FCC RF EXPOSURE REPORT

FCC ID: XRSTIMOMWAN201

Project No.	:	**1808C117A**
Equipment	:	**Radio module with 2.4GHz SRD**
Test Model	:	**Mira MWA-N2**
Series Model	:	**N/A**
Applicant	:	**LumenRadio AB**
Address	:	**Svangatan 2B, 41668 Gothenburg, Sweden**
According	:	**FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Certificate #5123.02

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 14, 2019

1. GENERAL SUMMARY

Equipment	:	Radio module with 2.4GHz SRD
Brand Name	:	Mira
Test Model	:	Mira MWA-N2
Series Model	:	N/A
Applicant	:	LumenRadio AB
Manufacturer	:	LumenRadio AB
Address	:	Svangatan 2B, 41668 Gothenburg, Sweden
Factory	:	Orbit One
Address	:	Box 170, 372 22 Ronneby, Sweden; Visiting address: Fridhemsvägen 15, 37238 Ronneby, Sweden
Date of Test	:	Apr. 25, 2019 ~ May 30, 2019
Test Sample	:	Engineering Sample No.: D190404199
Standards	:	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.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1808C117A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

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	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	3.20
2	N/A	N/A	Dipole	N/A	2.15

Note:
The EUT supports the PCB and Dipole antenna. Both Ant. 1 and Ant. 2 support transmit and receive functions, but only one of them will be used at one time.

3. TEST RESULTS

Antenna Gain (dBi)	Antenna Gain (numeric)	Max Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
3.20	2.0893	18.63	72.9458	0.03034	1	Complies

Note: the calculated distance is 20 cm.

End of Test Report