

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

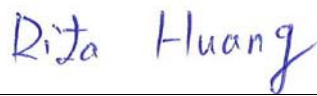
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Product Name	Lenovo 700 Ultraportable Bluetooth Speaker
Applicant	Lenovo (Beijing) Limited
Address	No.6 Chuang Ye Road, Shangdi Information Industry Haidan District Beijing, 100085 China
Manufacturer	1.Lenovo (Beijing) Limited 2.Luxshare Electronic 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) / π /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
	15.247 (2.4GHz)	Normal	GFSK	0	6.83	7.5	6.59
				39	6.50	7.5	6.26
				78	7.24	7.5	7.02
		EDR	8DPSK	0	9.28	8	6.17
				39	9.49	8	6.45
				78	10.25	8	7.50
		BLE	GFSK	0	N/A	N/A	N/A
				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 (≤ 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.