

# Test report

**Number** **T251-0508/25** **Project file:** C20242750  
**Date:** 2025-07-14  
**Pages:** 7

**Product:** **Wireless charger**

**Type reference:** **buzzard bird40A**

**Ratings:** Input: WPT (Magnetic field)  
Output: 18 – 60 V d.c.  
Class III

**Trademark:** multipowr

**Applicant:** **Multipowr NV**  
**Finlandstraat 11, 9940 Evergem, Belgium**

**Manufacturer:** Multipowr NV  
Finlandstraat 11, 9940 Evergem, Belgium

**Place of manufacture:** Simonyi Technology  
Hunyadi út 28, 2699 Szugy, Hungary

## Summary of testing

**Testing method:** Antenna pattern measurements

**Testing location:** SIQ Ljubljana  
Mašera-Spasičeva ulica 10, SI-1000 Ljubljana, Slovenia

**Remarks:** Date of receipt of test items: 2025-02-10  
Number of items tested: 1  
Date of performance of tests: 2025-06-16  
The test results presented in this report relate only to the items tested.  
The test items were tested in the condition as received.  
The product complies with the requirements of the testing methods.

Tested by: Luka Cvajnar

Approved by: Marjan Mak

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## 1 GENERAL

History sheet			
Date	Report No.	Change	Revision
2025-07-14	T251-0508/25	Initial Test Report issued.	--

### Environmental conditions:

Ambient temperature: 15 °C to 35 °C

Relative humidity: 30 % to 60 %

Atmospheric pressure: 860 mbar to 1060 mbar

### 1.1 Equipment under test

#### Wireless charger

Type: **buzzard bird40A**

FCC ID: **2BOHG-B04000001**

Contains FCC ID: **A8TBM78ABCDEFGH**

Device is a wireless charger for industrial trolleys.

#### Equipment Description

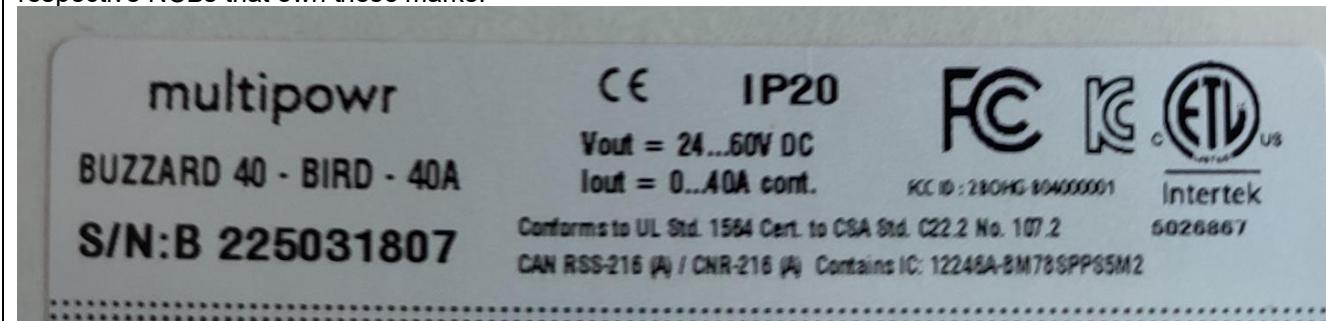
<b>Hardware version :</b>	Rev 5.0
<b>Firmware version :</b>	2.1.1.7
<b>SIQ tested number :</b>	S202500837
<b>Operating frequency:</b>	290 kHz and 330 kHz
<b>One/two/three phase EUT:</b>	Battery powered 20 -58 V d.c.
<b>Floor standing / table-top equipment or a combination:</b>	Floor standing
<b>Built in BLE module</b>	
<b>Manufacturer:</b>	Microchip Technology Inc.
<b>Type</b>	RN4678
<b>Hardware version:</b>	Rev 1.0/ 1522
<b>Firmware version:</b>	1.005

#### EUT Internal Frequencies

Frequency	Description
290&330 kHz	NFC Transmitter
2.4835 GHz	Bluetooth 5.0 module

#### Copy of marking plates (examples):

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



## 1.2 Antenna pattern measurement

### 1.2.1 Test procedure

The radiation pattern at 290 kHz and 330 kHz has been measured in an anechoic chamber with 3 meters test distance. Test results show maximum radiation pattern.

## 1.3 Test results

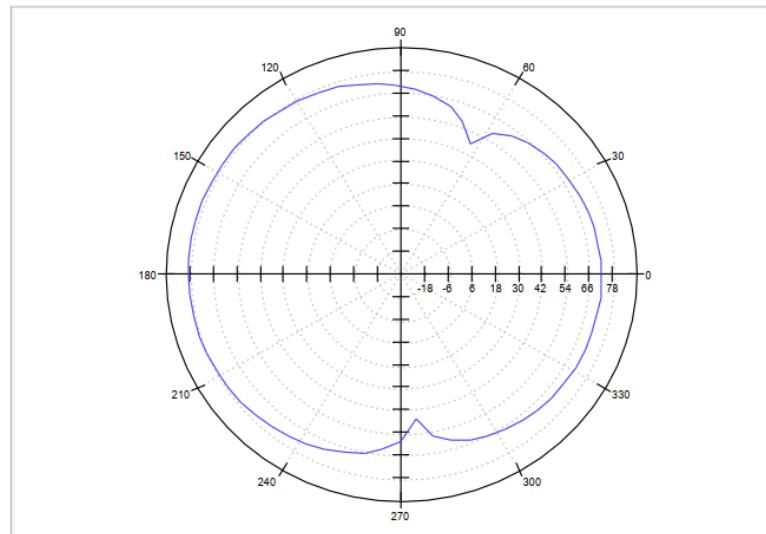
### EUT Information

EUT: BIRD40A  
Operating Mode: TX: 290 kHz  
Antenna polarization: Coaxial

### AziChart MinMax Eval

Frequency (MHz)	Max. Value (dB $\mu$ V/m)	Azimuth max. (deg)	Pol max.	Min. Value (dB $\mu$ V/m)	Azimuth min. (deg)	Pol min.
0.290000	78.93	170	H	46.80	276	H

Azimuth Chart: Horizontal



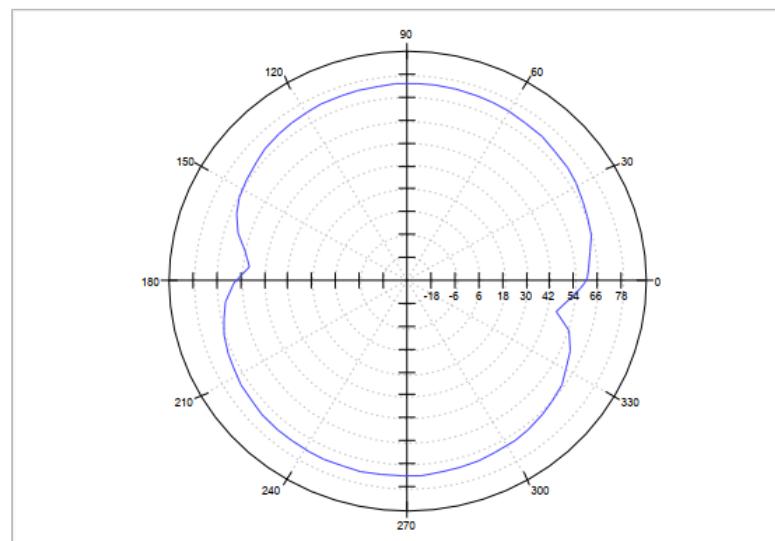
### EUT Information

EUT: BIRD40A  
Operating Mode: TX: 290 kHz  
Antenna polarization: Coplanar

### AziChart MinMax Eval

Frequency (MHz)	Max. Value (dB $\mu$ V/m)	Azimuth max. (deg)	Pol max.	Min. Value (dB $\mu$ V/m)	Azimuth min. (deg)	Pol min.
0.290000	73.03	87	H	47.21	348	H

Azimuth Chart: Horizontal



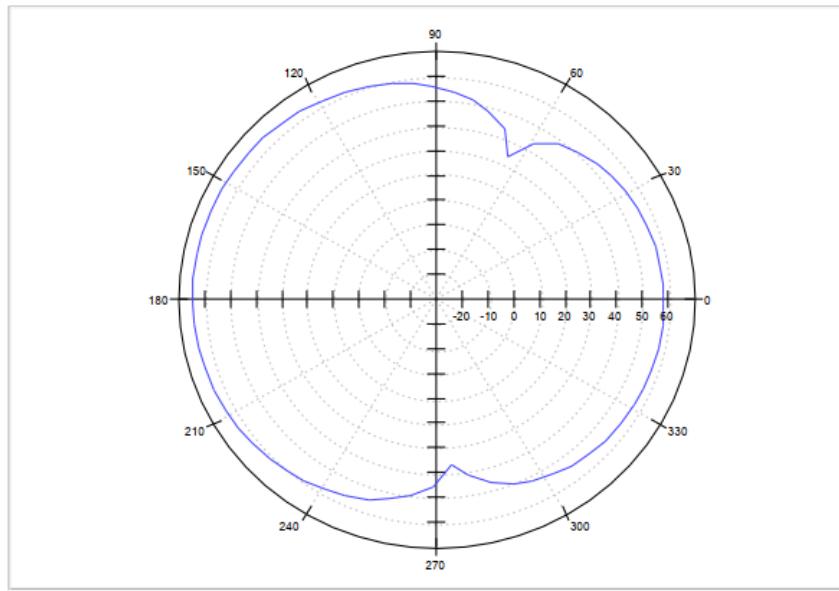
**EUT Information**

EUT: BIRD40A  
 Operating Mode: TX: 330 kHz  
 Antenna polarization: Coaxial

**AziChart MinMax Eval**

Frequency (MHz)	Max. Value (dB $\mu$ V/m)	Azimuth max. (deg)	Pol max.	Min. Value (dB $\mu$ V/m)	Azimuth min. (deg)	Pol min.
0.330000	64.79	175	H	33.84	64	H

Azimuth Chart: Horizontal

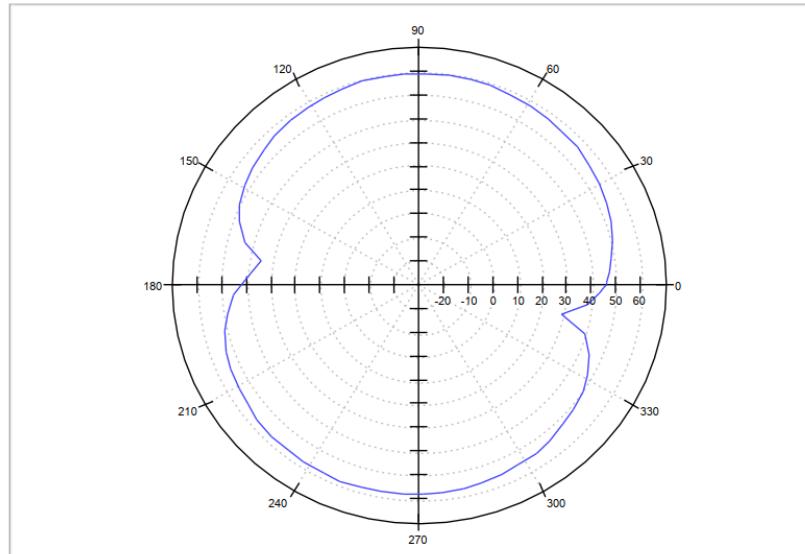
**EUT Information**

EUT: BIRD40A  
 Operating Mode: TX: 330 kHz  
 Antenna polarization: Coplanar

**AziChart MinMax Eval**

Frequency (MHz)	Max. Value (dB $\mu$ V/m)	Azimuth max. (deg)	Pol max.	Min. Value (dB $\mu$ V/m)	Azimuth min. (deg)	Pol min.
0.330000	58.91	82	H	29.06	348	H

Azimuth Chart: Horizontal



**2 USED TEST EQUIPMENT**

Manufacturer	Model No.	Used	Calibrated	Calibrated until
Comtest engineering, SAC2 (together with controlling equipment)	SAC 3m	X	2025-03-27	2028-03-27
Maturo, Turn table (2 m diameter)	TT 2.0 SI	X	/	/
Maturo, Bore-sight antenna mast	BAM-4.0-P	/	/	/
Maturo, positioning equipment	NCD	X	/	/
Rohde & Schwarz, RFI receiver	ESW 44		2024-09-26	2026-03-26
Schwarzbeck, Loop Antenna	FMZB 1519 B	X	2024-09-18	2026-03-18

**-----END OF TEST REPORT-----**