

RF Exposure Report

Report No.: MFBHTZ-WTW-P22080640-1

FCC ID: PPQ202008EG91NAXD

Test Model: EX-1193-M

Series Model: EX-1193-E, EX-1193-T, EX-1193-M-48, EX-1193-E-48, EX-1193-T-48
(refer to item 3.1 for more details)

Received Date: Aug. 18, 2022

Date of Evaluation: Jan. 06, 2023

Issued Date: Jan. 13, 2023

Applicant: LITE-ON Technology Corp.

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(R.O.C.)

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN

FCC Registration /
Designation Number: 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
MFBHTZ-WTW-P22080640-1	Original Release	Jan. 13, 2023

1 Certificate of Conformity

Product: AC charging station

Brand: LITEON

Test Model: EX-1193-M

Series Model: EX-1193-E, EX-1193-T, EX-1193-M-48, EX-1193-E-48, EX-1193-T-48 (refer to item 3.1 for more details)

Sample Status: Engineering Sample

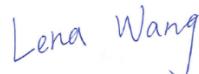
Applicant: LITE-ON Technology Corp.

Date of Evaluation: Jan. 06, 2023

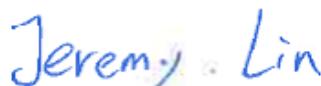
FCC Rule Part: FCC Part 2 (Section 2.1091)

Standards: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.



Prepared by : _____, **Date:** _____ Jan. 13, 2023
Lena Wang / Specialist



Approved by : _____, **Date:** _____ Jan. 13, 2023
Jeremy Lin / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	f/1500	30
1500-100,000	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

2.4 Description of Antenna

The antenna information is listed as below.

WWAN Antenna										
Antenna Type	Monopole Coupling									
Band	WCDMA			LTE						
	II	IV	V	2	4	5	12	13	25	26
Gain	3.8	3	1.4	3.8	3	1.4	1.2	1.7	3.8	1.4

*Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2.5 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max PK. Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	2412-2462	21.50	3.0	20	0.056	1.00

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA II	1850-1910	24.00	3.8	27.80	20	0.120	1.00
WCDMA IV	1710-1755	24.00	3.0	27.00	20	0.100	1.00
WCDMA V	824-849	24.00	1.4	25.40	20	0.069	0.55
LTE 2	1850-1910	24.50	3.8	28.30	20	0.135	1.00
LTE 4	1710-1755	24.50	3.0	27.50	20	0.112	1.00
LTE 5	824-849	24.50	1.4	25.90	20	0.077	0.55
LTE 12	699-716	24.50	1.2	25.70	20	0.074	0.47
LTE 13	777-787	24.50	1.7	26.20	20	0.083	0.52
LTE 25	1850-1915	25.00	3.8	28.80	20	0.151	1.00
LTE Band 26 (Part 22)	824.7-848.3	25.00	1.4	26.40	20	0.087	0.54
LTE Band 26 (Part 90)	814.7-823.3	25.00	1.4	26.40	20	0.087	0.54

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.
3. The max. power is Tune-up Power.
4. WLAN 2.4G & WWAN & NFC technology can transmit at same time.
5. The EUT contains certified WLAN module with FCC ID: PPQLILYW131 and NFC module with FCC ID: PPQRYORR2L.

Frequency (MHz)	Field Strength (dBuV/m@3m)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE)	1-g extremity SAR test exclusion thresholds	Result
13.56	66.2	0.00125	5	0.00125	1107.433774	Pass

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Calculate SAR test exclusion thresholds from condition "3" formulas.
3. Field Strength (dBuV/m@3m) = Field Strength (dBuV/m@30m) + 40*log(30/3).
4. Max Power (dBm) = Field Strength of Fundamental (dBuV/m@3m) – 95.23,

$$\text{Max Power (mW)} = 10^{(\text{Max power (dBm)}/10)}$$

Conclusion:

Both of the WLAN 2.4GHz and WWAN can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WWAN = $0.056/1 + 0.087/0.54 = 0.217$

Therefore the maximum calculations of above situations are less than the “1” limit.

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