| Mikrotik | Model: cAP | | Test Number: | 160714 | | |
|-----------------------|---|--|--------------------------------------|------------------------------------|---------------------------|---------|
| MPE Calculator | | EIRP is based on TX power added to the a | ntenna gain in dBi. | | | |
| | dBi = dB gain compared to an | | | | | |
| | S = power density in mW/cm ² | ^2 | | | | |
| | | | | | Antenna Gain (dBi) | |
| | | Output Power | | dBd + 2.17 = dBi | dBi to dBd | |
| Tx Frequency (MHz) | 2437 | Maximum (Watts) | 0.048 | | Antenna Gain (dBd) | 0.5 |
| Cable Loss (dB) 5 50 | 0.0 | (dBm) | 16.8 | | Antenna minus cable (dBi) | 2.7 |
| | Calculated ERP (mw) | 54 230 | | EIRP = Po(dBM) + Gain (dB) | | |
| | Calculated EIRP (mw) | | | Elici – Fo(ubivi) + Gaiii (ub) | Radiated (EIRP) dBm | 19.51 |
| | Culculated Elife (IIII) | Power density (S) | | ERP = EIRP - 2.17 dB | radated (Erra) abit | 1,,,,,, |
| | | Fower density (3) | | | Radiated (ERP) dBm | 17.34 |
| | | EIRP | | | | |
| | | = mW/cm^2 | | | | |
| | | 4 p r^2 | | | | |
| | | EIRP (mW), r (cm) | | | | |
| | Occupational Limit | FCC radio frequ | ency radiation exposure limits per 1 | .1310 | | |
| | | Frequency (MHz) | Occupational Limit (mW/cm²) | Public Limit (mW/cm ²) | | |
| | | 300-1,500 | f/300 | f/1500 | | |
| | General Public Limit | 1,500-10,000 | 5 |] | | |
| 1 | mW/cm ² | -,2 10,000 | | | | |
| 10 | | | | | | |
| 10 | W/III | | | | | |
| | | | | | | |
| | Occupational Limit | | cy radiation exposure limits per RSS | | | |
| $0.6455f^{0.5}$ | W/m ² | Frequency (MHz) | Occupational Limit (W/m²) | Public Limit (W/m ²) | | |
| 31.86574 | | 100-6,000 | $0.6455f^{0.5}$ | | | |
| 0.6924 | General Public Limit | 6,000-15,000 | 50 | | | |
| $0.02619 f^{0.6834}$ | W/m ² | 48-300 | | 1.291 | | |
| 5.40397 | W/m ² | 300-6,000 | | $0.02619f^{0.6834}$ | | |
| | | 6,000-15,000 | 50 | 10 | | |
| EIRP | S | S | Distance | Distance | Distance | Distanc |
| milliwatts | mW/cm ² | W/m ² | cm | meter | inches | Feet |
| 89.380 | 0.00088 | 0.00878 | 90.00 | 0.90 | 35.43 | 2.95 |
| 89.380 | 0.00088 | 0.00878 | 80.00 | 0.80 | 31.50 | 2.62 |
| 89.380 | 0.00145 | 0.01452 | 70.00 | 0.70 | 27.56 | 2.30 |
| 89.380 | 0.00198 | 0.01976 | 60.00 | 0.60 | 23.62 | 1.97 |
| 89.380 | 0.00285 | 0.02845 | 50.00 | 0.50 | 19.69 | 1.64 |
| 89.380 | 0.00445 | 0.04445 | 40.00 | 0.40 | 15.75 | 1.31 |
| 89.380 | 0.00790 | 0.07903 | 30.00 | 0.30 | 11.81 | 0.98 |
| 89.380 | 0.01778 | 0.17782 | 20.00 | 0.20 | 7.87 | 0.66 |
| 89.380 | 0.04209 | 0.42087 | 13.00 | 0.13 | 5.12 | 0.43 |
| 89.380 89.380 | 0.11114 0.17921 | 1.11135 1.79205 | 8.00 6.30 | 0.08 0.063 | 3.15 2.48 | 0.26 |
| 89.380 | 0.23513 | 2.35129 | 5.50 | 0.065 | 2.48 | 0.21 |
| 89.380 | 0.28451 | 2.84506 | 5.00 | 0.050 | 1.97 | 0.16 |
| 89.380 | 0.44454 | 4.44541 | 4.00 | 0.040 | 1.57 | 0.13 |
| 89.380 | 0.79029 | 7.90294 | 3.00 | 0.030 | 1.18 | 0.10 |
| 89.380 | 1.77816 | 17.78162 | 2.00 | 0.020 | 0.79 | 0.07 |
| 89.380 | 7.11265 | 71.12649 | 1.00 | 0.010 | 0.39 | 0.03 |
| | | | | | | |
| | | E 0.571 \ | Occupational Limit minimum | Public Limit minimum distance | | |
| | | Frequency (MHz) | war a constant | | | |
| | | Frequency (MHz) 47CFR 1.1310 | Distance (meters) 0.20 | (meters) 0.20 | | |

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Mikrotikls SIA Model: RBcAP2nD Test #: 160714

Test to: 47CFR 15.247, RSS-247 File: RBcAP2nD RFExp

S/N: 69FE01DC4C2C/611 FCC ID#: TV7RBCM2ND IC: 7442A-CM2ND

Date: August 5, 2016

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