Report No. SC301832-03A



RADIATED EMISSIONS

DATA

FOR

KYOCERA WIRELESS 10300 Campus Point Drive San Diego, CA 92121

Prepared by

TÜV AMERICA 10040 Mesa Rim Road San Diego, CA 92121-2912

> Page 1 of 7 Rev.No 1.0

Report No. SC301832-03A



Measurement Requirements (CFR 47 Part 15, Paragraph 15.109(a))

The following measurements were performed by TÜV America. To the best of my knowledge these tests were conducted in accordance with the procedures outlined in Part 2 of the Commission's Rules and Regulations. The data presented below demonstrates compliance with the appropriate technical standards.

7R7lang

Floyd R. Fleury EMC Manager



Emissions Test Conditions: RADIATED EMISSIONS

Roof (small open area test site)

The Radiated Emissions measurements were performed using the following equipment:

Test Equipment Used:

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
HP8566B	720	Spectrum Analyzer	Hewlett Packard	2115A00842	07/02
AMF-5D-010180-35-10P	719	PreAmp	TUV America	549460	NCR*
Cable 1	731	30' Cable	United Microwave Prod		NCR*
Cable 2	756	10' Cable	United Microwave Prod		NCR*
Cable 3	6788	3' Cable	United Microwave Prod		NCR*
3115	251	Antenna, Horn	Electro Mechanics Co	2595	12/02
FF6549-2	783	2000 MHz High Pass Filter	Sage	008	NCR*

Remarks: One year calibration cycle for all test equipment and sites. (*) No Calibration Required.



Technical Documentation

Test Data Sheets

and

Test Setups

Page 4 of 7 Rev.No 1.0

TÜV AMERICA, INC. 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 858 546 3999 FAX 858 546 0364

noise floor Notes Antenna Height F Alan Laudani W SPEC: FCC Part 15 para 15. 109(a) 241 223 EUT Rotation 137 224 -18.4 -19.9 -15.7 -11.3 -8.6 -18 -23 -18 -18 -15 -8.3 1-10 ð MARGIN MHz and VBW 10 Hz for AVG (gp 3 Meters Roof -30.3 -25.1 -25.0 -30.5 -29 -25.3 -21.3 -17.7 NA N/A -32.9 -26.8 -25.9 -19.7 251 ž 8 54 54 54 222222 SPEC LIMIT 22222 (dBuV/m) pk av OTHER: TEST DIST: LOG TEST SITE: BICONICAL: 2 2 7 7 4 7 7 7 7 74 74 74 7 MAX LEVEL (dBuV/m) pk av 36.5 35.8 38.8 42.9 45.7 31.1 36.3 37.3 43.9 46.3 35.6 34.1 38.3 38.3 42.7 45.4 RBW 11 41.7 43.7 54.0 56.0 Above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1 CF = Antenna Factor + Cable Loss - Preamplifier 43.5 45.0 48.7 52.7 56.3 41.1 47.2 48.1 54.3 56.4 -6.14 CF (dB/m) 10.42 12.85 -6.27 -0.06 5.49 9.91 5.44 10.16 12.59 12.33 -6.01 -0.29 5.46 -0.17 HORIZONTAL (dBuv) pk av 37 35.1 30.9 33.5 33.3 40.0 34.2 32.8 32.8 33.0 41 34.9 32.4 33.1 TESTER: 47.4 47.1 46.2 42.6 43.9 42.9 43.8 42.2 44.1 43.4 48.1 45 43.3 43.3 43.7 Apr. 14, 2003 CUSTOMER: Kyocera Wireless Receive LO PCS ž 33.2 32.7 32.6 33.1 42.6 36 33.4 32.7 33.1 37.1 36.6 31.8 33.2 33.4 419 VERTICAL REPORT No: SC301832 ş KE4.3 48.0 43.3 43.4 43.9 43.7 49.6 (dBuv) 46.2 47.5 41.6 43.0 43.5 43.3 42.5 42.8 45.2 EUT MODE: 2114.85 229.70 6344.55 8459.40 10574.25 2172.35 4344.7 6517.05 8689.4 10861.75 2143.6 4287.2 6430.8 8574.4 10718 FREQ (MHz) NOTES:



EUT:

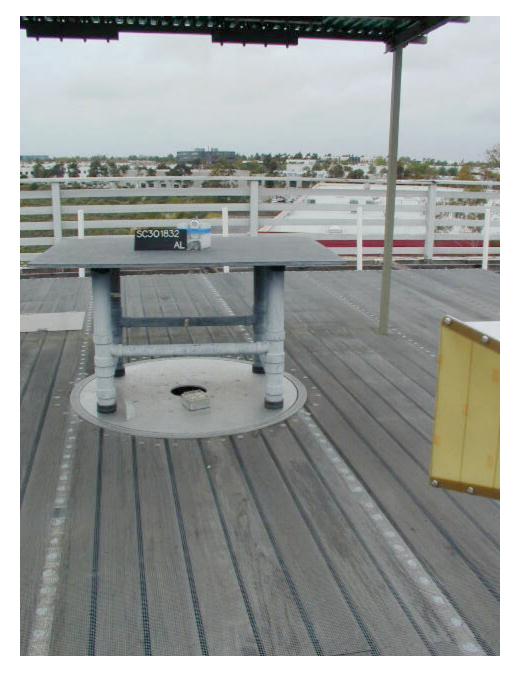
DATE:



Page 5 of 7 Rev.No 1.0



Photograph of Test Setup

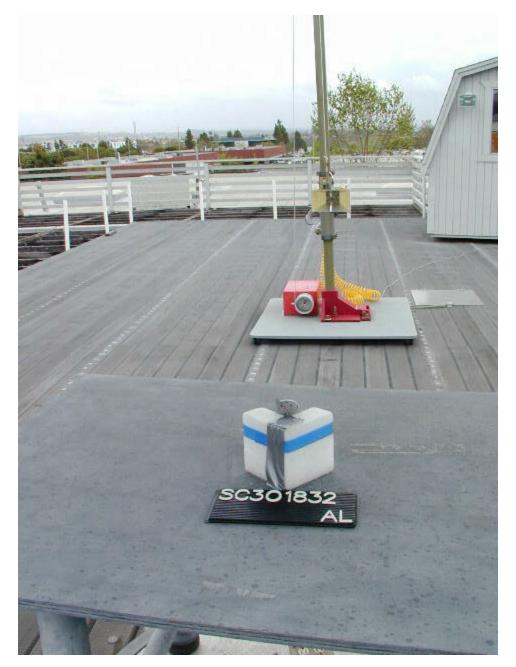


Page 6 of 7 Rev.No 1.0

Report No. SC301832-03A



Photograph of Test Setup



Page 7 of 7 Rev.No 1.0