

RF Exposure Evaluation Report

Product : OPEN WIRELESS STEREO
Trade mark : N/A
Model/Type reference : N2/S2/N3/S3/N4/S4/T098
Serial Number : N/A
Report Number : EED32O82066602
FCC ID : 2A9XA-822106
Date of Issue : Jan. 10, 2023
: 47 CFR Part 1.1307
: 47 CFR Part 2.1093
Test Standards : KDB447498D01 General RF
: Exposure Guidance v06
Test result : PASS

Prepared for:

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1 Version

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3 General Information

3.1 Client Information

Applicant:	DONGGUAN YUNHUI ELECTRONIC TECHNOLOGY CO.,LTD
Address of Applicant:	Room 803, Building 12, No. 6, Hualing 1st Road, Duitang, Chashan Town, Dongguan City, Guangdong Province
Manufacturer:	DONGGUAN BINSHI ELECTRONIC TECHNOLOGY CO.,LTD
Address of Manufacturer:	Room 801, Building 12, No. 6, Hualing 1st Road, Duitang, Chashan Town, Dongguan City, Guangdong Province
Factory:	DONGGUAN BINSHI ELECTRONIC TECHNOLOGY CO.,LTD
Address of Factory:	Room 801, Building 12, No. 6, Hualing 1st Road, Duitang, Chashan Town, Dongguan City, Guangdong Province

3.2 General Description of EUT

Product Name:	OPEN WIRELESS STEREO
Model No.(EUT):	N2/S2/N3/S3/N4/S4/T098
Test Model No.:	N2
Trade mark:	N/A
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Power Supply:	DC 3.7V
Test Voltage:	DC 3.7V
Sample Received Date:	Dec. 29, 2022
Sample tested Date:	Dec. 29, 2022 to Jan. 06, 2023
Remark:	<p>Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.</p> <p>Model No.: N2/S2/N3/S3/N4/S4/T098</p> <p>Only the model N2 was tested,their electrical circuit design,layout,components used and internal wiring are identical, only the color of the appearance is different.</p>

3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	FPC Antenna
Antenna Gain:	L: -0.81 dBi R:-0.78dBi

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
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.

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:

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

4.1.2 EUT RF Exposure

1) For BT Classic

Measurement Data

The data of Ear R is worst, only the worst case is recorded in the report.

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-8.03	-8±1	-7	0.200
Middle(2441MHz)	-6.52	-6±1	-5	0.316
Highest(2480MHz)	-4.85	-4±1	-3	0.501
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-6.04	-6±1	-5	0.316
Middle(2441MHz)	-4.39	-4±1	-3	0.501
Highest(2480MHz)	-2.78	-2±1	-1	0.794
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-5.49	-5±1	-4	0.398
Middle(2441MHz)	-3.97	-3±1	-2	0.631
Highest(2480MHz)	-2.39	-2±1	-1	0.794

Worst case: 8DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-5.49	-5±1	-4	0.398	0.125	3.0
Middle (2441MHz)	-3.97	-3±1	-2	0.631	0.199	
Highest (2480MHz)	-2.39	-2±1	-1	0.794	0.250	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O82066601.

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 CTI, this report can't be reproduced except in full.

*** End of Report ***