

Report No. : FG1D1645-01I



FCC Part 96.47 TEST REPORT

FCC ID	:	PU5-TP00139AS
Equipment	:	Notebook Computer
Brand Name	:	Lenovo
Model Name	:	TP00139A
Applicant	:	Wistron Corporation
		21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221,Taiwan
Manufacturer	:	Lenovo PC HK Limited.
		23/F, Lincoln House, Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong, China
Standard	:	FCC Part 96.47

Equipment: Foxconn T99W175 tested inside of Lenovo Notebook Computer.

The product was received on Jan. 21, 2022 and testing was performed from Feb. 10, 2022 to Feb. 10, 2022. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in 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. Wensan Laboratory, the test report shall not be reproduced except in full.

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Approved by: Jones Tsai Sporton International Inc. Wensan Laboratory

Page Number: 1 of 11Issue Date: Feb. 23, 2022Report Version: 01



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History of this test report

Report No.	Version	Description	Issue Date	
FG1D1645-01I	01	Initial issue of report	Feb. 23, 2022	



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark			
3	96.47	End User Device additional requirement	Pass	-			
Declaration	Declaration of Conformity:						
The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.							
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.							
Comments and Explanations:							
The product specifications of the EUT presented in the report are declared by manufacturer who shall take full responsibility for the authenticity.							
Reviewed by: Sheng Kuo							

Report Producer: Ruby Zou

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature				
Equipment	Notebook Computer			
Brand Name	Lenovo			
Model Name	TP00139A			
FCC ID	PU5-TP00139AS			
Sample 1	EUT with AWAN Antenna			
Sample 2	EUT with LUXSHARE-ICT Antenna			
	WCDMA/HSPA/LTE/5G NR/GNSS			
	WLAN 11a/b/g/n HT20/HT40			
EUT supports Radios application	WLAN 11ac VHT80/VHT160			
	WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE			
EUT Stage	Production Unit			

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
- 2. Equipment: Foxconn T99W175 tested inside of Lenovo Notebook Computer.
- 3. All the radiated test cases were performed with Sample 1 and Battery 1.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory		
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010		
Test Oite Ne	Sporton Site No.		
Test Site No.	TH05-HY		
Test Engineer	Mina Liu		
Temperature	22~25°C		
Relative Humidity	41~45%		

FCC designation No.: TW3786



1.4 Applicable Standards

- FCC Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

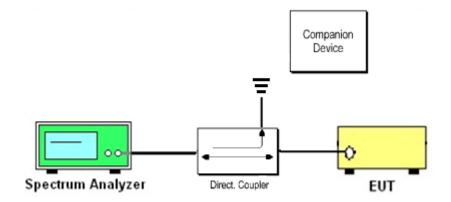
Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



The companion device is certified CBSD (FCC ID: S9GQ710US02)



3 End User Device additional requirement

3.1 Test Requirement

FCC Part 96.47

(a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

(1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

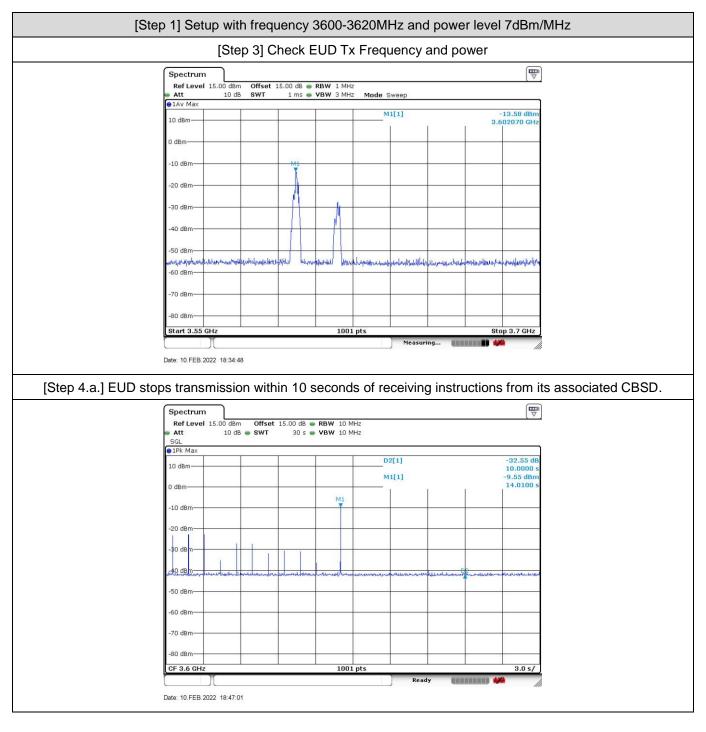
3.2 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Ruckus CBSD (FCC ID: S9GQ710US02) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

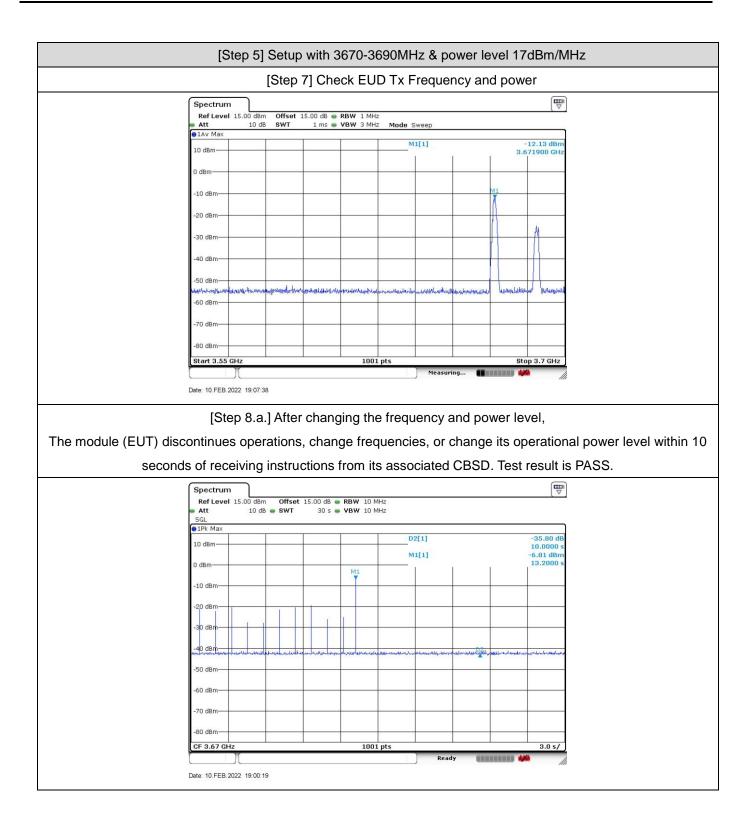
- 1. Setup with frequency 3600-3620MHz and power level 7dBm/MHz
- 2. Enable AP service from Ruckus Cloud management
- 3. Check EUD Tx Frequency and power
- 4. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.
- 5. Setup with 3670-3690MHz & power level 17dBm/MHz
- 6. Enable AP service from Ruckus Cloud management
- 7. Check EUD Tx Frequency and power
- 8. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.



3.3 Test Result









4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Feb. 10, 2022	Aug. 29, 2022	TH05-HY