

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**

Measurement Requirements (CFR 47 Part 15, Paragraph 15.209(a) and Part 24, Paragraph 24.238(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.

A handwritten signature in black ink, appearing to read "FR Fleury".

Floyd R. Fleury
EMC Manager

Emissions Test Conditions: SPURIOUS RADIATED EMISSIONS

Roof (small open area test site)

The *Spurious Radiated Emissions* measurements were performed using the following equipment:**Test Equipment Used:**

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Date Cal'ed
AMF-5D-010180-35-10P	719	PreAmp	TUV America	549460	NCR*
FF6549-2	783	2000 MHz High Pass Filter	Sage	008	NCR*
HP8566B	720	Spectrum Analyzer	Hewlett Packard	2115A00842	09/02
3115	251	Antenna, Horn	Electro Mechanics Co	2595	12/02

Remarks: One year calibration cycle for all test equipment and sites. (*) No Calibration Required.
Prescans show no emissions between 30 to 1000 MHz.

Technical Documentation

Test Data Sheets

and

Test Setups

v.beta1a

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REPORT No: SC302620 TESTER: Alan Laudani SPEC: FCC Part 24 para 24.238(a)
 CUSTOMER: Kyocera Wireless Corp TEST DIST: 3 Meters
 E U T: KE433 TEST SITE: Roof
 EUT MODE: Transmit PCS BICONICAL: N/A
 DATE: June 2, 2003 ERP Factor 5.5 LOG: N/A
 NOTES: HORN: 251

16 C, 89 % RH, 101.17 kPa Atm. Press.
 Part 24 - RBW 1 MHz
 CF = Antenna Factor + Cable Loss - Pre-amplifier Gain

FREQ (MHz)	VERTICAL (dBuv) pk	HORIZONTAL (dBuv) pk	CF (dB/m) pk	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes
1851.25	126.1		-7.8	23.0					Fundamental (Low Band)
3702.5	45	46.2	-0.4	-49.5	-13.0	-36.5	209	1.3	
5553.75	40.3	41.4	4.5	-49.4	-13.0	-36.4			ambient
7405	40.8	40.5	8.2	-46.3	-13.0	-33.3			ambient
9256.25	41.9	42.0	10.4	-42.9	-13.0	-29.9			ambient
11107.5	43.3	43.0	13.1	-38.8	-13.0	-25.8			ambient
12958.75	45.6	46.6	12.7	-35.9	-13.0	-22.9			ambient
14810	45.1	45.8	16.1	-33.3	-13.0	-20.3			ambient
16661.25	45.5	45.2	18.5	-31.3	-13.0	-18.3			ambient
1880	125.9		-7.6	23.0					Fundamental (Mid Band)
3760	45.2	45.3	-0.3	-50.2	-13.0	-37.2	200	1.2	
5640	41	40.9	4.7	-49.6	-13.0	-36.6			ambient
7520	42.4	42.8	8.4	-44.0	-13.0	-31.0			ambient
9400	43.4	43.9	10.0	-41.4	-13.0	-28.4			ambient
11280	42.6	42.2	13.2	-39.5	-13.0	-26.5			ambient
13160	45.4	44.9	13.2	-36.7	-13.0	-23.7			ambient
15040	45.1	45.5	17.0	-32.7	-13.0	-19.7			ambient
16920	44.3	45.0	19.5	-30.8	-13.0	-17.8			ambient
1908.75	125.7		-7.4	23.0					Fundamental (High Band)
3817.5	48.1	48.2	-0.1	-47.2	-13.0	-34.2	182	1.2	
5726.25	39.7	39.5	4.9	-50.6	-13.0	-37.6			ambient
7635	43.0	43.0	8.5	-43.7	-13.0	-30.7			ambient
9543.75	44.3	44.0	9.8	-41.2	-13.0	-28.2			ambient
11452.5	43.3	43.0	13.3	-38.7	-13.0	-25.7			ambient
13361.25	45.6	45.6	14.0	-35.7	-13.0	-22.7			ambient
15270	44.7	44.5	17.3	-33.2	-13.0	-20.2			ambient
17178.75	45.1	45.3	21.1	-28.8	-13.0	-15.8			ambient

Photograph of Test Setup



Photograph of Test Setup



Appendix

Supplemental Information

TÜV
PRODUCT SERVICE

NOTES: 1x high, low, middle 30 MHz $\rightarrow$ 1 GHz
1908.75, 1851.25, 1880 MHz NO Emissions Detected

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Signature

NOTES: 1. CB L 6111 SN 1D13 Log Periodic Antenna NCR
2. 8594E SN 3303A-00365 Spectrum Analyzer 7-29-03