TEST REPORT

Report Reference. No.: 80260100101001

Report Reference No.....:	80260100101001	
Sample ID.....:	BLC-01-0946117-002	
Date of issue.....:	03/07/2026	
Total number of pages.....:	6	
Testing Laboratory.....:	TUV SUD South Asia Pvt Ltd	
Address.....:	Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru, Bengaluru North Taluk | Pin code – 562149 India	
Applicant's name .....:	Exicom Tele-Systems Limited	
Address.....:	3rd Floor, Plot No 38, Sector 32, Gurugram, Haryana 122001 India	
Client Representative…… ....:	Surya Kant Singh	
Test specification Standard……:	RF Exposure Report FCC 47 CFR 1.1310	
Test Method.....:	FCC KDB 447498 D01	
Non-standard test method…… :	NA	
Test Report Form Number……:	LAB_F(EE)_138-049	
Product Name……..……:	EV AC Charger	
Test Item Description……:	Electric Vehicle Supply Equipment	
Manufacturer ……..……:	Exicom Tele-Systems Limited	
Model Number…...……...:	SpinAirUL11K240-NT48-W	
Serial Number……...:	HE531296#D32210417040844	
Ratings…...…….……...:	208/240 VAC, 60 Hz	
FCC ID…….:	2BUQR-SPINAIR-W	
Prepared by (Name + Signature) .....:	Nikhil G	
Reviewed & Approved by (Name + Signature) .....:	Ayazahmad N	

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Report Reference. No.: 80260100101001

CONTENTS

1 TEST SUMMARY 3

2 EQUIPMENT INFORMATION 4

2.1 PRODUCT FUNCTION 4
2.2 GENERAL INFORMATION OF EUT 4

3 RF EXPOSURE EVALUATION METHOD 5

3.1 SCOPE 5
3.2 RF EXPOSURE LIMITS 5
3.3 RF EXPOSURE EVALUATION METHOD 5

4 RESULTS SUMMARY 6

5 CONCLUSION 6

1 TEST SUMMARY

Sl.no	Protocol, Band (MHz)	Basic Standard	Result
		FCC	
1.	BLE (2402MHz – 2483.5MHz)	FCC 47 CFR 1.1310 FCC KDB 447498 D01	PASS
2.	Wi-Fi 2.4GHz (2412MHz – 2462MHz)	FCC 47 CFR 1.1310, FCC KDB 447498 D01	PASS

2 EQUIPMENT INFORMATION

2.1 Product Function

The SPIN Air, as well as its various models and configurations. It provides essential guidance for the following activities:
Installation of the charger
Operation of the charger
Performing fundamental maintenance procedures

2.2 General Information of EUT

Table 1: EUT details as declared by client*

EUT Name	EV AC Charger		
Model	SpinAirUL11K240-1T48-W		
Serial Number	HE531296#D32210417040844		
Protocol	Bluetooth Low Energy		Wi-Fi 2.4GHz
Operating Frequency Range	2402MHz-2480MHz		2412MHz to 2462MHz
Channel Spacing	2MHz		5MHz
No. of Channels	40		11
Environmental conditions	Storage	-58°F to +158°F (-30°C to +50°C)	
	Operating	-22°F to +122°F (-30°C to +50°C)	
Supply Voltage	208/240 VAC with 60 Hz		
Maximum Measured Power (dBm)	6.58dBm 2440 (MHz)@2Mbps		21.68dBm 2412 (MHz) @g Mode_6Mbps
Modulation	GFSK		802.11b: DSSS, 802.11g/n: OFDM, 802.11ax: OFDMA
Number of antennas	1		1
Antenna Type	PCB Chip Antenna		PCB Chip Antenna
Antenna Gain	-1.8 dBi		-1.8 dBi
EUT Dimension (LxWxH)	246mm x 246mm x 133mm		

***Disclaimer:** The TÜV SÜD is not responsible for the accuracy of the customer declared specification.

3 RF EXPOSURE EVALUATION METHOD

3.1 Scope

This section documents the RF exposure evaluation of the Equipment Under Test (EUT) to demonstrate compliance with the applicable Maximum Permissible Exposure (MPE) requirements of FCC 47 CFR §1.1310, FCC 47 CFR §2.1091.

The EUT is intended for operation with a minimum separation distance greater than 20 cm between the antenna and the human body. Therefore, RF exposure compliance is evaluated using power density–based MPE limits, and Specific Absorption Rate (SAR) evaluation is not required.

3.2 RF Exposure Limits

3.2.1 FCC RF Exposure Limits

According to FCC 47 CFR §1.1310, the Maximum Permissible Exposure limits for RF electromagnetic fields are defined as follows.

Table 1: FCC Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Exposure Environment	Power Density Limit (mW/cm²)
300 – 1500	General Population / Uncontrolled	F / 1500
1500 – 100000	General Population / Uncontrolled	1
300 – 1500	Occupational / Controlled	F / 300
1500 – 100000	Occupational / Controlled	5

Where:

F = Frequency in MHz

3.3 RF Exposure Evaluation Method

RF exposure levels are calculated using the Friis transmission formula, assuming free-space propagation and maximum antenna gain. This method is conservative and represents a worst-case RF exposure scenario.

$$P_d = \frac{P_{\text{out}} \times G}{4\pi r^2}$$

Where:

- P_d= Power density (mW/cm²)
- P_{out}= Maximum output power delivered to the antenna (mW)
- G= Antenna gain (linear scale)
- r= Separation distance between the antenna and the observation point (cm)

Report Reference. No.: 80260100101001

Test Results:

Protocol: Bluetooth Low Energy

Antenna Gain: -1.8 dBi

Gain in Linear: 0.66069345

Frequency (MHz)	Max. e.i.r.p power (dBm)	Tune up value	Max.Power Including Tune-up Tolerance (dBm)	Max.Power Including Tune-up Tolerance (mW)	Minimum test separation distance (cm)	Calculated Power Density (mW/cm²)	FCC Limit (mW/cm²)
2440	6.58	1	7.58	5.72796031	20	0.000752886	1

Calculation:

Pd= (5.72796031*0.66069345) / ((4) * (3.1416) * (20)²)

Pd= 0.000752886 mW/cm²

Protocol: Wi-Fi 2.4GHz

Antenna Gain: -1.8 dBi

Gain in Linear: 0.66069345

Frequency (MHz)	Max. e.i.r.p power (dBm)	Tune up value	Max.Power Including Tune-up Tolerance (dBm)	Max.Power Including Tune-up Tolerance (mW)	Minimum test separation distance (cm)	Calculated Power Density (mW/cm²)	FCC Limit (mW/cm²)
2412	21.68	1	22.68	185.3531623	20	0.024362908	1

Calculation:

Pd= (185.3531623*0.66069345) / ((4) * (3.1416) * (20)²)

Pd= 0.024362908 mW/cm²

4 RESULTS SUMMARY

Based on the RF exposure evaluation performed in accordance with FCC 47 CFR §1.1310, the Wi-Fi 2.4 GHz and BLE 2.4GHz transmitter of the EUT was assessed using the Maximum Permissible Exposure (MPE) method.

The calculated RF exposure level at a minimum separation distance of 20 cm is BLE 0.001806 mW/cm² and Wi-Fi 0.05844 mW/cm², which is below the FCC general population exposure limit of 1.0 mW/cm²

5 CONCLUSION

Based on the MPE evaluation and the specified operating conditions with a separation distance greater than 20 cm, the device is considered RF exposure compliant for general population / uncontrolled use.

Note: The above calculation is within the limit
Therefore, SAR evaluation is not required, and the device complies with the applicable RF exposure requirements

----------**End of Report**----------