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# FCC Test Report

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Report No.: AGC03773220201FE07

**FCC ID** : 2AHRDEP-AC1689

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : USB WiFi Adapter

**BRAND NAME** : EDUP, EDUP HOME, EDUP LOVE, WISE TIGER, EPSKY,  
Card-King

**MODEL NAME** : EP-AC1689, EP-AC1689GS, EP-AC1689GS-Pro,  
EP-AC1689S, EP-AC1689GS Pro, EP-1689GS, EP-1689S,  
EP-1689, EP-1689GS Pro, EH-AC1689, EH-AC1689S,  
EH-AC1689GS, EH-AC1689GS Pro, EH-1689GS, EH-1689S,  
EH-1689, EH-1689GS Pro, WT-AC1689, WT-AC1689S,  
WT-AC1689GS, WT-AC1689GS Pro, WT-1689GS, WT-1689S,  
WT-1689, WT-1689GS Pro, KW-AC1689, KW-AC1689S,  
KW-AC1689GS, KW-AC1689GS Pro, KW-1689GS,  
KW-1689S, KW-1689, KW-1689GS Pro

**APPLICANT** : Shenzhen EDUP Electronics Technology Co., Ltd

**DATE OF ISSUE** : Feb. 28, 2022

**STANDARD(S)** : FCC Part 15.407

**TEST PROCEDURE(S)** : KDB 905462 D02

**REPORT VERSION** : V1.0

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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Feb. 28, 2022	Valid	Initial Release

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### 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Shenzhen EDUP Electronics Technology Co., Ltd
<b>Address</b>	6 Floor, #6 Building, No.48, Kangzheng Road Liantang Industrial Area, Buji Town, Shenzhen, China
<b>Manufacturer</b>	Shenzhen EDUP Electronics Technology Co., Ltd
<b>Address</b>	6 Floor, #6 Building, No.48, Kangzheng Road Liantang Industrial Area, Buji Town, Shenzhen, China
<b>Factory</b>	Shenzhen EDUP Electronics Technology Co., Ltd
<b>Address</b>	6 Floor, #6 Building, No.48, Kangzheng Road Liantang Industrial Area, Buji Town, Shenzhen, China
<b>Product Designation</b>	USB WiFi Adapter
<b>Brand Name</b>	EDUP, EDUP HOME, EDUP LOVE, WISE TIGER, EPSKY, Card-King
<b>Test Model</b>	EP-AC1689
<b>Series Model</b>	EP-AC1689GS, EP-AC1689GS-Pro, EP-AC1689S, EP-AC1689GS Pro, EP-1689GS, EP-1689S, EP-1689, EP-1689GS Pro, EH-AC1689, EH-AC1689S, EH-AC1689GS, EH-AC1689GS Pro, EH-1689GS, EH-1689S, EH-1689, EH-1689GS Pro, WT-AC1689, WT-AC1689S, WT-AC1689GS, WT-AC1689GS Pro, WT-1689GS, WT-1689S, WT-1689, WT-1689GS Pro, KW-AC1689, KW-AC1689S, KW-AC1689GS, KW-AC1689GS Pro, KW-1689GS, KW-1689S, KW-1689, KW-1689GS Pro
<b>Declaration of Difference</b>	All the series models are the same as the test model except for the model names and the appearance in shape, size and color.
<b>Date of test</b>	Feb. 15, 2022 to Feb. 25, 2022
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	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 Cool Cheng  
Cool Cheng  
(Project Engineer) Feb. 25, 2022

Reviewed By Calvin Liu  
Calvin Liu  
(Reviewer) Feb. 28, 2022

Approved By Max Zhang  
Max Zhang  
(Authorized Officer) Feb. 28, 2022

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## 2. GENERAL INFORMATION

The EUT is designed as “USB WiFi Adapter”. It is designed by way of utilizing the OFDM technology to achieve the system operation.

<b>Equipment Type</b>	<input type="checkbox"/> Outdoor access points <input type="checkbox"/> Indoor access points <input type="checkbox"/> Fixed P2P access points <input checked="" type="checkbox"/> Client devices
<b>Operation Frequency</b>	<input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz <input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input checked="" type="checkbox"/> U-NII 2C:5470MHz~5725MHz <input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz
<b>DFS Design Type</b>	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection
<b>TPC Function</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Test Frequency Range:</b>	For 802.11a/n/ac-HT20-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz For 802.11n/ac-HT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz,5755~5795MHz For 802.11ac-HT80: 5210MHz, 5290MHz, 5530MHz, 5610MHz,5775MHz
<b>Output Power</b>	IEEE 802.11a:4.07dBm; IEEE 802.11n-HT20:3.81dBm; IEEE 802.11n-HT40:4.07dBm; IEEE 802.11ac-VHT20:3.76dBm; IEEE 802.11ac-VHT40:4.00dBm; IEEE 802.11ac-VHT80:4.09dBm
<b>Output Power_MIMO</b>	IEEE 802.11n(20):6.82dBm; IEEE802.11n(40):6.72dBm IEEE 802.11ac(20):6.64dBm; IEEE802.11ac(40):6.68dBm; IEEE802.11ac(80):7.04dBm
<b>Modulation</b>	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM
<b>Data Rate</b>	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 400Mbps
<b>Number of channels</b>	7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 21 channels of U-NII-2C Band 8 channels of U-NII-3 Band
<b>Hardware Version</b>	1.0
<b>Software Version</b>	1.0
<b>Antenna Designation</b>	SMT antenna Antenna (Comply with requirements of the FCC part 15.203)
<b>Number of transmit chain</b>	2(802.a/11n/ac all used four antennas, but 802.11a support SISO and 802.11n/ac support MIMO)
<b>Antenna Gain</b>	Antenna 1: 1.6dBi Antenna 2: 1.6dBi
<b>Power Supply</b>	DC 5V by PC

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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

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	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	Aug. 18, 2021	Aug. 17, 2022
EXA Signal Analyzer	Agilent	N9020A	MY49100060	Aug. 18, 2021	Aug. 17, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Power splitter	Mini-Circuits	ZFRSC-183-s	3122	N/A	N/A
RF Cable	Harbour	SHWCB-3000-N	N/A	May 15, 2020	May 14, 2022
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

Requirement	Operational Mode		
	<input type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> 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	
	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> 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	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> 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

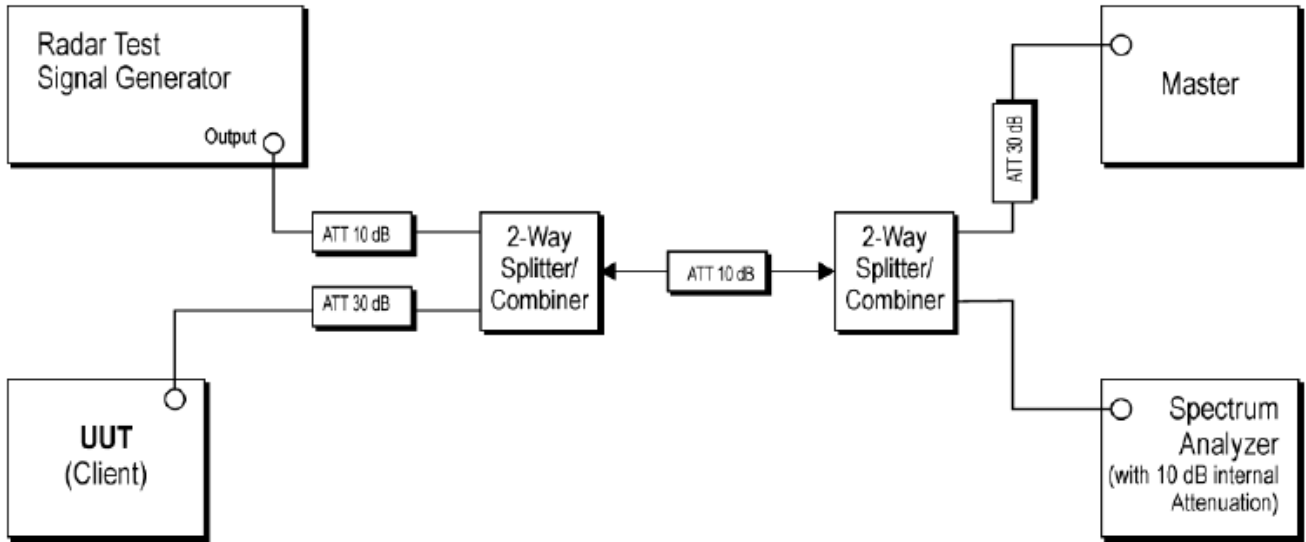
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels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

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### 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 $\geq$ 200 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 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
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.

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#### 6.4. RADAR TEST WAVEFORMS

**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

#### 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 5dBi, required detection threshold is -59 dBm (= -64+5).

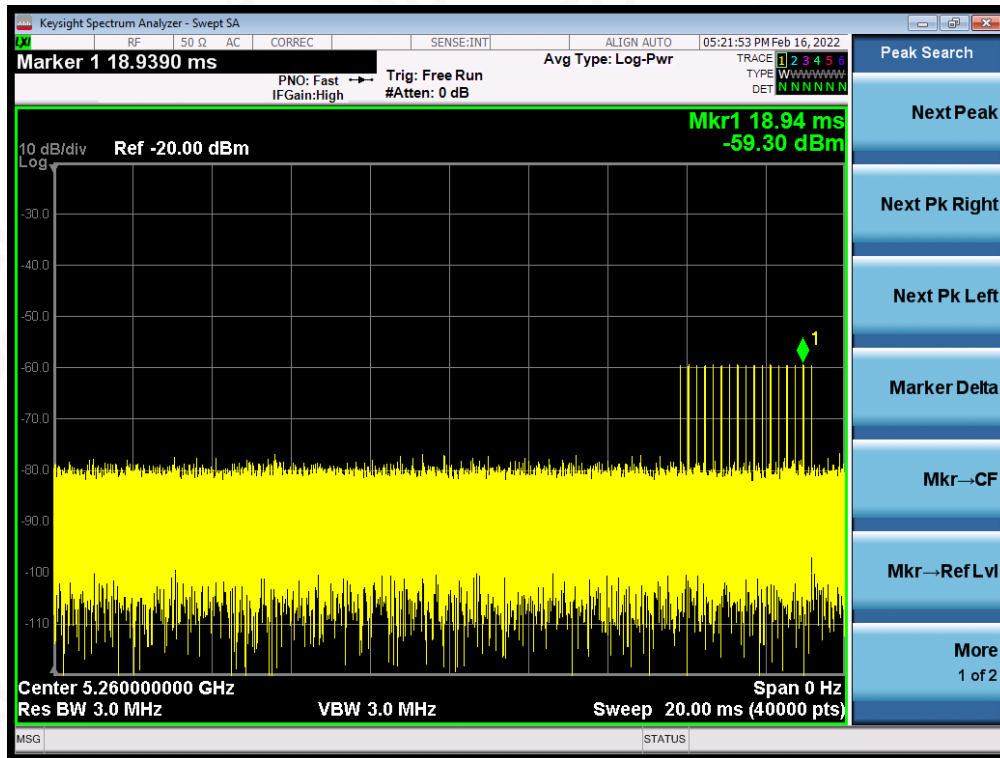
Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm .

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Radar Type 0



6.6.2 TEST RESULT

Channel Move Time and Channel Closing Transmission Time

Test Frequency	Requirement	Measurement Level	Limit
5510MHz	Channel Closing Transmission Time	1.069s	≤10s
	Channel Move Time	0.009s	≤0.26s
5270MHz	Channel Closing Transmission Time	1.311s	≤10s
	Channel Move Time	0.041s	≤0.26s

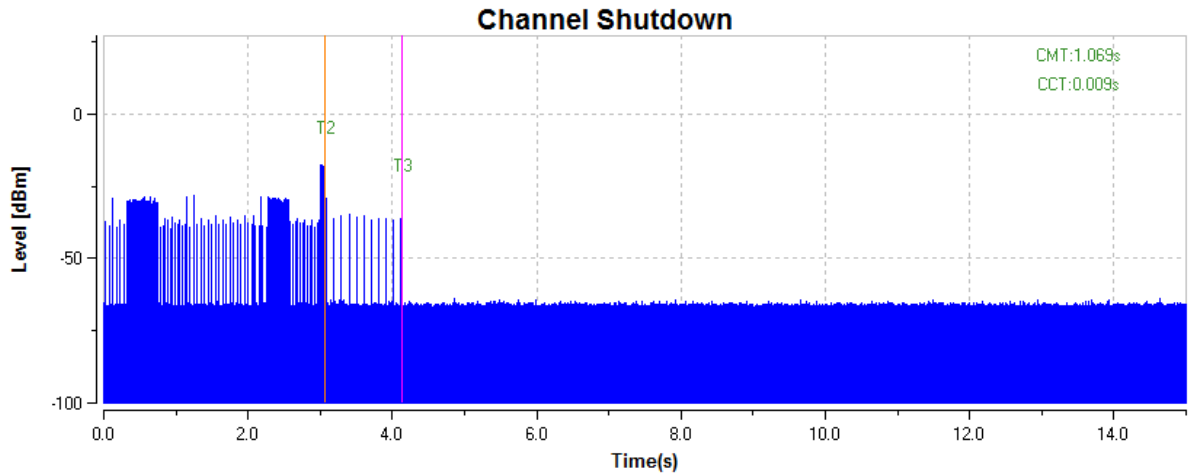
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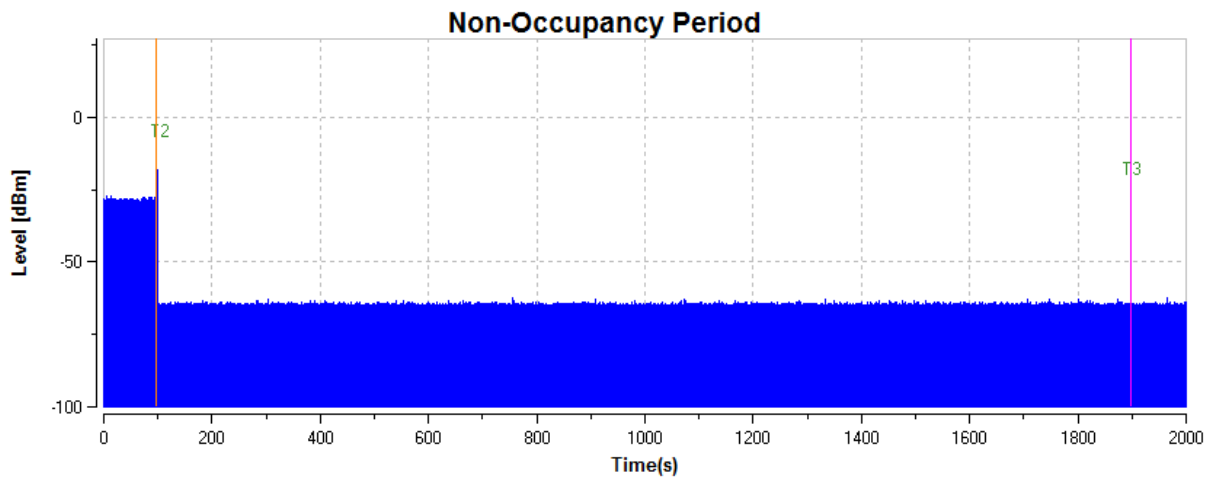




Radar Type 0(20MHz/5530MHz)



Non-occupancy Period-Elapse time 30minutes

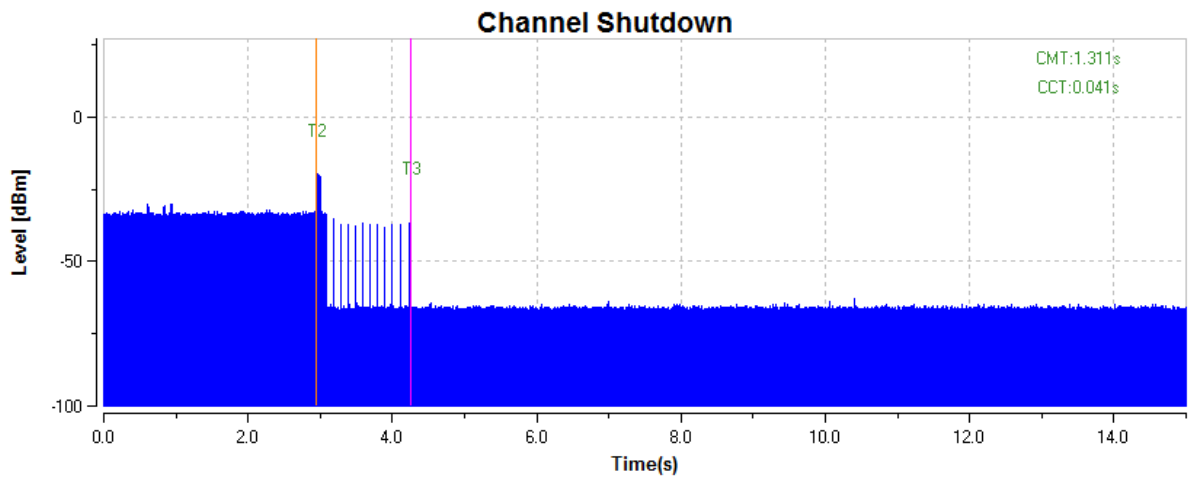


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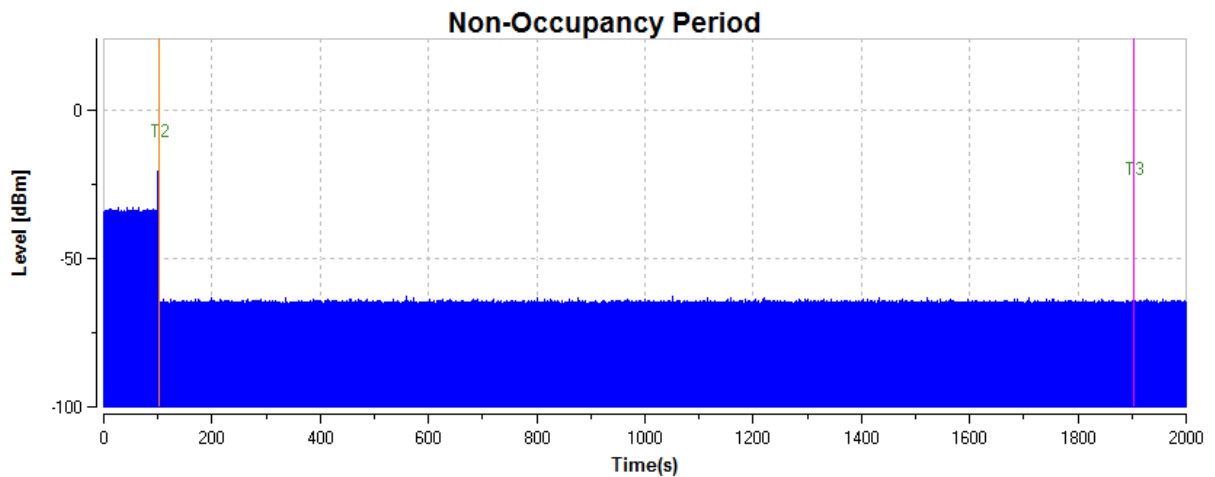
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Radar Type 0(20MHz/5290MHz)



Non-occupancy Period-Elapse time 30minutes



**RESULT: PASS**

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## **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC03773220201AP01

## **APPENDIX B: PHOTOGRAPHS OF EUT**

Refer to the Report No.: AGC03773220201AP02

**----END OF REPORT----**

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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by [agc@agc-cert.com](mailto:agc@agc-cert.com).

