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|--|---|------------------|----------|----------------------------|----------|----------|
| SAF Tehnika | FreeMile 5.8 | Test Number: | 120209 | | | |
| Model: | Z05FEE01 and Z05FEE02 | | | | | |
| MPE Calculator | MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi. dBi = dB gain compared to an isotropic radiator. S = power density in mW/cm ² | | | | | |
| | | Output Power | | Antenna Gain (dBi) | 32 | |
| | | | | dBi to dBd | 2.2 | |
| Tx Frequency (MHz) | 5785 | Maximum (Watts) | 0.5834 | Antenna Gain (dBd) | 29.83 | |
| Cable Loss (dB) | 0.0 | (dBm) | 27.66 | Antenna minus cable (dBi) | 32.00 | |
| Calculated ERP (mw) | 561047.976 | | | EIRP = Po(dBM) + Gain (dB) | | |
| Calculated EIRP (mw) | 924698.174 | | | Radiated (EIRP) dBm | 59.660 | |
| Occupational Limit | | | | ERP = EIRP - 2.17 dB | | |
| 5.00000 mW/cm ² | | | | Radiated (ERP) dBm | 57.490 | |
| 50.00000 W/m ² | | | | | | |
| General Public Limit | | | | | | |
| 1.00000 mW/cm ² | | | | | | |
| 10.00000 W/m ² | | | | | | |
| FCC radio frequency radiation exposure limits per 1.1310 | | | | | | |
| Frequency (MHz) | | | | | | |
| Occupational Limit | | | | | | |
| Public Limit | | | | | | |
| 300-1,500 | | | | | | |
| f/300 | | | | | | |
| f/1500 | | | | | | |
| 1,500-10,000 | | | | | | |
| 5 | | | | | | |
| 1 | | | | | | |
| FCC radio frequency radiation exposure limits per 1.1310 | | | | | | |
| Frequency (MHz) | | | | | | |
| Occupational Limit @ Tx Freq | | | | | | |
| Public Limit @ Tx Freq (mW/cm ²) | | | | | | |
| 300-1,500 (mW/cm2) | | | | | | |
| 19.28333333 | | | | | | |
| 3.856666667 | | | | | | |
| 300-1,500 (W/m2) | | | | | | |
| 192.8333333 | | | | | | |
| 38.56666667 | | | | | | |
| 1,500-10,000 (mW/cm2) | | | | | | |
| 5 | | | | | | |
| 1 | | | | | | |
| 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 |
| 924698.174 | 0.29434 | 2.94341 | 500.00 | 5.00 | 196.85 | 0.42 |
| 924698.174 | 0.45991 | 4.59907 | 400.00 | 4.00 | 157.48 | 0.33 |
| 924698.174 | 0.60070 | 6.00695 | 350.00 | 3.50 | 137.80 | 0.29 |
| 924698.174 | 0.81761 | 8.17613 | 300.00 | 3.00 | 118.11 | 0.25 |
| 924698.174 | 1.00940 | 10.09398 | 270.00 | 2.70 | 106.30 | 0.23 |
| 924698.174 | 1.17736 | 11.77362 | 250.00 | 2.50 | 98.43 | 0.21 |
| 924698.174 | 1.45353 | 14.53534 | 225.00 | 2.25 | 88.58 | 0.19 |
| 924698.174 | 1.83963 | 18.39629 | 200.00 | 2.00 | 78.74 | 0.17 |
| 924698.174 | 2.40278 | 24.02780 | 175.00 | 1.75 | 68.90 | 0.15 |
| 924698.174 | 2.54620 | 25.46199 | 170.00 | 1.70 | 66.93 | 0.14 |
| 924698.174 | 2.70285 | 27.02852 | 165.00 | 1.65 | 64.96 | 0.14 |
| 924698.174 | 2.87442 | 28.74420 | 160.00 | 1.60 | 62.99 | 0.13 |
| 924698.174 | 3.06286 | 30.62857 | 155.00 | 1.55 | 61.02 | 0.13 |
| 924698.174 | 3.27045 | 32.70451 | 150.00 | 1.50 | 59.06 | 0.13 |
| 924698.174 | 3.49989 | 34.99888 | 145.00 | 1.45 | 57.09 | 0.12 |
| 924698.174 | 3.75434 | 37.54344 | 140.00 | 1.40 | 55.12 | 0.12 |
| 924698.174 | 4.94391 | 49.43909 | 122.00 | 1.220 | 48.03 | 0.10 |
| Frequency (MHz) | | | | | | |
| Occupational Limit minimum Distance (meters) | | | | | | |
| Occupational Limit minimum Distance (cm / inches) | | | | | | |
| Public Limit minimum distance (meters) | | | | | | |
| Public Limit minimum distance (cm / inches) | | | | | | |
| 300-1,500 | | | | | | |
| N/A | | | | | | |
| N/A | | | | | | |
| 1,500-10,000 | | | | | | |
| 1.22 | | | | | | |
| 122 / 48 | | | | | | |
| 2.70 | | | | | | |
| 270 / 106 | | | | | | |

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Revision 1

SAF Tehnika AS SAF FreeMile-5.8
Models: M/N: Z05FEE01 M/N: Z05FEE02
SN: 363710100002 SN: 365020200001
Test to: CFR47 15.247 and RSS-210
File: RFExp Freemile5

Test #: 120209
FCC ID: WZ9-FREEMILE5
IC: 8855A- FREEMILE5
Date: March 5, 2012
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