

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 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.



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.	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

REPORT No: SC301832 TESTER: Alan Laudan SPEC: FCC Part 24 para 24.238(a)
 CUSTOMER: Kyocera Wireless TEST DIST: 3 Meters
 E U T: KE4'3 TEST SITE: Roof
 EUT MODE: Transmit PCS BICOINICAL: N/A
 DATE: April 14, 2003 ERP/EIRP Factor: 5.5 LOG: N/A
 NOTES: HORN: 251

Part 24 - RBW 1 MHz									
CF = Antenna Factor + Cable Loss - Pre-amplifier Gain									
FREQ (MHz)	VERTICAL (dBuv) pk	HORIZONTAL (dBuv) pk	CF (dB/m)	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes
1851.25	126.1		-7.8	23.0					
3702.5	47.5	48.7	-0.4	-47.0	-13.0	-34.0	174	1.2	Fundamental (Low Band)
5553.75	39.9	40.1	4.5	-50.7	-13.0	-37.7			noise floor
7405	42.9	42.4	8.2	-44.2	-13.0	-31.2	251	1.2	
9256.25	45.3	44.5	10.4	-39.6	-13.0	-26.6			noise floor
11107.5	44.2	43.3	13.1	-37.9	-13.0	-24.9			noise floor
12968.75	47.1	47.4	12.7	-35.1	-13.0	-22.1			noise floor
14810	44.6	45.2	16.1	-33.9	-13.0	-20.9			noise floor
16661.25	45.8	46.4	18.5	-30.4	-13.0	-17.4			noise floor
1880	125.9								
3760	43.8	43.7	-7.6	23.0					Fundamental (Mid Band)
5840	38.3	38.5	-0.3	-51.7	-13.0	-38.7	190	1.2	
7520	43.1	42.8	4.7	-52.1	-13.0	-39.1			noise floor
9400	42.2	43.1	8.4	-43.7	-13.0	-30.7	248	1.2	
11280	43.5	43.1	10.0	-42.2	-13.0	-29.2			noise floor
13160	45.4	45.0	13.2	-38.6	-13.0	-25.6			noise floor
15040	45.2	45.1	13.2	-36.1	-13.0	-23.1			noise floor
16920	43.9	43.9	17.0	-33.0	-13.0	-20.0			noise floor
			19.5	-31.9	-13.0	-18.9			noise floor
1908.75	125.7								
3817.5	45.5	46.5	-7.4	23.0					Fundamental (High Band)
5726.25	39.6	38.6	-0.1	-48.9	-13.0	-35.9	233	1.2	
7635	42.3	44.1	4.9	-50.7	-13.0	-37.7			noise floor
9543.75	44.2	45.2	8.5	-42.6	-13.0	-29.6	232	1	
11452.5	43.6	43.5	9.8	-40.3	-13.0	-27.3	253	1	
13361.25	45.6	44.2	13.3	-38.4	-13.0	-25.4			noise floor
15270	44.6	45.0	14.0	-35.7	-13.0	-22.7			noise floor
17178.75	45.0	45.3	17.3	-32.9	-13.0	-19.9			noise floor
			21.1	-28.8	-13.0	-15.8			noise floor

Photograph of Test Setup



Photograph of Test Setup



Appendix

Supplemental Information

TÜV
PRODUCT SERVICE

EUT Model #: KE413 ☐ 230 Vac/50 Hz ☐ 120 Vac/60 Hz
☒ Other: _____
 EUT Description: Transmit PCS Cellular Phone

No Emissions Evident 30MHz-1000MHz

[illegible]

Signature

NOTES: 1. _____
2. _____