

**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 (CFR 47 Part 2, Paragraph 2.993 & 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, EIC

**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<br>2112A02185 | 02/18/99 |
| AA-190-10.00.0       | 655       | Cable                       | United Microwave<br>Prod. | --                       | N/A      |
| AA-190-06.00.0       | 657       | Cable                       | United Microwave<br>Prod. | --                       | N/A      |
| AA-190-30.00.0       | 733       | Cable                       | United Microwave<br>Prod. | --                       | N/A      |
| AMF-5D-010180-35-10P | 719       | Pre-amplifier               | Miteq                     | 549460                   | 04/07/99 |
| 3115                 | 453       | Double Ridge Antenna        | EMCO                      | 9412-4364                | 03/10/99 |
| 3146                 | 244       | Log Periodic Antenna        | EMCO                      | 1063                     | 03/09/99 |
| 3146                 | 418       | Log Periodic Antenna        | EMCO                      | 9402-3775                | 06/25/99 |
| F4777                | --        | High Pass Filter            | Qualcomm                  | --                       | N/A      |

Remarks: \_\_\_\_\_

With panel antenna. Channel 991.

[illegible]

With panel antenna. Channel 383.

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With panel antenna. Channel 799.

[illegible]

With vertical antenna. Channel 991.

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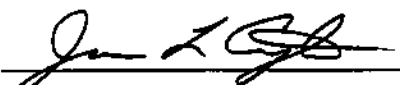
With vertical antenna. Channel 383.

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Testing Facilities  
Certificates of Approval

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                               |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p>National Institute<br/>of Standards and Technology</p>                                                                                                                                                                                                                                                                                                                                                                                                                               | <h1 style="margin: 0;">NVLAP<sup>®</sup></h1>                                                                                 | <p>National Voluntary<br/>Laboratory Accreditation Program</p>                      |
| <p>ISO/IEC GUIDE 25:1990<br/>ISO 9002:1987</p>                                                                                                                                                                                                                                                                                                                                                                                                                                          | <h2 style="margin: 0;">Scope of Accreditation</h2>                                                                            |  |
| <p>Page: 1 of 1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               |                                                                                     |
| <p><b>ELECTROMAGNETIC COMPATIBILITY<br/>AND TELECOMMUNICATIONS</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |                                                                                     |
| <p><b>NVLAP LAB CODE 100268-0</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                               |                                                                                     |
| <p><b>TUV PRODUCT SERVICE, INC.</b><br/>10040 Mesa Rim Road<br/>San Diego, CA 92121-1034<br/>Mr. Floyd R. Fleury<br/>Phone: 619-546-3999 Fax: 619-546-0364</p>                                                                                                                                                                                                                                                                                                                          |                                                                                                                               |                                                                                     |
| <p><b>NVLAP Code    Designation / Description</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                               |                                                                                     |
| <p><b>International Special Committee on Radio Interference (CISPR) Methods</b></p>                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               |                                                                                     |
| 12/CIS22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment |                                                                                     |
| <p><b>Federal Communications Commission (FCC) Methods</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                               |                                                                                     |
| 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                                                                                                            |                                                                                     |
| <p><b>Australian Standards referred to by clauses in AUSTEL Technical Standards</b></p>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                               |                                                                                     |
| 12/T51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment             |                                                                                     |
| <div style="display: flex; justify-content: space-between; align-items: flex-end;"><div style="width: 45%; text-align: center;"><p>December 31, 1999</p><hr style="width: 80%; margin: 0 auto;"/><p>Effective through</p></div><div style="width: 45%; text-align: center;"><br/><hr style="width: 80%; margin: 0 auto;"/><p>For the National Institute of Standards and Technology</p></div></div> |                                                                                                                               |                                                                                     |

NVLAP-01S (11-95)

United States Department of Commerce  
National Institute of Standards and Technology

**NVLAP<sup>®</sup>**



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

*[Signature]*

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**

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Photograph of Test Setup



Photograph of Test Setup

