



MPE Report

Report No.: STS2601009H02

Issued for

TRULY ELECTRONICS MFG., LTD

Truly industry city, shanwei Guangdong, P.R.C

Product Name: WIFI/BT Module+5G/6G

Brand Name: N/A

Model Name: TR7R922P2-M

Series Model(s): TR7R922P3-M

FCC ID: 2BOHY-922P2-M

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.....: TRULY ELECTRONICS MFG., LTD
Address: Truly industry city, shanwei Guangdong, P.R.C
Manufacturer's Name.....: TRULY ELECTRONICS MFG., LTD
Address: Truly industry city, shanwei Guangdong, P.R.C

Product Description

Product Name.....: WIFI/BT Module+5G/6G

Brand Name: N/A

Model Name: TR7R922P2-M

Series Model(s).....: TR7R922P3-M

Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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.

Date of Test:

Date of receipt of test item.....: 05 Jan. 2026

Date (s) of performance of tests: 05 Jan. 2026 ~ 12 Feb. 2026

Date of Issue.....: 12 Feb. 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	7
2. FCC 47CFR § 2.1091 REQUIREMENT	8
2.1 TEST STANDARDS	8
2.2 LIMIT	8
2.3 TEST RESULT	9

**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	12 Feb. 2026	STS2601009H02	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	WIFI/BT Module+5G/6G
Brand Name	N/A
Model Name	TR7R922P2-M
Series Model(s)	TR7R922P3-M
Model Difference	Only different in model name
Operation Frequency	BT / BLE: 2402~2480 MHz 2.4G RLAN: 802.11b/g/n/ax/be(20MHz): 2412~2462MHz 802.11n/ax/be(40MHz):2422~2452MHz 5.2G RLAN: IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80) /ax(HE80)/be(EHT80): 5.210GHz 5.3G RLAN: IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40): 5.270GHz-5.310GHz IEEE 802.11ac(VHT80)/ax(HE80)/be(EHT80): 5.290GHz IEEE 802.11ac(VHT160) /ax(HE160)/be(EHT160): 5.250GHz 5.6G RLAN: IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40): 5.510GHz-5.670GHz IEEE 802.11ac(VHT80)/ax(HE80)/be(EHT80): 5.530GHz-5.610GHz IEEE 802.11ac(VHT160)/ax(HE160)/be(EHT160): 5.570GHz 5.8G RLAN: IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 5.745GHz-5.825GHz IEEE 802.11a/ n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80)/ax(HE80)/be(EHT80): 5.775GHz 6G WIFI: UNII-5 Band: 5925-6425MHz UNII-6 Band: 6425-6525MHz UNII-7 Band: 6525-6875MHz UNII-8 Band: 6875-7125MHz
Modulation Type:	BT: BT BR(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK BLE: GFSK 2.4G RLAN: 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 802.11be(OFDM, OFDMA):BPSK,QPSK, 16-QAM,64-QAM,256-QAM,1024QAM, 4096QAM 5G RLAN: 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 802.11be(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM,4096QAM 6G WIFI: 802.11be(OFDM,OFDMA):BPSK,QPSK, 16-QAM,64-QAM,256-QAM,1024QAM, 4096QAM
Antenna gain:	BT / BLE: 2.5dBi 2.4G RLAN / 5G RLAN: ANT 1: 2.5dBi, ANT 2: 2.5dBi, MIMO:5.51dBi 6G WIFI: ANT 1: 1dBi, ANT 2: 1dBi, MIMO:4.01dBi
Antenna Designation:	Dipole
Power Rating	Input: DC3.3V
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

RF Function	Tune Up Power (dBm)	Tune Up Power (dBm)
BT	0±1	1.00
BLE	2±1	3.00
2.4G WLAN	19±1	20.00
5G RLAN	16±1	17.00
WIFI 6E	12±1	13.00

RF Function	Frequency (MHz)	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	2402	20	1.00	2.5	3.50	2.239	0.0004	1	0.0004	Pass
BLE	2402	20	3.00	2.5	5.50	3.548	0.0007	1	0.0007	Pass
2.4G WLAN	2462	20	20.00	2.5	22.50	177.828	0.0354	1	0.0354	Pass
5G RLAN	5580	20	17.00	2.5	19.50	89.125	0.0177	1	0.0177	Pass
WIFI 6E	6825	20	13	4.01	17.01	50.234	0.0100	1	0.0100	Pass

Multiple transmission:

$$2.4G\ WLAN + 5G\ RLAN + WIFI\ 6E = 0.0354 + 0.0177 + 0.0100 = 0.0631 < 1$$

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

$$2. ERP = EIRP - 2.15$$

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