

FCC RF EXPOSURE REPORT

FCC ID: 2BNIZ-V301

Project No. : 2412G040
Equipment : Projector
Brand Name : AMTC, ONN, ONN., onn.
Test Model : ON25APJ001C
Series Model : V301XX
Applicant : Shenzhen MTC Digital Technology Co., Ltd
Address : MTC Industry Park, No.1, Lilang Road, Xialilang Community, Nanwan Street, Longgang District, Shenzhen, China
Manufacturer 1 : Element TV Company LP
Address : 392 US Highway 321 Bypass South WINNSBORO SC 29180 USA
Manufacturer 2 : Shenzhen MTC Digital Technology Co., Ltd
Address : MTC Industry Park, No.1, Lilang Road, Xialilang Community, Nanwan Street, Longgang District, Shenzhen, China
Factory : Shenzhen MTC Digital Technology Co., Ltd
Address : MTC Industry Park, No.1, Lilang Road, Xialilang Community, Nanwan Street, Longgang District, Shenzhen, China
Date of Receipt : Dec. 23, 2024
Date of Test : Dec. 25, 2024 ~ Jan. 22, 2025
Issued Date : Mar. 11, 2025
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024122356
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

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

Prepared by : 
Sheldon Ou

Approved by : 
Chay Cai

Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-6-2412G040	R00	Original Report.	Mar. 11, 2025	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

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

2. ANTENNA SPECIFICATION

For BT &LE:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	 FEIYUXIN — 飞宇信 —	3.03.0101003987	FPC	IPEX	2.0

Note: The antenna is provided by the manufacturer.

For WLAN 2.4GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	 FEIYUXIN — 飞宇信 —	3.03.10010031142	FPC	IPEX	4.54

Note: The antenna is provided by the manufacturer.

For RLAN 5GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	 FEIYUXIN — 飞宇信 —	3.03.10010031142	FPC	IPEX	4.19

Note: The antenna is provided by the manufacturer.

3. CALCULATED RESULT

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.0	1.5849	6.40	4.3652	0.00138	1	Complies

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.0	1.5849	6.19	4.1591	0.00131	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
4.54	2.8445	15.35	34.2768	0.01941	1	Complies

For 5GHz:

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
4.19	2.6242	17.65	58.2103	0.03041	1	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
BT	5GHz			
0.00138	0.03041	0.03179	1	Complies

Note:

- (1) The calculated distance is 20 cm.
- (2) Output power including tune up tolerance.
- (3) Ratio=Power Density (S) (mW/cm²)/Limit of Power Density (S) (mW/cm²)

End of Test Report