

FCC RF EXPOSURE REPORT

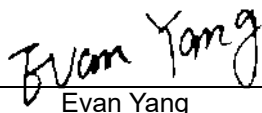
FCC ID: 2AZ3ICP180

Project No. : 2408C029
Equipment : Projector
Brand Name : HP
Test Model : CP180
Series Model : N/A
Applicant : GT Technology Chongqing Limited
Address : No.1195 Mingtao 1st Road, Changshou District, Chongqing, P.R. China
Manufacturer : GT Technology Chongqing Limited
Address : No.1195 Mingtao 1st Road, Changshou District, Chongqing, P.R. China
Factory : Guangzhou Rigal Electronics Co., Ltd.
Address : No.3-1, Ruixiang Road, Huadu District, Guangzhou, China
Date of Receipt : Aug. 06, 2024
Date of Test : Aug. 06, 2024 ~ Sep. 24, 2024
Issued Date : Nov. 11, 2024
Report Version : R00
Test Sample : Engineering Sample No.: DG202408065
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

:


Evan Yang

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-5-2408C029	R00	Original Report.	Nov. 11, 2024	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	Model Name	Antenna Type	Connector	Gain (dBi)
1	 RTANT	SDC F543A	FPC	N/A	2.69


Note: The antenna gain is provided by the manufacturer.

For 2.4GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	 RTANT	SDC F543A	FPC	N/A	2.56

Note: The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	 RTANT	SDC F543A	FPC	N/A	1.4

Note: The antenna gain 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
2.69	1.8578	-9.11	0.1227	0.00005	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
2.69	1.8578	-11.83	0.0656	0.00002	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
2.56	1.8030	15.03	31.8420	0.01143	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
1.4	1.3804	16.75	47.3151	0.01300	1	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
BT	5GHz			
0.00005	0.01300	0.01305	1	Complies

Note:

(1) The calculated distance is 20 cm.

(2) Ratio=Power Density (S) (mW/cm²)/Limit of Power Density (S) (mW/cm²)

End of Test Report