

#### 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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Approved by

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

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

Nanshan, Shenzhen, Guangdong, China.

Sunny Deng

Applicant's name...... Shenzhen Hanrongda Electronic Co., Ltd.

Shenzhen

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...... RADIO.BT.MUSIC PLAYER

Trade Mark...... HanRongDa

Model/Type reference...... HRD-700

Listed Models ....... ZWS-700

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

Result..... PASS

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## TEST REPORT

**Equipment under Test** RADIO.BT.MUSIC PLAYER

Model /Type HRD-700

Listed Models ZWS-700

Only the model "HRD-700" was tested, Their electrical circuit Remark

design, layout, components used and internal wiring are identical,

Only the model name and Appearance color is different.

Applicant Shenzhen Hanrongda Electronic Co., Ltd.

No.21, LiYuanxia, Xin Li Road, Ping Hu Town, Long Gang District, Address

Shenzhen

Manufacturer Shenzhen Hanrongda Electronic Co., Ltd.

No.21, LiYuanxia, Xin Li Road, Ping Hu Town, Long Gang District, Address

Shenzhen

Test Result:	PASS

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	2025.03.20	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)] • [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  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 calculation<sup>17</sup>

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

BLE

		GFSK	
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power
	(dBm)	(dBm)	(dBm)
Lowest(2402MHz)	1.375	1.375±1	2.375
Middle(2440MHz)	0.196	0.196±1	1.196
Highest(2480MHz)	0.312	0.312±1	1.312

Worst case: GFSK						
Channel	Maximum Peak Conducted Output	Darrian		Calculated value	Exclusion threshold	SAR Test
	Power (dBm)	(dBm)	(mW)	value	uncsiloid	Exclusion
Lowest(2402MHz)	1.375	2.375	1.73	0.53	3.0	Yes

EDR

		GFSK	
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power
	(dBm)	(dBm)	(dBm)
Lowest(2402MHz)	1.741	1.741±1	2.741
Middle(2441MHz)	1.145	1.145±1	2.145
Highest(2480MHz)	1.028	$1.028 \pm 1$	2.028

		π/4DQPSK	
Test channel	Peak Output Power Tune up tolerance		Maximum tune-up Power
	(dBm)	(dBm)	(dBm)
Lowest(2402MHz)	2.629	2.629±1	3.629
Middle(2441MHz)	2.059	2.059±1	3.059
Highest(2480MHz)	1.924	1.924±1	2.924

		8DPSK		
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
1 555 514411151	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	3.057	3.057±1	4.057	
Middle(2441MHz)	-0.675	-0.675±1	0.325	
Highest(2480MHz)	-0.819	-0.819±1	0.181	

Worst case: 8DPSK						
Channel	Conducted Output		Exclusion threshold	SAR Test Exclusion		
Lowest(2402MHz)	3.057	4.057	2.55	0.78	3.0	Yes

THE END OF REPORT
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