

Report No.: SZEM201101102506

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### RF Exposure Evaluation Report

Application No.: SZEM2011011025AT

Applicant: Solaborate Inc.

Address of Applicant: 8300 Utica Ave #283, Rancho Cucamonga, California, United States 91730

3852

Manufacturer: Solaborate Inc.

Address of Manufacturer: #283 - 8300 Utica Ave, Rancho Cucamonga, CA 91730, USA

Factory: Dongguan Tai Sing Audio Technology Ltd.

Address of Factory: No. 12, Niujiokeng Road, Dongcheng Street, Guangdong Province

**Equipment Under Test (EUT):** 

EUT Name: HELLO2PLUS Model No.: HELLO2PLUS

FCC ID: 2AW3M-HELLO2PLUS

47 CFR Part 1.1307

Standards: 47 CFR Part 1.1310

47 CFR Part 2.1091

**Date of Receipt:** 2020-11-03

**Date of Test:** 2020-11-15 to 2021-01-31

**Date of Issue:** 2021-02-05

Test Result : Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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#### 2 Version

	Revision Record							
Version	Version Chapter Date Modifi							
01		2021-02-05		Original				

Authorized for issue by:		
	1 tany Ulu	
	Harry Wu /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	



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### **General Information**

4.1 General Description of EUT

Power Supply:	AC/DC Adapter
	Model: EA1019AVRS-050
	Input: AC 100-240V, 50-60Hz, 0.8A
	Output: DC 5.0V, 3.0A
Cable:	DC Cable 1.5 meters Unshielded Non-Core
	HDMI Cable 1.5 meters Shielded Non-Core
For BT:	
Bluetooth Version:	V5.0
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Number of Channels:	79
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Antenna Type:	FPC Antenna
Antenna Gain:	1.24dBi
For BLE:	
Bluetooth Version:	V5.0
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data Rate:	1Mb/s,2Mb/s
Antenna Type:	FPC Antenna
Antenna Gain:	1.24dBi
For 2.4G WIFI:	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)



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	802.11g/n: OF	DM (64QAM, 16QAM, QPS	K, BPSK)			
Channel Spacing:	5MHz					
Antenna Type:	FPC Antenna	FPC Antenna				
Antenna Gain:	Antenna 1 &2:	Antenna 1 &2: 1.24dBi				
Remark:	Two Antennas can simultaneous transmit WIFI signal at 802.11n(HT20) and 802.11n(HT40) mode.					
For 5G WIFI:	and ooz. Thi(TTTo) mode.					
DFS Function:	Slave without I	Radar detection				
TPC Function:	Not Support					
	Band UNII Band I	Mode IEEE 802.11a	Frequency Range(MHz) 5180-5240	Number of channels		
		IEEE 802.11n/ac 20MHz	5180-5240	5240 4 5230 2		
		IEEE 802.11n/ac 40MHz	5190-5230	2		
		IEEE 802.11ac 80MHz	5210	1		
	UNII Band	IEEE 802.11a	5260-5320	4		
	II-A	IEEE 802.11n/ac 20MHz	5260-5320	4		
Operation Frequency:		IEEE 802.11n/ac 40MHz	5270-5310	2		
Operation requestoy.		IEEE 802.11ac 80MHz	5290	1		
	UNII Band	IEEE 802.11a	5500-5700	11		
	II-C	IEEE 802.11n/ac 20MHz	5500-5700	11		
		IEEE 802.11n/ac 40MHz	5510-5670	5		
		IEEE 802.11ac 80MHz	5530-5690	1 4 4 2 1 11 11		
	UNII Band	IEEE 802.11a	5745-5825	5		
		IEEE 802.11n/ac 20MHz	5745-5825	5		
		IEEE 802.11n/ac 40MHz	5755-5795	2		
		IEEE 802.11ac 80MHz	5775	1		
	IEEE 802.11a:	OFDM(BPSK/QPSK/16QA	M/64QAM)			
Type of Modulation:		OFDM(BPSK/QPSK/16QA	•			
	IEEE 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)					
Antenna Type:	FPC Antenna					



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Antenna Gain:	Antenna 1 &2: 2.57dBi
Remark:	Two Antennas can simultaneous transmit WIFI signal at 802.11n(HT20), 802.11n(HT40), 802.11ac(HT20), 802.11ac(HT40), 802.11ac(HT80) modes.



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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

Nono

### 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) Lim	its for Occupational	//Controlled Exposu	res	
0.3–3.0 3.0–30 30–300 30–300 300–1500 1500–100,000	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 Populati	on/Uncontrolled Exp	oosure	
0.3–1.34	614 824/ī 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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#### 4.1.3 EUT RF Exposure Evaluation

For BT:

Antenna Gain: 1.24dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.33 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Тх Туре	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
		Power (dBm)	(mW)	(mW/cm²)		
2402 MHz	SISO	11.93	15.60	0.0041	1.0	PASS

Note: Refer to report No. SZEM201101102502 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.

For BLE:

Antenna Gain: 1.24dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.33 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Тх Туре	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)		Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm²)		
2402 MHz	SISO	1.80	1.51	0.0004	1.0	PASS

Note: Refer to report No. SZEM201101102503 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.



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For 2.4G WIFI:

Antenna Gain: 1.24dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.33 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Тх Туре	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)		Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm <sup>2</sup> )		
2437 MHz	MIMO	16.15	41.21	0.011	1.0	PASS

Note: Refer to report No. SZEM201101102504 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.

For 5G WIFI:

Antenna Gain :2.57dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.81 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Тх Туре	Max Conducted	<b>Output Power</b>	Power Density	Limit	Result
(MHz)		Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm²)		
5745 MHz	MIMO	17.61	57.68	0.021	1.0	PASS

Note: Refer to report No. SZEM201101102505 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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