

Maximum Permissible Exposure Report

FCC ID: 2AF82-BXP100

Report No. : BTL-FCCP-5-2104T005
Equipment : Box PC
Model Name : BXP-100, xxxBXP-1XXXX (Where "x" and "X" may be any alphanumeric character, blank, "_" or "-" for marketing purpose only.)
Brand Name : Qbic
Applicant : Qbic Technology Co., Ltd.
Address : 26F.-12, NO.99, SEC. 1, XINTAI 5TH RD., XIZHI DIST., NEW TAIPEI CITY 22175, TAIWAN

FCC Rule Part(s) : FCC CFR Title 47, Part 2 (2.1091)
FCC Guidelines for Human Exposure IEEE C95.1

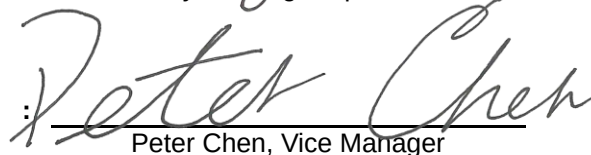
Date of Receipt : 2021/6/22
Date of Test : 2021/6/22 ~ 2021/7/19
Issued Date : 2021/7/29

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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Approved by


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**BTL Inc.**

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REVISION HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-5-2104T005	R00	Original Report.	2021/7/29

Table for Filed Antenna

Antenna	Manufacture	Project	Type	Connector	Frequency (MHz)	Gain (dBi)
1	INPAQ	BXP-100	PCB Dipole	N/A	2400-2500	2.58
					5150-5250	2.55
					5725-5850	2.73

Maximum RF OUTPUT POWER

Mode		Maximum Average Power (dBm)
WLAN 2.4 GHz	IEEE 802.11b	25.01
	IEEE 802.11g	25.12
	IEEE 802.11n (HT20)	25.13
RLAN 5 GHz	IEEE 802.11a	21.15
	IEEE 802.11n (HT20)	21.08
	IEEE 802.11n (HT40)	19.56
	IEEE 802.11ac (VHT20)	20.86
	IEEE 802.11ac (VHT40)	19.51
	IEEE 802.11ac (VHT80)	16.51
BT		5.64
BLE		7.74

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

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
2.58	1.8113	5.64	3.6644	0.00132114	1	Complies

For BLE:

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
2.58	1.8113	7.74	5.9429	0.00214265	1	Complies

For 2.4G WLAN:

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
2.58	1.8113	25.13	325.8367	0.11747633	1	Complies

For 5G RLAN:

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
2.55	1.7989	21.15	130.3167	0.04666061	1	Complies

Note:

1. The calculated distance is 20 cm.

End of Test Report