

Report No.: GZEM210100021403

FCC ID: SP9-00011HB

RF Exposure Evaluation Report

Application No.: GZEM2101000214CR Applicant: Kvsho Multimedia Ltd.

Address of Applicant: Flat F, 5/F Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fo Tan, Shatin,

N.T.

Manufacturer: Huizhou Shenke Xinfei Technology Co., Ltd.

Building C, Tangxia Chanjing Industrial Park, Huiyang District, Huizhou City Address of Manufacturer:

Huizhou Shenke Xinfei Technology Co., Ltd. Factory:

Address of Factory: Building C, Tangxia Chanjing Industrial Park, Huiyang District, Huizhou City

Equipment Under Test (EUT):

FCC ID: Z8M-SB170

EUT Name: HydraBlast

Model No.: IMW1300, IMW1300-XXX (X can be A to Z) .

Please refer to section 2 of this report which indicates which item was actually

tested and which were electrically identical.

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

KDB447498 D01 General RF Exposure Guidance V06

Date of Receipt: 2021-01-11

Date of Test: 2021-01-14 to 2021-03-11

Date of Issue: 2021-08-09

Test Result: Pass*

Kobe Jian **EMC Laboratory Manager**



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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		2021-08-09		Original

Authorized for issue by:			
Tested By	by knong		
	Lily_Kuang /Project Engineer		
Reviewed By	Ridge Liu		
	Ricky_Liu /Reviewer		



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Test Summary 2

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 1.1307, Part 1.1310	KDB447498 D01 General RF Exposure Guidance V06	CFR 47 Part 1.1310	Pass

♣ Declaration of EUT Family Grouping:

Model No.: IMW1300, IMW1300-XXX (X can be A to Z)

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model number, colour and decorations.

Therefore, only one model IMW1300 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply: Adapter

MODEL NO: MLF-A00060501000U0021 INPUT:100-240V 50/60Hz 0.18mA max

OUTPUT:5V===1A
Rechargeable battery:

DC 7.4V 2000mAh 14.8Wh(Charge by USB)

Test voltage: AC 120V 60Hz

Test Voltage: AC 120V 60Hz

Cable: DC in cable:80cm Unshielded

USB cable: 40cm Unshielded

Antenna Gain: 0 dBi

Antenna Type: Integrated antenna

Channel Spacing: 1MHz

Modulation Type: GFSK, $\pi/4DQPSK$,

Number of Channels: 79

Operation Frequency: 2402MHz to 2480MHz

Spectrum Spread

Technology:

Frequency Hopping Spread Spectrum (FHSS)

Hardware Version: E357502 Firmware Version: V1.00

S/N: SP-2020032001
Test Software Version: FCC Assist 1.0.1.2

Power setting level 0 dBm and cannot be changed by user

BT Version: BT Classic only

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Notebook	IBM	T30	S/N78-3VMLX 06/01	
BT test board	SGS EMC	RF 07	RF 07	

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

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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.

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 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.

ISED (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-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 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-20107 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 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz. The worst case test separation distance is **5mm**. According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17
- The result is rounded to one decimal place for comparison

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



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5.1.3 Conclusion

The Max Conducted Peak Output Power is 2.43dBm (include turn up tolerance) in Middle channel(2.480GHz); The best-case gain of the antenna is 0dBi.

Note: Refer to report No. GZEM210100021402 for EUT test Max Conducted Peak Output Power value.

2.43dBm logarithmic terms convert to numeric result is nearly 1.75mW.

According to the formula. calculate the test exclusion threshold result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

[√ f(GHz)]

General RF Exposure = $(1.75 \text{mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{GHz}} = 0.551 \text{ }$

SAR requirement:

S= 3.0 ②;

(1) < (2).

So the SAR report is not required.

6 Photographs

6.1 EUT Constructional Details

Refer to external and internal photos for GZEM2101000214CR.

-- End of Report--



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