

# RF Exposure Evaluation Report

Product Name : BT Remote Control

Model No. : RCU 2

FCC ID : 2AK4D-RCU2

Applicant : Dynaudio A/S

Address : Sverigesvej 15, 8660 Skanderborg, Denmark

Date of Receipt : Mar. 03, 2021

Date of Declaration : Jun. 08, 2021

Report No. : 2130516R-E3082100014

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Jun. 08, 2021

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|                     |                                           |                                                                                                                                     |
|---------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | BT Remote Control                         |                                                                                                                                     |
| Applicant           | Dynaudio A/S                              |                                                                                                                                     |
| Address             | Sverigesvej 15, 8660 Skanderborg, Denmark |                                                                                                                                     |
| Manufacturer        | Dynaudio A/S                              |                                                                                                                                     |
| Model No.           | RCU 2                                     |                                                                                                                                     |
| FCC ID.             | 2AK4D-RCU2                                |                                                                                                                                     |
| Trade Name          | DYNAUDIO                                  |                                                                                                                                     |
| Applicable Standard | KDB 447498 D01 v06                        | <input type="checkbox"/> Minimum test separation distance $\geq 20$ cm<br><input checked="" type="checkbox"/> For low power devices |
| Test Result         | Complied                                  |                                                                                                                                     |

Documented By :

*Ida Tung*

( Adm. Specialist / Ida Tung )

Tested By :

*wenLee*

( Supervisor / Wen Lee )

Approved By :

*Tim Sung*

( Manager / Tim Sung )

## **Revision History**

| Report No.           | Version | Description              | Issued Date   |
|----------------------|---------|--------------------------|---------------|
| 2130516R-E3082100014 | V1.0    | Initial issue of report. | Jun. 08, 2021 |

## 1. GENERAL INFORMATION

### 1.1. EUT Description

|                    |                                   |
|--------------------|-----------------------------------|
| Product Name       | BT Remote Control                 |
| Trade Name         | DYNAUDIO                          |
| Model No.          | RCU 2                             |
| FCC ID.            | 2AK4D-RCU2                        |
| Frequency Range    | 2402-2480MHz                      |
| Channel Number     | 40CH                              |
| Type of Modulation | GFSK                              |
| Channel Control    | Auto                              |
| Antenna Type       | Print on PCB Antenna              |
| Antenna Gain       | Refer to the table “Antenna List” |

### 1.2. Antenna List

| No. | Manufacturer                              | Part No.               | Antenna Type         | Peak Gain            |
|-----|-------------------------------------------|------------------------|----------------------|----------------------|
| 1   | Shenzhen MDK Digital Technology Co., Ltd. | MDK3016-RTL8752CRF-ANT | Print on PCB Antenna | -5.11dBi for 2.4 GHz |

## 2. RF Exposure Evaluation

### 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.

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1  $(\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0)$ , SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 2450MHz and antenna separation distance = 5mm,  
SAR Test Exclusion Threshold = 10mW

| Frequency Band | Maximum peak output power |      | SAR Test<br>Exclusion Threshold | Calculated Threshold Value<br>( $\leq 3.0$ SAR is not required) |
|----------------|---------------------------|------|---------------------------------|-----------------------------------------------------------------|
|                | (dBm)                     | (mW) | (mW)                            |                                                                 |
| 2480MHz        | 6.01                      | 3.99 | 10                              | 1.257                                                           |

Note1: The SAR/MPE measurement is not necessary.

Note2: The Maximum Peak EIRP power is refer to report No.: 2130516R-E3032110108 from the DEKRA.