

## RF Exposure Evaluation declaration

Product Name : Lenovo 700 Ultraportable Bluetooth Speaker  
Model No. : LX001  
FCC ID : A5M-LX001

Applicant : Lenovo ( Beijing ) Limited

Address : No.6 Chuang Ye Road, Shangdi Information Industry Haidan District  
Beijing, 100085 China

Date of Receipt : Dec. 27, 2018

Date of Declaration : Feb. 11, 2019

Report No. : 18C0536R-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: Feb. 11, 2019

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Product Name	Lenovo 700 Ultraportable Bluetooth Speaker
Applicant	Lenovo ( Beijing ) Limited
Address	No.6 Chuang Ye Road, Shangdi Information Industry Haidan District Beijing, 100085 China
Manufacturer	1.Lenovo ( Beijing ) Limited 2.Luxshare Electronic Technology (KunShan) Ltd.
Model No.	LX001
FCC ID.	A5M-LX001
Trade Name	Lenovo
Applicable Standard	FCC 47 CFR 1.1307 KDB 447498 D01 v06
Test Result	Complied

Documented By :



( Senior Adm. Specialist / Rita Huang )

Tested By :



( Senior Engineer / Wen Lee )

Approved By :



( Director / Vincent Lin )

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Lenovo 700 Ultraportable Bluetooth Speaker
Model No.	LX001
Trade Name	Lenovo
FCC ID	A5M-LX001
Frequency Range	2402-2480MHz
Number of Channels	79
Data Speed	3Mbps
Type of Modulation	FHSS: GFSK(1Mbps) / $\pi$ /4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	PIFA 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	LUXSHARE	N/A	PIFA Antenna	-0.1 dBi for 2.4 GHz

### 1.3. Conducted Power Measurement (Including tolerance allowed for production unit):

Bluetooth mode maximum output power	Standard	Mode	BW	SISO			
				CH	PK Power	AV Target	AV Power
				0	6.83	7.5	6.59
15.247 (2.4GHz)	Normal	GFSK	39	6.50	7.5	6.26	
			78	7.24	7.5	7.02	
			0	9.28	8	6.17	
	EDR	8DPSK	39	9.49	8	6.45	
			78	10.25	8	7.50	
			0	N/A	N/A	N/A	
BLE	GFSK	19	N/A	N/A	N/A		
		39	N/A	N/A	N/A		

## 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 ( $\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$ ), SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 2480MHz and antenna separation distance = 5mm,  
SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum AV output power		SAR Test Exclusion Threshold	Calculated Threshold Value ( $\leq 3.0$ SAR is not required)
	Target (dBm)	Target (mW)	(mW)	
2480	8	6.31	10	1.987

Note1: The SAR/MPE measurement is not necessary.

Note2: The conducted maximum peak output power is refer to report No.: 18C0536R-SACAP01V00 from the DEKRA.