

Report No.: SZCR210402079903

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RF Exposure Evaluation Report

Application No.: SZCR2104020799AT

Applicant: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Address of Applicant: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street,

Baoan, Shenzhen, China

Manufacturer: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Address of Manufacturer: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street,

Baoan, Shenzhen, China

Factory: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Address of Factory: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street,

Baoan, Shenzhen, China

Equipment Under Test (EUT):

Product Name: Wifi Digital photo frame Model No.: W10K, W10M ♣

Please refer to section 4.1 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2ABC5-W0550

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091

Date of Receipt: 2021-04-28

Date of Test: 2021-04-30 to 2021-05-25

Date of Issue: 2021-06-03

Test Result : PASS*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Version

| Revision Record | | | | | |
|-----------------|---------|------------|----------|----------|--|
| Version | Chapter | Date | Modifier | Remark | |
| 01 | | 2021-06-03 | | Original | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | | |
|--------------------------|------------------------------|--|
| | Benson Wong | |
| | Benson Wang/Project Engineer | |
| | Eric Fu | |
| | Eric Fu/Reviewer | |



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4 General Information

4.1 General Description of EUT

| Power supply: | Powered by AC adapter |
|----------------------|---|
| 3 3 3 4 7 | Adapter model: S012-1B050200VU |
| | Input: AC 100-240V, 50/60Hz,0.3A; |
| | Output: DC 5.0V, 2.0A |
| Cable(s): | DC cable of adapter: 200cm unshielded |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz, 802.11n(HT40): 2422MHz to 2452MHz |
| Modulation Type: | 802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Channel Spacing: | 5MHz |
| Number of Channels: | 802.11b/g/n(HT20): 11, 802.11n(HT40):7 |
| Antenna Type: | Integral Antenna |
| Antenna Gain: | 2.87dBi |

Declaration of EUT Family Grouping:

Model No.: W10K, W10M

Only the model W10K was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model names.



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4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

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 Exposures | | | | | | |
| 0.3–3.0 | 614 1842/f 61.4 | 1.63 4.89/f 0.163 | *(100) *(900/f²) 1.0 f/300 5 | 6 6 6 6 | | |
| (B) Limits for General Population/Uncontrolled Exposure | | | | | | |
| 0.3–1.34 | 614 824/f 27.5 | 1.63 2.19/f 0.073 | *(100) *(180/f²) 0.2 f/1500 1.0 | 30 30 30 30 30 30 | | |

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*Pi*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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4.1.3 EUT RF Exposure Evaluation

Antenna Gain: 2.87dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.94 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Frequency | Max Conducted | Conducted Output Power Po | | Limit | Result |
|-----------|---------------|---------------------------|--------------|-------|--------|
| (MHz) | Peak Output | to Antenna | at R = 20 cm | | |
| | Power (dBm) | (mW) | (mW/cm²) | | |
| 2437 | 17.20 | 52.48 | 0.020 | 1.0 | PASS |

Note: Refer to report No. SZCR210402079902 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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