



RF EXPOSURE EVALUATION REPORT

FCC ID : 2AQ68T99B226

Equipment : LTE Small Cell

Model Name : T99B226

Applicant : HON LIN Technology Co., Ltd

11F, No.32, Jihu Rd., Neihu Dist., Taipei City, Taiwan.

Manufacturer : HON LIN Technology Co., Ltd

11F, No.32, Jihu Rd., Neihu Dist., Taipei City, Taiwan.

Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

Approved by: Cona Huang / Deputy Manager

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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Report No. : FA0O1212

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History of this test report

Report No.: FA0O1212

	Description	Issued Date
Rev. 01	Initial issue of report	Jan. 19, 2021
	Rev. 01	Rev. 01 Initial issue of report

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1. <u>Description of Equipment Under Test (EUT)</u>

Product Feature & Specification					
EUT Type	EUT Type LTE Small Cell				
Model Name	T99B226				
FCC ID	2AQ68T99B226				
Wireless Technology and Frequency Range	LTE Band 48: 3550 MHz ~ 3700 MHz				
Mode	LTE: QPSK, 16QAM, 64QAM				
EUT Stage	Production Unit				

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Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Reviewed by: <u>Jason Wang</u> Report Producer: <u>Paula Chen</u>

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2. Maximum RF average output power among production units

Мс	de	Maximum 4Tx MIMO Average power (dBm)				
LTE	Band 48	32				

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3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
800 St.	(A) Limits for Oc	cupational/Controlled Expos	sures	W: 1111 122	
0.3-3.0	614	1.63	*(100)	6	
3.0-30	1842/	f 4.89/1	*(900/f2)	6	
30-300	61.4	0.163	1.0	6	
300-1500			f/300	6	
1500-100,000			5	6	
	(B) Limits for Gene	ral Population/Uncontrolled I	Exposure		
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/	f 2.19/1	*(180/f2)	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

The MPE was calculated at 52 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

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

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

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4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 52cm (mW/cm^2)	Limit (mW/cm^2)
LTE Band 48	3550	13.20	32.00	45.2	33.11	33113.11	0.975	1.000

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Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

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