

RF EXPOSURE EVALUATION REPORT

FCC ID : 2AW3A-1NAC21ACUCM
Equipment : EV Charger
Brand Name : RIVIAN
Model Name : PT0057322
(PT00340197, PT00261633, PT00401761, 1NAC21ACUCM)
Marketing Name : RIVIAN WAYPOINTS CHARGER
RIVIAN FLEET AC DISPENSER
Applicant : Rivian Automotive LLC.
14600 Myford Road, Irvine CA 92606
Manufacturer : Lite-On Technology Corporation
22F., No. 392, Ruey Kuang Road, Neihu District, Taipei
City 114, Taiwan (R.O.C.)
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

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Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA230116-01	Rev. 01	Initial issue of report	Jun. 11, 2025

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	EV Charger
Brand Name	RIVIAN
Model Name	PT0057322 (PT00340197, PT00261633, PT00401761, 1NAC21ACUCM)
Marketing Name	RIVIAN WAYPOINTS CHARGER RIVIAN FLEET AC DISPENSER
FCC ID	2AW3A-1NAC21ACUCM
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 25: 1850 MHz ~ 1915 MHz WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz
Mode	GSM/GPRS LTE: QPSK, 16QAM WLAN: 802.11b/g/n HT20 Bluetooth LE NFC: ASK
HW Version	1
EUT Stage	Production Unit

Reviewed by: Jason Wang**Report Producer: Carlie Tsai**

2. Maximum RF average output power among production units

<WWAN>

Mode		Maximum Average power(dBm)
GSM	850	32.50
	1900	30.00
LTE (Cat M1)	Band 2	23.50
	Band 4	23.00
	Band 5	23.00
	Band 12	23.00
	Band 13	23.50
	Band 25	24.00
LTE (NB-IOT)	Band 2	23.50
	Band 4	24.00
	Band 5	23.50
	Band 12	23.50
	Band 13	23.00
	Band 25	24.50

<WLAN>

Mode		Tune-up Limit
2.4GHz WLAN	802.11b	18.00
	802.11g	21.00
	802.11n-HT20	21.00

<Bluetooth>

Mode	Tune-up Limit	
	LE	
	1Mbps	2Mbps
Bluetooth	-3.5	-8.5

<NFC>

Mode	Maximum EIRP power(dBm)
NFC	-42.70

Remark:

The NFC max power is less than 1mW and exclusion from testing.

3. RF Exposure Exemption Thresholds

According to Part 1.1307b, Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = ERP_{20cm} (d / 20)^x \text{ for distance } d \leq 20cm$$

$$P_{th} \text{ (mW)} = ERP_{20cm} \text{ for distance } 20cm < d \leq 40cm$$

$$x = -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right)$$

ERP _{20cm} (mW)	0.3 GHz ≤ f < 1.5 GHz:	2040 f
	1.5 GHz ≤ f ≤ 6 GHz:	3060

4. Radio Frequency Radiation Exposure Evaluation

4.1. RF Exposure evaluation

Band		Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Maximum EIRP (dBm)	Maximum ERP (dBm)	Maximum EIRP (mW)	Maximum ERP (mW)	Pth	Pth (mW)	option(b) Threshold (mW)	option(b) P/Pth
GSM/GPRS 850 (1 Tx slot)		2.90	32.50	26.4	24.25	436.52	266.07	23.50	223.87	1681.368	0.1331
GSM/GPRS 1900 (1 Tx slot)		3.20	30.00	24.2	22.05	263.03	160.32	21.00	125.89	3060.000	0.0411
LTE (Cat M1)	LTE Band 2	3.20	23.50	26.7	24.55	467.74	285.10	24.55	285.10	3060.000	0.0932
	LTE Band 4	2.90	23.00	25.9	23.75	389.05	237.14	23.75	237.14	3060.000	0.0775
	LTE Band 5	2.90	23.00	25.9	23.75	389.05	237.14	23.75	237.14	1680.960	0.1411
	LTE Band 12	3.90	23.00	26.9	24.75	489.78	298.54	24.75	298.54	1425.960	0.2094
	LTE Band 13	2.80	23.50	26.3	24.15	426.58	260.02	24.15	260.02	1585.080	0.1640
	LTE Band 25	3.20	24.00	27.2	25.05	524.81	319.89	25.05	319.89	3060.000	0.1045
LTE (NB-IOT)	LTE Band 2	3.20	23.50	26.7	24.55	467.74	285.10	24.55	285.10	3060.000	0.0932
	LTE Band 4	2.90	24.00	26.9	24.75	489.78	298.54	24.75	298.54	3060.000	0.0976
	LTE Band 5	2.90	23.50	26.4	24.25	436.52	266.07	24.25	266.07	1680.960	0.1583
	LTE Band 12	3.90	23.50	27.4	25.25	549.54	334.97	25.25	334.97	1425.960	0.2349
	LTE Band 13	2.80	23.00	25.8	23.65	380.19	231.74	23.65	231.74	1585.080	0.1462
	LTE Band 25	3.20	24.50	27.7	25.55	588.84	358.92	25.55	358.92	3060.000	0.1173
WLAN2.4GHz Band		2.20	21.00	23.2	21.05	208.93	127.35	21.05	127.35	3060.000	0.0416
Bluetooth		0.50	-3.50	-3.0	-5.15	0.50	0.31	-3.50	0.45	3060.000	0.0001

4.2. Sim-Tx analysis

WWAN P/Pth Ratio	WLAN 2.4GHz P/Pth Ratio	Bluetooth P/Pth Ratio	Σ (P/Pth Ratio) of WWAN + WLAN 2.4GHz + Bluetooth
0.2349	0.0416	0.0001	0.2766

Note:

- According part1.1307b, the P/Pth Ratio is using for Sim-Tx analysis, above table was showing WWAN transmitting with WLAN and Bluetooth and the summation ratio is smaller than 1.

Conclusion:

According to 47 CFR §1.1307, the RF exposure analysis concludes that the RF Exposure is FCC compliant.