

FCC RF EXPOSURE REPORT

FCC ID: XRSTIMOMWAN301

Project No. : 2106C127
Equipment : SRD device for operation in the 2.45GHz band
Brand Name : LumenRadio
Test Model : MWA-N3
Series Model : N/A
Applicant : LumenRadio AB
Address : Svangatan 2B, Gothenburg, Sweden, SE41668
Manufacturer : LumenRadio AB
Address : Svangatan 2B, Gothenburg, Sweden, SE41668
Factory : OrbitOne
Address : Fridhemsvägen 15 SE-372 38 Ronneby Sweden
Date of Receipt : Jun. 17, 2021
Date of Test : Jun. 21, 2021 ~ Nov. 16, 2021
Issued Date : Jan. 29, 2022
Report Version : R01
Test Sample : Engineering Sample No.: DG202110278
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

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



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TESTING CERT #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Dec. 20, 2021
R01	Updated the address of applicant and manufacturer.	Jan. 29, 2022

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2. 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:

Ant.	Brand / Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1		N/A	Dipole	RP-TNC	2.15
1		2450AT18B100	Chip	N/A	0.50
1	Foshan Lanbowan Communications Ltd.	ANT2400Q5P	Dipole	RP-SMA or RP-TNC	5.00

Note:

- 1) Smart antenna system with three transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.
- 2) The antenna gain is provided by the manufacturer.

3. TEST RESULTS

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
5.00	3.1623	19.53	89.7429	0.05649	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report