



TEST REPORT

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Report No.		ICRT-TR-E231966-0A
Client	Name	Healingsound
	Address	217, Yeoksam-ro, Gangnam-gu, Seoul, Republic of Korea
Product name		Healingstone
Model name		HS-01
Voltages		DC 3.7 V
Place of test		☒ Inside test ☐ Field test Address: 112, 113 Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Date of test		21. Jul. 2023 ~ 01. Aug. 2023
Test Method/Item		FCC rule part 1.1310
Test Results		Refer to 4. RF Exposure
Affirmation	Tested by Si-Yeon, Hwang (Signature)	Technical Manager Tae-Yang, Yoon (Signature)
☐ The above test report is certified that the above mentioned products have been tested for the sample. ☐ The above test report is not related to accreditation by KS Q ISO/IEC 17025 and Korea Laboratory Accreditation scheme. ☐ The test report is prohibited for some reproduction without the approval of the ICR.		

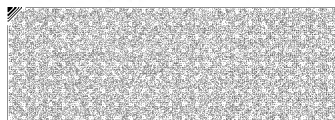
2023. 08. 10

INTERNATIONAL CERTIFICATION REGISTRAR



The authenticity of the test report can be checked on the G4B or ICR website.

112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea / Tel: 02-6351-9001 ~ 6



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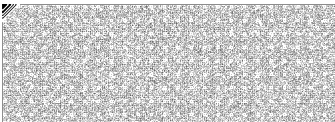
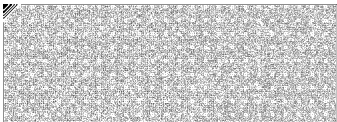


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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E231966-0A	2023. 08. 10	Initial Issue	All





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1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	Healingsound
Address	217, Yeoksam-ro, Gangnam-gu, Seoul, Republic of Korea
Contact Person	Jungu Kang
Telephone No.	+82) 10-8102-2411
Fax No.	-
E-mail	jooncap@healingsound.kr

1.2 Manufacturer Information

Applicant	Healingsound
Address	217, Yeoksam-ro, Gangnam-gu, Seoul, Republic of Korea

1.3 Test Laboratory Information

Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
KOLAS No.	KT652
KC & FCC	KR0165

1.4 Measurement Uncertainty

Parameter	Uncertainty for ICR	Limit
Occupied Channel Bandwidth	0.19%	±5 %
RF output power, conducted	0.90 dB	±1.5 dB
Power Spectral Density, conducted	1.51 dB	±3 dB
Unwanted Emissions, conducted	1.36 dB	±3 dB
Supply voltages	0.02%	±3 %
Time	0.58%	±5 %
All emissions, radiated (Under the 1 GHz)	3.22 dB	±6 dB
All emissions, radiated (Above the 1 GHz)	3.67 dB	±6 dB





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2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	Healingstone
Model Name	HS-01
Additional Model Name	COZYSTONE, CS-01
Hardware Version	1.0
Software Version	1.0
Power Supply	DC 3.7 V

2.2 Additional Information

Device Type	Stand-alone	
Adaptive/Non-Adaptive	Non-Adaptive Equipment	
Operating Frequency	Bluetooth BDR, EDR, LE	2 402 MHz ~ 2 480 MHz
RF Output Power	Bluetooth BDR_Right	4.1 dBm
	Bluetooth EDR_Right	6.62 dBm
	Bluetooth LE_Right	4.64 dBm
	Bluetooth BDR_Left	3.34 dBm
	Bluetooth EDR_Left	5.52 dBm
	Bluetooth LE_Left	3.18 dBm
Modulation Type	GFSK / 8DPSK	
Antenna Type	Chip Antenna	
Antenna Gain	4.34 dBi	
Operating Mode	The EUT is continuous transmission mode during the test	

2.3 Modifications of EUT

- None

2.4 Reason of Additional Model Name

NO	Family Model Name	Difference
1	COZYSTONE, CS-01	Model name change





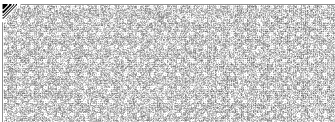
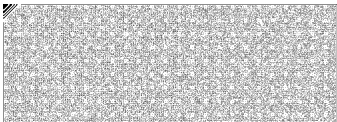
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3. Test Summary

3.1 Test standards and results

FCC rule part 1.1310			
Clause	Test items	Applied	Results
FCC rule part 1.1310	Radiofrequency radiation exposure.	■	PASS





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4. Result

4.1 RF Exposure

4.1.1 Regulation

FCC rule part 1.1310(d)

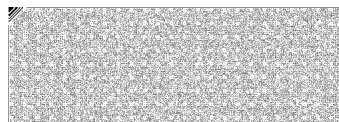
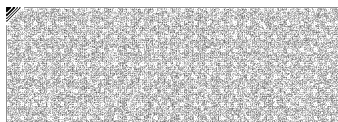
(1) Evaluation with respect to the SAR limits in this section must demonstrate compliance with both the whole-body and peak spatial-average limits using technically supported measurement or computational methods and exposure conditions in advance of authorization (licensing or equipment certification) and in a manner that facilitates independent assessment and, if appropriate, enforcement. Numerical computation of SAR must be supported by adequate documentation showing that the numerical method as implemented in the computational software has been fully validated; in addition, the equipment under test and exposure conditions must be modeled according to protocols established by FCC-accepted numerical computation standards or available FCC procedures for the specific computational method.

(2) For operations within the frequency range of 300 kHz and 6 GHz (inclusive), the limits for maximum permissible exposure (MPE), derived from whole-body SAR limits and listed in Table 1 in paragraph (e)(1) of this section, may be used instead of whole-body SAR limits as set forth in paragraphs (a) through (c) of this section to evaluate the environmental impact of human exposure to RF radiation as specified in § 1.1307(b) of this part, except for portable devices as defined in § 2.1093 of this chapter as these evaluations shall be performed according to the SAR provisions in § 2.1093.

4.1.2 SAR test exclusion guidance

KDB 447498 D01 V06 4.3. General SAR test exclusion guidance

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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.²⁸ The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.





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4.1.3 Limit

KDB 447498 D01 V06 4.3. General SAR test exclusion guidance

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.

b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

- 1) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\}$ mW, for 100 MHz to 1500 MHz
- 2) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ mW, for > 1500 MHz and ≤ 6 GHz

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any SAR test results below 100 MHz to be acceptable.





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4.1.4 Result

Mode	Frequency [MHz]	Max Power / tolerance [dBm]	Max Tune-up Power [dBm]	Min. test separation distance [mm]	SAR test exclusion thresholds	for 1-g SAR
BDR_Right	2 402	4.1 ± 1.0	5.10	5.00	1.00	≤ 3.0
EDR_Right	2 402	6.62 ± 1.0	7.62	5.00	1.79	≤ 3.0
LE_Right	2 402	4.64 ± 1.0	5.64	5.00	1.14	≤ 3.0
BDR_Left	2 402	3.34 ± 1.0	4.34	5.00	0.84	≤ 3.0
EDR_Left	2 402	5.52 ± 1.0	6.52	5.00	1.39	≤ 3.0
LE_Left	2 402	3.18 ± 1.0	4.18	5.00	0.81	≤ 3.0

SAR test exclusion thresholds = [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)]

END OF REPORT.

