

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Compiled by

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Supervised by

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Approved by

(position+printed name+signature)..: Manager Yvette Zhou

Date of issue...... April 22, 2022

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... NINGBO SC-STARMAX IMP. & EXP. CO.,LTD.

Road, Ningbo, China.

Test specification/ Standard............: 47 CFR Part 1.1307

47 CFR Part 2.1093

TRF Originator...... Shenzhen Most Technology Service Co., Ltd.

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Test item description.....: LED BT Speaker

Trade Mark..... N/A

Model/Type reference...... OR1108-BT

Listed Models: N/A

Modulation Type...... GFSK, π/4DQPSK, 8DPSK Operation Frequency..... From 2402MHz to 2480MHz

Hardware Version...... BTS07-AC6969D-V3.0

Software Version...... AC630N_bt_data_transfer_sdk_release_v0.9.2

Rating..... DC 3.7V(by battery)
DC 5V(by USB)

Result..... PASS

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TEST REPORT

Equipment under Test : LED BT Speaker

Model /Type : OR1108-BT

Listed Models : N/A

Remark N/A

Applicant : NINGBO SC-STARMAX IMP. & EXP. CO.,LTD.

Address : Room513, 5F, No.3 Building, 1377 Loft Center, No.1377 Jianlan

Road, Ningbo, China.

Manufacturer : NINGBO SC-STARMAX IMP. & EXP. CO.,LTD.

Address : Room513, 5F, No.3 Building, 1377 Loft Center, No.1377 Jianlan

Road, Ningbo, China.

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022.04.22	Initial Issue	Alisa Luo

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2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 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.

2.1.2 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:

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

f(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 \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

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2.1.3 EUT RF Exposure

Measurement Data

BT classic

GFSK					
Test channel Pe	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	-0.443	-0.443±1	0.557		
Middle(2441MHz)	0.009	0.009±1	1.009		
Highest(2480MHz)	-0.817	-0.817±1	0.183		

π /4DQPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	-0.746	-0.746±1	0.254		
Middle(2441MHz)	-0.066	-0.066±1	0.934		
Highest(2480MHz)	-0.878	-0.878±1	0.122		

8DPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	-0.689	-0.689±1	0.311		
Middle(2441MHz)	-0.083	-0.083±1	0.917		
Highest(2480MHz)	-0.869	-0.869±1	0.131		

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated	Exclusion	SAR Test
		(dBm)	(mW)	value	threshold	Exclusion
Middle(2441MHz)	0.009	1.009	1.26	0.39	3.0	Yes