

EMC-TRF-03 Rev 1.1 Report No.: GZCR240500044403

Page: 1 of 10 FCC ID: OWWF110725S

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2405000444AT

Applicant: Shenzhen Huaptec Co., Ltd

Address of Applicant:

3rd FL, E BLDG, Sogood Science Park, SanWei Community, Hangcheng

Street, Bao'an District, Shenzhen, China

Manufacturer: Shenzhen Huaptec Co., Ltd

Address of Manufacturer: 3rd FL, E BLDG, Sogood Science Park, SanWei Community, Hangcheng

Street, Bao'an District, Shenzhen, China

Factory: Shenzhen Huaptec Co., Ltd

Address of Factory:

3rd FL, E BLDG, Sogood Science Park, SanWei Community, Hangcheng

Street, Bao'an District, Shenzhen, China

Product Name: Zorida Ace 5S

Model No.: F05GZ-5S-BT, F05GZ-5S-BT.Pro, F05GB-5S-BT, F05GB-5S-BT.Pro ♣

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: Zorida

Standard(s): 47 CFR Part 2.1091

47 CFR Part 1.1310, Part 1.1307

Date of Receipt:2024-05-08Date of Evaluation:2024-06-17Date of Issue:2024-06-18

Test Result: Pass*

中国・广东・广州高新技术产业开发区科学城科珠路198号

Ricky Liu Manager

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record								
Version	Chapter	Date	Remark						
01	GZCR240500044403	2024-06-18	Original						

Authorized for issue by:		
	Kevin Zhang	
	Kevin Zhang/Project Engineer	
	Jery Chen	
	Jerry Chan/Reviewer	



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2 Evaluation Summary

ltem	Standard	Requirement	Method	Result
RF Exposure	47 CFR Part 2.1091 47 CFR Part 1.1310 47 CFR Part 1.1307	47 CFR Part 1.1310	47 CFR Part 1.1310	PASS

Note:

E.U.T./ EUT means Equipment Under Test

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

♣ Declaration of EUT Family Grouping:

Model No.: F05GZ-5S-BT, F05GZ-5S-BT.Pro, F05GB-5S-BT, F05GB-5S-BT.Pro

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only differences on Model No., outer shell and antenna kitting. Details as below.

Model No.	Outer Shell Antenna Kitting	
F05GZ-5S-BT	Shell 1	Antenna Kitting 1
F05GZ-5S-BT.Pro	Shell 1	Antenna Kitting 2
F05GB-5S-BT	Shell 2	Antenna Kitting 1
F05GB-5S-BT.Pro	Shell 2	Antenna Kitting 2

Antenna Kitting Information:

Antenna Kitting		Model	Antenna Gain a	nd Cable loss	Remark		
	las pariadia antanna	000012020	698-849MHz	8dBi	Outdoor antonno		
	log-periodic antenna	080012030	1710-1915MHz	9dBi	Outdoor antenna		
	Whip optoppo	I0W-0727-2SM1	728-894MHz	1.5dBi	Indoor antenna		
1	Whip antenna	1000-0727-251011	1930-2155MHz	2.5dBi			
	Cooxial apple (15m)	3D ED	600-2000MHz	8.4dB	For outdoor upo		
	Coaxial-cable (15m)	3D-FB	2000-2500MHz	9.1dB	For outdoor use		
	Note: Whip antenna directly connects to indoor port of the EUT without coaxial-cable.						
	log-periodic antenna	080012030	698-849MHz	8dBi	Outdoor antenna Indoor antenna		
			1710-1915MHz	9dBi			
	Panel antenna	080011023	728-894MHz	8dBi			
2			1930-2155MHz	9dBi			
-	Cooviel coble (15m)	3D-FB	600-2000MHz	8.4dB	For outdoor upo		
	Coaxial-cable (15m)		2000-2500MHz	9.1dB	For outdoor use		
	Coovial cable (6m)	3D-FB	600-2000MHz	3.8dB	Eor indoor upo		
	Coaxial-cable (6m)	3D-LD	2000-2500MHz	4.5dB	For indoor use		

Therefore, only one mode **F05GZ-5S-BT.Pro** was tested in this report.



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General Information

4.1 Details of E.U.T.

Power Supply: AC 100-240V, 50/60Hz by AC/DC adapter

> Model: RJ23-W120150US Input: 100-240V, 50/60Hz 0.8A

Output: 12V--1.5A

Test Voltage: **AC 120V**

Cable: DC output cable (unshielded, 2m)

-25 to +55 °C Operating Temperature:

Operating Frequency: Uplink: 698MHz to 716MHz Lower 700MHz

Downlink: 728MHz to 746MHz

Uplink: 776MHz to 787MHz

Upper 700MHz Downlink: 746MHz to 757MHz

Uplink: 824MHz to 849MHz Cellular

Downlink: 869MHz to 894MHz

Uplink: 1710MHz to 1755MHz AWS-1

Downlink: 2110MHz to 2155MHz

1850MHz to 1910MHz Uplink: **Broadband PCS**

Downlink: 1930MHz to 1990MHz

Interface: RF Port: 2 (N-F)

> Power Jack: 1

≥17dBm **Output Power:** Uplink: (Conducted) Downlink: ≤11dBm ≤72dB Max. Gain: Uplink: ≤72dB Downlink:

Antenna Type: External Dedicated Antenna

Antenna Gain: Refer to clause 2 in this report

F05GZ-5S-BT V1.0 Software Version:

Fixed Consumer Signal Booster Booster Type:

Refer to Bluetooth Module FCC ID: 2ATPO-PB03 Bluetooth:

The information in this section is provided by the applicant or Remark:

manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and

integrity of the information.



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4.2 Evaluation Location

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 **RF Exposure**

5.1 Requirement

In accordance with 47 CFR FCC Part 2.1091, this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

According to 47 CFR FCC Part 1310, the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b).

TABLE 1 TO §1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.34-30 824/f 2.19/f *(180/f²)	equency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
3.0-30	(i) Limits for Occupational/Controlled Exposure								
30-300 61.4 0.163 1.0 300-1,500 f/300 1,500-100,000 5 (ii) Limits for General Population/Uncontrolled Exposure 0.3-1.34 614 1.63 *(100) 1.34-30 824/f 2.19/f *(180/f²)	3-3.0	614	1.63	*(100)	≤6				
300-1,500 f/300 1,500-100,000 5 (ii) Limits for General Population/Uncontrolled Exposure 0.3-1.34 614 1.63 *(100) 1.34-30 824/f 2.19/f *(180/f²)	3.0-30	1842/f	4.89/f	*(900/f²)	<6				
1,500-100,000 5 (ii) Limits for General Population/Uncontrolled Exposure 0.3-1.34 614 1.63 *(100) 1.34-30 824/f 2.19/f *(180/f²)	30-300	61.4	0.163	1.0	<6				
(ii) Limits for General Population/Uncontrolled Exposure 0.3-1.34 614 1.63 *(100) 1.34-30 824/f 2.19/f *(180/f²)	0-1,500			f/300	<6				
0.3-1.34 614 1.63 *(100) 1.34-30 824/f 2.19/f *(180/f²)	0-100,000			5	<6				
1.34-30 824/f 2.19/f *(180/f²)	(ii) Limits for General Population/Uncontrolled Exposure								
	.3-1.34	614	1.63	*(100)	<30				
30-300 27.5 0.073 0.2	.34-30	824/f	2.19/f	*(180/f²)	<30				
0.070 0.2	30-300	27.5	0.073	0.2	<30				
300-1,500 f/1500	0-1,500			f/1500	<30				
1,500-100,000	0-100,000			1.0	<30				

5.2 Method

According to IEEE C95.3:2002 section 5.5.1.1, the power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula:

$$S = power density (mW/cm2)$$

$$P = the net power delivered to the antenna (mW)$$

$$G = gain of the antenna in linear scale$$

$$G = distance between else viction point and contri$$

d = distance between observation point and center of the radiator (cm)

From the maximum EUT RF output power, as well as the gain of the used antenna, according toe the RF power density limit stated in above table, the mimimum distance between the antenna and human body will be calculated.



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5.3 Conclusion

Normal use condition for Distance between antenna and body:

>=20cm declared by the manufacturer, the worst case 20cm

used for exposure calculation.

Antenna Gain: Antenna Kitting will be used with the EUT and refer to clause

2 for the detailed Antenna Kitting information.

The evaluations were performed using all antenna kittings and

only recorded the worst-case (using antenna kitting 2). For antenna Kitting, the Gain shall be calculated as follows:

Gain=antenna gain- cable loss

Power delivered to the antenna: The max. tune up tolerance power declared by the

manufacturer.

RF exposure evaluation for UL and

DL simultaneous emission

The cable length for donor antenna to booster is 15m as per the manufacturer request and The donor antenna and service antenna must maintain sufficient distance to ensure isolation.

otherwise the EUT will be shut down due to oscillation. So the exposure evaluation only concerned the UL and DL single transmission in this report even if the product UL and

DL simultaneous emission during operation.

For DL

Band	Antenna Gain (Numeric)	Max. tune up tolerance power (dBm)	Power Density (mW/cm²)	Limit of Power Density (mW/cm²)	Result
700MHz	2.63	11	0.0066	0.4853	Complies
Cellular	2.63	11	0.0066	0.5793	Complies
AWS-1	2.818	11	0.0071	1	Complies
Broadband PCS	3.311	11	0.0083	1	Complies

Remark:

For 700MHz band, the limit is f/1500= 728/1500= 0.4853 mW/cm² for the stringent limit. For Cellular band, the limit is f/1500= 869/1500= 0.57933 mW/cm² for the stringent limit.



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For UL

Band	Antenna Gain (Numeric)	Max. tune up tolerance power (dBm)	Power Density (mW/cm²)	Limit of Power Density (mW/cm²)	Result
Lower 700MHz	0.912	22	0.0288	0.4653	Complies
Upper 700MHz	0.912	22	0.0288	0.5173	Complies
Cellular	0.912	22	0.0288	0.5493	Complies
AWS-1	1.148	22	0.0362	1	Complies
Broadband PCS	1.148	22	0.0362	1	Complies

Remark:

For Lower 700MHz band, the limit is f/1500= 698/1500= 0.4653 mW/cm² for the stringent limit. For Lower 700MHz band, the limit is f/1500= 776/1500= 0.5173 mW/cm² for the stringent limit. For Cellular band, the limit is f/1500= 824/1500= 0.5493 mW/cm² for the stringent limit.

For Bluetooth

Band	Antenna Gain (Numeric)	Max. tune up tolerance power (dBm)	Power Density (mW/cm²)	Limit of Power Density (mW/cm²)	Result
2402- 2480MHz	1.41	8	0.0018	1	Complies
Remark: Above detailed information of Bluetooth Mudule of the EUT please refer to ECC ID: 2ATP					

For DL

all bands can simultaneous transmitting, the maximum rate of MPE is $(0.0066/0.4853) + (0.0066/0.5793) + (0.0071/1) + (0.0083/1) + (0.0018/1) = 0.0422 \le 1$

all bands can simultaneous transmitting, the maximum rate of MPE is $(0.0288/0.4653) + (0.0288/0.5173) + (0.0288/0.5493) + (0.0362/1) + (0.0362/1) + (0.0018/1) = 0.2441 \le 1$ So SAR report is not required.



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EUT Constructional Details (EUT Photos) 6

Refer to Appendix - External and Internal Photos for GZCR2405000444AT.

--Report End--



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