

RF EXPOSURE REPORT

OF

Applicant: Daikin Industries, LTD.
SAKAI Plant, 1304 Kanaoka-cho, Kita-ku, Sakai Osaka
5918511 Japan

Product Name: Wired Remote Controller

Brand Name: Daikin

Marketing Name: BRC1H

FCC Model No.: BRC1H**** (* can 0 to 9 or A to Z or blank for marketing use only)

IC Model No.: BRC1H71W

FCC Model Difference: For marketing purpose

Report Number: ER/2020/20009

FCC ID: MG3-59007

IC: 2575A-59007

FCC Rule Part: Part 2.1093

IC Rule: RSS-102 issue 5 Mar. 19, 2015

Issue Date: Mar. 26, 2020

We hereby certify that:

The data evaluation in this report is in compliance with FCC Rules Part 2 and RSS-102.
The evaluation results of this report relate only to the tested sample identified in this report.

Approved By:

John Teh

John Yeh / Asst. ManagerTesting Laboratory
0513

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/20009	Rev.00	Original.	Mar. 26, 2020	Revised By: Karen Huang

Note:

1. Multiple Model numbers or Trademarks

The variant model numbers are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

2. Disclaimer

Variant information among model numbers is provided by the applicant,

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 General Information

Product Name:	Wired Remote Controller
Brand Name:	Daikin
FCC Model No.:	BRC1H**** (* can 0 to 9 or A to Z or blank for marketing use only)
IC Model No.:	BRC1H71W
FCC Model Difference:	For marketing purpose
Hardware Version:	N/A
Software Version:	N/A
BT Module:	Model No.: 59007, Supplier: Universal Electronics Inc.
Power Supply:	17.6Vdc from DC power supply

1.2 Maximum Output power

The Max. output power value is derived from test report.

Bluetooth	Report Number:	ER/2017/A0031
	Issue date:	Nov. 03, 2017
	Test Lab:	SGS Taiwan Ltd. Electronics & Communication Laboratory

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2 RF EXPOSURE

2.1 Standard Applicable:

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Portable device with its physical nature to be used nearby, the distance between radiating structure and human is less than 20cm.

As per KDB 447498 D01 4.3.1, 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:

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

2.2 Measurement Result:

Step 1:

This is a portable device and the max. output power including tune-up tolerance is 5.212 (mW), lower than the threshold given and derived as formula given above, where

$$=5.212(\text{mW})/5(\text{mm}) \cdot \sqrt{2.442 (\text{GHz})} = 1.629 < 7.5$$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result
2442	7.17	5.212	5	1.629

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

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The table of quick reference in terms of power threshold

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

Note that the table present above is the table of quick reference, indexing the level of power threshold with respect to the corresponding frequency. The value of the index may be deviated, and therefore, the derivation of exemption based on KDB447498 D01 is used in this test report, relevantly.

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