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TEST REPORT

Test Result :	PASS *
Date of Issue:	2023/10/20
Date of Test:	2023/09/11 to 2023/09/29
Date of Receipt:	2023/09/08
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
FCC ID:	R9C-CPH2599
Trade Mark:	OPPO
Model No.:	CPH2599
EUT Description:	Mobile Phone
Address of Manufacturer:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Applicant:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Applicant:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Application No.:	XEWM2309000451RG

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Pore Tom

Peter Tan Regulatory Technical Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023/10/20		Original

Prepared By	leah chen	
	(Leah Chen) / Test Engineer	
Checked By	Andy Yao	
	(Andy Yao) /Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty Cycle		ANSI C63.10-2020 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Applicant:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Manufacturer:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.		
Address: 1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyu Road, Fengdong New Town, Xi' an, Shaanxi China			
Post code:	710086		
Test engineer:	Qiang Zhang, Jacky Xue		

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC – Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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02.11b: 02.11g/n: 02.11VHT:	DSSS (DBP OFDM (BPS OFDM (BPS	PSK, DQPSK SK, QPSK, 1	, CCK)	
)2.11g/n:)2.11VHT:	OFDM (BPS OFDM (BPS	SK, QPSK, 1	. ,	
)2.11VHT:	OFDM (BPS		6QAM, 64QAM)	
)2 11av:		OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
802.11ax: OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM 1024QAM)			QPSK, 16QAM, 64QAM, 256QAM,	
802.11b/g/n(HT20)/VHT20/ax(HE20): 11 802.11n(HT40)/VHT40/ax(HE40): 7				
5MHz				
] SISO	802.11b/g/n	/VHT/ax		
⊠ MIMO 802.11n/VHT20/ax: 2Tx & 2Rx				
⊠ Diversity 802.11b/g: 2Tx & 2Rx				
Fixed Internal Antenna				
JBi(Ant9); 00	dBi(Ant10)			
Note: The antenna gain are derived from the gain information report provided by the manufacturer.				
1.2dB				
x lk	ed Interna Bi(Ant9); 0 te: e antenna anufacturer	ed Internal Antenna Bi(Ant9); 0dBi(Ant10) te: e antenna gain are deriv anufacturer.	ed Internal Antenna Bi(Ant9); 0dBi(Ant10) Ite: e antenna gain are derived from the anufacturer.	

3.4 General Description of EUT

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	Operation Frequency of each channel (802.11b/g/n HT20 / VHT20 /ax HE20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
	Operation Frequency of each channel (802.11n HT40 / VHT40 /ax HE40)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				
Remark:			•				

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11 b/g/n (HT20) /(VHT20) /ax (HE20)	Frequency for 802.11n (HT40)/(VHT40)/ax(HE40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz



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3.5 Test Environment and Mode

Environment Parameter	96~101 kPa Selected Values During Tests			
Relative Humidity	40-60 % RH Ambient			
Value	Temperature(℃)	Voltage(V)		
NTNV	NTNV 22~25 3.89			
Remark:				
NV: Normal Voltage				
NT: Normal Temperature				

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11b	1 Mbps	2 Mbps
802.11g	6 Mbps	12 Mbps
802.11n (HT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11n (HT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11 (VHT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11 (VHT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ax (HE 20)	MCS0 (8 Mbps)	MCS0 (16 Mbps)
802.11ax (HE 40)	MCS0 (16 Mbps)	MCS0 (32 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

-				
Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)			
15.203 requirement:				
An intentional radiator shall b	e designed to ensure that no antenna other than that furnished by the			
responsible party shall be use	ed with the device. The use of a permanently attached antenna or of an			
antenna that uses a unique c	oupling to the intentional radiator, the manufacturer may design the unit			
so that a broken antenna can	be replaced by the user, but the use of a standard antenna jack or			
electrical connector is prohibi	ited.			
15.247(b) (4) requirement:				
The conducted output power limit specified in paragraph (b) of this section is based on the use of				
antennas with directional gair	ns that do not exceed 6 dBi. Except as shown in paragraph (c) of this			
section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output				
power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1),				
(b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the				
antenna exceeds 6 dBi.				
The antenna is Fixed Internal antenna is 0dBi(Ant9); 0dBi(A	Antenna and no consideration of replacement. The best case gain of the Ant10).*			

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , 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} ≤ 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 Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

ANT Gain9	ANT Gain10	Power DG	PSD DG	Power Limit	PSD Limit
(dBi)	(dBi)	(dBi)	(dBi)	Reduction(dB)	Reduction(dB)
0	0	0	3.01	0	

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Limit:	Frequency range (MHz)	Limit (dl	Limit (dBuV)	
	Frequency range (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 log	arithm of the frequency.		
Test Procedure:				



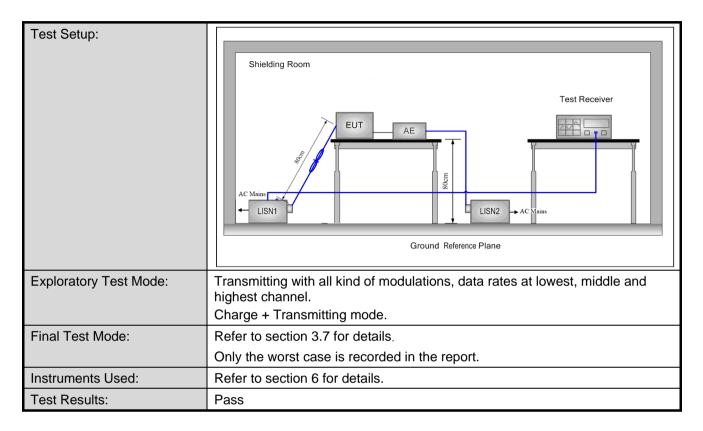
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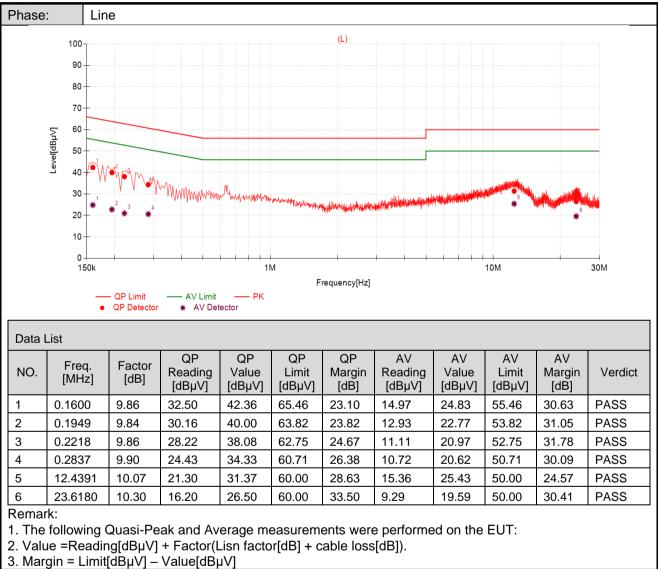
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.





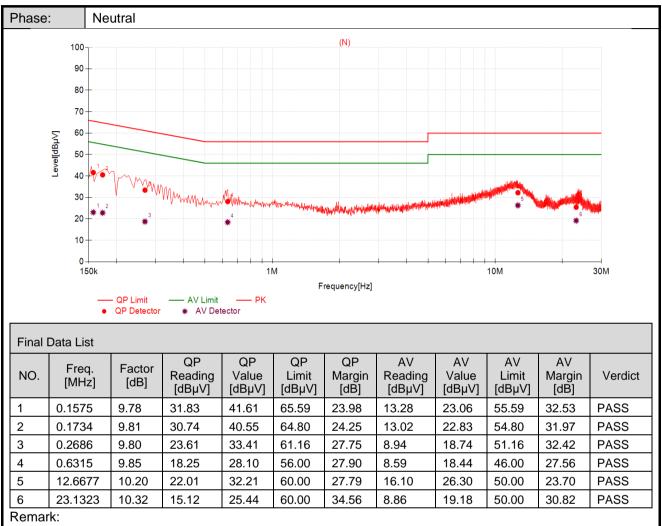
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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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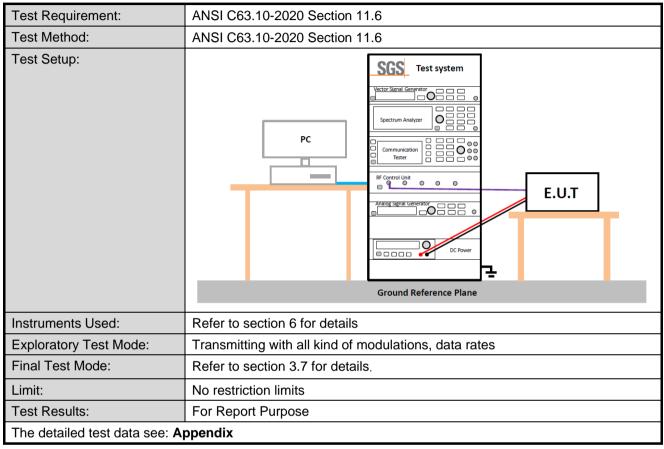
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4.3 Duty Cycle





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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10-2020 Section 11.9.1.2		
Test Setup:	ANSI C63. 10-2020 Section 11.9.1.2		
	* Test with power meter (Detector function: Peak)		
Test Instruments:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	30dBm		
Test Results:	Pass		
The detailed test data see: A	Appendix		



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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3		
Test Setup:	PC FC FC FC FC FC FC FC FC FC F		
Instruments Used:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	≥ 500 kHz for DTS Bandwidth		
Test Results:	Pass		
The detailed test data see: Appendix			



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Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	ANSI C63.10-2020 Section 11.10.2		
Test Setup:	PC PC Communication RF Control Unit RF Control Unit CC Power CC Power CC Power CC Power CC Power		
Test Instruments:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	≤8.00dBm/3kHz		
Test Results:	Pass		
The detailed test data see: Appendix			

4.6 Power Spectral Density



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10-2020 Section 11.11		
Test Setup:	PC		
Instruments Used:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Results:	Pass		
The detailed test data see: A	opendix		



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Test Requirement: 47 CFR Part 15C Section 15.247 (d) **Test Method:** ANSI C63.10-2020 Section 11.11 Test Setup: SGS Test system lector Signal Genera \cap PC RF Control Unit 0 0 0 E.U.T Analog Signal Ger DC Powe Ground Reference Plane Instruments Used: Refer to section 6 for details. Exploratory Test Mode: Transmitting with all kind of modulations, data rates Final Test Mode: Refer to section 3.7 for details. Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. **Test Results:** Pass The detailed test data see: Appendix

4.8 **RF Conducted Spurious Emissions**



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4.9 Radiated Spurious Emissions

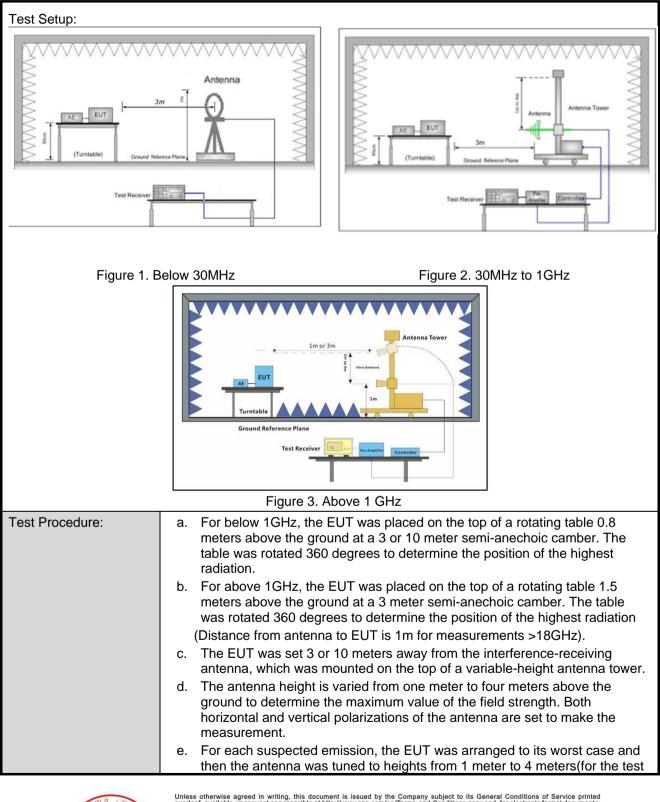
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10-2020 Section 11.12					
Test Site:	Measurement Distance:	3m (Semi-Anechoi	ic Chamber)			
Test Frequency:	9kHz ~ 25GHz					
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak	
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average	
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak	
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average	
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	
	Above 1GHz	Peak	1MHz	3MHz	Peak	
	Above IGHZ	Peak	1MHz	3MHz	Peak	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
	1.705MHz-30MHz	30	-	-	30	
	30MHz-88MHz	100	40.0	Quasi-peak	3	
	88MHz-216MHz	150	43.5	Quasi-peak	3	
	216MHz-960MHz	200	46.0	Quasi-peak	3	
	960MHz-1GHz	500	54.0	Quasi-peak	3	
	Above 1GHz 500 54.0 Average 3					
Remark: 15.35(b),Unless otherwise specified, the limit on peak radio free emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the tot emission level radiated by the device.				nit		



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	 frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. 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 k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. 		
Test Configuration:	Measurements below 30MHz RBW = 10 kHz VBW = 30 kHz 		
	Detector = Peak & Average & Quasi-peak		
	Trace mode = max hold		
	Measurements Below 1000MHz		
	• RBW = 120 kHz		
	• VBW = 300 kHz		
	Detector = Quasi-peak		
	Trace mode = max hold		
	Peak Measurements Above 1000 MHz		
	• RBW = 1 MHz		
	• VBW ≥ 3 MHz		
	 Detector = Peak 		
	Sweep time = auto		
	 Trace mode = max hold 		
	Average Measurements Above 1000MHz		
	• RBW = 1 MHz		
	• VBW = 10 Hz, when duty cycle is no less than 98 percent.		
	• VBW \geq 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.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.		
	Charge + Transmitting mode.		
Final Test Mode:	Refer to section 3.7 for details.		
	For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.		





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Instruments Used:	Refer to section 6 for details.	
Test Results:	Pass	
The detailed test data see: Appendix		



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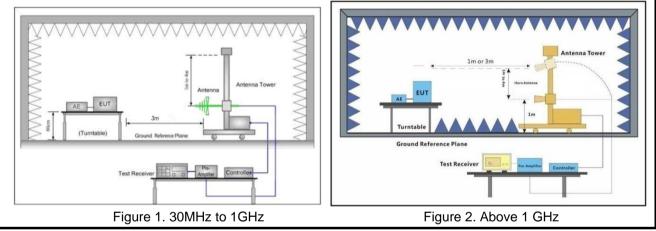
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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205			
Test Method:	ANSI C63.10-2020 Section 11.12			
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Limit:	Frequency Limit (dBuV/m) Remark			
	30MHz-88MHz	40.0	Quasi-peak	
	88MHz-216MHz	43.5	Quasi-peak	
	216MHz-960MHz	46.0	Quasi-peak	
	960MHz-1GHz	54.0	Quasi-peak	
	Above 1GHz	54.0	Average Value	
		74.0	Peak Value	

Test Setup:





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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters
	above the ground at a 3 or 10 meter semi-anechoic camber. The table was
	rotated 360 degrees to determine the position of the highest radiation.
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was
	rotated 360 degrees to determine the position of the highest radiation.
	c. The EUT was set 3 or 10 meters away from the interference-receiving
	antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest channel , the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for
	Transmitting mode, And found the X axis positioning which it is worse case.
T (0 f f	j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz
	• VBW = 300 kHz
	 Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	 RBW = 1 MHz
	• VBW ≥ 3 MHz
	• Detector = Peak
	• Sweep time = auto
	• Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	 VBW = 10 Hz, when duty cycle is no less than 98 percent.
	• VBW \geq 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + Transmitting mode.



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Final Test Mode:	Refer to section 3.7 for details.			
Instruments Used:	Refer to section 6 for details.			
Test Results:	Pass			
The detailed test data see: Appendix				



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸ GHz
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 0.2%
4	RF conducted power	± 0.21dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 4.6dB (9kHz to 30MHz)
		± 4.9dB (30MHz to 1GHz)
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15	
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15	
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR	
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR	
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/08/30	2024/08/29	
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15	
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2023/09/04	2024/09/03	

CE Test System						
Test Equipment Manufacturer		Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A	
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR	
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29	



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RSE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08	
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15	
Spectrum Analyzer	ROHDE& SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14	
Test receiver	ROHDE& SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29	
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27	
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27	
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22	
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR	
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR	
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR	
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR	
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14	
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29	
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29	
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR	
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25	



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant9	2412	8.000	2408.000	2416.000	0.5	PASS
	Ant10	2412	7.120	2408.440	2415.560	0.5	PASS
11b-CDD	Ant9	2437	7.520	2433.000	2440.520	0.5	PASS
	Ant10	2437	7.960	2433.040	2441.000	0.5	PASS
	Ant9	2462	7.560	2458.480	2466.040	0.5	PASS
	Ant10	2462	7.560	2458.480	2466.040	0.5	PASS
	Ant9	2412	16.080	2403.840	2419.920	0.5	PASS
	Ant10	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant9	2437	12.120	2430.160	2442.280	0.5	PASS
11g-CDD	Ant10	2437	15.400	2429.120	2444.520	0.5	PASS
	Ant9	2462	15.080	2454.480	2469.560	0.5	PASS
	Ant10	2462	14.080	2455.680	2469.760	0.5	PASS
	Ant9	2412	16.040	2403.480	2419.520	0.5	PASS
	Ant10	2412	17.560	2403.240	2420.800	0.5	PASS
11-20141140	Ant9	2437	13.880	2429.440	2443.320	0.5	PASS
11n20MIMO	Ant10	2437	15.440	2429.080	2444.520	0.5	PASS
	Ant9	2462	17.280	2453.480	2470.760	0.5	PASS
	Ant10	2462	15.960	2454.440	2470.400	0.5	PASS
	Ant9	2422	35.120	2404.480	2439.600	0.5	PASS
	Ant10	2422	32.560	2406.960	2439.520	0.5	PASS
11-10141140	Ant9	2437	33.760	2419.480	2453.240	0.5	PASS
11n40MIMO	Ant10	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant9	2452	36.160	2433.840	2470.000	0.5	PASS
	Ant10	2452	35.040	2434.480	2469.520	0.5	PASS
	Ant9	2412	14.720	2405.680	2420.400	0.5	PASS
	Ant10	2412	17.560	2403.240	2420.800	0.5	PASS
	Ant9	2437	14.480	2430.080	2444.560	0.5	PASS
11VHT20MIMO	Ant10	2437	16.280	2428.840	2445.120	0.5	PASS
	Ant9	2462	16.920	2453.840	2470.760	0.5	PASS
	Ant10	2462	13.120	2457.000	2470.120	0.5	PASS
	Ant9	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant10	2422	26.320	2413.200	2439.520	0.5	PASS
	Ant9	2437	22.560	2425.720	2448.280	0.5	PASS
11VHT40MIMO	Ant10	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant9	2452	35.920	2434.240	2470.160	0.5	PASS
	Ant10	2452	35.120	2434.480	2469.600	0.5	PASS
	Ant9	2412	16.560	2404.560	2421.120	0.5	PASS
	Ant10	2412	16.360	2404.440	2420.800	0.5	PASS
11-0004040	Ant9	2437	15.120	2429.440	2444.560	0.5	PASS
11ax20MIMO	Ant10	2437	15.000	2428.320	2443.320	0.5	PASS
	Ant9	2462	16.960	2454.520	2471.480	0.5	PASS
	Ant10	2462	18.000	2453.160	2471.160	0.5	PASS
	Ant9	2422	35.040	2405.760	2440.800	0.5	PASS
	Ant10	2422	35.520	2404.480	2440.000	0.5	PASS
	Ant9	2437	27.600	2420.680	2448.280	0.5	PASS
11ax40MIMO	Ant10	2437	35.680	2418.840	2454.520	0.5	PASS
	Ant9	2452	37.920	2433.120	2471.040	0.5	PASS
	Ant10	2452	37.600	2433.200	2470.800	0.5	PASS



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Test Graphs





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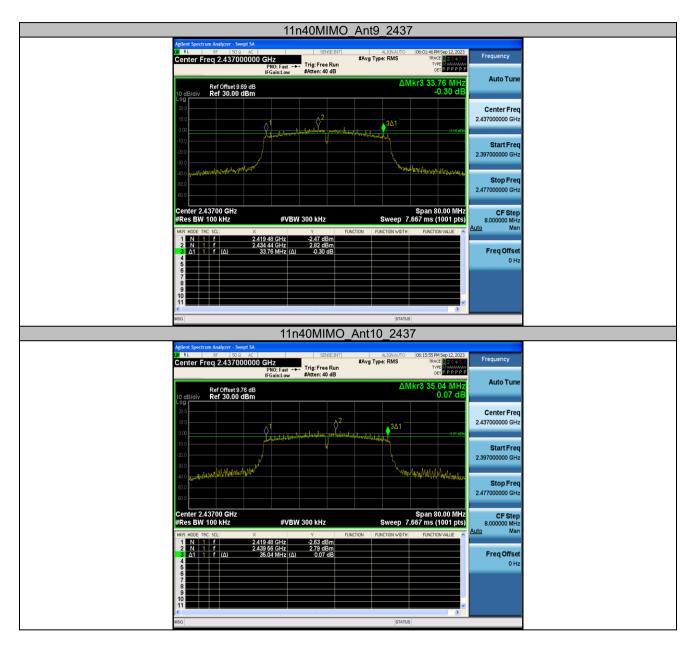


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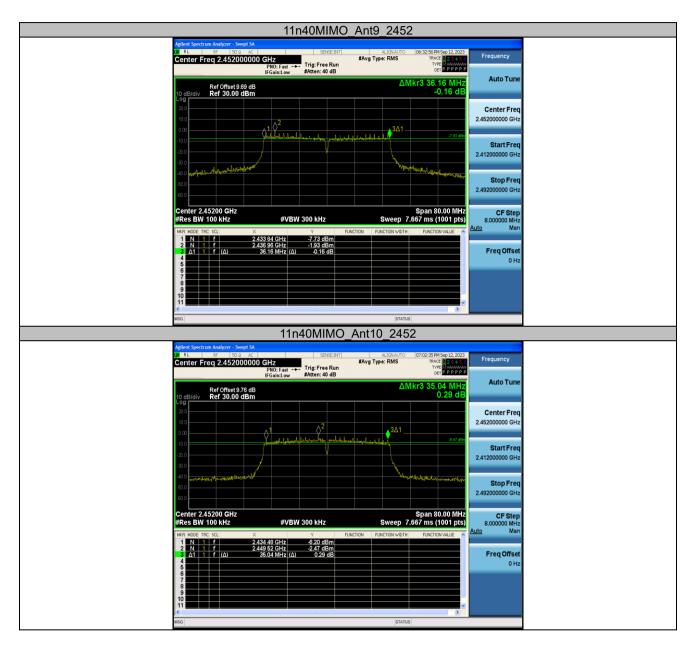


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