

PHOENIX TESTLAB GmbH • Königswinkel 10 • D-32825 Blomberg

FCC
Federal Communications Commission

Königswinkel 10
D-32825 Blomberg, Germany
Phone +49(0)5235-9500-0
Fax +49(0)5235-9500-20
office@phoenix-testlab.de
www.phoenix-testlab.de

29 November 2007
Dr. Altmaier / KT

RF-exposure requirements - FCC ID IXLUDL500

Dear Application Examiner,

the maximum measured power output is 682.34 mW (28.34 dBm), the maximum antenna gain is + 6.2 dBi (numeric gain 4.17) (refer also FCC test report R70243 Edition 1).

The maximum permissible exposure is defined in 47 CFR 1.1310:
(B) Limits for General Population/Uncontrolled Exposure
Frequency Range: 300 MHz to 1500 MHz
Power Density (mW/cm²): f/1500

Calculated Power Density limit: 0.6015 mW/cm²

The Transmitter is using indoor antennas, which operate at 20 cm or more from nearby persons.

The maximum permitted level is calculated using the general equation:

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

With
P = 682.34 mW,
G = 4.17 (numeric gain),
R = 20 cm and
 $\pi = 3.1416$

the power density (S) at 20 cm distance is calculated to: S = 0.566 mW/cm².

So the limit of 0.6015 mW/cm² limit is kept.

Please contact us if you have any additional questions.

Best Regards