



RADIO TEST REPORT

Article 2 paragraph 1 item 19-3

MIC notice 88 Appendix 45

Product : Tablet PC

Trade Mark : Azeyou

Model Name : M17T11

Family Model : AT1101J, AT1002, 1003, 1008, AT1101,
1102, 1103, AT1201, 1202, 1203

Report No. : S24122004801004

Prepared for

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TEST RESULT CERTIFICATION

Applicant's name..... Dongguan Lianzhou Electronic Technology Co., Ltd.

Address..... Building 1, No. 10, Feng Gang Technology Road, Feng Gang Town,
DongGuan City, GuangDong Province.

Manufacturer's Name..... Dongguan Lianzhou Electronic Technology Co., Ltd.

Address..... Building 1, No. 10, Feng Gang Technology Road, Feng Gang Town,
DongGuan City, GuangDong Province.

Test specification:

Standard..... Article 2 paragraph 1 item 19-3
MIC Notice No.88 Appendix No.45

Test item description

Product name..... Tablet PC

Trade Mark..... Azeyou

Model and/or type..... M17T11, AT1101J, AT1002, 1003, 1008, AT1101, 1102, 1103, AT1201,
reference 1202, 1203

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with MIC requirements. And it is applicable only to the tested sample identified in the report.

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Test Sample Number..... S241220048001

Date (s) of performance of tests . Dec. 24, 2024 ~ Jan. 09, 2025

Date of Issue Jan. 09, 2025

Test Result..... **Pass**

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※ ※ Revision History ※ ※

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard	Method	Description of Test	Result
Article 2 paragraph 1 item (19)-3	MIC Notice No.88 Appendix No.45.3	Frequency Error	Complies
	MIC Notice No.88 Appendix No.45.4	Occupied Bandwidth (99%)	Complies
	MIC Notice No.88 Appendix No.45.6	RF Output Power/Tolerance	Complies
	MIC Notice No.88 Appendix No.45.6	E.I.R.P	Complies
	MIC Notice No.88 Appendix No.45.5	Unwanted Emission Strength	Complies
	MIC Notice No.88 Appendix No.45.7	Adjacent Channel Leakage Power	Complies
	MIC Notice No.88 Appendix No.45.8	Out-Band Leakage Power	Complies
	MIC Notice No.88 Appendix No.45.9	Secondary Radiation Emission Strength	Complies
	MIC Notice No.88 Appendix No.45.3.10	Transmission Burst Length	Complies
	MIC Notice No.88 Appendix No.45.11	Interference Prevention Function	Complies
	MIC Notice No.88 Appendix No.45.12	Carrier Sensing Function	Complies
	MIC Notice No.88 Appendix No.45.13,14	DFS	Complies
	MIC Ordinance Regulating Radio Equipment Section 1.A of Article 49.20.3	Construction Protection Confirmation	Please refer to Japan Radio Protection Declaration

Note: "N/A" means not applicable in the report.

1.1 TEST FACILITY

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : Building 1, 2, 11, 12, No. 24 Xinfa East Road, Xiangshan Community,
Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China.**1.2 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	Radiated Emission Test	$\pm 4.7\text{dB}$
3	RF power,conducted	$\pm 0.16\text{dB}$
4	Spurious emissions,conducted	$\pm 0.21\text{dB}$
5	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
6	All emissions,radiated(>1G)	$\pm 5.0\text{dB}$
7	Radio Frequency	$\pm 1 \times 10^{-6}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC	
Trade Mark	Azeyou	
Model Name	M17T11	
Family Model	AT1101J, AT1002, 1003, 1008, AT1101, 1102, 1103, AT1201, 1202, 1203	
Model Difference	All models are the same circuit and RF module, except for model names.	
Product Description	The EUT is Tablet PC	
	Operation Frequency:	5150.0MHz ~ 5250.0MHz 5250.0MHz ~ 5350.0MHz 5470.0MHz ~ 5725.0MHz
	Modulation Type:	802.11a:OFDM (BPSK / QPSK / 16QAM, 64 QAM) 802.11n:OFDM (QPSK/BPSK/16QAM/64QAM) 802.11ac:OFDM (QPSK/BPSK/16QAM/64QAM/256QAM)
	Number Of Channel	Please see Note 3.
	DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection
	Support TPC	☐ YES ☒ NO
	Antenna Designation:	FPC Antenna
	Antenna Gain	Antenna: 1.36 dBi
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Channel List	Please refer to the Note 3.	
Adapter	Model: TEKA-UCA20JP Input: 100-240V~ 50/60Hz 0.35A MAX Output: 5.0V---2.0A	
Battery	DC 3.8V, 4000mAh	
Rating(s)	DC 3.8V from battery or DC 5V from adapter	
Hardware Version	T30-T616-V2.0-230725-LU	
Software Version	Android 15	

Note:

1 Frequency used for the ARIB STD-T71:

(a) The frequency used in the 20 MHz system shall be one of the following.

① 5,180 MHz, 5,200 MHz, 5,220 MHz, 5,240 MHz, 5,260 MHz, 5,280 MHz, 5,300 MHz or 5,320 MHz

② 5,500 MHz, 5,520 MHz, 5,540 MHz, 5,560 MHz, 5,580 MHz, 5,600 MHz, 5,620 MHz, 5,640 MHz, 5,660 MHz, 5,680 MHz or 5,700 MHz

(b) The frequency used in the 40 MHz system shall be one of the following.

① 5,190 MHz, 5,230 MHz, 5,270 MHz or 5,310 MHz

② 5,510 MHz, 5,550 MHz, 5,590 MHz, 5,630 MHz or 5,670 MHz

(c) The frequency used in the 80 MHz system shall be one of the following.

① 5,210 MHz or 5,290 MHz

② 5,530 MHz or 5,610 MHz

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

3. Carrier Frequency Channel (802.11a)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	48	5240
52	5260	56	5280	60	5300	64	5320
100	5500	104	5520	108	5540	112	5560
116	5580	120	5600	124	5620	128	5640
132	5660	136	5680	140	5700		

Carrier Frequency Channel (802.11n20/ac20)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	48	5240
52	5260	56	5280	60	5300	64	5320
100	5500	104	5520	108	5540	112	5560
116	5580	120	5600	124	5620	128	5640
132	5660	136	5680	140	5700		

Carrier Frequency Channel (802.11n40/ac40)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	54	5270	62	5310
102	5510	110	5550	118	5590	126	5630
134	5670						

802.11ac (80MHz) Carrier Frequency Channel

Channel	Frequency (MHz)
42	5210
58	5290
106	5530
122	5610

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11a /n(20)/ac(20): CH 36/ CH 40/ CH 48/CH 52/ CH 56/ CH 64/ CH100/ CH120/ CH 140
Mode 2	802.11n(40)/ac(40): CH 38/ CH 46/CH 54/ CH 62/ CH 102/CH 118/ CH 134
Mode 3	802.11ac(80):CH 42/ CH 58/ CH 106/ CH 122

Note: (1) This device 5GHz and 2.4GHz can not transmit simultaneously.

2.3 TEST CONDITIONS

The WIFI module was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
DC Power	DC 3.8V	DC 4.18V	DC 3.42V
RF Chip	DC 3.3V	DC 3.3V	DC 3.3V

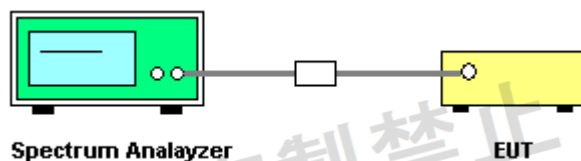
NOTE:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Tablet PC	M17T11	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	SPECTRUM ANALYZER	AGLIENT	E4440A	MY41000130	2024.04.26	2025.04.25	1 Year
2	SPECTRUM ANALYZER	AGILENT	N9020A	MY49100060	2024.04.26	2025.04.25	1 year
3	TEST RECEIVER	R&S	ESPI7	101318	2024.04.26	2025.04.25	1 Year
4	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200983705	2024.04.26	2027.04.25	3 year
5	HORN ANTENNA	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
6	HORN ANT	SCHWARZBECK	BBHA 9170	9170-181	2024.05.12	2027.05.11	3 year
7	PRE-AMPLIFIER	EMC	EMC051835SE	980246	2024.04.25	2025.04.24	1 year
8	POWER METER	DARE	RPR3006W	15100041SN084	2024.04.25	2025.04.24	1 year
9	TEMPORARY ANTENNA CONNECTOR (NOTE)	NTS	R001	N/A	N/A	N/A	N/A
10	DC POWER SUPPLY	ZHAOXIN	PS-6005D	20170402923	2024.04.25	2027.04.24	3 year
11	ESG VECTOR SIGNAL GENERATOR	AGILENT	E4438C	MY45093347	2024.04.26	2025.04.25	1 year
12	PSG ANALOG SIGNAL GENERATOR	AGILENT	E8257D	MY51110112	2024.05.30	2025.05.29	1 year

Note: These devices are China's Guangzhou Lisai Calibration Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFTtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

3. FREQUENCY ERROR

3.1 LIMIT

Item	Limits
Frequency Error	+/-20ppm

3.2 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

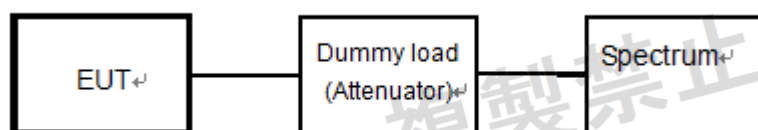
Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.3 TEST PROCEDURES

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

3.4 TEST SETUP LAYOUT



3.5 EUT OPERATION DURING TEST

The EUT was placed on the test table and programmed in un-modulation function.

3.6 TEST RESULT

EUT:	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Pressure :	1012 hPa	Operation Mode:	unmodulated-(5.2G&5.3G&5.6G)

Test data reference attachment

4. OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

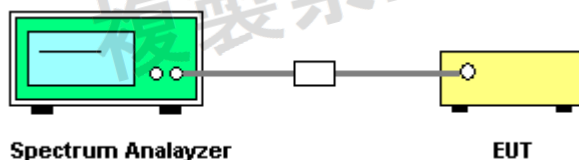
4.1 LIMIT

Items	Limits
(a) ①② for Section 2.1, Note 1	≤20MHz;
(b) ①② for Section 2.1, Note 1	≤40MHz
(c) ①② for Section 2.1, Note 1	≤80MHz

4.2 TEST PROCEDURES

- Setting of SA is following as: RBW: 300KHz /VBW:300KHz/Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
- EUT have transmitted each modulation signal and fixed channelize (For DSSS or OFDM Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than specific value as section 3.2.1.

4.3 TEST SETUP LAYOUT



4.4 TEST DEVIATION

There is no deviation with the original standard.

4.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

EUT :	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Pressure :	1012 hPa	Operation Mode:	Normal Voltage-802.11a/n/ac mode(5.2G&5.3G&5.6G)

Test data reference attachment

5. SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

5.1 LIMIT

W52			
20MHz system		40MHz system	80MHz system
OBW : 18MHz or less	OBW : 18 - 20 MHz		
5,142 MHz or less : 2.5 μ W/MHz	5,142 MHz or less : 2.5 μ W/MHz	5,141.6 MHz or less : 2.5 μ W/MHz	5,123.2 MHz or less : 2.5 μ W/MHz
5,142 - 5,150 MHz : 15 μ W/MHz	5,142 - 5,150 MHz : 15 μ W/MHz	5,141.6 - 5,150 MHz : 15 μ W/MHz	5,123.2 - 5,150 MHz : 15 μ W/MHz
	5,250 - 5,250.2 MHz : $10^{-1} \cdot (9/70) \cdot (f - 9.75)$ mW/MHz		
5,250 - 5,251 MHz : $10^{-1} \cdot (f - 9)$ mW/MHz	5,250.2 - 5,251 MHz : $10^{-1} \cdot (f - 9)$ mW/MHz	5,250 - 5,251 MHz : $10^{-1} \cdot (f - 9) + \log(1/2)$ mW/MHz	5,250 - 5,251 MHz : $10^{-1} \cdot (f - 9) + \log(1/4)$ mW/MHz
5,251 - 5,260 MHz : $10^{-1} \cdot (9/90) \cdot (f - 11)$ mW/MHz	5,251 - 5,260 MHz : $10^{-1} \cdot (9/90) \cdot (f - 11)$ mW/MHz	5,251 - 5,270 MHz : $10^{-1} \cdot (9/90) \cdot (f - 21) - 1 + \log(1/2)$ mW/MHz	5,251 - 5,260 MHz : $10^{-1} \cdot (9/90) \cdot (f - 41) - 1 + \log(1/4)$ mW/MHz
5,260 - 5,266.7 MHz : $10^{-1} \cdot 1.8 - (6/50) \cdot (f - 20)$ mW/MHz	5,260 - 5,266.7 MHz : $10^{-1} \cdot 1.8 - (6/50) \cdot (f - 20)$ mW/MHz	5,270 - 5,278.4 MHz : $10^{-1} \cdot (3/50) \cdot (f - 40) - 1.8 + \log(1/2)$ mW/MHz	5,260 - 5,266.7 MHz : $10^{-1} \cdot (3/100) \cdot (f - 80) - 1.8 + \log(1/4)$ mW/MHz
5,266.7 MHz or more : 2.5 μ W/MHz	5,266.7 MHz or more : 2.5 μ W/MHz	5,278.4 MHz or more : 2.5 μ W/MHz	5,266.7 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)

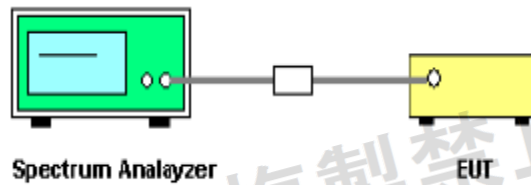
W53			
20MHz system		40MHz system	80MHz system
OBW : 18MHz or less	OBW : 18 - 20 MHz		
5,233.3 MHz or less : 2.5 μ W/MHz	5,233.3 MHz or less : 2.5 μ W/MHz	5,221.6 MHz or less : 2.5 μ W/MHz	5,203.3 MHz or less : 2.5 μ W/MHz
5,233.3 - 5,240 MHz : $10^{-1} \cdot 1.8 - (6/50) \cdot (f - 20)$ mW/MHz	5,233.3 - 5,240 MHz : $10^{-1} \cdot 1.8 - (6/50) \cdot (f - 20)$ mW/MHz	5,221.6 - 5,230 MHz : $10^{-1} \cdot (3/50) \cdot (f - 40) - 1.8 + \log(1/2)$ mW/MHz	5,203.3 - 5,210 MHz : $10^{-1} \cdot (3/100) \cdot (f - 80) - 1.8 + \log(1/4)$ mW/MHz
5,240 - 5,249 MHz : $10^{-1} \cdot (9/90) \cdot (f - 11)$ mW/MHz	5,240 - 5,249 MHz : $10^{-1} \cdot (9/90) \cdot (f - 11)$ mW/MHz	5,230 - 5,249 MHz : $10^{-1} \cdot (9/90) \cdot (f - 21) - 1 + \log(1/2)$ mW/MHz	5,210 - 5,249 MHz : $10^{-1} \cdot (9/90) \cdot (f - 41) - 1 + \log(1/4)$ mW/MHz
5,249 - 5,250 MHz : $10^{-1} \cdot (f - 9)$ mW/MHz	5,249 - 5,249.8 MHz : $10^{-1} \cdot (f - 9)$ mW/MHz	5,249 - 5,250 MHz : $10^{-1} \cdot (f - 20) + \log(1/2)$ mW/MHz	5,249 - 5,250 MHz : $10^{-1} \cdot (f - 40) + \log(1/4)$ mW/MHz
	5,249.8 - 5,260 MHz : $10^{-1} \cdot (9/70) \cdot (f - 9.75)$ mW/MHz	5,350 - 5,358.4 MHz : 15 μ W/MHz	5,350 - 5,376.8 MHz : 15 μ W/MHz
5,350 MHz or more : 2.5 μ W/MHz	5,350 MHz or more : 2.5 μ W/MHz	5,358.4 MHz or more : 2.5 μ W/MHz	5,376.8 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)

W56			
20MHz system		40MHz system	80MHz system
DSSS, etc.	OFDM		
5,470 MHz or less : 12.5 μ W/MHz	5,460 MHz or less : 2.5 μ W/MHz	5,460 MHz or less : 12.5 μ W/MHz	5,460 MHz or less : 12.5 μ W/MHz
	5,460 - 5,470 MHz : 12.5 μ W/MHz	5,460 - 5,470 MHz : 50 μ W/MHz	5,460 - 5,469.5 MHz : 50 μ W/MHz
	5,745 - 5,765 MHz : 12.5 μ W/MHz		5,469.5 - 5,470 MHz : 51.2 μ W/MHz
5,730 MHz or more : 12.5 μ W/MHz	Over 5,765 MHz : 2.5 μ W/MHz	5,770 MHz or more : 12.5 μ W/MHz	5,770 MHz or more : 12.5 μ W/MHz

5.2. TEST PROCEDURES

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB:1MHz / VB:1MHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Average
Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W.
- SA adjusted to start frequency and stop frequency 26GHz .Then to mark peak reading value + cable loss shall be less than 2.5 μ W/MHz.
- If the Result Value is over the requirement, we need to measurement as below steps
- Span 1~10MHz to find the frequency that have maximum value.
- Setting of SA is following as: Span: Zero/RBW: 100KHz/VBW: 100KHz under 1GHz,
Sweep time: Auto / Sweep Mode: Singled sweep / Detect mode: Sample.
- Calculated the mean power value, add all value of test point and division sample point number.
- Report the mean power

5.3. TEST SETUP LAYOUT



5.4. TEST DEVIATION

There is no deviation with the original standard.

5.5. TEST RESULT

EUT :	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Pressure :	1012 hPa	Operation Mode:	Normal Voltage-802.11a/n/ac mode(5.2G&5.3G&5.6G)

Test data reference attachment

6. ADJACENT CHANNEL POWER TOLERANCE

6.1 LIMIT

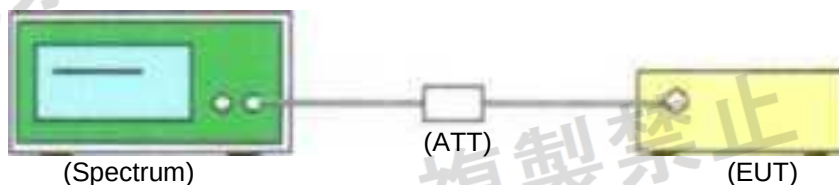
802.11a & 802.11n/ac (20MHz/40MHz/80MHz)

LIMIT
(BW _{ch} 20MHz & CP/OBW≤18MHz) - fc±20MHz ≥25dB; fc±40MHz ≥40dB
(BW _{ch} 20MHz & CP/OBW≤20MHz) - fc±20MHz ≥25dB; fc±40MHz ≥40dB
(BW _{ch} 40MHz & CP/OBW≤40MHz) - fc±40MHz ≥25dB; fc±80MHz ≥40dB
(BW _{ch} 80MHz & CP/OBW≤80MHz) - fc±80MHz ≥25dB
(BW _{ch} 80+80MHz & CP/OBW≤80MHz) - fc±80MHz ≥25dB
(BW _{ch} 160MHz & CP/OBW≤160MHz) - N/A

6.2 TEST PROCEDURES

1. EUT has the continuous reception mode and fixed only one channelize.
2. SA set RBW: 300KHz and VBW: 300KHz, Span 100MHz (BW=20MHz/200MHz(BW=40MHz), RMS Detector, trace Maximum Hold and use ACLR Option.
3. Frequency spacing and measuring bandwidth be specified in section 3.6.1.
4. Reporting the worst value

6.3 TEST SETUP



6.4 TEST DEVIATION

There is no deviation with the original standard.

6.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

EUT :	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Pressure :	1012 hPa
Test result:	Pass		

Test data reference attachment

7. RF OUTPUT POWER / TOLERANCE

7.1 LIMIT

Band	Item	Limits
W52 Band W53 Band W56 Band	Antenna Power Density	$\leq 10\text{mW}(\text{Other})$ or $\leq 10\text{mW/MHz}(\text{DS, OBW} \leq 18\text{MHz})$ $\leq 10\text{mW/MHz}(\text{OFDM, OBW} \leq 20\text{MHz})$ $\leq 5\text{mW/MHz}(\text{OFDM, OBW} \leq 40\text{MHz})$ $\leq 2.5\text{mW/MHz}(\text{OFDM, OBW} \leq 80\text{MHz})$
W52 Band W53 Band	Antenna Power Error	+20%, -80%
W56 Band		+50%, -50%

7.2 TEST DEVIATION

There is no deviation with the original standard.

7.3 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

7.4 TEST PROCEDURES

1. Scanning bandwidth: occupying about twice the bandwidth of the frequency band

Resolution bandwidth: 1MHz

Video bandwidth: about 3 times the resolution bandwidth

Scanning time: the minimum time required to ensure measurement accuracy

Scanning mode: Continuous scanning

Detection mode: positive peak value

Display mode: Maximum hold

2. Provide the maximum power frequency of the center frequency (search frequency)

Scanning frequency width: 0Hz

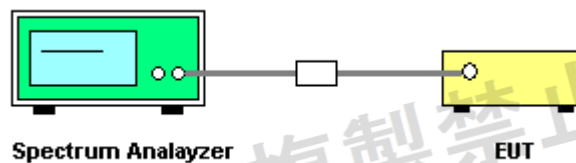
Resolution bandwidth: 1MHz

Video bandwidth: Same as resolution bandwidth

Scanning mode: Continuous scanning

3. Antenna Power Error is definition that actual measure antenna power tolerance between +20% to -80% power range that base on manufacturer declare the conducted power density.

7.5 TEST SETUP



7.6 TEST RESULT

EUT :	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Pressure :	1012 hPa	Normal Voltage	802.11a/n/ac mode(5.2G&5.3G&5.6G)

Test data reference attachment

8. E.I.R.P MEASUREMENT

8.1 LIMIT

Band	E.I.R.P Power (mW/MHz) Limits				Note
	20MHz	40MHz	80MHz	160MHz	
W52	10	5	2.5	1.25	
W53	10	5	2.5	1.25	With TPC
	5	2.5	1.25	0.625	Without TPC
W56	50	25	12.5	6.25	With TPC
	25	12.5	6.25	3.125	Without TPC

8.2 TEST PROCEDURES

EIRP Power= Conducted power + antenna gain.

8.3 TEST SETUP LAYOUT

Please refer to Section 8.4 of this test report.

8.4 TEST DEVIATION

There is no deviation with the original standard.

8.5 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

8.6 TEST RESULT

EUT :	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Pressure :	1012 hPa	Operation Mode:	Normal Voltage-802.11a/n/ac mode(5.2G&5.3G&5.6G)

Test data reference attachment

9 SPURIOUS EMISSIONS FOR RECEIVER

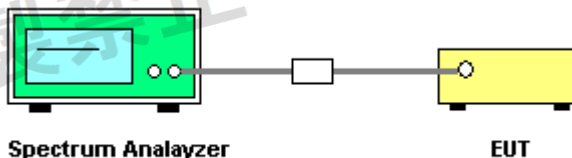
9.1 LIMIT

Item	Limits
Rx Spurious	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
Emission	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

9.2 TEST PROCEDURE

1. EUT have the continuous reception mode and fixed only one channelize.
2. SA set RBW:100KHz and VBW: 100KHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark average reading value + cable loss shall be less than 4nW.
3. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark average reading value + cable loss shall be less than 20nW.
4. If power level of lower emissions are more than 1/10 of limit ($.0.4\text{nW}$ for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

9.3 TEST SETUP LAYOUT



9.4 TEST DEVIATION

There is no deviation with the original standard.

9.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously reception mode.

9.6 TEST RESULT

EUT :	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Pressure :	1012 hPa	Operation Mode:	Normal Voltage-a/n/ac mode(5.2G&5.3G&5.6G)

Test data reference attachment

10 BURST LENGTH**10.1 LIMITS OF BURST LENGTH**

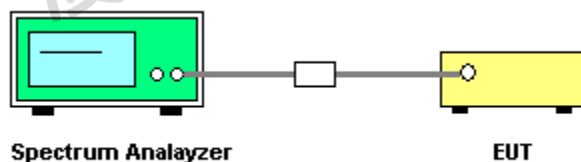
Item	Limits
Transmission Burst	≤8ms

10.2 MEASURING INSTRUMENTS

See list of measuring instruments of this test report.

10.3 TEST PROCEDURES

- Setting of SA is following as: RBW: 8MHz/VBW:8MHz /Sweep Mode:Single sweep/Detect mode: Positive peak/Zero Span I Sweet time: more than burst length.
- Measure the maximum time duration of one burst length.

10.4 TEST SETUP**10.5 TEST DEVIATION**

There is no deviation with the original standard.

10.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

10.7 TEST RESULT

EUT :	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Pressure :	1012 hPa	Operation Mode:	Normal Voltage-a/n/ac mode(5.2G&5.3G&5.6G)

Test data reference attachment

11 RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

11.1 LIMIT

Item	Limits
Identification code	≥ 48 bits

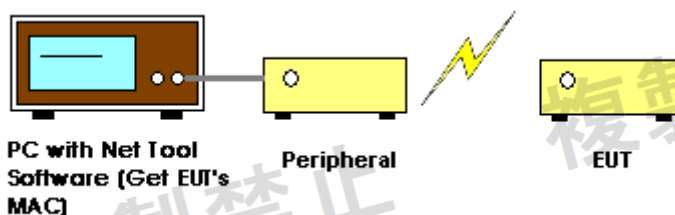
11.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

11.3 TEST PROCEDURES

- In the case that the EUT has the function of Automatically transmitting the identification code: a. Transmit the predetermined identification codes form EUT. b. Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification ocde: a. Transmit the predetermined identification codes form the counterpart. b . Check if communication is normal. c. Transmit the signals other than predetermined ID codes form the counterpart. d. check if the EUT stops the transmission, or if it displays that idnetification codes are different from the predetermined ones.

11.4 TEST SETUP LAYOUT



11.5 TEST DEVIATION

There is no deviation with the original standard.

11.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

11.7 TEST RESULT

EUT :	Tablet PC	Model:	M17T11
Temperature:	25°C	Tested by:	Kieron Luo
Humidity:	55 % RH	Pressure :	1012 hPa
Test result:	Compliance		

Radio interface prevention function

	Normal voltage	Low voltage	High voltage
Result	OK	N/A	N/A

Mac address: 18:C0:6D:8F:00:0F

Result: OK

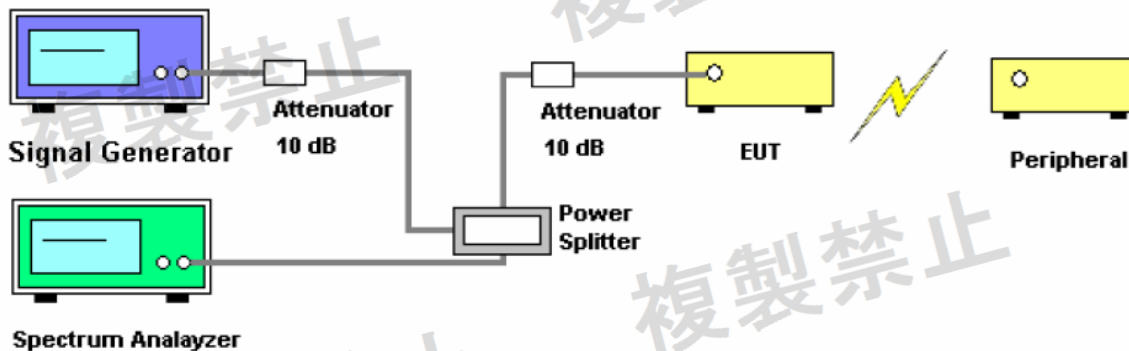
12 CARRIER SENSE CAPABILITY

12.1 LIMIT

EUT stop RF transmission signal after carrier inject to EUT

12.2 TEST PROCEDURE

Measurement System Diagram



1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is $(on\ 22.79+G-20*\log(f)\text{dBm})$ (G is the antenna gain, f is the test 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. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

12.3 TEST RESULT

Mode	Normal Voltage	High Voltage	Low Voltage
802.11a	OK	N/A	N/A
802.11n	OK	N/A	N/A
802.11ac	OK	N/A	N/A

$Pin=22.79+Gr-20*\log(freq_MHz)[\text{dBm}]$

Limit:100mw/m eirp

Confirmed at -50dBm

Result:OK

13 DYNAMIC FREQUENCY SELECTION (DFS)

13.1 Limit

DFS is required in the frequency ranges 5250MHz to 5350MHz, 5470MHz to 5725MHz. This requirement applies to all types of RLAN devices and to any type of communication between these devices.

13.1.1 Master equipment requirements

- (1) Before initiating a network on a channel, which has not been identified as an Available Channel, the master device shall perform a Channel Availability Check to ensure that there is no radar operating on the channel.
- (2) During normal operation, the master device shall monitor the Operating Channel (In-Service Monitoring) to ensure that there is no radar operating on the channel. When the master device has detected a radar signal during In-Service Monitoring, the Operating Channel is made unavailable. The master device shall instruct all its associated slave devices to stop transmitting on this (to become unavailable) channel.
- (3) The master device shall not resume any transmissions on this Unavailable Channel during a period of time after a radar signal was detected. This period is referred as the Non-Occupancy Period.

13.1.2 Slave device requirements

Not Applicable.

13.1.3 DFS requirement

Requirement	Master	Slave
Channel Availability Check Time	V	X
Channel Move Time	V	V
Channel Closing Transmission Time	V	V
Non-Occupancy Period	V	X

13.1.4 DFS requirement values

Parameter	Value
Channel Availability Check Time	$\geq 60s$
Channel Move Time	$< 10s$
Channel Closing Transmission Time	$< 260ms$
Non-Occupancy Period	$\geq 30 \text{ min}$

13.2 Setting

The following table is the setting of the spectrum analyzer, data generator and signal generator.

Spectrum Parameter	Setting
Attenuation	10 dB
Span Frequency	0 MHz
RBW	1 MHz
VBW	3 MHz
Sweep Time	More than DFS requirement values

Radar Signal Parameter (Data Generator)

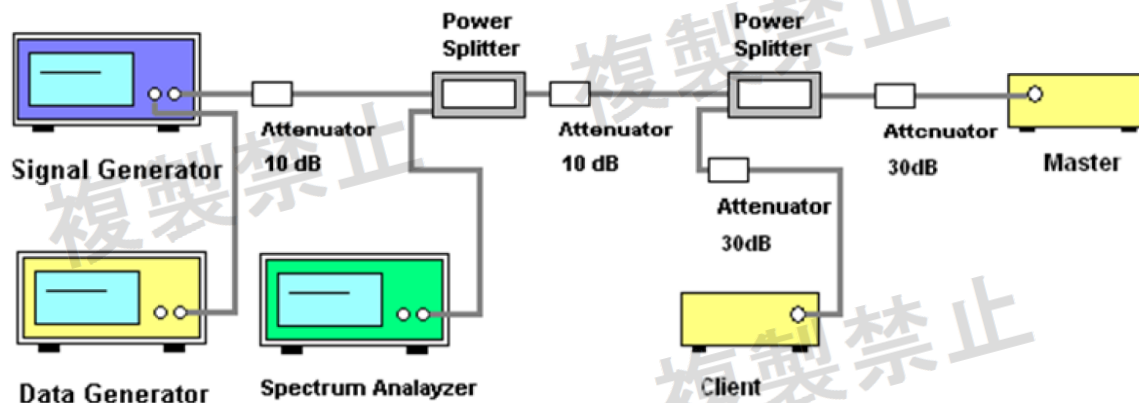
Radar type	Pulse Repetition Frequency (Hz)	Pulse Width (usec.)	Number of Pulses	Radar Detection Probability
DFS-J2-1(W53)	1000	5	10	60% or more
DFS-J2-2(W53)	1600	15	15	60% or more
DFS-J2-1(W56)	720	0.5	18	60% or more
DFS-J2-2(W56)	250	2.0	18	60% or more
DFS-US-1(W56)	700	1.0	18	60% or more
DFS-US-2(W56)	4347-6667	1.0-5.0	23-29	60% or more
DFS-US-3(W56)	2000-5000	6.0-10	16-18	60% or more
DFS-US-4(W56)	2000-5000	11-20	12-16	60% or more
DFS-US-5	500-1000	50-100	1-3	80% or more
DFS-US-6	3000	1	9	70% or more
Aggregate (6 Radar Types) must be:				80% or more

Signal Generator Parameter	Setting
Pulse	External Trigger
ALC	Off
Power Level	Interference Detection Threshold + G [dBi]

13.3 Test procedure

MIC public notice 88:2004, annex 45.

13.4 Test setup



Wireless AP	Manufacturer:	LINKSYS LLC
	Model No:	WRT32X

13.5 Radar test result

Test data reference attachment

END OF REPORT