

Approved by:

# JianYan Testing Group Shenzhen Co., Ltd.

**Report No: JYTSZ-R12-2200073** 

25 Jan., 2022

# **UKCA RF Test Report**

(5GHz RLAN)

Applicant:	Nebra Ltd
Address of Applicant:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells, East Sussex, TN3 9BJ
<b>Equipment Under Test (E</b>	EUT)
Product Name:	Nebra Indoor LoRa Gateway ROCK Pi 4 Version / Nebra Indoor Helium Hotspot ROCK Pi 4 Version
Model No.:	NEBHNT-HHRK4-433, NEBHNT-HHRK4-470, NEBHNT-HHRK4-868, NEBHNT-HHRK4-915, NEBHNT-HHRK4-433-2, NEBHNT-HHRK4-470-2, NEBHNT-HHRK4-868-2, NEBHNT-HHRK4-915-2, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-915-3
Standards:	ETSI EN 301 893 V2.1.1 (2017-05)
Date of Receipt:	05 Jan., 2022
Date of Test:	06 Jan., to 24 Jan., 2022
Date of Issue:	25 Jan., 2022
Test Result:	PASS
Tested by:	Date: 25 Jan., 2022 st Engineer
Reviewed by:	Date: 25 Jan., 2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

Manager

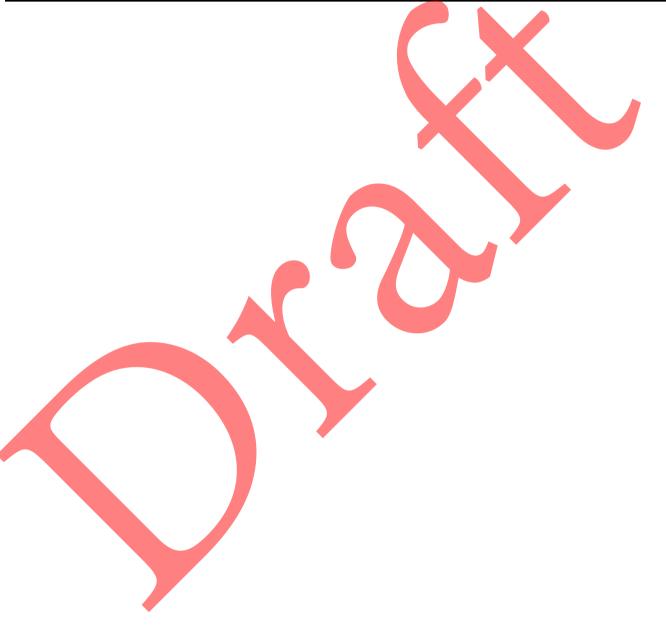
This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.





# 2 Version

Version No.	Date	Description
00	25 Jan., 2022	Original







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# 4 Test Summary

Test Items	Test Requirement	Test Method	Limit / Severity	Result	
	Radio Spectrum I	Matter (RSM) Part o	of Tx		
Centre frequencies	Clause 4.2.1	Clause 5.4.2	±20 ppm	PASS*	
Nominal Channel Bandwidth and Occupied Channel Bandwidth	Clause 4.2.2	Clause 5.4.3	>5MHz and 80%~100% Nominal Bandwidth	PASS*	
RF Output Power,EIRP	clause 4.2.3	Clause 5.4.4	Table 2	PASS*	
Power Spectrum Density	clause 4.2.3	Clause 5.4.4	Table 2	PASS*	
Transmitter unwanted emissions outside the 5 GHz RLAN bands	clause 4.2.4.1	clause 5.4.5	Table 4	PASS	
Transmitter unwanted emissions within the 5 GHz RLAN bands	clause 4.2.4.2	clause 5.4.6	Figure 1	PASS*	
Dynamic Frequency Selection (DFS)	ection clause 4.2.6 clause 5.4.8.2.1.6 clause			N/A	
Adaptivity (Channel AccessMechanism)	clause 4.2.7	clause 5.4.9	clause 4.2.7.3.3.3	PASS*	
User Access Restrictions	clause 4.2.9	clause 4.2.9	clause 4.2.9.2	PASS*	
	Radio Spectrum M	Ma <mark>tte</mark> r (RSM) Part o	f Rx		
Receiver spurious emissions	Receiver spurious emissions clause 4.2.5 clause 5.4.7				
Receiver Blocking	clause 4.2.8	clause 5.4.10	clause 4.2.8.4	PASS*	

#### Remark

- 1. Tx: In this whole report Tx (or tx) means Transmitter.
- 2. Rx: In this whole report Rx (or rx) means Receiver.
- 3. PASS: Meet the requirement.
- 4. Pass\*: Please refer to the report No.: BCTC2109795863-6E by Shenzhen BCTC Testing Co., Ltd, The module used by EUT in this report is that of Report BCTC2109795863-6E.





# **5** General Information

## **5.1 Client Information**

Applicant:	Nebra Ltd
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells, East Sussex, TN3 9BJ
Manufacturer:	Nebra Ltd
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells, East Sussex, TN3 9BJ

5.2 General Description of E.U.T.

J.Z General Desci	iption of E.C.T.							
Product Name:	Nebra Indoor LoRa Gateway ROCK Pi 4 Version / Nebra Indoor Helium Hotspot ROCK Pi 4 Version							
Model No.:	NEBHNT-HHRK4-433, NEBHNT-HHRK4-470, NEBHNT-HHRK4-868, NEBHNT-HHRK4-915, NEBHNT-HHRK4-433-2, NEBHNT-HHRK4-470-2, NEBHNT-HHRK4-868-2, NEBHNT-HHRK4-915-2, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-915-3, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-453-3, NEBHNT-HHRK4-453-3, NEBHNT-HHRK4-915-3							
Hardware version:	v1							
Software version:	781099d							
Operating Frequency:	Band 1: 5180MHz~5240MHz							
Nominal Bandwidth	20MHz: 802.11a 802.11n-HT20 802.11ac-VHT20							
	40MHz: 802.11n-HT40 802.11ac-VHT40							
	80MHz: 802.11-VHT80							
Channel Spacing:	10MHz							
Modulation:	OFDM							
Antenna Type:	EXternal Antenna							
Antenna Gain	1 dBi							
TPC:	Not support							
Device Classification:	☐ Frame Based Equipment							
Remark:	Model no.: NEBHNT-HHRK4-433, NEBHNT-HHRK4-470, NEBHNT-HHRK4-868,							
	NEBHNT-HHRK4-915, NEBHNT-HHRK4-433-2, NEBHNT-HHRK4-470-2,							
	NEBHNT-HHRK4-868-2, NEBHNT-HHRK4-915-2, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3,							
	NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3,							
	NEBHNT-HHRK4-915-3, The difference between the models is that the LoRa							
	Radio module used inside is different for each variant. Along with a respective							
	antenna for each region / frequency. The -2 and -3 flags at the end of the model							
	number relates to the specific chip part number for the main LoRa chip.							





### 5.3 Test environment and test mode

Operating Environment:							
Temperature: Normal: $15^{\circ}$ C ~ $35^{\circ}$ C, Extreme: $-20^{\circ}$ C ~ $+40^{\circ}$ C							
Humidity:	ty: 20 % ~ 75 % RH						
Atmospheric Pressure: 1008 mbar							
Voltage:	Nominal: 230Vac, Extreme: Low 207Vac, High 253Vac						
Test mode:							
Transmitting mode: Keep the EUT in continuously transmitting mode with modulation.							
Receiving mode: Keep the EUT in receiving mode.							
We have verified the construction and function in typical operation. All the test items were carried out with							
the FLIT in above test modes. And the test results are both the "worst case" and "worst setup" 6 Mhns for							

the EUT in above test modes. And the test results are both the "worst case" and "worst setup" 6 Mbps for 802.11a, 6.5 Mbps for 802.11n(HT20), 13.5 Mbps for 802.11n(HT40), 29.3 Mbps for 802.11ac(HT80).

## 5.4 Description of Support Units

The EUT has been tested as an independent unit.

## 5.5 Measurement Uncertainty

<u> </u>					
Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))				
Radio Frequency	±10ppm				
RF Power, Conducted	±1.5 dB				
RF Power, Radiated	±4.44 dB				
Spurious emission, Conducted	±3.0 dB				
Temperature	±2°C				
Humidity	±5 %				
Time	±10%				
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB				
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB				
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB				

**Note:** All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

# 5.6 Additions to, deviations, or exclusions from the method

Mo

# 5.7 Laboratory Facility

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

#### FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

#### ● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

#### • CNAS - Registration No.: CNAS L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

#### ● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a>

JianYan Testing Group Shenzhen Co., Ltd. Report Template No.: JYTSZ4b-105-C No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366





# 5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax:+86-755-23116366

Email: info-JYTee@lets.com, Website: http://jyt.lets.com

## 5.9 Test Instruments list

	Radiated Emission:									
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)					
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024					
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-03-2021	03-02-2022					
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022					
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022					
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022					
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022					
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	03-07-2021	03-06-2022					
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022					
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022					
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022					
Spectrum Analyzer	KEYSIGHT	N901 <mark>0B</mark>	WXJ004-2	10-27-2021	10-26-2022					
Signal Generator	Agilent	N51 <mark>73B</mark>	WXJ006-7	03-25-2021	03-24-2022					
Coaxial Cable (30MHz ~ 1GHz)	JYT	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022					
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022					
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022					
Coaxial Cable (18GHz ~ 40GHz)	JYT	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022					
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A						
Test Software	Tonscend	RE/RSE/RS Test System	Version: 3.0.0.1							



# 6 Technical requirements specification

## 6.1 Justification

The EUT and test equipment were configured for testing according to ETSI EN 301 893 V2.1.1 (2017-05). The EUT was tested in the normal operating mode to represent worst-case results during the final qualification test.

## 6.2 Test Configuration of EUT

Channel List of 5150MHz ~ 5250MHz								
802.11a/n(HT	20)/ac(HT20)	802.11n(HT4	40)/ac(HT40)	802.11ac(HT80)				
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)			
36	5180	38	519 <mark>0</mark>	42	5210			
40	5200	46	52 <mark>30</mark>					
44	5220							
48	5240							

#### Note:

- 1. Selected channel No.36 to perform the test of 802.11a/n(HT20)/ac(HT20).
- 2. Selected channel No.38 to perform the test of 802.11n(HT40)/ac(HT40).
- 3. Selected channel No.42 to perform the test of 802.11ac(HT80).

Test plan of 5150MHz ~ 5250MHz															
	Test Conditions		ions	Channel		Channel No. Modulated Mode				T	est m	ode			
Clause No.	AD/AIT	NN/1 T	ND/1.D/	00	20	40	20244-	802	.11n	<b></b>	302.11a	C)	F		N 1
NO.	NVNT	NVLT	NVHV	36	38	42	802.11a	HT20	HT40	HT20	HT40	HT80	Tx	Rx	Normal
4.2.4.1	√			√	<b>√</b>	1	7	V	V	1	<b>~</b>				
4.2.5	$\checkmark$			$\checkmark$	√			$\sqrt{}$		1		$\checkmark$			

#### Note

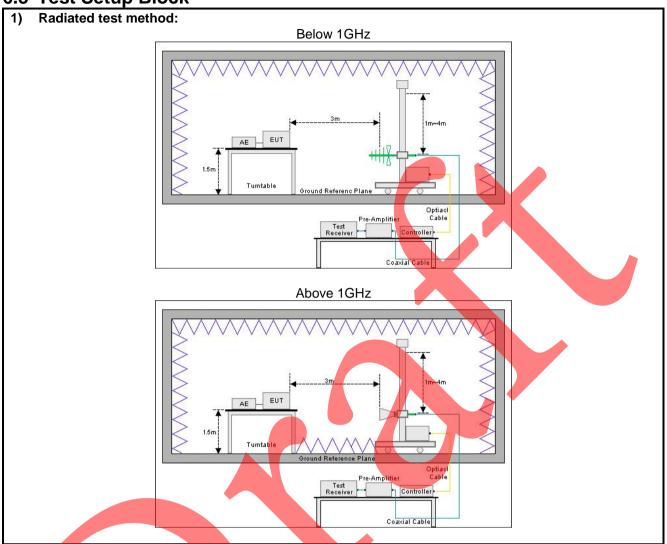
- 1. "√" means that this configuration is chosen for test.
- 2. "NVNT" means Normal Voltage Normal Temperature, "NVLT" means Normal Voltage Low Temperature, "NVHT" means Normal Voltage High Temperature.
- 3. Clause No.: "4.2.3" was Power Density test item.

JianYan Testing Group Shenzhen Co., Ltd. Report Template No.: JYTSZ4b-105-C No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366

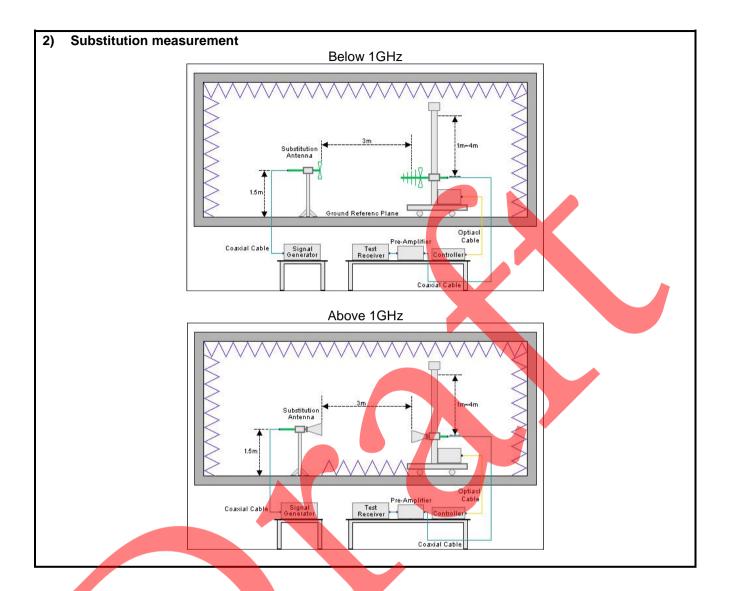




6.3 Test Setup Block











## 6.4 Test Results

## 6.4.1 Test Result Summary

Test Frequency Range: 5150MHz ~ 5250MHz									
Clause No.	Mode	Test Condition	Test Data	Verdict					
		NVNT							
		LVLT	Refer to the report.:						
4.2.1	UNMODULATION	LVHT	BCTC2109795863-6E	Pass					
		HVLT	BC1C2109793803-0E						
		HVHT							
	802.11 a & n(HT20) &		Refer to the report.:						
4.2.2	n(HT40) & ac(HT20) &	NVNT	BCTC2109795863-6E	Pass					
	ac(HT40) & ac(HT80)		DC1C2109793003-0E						
	802.11 a & n(HT20) &	NVNT	Refer to the report.:						
4.2.3	n(HT40) & ac(HT20) &	NVLT	BCTC2109795863-6E	Pass					
	ac(HT40) & ac(HT80)	NVHT	BC1C2109793003-0E						
	802.11 a & n(HT20) &	Refer to the report.:							
4.2.3 <sup>PSD</sup>	n(HT40) & ac(HT20) &	NVNT	BCTC2109795863-6E	Pass					
	ac(HT40) & ac(HT80)		BC1C2109793803-0E						
	802.11 a & n(HT20) &		Refer to the report.:						
4.2.4.1	n(HT40) & ac(HT20) &	NVNT	BCTC2109795863-6E	Pass					
	ac(HT40) & ac(HT80)		DC102109793003-0L						
	802.11 a & n(HT20) &		Refer to the report.:						
4.2.4.2	n(HT40) & ac(HT20) &	NVNT	NVNT BCTC2109795863-6E	Pass					
	ac(HT40) & ac(HT80)		BC1C2109793003-0E						
	802.11 a & n(HT20) &								
4.2.5	n(HT40) & ac(HT20) &	NVNT	See Section 6.4.3	Pass					
	ac(HT40) & ac(HT80)								
4.2.6	N/A	N/A	Refer to the report.:	Pass					
4.2.0		IV/A	BCTC2109795863-6E	1 033					
	802.11 a & n(HT20) &		Refer to the report.:						
4.2.7	n(HT40) & ac(HT20) &	NVNT	BCTC2109795863-6E	Pass					
	ac(HT40) & ac(HT80)		DOTO2103733003 0L						
	802.11 a & n(HT20) &								
4.2.8	n(HT40) & ac(HT20) &	NVNT	See Section 6.4.2	Pass					
	ac(HT40) & ac(HT80)								
4.2.9	N/A	N/A	Refer to the report.:	Pass					
	14/1	14//1	BCTC2109795863-6E	1 000					

#### Note:

<sup>1. &</sup>quot;NVNT" means Normal Voltage Normal Temperature, "LT" means Low Temperature, "HT" means High Temperature, "LV" means Low Voltage, "HV" means High Voltag.





6.4.2 Unwanted emissions in the spurious domain

802.11a mode Lowest channel				
Francisco (MIII-)	Spurious	Emission	Limit (dDm)	Took Doould
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result
105.42	Vertical	-84.93	54.00	
201.81	V	-81.72	-54.00	
381.38	V	-81.23	20.00	
944.71	V	-72.14	-36.00	
10360.00	V	-41.27	-30.00	DAGG
50.13	Horizontal	-81.55	54.00	PASS
221.21	Н	-82.52	-54.00	
345.74	Н	-82.43	20.00	
807.46	Н	-72.25	-36.00	
10360.00	Н	-42.49	-30.00	

802.11n20 mode Lowest channel				
Fraguency (MU=)	Spurious I	Emission	Limit (dDm)	Test Result
Frequency (MHz)	Polarization	Le <mark>vel</mark> (dBm)	Limit (dBm)	rest Result
105.42	Vertical	-84.31	-54.00	
201.81	V	-81.26	-54.00	
381.38	V	-81.09	-36.00	
944.71	V	-72.24	-36.00	
10360.00	V	-41.50	-30.00	PASS
50.13	Horizontal	-81.33	-54.00	PASS
221.21	Н	-82.49	-54.00	
345.74	Н	-82.63	26.00	
807.46	Н	-72.22	-36.00	
10360.00	Н	-42.35	-30.00	

802.11n40 mode Lowest channel				
Frequency (MHz)	Spurious I	Emission	Limit (dBm)	T D K
Frequency (WHZ)	Polar <mark>izat</mark> ion	Level(dBm)	Lilliit (dBill)	Test Result
105.42	Vertical	-84.76	E4.00	
201.81	V	-81.49	-54.00	
381.38	V	-80.91	-36.00	
944.71	V	-72.57		
10380.00	V	-41.57	-30.00	PASS
50.13	Horizontal	-81.23	E4.00	PASS
221.21	Н	-82.06	-54.00	
345.74	Н	-82.46	26.00	
807.46	Н	-71.82	-36.00	
10380.00	Н	-42.75	-30.00	



802.11ac20 mode Lowest channel					
Erogueney (MU=)	Spurious	Emission	Limit (dDm)	Test Result	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	rest Result	
105.42	Vertical	-84.77	54.00		
201.81	V	-81.55	-54.00		
381.38	V	-80.75	20.00		
944.71	V	-71.45	-36.00		
10360.00	V	-41.10	-30.00	DACC	
50.13	Horizontal	-81.22	54.00	PASS	
221.21	Н	-83.35	-54.00		
345.74	Н	-83.42	20.00		
807.46	Н	-72.56	-36.00		
10360.00	Н	-41.98	-30.00		

802.11ac40 mode Lowest channel				
Erogueney (MU=)	Spurious	Emission	Limit (dDm)	Teet Decult
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result
105.42	Vertical	-84.35	54.00	
201.81	V	-81.07	-54.00	
381.38	V	-81.05	20.00	
944.71	V	-71.93	-36.00	
10380.00	V	-41.51	-30.00	DACC
50.13	Horizontal	-81.53	54.00	PASS
221.21	Н	-82.97	-54.00	
345.74	Н	-83.10	20.00	
807.46	Н	<b>-72</b> .70	-36.00	
10380.00	Н	-41.99	-30.00	

802.11ac80 mode middle channel				
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Test Result
Frequency (MHZ)	Polarization	Level(dBm)	Lilliit (dBill)	rest Result
105.42	Vertical	-85.05	-54.00	
201.81	V	-81.58	-54.00	
381.38	V	-81.14	-36.00	
944.71	V	-71.66		
10420.00	V	-40.65	-30.00	PASS
50.13	Horizontal	-80.94	-54.00	PASS
221.21	Н	-83.79	-54.00	
345.74	Н	-83.80	-36.00	
807.46	Н	-72.48		
10420.00	Н	-41.80	-30.00	





6.4.3 Receiver spurious emissions

802.11a mode Lowest channel					
Fraguency (MU=)	Spurious I	Emission	Limit (dDm)	Took Dooult	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
344.64	Vertical	-80.85	F7.00		
675.29	V	-75.51	-57.00		
10360.00	V	-61.97	-47.00	DAGG	
310.57	Horizontal	-83.73	F7.00	PASS	
656.14	Н	-76.84	-57.00		
10360.00	Н	-64.08	-47.00		

	802.11n	20 mode Lowest channe	el	
	Spurious			
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result
344.64	Vertical	-81.26	57.00	
675.29	V	-75.63	-57.00	
10360.00	V	-62.51	-47.00	D100
310.57	Horizontal	-83.09	57.00	PASS
656.14	Н	-76.74	-57.00	
10360.00	Н	-63.83	-47.00	

802.11n40 mode Lowest channel					
Eroguenov (MUz)	Spurious	Spurious Emission		Test Result	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	rest Result	
344.64	Vertical	-81.31	-57.00		
675.29	V	-75.79	-57.00		
10380.00	V	-62.14	-47.00	DACC	
310.57	Horizontal	-83.55	F7.00	PASS	
656.14	Н	-76.71	-57.00		
10380.00	Н	-63.80	-47.00		



802.11ac20 mode Lowest channel					
Fraguenay (MU=)	Spurious	Emission	Limit (dDm)	Test Result	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	rest Result	
344.64	Vertical	-80.44	57.00		
675.29	V	-76.13	-57.00		
10360.00	V	-62.65	-47.00	DACC	
310.57	Horizontal	-83.76	57.00	PASS	
656.14	Н	-76.66	-57.00		
10360.00	Н	-64.61	-47.00		

802.11ac40 mode Lowest ch <mark>ann</mark> el				
Erogueney (MU=)	Spurious I	Emission	Limit (dDm)	Toot Beauty
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result
344.64	Vertical	-80.86	57.00	
675.29	V	-75.64	-57.00	
10380.00	V	-62.78	-47.00	DAGG
310.57	Horizontal	-83.28	57.00	PASS
656.14	Н	-76.71	-57.00	
10380.00	Н	-64.29	-47.00	

802.1 <mark>1ac80 mode middle channel</mark>					
- ()	Spurious	Emission			
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
344.64	Vertical	-80.73	F7.00		
675.29	V	-76.07	-57.00		
10420.00	V	-62.44	-47.00	DAGG	
310.57	Horizontal	-83.58	57.00	PASS	
656.14	Н	-76.19	-57.00		
10420.00	Н	-65.11	-47.00		





# 7 Test Setup Photos







# 8 EUT Constructional Details

Refer to the report No.: JJYTSZ-R01-2200020.

