



MPE/RF EXPOSURE TEST REPORT

FCC CFR 47 Part 1.1310

TEST REPORT: MIKO95_MPE_FCC Rev A

Company: Mikrotiks SIA (MikroTik)

Model: RBD23UGS-5HPacD2HnD-NM-US

Marketing Name: NetMetal ac²

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Model: RBD23UGS-5HPacD2HnD-NM-US

To: FCC CFR 47 Part 1.1310

Test Report Serial No.: MIKO95 Rev A MPE

This report supersedes: NONE

Applicant: Mikrotikls SIA (MikroTik)
Brivibas gatve 214i
Riga, LV-1039
Latvia

Issue Date: 19th December 2019

This Test Report is Issued Under the Authority of:

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

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 Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)	Calculated Power Density (mW/cm ²) @ Safe Distance
2400.0 - 2483.5	5.00	3.16	24.25	266.25	0.17	1.00	9.00	1.00
5150.0 - 5250.0	19.00	79.43	16.80	47.82	0.76	1.00	18.00	1.00
5725.0 - 5850.0	19.00	79.43	16.74	47.16	0.75	1.00	18.00	1.00

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

The Limit is defined in Table 1 of FCC §1.1310.



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