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/cm^2)/Limit of Power Density (S) (mW/cm^2)

End of Test Report