

FCC TEST REPORT

Test report
On Behalf of
Shenzhen Qizhilian Technology Co.,Ltd
For

Wireless Display Adapter
Model No.: Q4, Q4PLUS, Q2, Q2PLUS, Q6, Q6PLUS, Q8, Q8PLUS

FCC ID: 2AZDX-Q4

Prepared For: Shenzhen Qizhilian Technology Co.,Ltd

602, Building2, ZhongTaiTechnology park, Donghuan Road, Longhua street

Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: Jun. 23, 2022 ~ Jun. 30, 2022

Date of Report: Jun. 30, 2022

Report Number: HK2206232709-1E



TEST RESULT CERTIFICATION

Applicant's name	:	Shenzhen Qizhilian	Te	chnology	Co.	.,Lt	d
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602, Building2, ZhongTaiTechnology park, Donghuan Road,

Longhua street Shenzhen, China

Manufacture's Name...... Shenzhen Qizhilian Technology Co.,Ltd

602, Building2, ZhongTaiTechnology park, Donghuan Road,

Longhua street Shenzhen, China

Product description

Trade Mark: N/A

Product name.....: Wireless Display Adapter

Model and/or type reference .: Q4, Q4PLUS, Q2, Q2PLUS, Q6, Q6PLUS, Q8, Q8PLUS

FCC Rules and Regulations Part 15 Subpart C Section 15.247

Report No.: HK2206232709-1E

ANSI C63.10: 2013

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Date of Test

Test Result..... Pass

Testing Engineer :

(Gary Qian)

Technical Manager

Zden Hu

(Eden Hu)

Authorized Signatory:

Jason Www

(Jason Zhou)



TABLE OF CONTENTS

Report No.: HK2206232709-1E

1.	TEST RESULT SUMMARY	_
	1.1. TEST PROCEDURES AND RESULTS	5
	1.2. INFORMATION OF THE TEST LABORATORY	5
	1.3. MEASUREMENT UNCERTAINTY	6
2.	EUT DESCRIPTION	
	2.1. GENERAL DESCRIPTION OF EUT	7
	2.2. CARRIER FREQUENCY OF CHANNELS	
	2.3. OPERATION OF EUT DURING TESTING	8
	2.4. DESCRIPTION OF TEST SETUP	
3.	ENERA INFORMATION	10
	3.1. TEST ENVIRONMENT AND MODE	10
	3.2. DESCRIPTION OF SUPPORT UNITS	
4.	TEST RESULTS AND MEASUREMENT DATA	12
	4.1. CONDUCTED EMISSION	
	4.2. TEST RESULT	14
	4.3. MAXIMUM CONDUCTED OUTPUT POWER	16
	4.4. EMISSION BANDWIDTH	
	4.5. POWER SPECTRAL DENSITY	24
	4.6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT	31
	4.7. RADIATED SPURIOUS EMISSION MEASUREMENT	41
	4.8. ANTENNA REQUIREMENT	67
5.	PHOTOGRAPH OF TEST	68
•	DUOTOS OF THE FUT	70



** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jun. 30, 2022	Jason Zhou
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1. TEST RESULT SUMMARY

1.1. TEST PROCEDURES AND RESULTS

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247(b)(4)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247(b)(3)	PASS
6dB Emission Bandwidth	§15.247(a)(2)	PASS
Power Spectral Density	§15.247(e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

1.2. INFORMATION OF THE TEST LABORATORY

Shenzhen HUAK Testing Technology Co., Ltd. Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

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1.3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.71dB
2	RF power, conducted	±0.37dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.90dB
5,1110	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

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2. EUT DESCRIPTION

2.1. GENERAL DESCRIPTION OF EUT

Equipment:	Wireless Display Adapter
Model Name:	Q4
Series Model:	Q4PLUS, Q2, Q2PLUS, Q6, Q6PLUS, Q8, Q8PLUS
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample mode: Q4.
FCC ID:	2AZDX-Q4
Antenna Type:	External Antenna
Antenna Gain:	1dBi HUM TESTI
Operation frequency:	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz
Number of Channels:	802.11b/g/n20: 11CH 802.11n 40: 7CH
Modulation Type:	CCK/OFDM/DBPSK/DAPSK
Power Source:	DC 5V from USB
Power Rating:	DC 5V from USB

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2.2. CARRIER FREQUENCY OF CHANNELS

	Ch	annel List	For 802.11k	o/802.11g/8	302.11n (HT2	0)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452	-STING	

Channel List For 802.11n (HT40)								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
TING_	XTESTING (04	2427	07	2442	- TESTIN	WTE	
@ H		05	2432	08	2447	HILAK	Monage Home	
03	2422	06	2437	09	2452			

Note:

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:

2.3. OPERATION OF EUT DURING TESTING

Operating Mode

The mode is used: Transmitting mode for 802.11b/802.11g/802.11n (HT20)

Low Channel: 2412MHz Middle Channel: 2437MHz High Channel: 2462MHz

The mode is used: Transmitting mode for 802.11n (HT40)

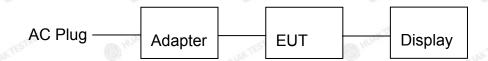
Low Channel: 2422MHz Middle Channel: 2437MHz High Channel: 2452MHz

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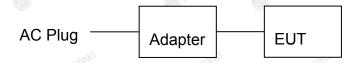


2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted and radiation below 1GHz testing:



Operation of EUT during radiation above 1GHz testing:



Adapter information Model: HW-059200CHQ

Input: 100-240V, 50-60Hz, 0.5A

Output: 5VDC, 2A

Display information Model: 24PFF3661/T3

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position

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3. ENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
est Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

STING	Mode	TESTING	TESTING	Data rate	3 165
	802.11b	HUAR	HUAN	1Mbps	W HILDER
is .	802.11g	TING		6Mbps	
	802.11n(H20)	HK TES	ESTING	6.5Mbps	STING
W HU	802.11n(H40)	W III	AKTE	13.5Mbps	HUAKTE

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting
Operation mode:	with modulation

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.



3.2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
(NG /	IG I HURK TESTI	I STING	I HUAY TESTIN	1 STING

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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4. TEST RESULTS AND MEASUREMENT DATA

4.1. CONDUCTED EMISSION

Test Specification

ost opcomounom	TIME TIME TIME				
Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
Limits:	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				
Test Setup:	Reference Plane 40cm 80cm Filter AC power E.U.T AC power EMI Receiver Remark E UT Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0 8m				
Test Mode:	Charging + transmitting with modulation				
Test Procedure:	 Charging + transmitting with modulation The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 				
Test Result:	PASS				
A.					

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Test Instruments

	Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	Feb. 17, 2023		
LISN	R&S	ENV216	HKE-002	Feb. 18, 2022	Feb. 17, 2023		
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 18, 2022	Feb. 17, 2023		
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	_{MCTES} THE N/A	N/A		

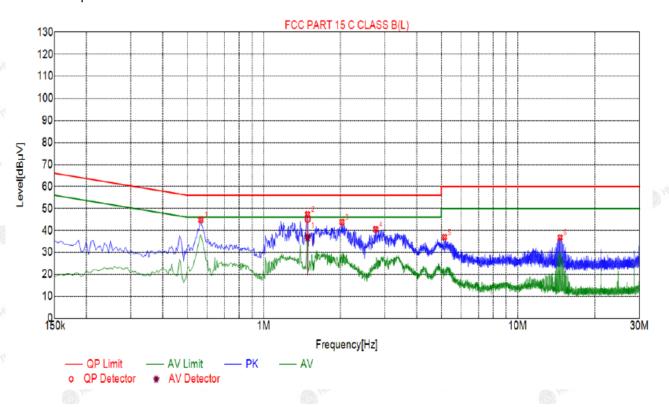
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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4.2. TEST RESULT

Test Specification: Line



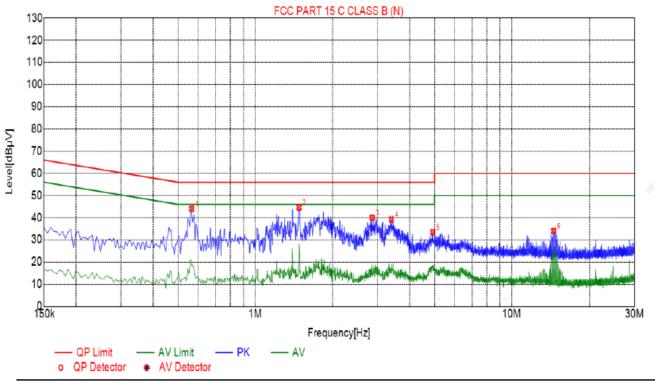
Sus	Suspected List							
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.5640	44.84	20.06	56.00	11.16	24.78	PK	L
2	1.4865	47.30	20.10	56.00	8.70	27.20	PK	L
3	2.0310	43.81	20.15	56.00	12.19	23.66	PK	L
4	2.7600	40.48	20.21	56.00	15.52	20.27	PK	L
5	5.1450	36.96	20.26	60.00	23.04	16.70	PK	L
6	14.5995	36.73	19.95	60.00	23.27	16.78	PK	L

	Final Data List											
100000	NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	ΑV Reading [dBμV]	Туре
	1	1.4879	20.10	45.10	56.00	10.90	25.00	36.91	46.00	9.09	16.81	L

Remark: Margin = Limit — Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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Test Specification: Neutral



Sus	Suspected List							
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.5640	44.05	20.06	56.00	11.95	23.99	PK	N
2	1.4820	44.63	20.10	56.00	11.37	24.53	PK	N
3	2.8590	39.99	20.21	56.00	16.01	19.78	PK	N
4	3.3945	39.19	20.24	56.00	16.81	18.95	PK	N
5	4.9200	33.45	20.26	56.00	22.55	13.19	PK	N
6	14.4960	34.02	19.95	60.00	25.98	14.07	PK	N

Remark: Margin = Limit – Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor



4.3. MAXIMUM CONDUCTED OUTPUT POWER

Test Specification

Test Requirement:	FCC Part15 C Section 15	5.247 (b)(3)	V TESTI	
Test Method:	KDB 558074	O HOME	MONTH HOME	
Limit:	30dBm	OK TESTING	فالم	
Test Setup:	Power meter	EUT	MURK TESTING	
Test Mode:	Transmitting mode with n	nodulation		
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB 558074 D01 15.247 Meas Guidance v05r02. 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. Set to the maximum power setting and enable the EUT transmit continuously. Measure the Peak output power and record the results in the test report. 			
Test Result:	PASS	O HOM	0 "	

Test Instruments

ATTAL ATTAL	Par and a second	W Mr.	ATTAL PARTY	William A.A.	Alle Pro		
	RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023		
Power meter	Agilent	E4419B	HKE-085	Feb. 18, 2022	Feb. 17, 2023		
Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	Feb. 17, 2023		
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test Data

- TIME	TING	-11NB	TOP TOP
KTES.	HUAKTES.	TX 802.11b Mode	HUAKTES!
Test	Frequency	Maximum Peak Conducted Output Power	LIMIT
Channel	(MHz)	(dBm)	dBm
CH01	2412	18.81	30
CH06	2437	17.44	30
CH11	2462	16.90	30 HUM TES I
		TX 802.11g Mode	
CH01	2412	16.04	30
CH06	2437	17.32	JUAN TEST
CH11	2462	17.66	30
	TESTING	TX 802.11n20 Mode	TESTING
CH01	2412	16.97	30
CH06	2437	18.19	30
CH11	2462	17.83	30
1		TX 802.11n40 Mode	9
CH03	2422	18.67	30
CH06	2437	18.53	JUAN TES 30 HUAN TES
CH09	2452	17.05	30

4.4. EMISSION BANDWIDTH

Test Specification

Test Requirement:	FCC Part15 C Section 1	5.247 (a)(2)	V TESTI		
Test Method:	KDB 558074	(HOVE	MON.		
Limit:	>500kHz	AK TESTING	فاله		
Test Setup:	Spectrum Analyzer	EUT	ANG HUAKTES IN		
Test Mode:	Transmitting mode with r	modulation			
Test Procedure:	15.247 Meas Guidan 2. Set to the maximum p EUT transmit continu 3. Make the measureme resolution bandwidth Video bandwidth (VB an accurate measure	 The testing follows FCC KDB Publication 558074 DO 15.247 Meas Guidance v05r02. Set to the maximum power setting and enable the EUT transmit continuously. 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 6dB bandwidth must be greater than 500 kHz. 			
Test Result:	PASS	● HUA	0		

Test Instruments

and Ho.	NO.	a HO.	AD HO.	AD.	ALL PIO
		RF Te	est Room		
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test data

Toot obennel	6dB Emission Bandwidth (MHz)						
Test channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)			
Lowest	10.08	16.32	16.68	35.04			
Middle	10.04	15.92	16.68	35.52			
Highest	10.08	16.08	17.16	35.92			
Limit:	HUAKTES		>500k				
Test Result:	TAK.	TESTING WUAKTESTI	PASS	THE WANTESTING			

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel



802.11g Modulation

Lowest channel



Middle channel



Highest channel





802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel



802.11n (HT40) Modulation

Lowest channel



Middle channel



Highest channel



4.5. POWER SPECTRAL DENSITY

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Analyzer EUI
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 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. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = Peak, Sweep time = auto couple. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS WAR TO THE THE STATE OF TH

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Test Instruments

10.) P	10.	- 11/1/h	101	- 11) hr.			
RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023			
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 18, 2022	Feb. 17, 2023			
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023			
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



Test data

EUT Set Mode	Channel	Result (dBm/30kHz)	Result (dBm/3kHz)
	Lowest	0.31	-9.69
802.11b	Middle	1.35	-8.65
	Highest	0.84	-9.16
	Lowest	-6.9	-16.9
802.11g	Middle	-5.79	-15.79
	Highest	-5.76	-15.76
	Lowest	-4.92	-14.92
802.11n(H20)	Middle	-4.75	-14.75
	Highest	-5.35	-15.35
	Lowest	-7.57	-17.57
802.11n(H40)	Middle	-8.03	-18.03
	Highest	-7.8	-17.8
PSD test result (dBm/	3kHz)= PSD tes	t result (dBm/30kHz)-10	
Limit: 8dBm/3kHz			
Test Result:	MAKTES	PASS	
404			

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



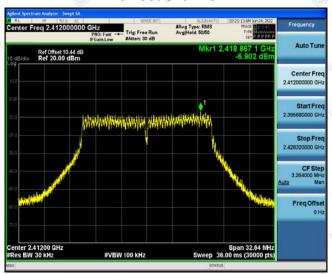
Highest channel



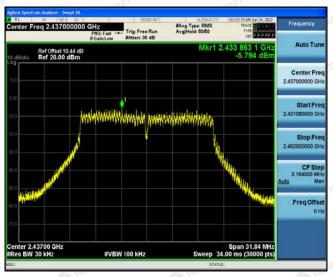


802.11g Modulation

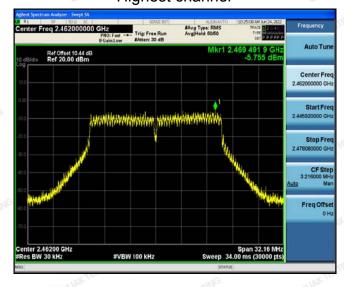
Lowest channel



Middle channel

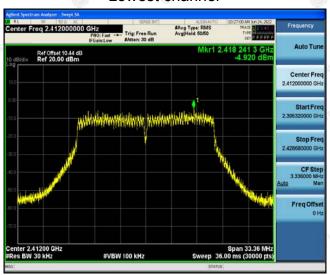


Highest channel

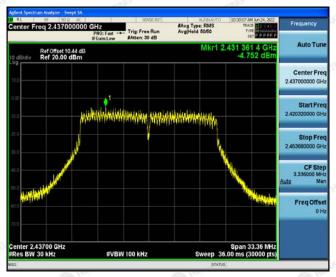


802.11n (HT20) Modulation

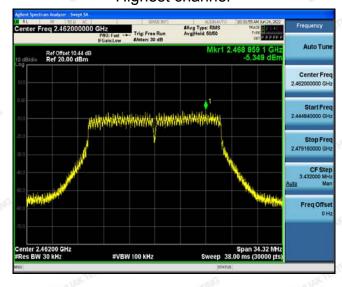
Lowest channel



Middle channel



Highest channel

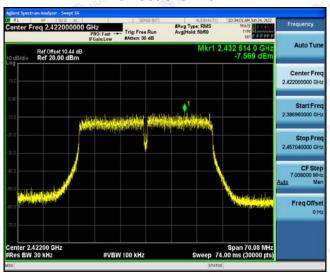


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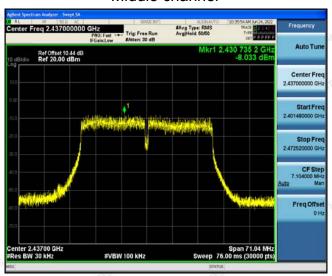


802.11n (HT40) Modulation

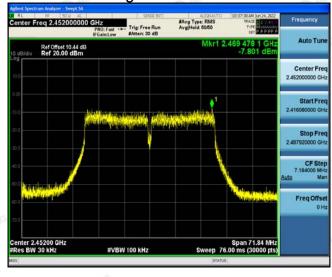
Lowest channel



Middle channel



Highest channel



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4.6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT

Test Specification

rest Method: KDB558074 In any 100 kHz bandwidth outside of the author	
- Albert	
frequency band, the emissions which fall in non-restricted bands shall be attenuated at least 20 30dB relative to the maximum PSD level in 100 kFRF conducted measurement and radiated emis which fall in the restricted bands, as defined in Se 15.205(a), must also comply with the radiated emilimits specified in Section 15.209(a).	the dB / lz by sions ction
est Setup: Spectrum Analyzer EUT	AK TESTIN
Transmitting mode with modulation	
1. The testing follows FCC KDB Publication 558074 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the specianalyzer by RF cable and attenuator. The path lower 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 Detect Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency be shall be attenuated by at least 20 dB relative to a maximum in-band peak PSD level in 100 kHz where was maximum peak conducted output power procedused. If the transmitter complies with the conductive power limits based on the use of RMS averaging a time interval, the attenuation required under the 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 excludagainst the limit line in the operating frequency is	trum oss tor. and he nen ure is ted over is
est Result: PASS	



Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023		
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 18, 2022	Feb. 17, 2023		
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 18, 2022	Feb. 17, 2023		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023		
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A		

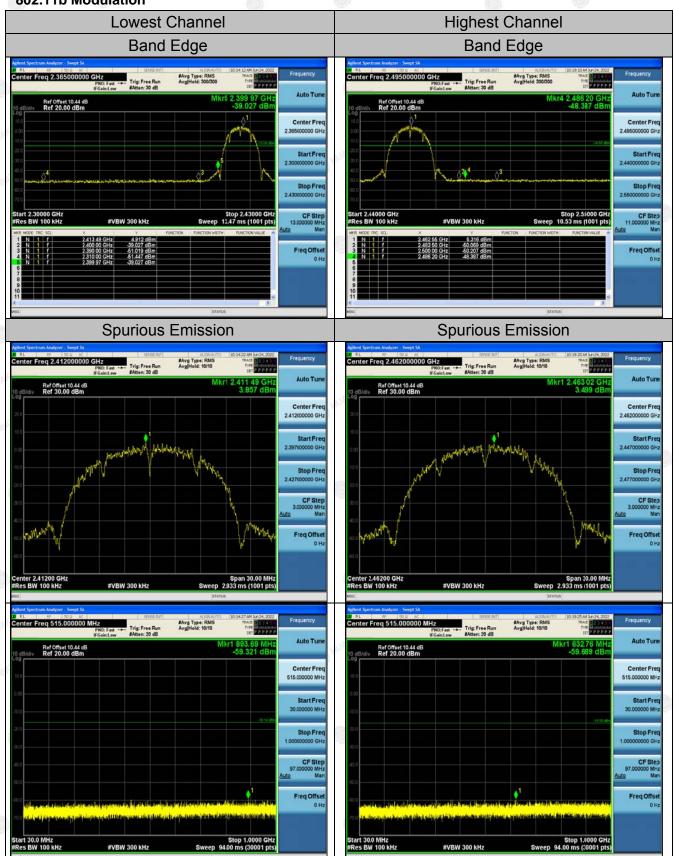
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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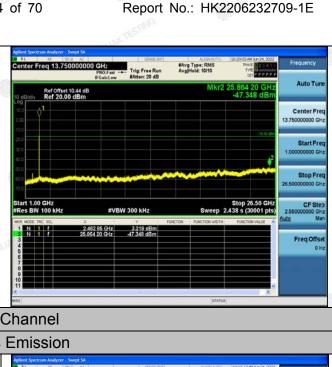


Test Data

802.11b Modulation



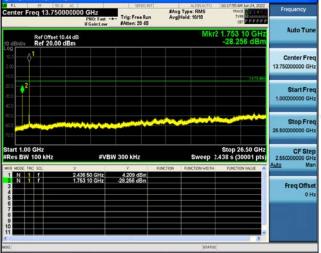
Ref Offset 10.44 dB Ref 20.00 dBm



Middle Channel Spurious Emission

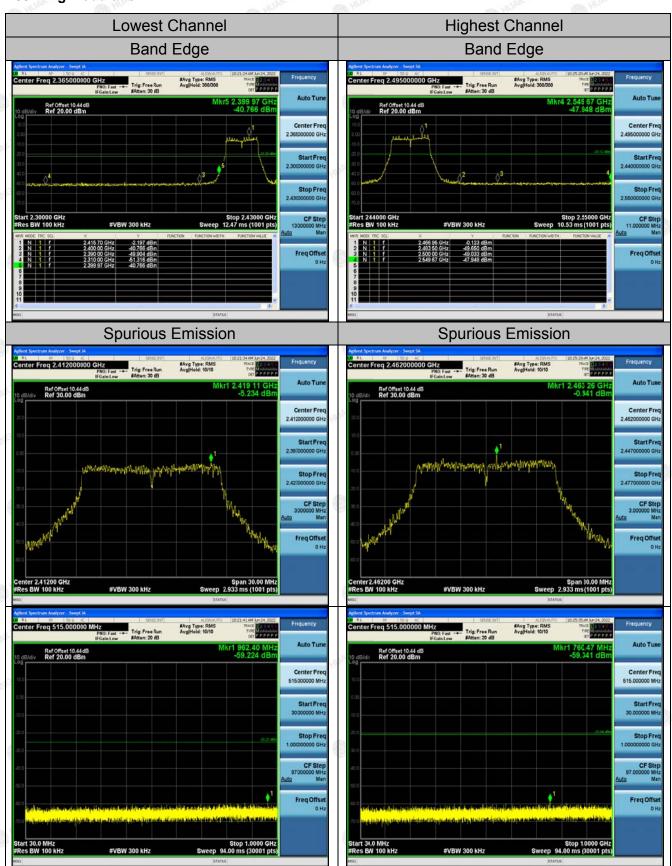
#Avg Type: RMS Avg|Hold: 10/10



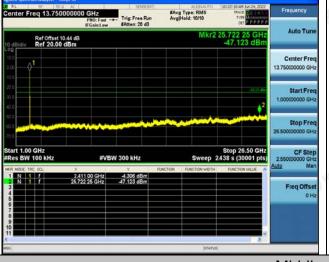


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802.11g Modulation

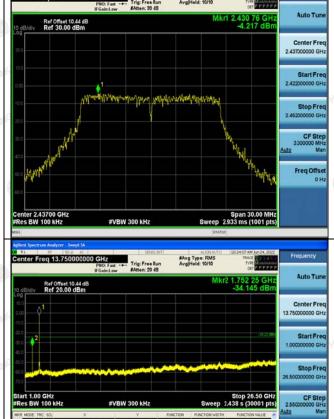


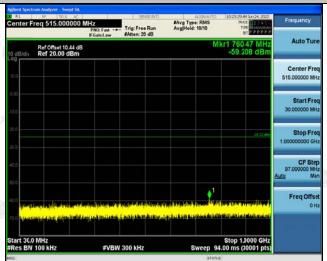


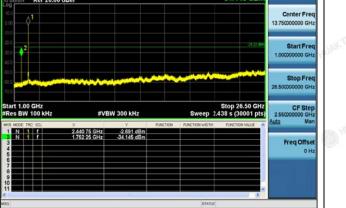


Middle Channel

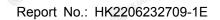
Spurious Emission





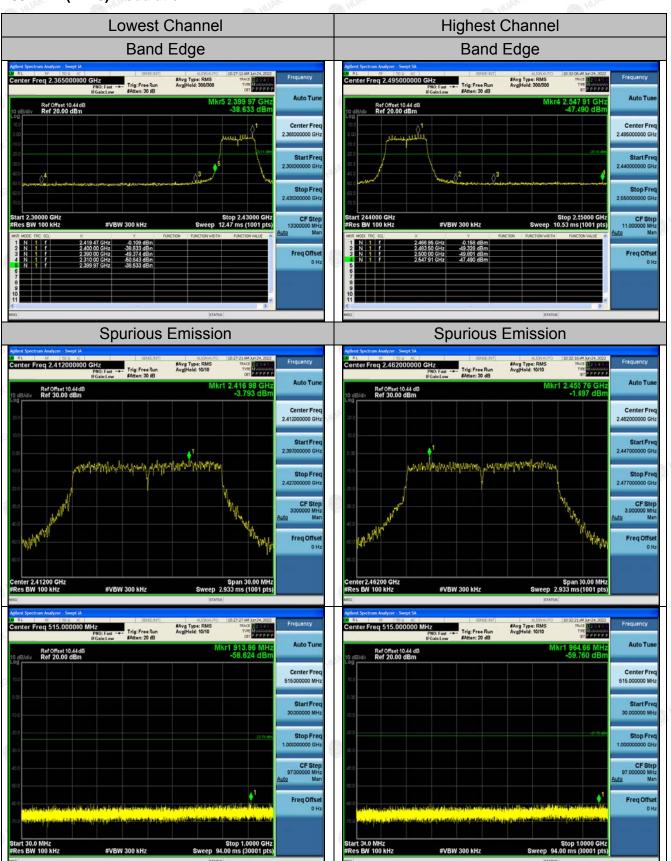


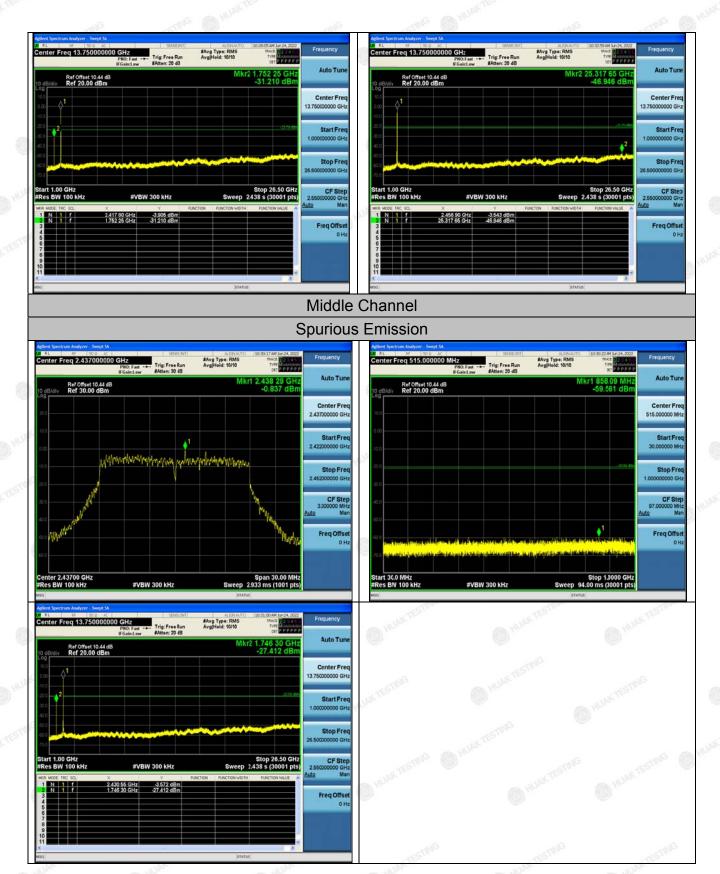
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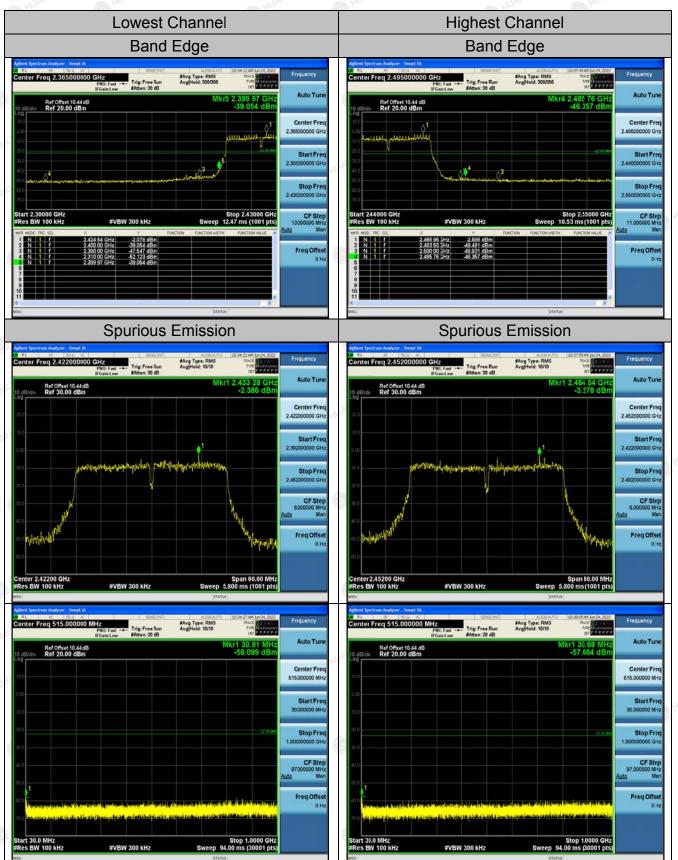
802.11n (HT20) Modulation

HUAK TESTING



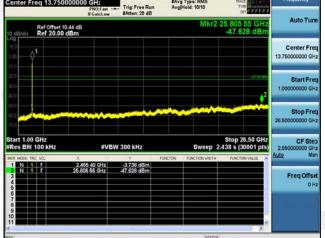


802.11n (HT40) Modulation



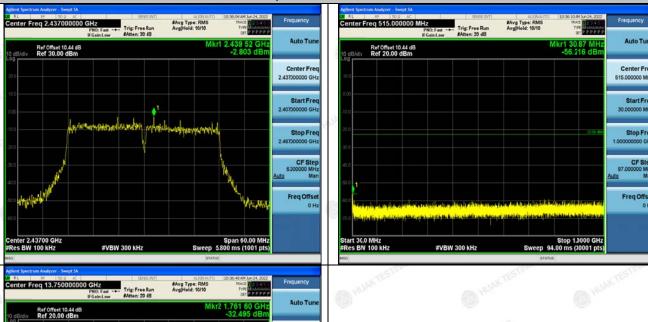






Middle Channel

Spurious Emission





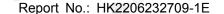
4.7. RADIATED SPURIOUS EMISSION MEASUREMENT

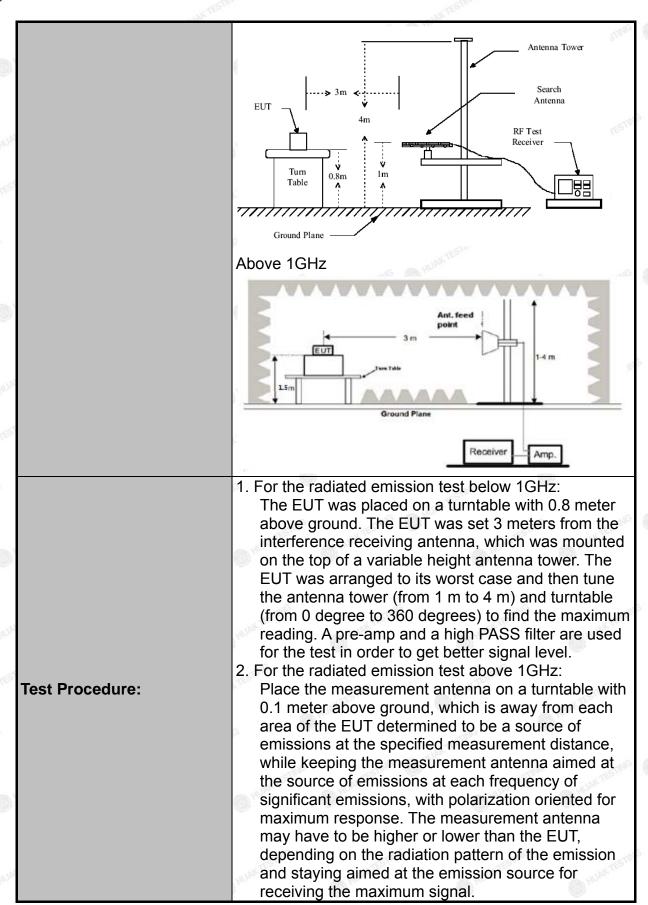
Test Specification

Test Requirement:	FCC Part15	C Secti	on '	15.209	TESTI	NG.	TESTI
Test Method:	ANSI C63.10): 2013		6	HUAN		HUAN
Frequency Range:	9 kHz to 25 (GHz			-cTING		
Measurement Distance:	3 m	TESTING		AN HU	AKTE		TESTING
Antenna Polarization:	Horizontal &	Vertica	l	(000)		6	HONE
Operation mode:	Transmitting	mode v	vith	modulati	ion		
	Frequency	Detect	or	RBW	VBW	STANCE	Remark
	9kHz- 150kHz	Quasi-p	eak	200Hz	1kHz	Quas	si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-p	eak	9kHz	30kHz	Quas	si-peak Value
	30MHz-1GHz	Quasi-p	eak	120KHz	300KHz	Quas	si-peak Value
	TING	Peak		1MHz	3MHz	_	eak Value
	Above 1GHz	Peak		1MHz	10Hz	Ave	erage Value
	Frequency			Field Stre	, 1C1	Measurement Distance (meters)	
	0.009-0.4	190		2400/F(k	(Hz)		300
	0.490-1.7			24000/F(KHz)			30
	1.705-3			30	NG-	(9)	30
	30-88			100 150	11/2		3
1 5 54 -	88-216					-MG	3
Limit:	216-960			200	, OK F	STILL	3
	Above 960			500	(CD) HO		3
	Frequency	II Fredilency I		eld Strength Dist		nce Detector	
	Above 1GHz	WAK!	Į.	500	WAK 3		Average
	Above 1G112		5	000	3		Peak
Test setup:	For radiated	Tu	arn Table	below 30	RX Ant		A AND AND AND AND AND AND AND AND AND AN
	30MHz to 10	SHz					

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	The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 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. 6. 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.
ITest results:	IPASS



Test Instruments

	Rad	iated Emission	Test Site (966	5)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESCI-7	HKE-010	Feb. 18, 2022	Feb. 17, 2023
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	Feb. 17, 2023
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 18, 2022	Feb. 17, 2023
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	Feb. 17, 2023
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 18, 2022	Feb. 17, 2023
Preamplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	Feb. 17, 2023
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	Feb. 17, 2023
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 18, 2022	Feb. 17, 2023
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 18, 2022	Feb. 17, 2023
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 18, 2022	Feb. 17, 2023
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 18, 2022	Feb. 17, 2023
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable	Times	9kHz-1GHz	HKE-117	Feb. 18, 2022	Feb. 17, 2023
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 18, 2022	Feb. 17, 2023

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test Data

All the test modes completed for test. only the worst result of (802.11b at 2412MHz) was reported as below:

Below 1GHz

Horizontal



QP Detector

Suspe	Suspected List											
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity			
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	63.0130	-14.25	45.75	31.50	40.00	8.50	100	189	Horizontal			
2	138.7487	-17.61	48.16	30.55	43.50	12.95	100	91	Horizontal			
3	211.5716	-14.24	48.14	33.90	43.50	9.60	100	340	Horizontal			
4	322.2623	-11.39	47.58	36.19	46.00	9.81	100	31	Horizontal			
5	400.9109	-9.14	46.65	37.51	46.00	8.49	100	359	Horizontal			
6	842.7027	-1.06	40.48	39.42	46.00	6.58	100	79	Horizontal			

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level



Vertical



Suspe	Suspected List											
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity			
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	128.0681	-16.30	54.93	38.63	43.50	4.87	100	309	Vertical			
2	197.9780	-15.80	55.22	39.42	43.50	4.08	100	139	Vertical			
3	278.5686	-12.32	48.80	36.48	46.00	9.52	100	3	Vertical			
4	355.2753	-10.82	49.29	38.47	46.00	7.53	100	171	Vertical			
5	424.2142	-8.24	44.94	36.70	46.00	9.30	100	183	Vertical			
6	636.8569	-4.14	43.80	39.66	46.00	6.34	100	44	Vertical			

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin =

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

	Frequency (MHz)	Leve	l@3m (dBµV/m)	Limit@3m (dBµV/m)		
NG		TING		TING		
	CTTNG	JAK TEN	CTING	THUAK TES	CTING	
	HUAKTE-		THE HOLD AND AND AND AND AND AND AND AND AND AN		HUAKTES	
	<u></u>	-16		.,G		

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. Theemission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



Above 1GHz

RADIATED EMISSION TEST

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.76	-3.64	49.12	74	-24.88	peak
4824	42.35	-3.64	38.71	54	-15.29	AVG
7236	51.24	-0.95	50.29	74	-23.71	peak
7236	42.73	-0.95	41.78	54	-12.22	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	57.02	-3.64	53.38	74	-20.62	peak
4824	35.84	-3.64	32.2	54	-21.8	AVG
7236	53.03	-0.95	52.08	74	-21.92	peak
7236	32.56	-0.95	31.61	54	-22.39	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	56.19	-3.51	52.68	74	-21.32	peak
4874	39.05	-3.51	35.54	54	-18.46	AVG
7311	54.93	-0.82	54.11	74	-19.89	peak
7311	37.05	-0.82	36.23	54	· -17.77	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	
4874	54.39	-3.51	50.88	74	-23.12	peak	
4874	42.31	-3.51	38.8	54	-15.2	AVG	
7311	51.56	-0.82	50.74	74	-23.26	peak	
7311	39.52	-0.82	38.7	54	-15.3	AVG	

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	55.16	-3.43	51.73	74	-22.27	peak
4924	44.42	-3.43	40.99	54	-13.01	AVG
7386	51.72	-0.75	50.97	74	-23.03	peak
7386	41.37	-0.75	40.62	54	-13.38	AVG

Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
52.41	-3.43	48.98	74	-25.02	peak
47.16	-3.43	43.73	54	-10.27	AVG
50.55	-0.75	49.8	74	-24.2	peak
43.71	-0.75	42.96	54	-11.04	AVG
	(dBμV) 52.41 47.16 50.55	(dBµV) (dB) 52.41 -3.43 47.16 -3.43 50.55 -0.75	(dBμV) (dB) (dBμV/m) 52.41 -3.43 48.98 47.16 -3.43 43.73 50.55 -0.75 49.8	(dBμV) (dB) (dBμV/m) (dBμV/m) 52.41 -3.43 48.98 74 47.16 -3.43 43.73 54 50.55 -0.75 49.8 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 52.41 -3.43 48.98 74 -25.02 47.16 -3.43 43.73 54 -10.27 50.55 -0.75 49.8 74 -24.2

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.45	-3.64	52.81	74	-21.19	peak
4824	44.49	-3.64	40.85	54	-13.15	AVG
7236	54.06	-0.95	53.11	74	-20.89	peak
7236	42.58	-0.95	41.63	54 Jassania	-12.37	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	53.07	-3.64	49.43	74	-24.57	peak
4824	33.24	-3.64	29.6	54	-24.4	AVG
7236	51.57	-0.95	50.62	74	-23.38	peak
7236	31.46	-0.95	30.51	54	-23.49	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	54.58	-3.51	51.07	74	-22.93	peak
4874	45.14	-3.51	41.63	54	-12.37	AVG
7311	53.55	-0.82	52.73	74	-21.27	peak
7311	41.03	-0.82	40.21	54	-13.79	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	56.68	-3.51	53.17	74	-20.83	peak
4874	43.05	-3.51	39.54	54	-14.46	AVG
7311	52.89	-0.82	52.07	74	-21.93	peak
7311	40.64	-0.82	39.82	54	-14.18	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	57.53	-3.43	54.1	74	-19.9	peak
4924	46.24	-3.43	42.81	54	-11.19	AVG
7386	56.91	-0.75	56.16	74 min	-17.84	peak
7386	43.08	-0.75	42.33	54	-11.67	AVG

Vertical:

5/5		CESSES			CE2093	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	56.43	-3.43	53	74	-21	peak
4924	44.49	-3.43	41.06	54	-12.94	AVG
7386	52.87	-0.75	52.12	74	-21.88	peak
7386	38.72	-0.75	37.97	54	-16.03	AVG
		-0/16	•	4	G	•

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	[©] (dBμV/m)	(dB)	Туре
4824	52.29	-3.64	48.65	74	-25.35	peak
«° 4824	45.48	-3.64	41.84	54	-12.16	AVG
7236	50.64	-0.95	49.69	74	-24.31	peak
7236	43.18	-0.95	42.23	54	-11.77	AVG

Vertical:

dBμV)	(dB)	(JD) (()	G	G	7 >
	()	(dBµV/m)	(dBµV/m)	(dB)	Туре
54.08	-3.64	50.44	74	-23.56	peak
45.16	-3.64	41.52	54	-12.48	AVG
52.39	-0.95	51.44	74	-22.56	peak
40.17	-0.95	39.22	54	-14.78	AVG
	45.16 52.39	45.16 -3.64 52.39 -0.95	45.16 -3.64 41.52 52.39 -0.95 51.44	45.16 -3.64 41.52 54 52.39 -0.95 51.44 74	45.16 -3.64 41.52 54 -12.48 52.39 -0.95 51.44 74 -22.56

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	52.37	-3.51	48.86	74.00	-25.14	peak
4874	40.54	-3.51	37.03	54.00	-16.97	AVG
7311	51.46	-0.82	50.64	74.00	-23.36	peak
7311	39.25	-0.82	38.43	54.00	-15.57	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	54.06	-3.51	50.55	74.00	-23.45	peak
4874	45.98	-3.51	42.47	54.00	-11.53	AVG
7311	52.05	-0.82	51.23	74.00	-22.77	peak
7311	43.29	-0.82	42.47	54.00	-11.53	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.





HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
53.24	-3.43	49.81	74	-24.19	peak
42.66	-3.43	39.23	54	-14.77	AVG
51.36	-0.75	50.61	74	-23.39	peak
40.66	-0.75	39.91	54	-14.09	AVG
	(dBµV) 53.24 42.66 51.36	(dBμV) (dB) 53.24 -3.43 42.66 -3.43 51.36 -0.75	(dBμV) (dB) (dBμV/m) 53.24 -3.43 49.81 42.66 -3.43 39.23 51.36 -0.75 50.61	(dBμV) (dB) (dBμV/m) (dBμV/m) 53.24 -3.43 49.81 74 42.66 -3.43 39.23 54 51.36 -0.75 50.61 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 53.24 -3.43 49.81 74 -24.19 42.66 -3.43 39.23 54 -14.77 51.36 -0.75 50.61 74 -23.39

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Tyre
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	52.17	-3.43	48.74	74	-25.26	peak
4924	42.82	-3.43	39.39	54	-14.61	AVG
7386	50.29	-0.75	49.54	74	-24.46	peak
7386	40.12	-0.75	39.37	54	-14.63	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data atau Tura ai
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	55.77	-3.63	52.14	74	-21.86	peak
4844	44.56	-3.63	40.93	54	-13.07	AVG
7266	52.93	-0.94	51.99	74	-22.01	peak
7266	42.38	-0.94	41.44	54	-12.56	AVG

Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
53.94	-3.63	50.31	74	-23.69	peak
40.89	-3.63	37.26	54	-16.74	AVG
52.73	-0.94	51.79	74	-22.21	peak
37.35	-0.94	36.41	54	-17.59	AVG
	(dBµV) 53.94 40.89 52.73	(dBµV) (dB) 53.94 -3.63 40.89 -3.63 52.73 -0.94	(dBμV) (dB) (dBμV/m) 53.94 -3.63 50.31 40.89 -3.63 37.26 52.73 -0.94 51.79	(dBμV) (dB) (dBμV/m) (dBμV/m) 53.94 -3.63 50.31 74 40.89 -3.63 37.26 54 52.73 -0.94 51.79 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 53.94 -3.63 50.31 74 -23.69 40.89 -3.63 37.26 54 -16.74 52.73 -0.94 51.79 74 -22.21

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency Reading	Reading Result	Factor Emission	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	58.42	-3.51	54.91	74	-19.09	peak
4874	43.96	-3.51	40.45	54	-13.55	AVG
7311	55.42	-0.82	54.6	74	-19.4	peak
7311	42.17	-0.82	41.35	54	··· -12.65	AVG

Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
53.28	-3.51	49.77	74	-24.23	peak
45.63	-3.51	42.12	54	-11.88	AVG
51.85	-0.82	51.03	74	-22.97	peak
42.59	-0.82	41.77	54	-12.23	AVG
	(dBµV) 53.28 45.63 51.85	(dBµV) (dB) 53.28 -3.51 45.63 -3.51 51.85 -0.82	(dBμV) (dB) (dBμV/m) 53.28 -3.51 49.77 45.63 -3.51 42.12 51.85 -0.82 51.03	(dBμV) (dB) (dBμV/m) (dBμV/m) 53.28 -3.51 49.77 74 45.63 -3.51 42.12 54 51.85 -0.82 51.03 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 53.28 -3.51 49.77 74 -24.23 45.63 -3.51 42.12 54 -11.88 51.85 -0.82 51.03 74 -22.97

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	cy Reading Result	Factor	Emission Level	Limits	Margin	Data at a Tank
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	53.13	-3.43	49.7	74	-24.3	peak
4904	41.75	-3.43	38.32	54	-15.68	AVG
7356	51.62	-0.75	50.87	74	-23.13	peak
7356	39.78	-0.75	39.03	54	-14.97	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	54.22	-3.43	50.79	74	-23.21	peak
4904	43.48	-3.43	40.05	54	-13.95	AVG
7356	51.82	-0.75	51.07	74 m/d	-22.93	peak
7356	40.03	-0.75	39.28	54	-14.72	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

Test Result of Radiated Spurious at Band edges

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	52.02	-5.81	46.21	74	-27.79	peak
2310.00	44.75	-5.81	38.94	54	-15.06	AVG
2390.00	50.51	-5.84	44.67	74	-29.33	peak
2390.00	41.91	-5.84	36.07	54	-17.93	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Determo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	55.91	-5.81	50.1	74	-23.9	peak
2310.00	45.14	-5.81	39.33	54	-14.67	AVG
2390.00	52.51	-5.84	46.67	74	-27.33	peak
2390.00	42.41	-5.84	36.57	54	-17.43	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Tune
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	53.37	-5.81	47.56	74	-26.44	peak
2483.50	40.94	-5.81	35.13	54	-18.87	AVG
2500.00	51.17	-6.06	45.11	74	-28.89	peak
2500.00	39.05	-6.06	32.99	54	-21.01	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.02	-5.81	48.21	74	-25.79	peak
2483.50	43.15	-5.81	37.34	54	-16.66	AVG
2500.00	52.36	-6.06	46.3	74	-27.7	peak
2500.00	40.06	-6.06	34	54	-20	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

TEICATION

Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data stan Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	52.08	-5.81	46.27	74	-27.73	peak
2310.00	42.19	-5.81	36.38	54	-17.62	AVG
2390.00	51.28	-5.84	45.44	74	-28.56	peak
2390.00	36.52	-5.84	30.68	54	-23.32	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
2310.00	51.92	-5.81	46.11	74	-27.89	peak
2310.00	42.16	-5.81	36.35	54	-17.65	AVG
2390.00	50.42	-5.84	44.58	74	-29.42	peak
2390.00	39.67	-5.84	33.83	54	-20.17	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: TX CH High (2462MHz)

Horizontal

		200		Margin	Data start Torre
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
54.24	-5.65	48.59	74	-25.41	peak
41.57	-5.65	35.92	54	-18.08	AVG
51.29	-5.65	45.64	74	-28.36	peak
39.91	-5.65	34.26	54	-19.74	AVG
	54.24 41.57 51.29	54.24 -5.65 41.57 -5.65 51.29 -5.65	54.24 -5.65 48.59 41.57 -5.65 35.92 51.29 -5.65 45.64	54.24 -5.65 48.59 74 41.57 -5.65 35.92 54 51.29 -5.65 45.64 74	54.24 -5.65 48.59 74 -25.41 41.57 -5.65 35.92 54 -18.08 51.29 -5.65 45.64 74 -28.36

Vertical:

F	requency	Reading Result	Factor	Emission Level	Limits	Margin	Data tax Ting
Car.	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
TING	2483.50	53.28	-5.65	47.63	74	-26.37	peak
	2483.50	40.81	-5.65	35.16	54 MAN	-18.84	AVG
	2500.00	50.28	-5.65	44.63	74	-29.37	peak
	2500.00	39.58	-5.65	33.93	54	-20.07	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	TING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	54.18	-5.81	48.37	74	-25.63	peak
2310.00	45.09	-5.81	39.28	54	-14.72	AVG
2390.00	50.22	-5.84	44.38	74	-29.62	peak
2390.00	42.05	-5.84	36.21	54	-17.79	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss –	Pre-amplifier.	Re Why	TING	STING

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	52.57	-5.81	46.76	74	-27.24	peak
2310.00	43.69	-5.81	37.88	54	-16.12	AVG
2390.00	50.14	-5.84	44.3	74	-29.7	peak
2390.00	41.75	-5.84	35.91	54	-18.09	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.06	-5.65	48.41	74	-25.59	peak
2483.50	43.31	-5.65	37.66	54	-16.34	AVG
2500.00	52.35	-5.65	46.7	74	-27.3	peak
2500.00	39.31	-5.65	33.66	54	-20.34	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	WAY TESTING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	52.76	-5.65	47.11	74	-26.89	peak
2483.50	44.55	-5.65	38.9	54	-15.1	AVG
2500.00	51.66	-5.65	46.01	74 AT TEST	-27.99	peak
2500.00	43.12	-5.65	37.47	54	-16.53	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	D. I. S. TING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	56.15	-5.81	50.34	74	-23.66	peak
2310.00	STING /	-5.81	TESTING	54	1	AVG
2390.00	64.27	-5.84	58.43	74	-15.57	peak
2390.00	45.98	-5.84	40.14	54	-13.86	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss -	Pre-amplifier.	G WINN	TING	ESTING (

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data stan Tina
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	54.12	-5.81	48.31	74	-25.69	peak
2310.00	ESTING /	-5.81	I TESTING	54	1	AVG
2390.00	60.78	-5.84	54.94	74	-19.06	peak
2390.00	51.32	-5.84	45.48	54	-8.52	AVG
- AIIG	-41/4 (E)(G)		117° OIL -	(0.502)	Olla-	-4119

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.23	-5.65	50.58	74 HUM	-23.42	peak
2483.50	1	-5.65	MUAK I	54	1	AVG
2500.00	54.78	-5.65	49.13	74	-24.87	peak
2500.00	TESTING OF	-5.65	SING / TESTIN	54	ISTING	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.32	-5.65	50.67	74	-23.33	peak
2483.50	1	-5.65	* 1	54	1 🔘	AVG
2500.00	54.18	-5.65	48.53	74	-25.47	peak
2500.00	HUANTED /	-5.65	AUAKTE	54	A HUAK TEST	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.





4.8. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

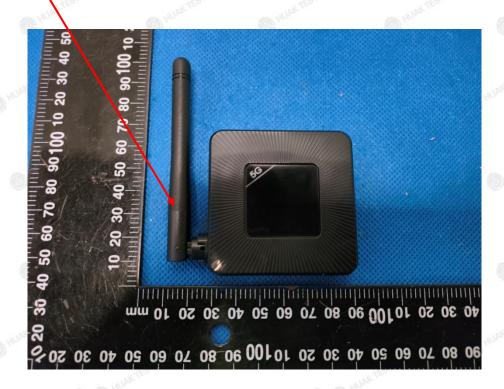
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a External Antenna, need professional installation. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 1dBi.

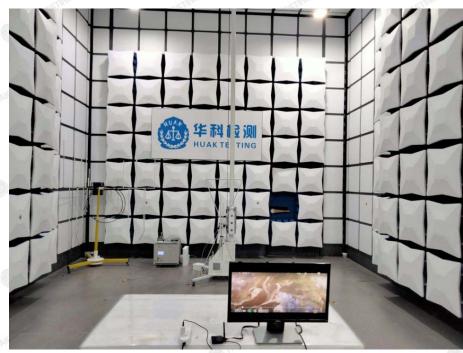
WIFI ANTENNA

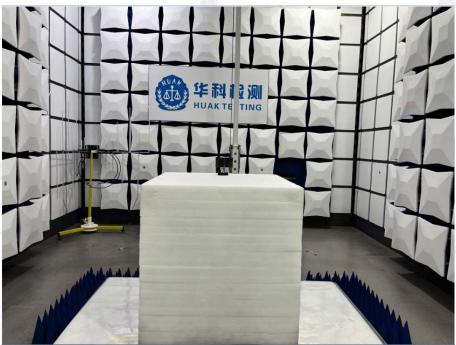




5. PHOTOGRAPH OF TEST

Radiated Emissions





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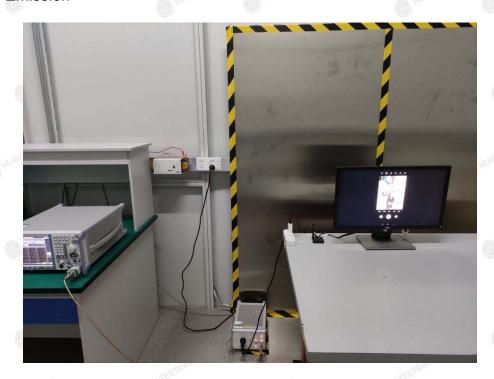
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





Conducted Emission



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PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

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