MPE/RF EXPOSURE TEST REPORT

FCC CFR 47 Part 1.1310

REPORT No:. RDWN64-U2_MPE Rev A

Company: Radwin Ltd.

Model Name: RADWIN JET DUO 5.x/5.x GHz

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To: FCC CFR 47 Part 1.1310

Test Report Serial No.: RDWN64-U2_MPE Rev A

This report supersedes: NONE

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Issue Date: 12th September 2019

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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm^2) = EIRP/(4*π*d^2)
EIRP = P * G
P = Peak output power (mW)
G = Antenna numeric gain (numeric)
d = Separation distance (cm)
Numeric Gain = 10 ^ (G (dBi)/10)
The calculations in the table below use the highest conducted power values together with the lowest antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

The calculations in the table below use the highest conducted power value together with the *highest* antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels. The Radio System, can transmit simultaneously, but not on same channel.

Outdoor System – Professional Installation

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm^2) @ 20cm	Power Density Limit (mW/cm^2)	Min Calculated safe distance for Limit (cm)
5150-5250	7.0	5.01	28.75	749.89	0.748	5.00	11.96
5150-5250	7.0	5.01	28.69	739.61	0.737	5.00	11.79
5725 - 5850	9.0	7.94	26.97	497.74	0.787	5.00	12.57
5725- 5850	9.0	7.94	26.77	475.34	0.751	5.00	12.01

The following assessments are worst case exposure conditions where the RADWIN JET DUO 5.x/5.x GHz contains 2 radio modules:- 2 x 5GHz 802.11 with both radios transmitting simultaneously;-

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance for Summation (cm)	Power Density Limit (mW/cm^2) E_{ref}	Power Density (mW/cm^2) @5cm	Summation $E_i/E_{ref\ @\ 20\ cm}$
5725 - 5850	9.0	7.94	26.97	497.74				
5725- 5850	9.0	7.94	26.77	475.34				
EIRP TOTAL (mW/EIRP) :				**7726.3**	**20 cm distance Total Evaluation:**			**1.54 mW/cm^2**

Note: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

Specification

Maximum Permissible Exposure Limits – Professional Installation

FCC §1.1310 Table 1
1500 to 100,000MHz = 5 mW/cm2

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