

FCC TEST REPORT

Test report
On Behalf of
Winner Wave Limited
For

EZC-5601

Model No.: EZC-5601, RBT-5600

FCC ID: 2ADFS-EZC-5601

Prepared For: Winner Wave Limited

Unit 1615 Peninsula Tower,538 Castle Peak Road, Lai Chi Kok, Kowloon, Hong

Kong

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

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

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Date of Test: Jul. 26, 2022 ~ Aug. 02, 2022

Date of Report: Aug. 02, 2022

Report Number: HK2207193140-3E

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TEST RESULT CERTIFICATION

Applicant's name	Winner Wave	Limited
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Address Unit 1615 Peninsula Tower,538 Castle Peak Road, Lai Chi

Kok, Kowloon, Hong Kong

Manufacture's Name...... Actions Microelectronics Co., Ltd.

Address 201, No.9 Building, Software Park, KeJiZhongEr Road,

GaoXinQu, NanShan, Shenzhen, China

Product description

Trade Mark: EZCast, RedBirdtek

Product name: EZC-5601

Model and/or type reference :: EZC-5601, RBT-5600

FCC Rules and Regulations Part 15 Subpart E Section

Standards 15.407

ANSI C63.10: 2013

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Date of Test

Date (s) of performance of tests Jul. 26, 2022 ~ Aug. 02, 2022

Date of Issue...... Aug. 02, 2022

Test Result Pass

Testing Engineer :

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

9

(Jason Zhou)





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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Aug. 02, 2022	Jason Zhou
- CTING	STING	TING	



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 MAKTES
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	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:	EZC-5601	
Model Name:	EZC-5601	WHING IT
Serial Model:	RBT-5600	TESTING
Model Difference:	All model's the function, software same, only with a product color, different. Test sample model: EZ	appearance and model named
Trade Mark:	EZCast, RedBirdtek	
FCC ID:	2ADFS-EZC-5601	HARTESIN
Operation Frequency:	IEEE 802.11a/n/ac/ax(HT20)5.74 IEEE 802.11n/ac/ax(HT40)5.755 IEEE 802.11ac/ax(HT80) 5.7750	GHz-5.795GHz
Modulation Technology:	IEEE 802.11a/n/ac/ax	
Modulation Type:	OFDM, OFDMA	Time
Antenna Type:	Internal Antenna	WAY TESTING
Antenna Gain:	Antenna 1:2.2dBi Antenna 2:2.2dBi MIMO: 5.21dBi	HUANTES TING
Power Source:	DC 5V From PC	
Power Supply:	DC 5V From PC	S THIS
Hardware Version:	V1.01	HUAKTE
Software Version:	V1.0	LEAT TESTINE

Note: The EUT incorporates a MIMO function. Physically, it provides two completed transmitt ers and receivers(2T2R), two transmit signals are completely correlated, then, Direction gain=GANT + Array Gain(Array Gain=10 log(2) dB for power spectral density; Array Gain=0 for power measurement)

2.2. OPERATION FREQUENCY EACH OF CHANNEL

P	802.11	02.11n(HT20) ac(HT20) ax(HT20)	802.11	n(HT40)/ ac(HT40) ax(HT40)		ac(HT80) ax(HT80)
	Channel	Frequency	Channel	Frequency	Channel	Frequency
ś w	149	5745	151	5755	155	5775
	153	5765	159	5790	(1) Marie 1	WAK TEST
	157	5785	- G			9
	161	5805			CAK TESTIN	
	165	5825	STING	TESTING OF	-5	NG TESTING

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

PRODUCE A	The state of the s	PRODUCT.	
	Band IV (5725 - 5850 MHz	2)	
For 802.11a/n (HT20)/ac(HT20)/axHT20)			
Channel Number	Channel	Frequency (MHz)	
149	Low	5745	
157	Mid	5785	
165	High	5825	

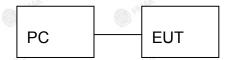
For 802.11r	n (HT40)/ ac(HT40))/axHT40)
Channel Number	Channel	Frequency (MHz)
151	Low	5755
159	High	5795

For 802.11ac(HT80)/ax(HT80)		
Channel Number	Channel Frequency (MHz)	
155	TESTING TESTING	5775



2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during testing:



PC information Model: TP00067A

Input: DC20V, 2.25-3.25A Output: 5VDC, 0.5A

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



3. GENERA INFORMATION

Operation mode:

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)

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	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(HT20)/ac(HT40)/ac(HT80)	MCS0
802.11ax(HT20)/ax(HT40)/ax(HT80)	MCS0
802.11ax(HT20)/ax(HT40)/ax(HT80) Final Test Mode:	MCS0
Operation mode:	Keep the EUT in continuous transmitting

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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
/	IG I HUAN TESTIN	I TESTING	HUAKTESTA	1 TESTING

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 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.

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4. TEST RESULTS AND MEASUREMENT DATA

CONDUCTED EMISSION

4.1.1. Test Specification

STINE	STIME	Line - S	THE STATE OF THE S
Test Requirement:	FCC Part15 C Section	n 15.207	MIAK L
Test Method:	ANSI C63.10:2013	ESTING	
Frequency Range:	150 kHz to 30 MHz	HUAREL	"IAK TESTING
Receiver setup:	RBW=9 kHz, VBW=30	0 kHz, Sweep time	e=auto
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50
Test Setup:	Reference 40cm 40cm E.U.T AC power and the	EMI Receiver	— AC power
Test Mode:	Tx Mode		
Test Procedure:	1. The E.U.T and simpower through a lin (L.I.S.N.). This primpedance for the result of the power through a Least coupling impedance refer to the block photographs). 3. Both sides of A.C conducted interfere emission, the relative the interface cable ANSI C63.10: 2013	ne impedance state ovides a 50 ohm measuring equipm ces are also connects. ISN that provides with 50 ohm term diagram of the cline are checked ince. In order to fing the constitute of the constitute of the change	pilization network of 1/50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and ed for maximum of the maximum ipment and all of jed according to
Test Result:	Pass	HUAKTES	HUAKTES

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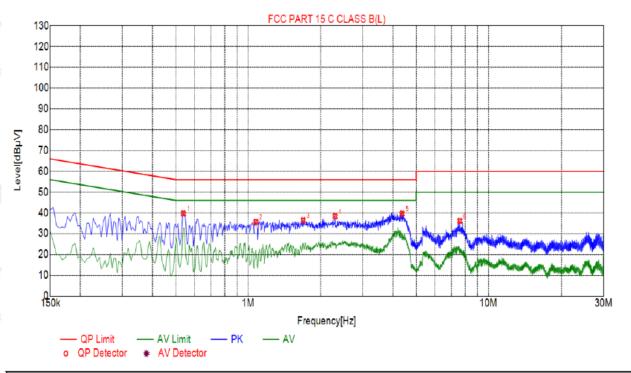
4.1.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Receiver	R&S	ESR-7	HKE-010	Feb. 18, 2022	Feb. 17, 2023	
LISN	R&S	ENV216	HKE-002	Feb. 18, 2022	Feb. 17, 2023	
Coax cable (9KHz-30MHz)	Times	381806-00 2	N/A	Feb. 18, 2022	Feb. 17, 2023	
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	M/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).

4.1.3. Test data

Test Specification: Line

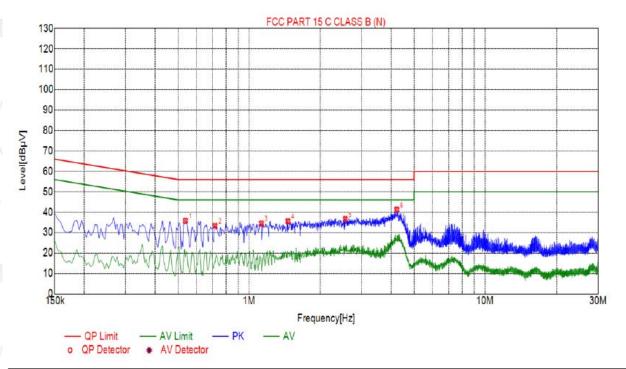


Sus	spected	l List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBμV]	Detector	Туре
1	0.5370	39.69	20.05	56.00	16.31	19.64	PK	L
2	1.0770	35.61	20.07	56.00	20.39	15.54	PK	L
3	1.6935	36.44	20.13	56.00	19.56	16.31	PK	L
4	2.3010	38.30	20.18	56.00	17.70	18.12	PK	L
5	4.3710	39.60	20.25	56.00	16.40	19.35	PK	L
6	7.6065	36.11	20.17	60.00	23.89	15.94	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 [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.5370	35.76	20.05	56.00	20.24	17.71	PK	N
2	0.7170	33.36	20.05	56.00	22.64	15.31	PK	N
3	1.1265	34.48	20.08	56.00	21.52	16.40	PK	N
4	1.4595	35.57	20.10	56.00	20.43	17.47	PK	N
5	2.5575	36.61	20.20	56.00	19.39	18.41	PK	N
6	4.2270	41.24	20.25	56.00	14.76	22.99	PK	N

Remark: Margin = Limit - Level

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



AK TESTING

Report No.: HK2207193140-3E

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)					
	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					

4.2.2. Test Instruments

SOUN ROLL		5000	1003	SOUN V	1,873		
	RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023		
Power meter	Agilent	E4419B	HKE-085	Feb. 18, 2022	Feb. 17, 2023		
Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	Feb. 17, 2023		
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023		

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

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Test Data

	Coi	nfiguration Band I	V (5725 - 5850 MHz)		
Mode	Test channel	Maximum Output Po	FCC Limit	Result	
	ondriner	Antenna port 1 Antenna port 2		(dBm)	
11a	CH149	10.20	11.31	30	PASS
11a	CH157	10.95	11.42	30	PASS
11a	CH165	11.26	11.69	30	PASS
11n(HT20)	CH149	10.20	11.32	30	PASS
11n(HT20)	CH157	10.95	11.03	30	PASS
11n(HT20)	CH165	11.00	11.16	30	PASS
11n(HT40)	CH151	10.95	11.67	30	PASS
11n(HT40)	CH159	11.03	11.53	5 ¹¹¹⁰ 30	PASS
11ac(HT20)	CH149	10.33	11.54	30	PASS
11ac(HT20)	CH157	10.00	11.14	30	PASS
11ac(HT20)	CH165	10.73	11.38	30	PASS
11ac(HT40)	CH151	10.78	11.03	30	PASS
11ac(HT40)	CH159	11.00	11.27	30	PASS
11ac(HT80)	CH155	10.52	11.36	30	PASS
11ax(HT20)	CH149	10.37	11.51	30	PASS
11ax(HT20)	CH157	10.86	11.54	30	PASS
11ax(HT20)	CH165	10.55	11.20	₅ 30	PASS
11ax(HT40)	CH151	11.21	11.38	30	PASS
11ax(HT40)	CH159	11.41	10.98	30	PASS
11ax(HT80)	CH155	11.04	11.43	30	PASS





TING	TSTING OF THE	TING STING W	TING	TSTING
	Configurat	tion Band IV (5725 - 5850 MH	z)	
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit	Result
		MIMO	(dBm)	
11n(HT20)	CH149	13.81	30	PASS
11n(HT20)	CH157	14.41	30	PASS
11n(HT20)	CH165	14.63	30	PASS
11n(HT40)	CH151	14.90	30	PASS
11n(HT40)	CH159	14.85	30	PASS
11ac(HT20)	CH149	13.99	30	PASS
11ac(HT20)	CH157	13.62	30	PASS
11ac(HT20)	CH165	14.30	30	PASS
11ac(HT40)	CH151	13.92	30	PASS
11ac(HT40)	CH159	14.37	30	PASS
11ac(HT80)	CH155	14.12	30	PASS
11ax(HT20)	CH157	13.99	30	PASS
11ax(HT20)	CH165	14.22	30	PASS
11ax(HT20)	CH165	13.90	30	PASS
11ax(HT40)	CH151	14.31	30	PASS
11ax(HT40)	CH159	14.21	30	PASS
11ax(HT80)	CH155	14.60	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 ISTING MAN TESTING WAY TESTING MAY TESTING

4.3.2. Test Instruments

-all2	- Clin	Clar	cline	Clin	-nll2
		RF Te	est Room		
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023
RF cable	Times	⁶ 1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023

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

4.3.3. Test data

ANT 1

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Band IV (5725 - 5850 MHz)							
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result		
11a	CH149	5745	15.800	0.5	PASS		
11a	CH157	5785	16.320	0.5	PASS		
11a	CH165	5825	15.680	0.5	PASS		
11n(HT20)	CH149	5745	17.320	0.5	PASS		
11n(HT20)	CH157	5785	17.200	0.5	PASS		
11n(HT20)	CH165	5825	17.080	0.5	PASS		
11n(HT40)	CH151	5755	36.000	0.5	PASS		
11n(HT40)	CH159	5795	35.920	0.5	PASS		
11ac(HT20)	CH149	5745	17.120	0.5	PASS		
11ac(HT20)	CH157	5785	17.120	0.5	PASS		
11ac(HT20)	CH165	5825	17.240	0.5	PASS		
11ac(HT40)	CH151	5755	35.840	0.5	PASS		
11ac(HT40)	CH159	5795	35.600	0.5	PASS		
11ac(HT80)	CH155	5775	76.000	0.5	PASS		
11ax(HT20)	CH149	5745	18.760	0.5	PASS		
11ax(HT20)	CH157	5785	17.720	0.5	PASS		
11ax(HT20)	CH165	5825	17.480	0.5	PASS		
11ax(HT40)	CH151	5755	36.640	0.5	PASS		
11ax(HT40)	CH159	5795	37.440	0.5	PASS		
11ax(HT80)	CH155	5775	77.440	0.5	PASS		

Test plots as follows:







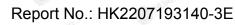
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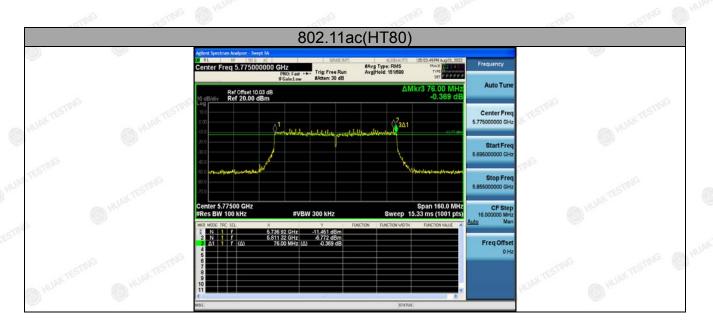












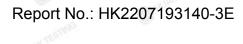
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK,

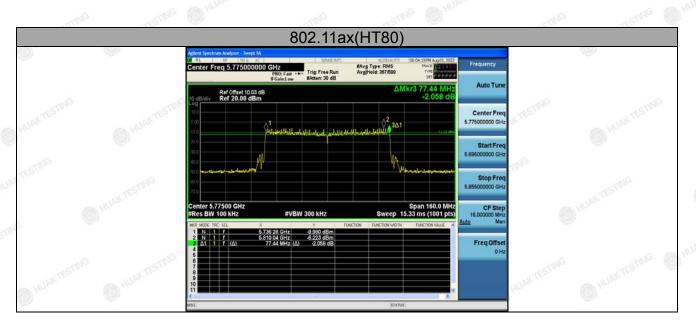
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Band IV (5725 - 5850 MHz)					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
11a 🌑	CH149	5745	16.320	0.5	PASS
11a	CH157	5785	16.080	0.5	PASS
11a	CH161	5825	15.920	0.5	PASS
11n(HT20)	CH149	5745	16.840	0.5	PASS
11n(HT20)	CH157	5785	17.120	0.5	PASS
11n(HT20)	CH161	5825	17.120	0.5	PASS
11n(HT40)	CH151	5755	35.360	0.5	PASS
11n(HT40)	CH159	5795	35.920	0.5	PASS
11ac(HT20)	CH149	5745	17.560	0.5	PASS
11ac(HT20)	CH157	5785	17.200	0.5	PASS
11ac(HT20)	CH165	5825	16.960	0.5	PASS
11ac(HT40)	CH151	5755	35.280	0.5	PASS
11ac(HT40)	CH159	5795	35.920	0.5	PASS
11ac(HT80)	CH155	5775	76.480	0.5	PASS
11ax(HT20)	CH149	5745	18.240	0.5	PASS
11ax(HT20)	CH157	5785	17.680	0.5	PASS
11ax(HT20)	CH165	5825	18.000	0.5	PASS
11ax(HT40)	CH151	5755	36.640	0.5	PASS
11ax(HT40)	CH159	5795	36.560	0.5	PASS
11ax(HT80)	CH155	5775	77.440	0.5	PASS

Test plots as follows:







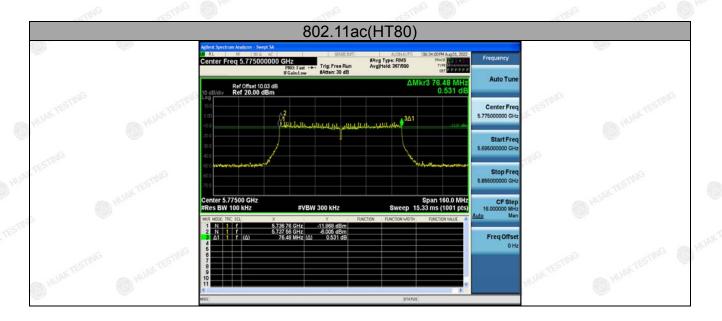








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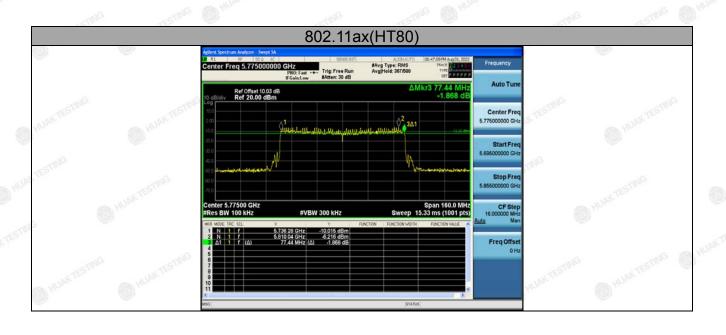












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4.4. 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

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 MATTESTING

4.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023		
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023		

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

4.4.3. Test Result

N/A

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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:	≤30.00dBm/500KHz for Band IV 5725MHz-5850MHz				
Test Setup:	THE REPORT TO SHAPE THE SH				
	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 Manufacture		Model Serial Number		Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023		
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023		

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

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4.5.3. Test data

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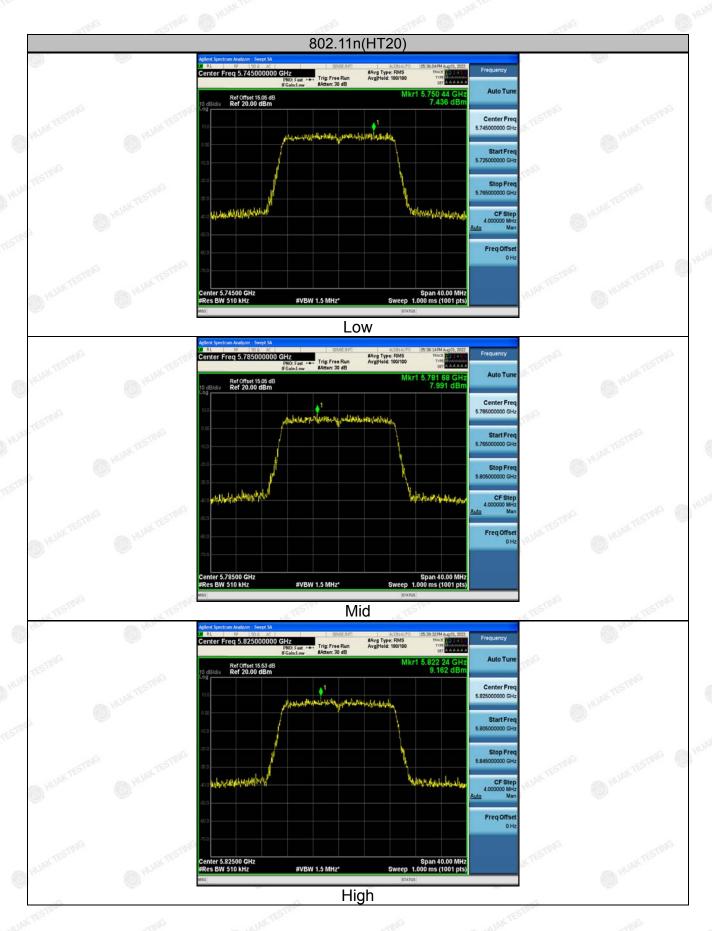
Mode	Test channel	Level [dBm/510kHz]	10log(500/ 510)	Power Spectral Density	Limit (dBm/500kH z)	Result
11a	CH149	3.8	-0.086	3.714	30	PASS
11a	CH157	4.48	-0.086	4.394	30	PASS
11a	CH165	6.84	-0.086	6.754	30	PASS
11n HT20	CH149	7.44	-0.086	7.354	30	PASS
11n HT20	CH157	7.99	-0.086	7.904	30	PASS
11n HT20	CH165	9.16	-0.086	9.074	30	PASS
11n HT40	CH151	7.63	-0.086	7.544	30	PASS
11n HT40	CH159	7.99	-0.086	7.904	30	PASS
11ac HT20	CH149	8.43	-0.086	8.344	ESTING 30	PASS
11ac HT20	CH157	7.55	-0.086	7.464	30	PASS
11ac HT20	CH165	8.36	-0.086	8.274	30	PASS
11ac HT40	CH151	7.36	-0.086	7.274	30	PASS
11ac HT40	CH159	7.17	-0.086	7.084	30	PASS
11ac HT80	CH155	7.17	-0.086	7.084	30	PASS
11ax HT20	CH149	9.25	-0.086	9.164	30	PASS
11ax HT20	CH157	9.29	-0.086	9.204	30	PASS
11ax HT20	CH165	10.83	-0.086	10.744	30	PASS
11ax HT40	CH151	7.72	-0.086	7.634	ESTING 30	PASS
11ax HT40	CH159	10.2	-0.086	10.114	30	PASS
11ax HT80	CH155	8.73	-0.086	8.644	30	PASS

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

Test plots as follows:

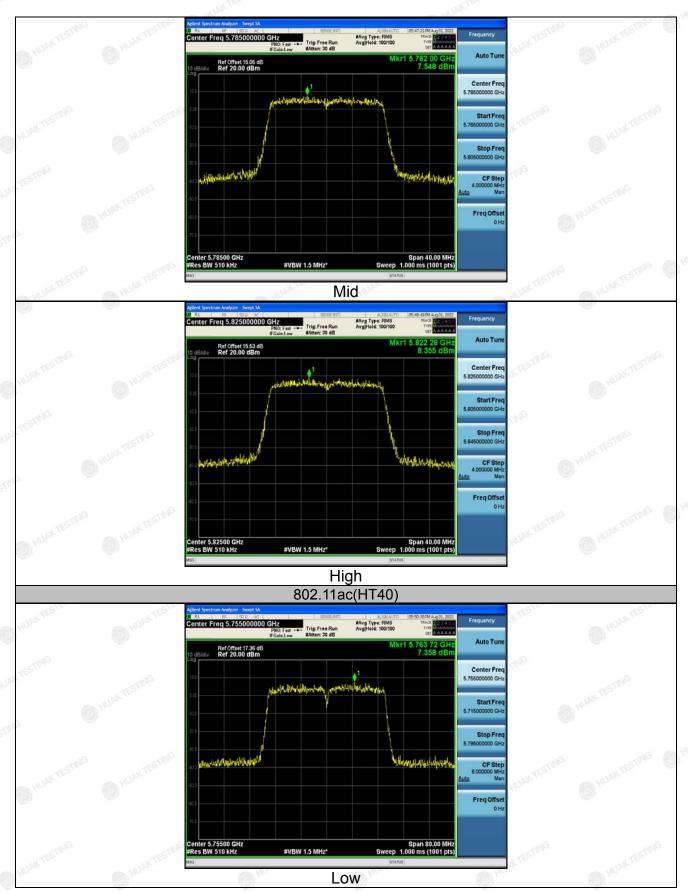


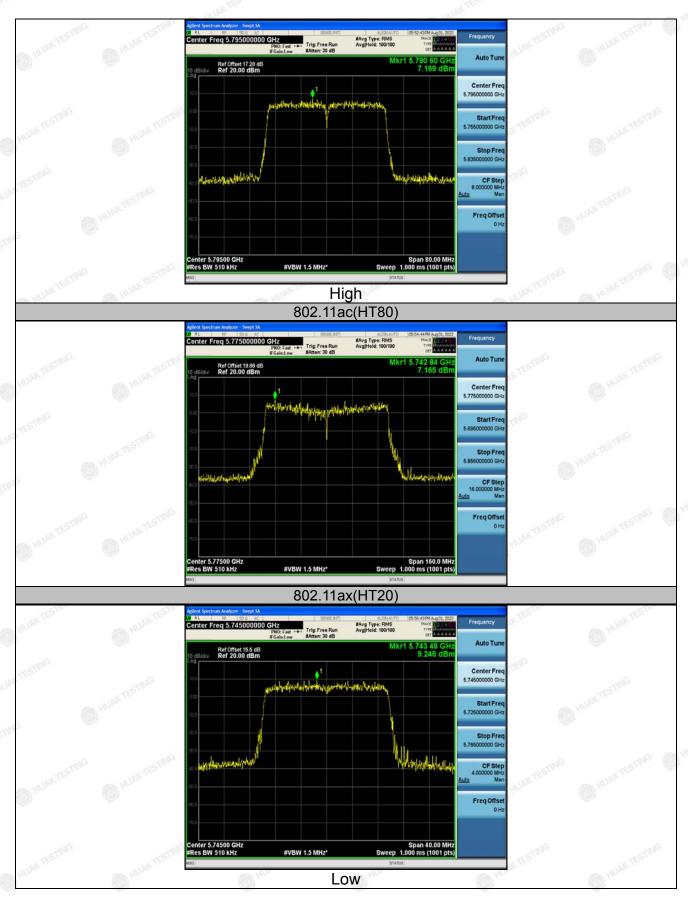


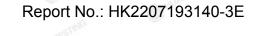


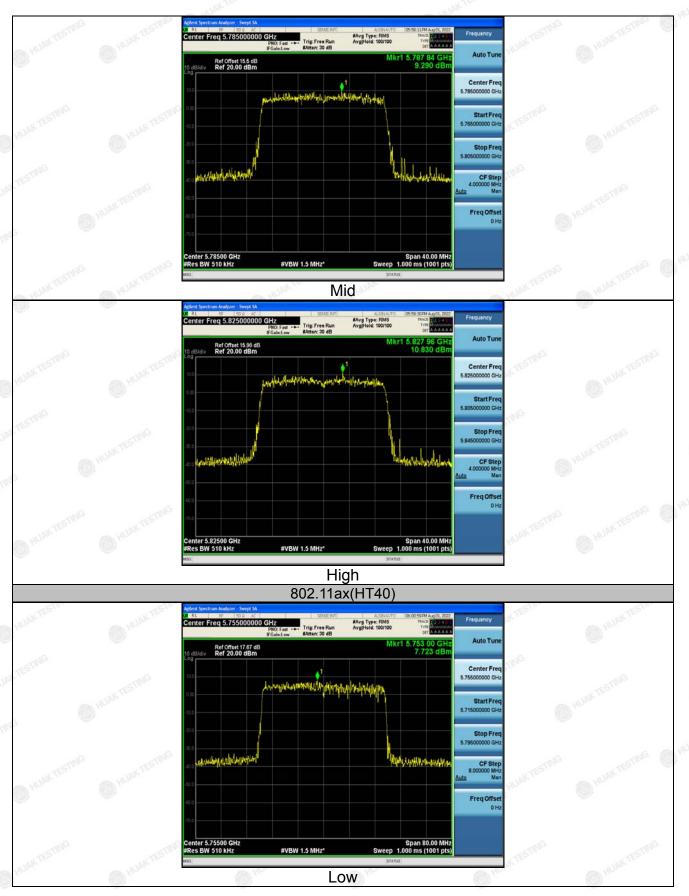




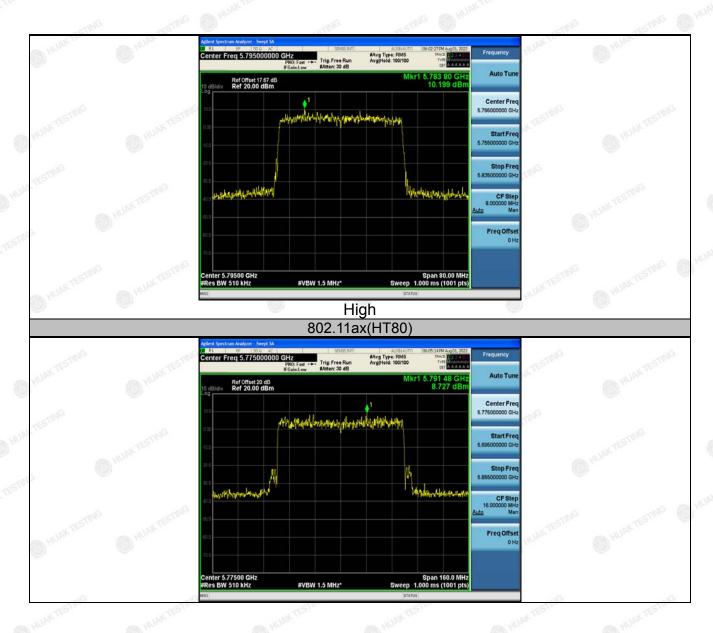
















Configuratio	n Band IV (5	5725 - 5850 MHz	2)			
Mode	Test channel	Level [dBm/510kHz]	10log(500/5 10)	Power Spectral Density	Limit (dBm/500kH z)	Result
11a	CH149	6.85	-0.086	6.764	30	PASS
روس ^{ان} 11a	CH157	8.94	-0.086	8.854	30 and	PASS
11a	CH161	8.37	-0.086	8.284	30	PASS
11n(HT20)	CH149	8.52	-0.086	8.434	30	PASS
11n(HT20)	CH157	9.64	-0.086	9.554	30	PASS
11n(HT20)	CH161	9.04	-0.086	8.954	30	PASS
11n(HT40)	CH151	7.91	-0.086	7.824	30	PASS
11n(HT40)	CH159	8.63	-0.086	8.544	30	PASS
11ac(HT20)	CH149	7.94	-0.086	7.854	30 are 1	PASS
11ac(HT20)	CH157	8.79	-0.086	8.704	30	PASS
11ac(HT20)	CH161	8.79	-0.086	8.704	30	PASS
11ac(HT40)	CH151	7.32	-0.086	7.234	30	PASS
11ac(HT40)	CH159	7.53	-0.086	7.444	30	PASS
11ac(HT80)	CH155	7.34	-0.086	7.254	30	PASS
11ax(HT20)	CH149	10.14	-0.086	10.054	30	PASS
11ax(HT20)	CH157	10.08	-0.086	9.994	30	PASS
11ax(HT20)	CH161	10.26	-0.086	10.174	30	PASS
11ax(HT40)	CH151	10.52	-0.086	10.434	AK TESTIM 30	PASS
11ax(HT40)	CH159	10.54	-0.086	10.454	30	PASS
11ax(HT80)	CH155	7.92	-0.086	7.834	30	PASS

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

Test plots as follows:



