

FCC Test Report

Report No.: AGC00408230403FE10

FCC ID : 2A3DR-PADP1

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Smart tablet

BRAND NAME : AGM

MODEL NAME : AGM_PAD_P1

APPLICANT: AGM MOBILE LIMITED

DATE OF ISSUE : Jun. 01, 2023

STANDARD(S) : FCC Part 15.407 **TEST PROCEDURE(S)** : KDB 905462 D02

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 01, 2023	Valid	Initial Release

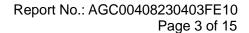




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1. VERIFICATION OF CONFORMITY

A 11 /	ACMANDRIE LIMITER
Applicant	AGM MOBILE LIMITED
Address FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG (TUEN MUN NT HONG KONG,CHINA	
Manufacturer	SHENZHEN AIJIEMO SCIENCE AND TECHNOLOGY CO.,LTD
Address	1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen, China
Factory	SHENZHEN AIJIEMO SCIENCE AND TECHNOLOGY CO.,LTD
Address 1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technol Park, Nanchang Community, Xixiang, Baoan District, Shenzhen, China	
Product Designation	Smart tablet
Brand Name	AGM
Test Model	AGM_PAD_P1
Date of receipt of test item	Apr. 26, 2023
Date of test	Apr. 26, 2023~Jun. 01, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB 905462 D02.

Prepared By	Bibo zhang		
	Bibo Zhang (Project Engineer)	Jun. 01, 2023	
Reviewed By	Calin Lin		
	Calvin Liu (Reviewer)	Jun. 01, 2023	
Approved By	Max 2h	ang	
-	Max Zhang Authorized Officer	Jun. 01, 2023	



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2. GENERAL INFORMATION

The EUT is designed as "Smart tablet". It is designed by way of utilizing the OFDM technology to achieve the system operation.

Equipment Type	☐ Outdoor access points ☐ Indoor access points				
Equipment Type	☐ Fixed P2P access points ☐ Client devices				
Operation Frequency	☑ U-NII 1:5150MHz~5250MHz ☑ U-NII 2A: 5250MHz~5350MHz				
Operation Frequency	□ U-NII 2C:5470MHz~5725MHz □ U-NII 3: 5725MHz~5850MHz				
DFS Design Type	☐ Master ☐ Slave with radar detection ☐ Slave without radar detection				
TPC Function	☐ Yes				
	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz,				
	5500~5720MHz, 5745~5825MHz				
Test Frequency Range	For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz,				
	5510~5710MHz, 5755~5795MHz				
	For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5690MHz, 5775MHz				
	IEEE 802.11a(HT20):10.36dBm; IEEE 802.11n(HT20):10.18dBm;				
Output Power	IEEE802.11n(HT40):10.37dBm; IEEE 802.11ac(VHT20):10.11dBm;				
	IEEE802.11ac(VHT40):10.44dBm; IEEE802.11ac(VHT80):10.79dBm;				
Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM				
Modulation	802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM				
	802.11a:6/9/12/18/24/36/48/54Mbps;				
Data Rate	802.11n:up to 300Mbps;				
	802.11ac:up to 866.6Mbps;				
	7 channels of U-NII-1 Band				
Number of channels	7 channels of U-NII-2A Band				
Number of chamicis	12 channels of U-NII-2C Band				
	8 channels of U-NII-3 Band				
Hardware Version	V1.00				
Software Version	N2060.6.01.00.00				
Antenna Designation	PIFA antenna (Comply with requirements of the FCC part 15.203)				
Antenna Gain	1.0dBi				
Power Supply	DC 3.8V by battery				



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Note:

- 1. This device does not support radar monitoring.
- 2. The signal loading method between the client device and the Master device is TCP technology.
- 3. Distribution of start-up time of Master device and client device:

Equipment	Boot time(s)
Passive device(client)	10s
Active device(master)	40s



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3. DESCRIPTION OF TEST MODES

The tests in this section are run sequentially and the UUT must pass all tests successfully.

If the UUT fails any one of the tests it will count as a failure of compliance.

To show compliance, all tests must be performed with waveforms randomly generated as specified with test results meeting the required percentage of successful detection criteria.

One frequency will be chosen from the operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.

4. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407(h)(2)	Dynamic Frequency Selection Channel Move Time and Channel Closing Transmission Time	Compliant

5. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd	
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China	
Designation Number	CN1259	
FCC Test Firm Registration Number	975832	
A2LA Cert. No.	5054.02	
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA	

Description	Manufacturer	Model No.	S/N	Calibration Due.	Calibration Due.
MXG X-Series Vector Signal Generator	Agilent	N5182B	MY53050647	Mar. 03, 2023	Mar. 02, 2024
EXA Signal Analyzer	Agilent	N9020A	MY49100060	Jun. 01, 2023	May 31, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Power spliter	Mini-Circuits	ZFRSC-183-s	3122	N/A	N/A
RF Cable	Harbour	SHWCB-3000-N	N/A	Mar. 22, 2023	Mar. 21, 2025
DFS waveform Generator software	Keysight	N7607C V2.0.0.0	N/A	N/A	N/A
DFS data Analyzer software	Tonscend	JS1120-2	N/A	N/A	N/A
AP(Master)	ZTE	ZXHN F670	N/A	N/A	N/A

FCC ID of AP(Master): Q78-ZXHNF670E



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6. DYNAMIC FREQUENCY SELECTION (DFS)

6.1. APPLICABILITY OF DFS REQUIREMENTS

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

	Operational Mode			
Requirement	☐ Master	⊠Client Without Radar	☐Client With Radar	
		Detection	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

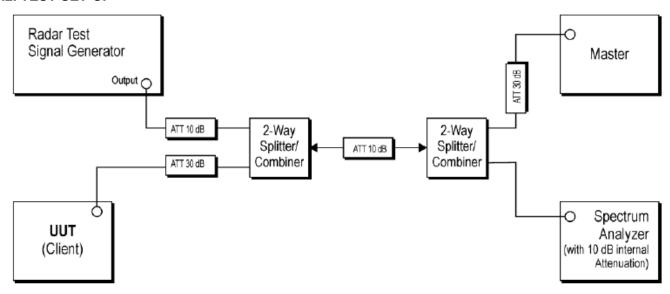
	Operational Mode			
Requirement	☐Master Device or Client with	⊠Client Without Radar		
	Radar Detection	Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Additional requirements for devices	☐Master Device or Client with	⊠Client Without Radar
with multiple bandwidth modes	Radar Detection	Detection
U-NII Detection Bandwidth and	All BW modes must be tested	Not required
Statistical Performance Check		
Channel Move Time and Channel	Test using widest BW mode	Test using the widest BW mode
Closing Transmission Time	available	available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.



6.2. TEST SET-UP



6.3. LIMITS

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 ≥ 200 milliwatt	-64 dBm		
EIRP < 200 milliwatt and	00 dD		
power spectral density < 10 dBm/MHz	-62 dBm		
EIRP < 200 milliwatt that do not meet the power	C4 dDm		
spectral density requirement	-64 dBm		

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

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



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Table 4: DFS Response Requirement Values

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



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6.4. RADAR TEST WAVEFORMS

Table 5 -	Short	Pulco	Radar	Tost W	Vaveforms
rable 5 –	SHOLL	ruise	rxauar	I est v	v a verorins

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
Туре	(µsec)	(µsec)		Percentage of	Number of
				Successful	Trials
				Detection	
0	1	1428	18	See Note 1	See Note 1

6.5. TEST PROCEDURE

- 1. When a Client Device without Radar Detection is the UUT, the Master Device is the Radar Detection Device.
- 2. A spectrum analyzer is used to establish the test signal level for each radar type.
- 3. During this process, there are no transmissions by either the Master Device or Client Device.
- 4. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) are set to at least 3 MHz.
- 5. The measured channels are 5530MHz in 80MHz Bandwidth and 5290MHz in 80MHz Bandwidth. The Radar signal was the same as transmitted channels, and injected into the antenna port of AP(master) ,measured the DFS parameters. The master transmitted the test data to client, the transmitted duty cycle is 30.8%.

6.6. TEST RESULT

6.6.1 DFS DETECTION THRESHOLD

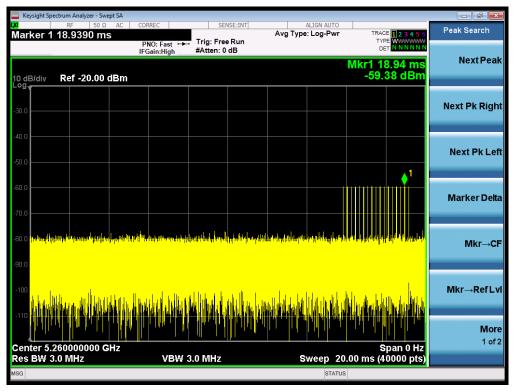
Calibration:

For a detection threshold level of -64dBm and the antenna gain is 1dBi, required detection threshold is -63dBm (= -64+1).

Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm.



Radar Type 0



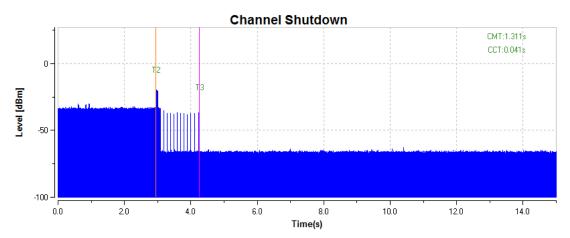
6.6.2TEST RESULT

Channel Move Time and Channel Closing Transmission Time

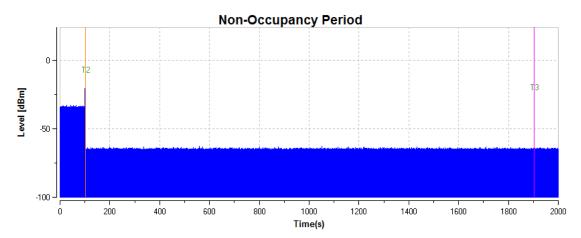
Test Frequency	Requirement	Measurement Level	Limit
5260MHz	Channel Closing Transmission Time	0.041	≤0.26s
SZOUWITZ	Channel Move Time	1.311	≤10s
5500MHz	Channel Closing Transmission Time	0.009	≤0.26s
SSUUIVITZ	Channel Move Time	1.069	≤10s
5280MHz	Channel Closing Transmission Time	0.008	≤0.26s
SZOUWITZ	Channel Move Time	1.028	≤10s
FF20MLI-	Channel Closing Transmission Time	0.020	≤0.26s
5520MHz	Channel Move Time	1.190	≤10s



Radar Type 0(20MHz/5260MHz)

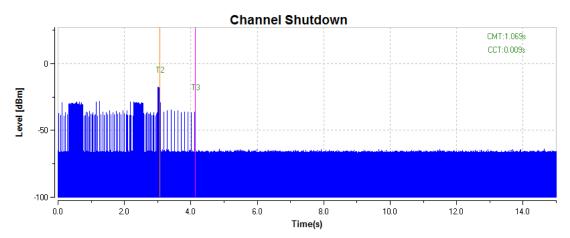


Non-occupancy Period-Elapse time 30minutes

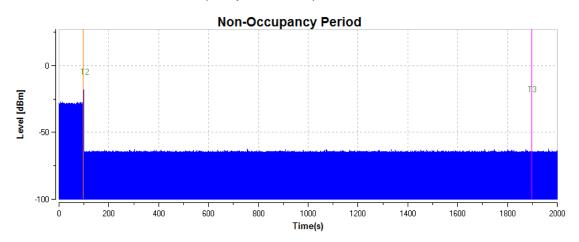




Radar Type 0(20MHz/5500MHz)

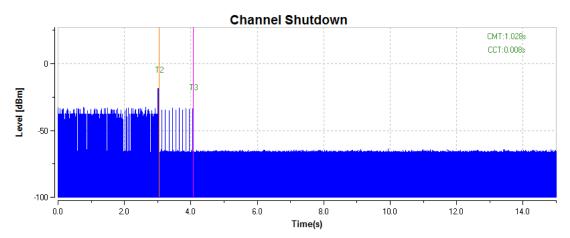


Non-occupancy Period-Elapse time 30minutes

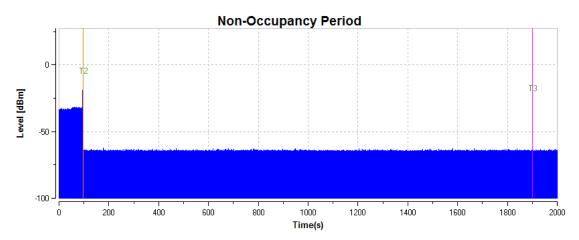




Radar Type 0(80MHz/5280MHz)

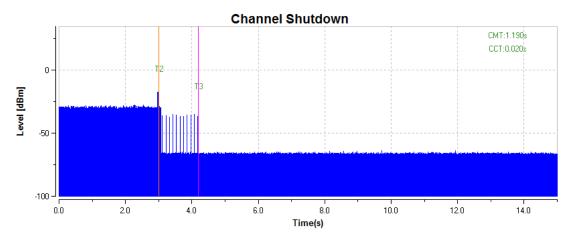


Non-occupancy Period-Elapse time 30minutes

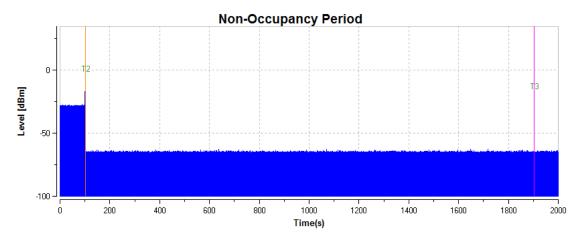




Radar Type 0(80MHz/5520MHz)



Non-occupancy Period-Elapse time 30minutes



RESULT: PASS



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC00408230403AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC00408230403AP02

----END OF REPORT----



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- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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