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1 Cover Page

RF Exposure Report

Application No.: FYCR2205000186ME

Applicant: Guangdong Transtek Medical Electronics Co., Ltd.

Address of Applicant: Zone A, No.105, Dongli Road, Torch Development District, 528437

Zhongshan, Guangdong, China

Manufacturer: Guangdong Transtek Medical Electronics Co., Ltd.

Address of Manufacturer: Zone A, No.105, Dongli Road, Torch Development District, 528437

Zhongshan, Guangdong, China

Factory: Guangdong Transtek Medical Electronics Co., Ltd.

Address of Factory: Zone A, No.105, Dongli Road, Torch Development District, 528437

Zhongshan, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Blood Pressure Monitor

 Model No.:
 TMB-1597-G

 FCC ID:
 OU9TMB-1597-G

Trade mark: Transtek

47 CFR Part 2.1091

Standard(s): 47 CFR Part 1.1310

47 CFR Part 1.1307

Date of Receipt: 2022-05-25

Date of Test: 2022-05-25 to 2022-06-15

Date of Issue: 2022-06-15

Test Result: Pass*

EMC Technical Manager

WinkeyWarg



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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	Modifier	Remark			
01		2022-06-15		Original			

Authorized for issue by:		
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	Tree Zhan/Project Engineer	
	WinkeyWang	
	Winkey Wang/Reviewer	



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3 General Information

3.1 Details of E.U.T.

	AC Adapter				
	Model: BLJ06L060100P-U				
Power supply:	Input: AC 100-240V, 50/60Hz, 0.2A Max				
	Output: DC 6.0V, 1.0A				
	DC 6V(4*AA Batteries)				
Test voltage:	AC 120V, 60Hz				
	Note: Both nominal AC 120V, 60Hz and AC 240 V, 60Hz are required for				
	testing in accordance with FCC KDB174176, this report only shows the				
	results of the worst test result(AC 120V, 60Hz);				
Cable(s):	DC cable:146cm unshielded				
Sample Type:	Fixed production				
CatM Band					
Operation Frequency Band:	CatM1 Band 2, 4, 12, 13, 25				
Modulation Type:	QPSK, 16QAM				
Antenna Type:	PIFA Antenna				
Antenna Gain:	CatM1 Band2: 1.97dBi, CatM1 Band4: 1.2dBi, CatM1 Band12: -2.37dBi,				
	CatM1 Band13: 0.39dBi, CatM1 Band2: 1.97dBi				



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3.2 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.3 Test Facility

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

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.





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4 Radio Spectrum Technical Requirement

4.1 RF Exposure

4.1.1 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).

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(i) Limits for Occupational/Controlled Exposure							
3-3.0	614	1.63	*(100)	≤6			
3.0-30	1842/f	4.89/f	*(900/f²)	<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 Ger	neral Population/Und	controlled Exposure				
0.3-1.34	614	1.63	*(100)	<30			
1.34-30	824/f	2.19/f	*(180/f²)	<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 Mh	dz. * = Plane-wave equi	valent power density					



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4.1.2 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:

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

 $S = power density (mW/cm^2)$

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

4.1.3 Conclusion

Туре	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=20cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
CatM Band2	1850.7	1.97	1.57	23	199.53	0.0625	1.0000	0.0625	PASS
CatM Band4	1710.7	1.2	1.32	23.5	223.87	0.0587	1.0000	0.0587	PASS
CatM Band12	699.7	-2.37	0.58	23.5	223.87	0.0258	0.4665	0.0553	PASS
CatM Band13	779.5	0.39	1.09	24	251.19	0.0547	0.5197	0.1052	PASS
CatM Band 25	1850.7	1.97	1.57	23.5	223.87	0.0701	1.0000	0.0701	PASS

4.2 EUT Constructional Details

Refer to Appendix - external and internal photos for FYCR220500186ME.

-- End of the Report--



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