



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Bird Technologies

Model: DDR1-M1-ANW-C

Description: Public Safety Fiber DAS remote

Serial Number: 20030

FCC ID: EZZDDR406

To

FCC Part 1.1310

Date of Issue: June 3, 2020

On the behalf of the applicant:

**Bird Technologies
30303 Aurora Road
Solon, OH 44139**

Attention of:

**Amy Sanvido,
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**Prepared By
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Project No: p2050004**

**Poona Saber
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	June 3, 2020	Poona Saber	Original Document



ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless below

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

Model: DDR1-M1-ANW-C

Description: Public Safety Fiber DAS remote

Firmware: N/A

Software: N/A

Serial Number: 20030

Additional Information:

System under test is a Fiber-Das system



MPE Evaluation

This is a mobile device used in Uncontrolled Exposure environment.

Limits Uncontrolled Exposure
47 CFR 1.1310
Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Test Frequency, MHz	406
Power, Conducted, mW (P)	2512
Antenna Gain Isotropic	3.5 dBi
Antenna Gain Numeric (G)	2.23
Antenna Type	Omni
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm ²

Power Density (S) =1.11
Limit = (from above table) = 0.271



Minimum Safe Distance Evaluation

This is a mobile device used in Uncontrolled Exposure environment.

Limits Uncontrolled Exposure
47 CFR 1.1310
Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Test Frequency, MHz	406
Power, Conducted, mW (P)	2512
Antenna Gain Isotropic	3.5 dBi
Antenna Gain Numeric (G)	2.23
Antenna Type	Omni
Limit (L)	0.271

$R = \sqrt{(PG/4\pi L)}$			
Distance (R) cm	Power mW (P)	Numeric Gain (G)	Limit (L)
40.56	2512	2.23	0.271

Note: Max output power value is obtained from operational description.

Since the Power density is more than the limit at 20 Cm the minimum distance from EUT to user's body shall be at least 40.56 to meet the uncontrolled exposure limit.

END OF TEST REPORT