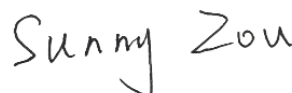


TEST REPORT

Applicant: Heilongjiang Huida Technology Co., Ltd
Address: Building 1. Science and Technology Innovation
Headquarters, Shenzhen(Harbin)industrial Park,
No.288 Zhigu Street, Songbei District, Harbin,
China
Equipment Type: Terminal
Model Name: HD501B
Brand Name: HUIDA TECH
FCC ID: 2BBNT- HD501B
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Nov. 27, 2024
Test Date: Dec. 05, 2024 - Dec. 10, 2024
Date of Issue: Feb. 14, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li Ganming**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Feb. 14, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	General Description for Equipment under Test (EUT)	5
2.4	Technical Information	6
2.5	Channel List	7
3	SUMMARY OF TEST RESULTS	9
3.1	Test Standards	9
3.2	Test Verdict	9
4	GENERAL TEST CONFIGURATIONS	10
4.1	Test Environments	10
4.2	Test Equipment List	10
4.3	Test Software List	10
4.4	Measurement Uncertainty	11
4.5	Description of Test Setup	11
5	TEST ITEMS	14
5.1	RF Output Power	14
5.2	Emission Bandwidth and 6 dB Bandwidth	16
5.3	Power Spectral density (PSD)	17
5.4	Conducted Emission	18
5.5	Radiated Spurious Emissions and Band Edge (Restricted-band)	19

ANNEX A	TEST RESULT	23
A.1	RF Output Power.....	23
A.2	Emission Bandwidth & 99% Bandwidth.....	24
A.3	6 dB Bandwidth	25
A.4	Power Spectral Density	26
A.5	Conducted Emissions.....	27
A.6	Radiated Spurious Emissions and Band Edge (Restricted-band).....	28
ANNEX B	TEST SETUP PHOTOS	50
ANNEX C	EUT EXTERNAL PHOTOS	50
ANNEX D	EUT INTERNAL PHOTOS	50

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Heilongjiang Huida Technology Co., Ltd
Address	Building 1. Science and Technology Innovation Headquarters, Shenzhen(Harbin)industrial Park, No.288 Zhigu Street, Songbei District, Harbin, China

2.2 Manufacturer Information

Manufacturer	Heilongjiang Huida Technology Co., Ltd
Address	Building 1. Science and Technology Innovation Headquarters, Shenzhen(Harbin)industrial Park, No.288 Zhigu Street, Songbei District, Harbin, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Terminal
Model Name Under Test	HD501B
Series Model Name	HD408MBDS-2.5GD, HD408BD-2.5GD, HD501, HD501E, HD408
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	408_SC200R_P1_2
Software Version	hd501_international_v3
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/14/17/25/26/66/71 LTE TDD Band 41 WIFI 802.11a, 802.11b, 802.11g and 802.11n GPS, GLONASS, Galileo, IRNSS, BDS, QZSS, Radio RX
-----------------------------------	--

The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Modulation technology	OFDM
Modulation Type	64QAM, 16QAM, BPSK, QPSK
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz
Maximum Output Power	U-NII-1: 31.55 mW U-NII-3: 31.99 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PCB Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 3.18 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.74 dBi
About the Product	The equipment is Terminal, intended for used with information technology equipment.

2.5 Channel List

20 MHz		40 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	151	5755
48	5240	159	5795
149	5745		
153	5765		
157	5785		
161	5805		
165	5825		

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n(HT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
6 dB bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Band Edge (Restricted-band)	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	N/A ^{Note 2}
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.6	Pass

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note ²: The EUT is a vehicle equipment, so the Conducted Emission test is not applicable.

Note ³: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	44% to 61%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.1°C to +25.9°C
Working Voltage of the EUT	NV (Normal Voltage)	12 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2024.07.04	2025.07.03
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2024.05.22	2025.05.21
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2027.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



(Diagram 1)

4.5.2 For AC Power Supply Port Test



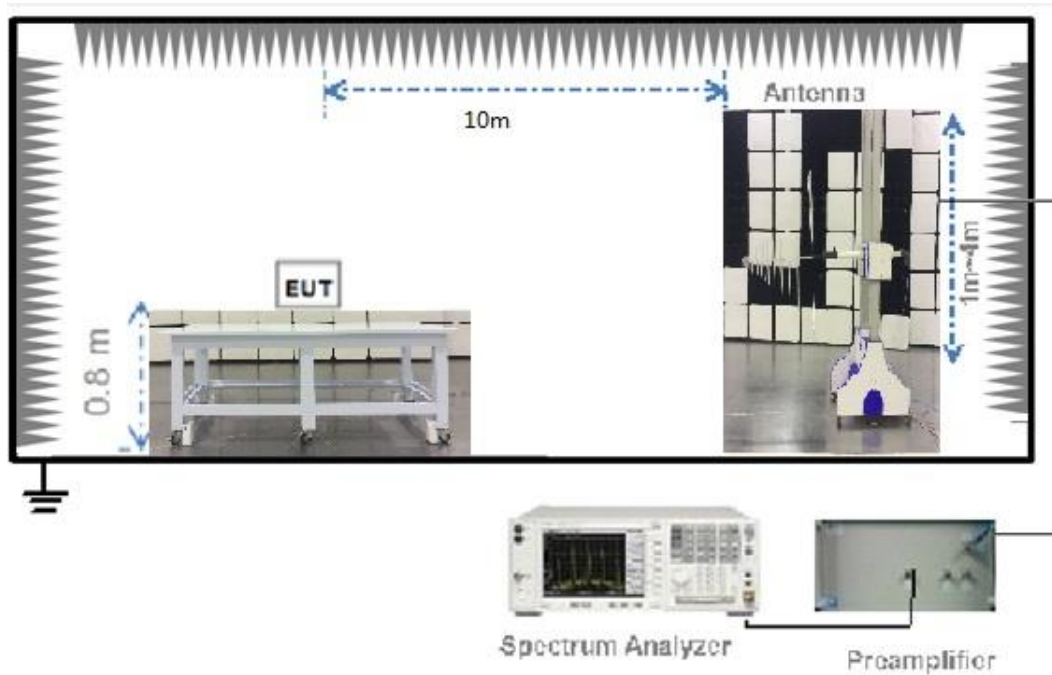
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



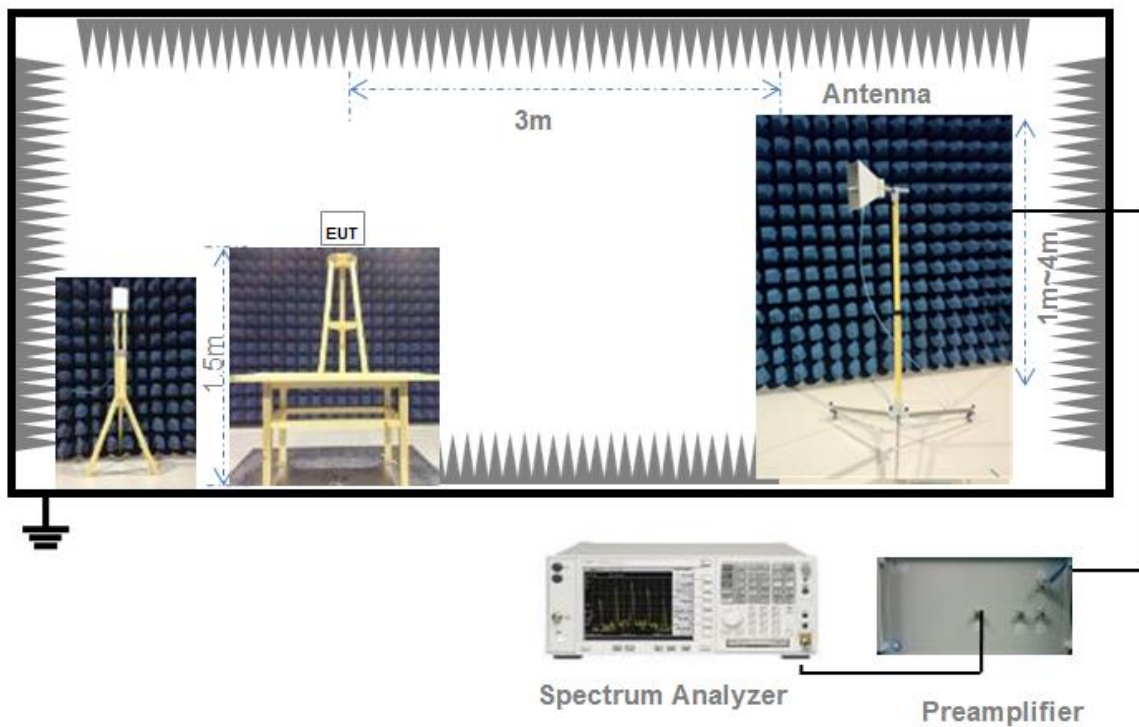
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where “B” is the 26 dB emissions bandwidth in MHz.	

5.1.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Maximum conducted (average) output power

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The E.I.R.P 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.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2.2 Test Setup

The test setup photo please refer to 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq 3 \times$ RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW $\geq 3 \times$ RBW, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.
2. Detector = Peak. Trace mode = Max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	11 dBm/MHz
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

5.3.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. 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.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the U-NII-150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.4.2 Test Setup

The section 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

5.5.1 Limit

FCC §15.209 & 15.407(b)

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note ¹: The Limit for radiated test was performed according to FCC Part 15C

Note ²: The tighter limit applies at the band edge.

5.5.2 Test Setup

The section 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

e) Compare the resultant electric field strength level to the applicable limit.

f) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

a) RBW = as specified in Table 1.

b) VBW $\geq 3 \times$ RBW.

c) Detector = Peak.

d) Sweep time = auto.

e) Trace mode = max hold.

f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that

is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

Note: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.36	1.38	98.70%	0.06
11n(HT20)	1.27	1.29	98.45%	0.07
11n(HT40)	0.64	0.66	96.92%	0.14

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	14.75	29.85	250	Pass
11a	CH44	14.56	28.58	250	Pass
11a	CH48	14.58	28.71	250	Pass
11n(HT20)	CH36	14.85	30.55	250	Pass
11n(HT20)	CH44	14.53	28.38	250	Pass
11n(HT20)	CH48	14.99	31.55	250	Pass
11n(HT40)	CH38	14.82	30.34	250	Pass
11n(HT40)	CH46	14.62	28.97	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.66	29.24	1000	Pass
11a	CH157	14.62	28.97	1000	Pass
11a	CH165	14.61	28.91	1000	Pass
11n(HT20)	CH149	14.68	29.38	1000	Pass
11n(HT20)	CH157	14.69	29.44	1000	Pass
11n(HT20)	CH165	14.71	29.58	1000	Pass
11n(HT40)	CH151	15.05	31.99	1000	Pass
11n(HT40)	CH159	14.63	29.04	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ24B1326-602 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	22.42	16.85
11a	CH44	22.10	16.83
11a	CH48	22.20	16.84
11n(HT20)	CH36	22.47	17.98
11n(HT20)	CH44	22.44	17.89
11n(HT20)	CH48	22.53	17.89
11n(HT40)	CH38	44.03	36.17
11n(HT40)	CH46	44.32	36.15

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	22.50	16.89
11a	CH157	22.79	16.88
11a	CH165	22.50	16.85
11n(HT20)	CH149	22.82	17.92
11n(HT20)	CH157	22.49	17.92
11n(HT20)	CH165	22.55	17.89
11n(HT40)	CH151	46.83	36.20
11n(HT40)	CH159	43.75	36.17

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ24B1326-602 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.60	500.00	Pass
11a	CH157	16.60	500.00	Pass
11a	CH165	16.60	500.00	Pass
11n(HT20)	CH149	17.80	500.00	Pass
11n(HT20)	CH157	17.80	500.00	Pass
11n(HT20)	CH165	17.80	500.00	Pass
11n(HT40)	CH151	35.40	500.00	Pass
11n(HT40)	CH159	35.40	500.00	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document "Annex No.: BL-SZ24B1326-602 Data Part 3.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	2.99	11.00	Pass
11a	CH44	2.89	11.00	Pass
11a	CH48	2.93	11.00	Pass
11n(HT20)	CH36	2.86	11.00	Pass
11n(HT20)	CH44	2.57	11.00	Pass
11n(HT20)	CH48	3.22	11.00	Pass
11n(HT40)	CH38	0.02	11.00	Pass
11n(HT40)	CH46	-0.09	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	0.26	30.00	Pass
11a	CH157	0.21	30.00	Pass
11a	CH165	0.26	30.00	Pass
11n(HT20)	CH149	0.09	30.00	Pass
11n(HT20)	CH157	0.00	30.00	Pass
11n(HT20)	CH165	0.03	30.00	Pass
11n(HT40)	CH151	-2.35	30.00	Pass
11n(HT40)	CH159	-2.80	30.00	Pass

A.5 Conducted Emissions

Note: Not applicable.

A.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

Note¹: The symbol of "--" in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

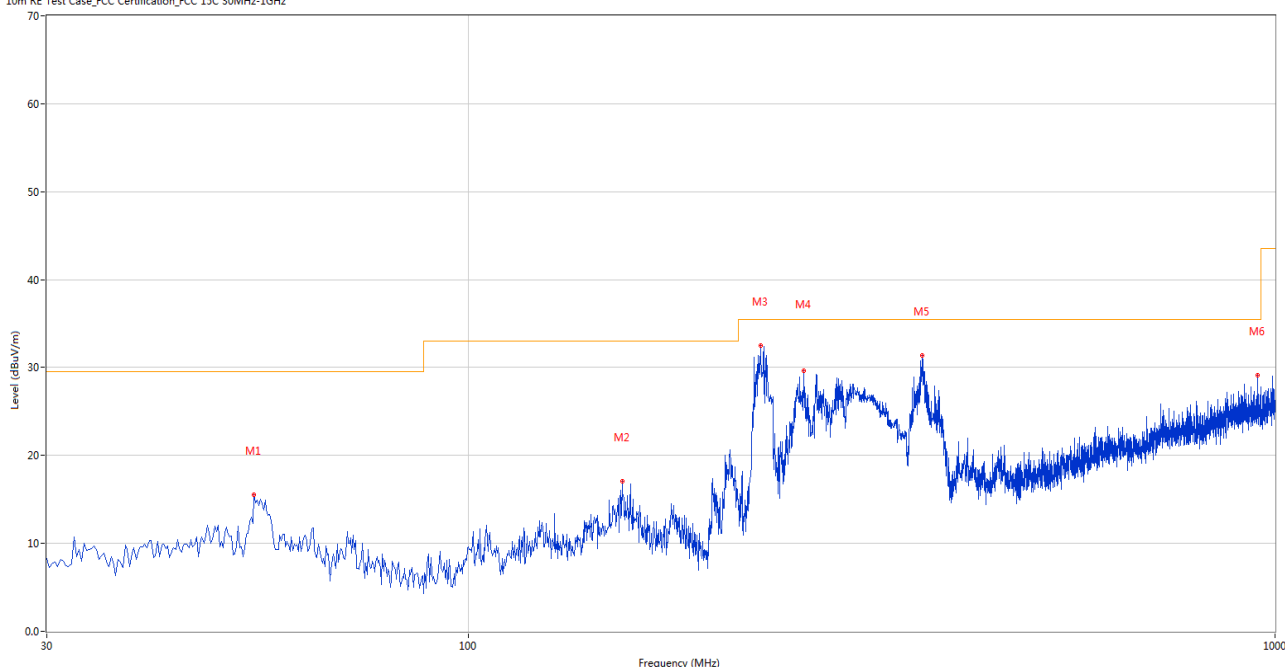
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

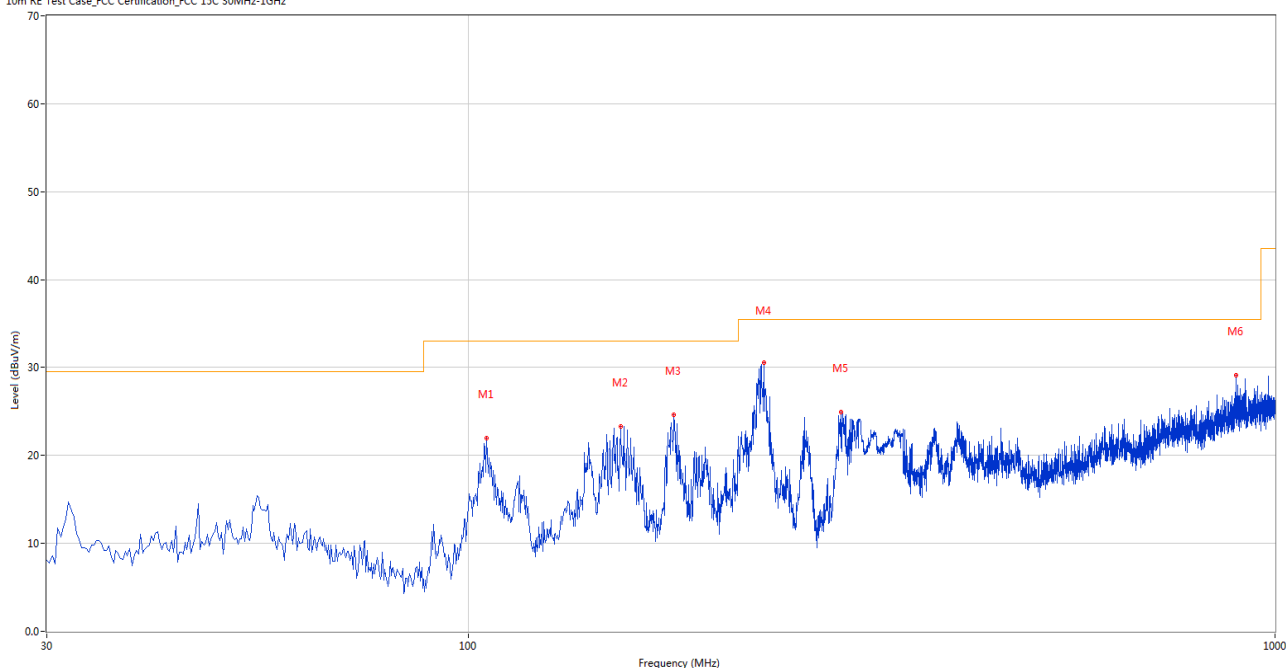
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.244	15.52	-26.09	29.5	13.98	Peak	13.00	200	Horizontal	Pass
2	155.099	17.05	-25.42	33.0	15.95	Peak	0.00	200	Horizontal	Pass
3	230.255	32.41	-28.47	35.5	3.09	Peak	13.00	200	Horizontal	Pass
4	260.560	29.68	-26.50	35.5	5.82	Peak	2.00	200	Horizontal	Pass
5	365.294	31.38	-23.24	35.5	4.12	Peak	7.00	200	Horizontal	Pass
6	951.027	29.11	-10.42	35.5	6.39	Peak	4.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	105.399	21.98	-29.62	33.0	11.02	Peak	346.00	100	Vertical	Pass
2	154.371	23.30	-25.46	33.0	9.70	Peak	350.00	100	Vertical	Pass
3	179.828	24.67	-26.98	33.0	8.33	Peak	360.00	100	Vertical	Pass
4	232.437	30.53	-28.04	35.5	4.97	Peak	360.00	100	Vertical	Pass
5	289.410	24.97	-25.14	35.5	10.53	Peak	350.00	100	Vertical	Pass
6	894.296	29.15	-10.58	35.5	6.35	Peak	350.00	100	Vertical	Pass

Note: The spurious above 18G is noise only, do not show on the report.

11a, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1510.710	42.20	74.0	31.80	Peak	11.00	300	Horizontal	Pass
1**	1510.710	27.91	54.0	26.09	AV	11.00	300	Horizontal	Pass
2	2348.955	46.26	74.0	27.74	Peak	261.00	400	Horizontal	Pass
2**	2348.955	35.19	54.0	18.81	AV	261.00	400	Horizontal	Pass
3	4203.228	49.64	74.0	24.36	Peak	190.00	200	Horizontal	Pass
3**	4203.228	37.07	54.0	16.93	AV	190.00	200	Horizontal	Pass
4	7438.028	51.44	74.0	22.56	Peak	291.00	200	Horizontal	Pass
4**	7438.028	41.53	54.0	12.47	AV	291.00	200	Horizontal	Pass
5	12521.014	52.79	74.0	21.21	Peak	323.00	100	Horizontal	Pass
5**	12521.014	45.33	54.0	8.67	AV	323.00	100	Horizontal	Pass
6	16149.569	52.98	74.0	21.02	Peak	93.00	400	Horizontal	Pass
6**	16149.569	45.51	54.0	8.49	AV	93.00	400	Horizontal	Pass

11a, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1571.833	36.89	74.0	37.11	Peak	358.00	200	Vertical	Pass
1**	1571.833	29.08	54.0	24.92	AV	358.00	200	Vertical	Pass
2	2348.419	45.16	74.0	28.84	Peak	237.00	400	Vertical	Pass
2**	2348.419	33.49	54.0	20.51	AV	237.00	400	Vertical	Pass
3	3913.720	45.66	74.0	28.34	Peak	75.00	200	Vertical	Pass
3**	3913.720	37.96	54.0	16.04	AV	75.00	200	Vertical	Pass
4	7678.256	50.59	74.0	23.41	Peak	231.00	400	Vertical	Pass
4**	7678.256	45.75	54.0	8.25	AV	231.00	400	Vertical	Pass
5	12528.294	58.64	74.0	15.36	Peak	72.00	100	Vertical	Pass
5**	12528.294	42.93	54.0	11.07	AV	72.00	100	Vertical	Pass
6	15380.390	51.55	74.0	22.45	Peak	89.00	300	Vertical	Pass
6**	15380.390	44.70	54.0	9.30	AV	89.00	300	Vertical	Pass

11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1513.739	38.42	74.0	35.58	Peak	181.00	300	Horizontal	Pass
1**	1513.739	28.74	54.0	25.26	AV	181.00	300	Horizontal	Pass
2	2344.930	42.61	74.0	31.39	Peak	345.00	400	Horizontal	Pass
2**	2344.930	36.46	54.0	17.54	AV	345.00	400	Horizontal	Pass
3	4202.132	49.71	74.0	24.29	Peak	11.00	200	Horizontal	Pass
3**	4202.132	39.16	54.0	14.84	AV	11.00	200	Horizontal	Pass
4	7438.027	56.65	74.0	17.35	Peak	195.00	100	Horizontal	Pass
4**	7438.027	44.27	54.0	9.73	AV	195.00	100	Horizontal	Pass
5	12516.479	53.13	74.0	20.87	Peak	300.00	200	Horizontal	Pass
5**	12516.479	46.33	54.0	7.67	AV	300.00	200	Horizontal	Pass
6	16151.287	55.41	74.0	18.59	Peak	298.00	200	Horizontal	Pass
6**	16151.287	46.43	54.0	7.57	AV	298.00	200	Horizontal	Pass

11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1574.092	39.16	74.0	34.84	Peak	209.00	100	Vertical	Pass
1**	1574.092	29.03	54.0	24.97	AV	209.00	100	Vertical	Pass
2	2349.411	47.45	74.0	26.55	Peak	140.00	300	Vertical	Pass
2**	2349.411	34.91	54.0	19.09	AV	140.00	300	Vertical	Pass
3	3919.020	44.10	74.0	29.90	Peak	322.00	200	Vertical	Pass
3**	3919.020	34.26	54.0	19.74	AV	322.00	200	Vertical	Pass
4	7676.901	53.94	74.0	20.06	Peak	269.00	100	Vertical	Pass
4**	7676.901	45.89	54.0	8.11	AV	269.00	100	Vertical	Pass
5	12527.095	58.06	74.0	15.94	Peak	353.00	300	Vertical	Pass
5**	12527.095	43.75	54.0	10.25	AV	353.00	300	Vertical	Pass
6	15380.391	52.11	74.0	21.89	Peak	317.00	300	Vertical	Pass
6**	15380.391	45.62	54.0	8.38	AV	317.00	300	Vertical	Pass

11a, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.890	37.57	74.0	36.43	Peak	19.00	400	Horizontal	Pass
1**	1508.890	29.08	54.0	24.92	AV	19.00	400	Horizontal	Pass
2	2348.722	43.77	74.0	30.23	Peak	166.00	300	Horizontal	Pass
2**	2348.722	39.05	54.0	14.95	AV	166.00	300	Horizontal	Pass
3	4203.063	46.23	74.0	27.77	Peak	166.00	200	Horizontal	Pass
3**	4203.063	34.99	54.0	19.01	AV	166.00	200	Horizontal	Pass
4	7436.164	55.26	74.0	18.74	Peak	36.00	200	Horizontal	Pass
4**	7436.164	40.25	54.0	13.75	AV	36.00	200	Horizontal	Pass
5	12517.589	54.52	74.0	19.48	Peak	10.00	400	Horizontal	Pass
5**	12517.589	45.85	54.0	8.15	AV	10.00	400	Horizontal	Pass
6	16143.538	56.91	74.0	17.09	Peak	300.00	300	Horizontal	Pass
6**	16143.538	41.18	54.0	12.82	AV	300.00	300	Horizontal	Pass

11a, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1568.314	35.22	74.0	38.78	Peak	165.00	200	Vertical	Pass
1**	1568.314	26.31	54.0	27.69	AV	165.00	200	Vertical	Pass
2	2347.900	47.64	74.0	26.36	Peak	121.00	100	Vertical	Pass
2**	2347.900	32.91	54.0	21.09	AV	121.00	100	Vertical	Pass
3	3919.789	41.79	74.0	32.21	Peak	147.00	200	Vertical	Pass
3**	3919.789	37.51	54.0	16.49	AV	147.00	200	Vertical	Pass
4	7676.738	50.77	74.0	23.23	Peak	253.00	300	Vertical	Pass
4**	7676.738	46.69	54.0	7.31	AV	253.00	300	Vertical	Pass
5	12533.375	57.22	74.0	16.78	Peak	115.00	400	Vertical	Pass
5**	12533.375	44.12	54.0	9.88	AV	115.00	400	Vertical	Pass
6	15381.278	52.28	74.0	21.72	Peak	118.00	400	Vertical	Pass
6**	15381.278	42.52	54.0	11.48	AV	118.00	400	Vertical	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1514.418	42.44	74.0	31.56	Peak	274.00	100	Horizontal	Pass
1**	1514.418	31.89	54.0	22.11	AV	274.00	100	Horizontal	Pass
2	2345.626	46.49	74.0	27.51	Peak	213.00	200	Horizontal	Pass
2**	2345.626	40.01	54.0	13.99	AV	213.00	200	Horizontal	Pass
3	4204.967	46.15	74.0	27.85	Peak	81.00	200	Horizontal	Pass
3**	4204.967	38.90	54.0	15.10	AV	81.00	200	Horizontal	Pass
4	7436.209	57.14	74.0	16.86	Peak	248.00	400	Horizontal	Pass
4**	7436.209	42.34	54.0	11.66	AV	248.00	400	Horizontal	Pass
5	12517.417	54.35	74.0	19.65	Peak	141.00	300	Horizontal	Pass
5**	12517.417	46.74	54.0	7.26	AV	141.00	300	Horizontal	Pass
6	16145.226	56.07	74.0	17.93	Peak	0.00	400	Horizontal	Pass
6**	16145.226	46.40	54.0	7.60	AV	0.00	400	Horizontal	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1568.378	37.01	74.0	36.99	Peak	351.00	400	Vertical	Pass
1**	1568.378	29.08	54.0	24.92	AV	351.00	400	Vertical	Pass
2	2344.804	42.92	74.0	31.08	Peak	222.00	200	Vertical	Pass
2**	2344.804	34.90	54.0	19.10	AV	222.00	200	Vertical	Pass
3	3914.752	44.56	74.0	29.44	Peak	187.00	200	Vertical	Pass
3**	3914.752	38.87	54.0	15.13	AV	187.00	200	Vertical	Pass
4	7682.419	51.07	74.0	22.93	Peak	103.00	100	Vertical	Pass
4**	7682.419	41.36	54.0	12.64	AV	103.00	100	Vertical	Pass
5	12526.845	56.55	74.0	17.45	Peak	73.00	100	Vertical	Pass
5**	12526.845	44.14	54.0	9.86	AV	73.00	100	Vertical	Pass
6	15384.001	51.33	74.0	22.67	Peak	283.00	100	Vertical	Pass
6**	15384.001	45.48	54.0	8.52	AV	283.00	100	Vertical	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1507.948	39.31	74.0	34.69	Peak	303.00	400	Horizontal	Pass
1**	1507.948	31.87	54.0	22.13	AV	303.00	400	Horizontal	Pass
2	2347.594	46.64	74.0	27.36	Peak	126.00	400	Horizontal	Pass
2**	2347.594	36.11	54.0	17.89	AV	126.00	400	Horizontal	Pass
3	4202.616	48.79	74.0	25.21	Peak	140.00	200	Horizontal	Pass
3**	4202.616	37.09	54.0	16.91	AV	140.00	200	Horizontal	Pass
4	7433.159	54.99	74.0	19.01	Peak	15.00	400	Horizontal	Pass
4**	7433.159	45.02	54.0	8.98	AV	15.00	400	Horizontal	Pass
5	12519.317	56.58	74.0	17.42	Peak	91.00	200	Horizontal	Pass
5**	12519.317	48.25	54.0	5.75	AV	91.00	200	Horizontal	Pass
6	16144.555	52.66	74.0	21.34	Peak	119.00	200	Horizontal	Pass
6**	16144.555	43.52	54.0	10.48	AV	119.00	200	Horizontal	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1570.100	34.44	74.0	39.56	Peak	260.00	100	Vertical	Pass
1**	1570.100	24.79	54.0	29.21	AV	260.00	100	Vertical	Pass
2	2346.102	44.82	74.0	29.18	Peak	87.00	300	Vertical	Pass
2**	2346.102	34.33	54.0	19.67	AV	87.00	300	Vertical	Pass
3	3914.284	46.58	74.0	27.42	Peak	55.00	200	Vertical	Pass
3**	3914.284	36.40	54.0	17.60	AV	55.00	200	Vertical	Pass
4	7682.046	52.27	74.0	21.73	Peak	264.00	100	Vertical	Pass
4**	7682.046	44.57	54.0	9.43	AV	264.00	100	Vertical	Pass
5	12527.344	58.14	74.0	15.86	Peak	258.00	100	Vertical	Pass
5**	12527.344	43.55	54.0	10.45	AV	258.00	100	Vertical	Pass
6	15385.770	51.47	74.0	22.53	Peak	23.00	100	Vertical	Pass
6**	15385.770	44.48	54.0	9.52	AV	23.00	100	Vertical	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1513.438	40.62	74.0	33.38	Peak	103.00	300	Horizontal	Pass
1**	1513.438	26.92	54.0	27.08	AV	103.00	300	Horizontal	Pass
2	2350.604	43.55	74.0	30.45	Peak	133.00	200	Horizontal	Pass
2**	2350.604	34.66	54.0	19.34	AV	133.00	200	Horizontal	Pass
3	4205.417	46.28	74.0	27.72	Peak	319.00	200	Horizontal	Pass
3**	4205.417	35.88	54.0	18.12	AV	319.00	200	Horizontal	Pass
4	7435.077	54.00	74.0	20.00	Peak	341.00	300	Horizontal	Pass
4**	7435.077	40.33	54.0	13.67	AV	341.00	300	Horizontal	Pass
5	12520.827	57.73	74.0	16.27	Peak	0.00	200	Horizontal	Pass
5**	12520.827	45.31	54.0	8.69	AV	0.00	200	Horizontal	Pass
6	16149.224	56.15	74.0	17.85	Peak	21.00	100	Horizontal	Pass
6**	16149.224	43.17	54.0	10.83	AV	21.00	100	Horizontal	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.775	38.46	74.0	35.54	Peak	276.00	200	Vertical	Pass
1**	1572.775	24.28	54.0	29.72	AV	276.00	200	Vertical	Pass
2	2345.332	42.45	74.0	31.55	Peak	287.00	300	Vertical	Pass
2**	2345.332	31.84	54.0	22.16	AV	287.00	300	Vertical	Pass
3	3919.655	46.87	74.0	27.13	Peak	317.00	200	Vertical	Pass
3**	3919.655	34.27	54.0	19.73	AV	317.00	200	Vertical	Pass
4	7678.428	52.50	74.0	21.50	Peak	314.00	100	Vertical	Pass
4**	7678.428	42.33	54.0	11.67	AV	314.00	100	Vertical	Pass
5	12532.161	55.22	74.0	18.78	Peak	83.00	300	Vertical	Pass
5**	12532.161	40.11	54.0	13.89	AV	83.00	300	Vertical	Pass
6	15380.045	55.92	74.0	18.08	Peak	295.00	300	Vertical	Pass
6**	15380.045	46.59	54.0	7.41	AV	295.00	300	Vertical	Pass

11n40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.352	38.76	74.0	35.24	Peak	262.00	300	Horizontal	Pass
1**	1512.352	28.09	54.0	25.91	AV	262.00	300	Horizontal	Pass
2	2349.886	44.49	74.0	29.51	Peak	325.00	400	Horizontal	Pass
2**	2349.886	38.30	54.0	15.70	AV	325.00	400	Horizontal	Pass
3	4202.988	46.16	74.0	27.84	Peak	34.00	200	Horizontal	Pass
3**	4202.988	34.83	54.0	19.17	AV	34.00	200	Horizontal	Pass
4	7436.660	55.30	74.0	18.70	Peak	244.00	400	Horizontal	Pass
4**	7436.660	41.27	54.0	12.73	AV	244.00	400	Horizontal	Pass
5	12516.571	57.31	74.0	16.69	Peak	279.00	200	Horizontal	Pass
5**	12516.571	46.33	54.0	7.67	AV	279.00	200	Horizontal	Pass
6	16145.412	52.53	74.0	21.47	Peak	285.00	100	Horizontal	Pass
6**	16145.412	41.77	54.0	12.23	AV	285.00	100	Horizontal	Pass

11n40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1571.418	37.17	74.0	36.83	Peak	222.00	200	Vertical	Pass
1**	1571.418	25.24	54.0	28.76	AV	222.00	200	Vertical	Pass
2	2343.897	43.23	74.0	30.77	Peak	72.00	100	Vertical	Pass
2**	2343.897	33.19	54.0	20.81	AV	72.00	100	Vertical	Pass
3	3919.276	43.91	74.0	30.09	Peak	224.00	200	Vertical	Pass
3**	3919.276	37.63	54.0	16.37	AV	224.00	200	Vertical	Pass
4	7682.504	53.14	74.0	20.86	Peak	29.00	300	Vertical	Pass
4**	7682.504	43.08	54.0	10.92	AV	29.00	300	Vertical	Pass
5	12530.677	56.61	74.0	17.39	Peak	89.00	400	Vertical	Pass
5**	12530.677	44.23	54.0	9.77	AV	89.00	400	Vertical	Pass
6	15379.419	55.54	74.0	18.46	Peak	350.00	300	Vertical	Pass
6**	15379.419	43.57	54.0	10.43	AV	350.00	300	Vertical	Pass

11n40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1514.151	38.21	74.0	35.79	Peak	2.00	200	Horizontal	Pass
1**	1514.151	28.32	54.0	25.68	AV	2.00	200	Horizontal	Pass
2	2351.084	42.71	74.0	31.29	Peak	214.00	100	Horizontal	Pass
2**	2351.084	36.37	54.0	17.63	AV	214.00	100	Horizontal	Pass
3	4202.985	49.08	74.0	24.92	Peak	25.00	200	Horizontal	Pass
3**	4202.985	36.47	54.0	17.53	AV	25.00	200	Horizontal	Pass
4	7434.030	56.89	74.0	17.11	Peak	224.00	200	Horizontal	Pass
4**	7434.030	40.65	54.0	13.35	AV	224.00	200	Horizontal	Pass
5	12517.344	53.60	74.0	20.40	Peak	6.00	100	Horizontal	Pass
5**	12517.344	47.31	54.0	6.69	AV	6.00	100	Horizontal	Pass
6	16144.822	52.41	74.0	21.59	Peak	88.00	100	Horizontal	Pass
6**	16144.822	42.18	54.0	11.82	AV	88.00	100	Horizontal	Pass

11n40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1571.218	35.00	74.0	39.00	Peak	323.00	300	Vertical	Pass
1**	1571.218	27.25	54.0	26.75	AV	323.00	300	Vertical	Pass
2	2350.399	46.51	74.0	27.49	Peak	152.00	100	Vertical	Pass
2**	2350.399	31.56	54.0	22.44	AV	152.00	100	Vertical	Pass
3	3919.175	43.56	74.0	30.44	Peak	163.00	200	Vertical	Pass
3**	3919.175	39.11	54.0	14.89	AV	163.00	200	Vertical	Pass
4	7678.600	51.19	74.0	22.81	Peak	52.00	200	Vertical	Pass
4**	7678.600	42.45	54.0	11.55	AV	52.00	200	Vertical	Pass
5	12528.959	54.95	74.0	19.05	Peak	149.00	400	Vertical	Pass
5**	12528.959	42.01	54.0	11.99	AV	149.00	400	Vertical	Pass
6	15380.213	53.30	74.0	20.70	Peak	242.00	400	Vertical	Pass
6**	15380.213	43.16	54.0	10.84	AV	242.00	400	Vertical	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.571	40.91	74.0	33.09	Peak	303.00	200	Horizontal	Pass
1**	1522.571	28.98	54.0	25.02	AV	303.00	200	Horizontal	Pass
2	4022.928	49.14	74.0	24.86	Peak	98.00	200	Horizontal	Pass
2**	4022.928	37.54	54.0	16.46	AV	98.00	200	Horizontal	Pass
3	7598.164	55.92	74.0	18.08	Peak	90.00	200	Horizontal	Pass
3**	7598.164	44.89	54.0	9.11	AV	90.00	200	Horizontal	Pass
4	12459.236	55.36	74.0	18.64	Peak	256.00	400	Horizontal	Pass
4**	12459.236	44.49	54.0	9.51	AV	256.00	400	Horizontal	Pass
5	16099.061	52.24	74.0	21.76	Peak	170.00	200	Horizontal	Pass
5**	16099.061	46.10	54.0	7.90	AV	170.00	200	Horizontal	Pass
6	17416.624	56.09	74.0	17.91	Peak	82.00	100	Horizontal	Pass
6**	17416.624	49.11	54.0	4.89	AV	82.00	100	Horizontal	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.554	43.84	74.0	30.16	Peak	122.00	100	Vertical	Pass
1**	1336.554	36.01	54.0	17.99	AV	122.00	100	Vertical	Pass
2	1439.048	40.34	74.0	33.66	Peak	99.00	200	Vertical	Pass
2**	1439.048	38.69	54.0	15.31	AV	99.00	200	Vertical	Pass
3	4308.042	46.90	74.0	27.10	Peak	148.00	200	Vertical	Pass
3**	4308.042	39.92	54.0	14.08	AV	148.00	200	Vertical	Pass
4	7591.545	53.23	74.0	20.77	Peak	51.00	100	Vertical	Pass
4**	7591.545	42.35	54.0	11.65	AV	51.00	100	Vertical	Pass
5	12530.945	50.71	74.0	23.29	Peak	260.00	100	Vertical	Pass
5**	12530.945	44.68	54.0	9.32	AV	260.00	100	Vertical	Pass
6	15903.978	54.24	74.0	19.76	Peak	181.00	200	Vertical	Pass
6**	15903.978	47.76	54.0	6.24	AV	181.00	200	Vertical	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.007	35.50	74.0	38.50	Peak	177.00	300	Horizontal	Pass
1**	1519.007	26.90	54.0	27.10	AV	177.00	300	Horizontal	Pass
2	4019.952	48.74	74.0	25.26	Peak	178.00	200	Horizontal	Pass
2**	4019.952	34.87	54.0	19.13	AV	178.00	200	Horizontal	Pass
3	7602.223	53.08	74.0	20.92	Peak	280.00	200	Horizontal	Pass
3**	7602.223	43.37	54.0	10.63	AV	280.00	200	Horizontal	Pass
4	12452.397	55.96	74.0	18.04	Peak	312.00	400	Horizontal	Pass
4**	12452.397	45.70	54.0	8.30	AV	312.00	400	Horizontal	Pass
5	16096.692	54.34	74.0	19.66	Peak	28.00	400	Horizontal	Pass
5**	16096.692	47.52	54.0	6.48	AV	28.00	400	Horizontal	Pass
6	17417.619	57.24	74.0	16.76	Peak	97.00	200	Horizontal	Pass
6**	17417.619	47.12	54.0	6.88	AV	97.00	200	Horizontal	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.901	46.17	74.0	27.83	Peak	22.00	400	Vertical	Pass
1**	1333.901	36.37	54.0	17.63	AV	22.00	400	Vertical	Pass
2	1442.812	39.78	74.0	34.22	Peak	175.00	300	Vertical	Pass
2**	1442.812	39.67	54.0	14.33	AV	175.00	300	Vertical	Pass
3	4307.280	45.85	74.0	28.15	Peak	280.00	200	Vertical	Pass
3**	4307.280	37.39	54.0	16.61	AV	280.00	200	Vertical	Pass
4	7593.460	55.29	74.0	18.71	Peak	203.00	400	Vertical	Pass
4**	7593.460	40.87	54.0	13.13	AV	203.00	400	Vertical	Pass
5	12537.258	55.77	74.0	18.23	Peak	170.00	300	Vertical	Pass
5**	12537.258	44.49	54.0	9.51	AV	170.00	300	Vertical	Pass
6	15909.557	54.88	74.0	19.12	Peak	139.00	100	Vertical	Pass
6**	15909.557	45.57	54.0	8.43	AV	139.00	100	Vertical	Pass

11a, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1520.651	37.03	74.0	36.97	Peak	307.00	200	Horizontal	Pass
1**	1520.651	27.14	54.0	26.86	AV	307.00	200	Horizontal	Pass
2	4019.010	45.82	74.0	28.18	Peak	297.00	400	Horizontal	Pass
2**	4019.010	36.33	54.0	17.67	AV	297.00	400	Horizontal	Pass
3	7599.533	50.90	74.0	23.10	Peak	223.00	200	Horizontal	Pass
3**	7599.533	44.46	54.0	9.54	AV	223.00	200	Horizontal	Pass
4	12455.085	52.66	74.0	21.34	Peak	221.00	200	Horizontal	Pass
4**	12455.085	45.38	54.0	8.62	AV	221.00	200	Horizontal	Pass
5	16098.360	51.95	74.0	22.05	Peak	37.00	400	Horizontal	Pass
5**	16098.360	45.30	54.0	8.70	AV	37.00	400	Horizontal	Pass
6	17421.623	56.73	74.0	17.27	Peak	113.00	100	Horizontal	Pass
6**	17421.623	46.53	54.0	7.47	AV	113.00	100	Horizontal	Pass

11a, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.348	46.94	74.0	27.06	Peak	329.00	400	Vertical	Pass
1**	1330.348	32.92	54.0	21.08	AV	329.00	400	Vertical	Pass
2	1440.508	41.96	74.0	32.04	Peak	139.00	100	Vertical	Pass
2**	1440.508	34.89	54.0	19.11	AV	139.00	100	Vertical	Pass
3	4314.057	47.79	74.0	26.21	Peak	178.00	200	Vertical	Pass
3**	4314.057	36.80	54.0	17.20	AV	178.00	200	Vertical	Pass
4	7591.107	55.02	74.0	18.98	Peak	190.00	400	Vertical	Pass
4**	7591.107	45.17	54.0	8.83	AV	190.00	400	Vertical	Pass
5	12537.374	53.69	74.0	20.31	Peak	360.00	400	Vertical	Pass
5**	12537.374	41.36	54.0	12.64	AV	360.00	400	Vertical	Pass
6	15910.323	51.57	74.0	22.43	Peak	22.00	200	Vertical	Pass
6**	15910.323	44.60	54.0	9.40	AV	22.00	200	Vertical	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1517.766	35.63	74.0	38.37	Peak	86.00	100	Horizontal	Pass
1**	1517.766	29.32	54.0	24.68	AV	86.00	100	Horizontal	Pass
2	4019.225	49.69	74.0	24.31	Peak	259.00	200	Horizontal	Pass
2**	4019.225	35.13	54.0	18.87	AV	259.00	200	Horizontal	Pass
3	7599.565	53.14	74.0	20.86	Peak	317.00	200	Horizontal	Pass
3**	7599.565	42.30	54.0	11.70	AV	317.00	200	Horizontal	Pass
4	12458.116	56.37	74.0	17.63	Peak	235.00	200	Horizontal	Pass
4**	12458.116	47.02	54.0	6.98	AV	235.00	200	Horizontal	Pass
5	16097.321	55.35	74.0	18.65	Peak	255.00	400	Horizontal	Pass
5**	16097.321	46.75	54.0	7.25	AV	255.00	400	Horizontal	Pass
6	17418.882	56.46	74.0	17.54	Peak	125.00	200	Horizontal	Pass
6**	17418.882	46.34	54.0	7.66	AV	125.00	200	Horizontal	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.518	41.85	74.0	32.15	Peak	343.00	300	Vertical	Pass
1**	1331.518	30.98	54.0	23.02	AV	343.00	300	Vertical	Pass
2	1441.601	42.46	74.0	31.54	Peak	181.00	300	Vertical	Pass
2**	1441.601	34.57	54.0	19.43	AV	181.00	300	Vertical	Pass
3	4307.590	45.99	74.0	28.01	Peak	98.00	200	Vertical	Pass
3**	4307.590	36.21	54.0	17.79	AV	98.00	200	Vertical	Pass
4	7594.905	51.77	74.0	22.23	Peak	77.00	400	Vertical	Pass
4**	7594.905	42.74	54.0	11.26	AV	77.00	400	Vertical	Pass
5	12531.485	56.46	74.0	17.54	Peak	232.00	300	Vertical	Pass
5**	12531.485	44.98	54.0	9.02	AV	232.00	300	Vertical	Pass
6	15909.791	55.49	74.0	18.51	Peak	342.00	400	Vertical	Pass
6**	15909.791	44.69	54.0	9.31	AV	342.00	400	Vertical	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1520.099	36.78	74.0	37.22	Peak	267.00	400	Horizontal	Pass
1**	1520.099	28.79	54.0	25.21	AV	267.00	400	Horizontal	Pass
2	4021.103	49.96	74.0	24.04	Peak	117.00	200	Horizontal	Pass
2**	4021.103	34.99	54.0	19.01	AV	117.00	200	Horizontal	Pass
3	7598.198	55.16	74.0	18.84	Peak	173.00	200	Horizontal	Pass
3**	7598.198	42.11	54.0	11.89	AV	173.00	200	Horizontal	Pass
4	12455.892	55.94	74.0	18.06	Peak	140.00	200	Horizontal	Pass
4**	12455.892	43.37	54.0	10.63	AV	140.00	200	Horizontal	Pass
5	16099.105	52.44	74.0	21.56	Peak	214.00	300	Horizontal	Pass
5**	16099.105	42.34	54.0	11.66	AV	214.00	300	Horizontal	Pass
6	17416.523	55.24	74.0	18.76	Peak	148.00	300	Horizontal	Pass
6**	17416.523	46.85	54.0	7.15	AV	148.00	300	Horizontal	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.017	45.15	74.0	28.85	Peak	235.00	100	Vertical	Pass
1**	1336.017	33.84	54.0	20.16	AV	235.00	100	Vertical	Pass
2	1436.990	42.66	74.0	31.34	Peak	214.00	300	Vertical	Pass
2**	1436.990	36.21	54.0	17.79	AV	214.00	300	Vertical	Pass
3	4313.950	47.28	74.0	26.72	Peak	51.00	200	Vertical	Pass
3**	4313.950	38.37	54.0	15.63	AV	51.00	200	Vertical	Pass
4	7590.683	50.77	74.0	23.23	Peak	21.00	300	Vertical	Pass
4**	7590.683	41.01	54.0	12.99	AV	21.00	300	Vertical	Pass
5	12538.414	52.94	74.0	21.06	Peak	157.00	100	Vertical	Pass
5**	12538.414	43.32	54.0	10.68	AV	157.00	100	Vertical	Pass
6	15906.838	53.83	74.0	20.17	Peak	39.00	300	Vertical	Pass
6**	15906.838	43.11	54.0	10.89	AV	39.00	300	Vertical	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1517.764	35.73	74.0	38.27	Peak	326.00	400	Horizontal	Pass
1**	1517.764	26.70	54.0	27.30	AV	326.00	400	Horizontal	Pass
2	4016.532	48.71	74.0	25.29	Peak	100.00	100	Horizontal	Pass
2**	4016.532	35.35	54.0	18.65	AV	100.00	100	Horizontal	Pass
3	7598.862	55.98	74.0	18.02	Peak	64.00	200	Horizontal	Pass
3**	7598.862	43.59	54.0	10.41	AV	64.00	200	Horizontal	Pass
4	12452.643	54.60	74.0	19.40	Peak	165.00	400	Horizontal	Pass
4**	12452.643	43.70	54.0	10.30	AV	165.00	400	Horizontal	Pass
5	16094.567	53.32	74.0	20.68	Peak	220.00	300	Horizontal	Pass
5**	16094.567	42.77	54.0	11.23	AV	220.00	300	Horizontal	Pass
6	17422.194	57.25	74.0	16.75	Peak	17.00	200	Horizontal	Pass
6**	17422.194	49.95	54.0	4.05	AV	17.00	200	Horizontal	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.876	43.91	74.0	30.09	Peak	213.00	300	Vertical	Pass
1**	1332.876	32.75	54.0	21.25	AV	213.00	300	Vertical	Pass
2	1438.098	40.05	74.0	33.95	Peak	47.00	400	Vertical	Pass
2**	1438.098	38.62	54.0	15.38	AV	47.00	400	Vertical	Pass
3	4313.592	49.53	74.0	24.47	Peak	49.00	200	Vertical	Pass
3**	4313.592	40.73	54.0	13.27	AV	49.00	200	Vertical	Pass
4	7596.132	51.56	74.0	22.44	Peak	127.00	400	Vertical	Pass
4**	7596.132	46.48	54.0	7.52	AV	127.00	400	Vertical	Pass
5	12538.802	52.05	74.0	21.95	Peak	140.00	200	Vertical	Pass
5**	12538.802	42.62	54.0	11.38	AV	140.00	200	Vertical	Pass
6	15906.890	52.22	74.0	21.78	Peak	311.00	300	Vertical	Pass
6**	15906.890	43.42	54.0	10.58	AV	311.00	300	Vertical	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.330	39.66	74.0	34.34	Peak	173.00	300	Horizontal	Pass
1**	1521.330	28.10	54.0	25.90	AV	173.00	300	Horizontal	Pass
2	4019.925	49.97	74.0	24.03	Peak	171.00	300	Horizontal	Pass
2**	4019.925	35.72	54.0	18.28	AV	171.00	300	Horizontal	Pass
3	7602.319	51.84	74.0	22.16	Peak	298.00	200	Horizontal	Pass
3**	7602.319	43.40	54.0	10.60	AV	298.00	200	Horizontal	Pass
4	12454.685	55.97	74.0	18.03	Peak	111.00	400	Horizontal	Pass
4**	12454.685	44.31	54.0	9.69	AV	111.00	400	Horizontal	Pass
5	16094.969	55.76	74.0	18.24	Peak	11.00	300	Horizontal	Pass
5**	16094.969	44.38	54.0	9.62	AV	11.00	300	Horizontal	Pass
6	17422.576	59.08	74.0	14.92	Peak	288.00	400	Horizontal	Pass
6**	17422.576	45.35	54.0	8.65	AV	288.00	400	Horizontal	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.787	44.87	74.0	29.13	Peak	213.00	200	Vertical	Pass
1**	1330.787	34.19	54.0	19.81	AV	213.00	200	Vertical	Pass
2	1436.320	39.73	74.0	34.27	Peak	276.00	100	Vertical	Pass
2**	1436.320	38.52	54.0	15.48	AV	276.00	100	Vertical	Pass
3	4313.164	48.28	74.0	25.72	Peak	202.00	200	Vertical	Pass
3**	4313.164	39.06	54.0	14.94	AV	202.00	200	Vertical	Pass
4	7593.955	54.87	74.0	19.13	Peak	140.00	100	Vertical	Pass
4**	7593.955	41.08	54.0	12.92	AV	140.00	100	Vertical	Pass
5	12537.100	52.64	74.0	21.36	Peak	236.00	100	Vertical	Pass
5**	12537.100	46.62	54.0	7.38	AV	236.00	100	Vertical	Pass
6	15910.221	53.72	74.0	20.28	Peak	320.00	400	Vertical	Pass
6**	15910.221	46.05	54.0	7.95	AV	320.00	400	Vertical	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.549	35.90	74.0	38.10	Peak	96.00	300	Horizontal	Pass
1**	1523.549	27.79	54.0	26.21	AV	96.00	300	Horizontal	Pass
2	4020.299	44.74	74.0	29.26	Peak	230.00	400	Horizontal	Pass
2**	4020.299	39.26	54.0	14.74	AV	230.00	400	Horizontal	Pass
3	7598.077	54.13	74.0	19.87	Peak	29.00	200	Horizontal	Pass
3**	7598.077	44.76	54.0	9.24	AV	29.00	200	Horizontal	Pass
4	12454.330	52.46	74.0	21.54	Peak	64.00	200	Horizontal	Pass
4**	12454.330	44.48	54.0	9.52	AV	64.00	200	Horizontal	Pass
5	16092.412	56.43	74.0	17.57	Peak	45.00	300	Horizontal	Pass
5**	16092.412	42.74	54.0	11.26	AV	45.00	300	Horizontal	Pass
6	17421.870	57.96	74.0	16.04	Peak	354.00	100	Horizontal	Pass
6**	17421.870	47.87	54.0	6.13	AV	354.00	100	Horizontal	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.291	46.23	74.0	27.77	Peak	251.00	200	Vertical	Pass
1**	1334.291	35.68	54.0	18.32	AV	251.00	200	Vertical	Pass
2	1442.268	44.34	74.0	29.66	Peak	38.00	300	Vertical	Pass
2**	1442.268	34.42	54.0	19.58	AV	38.00	300	Vertical	Pass
3	4309.789	47.97	74.0	26.03	Peak	308.00	200	Vertical	Pass
3**	4309.789	36.75	54.0	17.25	AV	308.00	200	Vertical	Pass
4	7594.602	55.72	74.0	18.28	Peak	64.00	300	Vertical	Pass
4**	7594.602	41.92	54.0	12.08	AV	64.00	300	Vertical	Pass
5	12533.738	52.97	74.0	21.03	Peak	64.00	200	Vertical	Pass
5**	12533.738	44.08	54.0	9.92	AV	64.00	200	Vertical	Pass
6	15905.469	54.27	74.0	19.73	Peak	101.00	200	Vertical	Pass
6**	15905.469	43.72	54.0	10.28	AV	101.00	200	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass

Test Data**U-NII-1 11a Low Channel**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5075.817	56.52	74.0	17.48	Peak	326.00	100	Horizontal	Pass
1**	5075.817	46.36	54.0	7.64	AV	326.00	100	Horizontal	Pass
2	5150.000	55.04	74.0	18.96	Peak	320.00	200	Horizontal	Pass
2**	5150.000	46.03	54.0	7.97	AV	320.00	200	Horizontal	Pass

U-NII-1 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	53.33	74.0	20.67	Peak	150.00	200	Horizontal	Pass
1**	5350.000	45.21	54.0	8.79	AV	150.00	200	Horizontal	Pass
2	5421.685	57.01	74.0	16.99	Peak	221.00	200	Horizontal	Pass
2**	5421.685	45.15	54.0	8.85	AV	221.00	200	Horizontal	Pass

U-NII-1 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5077.509	57.31	74.0	16.69	Peak	67.00	300	Horizontal	Pass
1**	5077.509	43.77	54.0	10.23	AV	67.00	300	Horizontal	Pass
2	5150.000	55.95	74.0	18.05	Peak	138.00	200	Horizontal	Pass
2**	5150.000	45.09	54.0	8.91	AV	138.00	200	Horizontal	Pass

U-NII-1 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	52.78	74.0	21.22	Peak	7.00	200	Horizontal	Pass
1**	5350.000	43.42	54.0	10.58	AV	7.00	200	Horizontal	Pass
2	5422.909	55.03	74.0	18.97	Peak	214.00	100	Horizontal	Pass
2**	5422.909	45.29	54.0	8.71	AV	214.00	100	Horizontal	Pass

U-NII-1 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5077.225	57.11	74.0	16.89	Peak	125.00	300	Horizontal	Pass
1**	5077.225	45.71	54.0	8.29	AV	125.00	300	Horizontal	Pass
2	5150.000	53.2	74.0	20.80	Peak	281.00	200	Horizontal	Pass
2**	5150.000	42.8	54.0	11.20	AV	281.00	200	Horizontal	Pass

U-NII-1 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	53.54	74.0	20.46	Peak	255.00	100	Horizontal	Pass
1**	5350.000	44.1	54.0	9.90	AV	255.00	100	Horizontal	Pass
2	5424.639	56.09	74.0	17.91	Peak	12.00	100	Horizontal	Pass
2**	5424.639	46.76	54.0	7.24	AV	12.00	100	Horizontal	Pass

U-NII-3 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5643.636	54.51	68.2	13.69	Peak	50.00	300	Horizontal	Pass
2	5650.000	53.06	68.2	15.14	Peak	50.00	300	Horizontal	Pass

U-NII-3 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	53.39	68.2	14.81	Peak	324.00	300	Horizontal	Pass
2	5943.874	57.13	68.2	11.07	Peak	35.00	300	Horizontal	Pass

U-NII-3 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5643.792	60.65	68.2	7.55	Peak	232.00	300	Horizontal	Pass
2	5650.000	56.18	68.2	12.02	Peak	232.00	300	Horizontal	Pass

U-NII-3 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.9	68.2	11.30	Peak	218.00	300	Horizontal	Pass
2	5729.565	61.45	68.2	6.75	Peak	279.00	100	Horizontal	Pass

U-NII-3 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5643.831	58.61	68.2	9.59	Peak	331.00	100	Horizontal	Pass
2	5650.000	55.52	68.2	12.68	Peak	331.00	100	Horizontal	Pass

U-NII-3 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	54.71	68.2	13.49	Peak	254.00	100	Horizontal	Pass
2	5727.830	63.43	68.2	4.77	Peak	122.00	200	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ24B1326-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24B1326-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24B1326-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--