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Report No.: GZEM190501279202

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TEST REPORT

Application No.: GZEM1905012792CR

Applicant: GeoMax AG

Address of Applicant: Espenstrasse 135, ch-9443 Widnau, Switzerland **Manufacturer:** SUZHOU SUNWAY TECHNOLOGY CO., LTD

Address of Manufacturer: No.892, Wusong Road, Guoxiang Street, Wuzhong District, Suzhou, China

Factory: SUZHOU SUNWAY TECHNOLOGY CO., LTD

Address of Factory: No.892, Wusong Road, Guoxiang Street, Wuzhong District, Suzhou, China

Equipment Under Test (EUT):

EUT Name: ZOOM10 Total Station

Model No.: ZOOM10
Trade Mark: GeoMax

Standard(s): 47 CFR Part 1.1307, Part 1.1310

Date of Receipt: 2019-05-15

Date of Test: 2019-06-04 to 2019-07-04

Date of Issue: 2019-10-28

Test Result: Pass*

Kube . Tian

Kobe Jian EMC Laboratory Manager

检验检测专用章

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		2019-10-28		Original		

Authorized for issue by:			
Tested By	Kevin Zhang (Preject Engineer	2019-06-04 to 2019-07-04	
	Kevin_Zhang /Project Engineer	Date	
Checked By	Riday Lin	2019-10-28	
	Ricky_Liu /Reviewer	Date	

A 有限公司 A faction & Testing Services SGS-CS Asparatos Technical Services Co., Ltd. Guangzhou Brand Technical Services EC Laboratory.

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2 Test Summary

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Re-						
RF Exposure	47 CFR Part 1.1307, Part 1.1310	CFR 47 Part 1.1310	CFR 47 Part 1.1310	Pass		



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General Information

4.1 Details of E.U.T.

Power Supply: DC 7.2V by Li-ion battery

Details of Li-ion battery:

Model: ZBA10

Li-ion: 7.2V/3.1Ah/22.23Wh

AC100-240V 50/60Hz for charging by Charger.

Details of Charger: Model: ZCH10

Input: AC100-240V 50/60Hz Output:8.4V - 1200mAh

Test Voltage: AC110V 60Hz

Cable: AC mains (unshielded, 1.2m)

> Charger output cable (unshielded, 1m) USB data cable (unshielded, 1.5m)

Micro-USB port SD card port 6pin port

Operation Frequency: 2402MHz to 2480MHz

Antenna Gain: 0dBi

Antenna Type: Integrated Antenna

Modulation Type: **GFSK**

Spectrum Spread

Technology:

Frequency Hopping Spread Spectrum (FHSS)

Channel Spacing: 1MHz Number of Channels: 79

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 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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4.4 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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4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Equipment List

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15



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Radio Spectrum Technical Requirement 6

6.1 RF Exposure

6.1.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

According to FCC Part1.1310: 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—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)			
(A) Limits for Occupational/Controlled Exposure							
0.3-3.0	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			
(B) 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 - fraguency in MHz							

f = frequency in MHz

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)



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⁼ Plane-wave equivalent power density



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6.1.2 Conclusion

Frequency	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S)	Test Result
2402	1.000	-3.976	0.400	0.00008	1	PASS
2441	1.000	-4.788	0.332	0.00007	1	PASS
2480	1.000	-4.554	0.350	0.00007	1	PASS



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7 Photographs

7.1 EUT Constructional Details

Please refer to Appendix A - Photographs of EUT Constructional Details for GZEM1905012792CR

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