



MPE Report

Report No.: STS2604326H01

Issued for

Radxa Computer (Shenzhen) Co., Ltd.

1602, Block B, FengHuang Zhigu Building, No.50 Tiezai
Road, Xixiang, Baoan, Shenzhen, 518102, China

Product Name: Radxa ROCK 5T

Brand Name: **radxa**[®]

Model Name: Radxa ROCK 5T D32E256

Series Model(s): More models Ref. the 1.1

FCC ID: 2BC6T-D16E128

Test Standard: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Radxa Computer (Shenzhen) Co., Ltd.
Address: 1602, Block B, FengHuang Zhigu Building, No.50 Tiezai Road,
Xixiang, Baoan, Shenzhen, 518102, China
Manufacturer's Name.....: Radxa Computer (Shenzhen) Co., Ltd.
Address: 1602, Block B, FengHuang Zhigu Building, No.50 Tiezai Road,
Xixiang, Baoan, Shenzhen, 518102, China

Product Description

Product Name.....: Radxa ROCK 5T
Brand Name: **radxa**[®]
Model Name: Radxa ROCK 5T D32E256
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Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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Date of Test

Date of receipt of test item.....: 8 Apr. 2026
Date (s) of performance of tests: 8 Apr. 2026 ~ 21 May. 2026
Date of Issue.....: 21 May. 2026
Test Result.....: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1 GENERAL DESCRIPTION OF THE EUT	5
1.2 TEST FACTORY	6
2. FCC 47CFR §2.1091 REQUIREMENT	7
2.1 TEST STANDARDS	7
2.2 LIMIT	7
2.3 TEST RESULT	8



Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	21 May. 2026	STS2604326H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Radxa ROCK 5T	
Brand Name		
Model Name	Radxa ROCK 5T D32E256	
Series Model(s)	Radxa ROCK 5T D4E0, Radxa ROCK 5T D4E16, Radxa ROCK 5T D4E32, Radxa ROCK 5T D4E64, Radxa ROCK 5T D4E128, Radxa ROCK 5T D4E256, Radxa ROCK 5T D8E0, Radxa ROCK 5T D8E16, Radxa ROCK 5T D8E32, Radxa ROCK 5T D8E64, Radxa ROCK 5T D8E128, Radxa ROCK 5T D8E256, Radxa ROCK 5T D16E0, Radxa ROCK 5T D16E16, Radxa ROCK 5T D16E32, Radxa ROCK 5T D16E64, Radxa ROCK 5T D16E128, Radxa ROCK 5T D16E256, Radxa ROCK 5T D24E0, Radxa ROCK 5T D24E16, Radxa ROCK 5T D24E32, Radxa ROCK 5T D24E64, Radxa ROCK 5T D24E128, Radxa ROCK 5T D24E256, Radxa ROCK 5T D32E0, Radxa ROCK 5T D32E16, Radxa ROCK 5T D32E32, Radxa ROCK 5T D32E64, Radxa ROCK 5T D32E128	
Model Difference	All the model are the same circuit and RF module, except model names, RAM and eMMC capacity.	
Product Description	The EUT is a Radxa ROCK 5T	
	Operation Frequency:	2402~2480 MHz 802.11b/g/n/ax 20: 2412~2462 MHz 802.11n/ax40:2422~2452MHz IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40)/ax(HE40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80) /ax(HE80): 5.210GHz IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.745GHz-5.825GHz IEEE 802.11a/ n(HT40)/ac(VHT40)/ax(HE40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80)/ax(HE80): 5.775GHz



	Modulation Type:	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8DPSK(3Mbps) GFSK(1Mbps, 2Mbps) 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM 802.11b/g Support SISO 802.11n/ax Support MIMO 802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM 802.11a Support SISO 802.11n/ac/ax Support MIMO
	Antenna gain:	BT/BLE: 2.1 dBi WLAN 2.4GHz Antenna A&B: 2.1 dBi WLAN 5.1GHz Antenna A&B: 1.93 dBi WLAN 5.8GHz Antenna A&B: 1.88 dBi
	Antenna Designation:	FPC Antenna*2
Power Rating	DC 12V	
Adapter	N/A	
Battery	N/A	
Hardware Version	N/A	
Software Version	N/A	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Tune up

Mode	Tune up Power
BT	6±1dBm
BLE	5±1dBm
2.4G WIFI	14±1dBm
5.1G WIFI	15±1dBm
5.8G WIFI	15±1dBm

Protocol	Fre. (GHz)	Separation distance (cm)	Max Tune up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BT	2.402	20	7	2.1	9.10	8.128	0.0016	1	0.0016	Pass
BLE	2.402	20	6	2.1	8.10	6.457	0.0013	1	0.0013	Pass
2.4G WIFI	2.412	20	15	2.1	17.10	51.286	0.0102	1	0.0102	Pass
5.1G WIFI	5.18	20	16	1.93	17.93	62.087	0.0124	1	0.0124	Pass
5.8G WIFI	5.745	20	16	1.88	17.88	61.376	0.0122	1	0.0097	Pass

Multiple transmission:

Bluetooth +WIFI=0.0016+0.0124=0.014<1

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. Only the maximum power was evaluated.

*****END OF THE REPORT*****