



FCC TEST REPORT

Test report
On Behalf of
Reveal Media Limited
For
Body Worn Camera
Model No.: D6

FCC ID: 2AL26-D6

Prepared For: Reveal Media Limited

Riverview House, 20 Old Bridge Street Hampton Wick, KT1 4BU United Kingdom

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

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: May. 26, 2021 ~Sept. 26, 2021

Date of Report: Sept. 26, 2021

Report Number: HK2105261641-3E

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Page 2 of 63 Report No.: HK2105261641-3E

TEST RESULT CERTIFICATION

Applicant's name Reveal Media Limited

Riverview House, 20 Old Bridge Street Hampton Wick, KT1 4BU

United Kingdom

Manufacture's Name...... Reveal Media Hong Kong Ltd.

Kona.

Product description

Trade Mark: Reveal Media

Product name...... Body Worn Camera

Model and/or type reference .: D6

Standards FCC Rules and Regulations Part 15 Subpart E Section 15.407

ANSI C63.10: 2013

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Date of Test

Date (s) of performance of tests May. 26, 2021 ~Sept. 26, 2021

Date of Issue...... Sept. 26, 2021

Test Result..... Pass

Prepared by:

Project Engineer

(sang Dian

Reviewed by:

Project Supervisor

lason Thou

Approved by:

Technical Director



TABLE OF CONTENTS

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. OPERATION FREQUENCY EACH OF CHANNEL	
	2.3. OPERATION OF EUT DURING TESTING	8
	2.4. DESCRIPTION OF TEST SETUP	9
3.	GENERA 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. MAXIMUM CONDUCTED OUTPUT POWER	16
	4.3. 6DB EMISSION BANDWIDTH	19
	4.4. 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	20
	4.5. POWER SPECTRAL DENSITY	27
	4.6. BAND EDGE	34
	4.7. SPURIOUS EMISSION	49
	4.8. FREQUENCY STABILITY MEASUREMENT	57
	4.9. ANTENNA REQUIREMENT	
5.	PHOTOGRAPHS OF TEST SETUP	61
6.	PHOTOS OF THE EUT	63



** Modified History **

- 1/L 1	. 16.	- W	- 100
Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Sept. 26, 2021	Jason Zhou
TNG	THE THE	TOG	G TNG

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1. TEST RESULT SUMMARY

1.1. TEST PROCEDURES AND RESULTS

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(e)	N/A
26dB Emission Bandwidth & 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Band edge	§15.407(b)/15.209/15.205	PASS
Radiated Emission	§15.407(b)/15.209/15.205	PASS
Frequency Stability	§15.407(g)	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 $y \pm U$, 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
_{MG} 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 71113	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:	Body Worn Camera
Model Name:	D6 MAKTE MAKTE
Serial No.:	N/A TESTING
Trade Mark:	Reveal Media
Model Difference:	N/A TESTING
FCC ID:	2AL26-D6
Operation Frequency:	IEEE 802.11a/n/ac(HT20) 5.180GHz-5.240GHz IEEE 802.11n/ac(HT40) 5.190GHz-5.230GHz IEEE 802.11ac(HT80) 5.210GHz
Modulation Technology:	IEEE 802.11a/n/ac
Modulation Type:	CCK/OFDM/DBPSK/DAPSK
Antenna Type:	Internal Antenna
Antenna Gain:	3.3dBi
Power Source:	DC 3.8V from battery or DC 5V from USB
Power Supply:	DC 3.8V from battery or DC 5V from USB



2.2. OPERATION FREQUENCY EACH OF CHANNEL

.11n(HT20)	000.44	(1.17.40) (
:(HT20)	802.11n(HT40)/ 802.11ac(HT40)		802.11ac(HT80)	
Frequency	Channel	Frequency	Channel	Frequency
5180	38	5190	42	5210
5200	46	5230	OW	
5220	JAKTES	TING	- WAKTES	TING
5240		HUAKTES	0	HUAKTE
	We G		TING	
HUAKTES		- W	JAKTES	
TESTING (I)	TESTING	K TESTING (I)	TEST	AC LESTING
	HUAN	HUM	HUAN	(HOL
	5180 5200 5220	Frequency Channel 5180 38 5200 46 5220	E(HT20) 802.11ac(HT40) Frequency Channel Frequency 5180 38 5190 5200 46 5230 5220 5220 5230	E(HT20) 802.11ac(HT40) 802.11ac Frequency Channel Frequency Channel 5180 38 5190 42 5200 46 5230 5220 46 5230

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

For 802.11a/n (HT20)/ac (HT20)

0.0 (1) 1 = 0)					
Band I (5150 - 5250 MHz)					
Channel Number	Channel	Frequency (MHz)			
36	Low	5180			
40	Mid	5200			
48	High	5240			

For 802.11n (HT40)/ac (HT40)

Band I (5150 - 5250 MHz)					
Channel Number	Channel	Frequency (MHz)			
38	Low	5190			
46	High	5230			

For 802.11ac (HT80)

W. M.				
Band I (5150 - 5250 MHz)				
Channel Number	Frequency (MHz)			
42	5210			

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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

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 Z position.

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3. GENERA INFORMATION

Operation mode:

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:		
Temperature:	25.0 °C	HUAK TES.
Humidity:	56 % RH	-
Atmospheric Pressure:	1010 mbar	A TESTING
Test Mode:		5105
Engineering mode:	Keep the EUT in continuous by select channel and modu value of duty cycle is 100%	ılations (The

The sample was placed 0.8m/1.5m for blow/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.

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.

TESTING	Mode	AK TESTING	Data rate	AK TESTIN
	802.11a	(i) HOLE	6 Mbps	HO
We	802.11n(HT20)	-n/G	MCS0	Sur
M HI	802.11n(HT40)	AUAK TES T	MCS0	TESTI
802.11	ac(HT20)/ac(HT40)/ac(HT80)		MCS0	
Final Tes	st Mode:			
Opera	ation mode:	Keep the EL	JT in continuous transm	itting

with modulation



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
1	IG / HUAKTESTI	I	HUAK 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, 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.



TEST RESULTS AND MEASUREMENT DATA

CONDUCTED EMISSION

4.1.1. Test Specification

FCC Part15 C Section 15.207					
ANSI C63.10:2013	ANSI C63.10:2013				
150 kHz to 30 MHz	O HUAN.	" LAK TESTING			
RBW=9 kHz, VBW=30	kHz, Sweep time	=auto			
Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	Average 56 to 46* 46 50			
Reference Plane 40cm 80cm Filter AC power E.U.T AC power EMI Receiver Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
TX Mode		-			
power through a line (L.I.S.N.). This pro impedance for the model of the model. The peripheral device power through a LIS coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interference emission, the relative the interface cables	e impedance stabilities a 500hm, easuring equipments are also connected with 500hm term diagram of the line are checked ce. In order to fine positions of equipments be changed.	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH hination. (Please test setup and d for maximum of the maximum ipment and all of ed according to			
PASS	HUAKTEST	HUAK TEST			
	ANSI C63.10:2013 150 kHz to 30 MHz RBW=9 kHz, VBW=30 Frequency range (MHz) 0.15-0.5 0.5-5 5-30 Reference 40cm E.U.T AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization National Test table height=0.8m TX Mode 1. The E.U.T and simulation plane (L.I.S.N.). This profit impedance for the modern through a line (L.I.S.N.). This profit impedance for the modern through a LISC coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interference mission, the relative the interface cables ANSI C63.10: 2013 of the conducted interference and the conducted interferenc	ANSI C63.10:2013 150 kHz to 30 MHz RBW=9 kHz, VBW=30 kHz, Sweep time Frequency range Limit (or (MHz) Quasi-peak 0.15-0.5 66 to 56* 0.5-5 56 5-30 60 Reference Plane Remark EU.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m TX Mode 1. The E.U.T and simulators are connect power through a line impedance stab (L.I.S.N.). This provides a 500hm impedance for the measuring equipment 2. The peripheral devices are also connect power through a LISN that provides coupling impedance with 500hm term refer to the block diagram of the photographs). 3. Both sides of A.C. line are checked conducted interference. In order to fire emission, the relative positions of equipment of the interface cables must be changed ANSI C63.10: 2013 on conducted measuring and conducted measuring equipments.			

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4.1.2. 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	Dec. 10, 2020	Dec. 09, 2021	
LISN	R&S	ENV216	HKE-002	Dec. 10, 2020	Dec. 09, 2021	
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Dec. 10, 2020	Dec. 09, 2021	
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A	

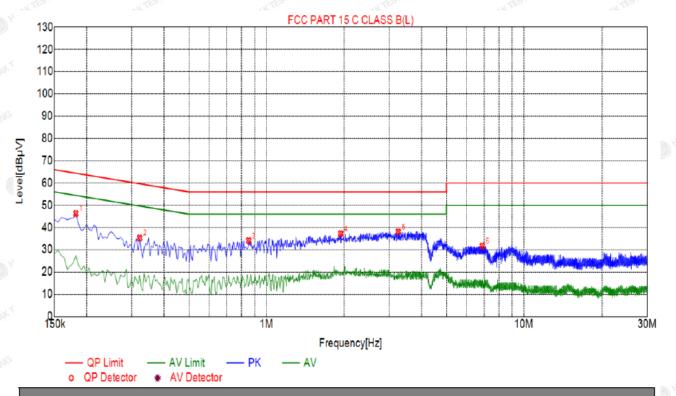
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



Test data

All the test modes completed for test. only the worst result of (802.11a at 5180MHz) was reported

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



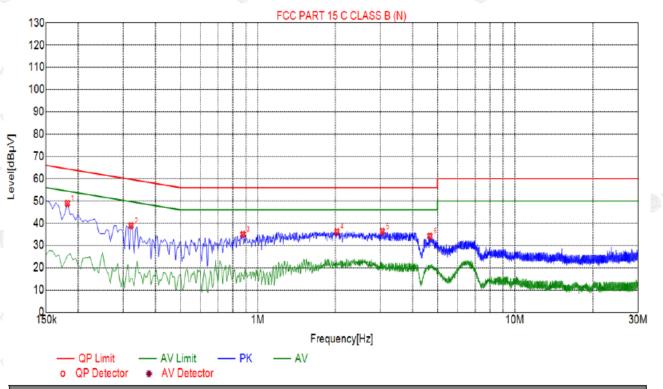
Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.1815	46.27	20.06	64.42	18.15	26.21	PK	L		
2	0.3210	35.27	20.05	59.68	24.41	15.22	PK	L		
3	0.8520	34.10	20.06	56.00	21.90	14.04	PK	L		
4	1.9410	37.26	20.14	56.00	18.74	17.12	PK	L		
5	3.2505	38.08	20.23	56.00	17.92	17.85	PK	L		
6	6.8955	31.69	20.20	60.00	28.31	11.49	PK	L		

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor



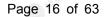
Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1815	48.93	20.06	64.42	15.49	28.87	PK	N	
2	0.3210	38.96	20.05	59.68	20.72	18.91	PK	N	
3	0.8745	34.97	20.06	56.00	21.03	14.91	PK	N	
4	2.0310	36.15	20.15	56.00	19.85	16.00	PK	N	
5	3.0525	36.31	20.22	56.00	19.69	16.09	PK	N	
6	4.6725	34.19	20.26	56.00	21.81	13.93	PK	N	

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor





4.2. MAXIMUM CONDUCTED OUTPUT POWER

4.2.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)				
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E				
Limit:	Frequency Band (MHz)				
	5150-5250 250mW for client devices				
Test Setup:	Power meter EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a. 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 conducted output power and record the results in the test report. 				
Test Result:	PASS				
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power				

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4.2.2. Test Instruments

KD600 3 - 100/021		ARC 4.	905031	62600 7	9051/27		
RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent (N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021		
Power meter	Agilent	E4419B	HKE-085	Dec. 10, 2020	Dec. 09, 2021		
Power Sensor	Agilent	E9300A	HKE-086	Dec. 10, 2020	Dec. 09, 2021		
RF cable	Times	1-40G	HKE-034	Dec. 10, 2020	Dec. 09, 2021		
RF automatic control unit	Tonscend	JS0806- 2	HKE-060	Dec. 10, 2020	Dec. 09, 2021		

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



Test Data

	Configuration Band I (5150 - 5250 MHz)						
Mode Test chann		est channel Maximum Conducted Output Power (dBm)		Result			
11a	CH36	7.49	24	PASS			
11a	CH40	6.51	24	PASS			
11a www.	CH48	7.11	24	PASS			
11n(HT20)	CH36	7.30	24	PASS			
11n(HT20)	CH40	6.33	24	PASS			
11n(HT20)	CH48	6.98	24	PASS			
11n(HT40)	CH38	6.83	24	PASS			
11n(HT40)	CH46	6.52	24	PASS			
11ac(HT20)	CH36	6.23	24	PASS			
11ac(HT20)	CH40	5.14	24	PASS			
11ac(HT20)	CH48	5.90	24	PASS			
11ac(HT40)	CH38	5.62	24	PASS			
11ac(HT40)	CH46	4.99	24	PASS			
11ac(HT80)	CH42	5.04 M	24	PASS			

TEICATION

4.3. 6DB EMISSION BANDWIDTH

4.3.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	Special and the second
	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. 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 mus be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	N/A MATERING WATERING WATERING WATERING

4.3.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021	
RF cable	Times	1-40G	HKE-034	Dec. 10, 2020	Dec. 09, 2021	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	Dec. 09, 2021	

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

4.3.3Test data

N/A



4.4. 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

4.4.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	No restriction limits
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth RBW = 1% EBW, VBW≥3RBW, In order to make an accurate measurement. Measure and record the results in the test report.
Test Result:	PASS

4.4.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021	
RF cable	Times Mil	1-40G	HKE-034	Dec. 10, 2020	Dec. 09, 2021	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	Dec. 09, 2021	

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

Band I

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Verdict	
11a	CH36	5180	23.72	PASS	
11a 💮	CH40	5200	20.84	PASS	
11a	CH48	5240	20.32	PASS	
11n(HT20)	CH36	5180	21.04	PASS	
11n(HT20)	CH40	5200	19.04	PASS	
11n(HT20)	CH48	5240	19.00	PASS	
11n(HT40)	CH38	5190	39.20	PASS	
11n(HT40)	CH46	5230	19.52	PASS	
11ac(HT20)	CH36	5180	20.96	PASS	
11ac(HT20)	CH40	5200	19.00	PASS	
11ac(HT20)	CH48	5240	19.08	PASS	
11ac(HT40)	CH38	5190	38.96	PASS	
11ac(HT40)	CH46	5230	19.52	PASS	
11ac(HT80)	CH42	5210	115.36	PASS	
76/11	AND AND	261	2000. 47		

Test plots as follows:

Band I (5150 - 5250 MHz)

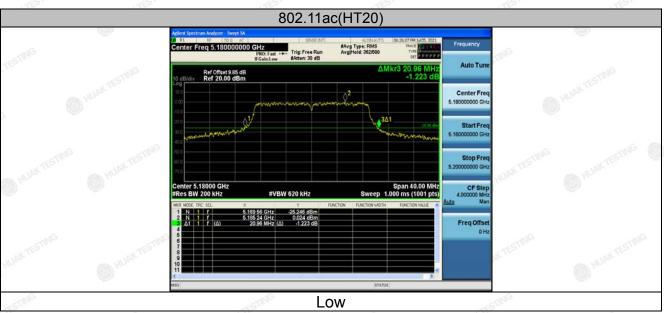




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High



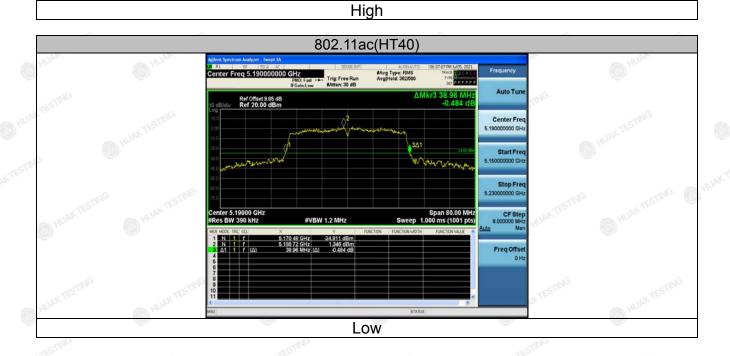


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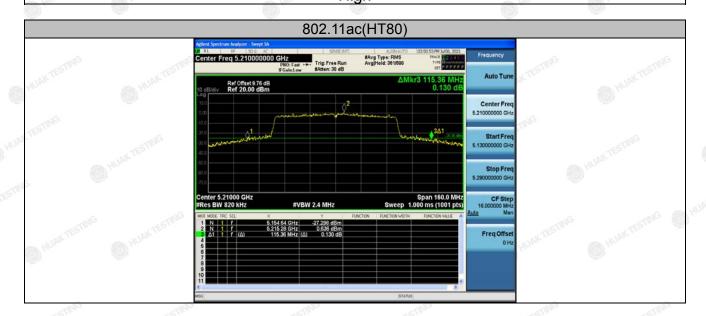
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4.5. POWER SPECTRAL DENSITY

4.5.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)			
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F			
Limit:	≤11.00dBm/MHz for Band I 5150MHz-5250MHz			
Test Setup:	EUT EUT			
	Spectrum Analyzer			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	 Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. Set RBW = 1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. Allow the sweeps to continue until the trace stabilizes. Use the peak marker function to determine the maximum amplitude level. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment. 			
Test Result:	PASS O HUME O HUME			

4.5.2. Test Instruments

	AND CO.	-40/p	41/1/2	4000	700	40/2		
	RF Test Room							
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
HUAK	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021		
CING	RF cable	Times	1-40G	HKE-034	Dec. 10, 2020	Dec. 09, 2021		
	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	Dec. 09, 2021		

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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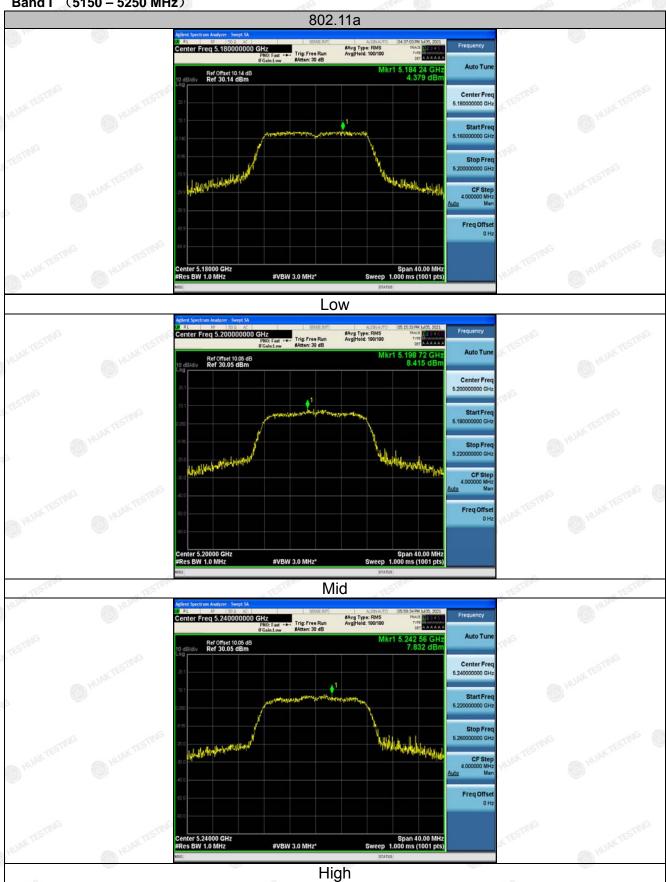
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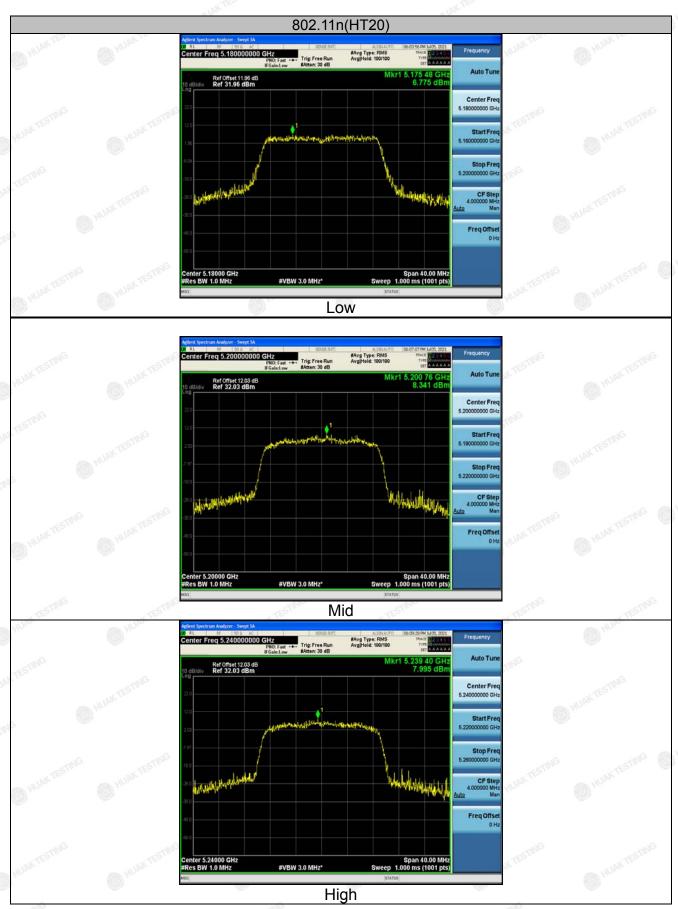


4.5.3. Test data

Configuration Band I (5150 - 5250 MHz)					
Mode	Test channel	Level [dBm/MHz]	Limit (dBm/MHz)	Result	
11a	CH36	4.38	11 numeric	PASS	
11a	CH40	8.41	11	PASS	
11a	CH48	7.83	11 ⁵	PASS	
11n(HT20)	CH36	6.78	11	PASS	
11n(HT20)	CH40	8.34	11	PASS	
11n(HT20)	CH48	8	11	PASS	
11n(HT40)	CH38	6.35	11	PASS	
11n(HT40)	CH46	7.47	11	PASS	
11ac(HT20)	CH36	7.42	11 N. TESTIN	PASS	
11ac(HT20)	CH40	7.37	11	PASS	
11ac(HT20)	CH48	7.2	11 _{5,111} G	PASS	
11ac(HT40)	CH38	6.46	11 m	PASS	
11ac(HT40)	CH46	7.38	11	PASS	
11ac(HT80)	CH42	-1.55	11	PASS	

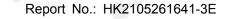
Band I (5150 - 5250 MHz)

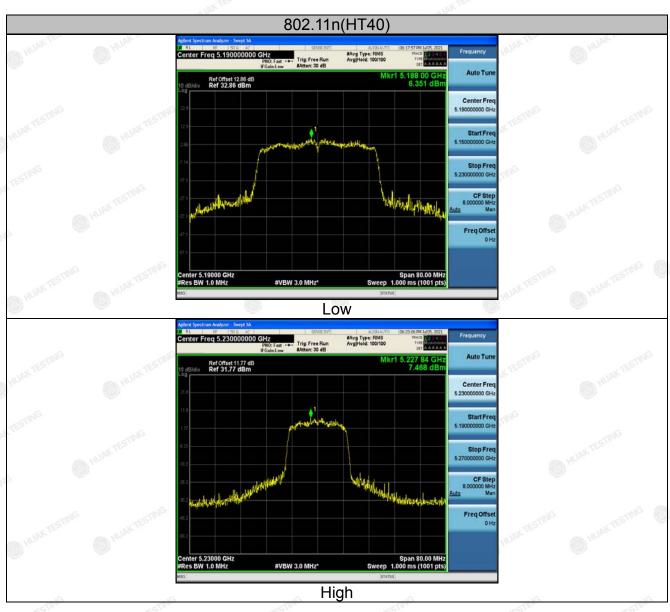


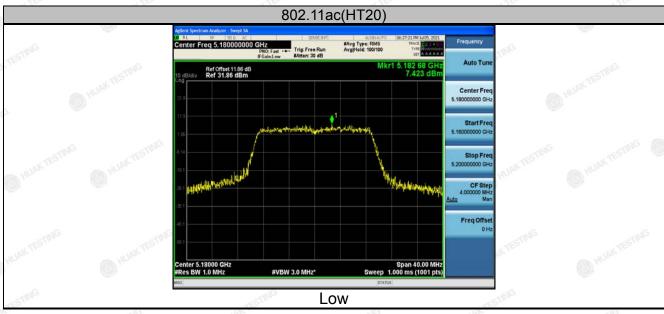


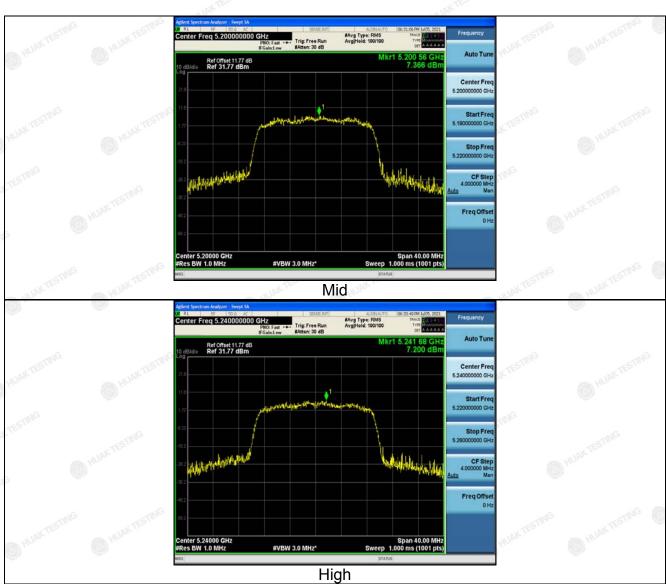
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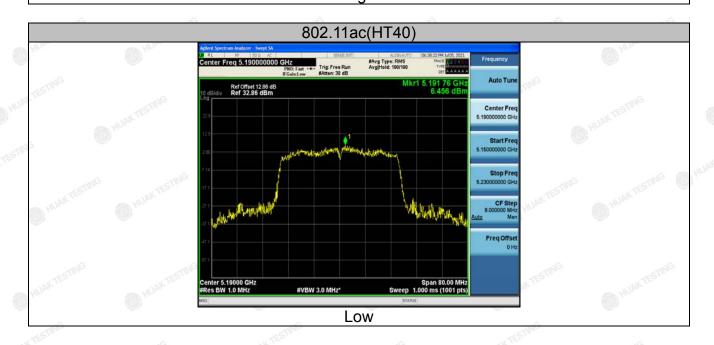
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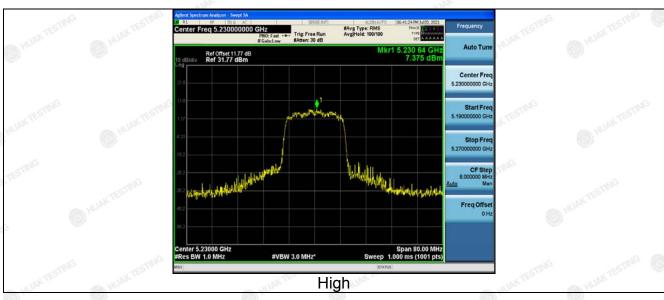


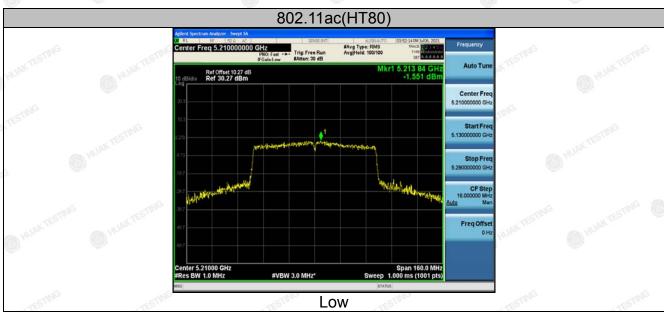














4.6. BAND EDGE

4.6.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407				
Test Method:	ANSI C63.10 2013				
	For band I&II&III: E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBμV/m, for EIRP(dBm)= -27dBm For transmitters operating in the 5.725-5.85 GHz band:				
Limit:	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.				
	For band IV(5715-5725MHz&5850-5860MHz): $E[dB\mu V/m] = EIRP[dBm] + 95.2=78.2 dB\mu V/m$, for $EIRP(dBm) = -27dBm$;				
	For band IV(other un-restricted band):E[dBµV/m] = EIRP[dBm] + 95.2=68.2 dBµV/m, for EIRP(dBm)= -27dBm				
Test Setup:	Ant. feed point 1.4 m				
	ReceiverAmp.				
Test Mode:	Transmitting mode with modulation				
	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on 				
Test Procedure:	the top of a variable-height antenna tower. 3. 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.				

Test Procedure:	 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.
Test Result:	PASS



4.6.2. Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESRP3	HKE-005	Dec. 10, 2020	Dec. 09, 2021
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021
Preamplifier	EMCI	EMC051845S E	HKE-015	Dec. 10, 2020	Dec. 09, 2021
Preamplifier	Agilent	83051A	HKE-016	Dec. 10, 2020	Dec. 09, 2021
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 10, 2020	Dec. 09, 2021
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 10, 2020	Dec. 09, 2021
Horn antenna	Schwarzbeck	9120D	HKE-013	Dec. 10, 2020	Dec. 09, 2021
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Dec. 10, 2020	Dec. 09, 2021
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable (9KHz-1GHz)	Times	381806-001	N/A	N/A	N/A
Hf antenna	Schwarzbeck	LB-180400-K F	HKE-031	Dec. 10, 2020	Dec. 09, 2021
RF cable	Tonscend	1-18G	HKE-099	Dec. 10, 2020	Dec. 09, 2021
RF cable	Times	1-40G	HKE-034	Dec. 10, 2020	Dec. 09, 2021

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





4.6.3. Test Data

Radiated Band Edge Test:

Operation Mode: 802.11a Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	54.97	-2.49	52.48	74	-21.52	peak
5150	CSTAG ON	-2.49	TING /	54	1 TING	AVG (100

Vertical:

(MHz) (dE					Dotootor Typo
(IVII IZ) (UL	βμV) (dE	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150 53	5.25 -2.4	9 50.76	74	-23.24	peak
5150	/ -2.4	.9 /	54	ESTAG /	AVG

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



Operation Mode: TX CH High with 5.2G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	53.64	-2.11	51.53	74	-22.47	peak
5350	1	-2.11	1	54	KTESTING	AVG

Vertical:

TESTINA	JAKTES!		OK ITES		TESTINA	OKTES
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	52.73	-2.11	50.62	74	-23.38	peak
5350	HUAKTE	-2.11	HUAKTE	54	HUAKTE	AVG

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



Operation Mode: 802.11n20 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	54.22	-2.49	51.73	74	-22.27	peak
5150	I I	-2.49	HUNKTES	54	1	AVG

Vertical:

_		0000				
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
5150	53.94	-2.49	51.45	74	-22.55	peak
5150	1	-2.49	1	54	CTESTING /	AVG
	ZSTITE.	ACT.	CSTREE	AN HO		-CSTI

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



Operation Mode: TX CH High with 5.2G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	55.19	-2.11	53.08	74	-20.92	peak
5350	1	-2.11	1	54	ESTING /	AVG

Vertical:

- INC	-C11.		-alle	V5007	4100	-6111
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	54.41	-2.11	52.3	74	-21.7	peak
5350	HUAKTES	-2.11	L HUAKTES	54	MAKTES	AVG



Operation Mode: 802.11 n40 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	54.67	-2.49	52.18	74	-21.82	peak
5150	1	-2.49	HUAKTESTA	54	1	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	53.56	-2.49	51.07	74	-22.93	peak
5150	STING /	-2.49	LESTING	54	1	AVG

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

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Operation Mode: TX CH High with 5.2G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	53.38	-2.11	51.27	74	-22.73	peak
5350	1	-2.11	1	54	ESTING /	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	54.93	-2.11	52.82	74	-21.18	peak
5350	HUAKTES /	-2.11	A HUAK TES	54	WAKTES	AVG



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Operation Mode: 802.11 ac20 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turns
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	54.28	-2.49	51.79	74	-22.21	peak
5150	STING /	-2.49	LESTING	54 MAK	1	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	53.68	-2.49	51.19	74	-22.81	peak
5150	1	-2.49	1	54		AVG

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



Operation Mode: TX CH High with 5.2G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	53.89	-2.11	51.78	74	-22.22	peak
5350	1	-2.11	1	54	KTESTING	AVG

Vertical:

-111/2	761.		-TIN-		TIME	~6511
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	52.66	-2.11	₅ 50.55	74	-23.45	peak
5350	HUAK TE	-2.11	HUAKT	54	A HUAKTES	AVG



Operation Mode: 802.11 ac40 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	53.78	-2.49	51.29	74	-22.71	peak
5150	1	-2.49	HUAKTES	54	1	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	52.45	-2.49	49.96	74	-24.04	peak
5150	1	-2.49	1	54	ESTING /	AVG
	25711	Ho.	28711	HO.	•	-65\W

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



Operation Mode: TX CH High with 5.2G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	54.57	-2.11	52.46	74	-21.54	peak
5350	1	-2.11	1	54	ESTING /	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	53.84	-2.11	51.73	74	-22.27	peak
5350	HUAK TEST	-2.11	- LAWAKTES	54	WAKTES	AVG

Operation Mode: 802.11 ac80 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	54.62	-2.49	52.13	74	-21.87	peak
5150	1	-2.49	HUAKTES	54	1	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotactor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	52.77	-2.49	50.28	74	-23.72	peak
5150	1	-2.49	1	54	ESTING /	AVG

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

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Operation Mode: TX CH High with 5.2G

Horizontal

TEST	requency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
ING	5350	53.62	-2.11	51.51	74	-22.49	peak
	5350	STING /	-2.11	W/ESTING	54	1	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	52.48	-2.11	50.37	74	-23.63	peak
5350	1	-2.11		54	1	AVG

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





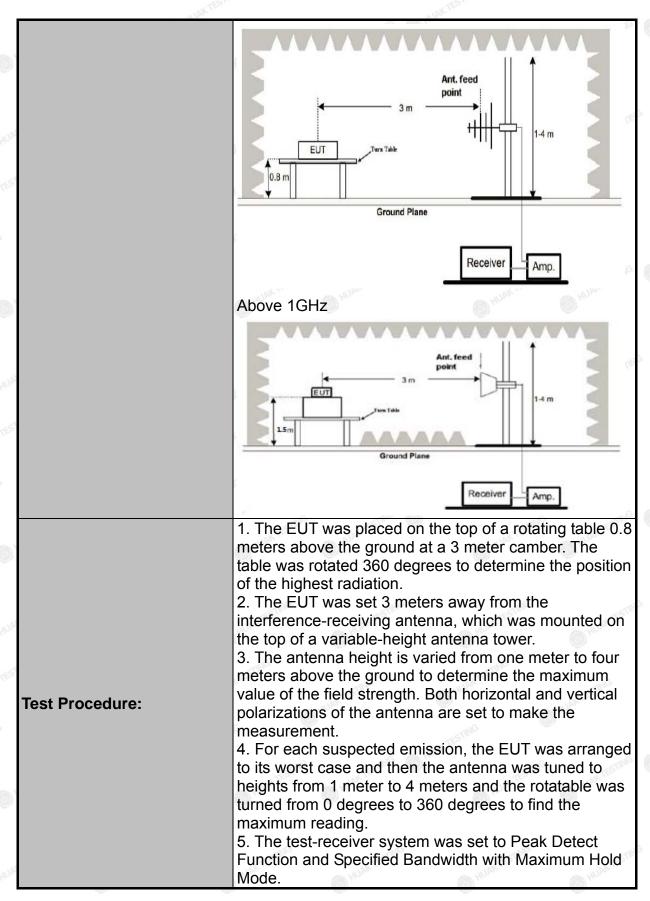
4.7. SPURIOUS EMISSION

4.7.1.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 Se	ction 15.	.407	JG TESTIN
Test Method:	KDB 789033	D02 v02r0)1 (D HUPS	O HUND
Frequency Range:	9kHz to 40G	Hz		ESTING	
Measurement Distance:	3 m	AKTESTING	(A) HI	AKT	OKTESTING
Antenna Polarization:	Horizontal &	Vertical		a)G	O HOW
Operation mode:	Transmitting	mode with	modulat	ion	
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Detector Quasi-peak Quasi-peak Quasi-peak	RBW 200Hz 9kHz 120KHz	VBW 1kHz 30kHz 300KHz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value
Limit:	band: All em shall not exc (i) All emiss dBm/MHz at edge increas above or below the 15.6 dBm/Mi and from 5 increasing linedge.	issions out eed an e.i.resions shall 75 MHz or sing linear ow the ban band edge Hz at 5 MHz MHz abor nearly to a lear	eside of to the control of the contr	he 5.15- 7 dBm/N ted to a bove or dBm/M and from sing linea or below below 7 dBm/N	5.15-5.25 GHz 5.35 GHz band MHz. a level of -27 below the band Hz at 25 MHz a 25 MHz above arly to a level of the band edge, he band edge MHz at the band which fall in rest
Test setup:	For radiated Some Some	Turn Table Ground	m	RX Ante	

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Test Procedure:	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test results:	PASS



4.7.2. Test Data

All the test modes completed for test. only the worst result of (802.11a at 5180MHz) was reported Below 1GHz

Horizontal



QP Detector

	Suspe	cted List								
<	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
Ī	1	177.5876	-16.96	37.37	20.41	43.50	23.09	100	284	Horizontal
	2	231.9620	-14.23	31.70	17.47	46.00	28.53	100	94	Horizontal
	3	294.1041	-12.80	42.92	30.12	46.00	15.88	100	296	Horizontal
	4	315.4655	-12.33	42.93	30.60	46.00	15.40	100	90	Horizontal
	5	382.4625	-10.78	46.67	35.89	46.00	10.11	100	145	Horizontal
	6	418.3884	-10.06	43.37	33.31	46.00	12.69	100	173	Horizontal

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



Vertical



Suspe	Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	45.5355	-13.65	32.22	18.57	40.00	21.43	100	238	Vertical	
2	70.7808	-17.81	34.73	16.92	40.00	23.08	100	242	Vertical	
3	176.6166	-17.01	42.49	25.48	43.50	18.02	100	313	Vertical	
4	315.4655	-12.33	44.64	32.31	46.00	13.69	100	359	Vertical	
5	380.5205	-10.82	44.50	33.68	46.00	12.32	100	159	Vertical	
6	426.1562	-9.92	39.09	29.17	46.00	16.83	100	1	Vertical	

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

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Above 1GHz

LOW CH 36 (802.11 a Mode with 5.2G)/5180

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	56.92	-4.59	52.33	74 HUA	-21.67	peak
3647	46.67	-4.59	42.08	54	-11.92	AVG
10360	50.25	3.74	53.99	74 TESTI	-20.01	peak
10360	45.94	3.74	49.68	54	-4.32	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	55.47	-4.59	50.88	74 W	-23.12	peak
3647	45.63	-4.59	41.04	54	-12.96	AVG
10360	50.15	3.74	53.89	74	-20.11	peak
10360	43.77	3.74	47.51	54	-6.49	AVG

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

AFICATION.



MID CH40 (802.11 a Mode with 5.2G)/5200

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data dian Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	55.45	-4.59	50.86	74	-23.14	peak
3647	46.13	-4.59	41.54	54	-12.46	AVG
10400	50.22	3.74	53.96	74	-20.04	peak
10400	43.49	3.74	47.23	54	-6.77	AVG

Vertical:

TING	TING		TING	TING	TING	-11
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	56.91	-4.59	52.32	74	-21.68	peak
3647	44.06	-4.59	39.47	54	-14.53	AVG
10400	50.12	3.74	53.86	74 TEST	-20.14	peak
10400	41.96	3.74	45.7	54	-8.3	AVG



HIGH CH 48 (802.11a Mode with 5.2G)/5240

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Termin
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	54.75	-4.59	50.16	74	-23.84	peak
3647	45.61	-4.59	41.02	54 AW	-12.98	AVG
10480	49.35	3.75	53.1	74	-20.9	peak
10480	42.27	3.75	46.02	54	-7.98	AVG
ON	-111/4 (GES)		TO T	114, (6)23	Olan	-71192

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	STING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	55.03	-4.59	50.44	74	-23.56	peak
3647	44.19	-4.59	39.6	54 (S) HUP	-14.4	AVG
10480	50.08	3.75	53.83	74	-20.17	peak
10480	42.63	3.75	46.38	54	-7.62	AVG

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

Remark

- (1) Measuring frequencies from 1 GHz to the 40 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.



4.8. FREQUENCY STABILITY MEASUREMENT

4.8.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g)						
Test Method:	ANSI C63.10: 2013						
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.						
Test Setup:	Spectrum Analyzer EUT AC/DC Power supply						
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.						
Test Result:	PASS						
Remark:	N/A MA TES THE MALLER TES THE MALLER TES THE MALLER TES THE						



4.8.2. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021			
Temperature and humidity meter	Boyang	HTC-1	HKE-077	Dec. 10, 2020	Dec. 09, 2021			
programmable power supply	Agilent	E3646A	HKE-092	Dec. 10, 2020	Dec. 09, 2021			

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



Test Result as follows:

Mode	Voltage (V)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
5.2G Band	5.75V	5179.978	-22	5239.984	-16
	5V	5179.996	_™ -4	5239.979	-21
	4.25V	5179.982	-18	5239.969	-31

Mode	Temperature (°C)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
WG.	-30	5179.982	-18	5239.983	-17
HUAK	-20	5179.987	-13	5239.980	-20
G	-10	5180.012	12	5239.977	-23
HUAKTESTIN	0 14114	5179.979	-21	5239.989	-11
5.2G Band	10	5179.988	-12	5239.978	-22
V TESTING	20	5179.975	-25	5239.969	-31
SELLING HINN	30	5179.979	-21	5239.988	-12
	40	5179.982	-18	5239.972	-28
	50	5179.976	-24	5239.979	-21



4.9. 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.

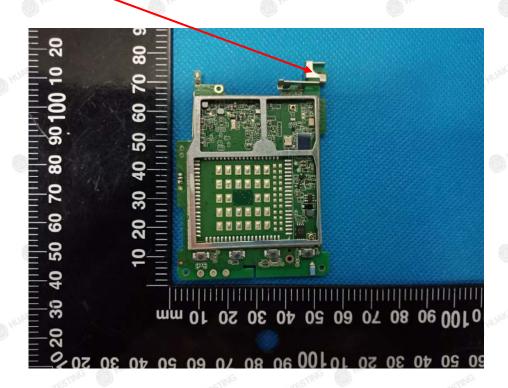
Refer to statement below for compliance.

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 Internal Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3.3dBi.

WIFI ANTENNA



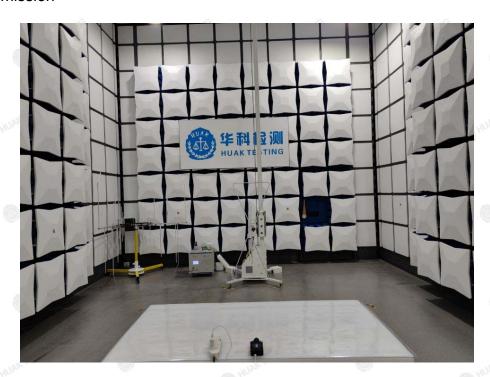
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5. PHOTOGRAPHS OF TEST SETUP

Radiated Emission





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Conducted Emission





6. PHOTOS OF THE EUT

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

-----End of test report-----