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RF Exposure Evaluation Report

Report No. : CQASZ20200500012EX-02
Applicant: YUYAO HUALUN IMPORT AND EXPORT CO.,LTD.
Address of Applicant: F.7,HUALUN MANSION,NO.195 NANLEI ROAD,YUYAO,
ZHEJIANG,CHINA.
Equipment Under Test (EUT):
Product: Humidifier Bluetooth Speaker
Model No.: FD-503
Brand Name: sasa
FCC ID: 2A6X7-FD503
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Test: May.16.2022 to May.29.2022
Date of Issue: May 30.2022
Test Result : PASS*

Tested By:

Tom Chen

(Tom Chen)

Reviewed By:

Aaron Ma

(Aaron Ma)

Approved By:

Jack Ai

(Jack Ai)



* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200500012EX-02	Rev.01	Initial report	2022-05-30

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3 General Information

3.1 Client Information

Applicant:	YUYAO HUALUN IMPORT AND EXPORT CO.,LTD.
Address of Applicant:	F.7,HUALUN MANSION,NO.195 NANLEI ROAD,YUYAO, ZHEJIANG,CHINA.
Manufacturer:	AIRSUN INDUSTRIAL CO.,LTD
Address of Manufacturer:	Building B,No.188,Dongfeng Village,Gutang'ao Community,Huihuan St,Zhongkai High-tech Zone,Huizhou,China
Factory:	AIRSUN INDUSTRIAL CO.,LTD
Address of Factory:	Building B,No.188,Dongfeng Village,Gutang'ao Community,Huihuan St,Zhongkai High-tech Zone,Huizhou,China

3.2 General Description of EUT

Characteristics	Description
Product	Humidifier Bluetooth Speaker
Model Number	FD-503
Modulation:	GFSK, $\pi/4$ DQPSK,8DPSK
Operating Frequency Range(s):	2402-2480MHz
Number of Channels:	79 channels
Antenna Type	Internal Antenna
Antenna Gain	0 dBi
Power supply	☒ DC supply: DC 5V From USB Charging DC 3.7V From Battery

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]}{\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

1) For BLE

Operation Mode: GFSK, 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
GFSK - Lowest (2402MHz)	0.692	0±1	1	1.258	0.38	3.0
GFSK -Middle (2440MHz)	-1.009	-1±1	0	1.000	0.32	
GFSK - Highest (2480MHz)	-2.166	-2±1	-1	0.794	0.25	
8DPSK - Lowest (2402MHz)	0.469	0±1	1	1.258	0.38	
8DPSK - Middle (2440MHz)	-0.651	-1±1	0	1.000	0.32	
8DPSK - Highest (2480MHz)	0.692	0±1	1	0.794	0.25	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: 90396-22-72-22-PP001