TEST REPORT

Product	:	Home Gateway, Wireless Router
Trade mark	:	ZTE
Model/Type reference	:	ZXHN Z1321
Serial Number	:	N/A
Report Number	:	EED32S80148802
Date of Issue	:	Apr. 01, 2026
Product Class	:	Item 19-3 of Article 2 Paragraph 1, MIC Notice No.88 Appendix No.45
Test result	:	PASS

Prepared for:

ZTE Corporation
ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Compiled by:	Frazer Li	Reviewed by:	Keven Tan
Approved by:	Aaron Ma	Date:	Apr. 01, 2026

Check No.: 2850200126

1 Test Summary

Report Section	Description	Result
5.1.3	Tolerance of frequency	PASS
5.1.4	Occupied Bandwidth	PASS
5.1.5	Adjacent Channel Power Tolerance	PASS
5.1.6	Antenna Power	PASS
5.1.7	Unwanted Emission Strength	PASS
5.1.8	Transmission Burst Length	PASS
5.1.9	Interference prevention function	PASS
5.1.10	Carrier sense capability	PASS
5.1.11	RF accessibility	PASS
5.2.1	Secondary radiated emissions	PASS

NOTE:
1. MIC Ordinance Regulating Radio Equipment Section 3 of Article 49.20.

2 Contents

1 TEST SUMMARY 2

2 CONTENTS 3

3 GENERAL INFORMATION 4

3.1 Client Information 4
3.2 General Description of EUT 4
3.3 EUT Test Environment Recorded 6
3.4 Description of Support Units 7
3.5 Test Location 7
3.6 Measurement Uncertainty (95% confidence levels, k=2) 7

4 EQUIPMENT LIST 8

5 TRANSMITTER REQUIREMENTS 10

5.1 EUT test voltage and Frequency 10
5.1.1 EUT test voltage 10
5.1.2 Test frequency 11
5.2 Antenna Requirement 13
5.3 Tolerance of frequency 14
5.4 Occupied Bandwidth 15
5.5 Adjacent Channel Power Tolerance 16
5.6 Antenna Power 17
5.7 Unwanted Emission Strength 19
5.8 Transmission Burst Length 21
5.9 Interference prevention function 22
5.10 Carrier sense capability 23
5.11 RF accessibility 24
5.12 Receiver Requirements 25
5.12.1 Secondary radiated emissions 25

6 APPENDIX A 26

7 PHOTOGRAPHS 27

3 General Information

3.1 Client Information

Applicant:	ZTE Corporation
Address of Applicant:	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Manufacturer:	ZTE Corporation
Address of Manufacturer:	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China

3.2 General Description of EUT

Product Name:	Home Gateway, Wireless Router		
Model No.(EUT):	ZXHN Z1321		
Test Model No.:	ZXHN Z1321		
Trade mark:	ZTE		
Operating Frequency:	5150-5250MHz (W52 Band) 5250-5350MHz (W53 Band) 5470-5730MHz (W56 Band)		
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE for 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE for 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11ax: OFDMA (1024QAM,256QAM, 64QAM, 16QAM, QPSK, BPSK)		
TPC Function	☒ With TPC Function ☐ Without TPC Function		
DFS Operational mode:	☒ Master ☐ Client without radar detection ☐ Client with radar detection		
Transmit Data Rate:	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n(HT20): MCS0-MCS15 802.11n(HT40): MCS0-MCS15 802.11ac(HE20): MCS0-MCS9 802.11ac(HE40): MCS0-MCS9 802.11ac(HE80): MCS0-MCS9 802.11ac(HE160): MCS0-MCS9 802.11ax(HE20): MCS0-MCS11 802.11ax(HE40): MCS0-MCS11 802.11ax(HE80): MCS0-MCS11 802.11ax(HE160): MCS0-MCS11		
Number of subcarriers:	802.11n (HT20):3/MHz 802.11n (HT40):3/MHz 802.11ac (VHT20):3/MHz 802.11ac (VHT40):3/MHz 802.11ac (VHT80):3/MHz 802.11ac (VHT160):3/MHz 802.11ax (HE20):13/MHz 802.11ax (HE40):13/MHz 802.11ax (HE80):13/MHz 802.11ax (HE160):13/MHz		
Number of Channel:		W52+W53 Band	W56 Band
	20MHz System	8	12
	40MHz System	4	6
	80MHz System	2	3
	160MHz System	1	1

Rated power:	SISO: 4mW/MHz (W52 Band_802.11a-HT20) 4mW/MHz (W52 Band_802.11n-HT20) 2mW/MHz (W52 Band_802.11n-HT40) 4mW/MHz (W52 Band_802.11ac-VHT20) 2mW/MHz (W52 Band_802.11ac-VHT40) 1mW/MHz (W52 Band_802.11ac-VHT80) 4mW/MHz (W52 Band_802.11ax-HE20) 2mW/MHz (W52 Band_802.11ax-HE40) 1mW/MHz (W52 Band_802.11ax-HE80) MIMO: 2mW/MHz (W52 Band_802.11n-HT20) 1mW/MHz (W52 Band_802.11n-HT40) 2mW/MHz (W52 Band_802.11ac-VHT20) 1mW/MHz (W52 Band_802.11ac-VHT40) 0.5mW/MHz (W52 Band_802.11ac-VHT80) 2mW/MHz (W52 Band_802.11ax-HE20) 1mW/MHz (W52 Band_802.11ax-HE40) 0.5mW/MHz (W52 Band_802.11ax-HE80)
	SISO: 2.5mW/MHz (W53 Band_802.11a-HT20) 2.5mW/MHz (W53 Band_802.11n-HT20) 2mW/MHz (W53 Band_802.11n-HT40) 2.5mW/MHz (W53 Band_802.11ac-VHT20) 2mW/MHz (W53 Band_802.11ac-VHT40) 2.5mW/MHz (W53 Band_802.11ac-VHT80) 2.5mW/MHz (W53 Band_802.11ax-HE20) 2mW/MHz (W53 Band_802.11ax-HE40) 1mW/MHz (W53 Band_802.11ax-HE80) MIMO: 1.8mW/MHz (W53 Band_802.11n-HT20) 1mW/MHz (W53 Band_802.11n-HT40) 1.8mW/MHz (W53 Band_802.11ac-VHT20) 1mW/MHz (W53 Band_802.11ac-VHT40) 1.8mW/MHz (W53 Band_802.11ac-VHT80) 1.8mW/MHz (W53 Band_802.11ax-HE20) 1mW/MHz (W53 Band_802.11ax-HE40) 1mW/MHz (W53 Band_802.11ax-HE80)
	SISO: 0.5mW/MHz (W52+W53 Band_802.11ac-VHT160) 0.5mW/MHz (W52+W53 Band_802.11ax-HE160) MIMO: 0.2mW/MHz (W52+W53 Band_802.11ac-VHT160) 0.2mW/MHz (W52+W53 Band_802.11ax-HE160)
	SISO: 5mW/MHz (W56 Band_802.11a-HT20) 5mW/MHz (W56 Band_802.11n-HT20) 2.5mW/MHz (W56 Band_802.11n-HT40) 5mW/MHz (W56 Band_802.11ac-VHT20) 2.5mW/MHz (W56 Band_802.11ac-VHT40) 1.5mW/MHz (W56 Band_802.11ac-VHT80) 0.8mW/MHz (W56 Band_802.11ac-VHT160) 5mW/MHz (W56 Band_802.11ax-HE20) 2.5mW/MHz (W56 Band_802.11ax-HE40) 1.5mW/MHz (W56 Band_802.11ax-HE80) 0.8mW/MHz (W56 Band_802.11ax-HE160)

	MIMO: 5mW/MHz (W56 Band_802.11n-HT20) 2.5mW/MHz (W56 Band_802.11n-HT40) 5mW/MHz (W56 Band_802.11ac-VHT20) 2.5mW/MHz (W56 Band_802.11ac-VHT40) 1.5mW/MHz (W56 Band_802.11ac-VHT80) 0.8mW/MHz (W56 Band_802.11ac-VHT160) 5mW/MHz (W56 Band_802.11ax-HE20) 2.5mW/MHz (W56 Band_802.11ax-HE40) 1.5mW/MHz (W56 Band_802.11ax-HE80) 0.8mW/MHz (W56 Band_802.11ax-HE160)
Antenna Type:	Dipole antenna
Antenna gain :	Type1: Angeei: 5G1: 4dBi, 5G2: 4dBi, 5G3: 4dBi, Beamforming gain: 3dBi Type2: South Star: 5G1: 4dBi, 5G2: 4dBi, 5G3: 4dBi, Beamforming gain: 3dBi
Function:	☒ SISO ☒ 3x3 MIMO
Test Power Grade:	Default
Test Software of EUT:	QA
Power Supply:	DC 12.0V
Test Voltage:	DC 12.0V
Sample Received Date:	Jan. 24, 2026
Sample tested Date:	Jan. 24, 2026 to Mar. 19, 2026

3.3 EUT Test Environment Recorded

Temperature:	25°C
Humidity:	54% RH
Atmospheric Pressure:	1010mbar

3.4 Description of Support Units

The EUT has been tested with associated equipment below.

1）Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Lenovo	ThinkBook 14G 8ITL	FCC / CE	CTI

3.5 Test Location

All tests were performed at:
Centre Testing International Group Co., Ltd.
Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.

3.6 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Frequency Error	10Hz
2	Occupied Bandwidth	10kHz
3	Antenna Power	0.55dB
4	Spurious Emissions	0.46dB(30MHz-1GHz)
		0.55dB(1GHz-18GHz)
5	Carrier sense capability	1.0dB
6	Temperature test	0.64°C
7	Humidity test	3.8%
8	DC and low frequency voltages test	0.026%

4 Equipment List

RF test system						
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	Calibration body
Spectrum Analyzer	Keysight	N9010A	MY54510339	11-25-2025	11-24-2026	CTIMT
Spectrum Analyzer	R&S	FSW43	102978	08-11-2025	08-10-2026	LISAI
Signal Generator	Keysight	N5182B	MY53051549	11-13-2025	11-12-2026	CTIMT
Signal Generator	Agilent	N5181A	MY46240094	11-25-2025	11-24-2026	CTIMT
DC Power	Keysight	E3642A	MY56376072	11-13-2025	11-12-2026	CTIMT
Communication test set	R&S	CMW500	169004	03-03-2025 02-06-2026	03-02-2026 02-05-2027	CTIMT
RF control unit(power unit)	JS Tonscend	JS0806-2	24I80620925	07-21-2025	07-20-2026	CTIMT
Wi-Fi 7GHz Band Extendder	JS Tonscend	TS-WF7U2	2206200002	05-12-2025	05-11-2026	LISAI
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-13-2025	11-12-2026	CTIMT
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-26-2025	05-25-2026	CTIMT
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.6.21	---	---	---
Digital multimeter	FLUKE	17B MAX	59545050WS	10-15-2025	10-14-2026	CTIMT

Remark:

CTI: Centre Testing International Group Co., Ltd
Adress:Build C,Hongwei Industrial Zone, Baoan 70 District, Shenzhen, China
CTIMT: CTI MEASUREMENT AND TESTING CO.,LTD.
Address :Building B and C, Taohuayuan Sci-Tech Innovation Park, Tiegang Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, China
LISAI: Guangzhou LiSai Metrology & Test Co.,Ltd.
Address:No.8.South Street Shi Ji Institute Guangzhou.Guangdong.China

Note: Usage method (c) calibration.

(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992) .
(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to(c).

From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipment is 1 year.

5 Transmitter Requirements

5.1 EUT test voltage and Frequency

5.1.1 EUT test voltage

<table>
<tr><td>Power Supply:</td><td colspan="3">DC 12.0V</td></tr>
<tr><td>Test voltage require:</td><td colspan="3">Supply the rated voltage and the rated voltage ±10% to power supply. However, If the fluctuation of input voltage to the circuit of RF unit (except power supply) of test equipment is under ±1%, when input voltage from external power supply to the test equipment is fluctuated by ±10%: Conduct the test with the rated voltage only.</td></tr>
<tr><td rowspan="5">Power Supply result:</td><td colspan="3">The measurement result of the voltage fluctuation at RF circuit when DC 12V +/- 10%.</td></tr>
<tr><td>Remark</td><td>DC Input</td><td>RF circuit</td></tr>
<tr><td>NV</td><td>10.8V</td><td>3.3V</td></tr>
<tr><td>LV</td><td>12V</td><td>3.3V</td></tr>
<tr><td>HV</td><td>13.8V</td><td>3.3V</td></tr>
<tr><td colspan="3">NT: Normal Temperature
NV: Normal Voltage
LV: Low Voltage
HV: High Voltage</td></tr>
</table>

5.1.2 Test frequency

Test frequencies:	If the EUT can be set to 3 of more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L,M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top. 1 near middle and 1 near bottom

EUT channels and frequencies list:

802.11a 20MHz 802.11n 20MHz 802.11ac 20MHz 802.11ax 20MHz		802.11n 40MHz 802.11ac 40MHz 802.11ax 40MHz		802.11ac 80MHz 802.11ax 80MHz	
W52		W52		W52	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	N/A	N/A
44	5220	N/A	N/A	N/A	N/A
48	5240	N/A	N/A	N/A	N/A

802.11a 20MHz 802.11n 20MHz 802.11ac 20MHz 802.11ax 20MHz		802.11n 40MHz 802.11ac 40MHz 802.11ax 40MHz		802.11ac 80MHz 802.11ax 80MHz	
W53		W53		W53	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310	N/A	N/A
60	5300	N/A	N/A	N/A	N/A
64	5320	N/A	N/A	N/A	N/A

802.11ac 160MHz 802.11ax 160MHz	
W52+W53	
Channel	Frequency (MHz)
50	5250

802.11a 20MHz 802.11n 20MHz 802.11ac 20MHz 802.11ax 20MHz		802.11n 40MHz 802.11ac 40MHz 802.11ax 40MHz		802.11ac 80MHz 802.11ax 80MHz		802.11ac 160MHz 802.11ax 160MHz	
W56		W56		W56		W56	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530	114	5570
104	5520	110	5550	122	5610	N/A	N/A
108	5540	118	5590	138	5690	N/A	N/A
112	5560	126	5630	N/A	N/A	N/A	N/A
116	5580	134	5670	N/A	N/A	N/A	N/A
120	5600	142	5710	N/A	N/A	N/A	N/A
124	5620	N/A	N/A	N/A	N/A	N/A	N/A
128	5640	N/A	N/A	N/A	N/A	N/A	N/A
132	5660	N/A	N/A	N/A	N/A	N/A	N/A
136	5680	N/A	N/A	N/A	N/A	N/A	N/A
140	5700	N/A	N/A	N/A	N/A	N/A	N/A
144	5720	N/A	N/A	N/A	N/A	N/A	N/A

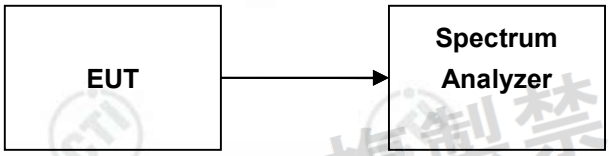
Test channel:

Test mode	Test channel/frequency(MHz)
Mode 1: IEEE 802.11a/n/ac/ax 20MHz W52 mode	CH36/5180, CH40/5200, CH 48/5240
Mode 2: IEEE 802.11n/ac/ax 40MHz W52 mode	CH38/5190, CH46/5230
Mode 3: IEEE 802.11ac/ax 80MHz W52 mode	CH42/5210
Mode 4: IEEE 802.11a/n/ac/ax 20MHz W53 mode	CH52/5260, CH56/5280, CH64/5320
Mode 5: IEEE 802.11n/ac/ax 40MHz W53 mode	CH54/5270, CH62/5310
Mode 6: IEEE 802.11ac/ax 80MHz W53 mode	CH58/5290
Mode 7: IEEE 802.11ac/ax 160MHz W52+W53 mode	CH50/5250
Mode 8: IEEE 802.11a/n/ac 20MHz W56 mode	CH100/5500, CH120/5600, CH144/5720
Mode 9: IEEE 802.11n/ac/ax/be 40MHz W56 mode	CH102/5510, CH118/5590, CH142/5710
Mode 10: IEEE 802.11ac/ax 80MHz W56 mode	CH106/5530, CH122/5610,CH138/5690
Mode 11: IEEE 802.11ac/ax 160MHz W56 mode	CH114/5570

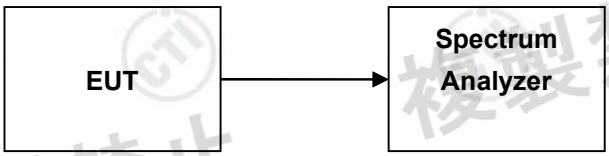
5.2 Antenna Requirement

Standard requirement	
Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.	
EUT Antenna	Refer to internal photos.
Type1 Angeei: The antenna is Dipole antenna. The best case gain of the antenna is 4dBi, Beamforming gain: 3dBi Type2 South Star: The antenna is Dipole antenna. The best case gain of the antenna is 4dBi, Beamforming gain: 3dBi	
Result: An antenna connector is available, all relevant tests will be carried out conducted.	

5.3 Tolerance of frequency

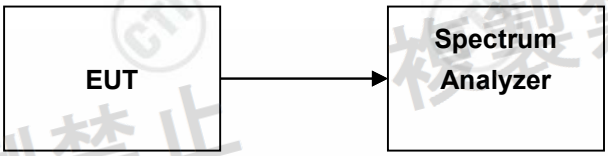
Test Requirement:	Item 19-3 of Article 2 Paragraph 1
Test Status:	Enter the unmodulation mode for the product. Test in Channel lowest, middle and highest, keep in continuously transmitting status.
Test Configuration:	
	
Test Conditions:	Frequency Counter or Spectrum Analyzer is used for measurement.
EUT conditions:	Modulation/Spread/Hopping off, CW Tx If EUT does not accept “Modulation OFF” mode in the measurement, you may use “Modulation ON” mode. In that case you can use the Max power Frequency as the measuring results.
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 1MHz RBW 10kHz (Modulation OFF), VBW 10kHz (Modulation OFF), Sweep Time Auto Detector mode Positive peak Indication mode Max hold
Technical standard:	Tolerance of frequency: $\pm 20\times10^{-6}$
Test result:	Refer to Appendix A

5.4 Occupied Bandwidth

Test Requirement:	Item 19-3 of Article 2 Paragraph 1
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
	
EUT conditions:	Modulation/Spread/Hopping on. For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 40M/80M/160M/320M RBW 300kHz VBW 300kHz Sweep Time Auto detector mode Positive peak Indication mode Max hold OBW 99%
Technical standard:	W52+W53 For BW=20MHz:OFDM≦20MHz; Others≦18MHz For BW=40MHz:OFDM≦40MHz For BW=80MHz:OFDM≦80MHz For BW=160MHz:OFDM≦160MHz
	W56 For BW=20MHz:OFDM≦20MHz; Others≦18MHz For BW=40MHz:OFDM≦40MHz For BW=80MHz:OFDM≦80MHz For BW=160MHz:OFDM≦160MHz
Test result:	Refer to Appendix A

5.5 Adjacent Channel Power Tolerance

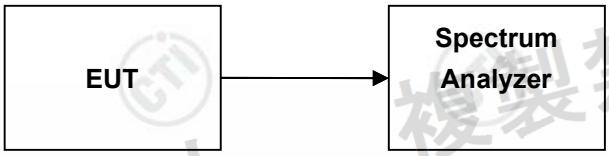
Test Requirement:	Item 19-3 of Article 2 Paragraph 1
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	



EUT conditions:	Modulation/Spread/Hopping on. For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions:	Frequency: Test Frequency RBW 300kHz VBW 300kHz Tx bandwidth 20MHz Adjacent channel bandwidth 20MHz, Channel spacing 20MHz Alternate channel bandwidth 20MHz, Channel spacing 40MHz Sweep Time Auto Detector mode Positive peak Indication mode Max hold
Technical standard:	W52+W53 20MHz system (OB: below 20MHz) (1) Mean power of ±10MHz; bandwidth at 20MHz; detuning :- 25dBc (2) Mean power of ±10MHz; bandwidth at 40MHz; detuning : -40dBc 40MHz system (OB: over 20, below 40MHz) (1) Mean power of ±20MHz; bandwidth at 40MHz; detuning : -25dBc (2) Mean power of ±20MHz; bandwidth at 80MHz; detuning : -40dBc 80MHz system (OB: over 40, below 80MHz) Mean power of ±40MHz; bandwidth at 80MHz; detuning : -25dBc
	W56 20MHz system (OB: below 20MHz) (1) Mean power of ±10MHz; bandwidth at 20MHz; detuning : 25dBc (2) Mean power of ±10MHz; bandwidth at 40MHz; detuning : 40dBc 40MHz system (OB: over 20, below 40MHz) (1) Mean power of ±20MHz; bandwidth at 20MHz; detuning : 25dBc (2) Mean power of ±20MHz; bandwidth at 40MHz; detuning : 40dBc 80MHz system (OB: over 40, below 80MHz) Mean power of ±39MHz; bandwidth at 80MHz; detuning : 25dBc
Test result:	Refer to Appendix A

Note: The cable loss and antenna gain have been put into spectrum analyzer as amplitude offset.

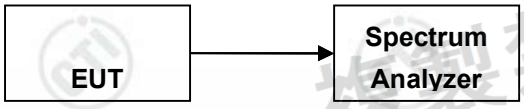
5.6 Antenna Power

Test Requirement:	Item 19-3 of Article 2 Paragraph 1
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
	
EUT conditions:	Modulation/Spread/Hopping on For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions:	Step Frequency: Test Frequency Span 40MHz/80MHz/160MHz/320MHz RBW 1MHz VBW 1MHz Sweep Time Auto Detector mode Positive peak Indication mode Max hold Step 2 Frequency: Test Frequency Span: 0MHz RBW: 1MHz/3MHz VBW: 1MHz/3MHz Sweep: Time Auto Detector mode: RMS Indication mode: Clear Write
Technical standard:	W52 20MHz sys: 10mW/MHz or less 40MHz sys: 5mW/MHz or less 80MHz sys: 2.5mW/MHz or less
	W53 20MHz sys: 10mW/MHz or less 40MHz sys: 5mW/MHz or less 80MHz sys: 2.5mW/MHz or less
	W52+W53 160MHz sys: 1.25mW/MHz or less

	W56 20MHz sys: 10mW/MHz or less 40MHz sys: 5mW/MHz or less 80MHz sys: 2.5mW/MHz or less 160MHz sys: 1.25mW/MHz or less	
Tolerance:	W52/W53	+20%, -80%
	W56	+50%, -50%
E.I.R.P.	W52 20MHz sys: 10mW/MHz or less 40MHz sys: 5mW/MHz or less 80MHz sys: 2.5mW/MHz or less	
	W53 20MHz sys: 10mW/MHz or less (With TPC) 40MHz sys: 5mW/MHz or less (With TPC) 80MHz sys: 2.5mW/MHz or less (With TPC) 20MHz sys: 5mW/MHz or less (Without TPC) 40MHz sys: 2.5mW/MHz or less (Without TPC) 80MHz sys: 1.25mW/MHz or less (Without TPC)	
	W52+W53 160MHz sys: 1.25mW/MHz or less (With TPC) 160MHz sys: 0.625mW/MHz or less (Without TPC)	
	W56 20MHz sys: 50mW/MHz or less (With TPC) 40MHz sys: 25mW/MHz or less (With TPC) 80MHz sys: 12.5mW/MHz or less (With TPC) 160MHz sys: 6.25mW/MHz or less (With TPC) 20MHz sys: 25mW/MHz or less (Without TPC) 40MHz sys: 12.5mW/MHz or less (Without TPC) 80MHz sys: 6.25mW/MHz or less (Without TPC) 160MHz sys: 3.125mW/MHz or less (Without TPC)	
Test result:	Refer to Appendix A	

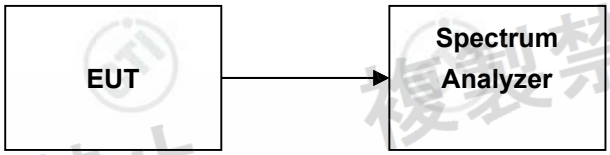
Note: The cable loss have been put into spectrum analyzer as amplitude offset.

5.7 Unwanted Emission Strength

Test Requirement:	Item 19-3 of Article 2 Paragraph 1
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
	
EUT conditions:	Modulation/Spread/Hopping on. For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions:	Step1 All spurious are measured from 30MHz to 26 GHz by peak mode. Step 2: Frequency: Spurious Frequency RBW 100kHz (30MHz-1GHz), 1000kHz (over 1GHz) VBW 100kHz (30MHz-1GHz), 1000kHz (over 1GHz) Sweep Time Auto Detector mode Sample Indication mode Max hold
Technical standard:	**W52** **20MHz system** OB: below 18MHz: Below 5140MHz, ≤2.5μW/MHz Over 5360MHz, ≤2.5μW/MHz OB: over 18MHz, below 19MHz Below 5135MHz, ≤2.5μW/MHz Over 5365MHz, ≤2.5μW/MHz **40MHz system** OB:From 19MHz to 38MHz Below 5100MHz, ≤2.5μW/MHz Over 5400MHz, ≤2.5μW/MHz **80MHz system** OB:From 38MHz to 78MHz Below 5020MHz, ≤2.5μW/MHz Over 5480MHz, ≤2.5μW/MHz
	W53 **20MHz system** OB:≤18MHz 30-5233.3MHz, ≤2.5μW/MHz 5233.3-5240MHz (Df:26.7-20MHz), ≤$10^{-1.8-(6/50)(Df-20)}$mW/MHz 5240-5249MHz (Df:20-11MHz), ≤$10^{-1-(8/90)(Df-11)}$mW/MHz 5249-5250MHz (Df:11-10MHz), ≤$10^{1-(Df-9)}$mW/MHz 5350MHz-26GHz, ≤2.5μW/MHz OB:18-19MHz 30-5233.3MHz, ≤2.5μW/MHz

	5233.3-5240MHz (Df:26.7-20MHz), ≤$10^{-1.8-(6/50)(Df-20)}$mW/MHz 5240-5249MHz (Df:20-11MHz), ≤$10^{-1-(8/90)(Df-11)}$mW/MHz 5249-5250MHz (Df:11-20MHz), ≤$10^{1-(Df-9)}$mW/MHz 5350MHz-26GHz, ≤2.5μW/MHz **40MHz system** OB:19-38MHz 30-5210MHz, ≤2.5μW/MHz 5210-5221.6MHz, ≤15μW/MHz 5221.6-5230MHz (Df:48.4-40MHz), ≤$10^{-(3/50)(Df-40)-1.8+\log(1/2)}$mW/MHz 5230-5249MHz (Df: 40-21MHz), ≤$10^{-(8/190)(f-21)-1+\log(1/2)}$mW/MHz 5249-5250MHz (Df: 21-20MHz), ≤$10^{-(Df-20)+\log(1/2)}$mW/MHz 5350-5358.4MHz, ≤15μW/MHz 5358.4MHz-26GHz, ≤2.5μW/MHz **80MHz system** OB:38-78MHz 30-5203.3MHz, ≤2.5μW/MHz 5203.3-5210MHz (Df:86.7-80MHz), ≤$10^{-(3/100)(Df-80)-1.8+\log(1/4)}$mW/MHz 5210-5249MHz (Df:80-41MHz), ≤$10^{-(8/390)(Df-41)-1+\log(1/4)}$mW/MHz 5249-5250MHz (Df:41-40MHz), ≤$10^{-(Df-80)+\log(1/4)}$mW/MHz 5350-5376.8MHz, ≤15μW/MHz 5376.8MHz-26GHz, ≤2.5μW/MHz
	W52+W53 **160MHz system** OB:≤160MHz Below 5099.6MHz, ≤2.5μW/MHz 5099.6-5150MHz, ≤15μW/MHz 5350-5400.4MHz, ≤15μW/MHz Over 5400.4MHz, 2.5μW/MHz
	W56 **20MHz system** OB: ≤20MHz (exclude OFDM) 30-5470MHz, ≤12.5μW/MHz 5730MHz-26GHz, ≤12.5μW/MHz OB: ≤20MHz (OFDM) 30-5460MHz, ≤2.5μW/MHz 5460-5470MHz, ≤12.5μW/MHz 5745-5765MHz, ≤12.5μW/MHz 5765MHz-26GHz, ≤2.5μW/MHz **40MHz system** OB: 20-40MHz 30-5460MHz, ≤12.5μW/MHz 5460-5470MHz, ≤50μW/MHz 5770MHz-26GHz, ≤12.5μW/MHz **80MHz system** OB: 40-80MHz 30-5460MHz, ≤12.5μW/MHz 5460-5469.5MHz, ≤50μW/MHz 5469.5-5470MHz, ≤51.2μW/MHz 5770MHz-26GHz, ≤12.5μW/MHz **160MHz system** OB:≤160MHz Below 5419.6MHz, ≤12.5μW/MHz 5419.6-5470MHz, ≤50μW/MHz Over 5470MHz, ≤12.5μW/MHz
Test result:	Refer to Appendix A

5.8 Transmission Burst Length

Test Requirement:	Item 19-3 of Article 2 Paragraph 1
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
	
EUT conditions:	Modulation/Spread/Hopping on. For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 0MHz RBW 1MHz, VBW 1MHz, Sweep Time: ≧1ms Detector mode Positive peak Indication mode Max hold
Technical standard:	Burst length ≤ 8ms
Test result:	Refer to Appendix A

5.9 Interference prevention function

Test Procedure

1)For EUTs capable of automatically transmitting identification data

a. Transmit identification data from EUT to Demodulator

b. Confirm identification data is correctly received by Demodulator

2)For EUTs capable of automatically receiving identification data

c. Transmit identification data from Link Partner to EUT

d. Confirm communication link is established

e. Link Partner shall respond by transmitting different identification data back to the EUT

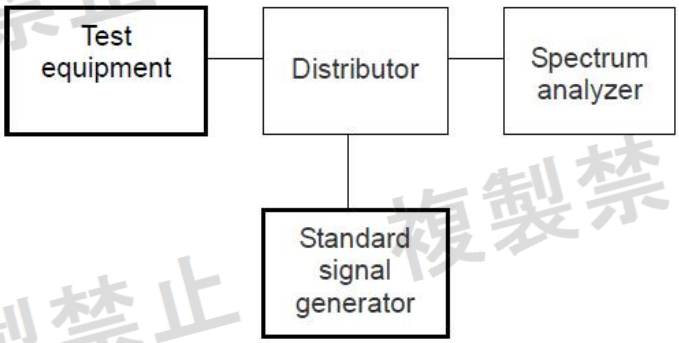
f. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different

Test result:

MAC: 38-16-5A-6D-8F-40

The unit does meet the requirements.(PASS)

5.10 Carrier sense capability

Test Requirement:	Item 19-3 of Article 2 Paragraph 1
Test Status:	The EUT state shall be “normal mode link with wireless router”
Test Configuration:	
	
Measurement Procedure:	1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on 22.79+Gr-20*log(F)dBm) (Gr is the antenna gain, F is the transmission frequency). 2. Turn off the RF signal of the SG. 3. EUT have transmitted the maximum modulation signal and fixed channelize. 4. Setting of SA: RBW/VBW=1MHz/1MHz, Span= 50MHz, Sweep time= auto, Sweep mode= continuous, Detect mode=positive peak 5. SG RF signal on, 6. Record the result, 7. SG RF signal off, 8. Record the result.
Technical standard:	EUT shall be stop the transmitted any signal and SG RF signal off.
Test result:	The unit does meet the requirements (Good). Refer to Appendix A

.

5.11 RF accessibility

Standard requirement

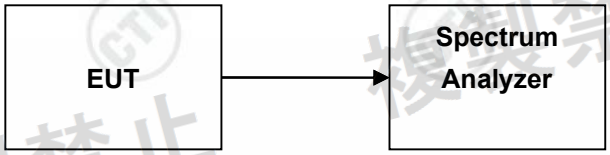
Article 49-20, paragraph 1 (a)

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

☐ Sealed with special screws.
☐ Plastic chassis is being welded using ultrasonic waves.
☐ Chassis is glued using a special adhesive.
☐ Metal covers are spot-fused.
☐ Cover is specially interlocked.
☐ RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is glued with anon-transparent laminating agent.
☒ RF and Modulation parts are mounted on PCB with surface mount technology, the antenna is printed on PCB, chip is welded on PCB,and there is no any adjustable parts on PCB or adjustable parts are not exposed.
Refer to internal photos.

5.12 Receiver Requirements

5.12.1 Secondary radiated emissions

Test Requirement:	Item 19-3 of Article 2 Paragraph 1
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
	
EUT conditions:	Rx
Spectrum Analyzer conditions:	Step 1 All spurious are measured from 30 MHz to 26 GHz by peak mode. Step 2: Frequency: Spurious Frequency RBW 100kHz (30MHz-1GHz) , 1MHz (over 1GHz) VBW 100kHz (30MHz-1GHz) , 1MHz (over 1GHz) Sweep Time Auto Detector mode Sample Indication mode Max hold
Technical standard:	(1) Below 1GHz : 4nW (2) 1GHz or higher : 20nW
Test result:	Refer to Appendix A

6 Appendix A

Refer to Appendix: 5.2G Wi-Fi of EED32S80148802, 5.3G Wi-Fi of EED32S80148802, 5.6G Wi-Fi of EED32S80148802

7 PHOTOGRAPHS

Refer to Appendix Photographs of Report No. EED32S80148801.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

3. The result(s) shown in this report refer(s) only to the sample(s) tested;

4. Unless otherwise stated,the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***