FCC RF Test Report

APPLICANT : Assured Wireless Corporation

EQUIPMENT: Cellular Wi-Fi Router

BRAND NAME : Assured Wireless

MODEL NAME : AW12Fi

FCC ID : 2A7ABAW12FI

STANDARD : 47 CFR Part 2, 27(D)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

TEST DATE(S) : Dec. 08, 2022

This product installed a RF module (Brand Name: Assured Wireless, Model Name: AW12-HP, FCC ID: 2AUZ8AW12HP) during the test, only EIRP and RSE test items are tested in this report, all the other test results are leveraged from module RF report.

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FG292702D

Sporton International Inc. (ShenZhen)

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People's Republic of China

Sporton International Inc. (ShenZhen)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE			
FG292702D	Rev. 01	Initial issue of report	Dec. 26, 2022			

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	§2.1046	Conducted Output Power		Report Only	1
-	-	Peak-to-Average Ratio	_	Report Only	1
3.1	§27.50 (a)(3)	EIRP	EIRP < 250mW/5MHz	PASS	-
-	§2.1049	Occupied Bandwidth	_	Report Only	1
-	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	1
-	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	1
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	1
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	Under limit 15.31 dB at 9222.00 MHz

Remark 1:

The conducted test items were leveraged from module RF report which can refer to Report No. FG9N0606D.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Applicant

Assured Wireless Corporation

16885 W. Bernardo Dr., Suite 300, San Diego, CA 92127

1.2 Manufacturer

Assured Wireless Corporation

16885 W. Bernardo Dr., Suite 300, San Diego, CA 92127

1.3 Product Feature of Equipment Under Test

Product Feature								
Equipment	Cellular Wi-Fi Router							
Brand Name	Assured Wireless							
Model Name	AW12Fi							
FCC ID	2A7ABAW12FI							
HW Version	P2							
SW Version	CPEWT_AW12Fi_v1.0.8							
EUT Stage	Identical Prototype							

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1.4 Product Specification of Equipment Under Test

Product Feature								
Tx Frequency	LTE Band 30 : 2305 MHz ~ 2315 MHz							
Rx Frequency	LTE Band 30 : 2350 MHz ~ 2360 MHz							
Bandwidth	5MHz / 10MHz							
Maximum Output Power to Antenna	LTE Band 30 : 22.50 dBm							
Antenna Gain	LTE Band 30 : 0.5 dBi							
Type of Modulation	QPSK / 16QAM / 64QAM							

Remark: Verify that the power is less than the module power, so the module power is used when calculating EIRP in this report.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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1.6 Maximum EIRP and Emission Designator

Ľ	TE Band 30	QP	SK	16QAM/64QAM			
BW (MHz)	Frequency Range (MHz)	Maximum Emission Designator (99%OBW)		Maximum EIRP(W)	Emission Designator (99%OBW)		
5	2307.5 ~ 2312.5	0.1995	4M51G7D	0.1722	4M52W7D		
10	2310.0	0.1982	9M03G7D	0.1698	9M05W7D		

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Note:

- 1. The EIRP details refer to Appendix A.
- 2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)									
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398									
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.							
	03CH03-SZ	CN1256	421272							

1.8 Test Software

ltem	Site	Manufacturer	Name	Version	
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24	

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1.9 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, Part 27(D)
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

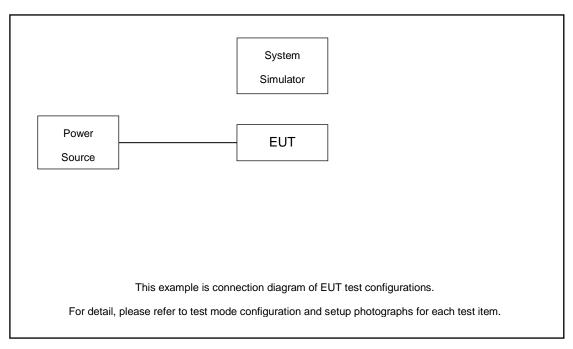
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted	Band	Bandwidth (MHz)						Modulation			RB#			Test Channel		
Test Cases	Бапо	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
E.I.R.P	20	-	1	٧		-	•	V	V	V	٧			٧	٧	V
E.I.K.P	30	-	1		٧	-	•	V	V	V	٧				٧	
Radiated																
Spurious	30	-	-		V			V			٧				v	
Emission																
	1. T	he ma	rk "v '	' mea	ns tha	t this	config	uration i	s choser	n for testi	ng					
	2. T	he ma	rk "-"	mean	s that	this b	andwi	dth is no	ot suppor	rted.						
Note	eı	missio	n test	unde	r diffe	rent R	B size			f fundam ulations i						

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A

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2.4 Frequency List of Low/Middle/High Channels

	LTE Band 30 Channel and Frequency List											
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest								
10	Channel	-	27710	-								
10	Frequency	-	2310	-								
E	Channel	27685	27710	27735								
5	Frequency	2307.5	2310	2312.5								

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3 Conducted Test Items

3.1 EIRP

3.1.1 Description of EIRP

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

3.1.2 Test Procedures

- 1. According to KDB 412172 D01 Power Approach,
- 2. EIRP = P_T + G_T L_C , ERP = EIRP -2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.1.3 Test Result

Please refer to Appendix A.

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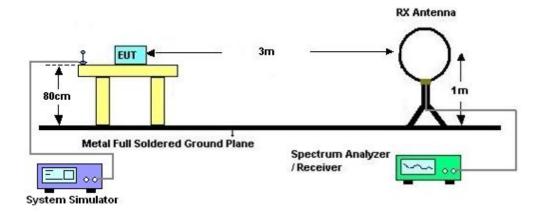
4 Radiated Test Items

4.1 Measuring Instruments

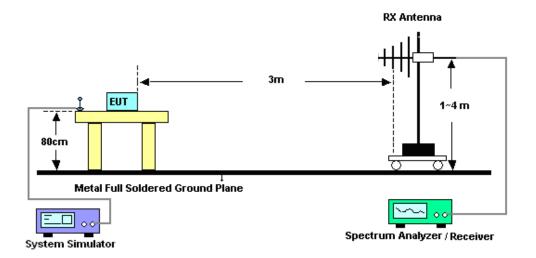
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test below 30MHz



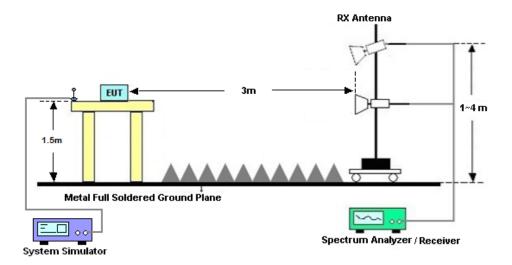
4.2.2 For radiated test from 30MHz to 1GHz



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4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

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4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E.

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The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

```
EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain 
 <math>ERP (dBm) = EIRP - 2.15
```

 The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)

- = P(W)- [70 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [70 + 10\log(P)] (dB)$
- = -40dBm.

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5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 06, 2022	Dec. 08, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Dec. 08, 2022	Jun. 27, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 06, 2022	Dec. 08, 2022	Apr. 05, 2023	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 09, 2021	Dec. 08, 2022	Aug. 08, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2022	Dec. 08, 2022	Apr. 07, 2023	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Dec. 08, 2022	Oct. 18, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 06, 2022	Dec. 08, 2022	Jul. 05, 2023	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Dec. 08, 2022	Apr. 09, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2021	Dec. 08, 2022	Dec. 26, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Nov. 10, 2022	Dec. 08, 2022	Nov. 09, 2023	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 08, 2022	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 08, 2022	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3.0dB
Confidence of 95% (U = 2Uc(y))	3.0dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.6dB
Confidence of 95% (U = 2Uc(y))	3.500

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3.8dB
Confidence of 95% (U = 2Uc(y))	3.0UB

----- THE END -----

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Appendix A. Test Results of Conducted Test



LTE Band 30 (GT - LC = 0.5 dB) QPSK (dBm/5MHz)						
Bandwidth		5M				
Channel	27685	27710	27735			
Channel	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.3	2310				
Conducted Power (dBm)	22.41	22.50	22.45			
Conducted Power (Watts)	0.1742	0.1778	0.1758			
EIRP(dBm)	22.91	23.00	22.95			
EIRP(Watts)	0.1954 0.1995		0.1972			
Limit	250mW / 5MHz = 24dBm / 5MHz PASS					

LTE Band 30 (GT - LC = 0.5 dB) QPSK (dBm/5MHz)						
Bandwidth		10M				
Channel		27710				
Channel		(Mid)				
Frequency		2310				
(MHz)		2310				
Conducted Power (dBm)		22.47				
Conducted Power (Watts)		0.1766				
EIRP(dBm)		22.97				
EIRP(Watts)		0.1982				
Limit	250mW / 5MHz = 24dBm / 5MHz PASS					

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LTE Band 30 (GT - LC = 0.5 dB) 16QAM (dBm/5MHz)					
Bandwidth	5M				
Channel	27685	27710	27735		
Chamiei	(Low)	(Mid)	(High)		
Frequency	2307.5	2310	2312.5		
(MHz)	2307.5	2310	2312.5		
Conducted Power (dBm)	21.71	21.86	21.71		
Conducted Power (Watts)	0.1483	0.1535	0.1483		
EIRP(dBm)	22.21	22.36	22.21		
EIRP(Watts)	0.1663 0.1722		0.1663		
Limit	250mW / 5MHz = 24dBm / 5MHz PASS				

LTE Band 30 (GT - LC = 0.5 dB) 16QAM (dBm/5MHz)						
Bandwidth		10M				
Channel		27710				
Chame		(Mid)				
Frequency		2310				
(MHz)		2310				
Conducted Power (dBm)		21.80				
Conducted Power (Watts)		0.1514				
EIRP(dBm)		22.30				
EIRP(Watts)		0.1698				
Limit	250mW / 5MHz = 24dBm / 5MHz PASS					

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LTE Band 30 (GT - LC = 0.5 dB) 64QAM (dBm/5MHz)						
Bandwidth		5M				
Channel	27685	27710	27735			
Chamie	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2242.5			
(MHz)	2307.5	2310	2312.5			
Conducted Power (dBm)	20.71	20.69	20.68			
Conducted Power (Watts)	0.1178	0.1172	0.1169			
EIRP(dBm)	21.21	21.19	21.18			
EIRP(Watts)	0.1321 0.1315		0.1312			
Limit	250mW / 5MHz = 24dBm / 5MHz PASS					

LTE Band 30 (GT - LC = 0.5 dB) 64QAM (dBm/5MHz)						
Bandwidth		10M				
Channel		27710				
Channel		(Mid)				
Frequency		2310				
(MHz)		2310				
Conducted Power (dBm)		20.69				
Conducted Power (Watts)		0.1172				
EIRP(dBm)		22.01				
EIRP(Watts)		0.1315				
Limit	250mW / 5MHz :	PASS				

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :		Temperature :	22~25°C
	HuaCong Liang	Relative Humidity :	48~52%

	LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	4611.50	-61.91	-40	-21.91	-58.85	-68.16	6.45	12.70	Н
	6916.50	-62.86	-40	-22.86	-62.79	-66.26	8.40	11.80	Η
Middle	9222.00	-55.31	-40	-15.31	-64.10	-57.66	9.65	12.00	Η
Middle	4611.50	-56.84	-40	-16.84	-53.63	-63.09	6.45	12.70	V
	6916.50	-62.93	-40	-22.93	-62.82	-66.33	8.40	11.80	V
	9222.00	-55.76	-40	-15.76	-64.13	-58.11	9.65	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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