

Company: Radwin Ltd

Test of: Outdoor Subscriber Radio Unit

To: FCC CFR 47 Part 15 Subpart E 15.407

Report No.: RDWN41_MPE Rev A

MPE TEST REPORT



MPE TEST REPORT



Test of: Radwin Ltd. Outdoor Subscriber Radio Unit

to

To: FCC CFR 47 Part 15 Subpart E 15.407

Test Report Serial No.: RDWN41_MPE Rev A

This report supersedes: NONE

Applicant: Radwin Ltd.
27 Habarzel Street
Tel Aviv, 69710
Israel

Product Function: Outdoor Subscriber Radio Unit

Issue Date: 13th July 2016

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
575 Boulder Court
Pleasanton California 94566
USA
Phone: +1 (925) 462-0304
Fax: +1 (925) 462-0306
www.micomlabs.com



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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = P_d (mW/cm²) = $EIRP / (4 * \pi * d^2)$

$EIRP = P * G$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = $10^{(G \text{ (dBi)}/10)}$

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm²

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.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm ²	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
5725.0 - 5850.0	16.00	39.81	29.06	805.37	50.51	6.38	50.51
5150.0 - 5250.0	16.00	39.81	28.54	715.30	47.60	5.67	47.60
4945.0 - 4985.0	14.00	25.12	20.65	116.14	15.24	0.58	15.24
2400.0 - 2483.5	3.00	2.00	25.74	374.97	7.72	0.15	20.00

Assessment for simultaneous operation:

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm ²	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
5725.0 - 5850.0	16.00	39.81	29.06	805.37			
2400.0 - 2483.5	3.00	2.00	25.74	374.97			
EIRP TOTAL (mW/EIRP) : 32810.9					51.10	6.53	51.10

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



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Specification
Maximum Permissible Exposure Limits

FCC §1.1310 Limit = $1\text{mW} / \text{cm}^2$ from 1.310 Table 1

RSS-Gen §3.2 In addition to RSS-Gen, the requirements in Radio Standards Specification RSS-102 shall be met.

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575 Boulder Court
Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com