

## RF Exposure Evaluation declaration

Product Name : ThinkPad TrackPoint Keyboard II  
Machine Type / Model No. : KC-1957  
FCC ID : A5MKC-1957

Applicant : Lenovo (Beijing) Limited

Address : 201-H2-6, Floor 2, Building 2, No.6 Shangdi West Road, Haidian District,  
Beijing, China 100085

Date of Receipt : Dec. 26, 2019

Date of Declaration : Jan. 21, 2020

Report No. : 19C0439R-SAUSP03V00

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Jan. 21, 2020

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Product Name	ThinkPad TrackPoint Keyboard II	
Applicant	Lenovo ( Beijing ) Limited	
Address	201-H2-6, Floor 2, Building 2, No.6 Shangdi West Road, Haidian District, Beijing, China 100085	
Manufacturer	Chicony Electronics Co., Ltd.	
Machine Type /Model No.	KC-1957	
FCC ID.	A5MKC-1957	
Trade Name	Lenovo	
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance $\geq$ 20 cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By :

*Leven Huang*

( Senior Adm. Specialist / Leven Huang )

Tested By :

*wen Lee*

( Engineer / Wen Lee )

Approved By :

*Vincent Lin*

( Director / Vincent Lin )

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	ThinkPad TrackPoint Keyboard II
Trade Name	Lenovo
Machine Type /Model No.	KC-1957
FCC ID	A5MKC-1957
Frequency Range	BLE: 2402-2480MHz 2.4G Wireless: 2402-2479MHz
Number of Channels	BLE: 40CH 2.4G Wireless: 78CH
Data Speed	BLE: 2Mbps 2.4G Wireless: 1Mbps
Type of Modulation	GFSK
Antenna Type	Chip Antenna
Channel Control	Auto
Antenna Gain	Refer to the table "Antenna List"

### 1.2. Antenna List :

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	MAGIC	MTCA321608002G4E	Chip Antenna	2dBi for 2.4 GHz

## 2. RF Exposure Evaluation

### 2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)\*sqrt(f(GHz)≤3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 2450MHz and antenna separation distance = 5mm,  
SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum PK output power Peak Gain: 2dBi			SAR Test Exclusion Threshold (mW)	Calculated Threshold Value (≤3.0 SAR is not required)
	conducted (dBm)	EIRP (dBm)	EIRP (mW)		
2402~2480	1.42	3.42	2.20	10	0.681

Note1: The SAR/MPE measurement is not necessary.

Note2: The conducted maximum peak output power is refer to report No.: 19C0439R-RFUSP01V00 from the DEKRA.

- 2.) Operation frequency = 2450MHz and antenna separation distance = 5mm,  
SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum H-Field power		SAR Test Exclusion Threshold (mW)	Calculated Threshold Value (≤3.0 SAR is not required)
	(dBuV/3m)	(mW)		
2402-2479	98.22	1.99	10	0.622

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum H-Field power is refer to report No.: 19C0439R-RFUSP15V00 from the DEKRA.