

SPURIOUS 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 (Paragraph 2.993)

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	Spectrum Analyzer	Hewlett Packard	2115A00842	02/18/99
■ - 85662B	721	Spectrum Analyzer Display	Hewlett Packard	2112A02185	02/18/99
■ - 3115	251	Double Ridge Guide Antenna, 1-18 GHz	EMCO	2495	09/14/99
■ - AA-190-06.00.0	657	High Frequency Cable	United Microwave Pro --		N/A
■ - AA-190-30.00.0	665	High Frequency Cable	United Microwave Pro --		N/A

Remarks: _____

REPORT No: S8568 TESTED BY: MW SPEC: FCC Part 2, Para. 2.993 & Part 24, Para. 24.238

CUSTOMER: Qualcomm, Inc. TEST DIST: 3 Meters

E U T: QCP 1960 TEST SITE: 3

EUT MODE: Maximum Output Power, CDMA BICONICAL: N/A

DATE: 18-Nov-98 LOG PERIODIC: N/A

NOTES: PCS CDMA Phone OTHER: 251
 RBW and VBW = 100 kHz for harmonic and spurious emissions.
 RBW and VBW = 1 MHz for fundamental.
 Fundamental only detectable. All other measurements noise floor.

FREQ (MHz)	VERTICAL (dBuv)		HORIZONTAL (dBuv)		CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotatio	Antenna Height
	pk	av	pk	av		pk	av	pk	av	pk	av		
1851.25	88.5		87.7		32.7	121.2						217	1.3
3720.5	26.9		24.4		39.6	66.5		82.8		-16.3			
5553.75	26		24.7		43.6	69.6		82.8		-13.2			
7405	30.2		29.8		46.3	76.5		82.8		-6.35			
1880	88		87.4		32.9	120.9				120.9		353	1.7
3760	25.4		24.5		39.9	65.3		82.5		-17.2			
5640	26		24.8		43.7	69.7		82.5		-12.8			
7520	30.2		28.3		46.5	76.7		82.5		-5.77			
1908.75	87.3		88.4		33.0	121.4						164	1.5
3817.5	28		26.7		40.2	68.2		83		-14.8			
5726.25	25.8		24.7		43.8	69.6		83		-13.4			
7635	28.9		28.4		46.7	75.6		83		-7.41			

Photograph of Test Setup



Photograph of Test Setup



Testing Facilities
Certificates of Approval

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1685 (ext-218)
Facsimile: 301-344-2050

July 15, 1998

IN REPLY REFER TO
31040/SIT
1300F2

TUV Product Service
10040 Mesa Rim Road
San Diego, CA 92121-2912

Attention: Dave Marshall

Re: Measurement facility located at San Diego (3 meter site)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

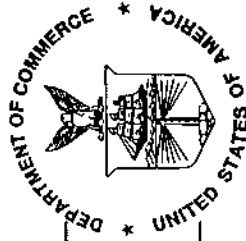
Per your request, the above mentioned facility has also been added to our list of those who perform these measurement services for the public on a fee basis. An up-to-date list is available on the Internet at the FCC Website www.fcc.gov under Electronic Filing.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

United States Department of Commerce
National Institute of Standards and Technology



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, 1998

Effective through

For the National Institute of Standards and Technology

NVLAP Lab Code: 100268-0

NVLAP-01C (11-95)

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

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. John G. Smith
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, 1998

Effective through

For the National Institute of Standards and Technology