

EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 Page: 1 of 9 FCC ID: OU9BB-1597-G

RF EXPOSURE EVALUATION REPORT

Evaluation Result:	Pass*				
Date of Issue:	2024-07-22				
Date of Evaluation:	2024-06-20 to 2024-06-24				
Date of Receipt:	2024-06-17				
	47 CFR Part 1.1307				
	47 CFR Part 1.1310				
Standard(s) :	47 CFR Part 2.1091				
Model No.:	BB1597-G				
Product Name:	Blood Pressure monitor				
Address of Factory:	Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China				
Factory:	Guangdong Transtek Medical Electronics Co., Ltd.				
Address of Manufacturer:	Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China				
Manufacturer:	Guangdong Transtek Medical Electronics Co., Ltd.				
Address of Applicant:	Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China				
Applicant:	Guangdong Transtek Medical Electronics Co., Ltd.				
Application No.:	GZCR2406000701ME				

* In the configuration evaluated, the EUT complied with the standards specified above.

Jerry Chen

Jerry Chan Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sg.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company's under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)8307 1443.

ticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443 ccheck

Co., Ltd. No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 t (86-20) 82155555 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编:510663

sgs.china@sgs.com t (86-20) 82155555 Member of the SGS Group (SGS SA)



EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 Page: 2 of 9

Revision Record						
Version	Report No.	Date	Remark			
01	GZCR240600070103	2024-07-22	Original			

Authorized for issue by:		
	Jim Li	
	Jim Li/Project Engineer	
	Ridge Lin	
	Ricky Liu/Reviewer	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@egs.com

s Co., Ltd. No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编:510663 t (86-20) 82155555 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 3 of 9 Page:

Evaluation Summary 2

ltem	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 2.1091	47 CFR Part 2.1091	47 CEP Port 1 1310	Pass
	47 CFR Part 1.1307	47 CFR Part 1.1307	47 CFR Pail 1.1310	

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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indennification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@egs.com

s Co., Ltd., No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编:510663 t (86-20) 82155555 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 Page: 4 of 9

3 **Contents**

			Page
1	Cov	er Page	1
2	Eva	luation Summary	3
3	Con	tents	4
4	Gen	eral Information	5
	4.1	Details of E.U.T.	5
	4.2	Evaluating Location	
	4.3	Facility	6
	4.4	Deviation from Standards	6
	4.5	Abnormalities from Standard Conditions	6
5	Tec	hnical Requirements Specification	7
	5.1	RF Exposure Evaluation	7
	5.1.1	1 Requirement	7
	5.1.2	2 Method	7
	5.1.3	3 Conclusion	8
6	EUT	Constructional Details (EUT Photos)	9



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@egs.com

s Co., Ltd. No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编:510663

t (86-20) 82155555 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 Page: 5 of 9

General Information 4

4.1 Details of E.U.T.

Power supply:	Battery powered mode: DC 6V = 4 x Size "AA" batteries.
	AC adapter powered mode: 6V, 1A
	AC Adapter:
	MODEL: BLJ06L060100P-U
	INPUT: 100-240V, 50/60Hz, 0.2A Max
	OUTPUT: 6.0V, 1.0A
Cable(s):	Adapter DC output cable, 2 wires, 1.5m, unshielded.
Operation Frequency:	LTE CatM1 Band 2, 4, 12, 13, 25
Modulation Type:	QPSK, 16QAM
Antenna Type:	PIFA Antenna
	CatM1 Band 2: 0.93 dBi
	CatM1 Band 4: -0.8 dBi
Antonna Caini	CatM1 Band 12: -1.0 dBi
Antenna Gain.	CatM1 Band 13: 0.48 dBi
	CatM1 Band 25: 0.93 dBi
	(Declared by antenna specifications)
Extreme temp. Tolerance:	-30°C to +50°C
Sample Type:	Fixed device.
Remark:	The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 Tel: +86 20 82155555 No tests were sub-contracted.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: CN_Doccheck@egs.com

s Co., Ltd., No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 邮编:510663 中国・广东・广州高新技术产业开发区科学城科珠路198号

t (86-20) 82155555 sgs.china@sgs.com

t (86-20) 82155555



EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 6 of 9 Page:

4.3 Facility

The 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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: CN_Doccheck@egs.com

s Co., Ltd. No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编:510663

t (86-20) 82155555 t (86-20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 Page: 7 of 9

5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 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).

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Magnetic field strength (A/m) Power density (mW/cm ²)							
(i) Limits for Occupational/Controlled Exposure										
3-3.0 614 1.63 *(100) ≤6										
3.0-30	1842/f	4.89/f	*(900/f ²)	<6						
30-300	61.4	0.163	1.0	<6						
300-1,500			f/300	<6						
1,500-100,000			5	<6						
(ii) Limits for General Population/Uncontrolled Exposure										
0.3-1.34 614 1.63 *(100) <30										
1.34-30	824/f	2.19/f	*(180/f ²)	<30						
30-300	27.5	0.073	0.2	<30						
300-1,500			f/1500	<30						
1,500-100,000			1.0	<30						
f = frequency in MHz. * = Plane-wave equivalent power density										

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

5.1.2 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:

$$S = \frac{PG}{4\pi d^2}$$

S = power density (mW/cm²) P = the net power delivered to the antenna (mW) G = gain of the antenna in linear scale

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 minimum distance between the antenna and human body will be calculated.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior writen approval of the Company's unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Neuron of the Development and the Development and the Development and the Development (86-755) 8307 1443, Neuron Development and the Devel

s Co.,Ltd. No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 poratory. 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 Page: 8 of 9

5.1.3 Conclusion

Band	Frequency (MHz)	Distance(m)	Max tune- up tolerance power (dBm)	Max tune-up tolerance power to antenna (mW)	Ant. Gain (dBi)	Ant. Gain (Numer ic)	Power Density (S) (mW/cm²)	Limit (mW/cm²)	Result
CatM1 Band2	1850.7	0.2	22	158.5	0.93	1.24	0.0391	1.00	Pass
CatM1 Band4	1710.7	0.2	22	158.5	-0.8	0.83	0.0262	1.00	Pass
CatM1 Band12	699.7	0.2	22	158.5	-1.0	0.79	0.0250	0.47	Pass
CatM1 Band13	779.5	0.2	22	158.5	0.48	1.12	0.0352	0.52	Pass
CatM1 Band25	1850.7	0.2	22	158.5	0.93	1.24	0.0391	1.00	Pass



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@egs.com

s Co., Ltd. No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编:510663 t (86-20) 82155555 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



EMC-TRF-03 Rev 1.1

Report No.: GZCR240600070103 Page: 9 of 9

EUT Constructional Details (EUT Photos) 6

Refer to Appendix - External and Internal Photos for GZCR2403000309ME

- End of the Report -



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: CN_Doccheck@egs.com

s Co., Ltd., No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编:510663

t (86-20) 82155555 sgs.china@sgs.com

t (86-20) 82155555

Member of the SGS Group (SGS SA)