

#### 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

( position+printed name+signature)..: File administrators Alisa Luo

Supervised by

( position+printed name+signature)..: Test Engineer Sunny Deng

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 Electronics Co.,Ltd.

Shenzhen

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

47 CFR Part 2.1093

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Test item description.....: Emergency Disaster Prevention Multi-functional Radio

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

Result..... PASS

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## TEST REPORT

Equipment under Test Emergency Disaster Prevention Multi-functional Radio

Model /Type HRD-908

Listed Models ZWS-908

Only the model "HRD-908" was tested, Their electrical circuit Remark

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

Only the Appearance color is different.

Applicant Shenzhen Hanrongda Electronics Co.,Ltd.

No.21,LiYuan Xia,XinLi Road,PingHu Town,LongGang District Address

Shenzhen

Manufacturer Shenzhen Hanrongda Electronics Co.,Ltd.

No.21,LiYuan Xia,XinLi Road,PingHu Town,LongGang District Address

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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	2025.04.27	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 (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)		
Lowest(2402MHz)	1.14	1.14±1	2.14		
Middle(2440MHz)	0.81	0.81±1	1.81		
Highest(2480MHz)	0.49	0.49±1	1.49		

Worst case: GFSK						
Channel	Maximum Peak Conducted Output	Maximum tune-up Power		Calculated	Exclusion	SAR Test
Power (dBm)	(dBm)	(mW)	value	threshold	Exclusion	
Lowest(2402MHz)	1.14	2.14	1.64	0.50	3.0	Yes

EDR

GFSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
1 est chamer	(dBm)	(dBm)	(dBm)		
Lowest(2402MHz)	2.07	2.07±1	3.07		
Middle(2441MHz)	1.76	1.76±1	2.76		
Highest(2480MHz)	1.50	1.50±1	2.5		

π/4DQPSK				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	3.04	3.04±1	4.04	
Middle(2441MHz)	2.71	2.71±1	3.71	
Highest(2480MHz)	2.41	2.41±1	3.41	

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8DPSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)		
Lowest(2402MHz)	3.04	3.04±1	4.04		
Middle(2441MHz)	0.22	0.22±1	1.22		
Highest(2480MHz)	-0.11	-0.11±1	0.89		

Worst case: π/4DQPSK /8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximun Pov (dBm)	-	Calculated value	Exclusion threshold	SAR Test Exclusion
Lowest(2402MHz)	3.04	4.04	2.54	0.78	3.0	Yes

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