FCC RF EXPOSURE EVALUATION REPORT

Product Name:	FM WIRELESS INTERCOM
Trade Mark:	Maxtone / Calford
Model No.:	SK1208
Add. Model No.:	SK1204 / CF828
Report Number:	190705004RFC-2
Test Standards:	FCC 47 CFR Part 1 Subpart I
FCC ID:	2AOXESK1208
Test Result:	PASS
Date of Issue:	August 23, 2019

Prepared for:

Heyuan SunKeungFung Technology LTD.
3/F,Block B,Area A,Fumin Industrial Park,8th keji Road,Hi-Tech Zone,HeYuan,China

Prepared by:

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Approved by: Billy Li, Technical Director

Date: August 23, 2019

Version

Version No.	Date	Description
V1.0	August 23, 2019	Original

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Heyuan SunKeungFung Technology LTD.
Address of Applicant:	3/F,Block B,Area A,Fumin Industrial Park,8th keji Road,Hi-Tech Zone,HeYuan,China
Manufacturer:	Heyuan SunKeungFung Technology LTD.
Address of Manufacturer:	3/F,Block B,Area A,Fumin Industrial Park,8th keji Road,Hi-Tech Zone,HeYuan,China

1.2 EUT INFORMATION

Product Name:	FM WIRELESS INTERCOM
Model No.:	SK1208
Add. Model No.:	SK1204 / CF828
Trade Mark:	Maxtone / Calford
DUT Stage:	Identical Prototype
Sample Received Date:	July 15, 2019
Sample Tested Date:	July 15, 2019 to August 13, 2019
Note: The test data is gathered from a production sample, provided by the manufacturer. The marks and press key of others models listed in the report is different from main-test model SK1208, but the circuit and the electronic construction do not change, declared by the manufacturer.	

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Range:	FRS:	462.5625 MHz to 462.7125 MHz
		467.5625 MHz to 467.7125 MHz
Rated Output Power:	FRS (See Note 1):	0.5W(27dBm)
	FRS:	0.5W(27dBm)
Modulation Type:	FRS:	FM
Channel Separation:	FRS:	12.5 KHz
Emission Designator:	FRS:	6K01F3E
Maximum Transmitter Power (ERP):	FRS:	25.32dbm
Number of Channels:	8	
Antenna Type:	Integral Antenna	
Antenna Gain:	1 dBi	

1.4 OTHER INFORMATION

Operation Frequency Each of Channel	
FRS	
Channel	**Frequency**
1	462.5625 MHz
2	462.5875 MHz
3	462.6125 MHz
4	462.6375 MHz
5	462.6625 MHz
6	462.6875 MHz

7	462.7125 MHz
8	467.5625 MHz

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I

All test items have been performed and recorded as per the above standards

1.6 TEST LOCATION

All tests were performed at:

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China 518109
Telephone: +86 (0) 755 2823 0888
Fax: +86 (0) 755 2823 0886

1.7 TEST FACILITY

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

CNAS-Lab Code: L9069
The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1
The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

A2LA-Lab Certificate No.: 4312.01
Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.
Designation Number: CN1194
Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report.

3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title
1	FCC 47 CFR Part 1 Subpart I	PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969
2	KDB 447498 D01 General RF Exposure Guidance v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Times $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Times $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100000	/	/	1	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density.

3.2.2 Test Procedure

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

3.3 MPE CALCULATION METHOD

S = PG/4πR^2= EIRP/4πR^2
S = power density (in appropriate units, e.g., mw/cm2)
P = power input to the antenna (in appropriate units, e.g., mw)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.
R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

3.4 MPE CALCULATION RESULTS

Note: *For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.*

3.4.1 For FRS

For FRS function, operating at 462.5625 MHz to 462.7125 MHz and 467.5625 MHz to 467.7125 MHz for FM

3.4.2.1 Antenna Type:

Chain 0: Integral Antenna

3.4.2.2 Results for FRS

Operating Frequency	Declared maximum ERP	Max. positive tolerance according manufacturer	Calculated maximum ERP	Declared maximum ERP	MPE Limit	MPE Value
(MHz)	(dBm)	(dB)	(dBm)	(mW)	(mw/cm2)	
462.5625 MHz to 462.7125 MHz	24	± 2	26	398.1072	0.3085 (F/1500)	0.0792
467.5625 MHz to 467.7125 MHz	24	± 2	26	398.1072	0.3118 (F/1500)	0.0792

APPENDIX 1 PHOTOS OF TEST SETUP

N/A

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***