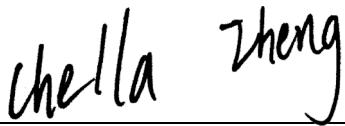


# FCC RF EXPOSURE REPORT

## 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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Approved by : Ethan Ma



TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China  
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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:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

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

Table for Filed Antenna:

Ant.	Brand / Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	 <b>lumenradio</b> Creating Connections for a Better Tomorrow	N/A	Dipole	RP-TNC	2.15
1	 <b>JOHANSON TECHNOLOGY</b>	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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	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**