

Report No.: SZEM200500358305

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RF Exposure Evaluation Report

Application No.: SZEM2005003583CR

Applicant: Pushd Inc

Address of Applicant: 50 ELDRIDGE STREET SUITE 5D New York NY 10002, United States

Manufacturer: ShenZhen JOYHONG Technology CO., Ltd

Address of Manufacturer: 5th Floor, Building 1, Zhongtai Road NO.18, Loucun Second Industrial Park,

Xinhu Street, Guangming, Shenzhen, China

Factory: ShenZhen JOYHONG Technology CO., Ltd

Address of Factory: 5th Floor, Building 1, Zhongtai Road NO.18, Loucun Second Industrial Park,

Xinhu Street, Guangming, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: AURA Carver Frame

Model No.: AF100 Trade Mark: AURA

FCC ID: 2AI5H-W906

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310

47 CFR Part 2.1091

Date of Receipt: 2020-05-09

Date of Test: 2020-05-10 to 2020-05-22

Date of Issue: 2020-05-28

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		2020-05-28		Original		

Authorized for issue by:		
	Bim chen	
	Bill Chen /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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General Information

4.1 General Description of EUT

Power Supply:	AC/DC Adapter:
	Model:SR-A3050200U2
	nput:100-240VAC 50/60Hz 0.5A Max
	Dutput: DC 5V 2A 10W
Cable:	DC cable:200cm unshielded
L	JSB cable:11cm unshielded
For BT	
Operation Frequency: 2	2402MHz to 2480MHz
Bluetooth Version: V	/4.2 Dual mode
Spectrum Spread Technology: F	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channels: 7	79
Channel Spacing: 1	MHz
Antenna Type:	ntegral Antenna
Antenna Gain: 2	2.01dBi
For BLE	
Operation Frequency: 2	2402MHz to 2480MHz
Bluetooth Version: V	/4.2 Dual mode
Modulation Type:	GFSK
Number of Channels: 4	40
Channel Spacing: 2	2MHz
Antenna Type:	ntegral Antenna
Antenna Gain: 2	2.01dBi
For 2.4G	
Operation Frequency: 8	302.11b/g/n(HT20): 2412MHz to 2462MHz
7.	302.11b: DSSS (CCK, DQPSK, DBPSK)
	302.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels: 8	302.11b/g/n(HT20):11
Channel Spacing: 5	5MHz
Antenna Type:	ntegral Antenna



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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.

VCC

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 Magnetic field strength (V/m) (A/m)		Power density (mW/cm ²)	Averaging time (minutes)						
(A) Lim	(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 6						
(B) Limits	for General Populati	on/Uncontrolled Exp	posure							
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						

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

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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For BT

Antenna: 2.01dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.59 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm ²)		
Lowest	2402MHz	2.35	1.72	0.0005	1.0	PASS

Note: Refer to report No. SZEM200500358302 for EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For BLE

Antenna: 2.01dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.59 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Ī	Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
		(MHz)	Peak Output	to Antenna	at R = 20 cm		
			Power (dBm)	(mW)	(mW/cm2)		
Ī	Lowest	2402MHz	2.20	1.66	0.0005	1.0	PASS

Note: Refer to report No. SZEM200500358303 for EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 2.4G Wi-Fi

Antenna Gain: 2.01dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.59 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm²)		
Highest	2462	23.69	233.88	0.074	1.0	PASS

Note: Refer to report No. SZEM200500358304 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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