

RADIATED EMISSIONS

DATA

FOR

**QUALCOMM, INC.
10300 Campus Point Drive
San Diego, CA 92121**

Prepared by

**TÜV PRODUCT SERVICE
10040 Mesa Rim Road
San Diego, CA 92121-2912**

Measurement Requirements (CFR 47 Part 2, Paragraph 2.1053 & Part 22, Paragraph 22.917)

The measurements which follow were performed by TÜV Product Service. 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

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

Test Equipment Used :

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
8566B	720/721	Spectrum Analyzer & Display	Hewlett Packard	2115A00842 2112A02185	03/00
AA-190-06.00.0	657	Cable	United Microwave Prod.	--	N/A
AA-190-30.00.0	665	Cable	United Microwave Prod.	--	N/A
AMF-3D-010180-35-10P	752	Amplifier	Miteq	614344	05/00
3115	453	Double Ridge Antenna	EMCO	9412-4364	10/99
3146	243	Antenna, Log Periodic Dipole	EMCO	106X	12/99
F4777	--	High Pass Filter	Qualcomm	--	N/A

 Remarks: _____

Testing Facilities
Certificates of Approval



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Scope of Accreditation



Page: 1 of 1

**ELECTROMAGNETIC COMPATIBILITY
AND TELECOMMUNICATIONS**

NVLAP LAB CODE 100268-0

TUV PRODUCT SERVICE, INC.
 10040 Mesa Rim Road
 San Diego, CA 92121-1034
 Mr. Floyd R. Fleury
 Phone: 619-546-3999 Fax: 619-546-0364

NVLAP Code Designation / Description

International Special Committee on Radio Interference (CISPR) Methods

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices
 12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz
 12/F01b Radiated Emissions

Australian Standards referred to by clauses in AUSTEL Technical Standards

12/T51 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

December 31, 1999

Effective through

For the National Institute of Standards and Technology

NVLAP-01S (11-95)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP[®]



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

TUV PRODUCT SERVICE, INC.
SAN DIEGO, CA

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

**ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS
FCC**

December 31, 1999

Effective through

For the National Institute of Standards and Technology

NVLAP Lab Code: 100268-0

NVLAP-01C (11-95)



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-

December 1, 1998

Mr. Floyd R. Fleury
TUV Product Service, Inc.
10040 Mesa Rim Road
San Diego, CA 92121-1034

NVLAP Lab Code: 100268-0

Dear Mr. Fleury:

I am pleased to inform you that continuing accreditation for specific test methods in Electromagnetic Compatibility & Telecommunications, FCC is granted to your organization under the National Voluntary Laboratory Accreditation Program (NVLAP). This accreditation is effective until December 31, 1999, provided that your organization continues to comply with accreditation requirements contained in the NVLAP Procedures.

Your Certificate of Accreditation is enclosed along with a statement of your Scope of Accreditation. You may reproduce these documents in their entirety and announce your organization's accreditation status using the NVLAP logo in business publications, the trade press, and other business-oriented literature. Accreditation does not relieve your organization from observing and complying with any applicable existing laws and/or regulations.

We are pleased to have you participate in NVLAP and look forward to your continued association with this program. If you have any questions concerning your NVLAP accreditation, please direct them to Jon Crickenberger, Sr. Program Manager, Laboratory Accreditation Program, National Institute of Standards and Technology, 100 Bureau Dr. Stop 2140, Gaithersburg, MD 20899-2140; (301) 975-4016.

Sincerely,

James L. Cigler, Chief
Laboratory Accreditation Program

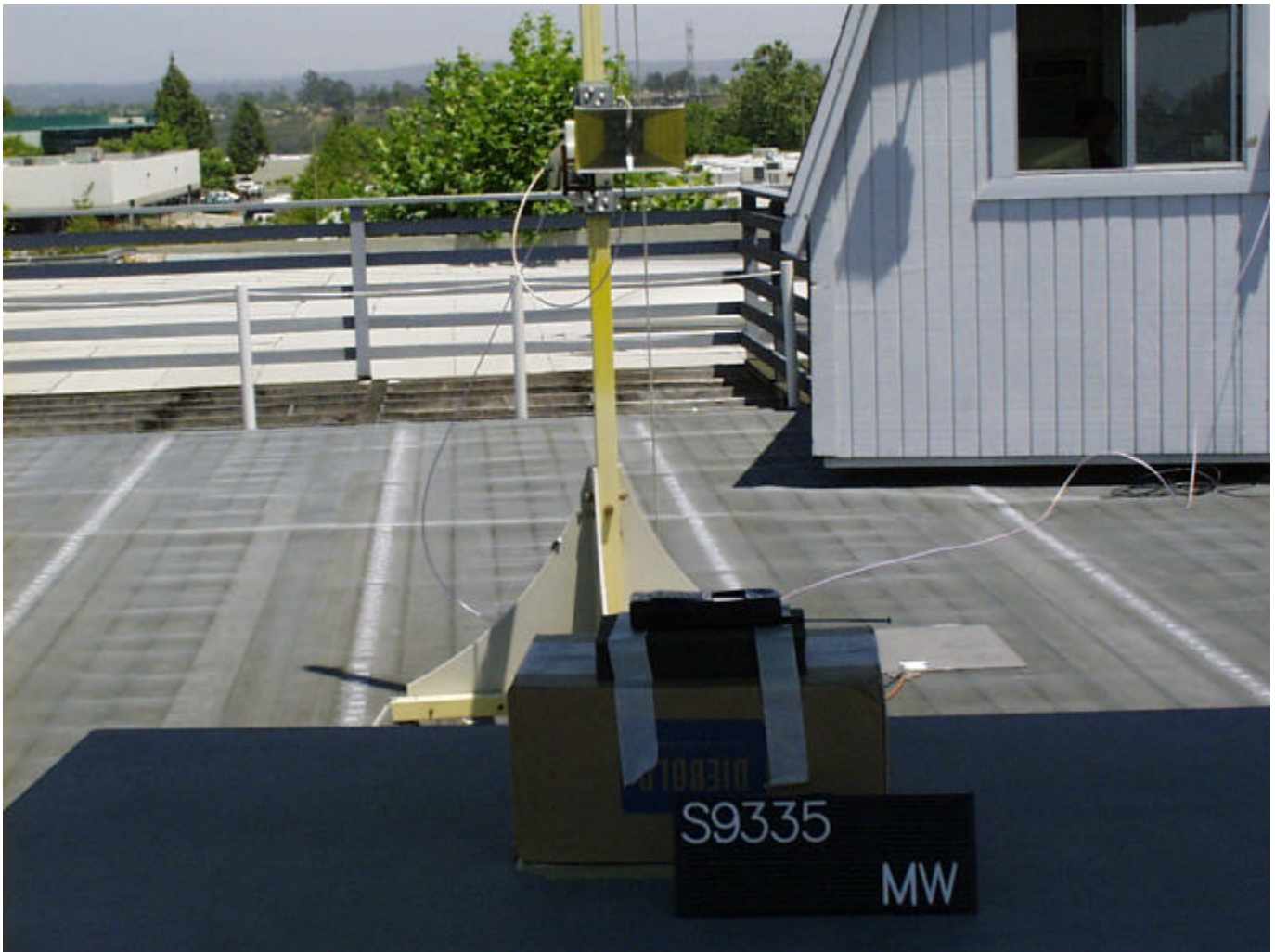
Enclosure(s)

NIST

Photograph of Test Setup



Photograph of Test Setup



REPORT No: S9335 TESTED BY: mw
 SPEC: FCC Part 2, Para. 2.1053
 and FCC Part 22, Para. 22.917
 CUSTOMER: Qualcomm, Inc. *W. W. W. W.*
 TEST DIST: 3 Meters
 E.U.T.: Cellular Phone, Model PDQ-800 TEST SITE: 3
 EUT MODE: Transmit, CDMA BICONICAL: N/A
 DATE: 12-Jul-99 LOG: 243
 NOTES: Duty Cycle= 100% OTHER: 453
 RBW and VBW = 30 kHz below 1 GHz.
 RBW and VBW = 1 MHz above 1 GHz.
 No emissions detectable except as noted below.

FREQ (MHz)	VERTICAL (dBuV)		HORIZONTAL (dBuV)		CORRECTION FACTOR (dBsm)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Antenna Height	Notes	
	pk	av	pk	av		pk	av	pk	av	pk	av				pk
836.49		97.6		90.6	27.1	124.7						125	5	1.8	Mid channel
1672.98	37.9		35.1		29.9	67.8	28.9	84.4			-16.6				
2509.47	35.2		32.3		34.6	69.8	34.6	84.4			-14.6				
3345.96	35.1		34.9		37.1	72.2	37.1	84.4			-12.2		287	1	
4182.45	15.9		12.3		40.7	56.6	40.7	84.4			-27.8				
824.04		97.6		91.6	27.1	124.7						125	1	1.8	Low channel
1648.08	39.3		36.1		29.9	69.2		84.4			-15.2				
2472.12	31.3		31		32.6	63.9		84.4			-20.5				
3296.16	35.2		34.1		37.2	72.4		84.4			-12		277	1.4	
4120.2	16.3		17.1		40.6	57.7		84.4			-26.7				
848.97		97.4		92.3	27.0	124.4						124	10	1.7	High channel
1697.94	39.7		36.2		29.8	69.5		84.4			-14.9				
2546.91	32.9		33.3		34.5	67.8		84.4			-16.6				
3395.88	34.3		30.8		37.1	71.4		84.4			-13		287	1	
4244.85	13.7		12.8		40.7	54.4		84.4			-30				

REPORT NO: S9335 TESTED BY: mw
 CUSTOMER: Qualcomm, Inc. *M. W. W. W.*
 EUT: Cellular Phone, Model PDQ800
 EUT MODE: Transmit, FM Mode
 DATE: 12-Jul-99
 SPEC: FCC Part 2, Para. 2.1053 and FCC Part 22, Para. 22.917
 TEST DIST: 3 Meters
 TEST SITE: 3
 BICONICAL: N/A
 LOG: 243
 OTHER: 453

NOTES: Duty Cycle= 100%
 RBW and VBW = 100 kHz below 1 GHz.
 RBW and VBW = 1 MHz above 1 GHz.
 No emissions detectable except as noted below.

FREQ (MHz)	VERTICAL (dBuv)		HORIZONTAL (dBuv)		CORRECTION FACTOR (dBm)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Antenna Height	Notes
	pk	av	pk	av		pk	av	pk	av	pk	av			
836.49	100		89.7		27.1	127.2		84.4		127		7	1.9	Mid channel
1672.98	34		31.3		29.9	63.9		84.4		-20.5				
2509.47	34.2		30.3		34.6	68.8		84.4		-15.6		145	1	
3345.96	33.7		30.9		37.1	70.8		84.4		-13.6		292	1	
4182.45	17.1		16		40.7	67.8		84.4		-26.6				
5018.94	9.9		8.3		41.8	51.7		84.4		-32.7				
5855.43	12.8		12.1		42.8	55.8		84.4		-28.8				
824.04	99.9		93		27.1	127.0				127		4	1.8	Low channel
1648.08	36.8		35.1		29.9	66.7		84.4		-17.7				
2472.12	32.7		32.3		32.6	66.3		84.4		-19.1				
3296.16	33.8		34.4		37.2	71.6		84.4		-12.8		309	1.1	
4120.2	16.2		19.1		40.6	59.7		84.4		-24.7				
4944.24	10.6		9		39.1	49.7		84.4		-34.7				
5768.28	9.2		9.3		42.8	52.1		84.4		-32.3				
848.97	99.9		93.9		27.0	126.9				127		10	1.9	High channel
1697.94	40.2		35.4		29.8	70.0		84.4		-14.4		69	1.2	
2546.91	34		35.7		34.5	70.2		84.4		-14.2		249	1	
3395.88	33.1		33.4		37.1	70.5		84.4		-13.9		26	1	
4244.85	14.6		12		40.7	56.3		84.4		-29.1				
5093.82	10.5		12.2		41.8	64.0		84.4		-30.4				
5942.79	14		12		42.8	56.8		84.4		-27.6				