

RF EXPOSURE EVALUATION REPORT

APPLICANT: Xiamen Candour Co.,Ltd

PRODUCT NAME : TV BOX

MODEL NAME : R95S

TRADE NAME : SAMMIX

BRAND NAME : SAMMIX

FCC ID : 2ALOI-R95S

47CFR 2.1091

STANDARD(S) : KDB 447498 D01 General RF Exposure

Guidance v06

ISSUE DATE : 2017-03-21

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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	Change History						
Issue	Issue Date Reason for change						
1.0	2017-03-21	First edition					
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TEST REPORT DECLARATION

Applicant	Xiamen Candour Co.,Ltd			
Applicant Address	19/F,C&D International Building.,No.1699 East Huandao Roxiamen 361008, China			
Manufacturer	Xiamen Candour Co.,Ltd			
Manufacturer Address	19/F,C&D International Building.,No.1699 East Huandao Road, Xiamen 361008, China			
Product Name	TV BOX			
Model Name	R95S			
Brand Name	SAMMIX			
HW Version	MYROPE_S_V2.0			
SW Version	V01_160301_CTA			
Test Standards	47CFR 2.1091; KDB 447498 D01 General RF Exposure Guidance v06			
Issue Date	2017-03-21			
SAR Evaluation	Not Required			

Reviewed by :	Lin Jim
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Approved by	Peng Hu
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1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1. Identification of Applicant

Company Name:	Xiamen Ca	andour Co.,Ltd	MOET W	MORE INC. AE		
Address:	19/F,C&D International		Building.,No.1699	East	Huandao	Road,
"IOE" MO	Xiamen 361008, China					MORL

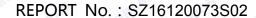
1.2. Identification of Manufacturer

Company Name:	Xiamen Candour Co.,Ltd					LAB
Address:	19/F,C&D	19/F,C&D International Building.,No.1699 East Huandao Road,				Road,
E ORLAN MORN	Xiamen 361008, China					

1.3. Equipment Under Test (EUT)

Model Name:	R95S
Trade Name:	SAMMIX
Brand Name:	SAMMIX
Hardware Version:	MYROPE_S_V2.0
Software Version:	V01_160301_CTA
Frequency Bands:	WIFI 802.11 b/g/n20/n40(2.4GHz);
Modulation Mode:	WIFI802.11b: DSSS (2.4GHz);WIFI802.11g: OFDM(2.4GHz); WIFI802.11n20/n40: OFDM(2.4GHz);
Antenna type:	Fixed Internal Antenna
Development Stage:	Identical prototype







1.3.1. Photographs of the EUT

EUT front view



EUT rear view





1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	MYROPE_S_V2.0	V01_160301_CTA

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1 OPLAE	47 CFR§2.1091	Radiofrequency Radiation Exposure Evaluation: mobile devices
2	KDB 447498 D01v06	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, Based on 47CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

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)
(i	B) Limits for General	Population/Uncontro	lled Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz



Plane-wave equivalent power density



3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

1. Bluetooth Average output power

D 1	Frequenc		Output Power(dBm)			
Band	Channel	y (MHz)	802.11B 802.11G 802.11N 20			
MORE	M 1 AB	2412	7.13	5.41	4.76	
Wifi	6	2437	7.85	5.99	5.29	
	<u></u> 11	2462	8.37	6.49	5.97	

Band	Channel	Frequenc	Output	
		у	Power(dBm)	
		(MHz)	802.11n40	
RIA MO	3	2412	4.40	
Wifi	6	2437	4.71	
MORL	9	2452	5.13	

4 RF EXPOSURE EVALUATION

Standalone transmission MPE evaluation

Bands	Frequency (MHz)	Antenna Gain (dBi)	Conducted Average Power (dBm)	Time-averaging EIRP (mW)	Power density (mW/cm²)	Limit for MPE (mW/cm²)
2.4GHz	2462	1.56	8.37	9.84	0.002	1.0

1. MPE calculation method

Power Density = EIRP/ 4π R²

Where: EIRP = P·G

P = Peak out power G = Antenna gain

R = Separation distance (20cm)





ANNEX C GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
Department:	Morlab Laboratory		
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China		
Responsible Test Lab Manager:	Mr. Su Feng		
Telephone:	+86 755 36698555		
Facsimile:	+86 755 36698525		

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

