

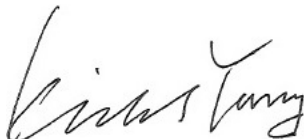
1 Cover Page

RF Exposure Report

Application No.: FYCR2204000064ME
Applicant: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Applicant: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China
Manufacturer: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Manufacturer: Zone B, 105 Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China
Factory: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Factory: Zone B, 105 Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Pro Cellular Blood pressure monitor
Model No.: TMB-2092-G
FCC ID: OU9TMB2092-G
Trade mark: Transtek
Standard(s) : 47 CFR Part 2.1091
47 CFR Part 1.1310
47 CFR Part 1.1307
Date of Receipt: 2022-04-08
Date of Test: 2022-04-13 to 2022-04-25
Date of Issue: 2022-04-26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Kidd Yang
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-26		Original

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



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3 General Information

3.1 Details of E.U.T.

Power supply:	AC Adapter Model: BLJ06L060100P-U Input: AC 100-240V, 50/60Hz, 0.2A Max Output: DC 6.0V, 1.0A DC 6V(4*AA Batteries)
Cable(s):	DC cable:146cm unshielded
Sample Type:	Fixed production
GSM Band	
Support Network:	GPRS, EGPRS
Operation Frequency Band:	GSM850/GSM1900
Modulation Type:	GMSK for GSM/GPRS/EGPRS; 8PSK for EGPRS;
Supported Channel Bandwidth:	200KHz for GSM;
Designation of Emissions	GSM850: 246KGXW, EGPRS850: 242KG7W
	GSM1900: 245KGXW, EGPRS1900: 246KG7W
Antenna Type:	PIFA
Antenna Gain:	GSM850: -3.17dBi, GSM1900: 2.79dBi
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	5.1VDC to 6.9VDC (nominal: 6VDC)
CatM Band	
Operation Frequency Band:	CatM1 Band 2, 4, 12, 13, 25
Modulation Type:	QPSK, 16QAM
Antenna Type:	PIFA Antenna
Antenna Gain:	CatM1 Band 12/13: -3.17dBi, CatM1 Band 2/4/25: 2.79dBi;
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	5.1VDC to 6.9VDC (nominal: 6VDC)



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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/cm ²)	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/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				



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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/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 to the RF power density limit stated in above table, the minimum distance between the antenna and human body will be calculated.

4.1.3 Conclusion

Type	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/cm ²)	Limit (mW/cm ²)	MPE Ratios	Result
GSM850	824.2	-3.17	0.48	33	1995.26	0.1913	0.5495	0.3482	PASS
GSM1900	1850.2	2.79	1.90	31	1258.93	0.4761	1.0000	0.4761	PASS
CatM Band2	1850.7	2.79	1.90	23	199.53	0.0755	1.0000	0.0755	PASS
CatM Band4	1710.7	2.79	1.90	23.5	223.87	0.0847	1.0000	0.0847	PASS
CatM Band12	699.7	-3.17	0.48	23.5	223.87	0.0215	0.4665	0.0460	PASS
CatM Band13	779.5	-3.17	0.48	23	199.53	0.0191	0.5197	0.0368	PASS
CatM Band 25	1850.7	2.79	1.90	23.5	223.87	0.0847	1.0000	0.0847	PASS

Note: the GSM band and CatM Band cannot synchronous transmission at the same time.

4.2 EUT Constructional Details

Refer to Appendix - external and internal photos for FYCR2204000064AT.

--End of the Report--



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