RF exposure requirements – FCC ID: QIPMC75I

Dear Examiner,

Siemens Cellular Engine MC75i is marketed without defined antenna. According to the limit in 47 CFR 1.1310, we get the value of the maximum antenna gain as follow:

The maximum measured power output in the 850 MHz band is 1737.80 mW (32.4dBm, see 7layers test report MDE_Siem_0712_FCCe).

The maximum permissible exposure is defined in 47 CFR 1.1310 with 0.55773 mW/cm².

The transmitter is using indoor antennas that operate at 20 cm or more from nearby persons.

The maximum antenna gain G is calculated using the general equation:

$$S = P*G/4\pi R^2$$

S = 0.55773 mW/cm²
P = 1737.80 mW
R = 20 cm
π = 3.1416

Solving for G; the maximum antenna gain is 2.0121 dBi.

Best Regards
7 layers AG

Holger Leutfeld

RF exposure requirements – FCC ID: QIPMC75I

Dear Examiner,

Siemens Cellular engine MC75i is marketed without defined antenna. According to the limit in 47 CFR 1.1310, we get the value of the maximum antenna gain as follow:

The maximum measured power output in the 1900 MHz band is 849.18mW (29.29 dBm, see 7layers test report MDE_Siem_0712_FCCf).

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm².

The transmitter is using indoor antennas that operate at 20 cm or more from nearby persons.

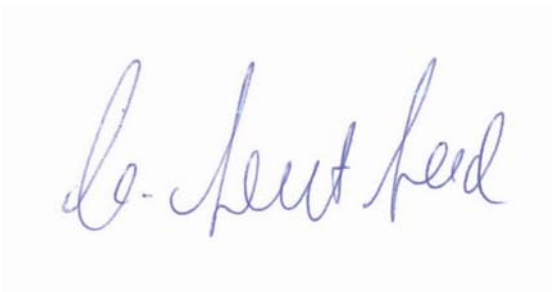
The maximum antenna gain G is calculated using the general equation:

$$S = P*G/4\pi R^2$$

S = 1 mW/cm²
P = 849.18 mW
R = 20 cm
π = 3.1416

Solving for G; the maximum antenna gain is 7.7227 dBi.

Best Regards
7 layers AG



Holger Leutfeld