

FCC APPLICATION INQUIRY RESPONSE
L82-228869: SIEMENS GIGASET 2400 HANDSET

Correspondence Number: 3767

September 30, 1998

1.0 Overview

This package was compiled to reply to inquiries made by Mr. Rich Fabina of the FCC regarding the Type Certification Application for the Siemens Gigaset 2400 Handset. Each Inquiry item is listed below followed by the response.

2.0 Inquiry Responses

(1) Clairify the EIRP for this device.

Answer:

The original EIRP stated in the 731 was based on an incorrect EIRP formula. The summary for the correct maximum emission levels for the Siemens SOHO Handset is summarized below:

Reference Equation:

$$\text{Power (ERP)} = (E * r) / (30)^{1/2}$$

Where:

E = radiated electric field level in V/m

r = distance from the EUT to the measurement antenna

Test Distance for these measurements was 1 meter

<u>Channel</u>	<u>Peak Emission Level (dBμV/m)</u>	<u>EIRP (watts)</u>
00	127.4	0.1832
46	128.3	0.2254
94	124.3	0.089

We request that the Comission modify the rated (Form 731) power listing of the Siemens SOHO Handset to 0.225 watts based on this information.

(2) How does this device comply with the RF Safety Requirements?

Answer:

Based on a conversation with Kwok Chan of the Commission on September 16, 1998, the following RF Safety analysis is provided:

The power used for evaluation to the RF Safety Hazard Specification can be derated based on the percentage that the transmit signal is actually present over time. For the Gigaset 2400 Desk Station, the duty cycle of the transmit signal over time is 1/8. The Power level used for comparison to the OET-65C limit can be calculated as follows:

$$\text{Ref. Power} = (\text{Peak Power}) * (\text{Duty Cycle}) = (0.225 \text{ watts}) * (1/12) = 0.0187 \text{ watts}$$

This figure is below the threshold (<0.2 watts at 2450 MHz for cordless phone handsets and most other transmitters using monopole or dipole type antennas as an integral part of the device) for this device. The Gigaset 2400 Handset uses an integral monopole antenna. Based on this criteria, special warnings or instructions are not required to show compliance for this device.

The derivation of the 1/12 duty cycle was provided in a correspondence provided to the Commission on September 25, 1998.

(3) Provide an updated signed Confidentiality Statement on Company Letterhead

Answer:

This letter is included in the Appendix of this document.

APPENDIX

DATASHEETS



Federal Communication Commission
Equipment Authorization Division, Application Processing Branch
7435 Oakland Mills Road
Columbia, MD 21048

September 30, 1998

TO WHOM IT MAY CONCERN

Pursuant to Paragraph §0.475(d) of the Commission's Rules (47 C.F.R.) and Section §552(b)(4) of the Freedom of Information Act, Siemens Business Communications requests confidentiality for the following products:

<u>FCC ID Number</u>	<u>Product Title/Model</u>
L82-228869	Gigaset 2400 Mobile Handset Unit
L82-228870	Gigaset 2400 Desk Station Unit

For both these products, we request that the following information be held confidential:

- 1) Electrical Schematics of the Circuitry

No other items submitted as part of the equipment authorization filing process are deemed confidential. The above exhibits contain Siemens' trade secrets and proprietary information that could be of benefit to our competitors regarding the design of our mobile handset. This material is not customarily available to the general public and we request that it be withheld from public inspection.

If you have any questions, please feel free to contact me at the address shown below.

Sincerely,

Edwin L. Bronaugh

Edwin L. Bronaugh, Sr. Eng.
Lead, Hardware Design Assurance
Siemens Business Communication Systems
2205 Grand Avenue Parkway
Austin, TX 78728-3811
email: Edwin.Bronaugh@siemenscom.com
Fax: 512-990-6335

Siemens Business Communication Systems, Inc.

2205 Grand Avenue Parkway
Austin, TX 78728-3811

Tel: (512) 990-1000
Fax: (512) 990-8426