MPE Report

Report No.:STS2510210H01

Issued for

HONG KONG ZHENLONG TECHNOLOGY CO., LIMITED

WORKSHOP19, FLAT B, 19/F GOODWILL INDUSTRIAL BLDG, 36-44 PAK TIN PAR STREET, TSUEN WAN, NT, HONG KONG

Product Name:	Voice amplifier
Brand Name:	Rienok
Model Name:	S17
Series Model(s):	N/A
FCC ID:	2BTSA-S17
Test Standards:	FCC 47CFR §2.1093

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.....: HONG KONG ZHENLONG TECHNOLOGY CO., LIMITED
Address .....: WORKSHOP19, FLAT B, 19/F GOODWILL INDUSTRIAL BLDG, 36-44 PAK TIN PAR STREET, TSUEN WAN, NT, HONG KONG
Manufacturer's Name.....: HONG KONG ZHENLONG TECHNOLOGY CO., LIMITED
Address .....: WORKSHOP19, FLAT B, 19/F GOODWILL INDUSTRIAL BLDG, 36-44 PAK TIN PAR STREET, TSUEN WAN, NT, HONG KONG

Product Description

Product Name.....: Voice amplifier
Brand Name .....: Rienok
Model Name .....: S17
Series Model(s).....: N/A
Test Standards .....: FCC 47CFR §2.1093
447498 D04 Interim General RF Exposure Guidance v01

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Date of Test .....:
Date of receipt of test item.....: 31 Oct. 2025
Date (s) of performance of tests.....: 31 Oct. 2025 ~ 25 Dec. 2025
Date of Issue.....: 25 Dec. 2025
Test Result.....: **Pass**

Testing Engineer : Aaron Bu
(Aaron Bu)

Technical Manager : Skylar. Li
(Skylar Li)

Authorized Signatory : Bovey Yang
(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

TABLE OF CONTENTS

1. GENERAL INFORMATION **5**
1.1 GENERAL DESCRIPTION OF THE EUT 5
1.2 TEST FACTORY 5
2. FCC 47CFR §2.1093 REQUIREMENT **6**
2.1 TEST STANDARDS 6
2.2 LIMIT 6
2.3 TEST RESULT 9

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	25 Dec. 2025	STS2510210H01	ALL	Initial Issue

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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Voice amplifier
Brand Name	Rienok
Model Name	S17
Series Model(s)	N/A
Model Difference	N/A
Product Description	The EUT is Voice amplifier Operation Frequency: 2402 – 2480 MHz Modulation Type: BT BR(1Mbps): GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8DPSK Antenna gain: 3.94dBi Antenna Designation: FPC
Power Rating	Input: DC5V 3A
Adapter	N/A
Battery	Model: HYY0005337 Brand: N/A Rated Voltage: 7.4V Charge Limit Voltage: 8.4V Capacity: 8700mAh
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 §2.1093 REQUIREMENT

2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) 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:

$$P_{th}\ (\text{mW}) = \begin{cases} ERP_{20\ cm}(d/20\ \text{cm})^x & d \le 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

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(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least λ/2π, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ/4 or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a}\frac{P_i}{P_{th,i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{th,j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k}\leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.

2.3 TEST RESULT

Tune up

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-1.89	-0.21	0.78
Tune up ±(dBm)	-2±1	-1±1	0±1
π/4DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-0.97	0.74	1.7
Tune up ±(dBm)	-1±1	0±1	1±1
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-0.56	1.08	2.09
Tune up ±(dBm)	-1±1	1±1	1.5±1

RF Function	Frequency (GHz)	Separation distance (cm)	Tune Up Power (dBm)	ANT Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Ratio	Result
Channel	2.48	0.5	2.5	3.94	6.44	4.29	2.685	2.717	0.988	Pass

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

2. ERP = EIRP - 2.15

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