

FCC Test Report

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

WIFI CAMERA

Model No.: S06, S01, S02, S03, S04, S05, S07, S08, S09, JS11, JS12, JS13, JS14, JS15, JS16, JS17, JS18, JS19, JS20

FCC ID: 2BEXJ-S06

Prepared For: Shenzhen Ningyuanda Technology Co., Ltd

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

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Date of Test: Dec. 06, 2024 ~ Dec. 17, 2024

Date of Report: Dec. 17, 2024

Report Number: HK2412067520-3E



Test Result Certification

Applicant's name:	Shenzhen Ningyuanda	Technology	Co., Ltd

402 Kaiteng Building, Bantian Street, Longgang District, Address.....

Shenzhen, China

Manufacturer's Name.....: Shenzhen Ningyuanda Technology Co., Ltd

402 Kaiteng Building, Bantian Street, Longgang District, Address.....

Shenzhen, China

Product description

Trade Mark: N/A

WIFI CAMERA Product name.....:

S06, S01, S02, S03, S04, S05, S07, S08, S09, JS11, JS12, Model and/or type reference:

JS13, JS14, JS15, JS16, JS17, JS18, JS19, JS20

FCC Rules and Regulations Part 15 Subpart E Section 15.407 Standards.....

ANSI C63.10: 2013

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Date of Test:

Dec. 06, 2024 ~ Dec. 17, 2024 Date (s) of performance of tests.....:

Dec. 17, 2024 Date of Issue:

Test Result: Pass

> len lian Testing Engineer

> > (Len Liao)

Technical Manager

(Sliver Wan)

Authorized Signatory:

(Jason Zhou)



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** Modified History **

Report No.: HK2412067520-3E

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Dec. 17, 2024	Jason Zhou
STNG	STNG	STING	



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)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	N/A HARTE
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
^G 1	Conducted Emission	±0.37dB
2	RF power, conducted	±3.35dB
3	Spurious emissions, conducted	±2.20dB
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:	WIFI CAMERA
Model Name:	S06 HIME SUMMED
Serial Models:	S01, S02, S03, S04, S05, S07, S08, S09, JS11, JS12, JS13, JS14, JS15, JS16, JS17, JS18, JS19, JS20
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: S06.
Trade Mark:	N/A
FCC ID:	2BEXJ-S06
Operation Frequency:	IEEE 802.11a/n/ac (HT20)5.745GHz-5.825GHz IEEE 802.11n/ac (HT40)5.755GHz-5.795GHz
Modulation Technology:	IEEE 802.11a/n/ac
Modulation Type:	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Antenna Type:	External Antenna
Antenna Gain:	1.66dBi Municipal Company Comp
Power Source:	DC 5V From Type-C
Power Supply:	DC 5V From Type-C
Hardware Version:	V2.0
Software Version:	V2.0 HUMTESTING

Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

- 2. Antenna gain Refer to the antenna specifications.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.

2.2. Operation Frequency Each of Channel

802.11a/802.11n(HT20) 802.11ac(HT20)			1n(HT40) Iac(HT40)
Channel	Frequency	Channel	Frequency
149	5745	151	5755
153	5765	159	5795
157	5785	AK TES	0
161	5805		WG.
165	5825		JUAK TES

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:

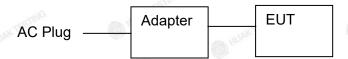
2.3. Operation of EUT During Testing

Ba	and IV (5725 - 5850 MH	lz)		
For 802.11a/n (HT20)/ac(HT20)				
Channel Number	Channel	Frequency (MHz)		
149	Low	5745		
157	Mid	5785		
165	High	5825		

	4		4 1	- 14
		For	802.11n (HT40)/ ac	(HT40)
	Channel Number	WAK TE	Channel	Frequency (MHz)
HUAKTE	151	.	Low	5755
	159	TING	High	5795

2.4. Description of Test Setup

Operation of EUT during testing:



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.



2.5. 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	WIFI CAMERA	N/A	S06	N/A	TESTING EUT
2	USB Cable	N/A	N/A	Length:1.0m	Accessory
3 HUANTES	Adapter	N/A	MDY-10-EH	Input: 100-240V, 50/60Hz, 0.7A Output: 5V, 3A/9V, 3A/12V, 2.25A/20V, 1.35A	Peripheral
4	Adapter	N/A	N/A	Input: 100-240V, 50/60Hz, 0.5A Output: 5VDC, 2A	Peripheral
MAKTESTIN	LAKTESTIN		K TESTING	LOKTESTING	LAKTESTING

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.



3. Genera Information

3.1. Test Environment and Mode

Operating Environment:		
Temperature:	25.0 °C	KTES
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	G
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations	g ESTING
(0)	70	

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.

	Mode	-m/G	Data rate	
5,	802.11a	HUAK TES,	6 Mbps	HUAKTE
	802.11n(HT20)		MCS0	
	802.11n(HT40)	AKTESTING	MCS0	AK TESTING
8	302.11ac(HT20)/ac(HT40)	O kon	MCS0	D HOW

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

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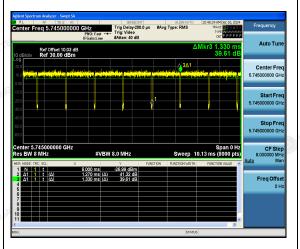


Mode Test Duty Cycle:

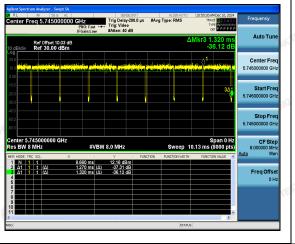
-		
Mode	Duty Cycle	Duty Cycle Factor (dB)
802.11a	0.95	-0.22
802.11n(HT20)	0.96	-0.18
802.11n(HT40)	0.96	-0.18
802.11ac(HT20)	0.96	-0.18
802.11ac(HT40)	0.96	-0.18

Test plots as follows:

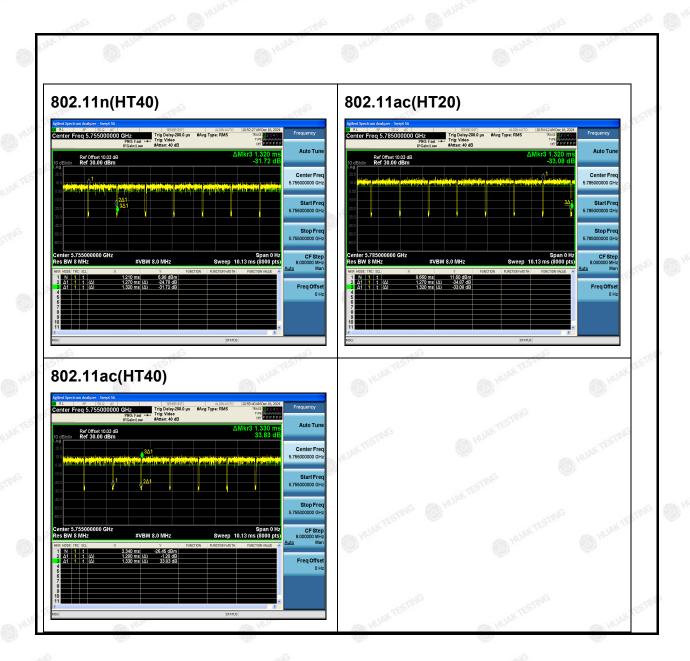
802.11a



802.11n(HT20)



Report No.: HK2412067520-3E





4. Test Results and Measurement Data

4.1. Conducted Emission

4.1.1. Test Specification

STILL	Tellin Tellin	THE TOTAL PROPERTY.	T CTI				
Test Requirement:	FCC Part15 C Section	15.207	MILIAN.				
Test Method:	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz	MIJAR.	WAK TESTING				
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
Limits: Test Setup:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30 Reference 40cm Test table/Insulation plane	Filter —	Average 56 to 46* 46 50				
Test Mode:	Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization I Test table height=0.8m Tx Mode	EMI Receiver	STING				
	1. The E.U.T and simple power through a line (L.I.S.N.). This pro-	e impedance stabi	lization network				
Test Procedure:	impedance for the magnetic power through a Lipower through a Lipower to the block photographs). 3. Both sides of A.C. conducted interfered emission, the relative the interface cables ANSI C63.10: 2013	ces are also conne ISN that provides with 50ohm term diagram of the line are checked nce. In order to fin ye positions of equi s must be change	ent. cted to the main a 50ohm/50uH ination. (Please test setup and d for maximum d the maximum pment and all of				



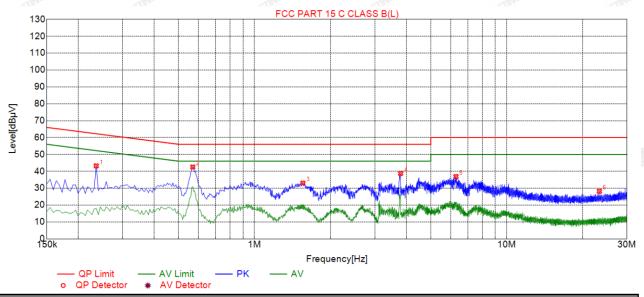
4.1.2. Test Instruments

(800)	Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	Feb. 19, 2025			
LISN	R&S	ENV216	HKE-002	Feb. 20, 2024	Feb. 19, 2025			
LISN	R&S	ENV216	HKE-059	Feb. 20, 2024	Feb. 19, 2025			
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 20, 2024	Feb. 19, 2025			
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A			
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	Feb. 19, 2025			

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

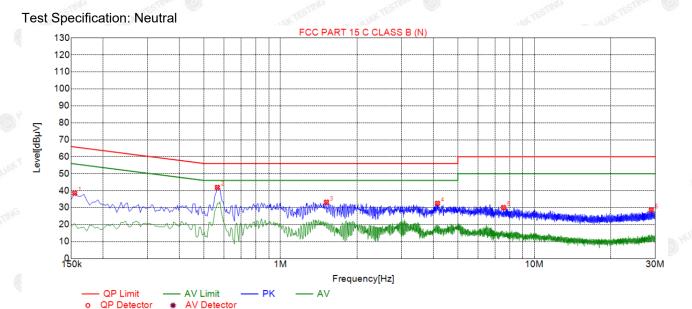
4.1.3. Test data

Test Specification: Line



Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Reading [dBµ∀]	Detector	Туре		
1	0.2355	43.23	19.83	62.25	19.02	23.40	PK	L		
2	0.5685	42.55	19.86	56.00	13.45	22.69	PK	L		
3	1.5540	33.02	19.93	56.00	22.98	13.09	PK	L		
4	3.7950	38.77	20.09	56.00	17.23	18.68	PK	L		
5	6.2880	36.91	20.08	60.00	23.09	16.83	PK	L		
6	23.3025	28.18	20.06	60.00	31.82	8.12	PK	L		

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



Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Reading [dBµ∀]	Detector	Туре		
1	0.1545	38.46	19.73	65.75	27.29	18.73	PK	N		
2	0.5640	41.92	19.75	56.00	14.08	22.17	PK	N		
3	1.5180	33.19	19.79	56.00	22.81	13.40	PK	N		
4	4.1550	32.51	19.98	56.00	23.49	12.53	PK	N		
5	7.5660	30.07	19.95	60.00	29.93	10.12	PK	N		
6	28.9230	28.55	20.35	60.00	31.45	8.20	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 Limit
	5725-5850 1 W
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

VISO1		7590 v	18322	488A V 188	(8)		
RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025		
Power meter	Agilent	E4419B	HKE-085	Feb. 20, 2024	Feb. 19, 2025		
Power Sensor	Agilent	E9300A	HKE-086	Feb. 20, 2024	Feb. 19, 2025		
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025		
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	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

	Configura	tion Band IV (5725 - 5850 M	HZ)	
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
802.11a	CH149	6.18	30	PASS
802.11a	CH157	6.76	30	PASS
802.11a	CH165	7.34	30	PASS
802.11n(HT20)	CH149	6.13	30	PASS
802.11n(HT20)	CH157	6.53	30	PASS
802.11n(HT20)	CH165	7.27	30	PASS
802.11n(HT40)	CH151	6.32	30	PASS
802.11n(HT40)	CH159	6.77	30	PASS
802.11ac(HT20)	CH149	6.22	30	PASS
802.11ac(HT20)	CH157	6.49	30	PASS
802.11ac(HT20)	CH165	7.11	30	PASS
802.11ac(HT40)	CH151	6.53	30	PASS
802.11ac(HT40)	CH159	6.78	30	PASS



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 v01r04 Section C
Limit:	>500kHz
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) = 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. Measure and record the results in the test report.
Test Result:	PASS

4.3.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025	
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025	
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	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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4.3.3. Test data

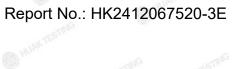
	E	Band IV (5725 -	- 5850 MHz)		
Mode	Test Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	CH149	5745	16.40	0.5	PASS
802.11a	CH157	5785	16.36	0.5	PASS
802.11a	CH165	5825	16.36	0.5	PASS
802.11n(HT20)	CH149	5745	17.64	es ^{rine} 0.5	PASS
802.11n(HT20)	CH157	5785	17.64	0.5	PASS
802.11n(HT20)	CH165	5825	17.60	0.5	PASS
802.11n(HT40)	CH151	5755	36.32	0.5	PASS
802.11n(HT40)	CH159	5795	36.40	0.5	PASS
802.11ac(HT20)	CH149	5745	17.64	0.5	PASS
802.11ac(HT20)	CH157	5785	17.60	0.5	PASS
802.11ac(HT20)	CH165	5825	17.60	0.5	PASS
802.11ac(HT40)	© CH151	5755	36.32	0.5	PASS
802.11ac(HT40)	CH159	5795	36.32	0.5	PASS

Test plots as follows:





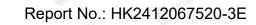
















4.4. 26db Bandwidth and 99% Occupied Bandwidth

4.4.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)				
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:	N/A TESTING WITTESTING WITTESTING INVESTING				

4.4.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	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).

4.4.3. Test Result

N/A



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:	≤30.00dBm/500KHz for Band IV 5725MHz-5850MHz			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	 Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. Set RBW = 510 kHz/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			

4.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	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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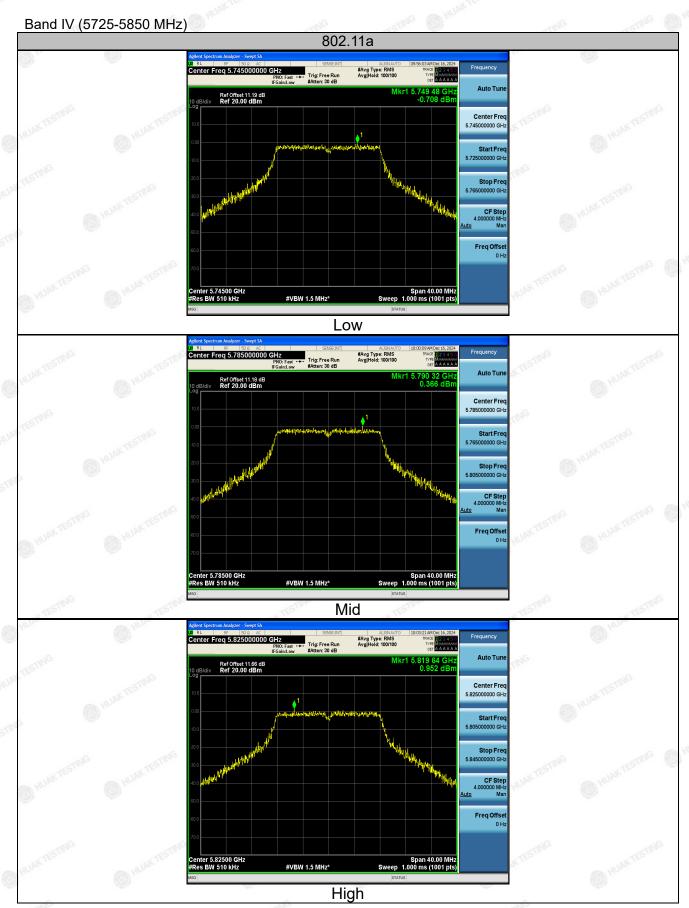
4.5.3. Test data

Configuration Band IV (5725 - 5850 MHz)						
Mode	Test Channel	Level [dBm/510kHz]	10log(500/ 510)	Power Spectral Density	Limit (dBm/500kH z)	Result
802.11a	CH149	-0.71	-0.086	-0.796	30 NKTESTI	PASS
802.11a	CH157	0.37	-0.086	0.284	30	PASS
802.11a	CH165	0.95	-0.086	0.864	30	PASS
802.11n(HT20)	CH149	-1.01	-0.086	-1.096	30	PASS
802.11n(HT20)	CH157	-0.29	-0.086	-0.376	30	PASS
802.11n(HT20)	CH165	0.11	-0.086	0.024	30	PASS
802.11n(HT40)	CH151	-3.14	-0.086	-3.226	55 ^{th16} 30	PASS
802.11n(HT40)	CH159	-1.26	-0.086	-1.346	30	PASS
802.11ac(HT20)	CH149	-0.69	-0.086	-0.776	30	PASS
802.11ac(HT20)	CH157	-0.37	-0.086	-0.456	30 ((15)	PASS
802.11ac(HT20)	CH165	0.56	-0.086	0.474	30	PASS
802.11ac(HT40)	CH151	-2.26	-0.086	-2.346	30	PASS
802.11ac(HT40)	CH159	-1.13	-0.086	-1.216	30 max	PASS

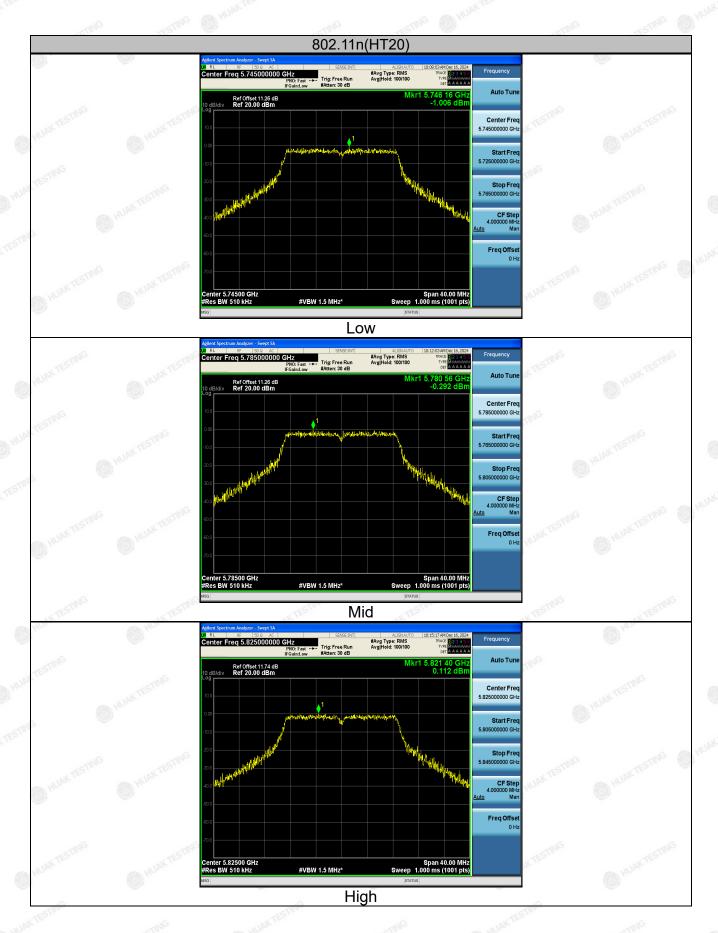
Note: Power Spectral Density= Level [dBm/510kHz]+ (10log(Limit RBW/Test RBW))

Test plots as follows:

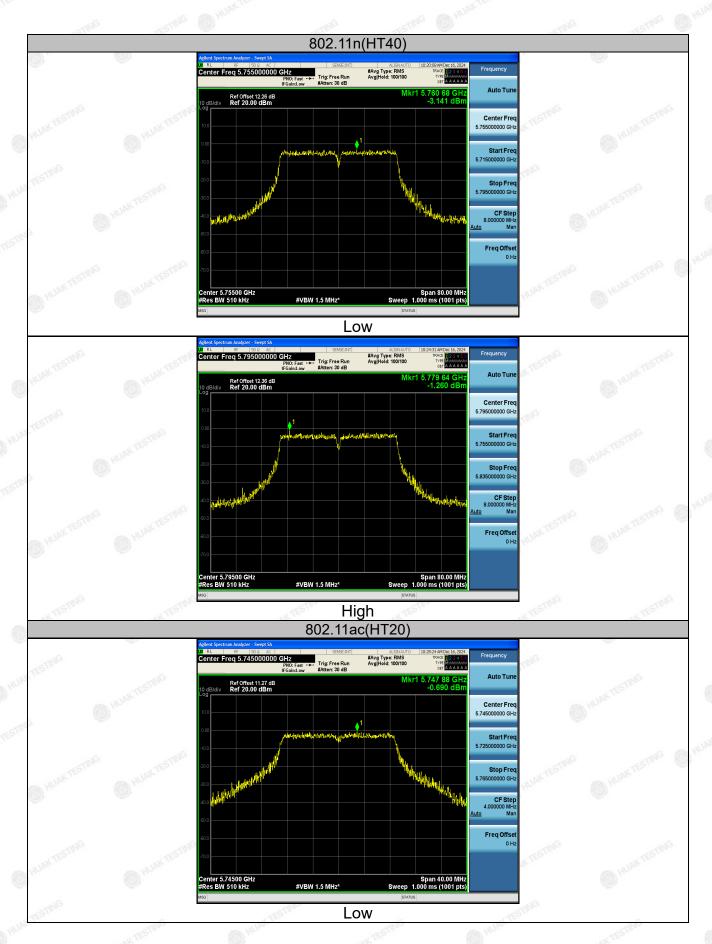


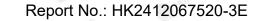


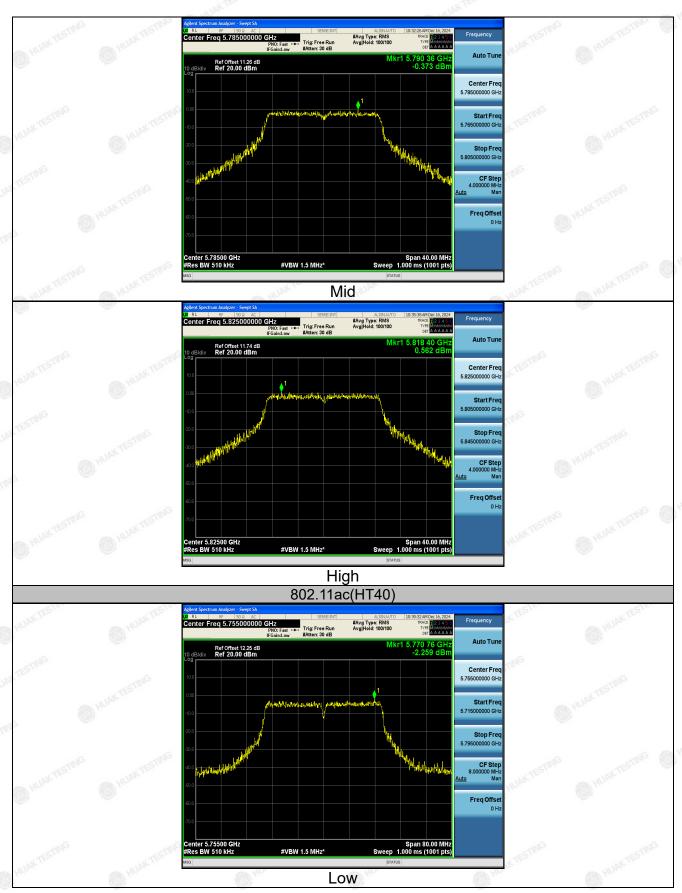












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| Agricult Sportsum Analyzer - Swept SA | SSUSE NIT | ALIXA MIT | 10.45-20 MA (No.15, 2000 | No.15, 2000 | No.15,

Report No.: HK2412067520-3E

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High

4.6. Band Edge

4.6.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407				
Test Method:	ANSI C63.10 2013				
Limit:	(1)For transmitters operating in the 5.725-5.85 GHz band: (i) 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. The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.				
Test Setup:	Ant. feed point 1.4 m Ground Plane Receiver Amp.				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 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 the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 				



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		6. If the emission level of 10dB lower than the limit stopped and the peak vareported. Otherwise the end 10dB margin would be requasi peak or average mareported in a data sheet.	specified, then testing lues of the EUT would emissions that did not e-tested one by one us	g could be I be have sing peak,
Test Result	:	PASS	- WANTESTING	TING



4.6.2. Test Instruments

	Ra	diated Emission	Test Site (96	6)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	Feb. 19, 2025
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	Feb. 19, 2025
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0. 0	HKE-184	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).

4.6.3. Test Data

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data da II Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
5650	52.55	-2.06	50.49	68.2	-17.71	peak
5700	84.21	-1.96	82.25	105.2	-22.95	peak
5720	89.14	-2.87	86.27	110.8	-24.53	peak
5725	102.59	-2.14	100.45	122.2	-21.75	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	51.74	-2.06	49.68	68.2	-18.52	peak
5700	81.12	-1.96	79.16	105.2	-26.04	peak
5720	88.62	-2.87	85.75	110.8	-25.05	peak
5725	106.94	-2.14	104.8	122.2	-17.4	peak

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

Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data et a Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	103.49	-1.97	101.52	122.2	-20.68	peak
5855	87.53	-2.13	85.4	110.8	-25.4	peak
5875	86.88	-2.65	84.23	105.2	-20.97	peak
5925	51.23	-2.28	48.95	68.2	-19.25	peak

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

Vertical:

	Frequency	Meter Reading	Factor	Emission Level	Limits 💮	Margin	Detector Type
ING	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	5850	96.51	-1.97	94.54	122.2	-27.66	peak
	5855	89.15	-2.13	87.02	110.8	-23.78	peak
	5875	81.03	-2.65	78.38	105.2	-26.82	peak
MUNI	5925	53.76	-2.28	51.48	68.2	-16.72	peak

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



Operation Mode: 802.11n/HT20 Mode with 5.8G TX CH Low

Horizontal

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
17.11	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
851	5650	52.76	-2.06	50.7	68.2	-17.5	peak
	5700	83.73	-1.96	81.77	105.2	-23.43	peak
	5720	92.53	-2.87	89.66	110.8	-21.14	peak
	5725	110.14	-2.14	108	122.2	-14.2	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	PHIAK TE
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	53.32	-2.06	51.26	68.2	-16.94	peak
5700	90.95	-1.96	88.99	105.2	-16.21	peak
5720	93.62	-2.87	90.75	110.8	-20.05	peak
5725	106.63	-2.14	104.49	122.2	-17.71	peak

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

AL.



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data at a Trus
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
5850	105.34	-1.97	103.37	122.2	-18.83	peak
5855	90.48	-2.13	88.35	110.8	-22.45	peak
5875	86.29	-2.65	83.64	105.2	-21.56	peak
5925	52.71	-2.28	50.43	68.2	-17.77	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	101.43	-1.97	99.46	122.2	-22.74	peak
5855	88.93	-2.13	86.8	110.8	-24	peak
5875	85.43	-2.65	82.78	105.2	-22.42	peak
5925	52.12	-2.28	49.84	68.2	-18.36	peak

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



Operation Mode: 802.11n/HT40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	53.64	-2.06	51.58	68.2	-16.62	peak
5700	90.55	-1.96	88.59	105.2	-16.61	peak
5720	87.72	-2.87	84.85	110.8	-25.95	peak
5725	108.25	-2.14	106.11	122.2	-16.09	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	HUAKTER
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	53.91	-2.06	51.85	68.2	-16.35	peak
5700	91.87	-1.96	89.91	105.2	-15.29	peak
5720	86.81	-2.87	83.94	110.8	-26.86	peak
5725	106.09	-2.14	103.95	122.2	-18.25	peak

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

Operation Mode: TX CH High with 5.8G

Horizontal

TES	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Tune
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
MIG	5850	100.86	-1.97	98.89	122.2	-23.31	peak
	5855	86.86	-2.13	84.73	110.8	-26.07	peak
	5875	85.62	-2.65	82.97	105.2	-22.23	peak
	5925	51.15	-2.28	48.87	68.2	-19.33	peak

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

Vertical:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
TING	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	5850	103.11	-1.97	101.14	122.2	-21.06	peak
	5855	92.31	-2.13	90.18	110.8	-20.62	peak
	5875	84.36	-2.65	81.71	105.2	-23.49	peak
MA	5925	52.36	-2.28	50.08	68.2	-18.12	peak

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

Operation Mode: 802.11ac/HT20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	54.48	-2.06	52.42	68.2	-15.78	peak
5700	81.52	-1.96	79.56	105.2	-25.64	peak
5720	90.74	-2.87	87.87	110.8	-22.93	peak
5725	104.71	-2.14	102.57	122.2	-19.63	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- WAK TEE
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	51.25	-2.06	49.19	68.2	-19.01	peak
5700	85.94	-1.96	83.98	105.2	-21.22	peak
5720	90.92	-2.87	88.05	110.8	-22.75	peak
5725	104.39	-2.14	102.25	122.2	-19.95	peak

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

Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Tune
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	104.78	-1.97	102.81	122.2	-19.39	peak
5855	88.16	-2.13	86.03	110.8	-24.77	peak
5875	81.21	-2.65	78.56	105.2	-26.64	peak
5925	51.14	-2.28	48.86	68.2	-19.34	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits 🔍	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	104.27	-1.97	102.3	122.2	-19.9	peak
5855	89.04	-2.13	86.91	110.8	-23.89	peak
5875	80.94	-2.65	78.29	105.2	-26.91	peak
5925	53.68	-2.28	51.4	68.2	-16.8	peak

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

Operation Mode: 802.11ac/HT40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data at TESTING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	54.19	-2.06	52.13	68.2	-16.07	peak
5700	80.67	-1.96	78.71	105.2	-26.49	peak
5720	90.13	-2.87	87.26	110.8	-23.54	peak
5725	104.44	-2.14	102.3	122.2	-19.9	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	51.85	-2.06	49.79	68.2	-18.41	peak
5700	85.39	-1.96	83.43	105.2	-21.77	peak
5720	91.51	-2.87	88.64	110.8	-22.16	peak
5725	107.58	-2.14	105.44	122.2	-16.76	peak

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

Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	D. A. W. TESTING	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
5850	106.41	-1.97	104.44	122.2	-17.76	peak	
5855	88.56	-2.13	86.43	110.8	-24.37	peak	
5875	81.96	-2.65	79.31	105.2	-25.89	peak	
5925	51.43	-2.28	49.15	68.2	-19.05	peak	

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

Vertical:

	1020	102	1020		102	102
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Doto otor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	111.66	-1.97	109.69	122.2	-12.51	peak
5855	89.13	-2.13	87	110.8	-23.8	peak
5875	83.64	-2.65	80.99	105.2	-24.21	peak
5925	55.71	-2.28	53.43	68.2	-14.77	peak

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

Remark:

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



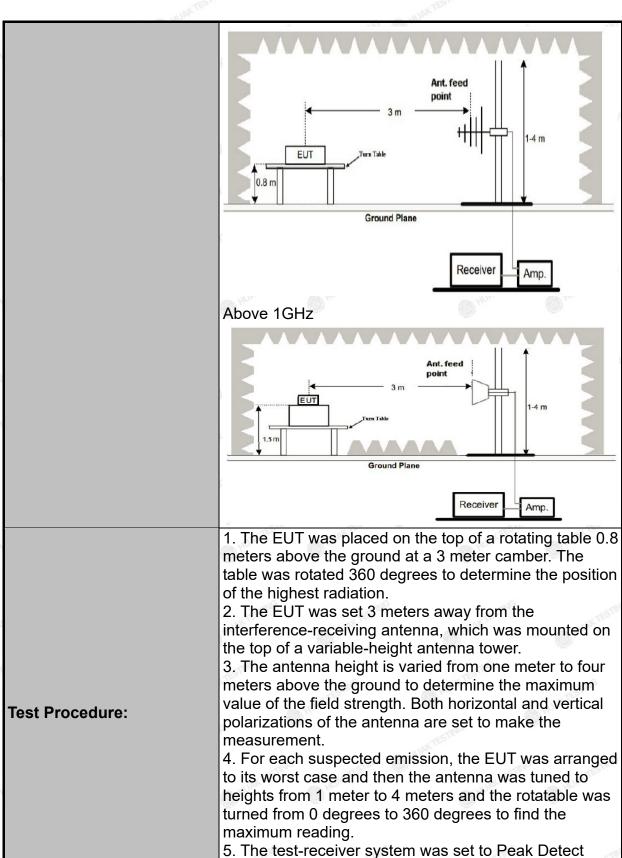


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4.7. Spurious Emission

4.7.1.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205					
Test Method:	KDB 789033	D02 v02r0)1	D HOP	(I) HOW	
Frequency Range:	9kHz to 40G	Hz		TESTING		
Measurement Distance:	3 m	AKTESTING	(1) III	Der	LAKTESTING	
Antenna Polarization:	Horizontal &	Vertical		m/G		
Operation mode:	Transmitting mode with modulation					
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz	Detector Quasi-peak Quasi-peak Quasi-peak Peak Peak	RBW 200Hz 9kHz 120KHz 1MHz 1MHz	VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value	
Limit:	(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) 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. The limit of frequency below 1GHz and which fall in restricted b ands should complies 15.209.					
Test setup:	For radiated emissions below 30MHz RX Antenna Ground Plane Receiver					
	30MHz to 10	SHz	are the	AKTESTI	STING	



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Function and Specified Bandwidth with Maximum Hold

Mode.

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		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	s:	PASS



4.7.2. Test Data

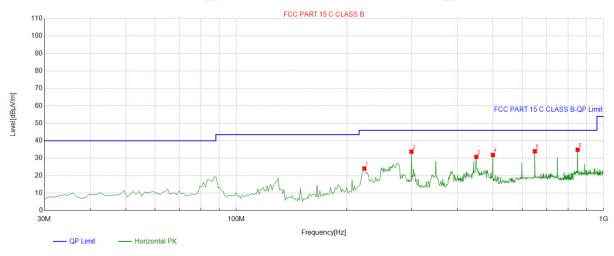
Test mode: TX 802.11a 5745MHz

All the test modes completed for test. The worst case of Radiated Emission; the test data of this mode was reported.

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Below 1GHz

Horizontal

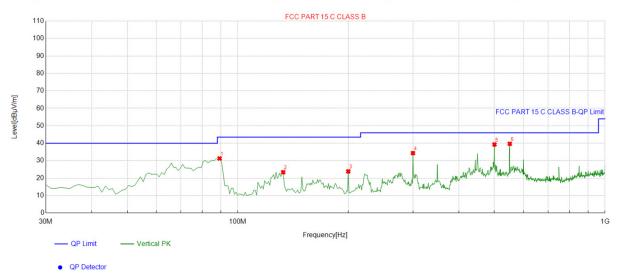


QP Detector

Suspe	Suspected List												
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle					
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	223.22322	-14.15	38.20	24.05	46.00	21.95	100	294	Horizontal				
2	299.92993	-11.71	45.44	33.73	46.00	12.27	100	166	Horizontal				
3	450.43043	-8.80	39.58	30.78	46.00	15.22	100	40	Horizontal				
4	499.94995	-8.17	40.07	31.90	46.00	14.10	100	40	Horizontal				
5	650.45045	-5.14	39.11	33.97	46.00	12.03	100	193	Horizontal				
6	850.47047	-1.46	36.31	34.85	46.00	11.15	100	140	Horizontal				

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

Vertical



S	Suspected List												
<		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle				
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
	1	89.229229	-16.75	48.03	31.28	43.50	12.22	100	150	Vertical			
	2	132.92292	-17.24	40.65	23.41	43.50	20.09	100	5	Vertical			
	3	199.91992	-15.09	38.96	23.87	43.50	19.63	100	266	Vertical			
L	4	299.92993	-11.71	46.08	34.37	46.00	11.63	100	308	Vertical			
0	5	499.94995	-8.17	47.47	39.30	46.00	6.70	100	216	Vertical			
	6	550.44044	-7.13	46.81	39.68	46.00	6.32	100	216	Vertical			

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

Harmonics and Spurious Emissions Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
UAR HU'	HUAN HU	HUND WHO!
!		
TING	-TING	STING

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

2. The emission 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 CH 149 (802.11 a Mode with 5.8G)/5745

Horizontal:

	-4Dlb-		-4MP	- 1 D3 -		407/2
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	54.73	-4.59	50.14	68.2	-18.06	peak
11096	43.84	4.21	48.05	74	-25.95	peak
11096	42.53	4.21	46.74	54	-7.26	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	54.93	-4.59	50.34	68.2	-17.86	peak
11096	46.27	4.21	50.48	74	-23.52	peak
11096	41.53	4.21	45.74	54	-8.26	AVG

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



MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	53.43	-4.59	48.84	68.2	-19.36	peak
10523	51.73	4.21	55.94	68.2	-12.26	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	54.42	-4.59	49.83	68.2	-18.37	peak
10523	51.18	4.21	55.39	68.2	-12.81	peak

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

HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Des MUNK TEST	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
2705	56.47	-4.59	51.88	74	-22.12	peak	
2705	42.36	-4.59	37.77	54	-16.23	AVG	
11717	50.98	4.84	55.82	74	-18.18	peak	
11717	41.52	4.84	46.36	54	-7.64	AVG	

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

Vertical:

The Third	A TEL	1, 7, 200	TEN		"TEC	W. The
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	53.67	-4.59	49.08	74	-24.92	peak
2705	44.91	-4.59	40.32	54	-13.68	AVG
11717	51.46	4.84	56.3	74	-17.7	peak
11717	40.69	4.84	45.53	54	-8.47	AVG

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

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 record 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.

5.8G 802.11n/HT20 Mode

LOW CH 149

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	58.75	-4.59	54.16	68.2	-14.04	peak
11096	51.33	4.21	55.54	74	-18.46	peak
11096	42.19	4.21	46.4	54	-7.6	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	55.79	-4.59	51.2	68.2	-17	peak
11096	52.27	4.21	56.48	74	-17.52	peak
11096	40.71	4.21	44.92	54	-9.08	AVG

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

MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
3172	58.56	-4.59	53.97	68.2	-14.23	peak
10523	51.13	4.21	55.34	68.2	-12.86	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
3172	54.07	-4.59	49.48	68.2	-18.72	peak
10523	51.48	4.21	55.69	68.2	-12.51	peak

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

HIGH CH165

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Des HUNK TEST
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	56.85	-4.59	52.26	74	-21.74	peak
2705	42.72	-4.59	38.13	54	-15.87	AVG
11717	51.49	4.84	56.33	74	-17.67	peak
11717	40.47	4.84	45.31	54	-8.69	AVG

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

Vertical:

- 1/ /-	1. 1.	- 4/ / /	11		11 10	11.12
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	57.73	-4.59	53.14	74	-20.86	peak
2705	43.19	-4.59	38.6	54	_s -15.4	AVG
11717	51.29	4.84	56.13	74	-17.87	peak
11717	41.54	4.84	46.38	54	-7.62	AVG

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

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 record 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



5.8G 802.11n/HT40 Mode

LOW CH 151

Horizontal:

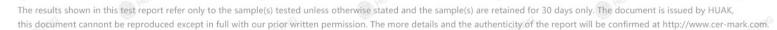
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
res s	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	3368	60.56	-4.59	55.97	68.2	-12.23	peak
	11096	54.24	4.21	58.45	74	-15.55	peak
	11096	32.46	4.21	36.67	54	-17.33	AVG

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

Vertical:

-1.37	4.37	1.1	11 17		4.37	-1.17
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	60.28	-4.59	55.69	68.2	-12.51	peak
11096	50.94	4.21	55.15	74	-18.85	peak
11096	35.22	4.21	39.43	54	-14.57	AVG
417	77 3 31 3 3 SARTE		4174	170.007	2000	

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





MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	60.44	-4.59	55.85	68.2	-12.35	peak
10523	51.41	4.21	55.62	68.2	-12.58	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data at an Tama
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	52.02	-4.59	47.43	68.2	-20.77	peak
10523	51.09	4.21	55.3	68.2	-12.9	peak

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

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 record 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.

5.8G 802.11ac/HT20 Mode

LOW CH 149

Horizontal:

4002	662	400	/	1002	1000
Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
55.43	-4.59	50.84	68.2	-17.36	peak
50.25	4.21	54.46	74	-19.54	peak
43.12	4.21	47.33	54	-6.67	AVG
	(dBµV) 55.43 50.25	(dBµV) (dB) 55.43 -4.59 50.25 4.21	(dBμV) (dB) (dBμV/m) 55.43 -4.59 50.84 50.25 4.21 54.46	(dBμV) (dB) (dBμV/m) (dBμV/m) 55.43 -4.59 50.84 68.2 50.25 4.21 54.46 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 55.43 -4.59 50.84 68.2 -17.36 50.25 4.21 54.46 74 -19.54

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	54.22	-4.59	49.63	68.2	-18.57	peak
11096	53.77	4.21	57.98	74	-16.02	peak
11096	41.33	4.21	45.54	54	-8.46	AVG

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



MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
3172	54.68	-4.59	50.09	68.2	-18.11	peak
10523	46.72	4.21	50.93	68.2	-17.27	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	53.86	-4.59	49.27	68.2	-18.93	peak
10523	50.76	4.21	54.97	68.2	-13.23	peak

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

HIGH CH165

Horizontal:

-allo	Sla-		Mari	Slan	Sla	lan
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	55.42	-4.59	50.83	74	-23.17	peak
2705	44.21	-4.59	39.62	54	-14.38	AVG
11717	52.18	4.84	57.02	74	-16.98	peak
11717	42.19	4.84	47.03	54	-6.97	AVG
EST	TE-12.10	7.07	THE TIME TEST	01	0.01	

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

Vertical:

4 1	4 1	4/1/	4		4 1	7.15
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	56.18	-4.59	51.59	74	-22.41	peak
2705	43.71	-4.59	39.12	54	-14.88	AVG
11717	52.63	4.84	57.47	74	-16.53	peak
11717	40.76	4.84	45.6	54	-8.4	AVG

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

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 record 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.



5.8G 802.11ac/HT40 Mode

LOW CH 151

Horizontal:

V		4000	400 M	400		400 100
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	55.46	-4.59	50.87	68.2	-17.33	peak
11096	50.06	4.21	54.27	74	-19.73	peak
11096	35.26	4.21	39.47	54	-14.53	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	WINN,
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	57.61	-4.59	53.02	68.2	-15.18	peak
11096	52.02	4.21	56.23	74	。 -17.77	peak
11096	40.11	4.21	44.32	54	-9.68	AVG

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

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 record 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:	Temperature Chamber 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 HAR TESTING WHATESTING THAT TESTING THAT TESTING
Remark:	N/A

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

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Test Result as follows:

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	4.25V	5744.981	-19	5825.008	8
	5V	5745.011	11	5824.971	-29
	5.75V	5744.989	-11	5824.982	-18

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
3	-30	5744.961	-39	5825.016	16
MHAKTE MAKTE	-20	5745.014	14	5825.012	12
	-10	5744.986	-14	5824.989	-11
V TESTING	O HUMET	5744.975	-25	5824.979	-21
5.8G Band	10	5744.962	-38	5825.023	23
	20	5745.019	19	5824.981	-19
STINGAK TEST	30	5744.992	-8	5824.977	-23
	40	5744.983	-17	5824.969	-31
	50	5744.971	-29	5825.006	6

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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. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Report No.: HK2412067520-3E

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, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 1.66dBi.

Antenna



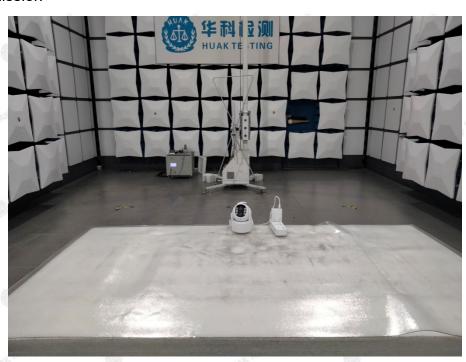
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

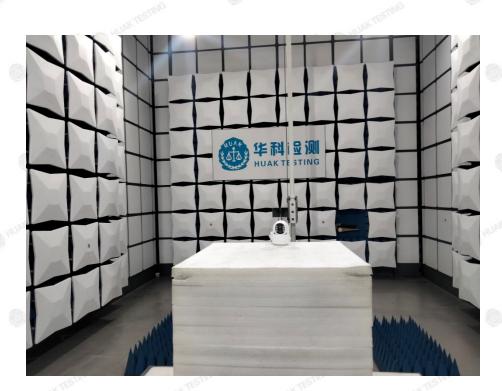
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



5. Photographs of Test Setup

Radiated Emission





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Conducted Emission



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6. Photos of the EUT

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

End of test report----