



TEST REPORT FOR WLAN TESTING

Report No.: SRTC2024-9004(F)-24052102(G)

Product Name: Edge Computer

Product Model: EC954-FQ38

Brand Name: inhand

Applicant: Beijing InHand Networks Technology Co., Ltd.

Manufacturer: Beijing InHand Networks Technology Co., Ltd.

Specification: FCC Part 15 Subpart E (2023)

ANSI C63.10 (2013)

FCC ID: 2AANY-EC954FQ38

The State Radio_monitoring_center Testing Center (SRTC)

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1. GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC). The test results relate only to individual items of the samples which have been tested. The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Test Site 1:	15th Building, No.30 Shixing Street, Shijingshan District
Test Site 2:	No.80, Zhaojiachang, Beizang, Daxing District
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Country or Region:	P.R.China
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Designation Number:	CN1267
Registration number:	239125

1.3 Applicant's details

Company:	Beijing InHand Networks Technology Co., Ltd.		
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang		
Address.	district, Beijing		
City:	Beijing		
Country or Region:	China		
Contacted person:	GuJichi		
Tel:	15281366255		
Email:	gujc@inhand.com.cn		

1.4 Manufacturer's details

Company:	Beijing InHand Networks Technology Co., Ltd.		
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang		
Address.	district, Beijing		
City:	Beijing		
Country or Region:	China		
Contacted person:	GuJichi		
Tel:	15281366255		
Email:	gujc@inhand.com.cn		



1.5 Test Environment

Date of Receipt of test sample at SRTC:	2024/5/23		
Testing Start Date:	2024/5/24		
Testing End Date:	2024/7/5		
Environmental Data:	Temperature (°C)	Humidity (%)	
Ambient	25 40		
Maximum Extreme	75		
Minimum Extreme	-30		
		-	
Normal Supply Voltage (V d.c.):	12		
Maximum Extreme Supply Voltage (V d.c.):	48		
Minimum Extreme Supply Voltage (V d.c.):	12		

2. DESCRIPTION OF THE DEVICE UNDER TEST

2.1Final Equipment Build Status

Frequency Band(s):	U-NII-1:5150MHz-5250MHz U-NII-3:5725MHz-5850MHz		
Modulation Type:	802.11a 802.11n (HT20/HT40) 802.11ac (VHT20/VHT40/VHT80)		
Antenna Type:	Sucker antenna		
Antenna gain	For Power/PSD: ANT0:0.21dBi(max) ANT1:0.21dBi(max)		
Directional Gain:	For Power/PSD:0.21dBi(Uncorrelated)		
Beamforming Directional Gain:	N/A		
Power Supply:	DC supply		
Software Revision:	N/A		
Hardware Revision:	N/A		
IMEI:	N/A		

NOTE1: Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + ... + 10^{G_N/10} / N_{ANT}] dBi(Uncorrelated)$



2.2Wireless Technology and Frequency Range

Wireless Technology		Bandwidth	Channel	Frequency(MHz)
		000411-	36	5180
			40	5200
		20MHz	44	5220
	U-NII-1		48	5240
		40141-	38	5190
		40MHz	46	5230
Wi-Fi		80MHz	42	5210
	U-NII-3	20MHz	149	5745
			153	5765
			157	5785
			161	5805
			165	5825
		40MHz	151	5755
			159	5795
		80MHz	155	5775

2.3 Support Equipment

The following support equipment was used to exercise the DUT during testing: N/A

2.4 Note

Automatically Discontinue Transmission				
DescriptionThe device shall automatically discontinue transmission in case of absence of information to transmit or operational failure. provisions are not intended to preclude the transmission of com signaling information or the use of repetitive codes used by certain technologies to complete frame or burst intervals. Applicants include in their application for equipment authorization to describe this requirement is met.				
Result	While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.			

Antenna requirement (FCC Part 15.203)

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

•The antenna(s) of the EUT are permanently attached.

•There are no provisions for connection to an external antenna.

Note: The antenna provides to the EUT, please refer to the following table:



Brand	Model	Antenna gain	Frequency Bands	Antenna type	Con nect er Typ e
N/A	N/A	ANT0: 0.21dBi(max) ANT1: 0.21dBi(max)	5150MHz-5250MHz 5725MHz-5850MHz	Sucker antenna	RP- SM A

Note1: Manufacturers ensure that their designs will not be modified by the user or third party's arbitrary antenna parameters and performance. The EUT complies with the requirement of §15.203.

Note2: The antenna gain is provided by the customer and involved in the calculation and influence of the test results. Our laboratory takes the value declared by the customer as the criterion, and the customer is responsible for the antenna gain value. Manufacturers ensure that their designs will not be modified by the user or third party's arbitrary antenna parameters and performance.

NOTE3: Refer to section F of 662911 D01, Categorization as Correlated or Completely Uncorrelated:

Correlated signals include, but are not limited to, signals transmitted in any of the following modes:

- Any transmit beamforming mode, whether fixed or adaptive (e.g., phased array modes, closed loop MIMO modes, Transmitter Adaptive Antenna modes, Maximum Ratio Transmission (MRT) modes, and Statistical Eigen Beamforming (EBF) modes).
- Cyclic Delay Diversity (CDD) modes, also known as Cyclic Shift Diversity (CSD) (including
 modes for 802.11n and later devices to communicate with legacy 802.11 devices). In CDD
 modes, the same digital data is carried by each transmit antenna, but with different cyclic delays.
 The signals are highly correlated at any one frequency, though not necessarily at zero time delay.
 In particular, correlations tend to be high over the bandwidths specified for in-band PSD
 measurements in FCC rule parts that require reductions in PSD when directional gain exceeds a
 threshold.

Completely uncorrelated signals include those transmitted in the following modes, if they are not combined with any correlated modes, such as beamforming:

- Space Time Block Codes (STBC) or Space Time Codes (STC) for which different digital data is carried by each transmit antenna during any symbol period (*e.g.*, WiMAX Matrix A [Alamouti coding]).
- Spatial Multiplexing MIMO (SM-MIMO), for which independent data streams are sent to each transmit antenna (*e.g.*, WiMAX Matrix B). WiMAX Matrix C, which adds diversity, also produces uncorrelated transmit signals.

EUT is STBC MODE $_{\circ}\,$ the output signals are Uncorrelated $_{\circ}\,$ transmissions directional gain is calculated as:

a) For power, the directional gain calculation is following.

Directional gain = $10 \log[(10^{G1}/10 + 10^{G2}/10 + ... + 10^{GN}/10)^2/N_{ANT}] dBi$

b) For PSD, the directional gain calculation is following.

Directional gain = $10 \log[(10^{G1}/10 + 10^{G2}/10 + ... + 10^{GN}/10)^2/N_{ANT}] dBi$



3 REFERENCE SPECIFICATION

Specification	Version	Title	
FCC Part 15 Subpart E	2023	Unlicensed national information infrastructure devices	
ANSI C63.10	2013	Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	
KDB 644545 D03	August 14, 2014	Guidance for IEEE std 802.11actm devices emission testing	
KDB 905462 D03	August 22, 2016	U-NII client devices without radar detection capability	
KDB 905462 D02	April 8, 2016	Compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection	
KDB 662911 D01	October 31, 2013	Emissions testing of transmitters with multiple outputs in the same band	
KDB 789033 D02	December 14, 2017	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) devices part 15, subpart e	

<u>4 KEY TO NOTES AND RESULT CODES</u> The following are the definition of the test result.

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
NT	Normal Temperature
NV	Nominal voltage
HV	High voltage
LV	Low voltage



5. RESULT SUMMARY

No.	Test case	FCC reference	Verdict	Test Site
1.	26dB Bandwidth	N/A	Pass	1
2.	Maximum Conducted Output Power	15.407 (a.1.iv),(a.2), (a.3)	Pass	1
3.	Maximum Power Spectral Density	15.407 (a.1.iv),(a.2), (a.3)	Pass	1
4.	Automatically Discontinue Transmission	15.407(c)	Pass (See 2.4Note)	1
5.	Antenna Requirements	15.407(a) &15.203	Pass (See 2.4Note)	1
6.	DFS	15.407(h)	Pass	1

Test Site 1: 15th Building, No.30 Shixing Street, Shijingshan District

This Test Report Is Approved by: Mr. Peng Zhen	Review by: Mr. Li Bin
影板	(A THK)
Tested and Issued by:	Approved date:
Mr. LiangXisheng	
动力子	20240705



No.	Test case	FCC reference	Verdict	Test Site
7.	AC Power line Conducted Emission	15.207	Pass	2
8.	Unwanted Radiated Emission Measurement	15.205 15.209 15.35(b)	Pass	2

Test Site 2: No.80, Zhaojiachang, Beizang, Daxing District

This Test Report Is Approved by: Mr. Liu Wei	Review by: Mr. Guo Yu
Tested and Issued by: Mr. Dong Qifeng 董奇绎	Approved date: 20240705



6. TEST RESULT

6.1 26dB Bandwidth

6.1.1Test limit

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth. The 26dB bandwidth is used to determine the conducted power limits.

6.1.2 Test Procedure Used

ANSI C63.10-2013 – Section 12.4 KDB 789033 D02 v02r01 – Section C

6.1.3 Test Settings

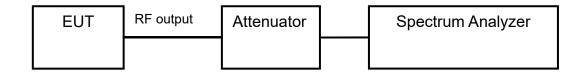
1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

2. RBW = approximately 1% of the emission bandwidth

- 3. VBW > 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold

6.1.4Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.1.5 Test result



6.2 6dB Bandwidth(Only for 5.725 - 5.850GHz band)

6.2.1Test limit

In the 5.725 – 5.850GHz band, the 6dB bandwidth must be \geq 500 kHz.

6.2.2 Test Procedure Used

ANSI C63.10-2013 – Section 6.9.2 KDB 789033 D02 v02r01 – Section C

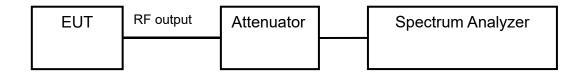
6.2.3 Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

- 2. RBW = 100 kHz
- 3. VBW > 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple

6.2.4Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.2.5 Test result



6.3 Maximum Conducted Output Power

6.3.1Test limit

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or $10 + 10 \log 10B$, dBm.

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) and 11 dBm + 10log10 (26dB BW). The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) and 11 dBm + 10log10 (26dB BW). The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.

6.3.2Test Procedure Used

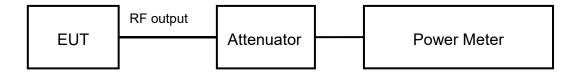
ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G KDB 789033 D02 v02r01 – Section E)3) b) Method PM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

6.3.3 Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

6.3.4 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.3.5 Test result



6.4 Maximum Power Spectral Density

6.4.1Test limit

In the 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

6.4.2 Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 KDB 789033 D02 v02r01 – Section F ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique.

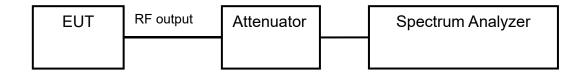
6.4.3 Test Settings

- 1. Analyzer was set to the center frequency of the UNII channel under investigation
- 2. Span was set to encompass the entire emission bandwidth of the signal
- 3. Set RBW = 100 kHz, VBW = 300KHz for the band 5.725-5.85 GHz
- 4. Set RBW = 1 MHz, VBW =3MHz for the band 5.150-5.250 GHz, 5.250-5.350 GHz and 5.470-5.725 GHz
- 5. Number of sweep points > 2 x (span/RBW)
- 6. Sweep time = auto
- 7. Detector = power averaging (RMS)
- 8. Trigger was set to free run for all modes
- 9. Trace was averaged over 100 sweeps

10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

6.4.4Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.4.5 Test result



6.5 Unwanted Radiated Emission Measurement

6.5.1Test Description

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

6.5.2 Test limit

FCC Part15.205, 15.209,

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in below Table per Section 15.209. The spectrum shall be investigated from the lowest radio frequency signal generated in the device

Frequency [MHz]	Field strength	Measured Distance
	[µV/m]	[meters]
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

FCC Part15.35(b):

Radiated Limits

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit

Used conversion factor: Limit ($dB\mu V/m$) = 20 log (Limit ($\mu V/m$)/1 $\mu V/m$)

Frequency [MHz]	Detector	Unit (dBµV/m)
30~88	Quasi-peak	40.0
88~216	Quasi-peak	43.5
216~960	Quasi-peak	46.0
960~1000	Quasi-peak	54.0
1000 \sim 5th harmonic of the highest frequency or	Average	54.0
40GHz, whichever is lower	Peak	74.0

Conversion Radiated limits

Unwanted Emissions above 1 GHz

a) For an indoor access point or subordinate, all emissions at or above 5.895 GHz shall not exceed an EIRP of 15 dBm/MHz and shall decrease linearly to an EIRP of -7 dBm/MHz at or above 5.925 GHz.

b) For a client device or an outdoor access point, all emissions at or above 5.895 GHz shall not exceed an EIRP of -5 dBm/MHz and shall decrease linearly to an EIRP of -27 dBm/MHz at or above 5.925 GHz.



c) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an EIRP of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

6.5.3Test Procedure Used

KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Both X and Y axes of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and recorded the reading with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer complied the following setting:

Frequency	RBW
9-150kHz	200-300Hz
0.15-30MHz	9-10kHz

Signals below 30MHz are not recorded in the report because they are lower than the limits by more than 20dB.

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for $30MHz \sim 1GHz$) / 1.5 meters (for above 1GHz) above the ground in chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and recorded the reading with Maximum Hold Mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detector and recorded the reading with Maximum Hold Mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.



For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.

3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Average detection (AV) at frequency above 1GHz. If duty cycle of test signal is < 98%, the duty factor need added to measured value.

4. All modes of operation were investigated and the worst-case emissions are reported.

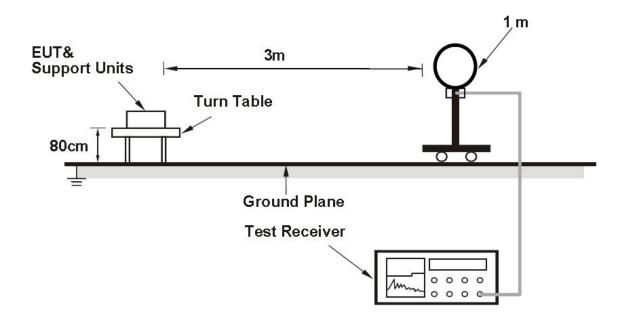
6.5.4Test Settings

Frequency	Detector
<1000MHz	Quasi-peak
>1000MHz	Peak and average

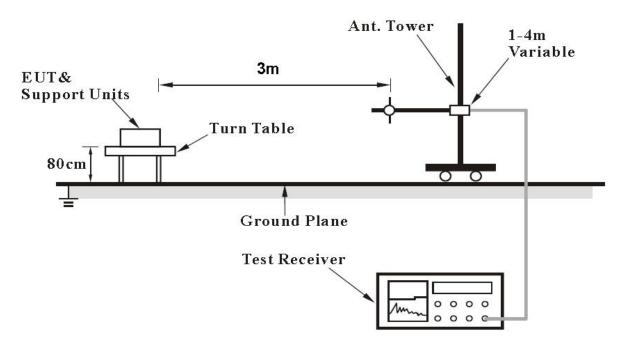
Frequency	RBW
9-150kHz	200-300Hz
0.15-30MHz	9-10kHz
30-1000MHz	100-120kHz
>1000MHz	1MHz



6.5.5 Radiated emission below 30MHz

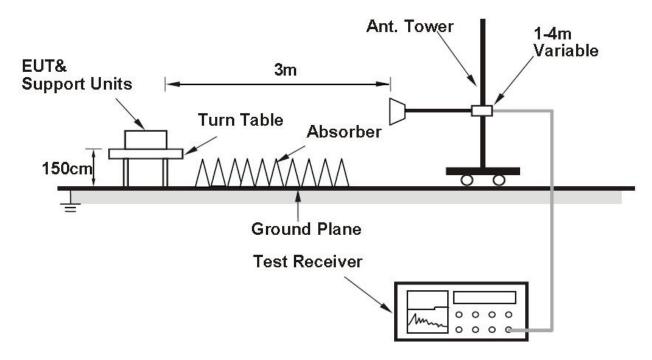


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



6.5.6 Test result



6.6 AC Power line Conducted Emission

6.6.1 Test limit

FCC Part 15.207(a	a),	
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Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

The measurement is made according to ANSI C63.10-2013

6.6.2 Test result

The test results are shown in Appendix B.

6.7 Dynamic Frequency Selection

6.7.1 Test limit

FCC Part 15.407(h) and FCC 06-96 APPENDIX "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVCIES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION".



6.7.2 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master Device or Client with Radar Detection	Client Without Radar Detection	
DFS Detection Threshold	Yes	Not required	
Channel Closing Transmission Time	Yes	Yes	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection	
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required	
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link	
All other tests	Any single BW mode	Not required	
Note: Frequencies selected for statistical perf frequencies within the radar detection detection bandwidth. For 802.11 dev bonded 20 MHz channels and the cha	bandwidth and frequencies near th ices it is suggested to select frequen	e edge of the radar	



Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
$EIRP \ge 200 \text{ milliwatt}$	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 d. Note 2: Throughout these test procedures an additional 1 dB has be test transmission waveforms to account for variations in measurem the test signal is at or above the detection threshold level to trigger	een added to the amplitude of the ent equipment. This will ensure that

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U- NII 99% transmission power bandwidth. See Note 3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\frac{\operatorname{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \\ \\ \begin{pmatrix} 19 \cdot 10^6 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aconocato	(Radar Types 1-	4)		80%	120

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per <i>Burst</i>	Number of <i>Bursts</i>	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000- 2000	1-3	8-20	80%	30

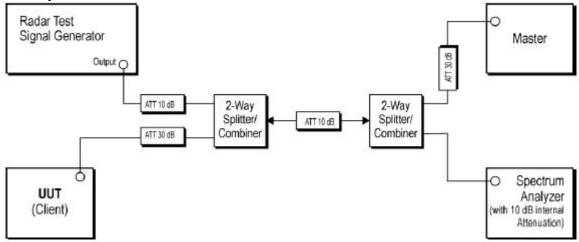
Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

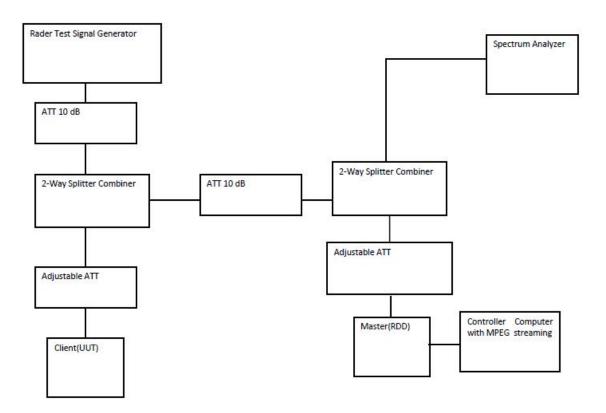


6.7.3 TEST AND MEASUREMENT SYSTEM

Principle



Setup for Client with injection at the Master





Client Devices

- a) A Client Device will not transmit before having received appropriate control signals from a Master Device.
- b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.
- c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.
- d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.
- e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

Test Setup Operation

System testing was performed with the designated MPEG-4

(1080P,WEBRip,DD5.1.x264-btbta) test file that streams full motion video from the Access Point to the Client in full motion video mode using the media player with the V2.61 Codec package.

This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the device.

The waveform parameters from within the bounds of the signal type are selected randomly using uniform distribution.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.



6.7.4 Test Procedure Used

(i) Operational Modes. The DFS requirement applies to the following operational modes:(A) The requirement for channel availability check time applies in the master operational mode.

(B) The requirement for channel move time applies in both the master and slave operational modes.

(ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

(iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

(iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

6.7.5 Test result



7. MEASUREMENT UNCERTAINTIES

Items	Uncertainty		
6dB Bandwidth	3kHz		
Peak power output	0.67dB		
Transmitter Power Spectral Density	0.75dB		
Band edge compliance	1.20dB		
	30 MHz \sim 1GHz	2.83dB	
Conducted Out of band emission measurement	1GHz \sim 12.75GHz	2.50dB	
medsurement	12.75GHz \sim 25GHz	2.75dB	
	30 MHz \sim 200 MHz	4.88dB	
Spurious Radiated Emissions	200MHz \sim 1GHz	4.87dB	
	1GHz \sim 18GHz	4.58dB	
	18GHz~40GHz	4.35dB	
AC Power line Conducted Emission	3.92	2dB	



8. TEST EQUIPMENTS

No.	Name/ Model	Manufacturer	S/N	Cal date	Cal Due date
1.	Spectrum Analyzer / FSV	ROHDE & SCHWARZ	101065	2024.06.21	2025.06.20
2.	Signal Analyzer / N9020A	Agilent	MY48010771	2024.03.06	2025.03.05
3.	Bluetooth Test Set / MT8852B	Anritsu	1329003	2024.06.21	2025.06.20
4.	Power Divider / 11667A	HP	19632	2024.06.21	2025.06.20
5.	Signal Generator / SMBV100A	R&S	260910	2024.06.21	2025.06.20
6.	Temperature chamber / SH241	ESPEC	92013758	2024.06.21	2025.06.20
7.	Fully-Anechoic Chamber / 12.65m×8.03m×7.50m	FRANKONIA			
8.	Semi-Anechoic/Chamber / 23.18m×16.88m×9.60m	FRANKONIA			
9.	Turn table Diameter:1m	FRANKONIA			
10.	Turn table Diameter:5m	FRANKONIA			
11.	Antenna master FAC(MA4.0)	MATURO			
12.	Antenna master SAC(MA4.0)	MATURO			
13.	Shielding room / 9.080m×5.255m×3.525m	FRANKONIA			
14.	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100512	2024.06.21	2025.06.20
15.	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100513	2024.06.21	2025.06.20
16.	Ultra log antenna / HL562	R&S	100016	2024.06.21	2025.06.20
17.	Receive antenna /3160-09	SCHWARZ-BECK	002058-002	2024.06.21	2025.06.20
18.	EMI test receiver	R&S	101574	2024.06.21	2025.06.20
19.	ESR3 EMI test receiver	R&S	102361	2024.03.06	2025.03.05
20.	Receive antenna / HL562	R&S	100167	2024.06.21	2025.06.20
21.	ENV216 AMN	R&S	101881	2024.06.21	2025.06.20
22.	WLAN AP WIA3300-20 (FCC ID: 2AHKT-WIA3300-20)	SKSpruce	8152017060700339		
23.	Notebook E470c	Lenovo	PF10UZW7		
24.	Horn antenna / SAS-574	A.H.SYSTEMS	2581	2024.03.06	2025.03.05
25.	Loop antenna / HFH2-Z2	R&S	100340	2023.08.21	2024.08.20
26.	VULB 9163 Ultra log test antenna	SCHWARZ-BECK	867	2024.05.29	2026.05.28
27.	Loop Antenna	R&S	100340	2023.08.21	2024.08.20
28.	Double Ridge Waveguide Horn Antenna	A.H.SYSTEMS	2581	2024.03.06	2025.03.05
29.	FCC auto test system / RT9200BW-2	Radiosky	V2.05	/	/
30.	EMI test software / EMC32	R&S	V10.20.01	/	/
31.	Power Meter E4416A	Agilent	MY52370013	2024.03.06	2025.03.05
32.	Power Sensor E9323A	Agilent	MY52150008	2024.03.06	2025.03.05



APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Please refer to the attachment.

APPENDIX B – TEST DATA OF RADIATED EMISSION

Please refer to the attachment.