# **Radio Test Report**

Report No.: STS2406129H01

## Issued for

Shenzhen See Me Here Electronic Co.,Ltd

1st Floor, 2nd Floor, 3rd Floor, 5th Floor, Building B, TongFuYu Industrial Park, No.32 Hangkong Road, Sanwei Community, Hangcheng Street, Bao'an district, Shenzhen, China

Product Name: Karaoke Speaker

Brand Name: **MLQVE** 發不見不散

Model Name: Rangers D5

Series Model(s): D5, X30

FCC ID: 2AXOXRANGERSD5

Test Standards: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.



Test Result....:

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#### **TEST REPORT**

	IESI REPORT
	Shenzhen See Me Here Electronic Co.,Ltd
Address:	1st Floor, 2nd Floor, 3rd Floor, 5th Floor, Building B, TongFuYu Industrial Park, No.32 Hangkong Road, Sanwei Community, Hangcheng Street, Bao'an district, Shenzhen, China
Manufacturer's Name:	Shenzhen See Me Here Electronic Co.,Ltd
Address:	1st Floor, 2nd Floor, 3rd Floor, 5th Floor, Building B, TongFuYu Industrial Park, No.32 Hangkong Road, Sanwei Community, Hangcheng Street, Bao'an district, Shenzhen, China
<b>Product Description</b>	
Product Name:	Karaoke Speaker
Brand:	MLOVE 69 不見企散
Model Number:	Rangers D5
Series Model(s):	D5, X30
Standards:	FCC 47CFR §2.1091 447498 D04 Interim General RF Exposure Guidance v01
	s report relate only to the object tested. This report shall not be ut the written approval of the Shenzhen STS Test Services Co., Ltd.
Date of Test	:
Date of receipt of test item	: 26 June 2024
Date (s) of performance of tests.	: 26 June 2024~ 28 June 2024
Date of Issue	: 28 June 2024

**Pass** 

Testing Engineer :	Aann Bu	
	(Aaron Bu)	TEST SERVICE
Technical Manager :	Chin cher	TEST SERVICES CO CSTING APPROVAL
	(Chris Chen)	
Authorized Signatory :	Zoney Yorky	
///	(Bovey Yang)	_

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## **Revision History**

Report No.: STS2406129H01

Rev.	Issue Date	Report No.	Effect Page	Contents		
00	00 28 June 2024 STS2406129H01		ALL	Initial Issue		
		**	100			

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#### 1. GENERAL INFORMATION

#### 1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Karaoke Speaker	Karaoke Speaker					
Brand	MLOVE						
Model Number	Rangers D5	Rangers D5					
Series Model(s)	D5, X30						
Model Difference	Only the model na	me and trademark are different					
Product Description	The EUT is Karaol Operation Frequency: Modulation Type: Antenna gain: Antenna Designation:	ke Speaker  2402 – 2480 MHz  BT BR(1Mbps): GFSK  BT EDR(2Mbps): π/4-DQPSK  BT EDR(3Mbps): 8DPSK  1.35 dBi  FPC Antenna					
Rating	Input: DC 5V 3A/D	C 9V 3A/DC 12V 2.5A					
Battery	Rated Voltage: DC 7.4V Charge Limit Voltage: DC 8.4V Capacity:4500mAh						
Hardware version number	N/A						
Software version number	N/A						

#### 1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai

Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

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## 2. FCC 47CFR §2.1091 REQUIREMENT

#### 2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

#### 2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and  $f$  is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

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(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R <sup>2</sup> .
1.34-30	3,450 R <sup>2</sup> /f <sup>2</sup> .
30-300	3.83 R <sup>2</sup> .
300-1,500	0.0128 R <sup>2</sup> f.
1,500-100,000	19.2R².

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For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth, i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least  $\lambda/2\pi$  according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure. Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.

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## 2.3 TEST RESULT

## Turn up

Mode	Detector	Turn up Power		
BT	AV	5±1dBm		

Pr	otocol	Fre. (GHz)	Separation distance (cm)	Max Turn up power (dBm)	ANT Gain ( dBi)	Max EIRP (dBm)	Max ERP (W)	Limit (W)	Ratio	Result
	ВТ	2.48	20	6	1.35	5.20	0.003	0.7680	0.0043	Pass

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements.

2. ERP=EIRP-2.15

\* \* \* \* END OF THE REPORT \* \* \* \*