

Maximum Permissible Exposure Report

FCC ID: EROTS770

Report No. : BTL-FCCP-5-2004T143
Equipment : 7 inch Touch Screen Surface mount
Model Name : M201923005, TS-770-B-S, TS-770-W-S
Brand Name : CRESTRON
Applicant : Crestron Electronics, Inc.
Address : 15 Volvo Drive, Rockleigh, NJ 07647

FCC Rule Part(s) : FCC Guidelines for Human Exposure IEEE C95.1

Date of Receipt : 2020/4/27
Date of Test : 2020/4/27 ~ 2020/5/11
Issued Date : 2020/5/27

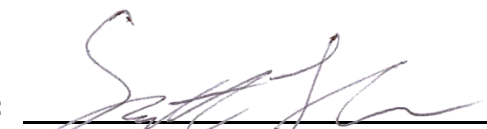
The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by :


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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	2020/5/27

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

For BT, BLE, WLAN:

Ant.	Brand	Test Model	Antenna Type	Connector	Gain (dBi)
1	YAGEO	TS WLAN MAIN	PIFA	IPEX	-1.64

For 5G RLAN:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	YAGEO	TS WLAN MAIN	PIFA	IPEX	1.86	UNII-1
					4.17	UNII-3

TEST RESULTS

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-1.64	0.6855	6.63	4.6026	0.00062799	1	Complies

For BLE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-1.64	0.6855	1.97	1.5740	0.00021476	1	Complies

For 2.4G WLAN:

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-1.64	0.6855	20.83	121.0598	0.01651773	1	Complies

For 5G RLAN:

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.17	2.6122	19.42	87.4984	0.04549361	1	Complies

Note:

1. The calculated distance is 20 cm.

COLLOCATED POWER DENSITY CALCULATIONS

So for BT, WIFI simultaneous transmission: $0.00062799/1+0.04549361/1=0.0461216<1$

End of Test Report