

FCC RF EXPOSURE REPORT

FCC ID: A5MYOGA27ACH6

Project No. : 2103C103
Equipment : Personal Computer
Brand Name : Lenovo
Product Name / Model Name : Yoga AIO 7 27ACH6
Series Model : N/A
Applicant : Lenovo (Beijing) Limited
Address : 201-H2-6, Floor 2, Building 2, No.6 Shangdi West Road, Haidian District, Beijing, China 100085
Manufacturer : Lenovo (Beijing) Limited
Address : 201-H2-6, Floor 2, Building 2, No.6 Shangdi West Road, Haidian District, Beijing, China 100085
Date of Receipt : Mar. 12, 2021
Date of Test : Mar. 15, 2021 ~ Apr. 24, 2021
Issued Date : Apr. 28, 2021
Report Version : R00
Test Sample : Engineering Sample No.: DG20210315120
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Apr. 28, 2021

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Luxshare-ICT Corporation	L20RF035-YT-H	PIFA	N/A	-0.48	BT&BLE& 2.4G
1	Luxshare-ICT Corporation	L20RF035-YT-H	PIFA	N/A	-2.66	Band 1-2
1	Luxshare-ICT Corporation	L20RF035-YT-H	PIFA	N/A	-1.33	Band 3
1	Luxshare-ICT Corporation	L20RF035-YT-H	PIFA	N/A	-1.02	Band 4

Note:

- 1) The antenna gain is provided by the manufacturer.

3. TEST RESULTS

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-0.48	0.8954	7.1	5.1286	0.00091	1	Complies

For BT_LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-0.48	0.8954	5.93	3.9174	0.00070	1	Complies

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-0.48	0.8954	17.49	56.1048	0.01000	1	Complies

For 5GHz UNII-1:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-2.66	0.5420	16.15	41.2098	0.00445	1	Complies

For 5GHz UNII-2A:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-2.66	0.5420	16.49	44.5656	0.00481	1	Complies

For 5GHz UNII-2C:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-1.33	0.7362	17.62	57.8096	0.00847	1	Complies

For 5GHz UNII-3:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-1.02	0.7907	14.39	27.4789	0.00432	1	Complies

For the max simultaneous transmission MPE:

BT+5G

Power Density (S) (mW/cm ²)	Power Density (S) (mW/cm ²)	Total	Limit of Power Density (S) (mW/cm ²)	Test Result
BT	5GHz			
0.00091	0.00847	0.00938	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report