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TEST REPORT

Application No.: GZEM1906013974CR

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 A, No.105 ,Dongli Road, Torch Development District,

Zhongshan,528437,Guangdong,China

Factory: Guangdong Transtek Medical Electronics Co., Ltd.

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

Zhongshan,528437,Guangdong,China

Equipment Under Test (EUT):

EUT Name: Mio POD Model No.: M1000

Standard(s): 47 CFR Part 1.1307, Part 2.1093, KDB 447498

Date of Receipt: 2019-07-01

Date of Test: 2019-08-06 to 2019-09-02

Date of Issue: 2019-09-16

Test Result: Pass*

Kuhe . Tian

Kobe Jian

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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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		2019-09-16		Original		

Authorized for issue by:		
Tested By	City Knang	2019-08-06 to 2019-09-02
	Lily_Kuang /Project Engineer	Date
Checked By	Riday Liv	2019-09-16
	Ricky_Liu /Reviewer	Date



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2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass		



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4 General Information

4.1 Details of E.U.T.

Power Supply: Powered by built-in battery as below

Rated: DC 3.8V,110mAh DC 5V for charging mode

Cable: 0.5m, unshielded for charging

Antenna Gain 0 dBi
Antenna Type Integral
Channel Spacing 2MHz
Modulation Type GFSK
Number of Channels 40

Operation Frequency 2402MHz to 2480MHz

Operation Frequency 2457MHz
Operation Frequency 13.56MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	IBM	T30	S/N78-3VMLX 06/01

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty	
1	Radio Frequency	±5.5 x 10-8	
2	Duty cycle	±0.57%	
3	Occupied Bandwidth	±3%	
4	RF Conducted power	±0.68dB	
5	RF Power Density	±1.50dB	
6	Conducted Spurious Emissions	±1.04dB	
7	DE Padiated Power	±4.5dB (below 1GHz)	
/	RF Radiated Power	±4.8dB (above 1GHz)	
8	Radiated Spurious Emission Test	±4.5dB (30MHz-1GHz)	
0	hadiated Spurious Effission Test	±4.8dB (1GHz-18GHz)	
9	Temperature	±0.4℃	
10	Humidity	±1.3%	
11	Supply Voltages	±1.5%	
12	Time	±3%	



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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.



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4.5 Test Facility

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

● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

• 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.

● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

◆ 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, Jul 13, 2017.

● Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer	Agilent Technologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01



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6 Radio Spectrum Technical Requirement

6.1 RF Exposure

6.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

The transmission frequencies of the device are between 100 MHz and 6 GHz. The worst case test separation distance is **5mm**.

The Max Conducted Output Power and SAR Test Exclusion Threshold (mW) are listed below:

For BLE:

Antenna Gain: 0dBi

Transmit frequency (GHz)	Power[dBm]	Max Conducted Output Power (mW)
2.402	-0.303	0.933
2.442	-0.177	0.960
2.480	-0.034	0.992

For ANT+:

Antenna Gain: 0dBi

Transmit frequency (GHz)	Output Power to Antenna Power[dBm] (dBuV/m)		Max Conducted Output Power (mW)
2.457	93.45	-1.78	0.664

For BLE:

The Max Conducted Peak Output Power is -0.034dBm on the highest channel 2.480GHz -0.034dBm logarithmic terms convert to numeric result is nearly 0.992mW(the maximum power in three transmit frequencies)

According to the formula, calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)/x}]$ General RF Exposure = (0.992mW / 5 mm) x $\sqrt{2.48GHz/7.5}$ = 0.042;



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For ANT+:

The Max Conducted Peak Output Power is -1.78dBm on the highest channel 2.457GHz -1.78dBm logarithmic terms convert to numeric result is nearly 0.664mW(the maximum power in three transmit frequencies)

According to the formula, calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)/x}]$ General RF Exposure = (0.664mW / 5 mm) x $\sqrt{2.457GHz/7.5}$ = 0.028;

BLE and ANT+ modules can simultaneous transmitting, so the SAR test result is $0.042 + 0.028 = \!\! 0.07~W/kg$ ①

SAR requirement: MPE =1.6W/kg ②; ① < ②.

So the SAR report is not required.

Remark:

b)When an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria.

1) [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)/x}$] W/kg, for the test separation distances \leq 50 mm; where x=7.5 for 1-g SAR and x=18.75 for 10-g SAR

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v06, Clause 4.3.2, the SAR report is not required.



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7 Photographs

7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1906013974CR.

--End of Report--



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