

## ASSESSMENT REPORT

### FCC 47 CFR § 2.1093 ASSESSMENT REPORT:

### Radiofrequency radiation exposure evaluation.

**Petitioner's Reference:** Servicios de Radio Wavenet

Customer Address: Pol. Ind. Requena, N79, 45214 Cedillo del Condado, Toledo

Represented by: Julián Peral Alonso

**Equipment:** Neso 2.4-A

|         |                 |        |            |
|---------|-----------------|--------|------------|
| Brand:  | Wavenet         | Model: | Neso 2.4-A |
| FCC ID: | 2BC55NESO24-23H |        |            |

**Result: complies**

It has been tested and complies the standard specifications Applicable / s.  
See specifications applied on this report.

#### Applicable Standards

FCC 47CFR Part 2 Subpart J Section § 2.1093

**Date of issue:** Bellaterra, May 22, 2024

The results refer only and exclusively to the sample, product or material delivered for testing in "Received Material" section below. The equipment has been tested under conditions stipulated by standard(s) quoted in this document.  
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## 1. EQUIPMENT RECEIVED AND TESTED

| EQUIPMENT SPECIFICATIONS                                  |                                         |
|-----------------------------------------------------------|-----------------------------------------|
| <b>Brand:</b> Wavenet                                     | <b>Model:</b> Neso 2.4-A                |
| <b>HW Version:</b> Neso 2.4-A                             | <b>Power Supply Range:</b> 90 – 240 VAC |
| <b>FW version:</b> 2.3.1.1                                |                                         |
| <b>Product description:</b><br><i>IEM/IFB TRANSMITTER</i> |                                         |
| <b><u>RF FEATURES:</u></b><br><br>BLE                     |                                         |

### 1.1 Assessment configuration

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| <b>Power Supply:</b>        | 120 VAC, 60Hz                                                            |
| <b>Set-up:</b>              | Table-top                                                                |
| <b>Assessment exercise:</b> | All results contained in this report are obtained according FCC § 2.1093 |

### 1.2 Auxiliary and control equipment

### 1.3 Input/output wires

AC Supply cable.

## 2. EN 62311 REQUIREMENT

### 2.1. GENERAL INFORMATION

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General RF Exposure Guidance v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

### 2.2. LIMIT

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

|               |        |        |           |     |
|---------------|--------|--------|-----------|-----|
| 0.3 – 3.0     | 614    | 1.63   | *(100)    | ≤6  |
| 3.0 - 30      | 1842/f | 4.89/f | *(900/f²) | <6  |
| 30 - 300      | 61.4   | 0.163  | 1.0       | <6  |
| 300 - 1500    | -      | -      | f/300     | <6  |
| 1500 - 100000 | -      | -      | 5         | <6  |
| 0.3 – 1.34    | 614    | 1.63   | *(100)    | <30 |
| 1.34 - 30     | 824/f  | 2.19/f | *(180/f²) | <30 |
| 30 - 300      | 27.5   | 0.073  | 0.2       | <30 |
| 300 - 1500    | -      | -      | f/1500    | <30 |
| 1500 - 100000 | -      | -      | 1.0       | <30 |

## 3. TEST RESULT

| Mode          | Channel | Frequency (MHz) | Peak (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Power Density at 20 cm [mW/cm²] | Power Density Limits [mW/cm²] | Result |  |
|---------------|---------|-----------------|------------|--------------------|------------|---------------------------------|-------------------------------|--------|--|
| Bluetooth     | 37      | 2402            | 24,513     | 5,0                | 29,51      | 0,12                            | 1                             | PASS   |  |
| Bluetooth     | 17      | 2440            | 22,861     | 5,0                | 27,86      | 0,11                            | 1                             | PASS   |  |
| Bluetooth     | 39      | 2480            | 21,613     | 5,0                | 26,61      | 0,11                            | 1                             | PASS   |  |
|               |         |                 |            |                    |            |                                 |                               |        |  |
| Distance (cm) | 20      |                 |            |                    |            |                                 |                               |        |  |

The device is exempt from the SAR test and satisfies RF exposure evaluation.

Equation used for Power Density: 
$$S = \frac{EIRP}{4 * \pi * d^2}$$