| Mikrotik | MDE EII | Model: RB953GS-5HnT | Test Number | | | |
|----------------------|---|--|------------------------------------|----------------------------|---------------------|------------------|
| MPE Calculator | | RP for calculation. EIRP is based | | enna gain in dBi. | | |
| | | compared to an isotropic radiate | or. | | | |
| | S = power de | nsity in mW/cm^2 | | | | _ |
| | | | | | Antenna Gain (dBi) | 31 |
| | | Output Power | | dBd + 2.17 = dBi | dBi to dBd | |
| Tx Frequency (MHz) | 5785 | Maximum (Watts) | 0.996000 | A | antenna Gain (dBd) | 29.83 |
| Cable Loss (dB) | 0.0 | (dBm) | 29.98 | Antenna | a minus cable (dBi) | 32.0 |
| | | | | | | |
| | ulated ERP (mw) | | | EIRP = Po(dBM) + Gain (dB) | ti a CERRY ID | 61.00 |
| Calculated EIRP (mw) | | 1578553.620 | | | diated (EIRP) dBm | 61.98 |
| • | . 17: 4 | Power density (S) | | ERP = EIRP - 2.17 dB | T . 1 (EDD) 4D | 50.01 |
| | ipational Limit | | | Ka | diated (ERP) dBm | 59.81 |
| | 00 mW/cm ² | EIRP | | | | |
| 50.000 | 00 W/m^2 | = mW/cm^2 | | | | |
| Gene | eral Public Limit | 4 p r^2 | | | | |
| 1.000 | 00 mW/cm^2 | r (cm) EIRP (mW) | | | | |
| 10 000 | 00 W/m ² | r (cm) End (mw) | | | | |
| 20.000 | *************************************** | FCC radio freque | ency radiation exposure limits per | 1.1310 (mW/cm2) | | |
| | | Frequency (MHz) | Occupational Limit | Public Limit | | |
| | | 300-1,500 | f/300 | f/1500 | | |
| | | 1,500-10,000 | 5 | 1 | | |
| | | 1,500 10,000 | | • | | |
| | | FCC radio frequency radiation exposure limits per 1.1310 | | | | |
| | | Frequency (MHz) | Occupational Limit | Public Limit | | |
| | | 300-1,500 (mW/cm2) | 19.28333333 | 3.85666667 | - | |
| | | - ' ' | 192.8333333 | | - | |
| | | 300-1,500 (W/m2) 1,500-10,000 (mW/cm2) | 192.8333333 | 38.56666667 | | |
| | | 1,500-10,000 (mw/cm2) | 50 | 10 | | |
| | | 1,500-10,000 (W/m2) | 50 | 10 | | |
| EIRP | S | S | Distance | Distance | Distance | Distance |
| milliwatts | mW/cm ² | W/m ² | cm | meter | inches | Feet |
| 1578553.620 | _ | | | | | |
| | 0.50247 | 5.02469 | 500.00 | 5.00 | 196.85 | 0.42 |
| 1578553.620 | 0.78511 | 7.85108 | 400.00 | 4.00 | 157.48 | 0.33 |
| 1578553.620 | 0.89328 | 8.93279 | 375.00 | 3.75 | 147.64 | 0.31 |
| 1578553.620 | 0.99676 | 9.96765 | 355.00 | 3.55 | 139.76 | 0.30 |
| 1578553.620 | 1.02545 | 10.25447 | 350.00 | 3.50 | 137.80 | 0.29 |
| 1578553.620 | 1.18928 | 11.89276 | 325.00 | 3.25 | 127.95 | 0.27 |
| 1578553.620 | 1.39575 | 13.95748 | 300.00 | 3.00 | 118.11 | 0.25 |
| 1578553.620 | 1.66106 | 16.61055 | 275.00 | 2.75 | 108.27 | 0.23 |
| 1578553.620 | 2.00988 | 20.09877 | 250.00 | 2.50 | 98.43 | 0.21 |
| 1578553.620 | 2.48133 | 24.81329 | 225.00 | 2.25 | 88.58 | 0.19 |
| 1578553.620 | 3.14043 | 31.40433 | 200.00 | 2.00 | 78.74 | 0.17 |
| 1578553.620 | 4.10179 | 41.01790 | 175.00 | 1.75 | 68.90 | 0.15 |
| 1578553.620 | 4.90693 | 49.06926 | 160.00 150.00 | 1.60 | 62.99 | 0.13 |
| 1578553.620 | 5.58299 | 55.82991 | | 1.50 | 59.06 | 0.13 |
| 1578553.620 | 8.03951 | 80.39508 | 125.00 | 1.25 | 49.21 | 0.10 |
| 1578553.620 | 12.56173 | 125.61731 | 100.00 | 1.00 | 39.37 | 0.08 |
| 1578553.620 | 22.33197 | 223.31965 | 75.00 | 0.75 | 29.53 | 0.06 |
| | | | Occupational Limit minimum | Occupational Limit minimum | Public Limit | Public Limit |
| | | | Distance | Distance | minimum | minimum distance |
| | | Frequency (MHz) | (meters) | (cm / inches) | distance (meters) | (cm / inches) |
| | | 300-1,500 | N/A | N/A | N/A | N/A |
| | | 1,500-10,000 | | 160 / 63 | 3.55 | 355 / 140 |

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1

Mikrotikls SIA

Model: RouterBOARD 953GS-5HnT

Test #: 140605

Test to: CFR47 (15.247) File: RFExp RB953GS5HnT SN: 49C5028C45D2/421 FCC ID#: TV7RB953GS-5HNT

Date: June 26, 2014

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