



# Spot Check Evaluation

**APPLICANT** : Lenovo(Shanghai) Electronics Technology Co., Ltd.  
**EQUIPMENT** : Portable Tablet Computer  
**BRAND NAME** : Lenovo  
**MODEL NAME** : TB128XU  
**FCC ID** : O57TB128XU  
**STANDARD** : 47 CFR Part 15 Subpart C §15.247  
47 CFR Part 15 Subpart E §15.407

We, Sporton International Inc. (Kunshan), 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. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



**Sporton International Inc. (Kunshan)**

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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR230211	Rev. 01	Initial issue of report	Apr. 09, 2022



# 1 General Description

## 1.1 Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

## 1.2 Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	TB128XU
FCC ID	O57TB128XU
HW Version	Lenovo TB128XU
SW Version	TB128XU_RF01_220301
EUT Stage	Identical Prototype

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Modification of EUT

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



## 1.5 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-KS	CN1257	314309



## 2 Re-use of Measured Data

### 2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: TB128XU, FCC ID: O57TB128XU) is electrically identical to the reference device (Model: TB128FU, FCC ID: O57TB128FU) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS) and FCC Part 15E (equipment class: NII) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: O57TB128XU.

### 2.2 Model Difference Information

The **main** difference between FCC ID: O57TB128FU and FCC ID: O57TB128XU is as below:  
O57TB128F is BT/WLAN SKU not support WWAN bands, O57TB128XU is BT/WLAN + WWAN SKU support WWAN bands, they share the same part of BT/WLAN.

Other differences and all the details of similarity and difference can be found in the confidential documents (TB128XU\_Operational Description of Product Equality Declaration).



### 2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Report No.	FCC ID Filling (Variant)	Report Title/Section
15C	DTS (BLE)	2402~2480	O57TB128FU	Original Grant	FR230211-01B	O57TB128XU	All sections applicable
	DTS (WLAN)	2412~2462	O57TB128FU	Original Grant	FR230211-01C	O57TB128XU	All sections applicable
15E	U-NII-1	5180~5240	O57TB128FU	Original Grant	FR230211-01D	O57TB128XU	All sections applicable
	U-NII-2A	5260~5320	O57TB128FU	Original Grant	FR230211-01D	O57TB128XU	All sections applicable
	U-NII-2C	5500~5700	O57TB128FU	Original Grant	FR230211-01D	O57TB128XU	All sections applicable
	U-NII-3	5745~5825	O57TB128FU	Original Grant	FR230211-01D	O57TB128XU	All sections applicable
	DFS	5260~5320 5500~5700	O57TB128FU	Original Grant	FZ230211-01	O57TB128XU	All sections applicable



### 2.4 Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model

Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	O57TB128FU Parent Worst Result	O57TB128XU Variant Check Result	Difference (dB)
Conducted Power (dBm)	BLE 1Mbps	2.21	2.02	-0.19
	BLE 2Mbps	2.38	2.25	-0.13
	11b, 2.4GHz	21.98	21.72	-0.26
	11g, 2.4GHz	22.74	22.67	-0.07
	11n HT20, 2.4GHz	21.92	21.76	-0.16
	11n HT40, 2.4GHz	20.47	20.42	-0.05
	11a, 5.2GHz	18.52	18.22	-0.3
	11a, 5.3GHz	18.04	17.97	-0.07
	11a, 5.5GHz	18.40	17.79	-0.61
	11a, 5.8GHz	18.02	17.74	-0.28
	11n HT20, 5.2GHz	17.81	17.62	-0.19
	11n HT20, 5.3GHz	17.53	17.46	-0.07
	11n HT20, 5.5GHz	17.72	17.17	-0.55
	11n HT20, 5.8GHz	17.17	16.62	-0.55
	11n HT40, 5.2GHz	17.18	16.97	-0.21
	11n HT40, 5.3GHz	16.88	16.68	-0.2
	11n HT40, 5.5GHz	16.58	15.99	-0.59
	11n HT40, 5.8GHz	16.40	16.09	-0.31
	11ac VHT20, 5.2GHz	17.94	17.66	-0.28
	11ac VHT20, 5.3GHz	17.63	17.52	-0.11
	11ac VHT20, 5.5GHz	17.86	17.19	-0.67
	11ac VHT20, 5.8GHz	17.28	16.71	-0.57
	11ac VHT40, 5.2GHz	17.24	17.02	-0.22
	11ac VHT40, 5.3GHz	16.95	16.77	-0.18
	11ac VHT40, 5.5GHz	16.61	16.10	-0.51
	11ac VHT40, 5.8GHz	16.47	16.18	-0.29
	11ac VHT80, 5.2GHz	16.16	15.75	-0.41
	11ac VHT80, 5.3GHz	12.89	12.56	-0.33
	11ac VHT80, 5.5GHz	16.00	15.46	-0.54
	11ac VHT80, 5.8GHz	16.22	15.85	-0.37





**Conclusion:**

Conducted Power test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level spot check are shown within expected level compliant to limit line.

We are using conducted power from the original parent model reports to list on the grant.

The same DFS detection is used in the variant. Hence, there is no spot check data for DFS.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



### 3 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Mar. 30, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Mar. 30, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Mar. 30, 2022	Jan. 04, 2023	Conducted (TH01-KS)

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