

Nemko Test Report:

6L0424RUS1rev3

Applicant:

Siemens Subscriber Networks 4849 Alpha Road Dallas, TX 75244 USA

Equipment Under Test: (E.U.T.) Gigaset SE567/ Gigaset SE568

In Accordance With:

FCC Part 15, Subpart C, 15.247 and RSS-210, Issue 6 Digital Transmission System Transmitter

**Tested By:** 

Nemko USA Inc. 802 N. Kealy Lewisville, Texas 75057-3136

**TESTED BY:** 

DATE:

22 August 2006

David Light, Wireless Engineer

**APPROVED BY:** 

Kevin Rose, Wireless Engineer

Number of Pages:

DATE:

August 23, 2006

# Table of Contents

Section 1.	Summary of Test Results	3
Section 2.	Equipment Under Test (E.U.T.)	5
Section 3.	Powerline Conducted Emissions	7
Section 4.	Occupied Bandwidth	13
Section 5.	Maximum Peak Output Power	20
Section 6	Spurious Emissions at Antenna Terminals	21
Section 7.	Radiated Emissions	30
Section 8.	Peak Power Spectral Density	33
Section 9.	Test Equipment List	40
ANNEX A -	TEST DETAILS	41
ANNEX B -	TEST DIAGRAMS	48

#### Section 1. Summary of Test Results

Manufacturer: Siemens Subscriber Networks

Model No.: Gigaset SE567/ Gigaset SE568

Serial No.: 00.13.A3.D4.E8.18

All measurements are traceable to national standards. General:

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 and RSS-210, Issue 6 for Digital Transmission Systems. Radiated tests were conducted is accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.



#### THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM. ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE. NONE See "Summary of Test Data".

NVLAD
LAB CODE: 100426-0

Nemko USA Inc. authorizes the above named company to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko USA Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This report applies only to the items tested.

#### Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Powerline Conducted Emissions	15.207(a)	Complies
Minimum 6 dB Bandwidth	15.247(a)(2)	Complies
Maximum Peak Power Output	15.247(b)(3)	Complies
Spurious Emissions (Antenna Conducted)	15.247(d)	Complies
Spurious Emissions (Restricted Bands)	15.247(d)/15.205	Complies
Peak Power Spectral Density	15.247(e)	Complies

#### Footnotes:

The sample tested was a Gigaset SE568. Model SE567 does not have USB capabilities.

Nemko USA	, Inc. FCC PA	RT 15, SUBPART C & RSS-210, Issue 6
		Digital Transmission Systems
EQUIPMENT:	Gigaset SE567/ Gigaset SE568	Test Report No.: 6L0424RUS1

# Section 2. Equipment Under Test (E.U.T.)

General Equipment Information

Frequency Band:	2400-2483.5 MHz
Operating Frequencies of Sample:	2412-2462 MHz
Standard Test Voltage:	120 Vac
Channel Spacing:	5 MHz
User Frequency Adjustment:	Software controlled

#### Description of EUT

Siemens Gigaset SE567/568 ADSL2+ Wireless Gateways offer DSL and wireless performance tailored to the unique demands of service providers. WiFi performance is greatly improved through the Gateway's advanced "Smart Antenna" design. Patented beam steering technology typically doubles signal strength and received sensitivity over conventional antenna solutions. This unprecedented antenna gain and wireless coverage pattern results from combining multiple antenna elements with rapid automatic antenna switching.

The SE568 offers USB option.

#### System Diagram



PC - Dell Latitude D610 AC Adapter – GC Technologies AM-121000

Nemko USA	, Inc.	FCC PART 1	5, SUBPART C & RS	S-210, Issue 6
			Digital Transmi	ssion Systems
EQUIPMENT:	Gigaset SE567/ Gigas	et SE568	Test Report No.:	6L0424RUS1

### Section 3. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207(a)
TESTED BY: David Light	DATE: 21 August 2006

- Test Results:Complies. The worst case emission was 58.9 dBµV at<br/>13.2 MHz. This is 1.1 dB below the quasi-peak specification<br/>limit of 60.0 dBµV.
- Test Data:Refer to attached plots
- Equipment Used: 1659-1625-674-968-969-1978
- Measurement Uncertainty: +/- 1.7 dB
- Temperature:22 °C
- Relative Humidity: 40 %

EQUIPMENT: Gigaset SE567/ Gigaset SE568

Test Data – Powerline Conducted Emissions



Date: 21.AUG.2006 13:01:14

EQUIPMENT: Gigaset SE567/ Gigaset SE568



#### Test Data – Powerline Conducted Emissions

Date: 21.AUG.2006 13:10:11

EQUIPMENT: Gigaset SE567/ Gigaset SE568

Digital Transmission Systems Test Report No.: 6L0424RUS1



#### Test Data – Powerline Conducted Emissions

Date: 21.AUG.2006 13:16:44

EQUIPMENT: Gigaset SE567/ Gigaset SE568



#### Test Data – Powerline Conducted Emissions

Date: 21.AUG.2006 13:12:18

Nemko USA, Inc.		FCC PART 15,	SUBPART C & RS	S-210, Issue 6
			Digital Transmi	ssion Systems
EQUIPMENT:	Gigaset SE567/ Gigas	et SE568	Test Report No.:	6L0424RUS1

#### Photos – Powerline Conducted Emissions

Front



Side



Nemko USA	, Inc. FCC PAF	RT 15, SUBPART C & RS	S-210, Issue 6
		Digital Transmi	ission Systems
EQUIPMENT:	Gigaset SE567/ Gigaset SE568	Test Report No.:	6L0424RUS1

# Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 15.247(a)(2)
TESTED BY: David Light	DATE: 18 August 2006

Test Results:	Complies.	
Test Data:	See 6 dB BW plot Measured 6 dB bandwidth: Channel Separation:	16.6 MHz 5 MHz
Equipment Used:	1472-1626-1036	
Measurement Uncer	tainty: 1*10 <sup>-7</sup> ppm	
Temperature:	22 °C	
Relative Humidity:	40 %	

EQUIPMENT: Gigaset SE567/ Gigaset SE568

**Digital Transmission Systems** Test Report No.: 6L0424RUS1



#### Test Data - Occupied Bandwidth - 802.11g

Digital Transmission Systems Test Report No.: 6L0424RUS1



#### EQUIPMENT: Gigaset SE567/ Gigaset SE568

Digital Transmission Systems Test Report No.: 6L0424RUS1



#### EQUIPMENT: Gigaset SE567/ Gigaset SE568

Digital Transmission Systems Test Report No.: 6L0424RUS1



# at Data Occurried Denduidth 000.44h

#### EQUIPMENT: Gigaset SE567/ Gigaset SE568

Digital Transmission Systems Test Report No.: 6L0424RUS1



Digital Transmission Systems Test Report No.: 6L0424RUS1



Nemko USA	, Inc. FCC PA	RT 15, SUBPART C & RS	S-210, Issue 6
		Digital Transm	ission Systems
EQUIPMENT:	Gigaset SE567/ Gigaset SE568	3 Test Report No.:	6L0424RUS1

# Section 5. Maximum Peak Output Power

NAME OF TEST: Maxim	num Peak Output powe	r PARA. NO	PARA. NO.: 15.247(b)(1)		
TESTED BY: David Ligh	nt	DATE: 18	August 2006		
Test Results:	Complies.				
Test Data:					
Channel	Data Rate	Peak Power	Peak Power		
1	54	(dBm) 23.53	<b>(mW</b> 225.4		
6	54	25.08	322.1		
11	54	22.40	173.8		
1	11	22.56	180.3		
6	11	24.44	278.0		
11	11	22.56	180.3		
Maximum Peak Output	<b>Power:</b> 25.08 dBm /	′ 322.1 mW			
Rated Antenna Gain:	7 dBi max				
Equipment Used: 14	72-1626-1029-1030				
Measurement Uncertainty: +/- 1.7 dB					
	-				
Temperature: 2	22 °C				
Relative Humidity: 4	0 %				
,					

The measurement was repeated at +/- 15% of nominal supply voltage with no variation noted in rf power output.

Nemko USA	, Inc. FCC PA	RT 15, SUBPART C & RS	S-210, Issue 6
	-	Digital Transm	ission Systems
EQUIPMENT:	Gigaset SE567/ Gigaset SE568	Test Report No.:	6L0424RUS1

# Section 6 Spurious Emissions at Antenna Terminals

NAME OF TEST:Spurious Emissions at Antenna TerminalsPARA. NO.:15.247 (c)TESTED BY:David LightDATE:18 August 2006

Test Results:		Cor	nplies.	
Test Data:		See	attache	d plots
Equipment Used:	1472	2-162	26-1036	
Measurement Uncer	tainty		+/- 1.7	dB
Temperature:	22	°C		
Relative Humidity:	40	%		

















Nemko USA	, Inc.	FCC PART 1	5, SUBPART C & RS	S-210, Issue 6
			Digital Transmi	ssion Systems
EQUIPMENT:	Gigaset SE567/ Gigas	set SE568	Test Report No.:	6L0424RUS1

#### Section 7. Radiated Emissions

NAME OF TEST: Radiated Emissions		PARA. NO.: 15.247 (c)
TESTED BY: David Light		DATE: 21 August 2006
Test Results:	Complies.	

Test Data: See attached plots

Equipment Used: 1464-1484-1485-993-759-1195-791-1016

Measurement Uncertainty: +/- 1.7 dB

Temperature:22 °C

**Relative Humidity:** 40 %

The spectrum was searched from 30 MHz to the tenth harmonic of the carrier. There were no emissions detected above the noise floor which was at least 20 dB below the specification limit. Upper band edge data (noise floor) is presented in 802.11g mode as this carrier had the widest bandwidth.

Analyzer settings RBW=VBW=100 kHz below 1000 MHz RBW=VBW=1 MHz above 1000 MHz (Peak) RBW= 1 MHz VBW=10Hz (Average)

The radio was transmitting greater than 95% ON time.

This device was tested on three channels.

#### Digital Transmission Systems Test Report No.: 6L0424RUS1

#### **Radiated Emissions**

*Measurement* Reading listed by order taken.

Test Distance: 3 Meters

Data:											
			Cable	Cable	Pre-A	Horn					
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	2483.500	46.3	+0.8	+2.3	+12.8	+29.0	+0.0	65.6	74.0	-8.4	Vert
	Peak										
2	2483.500	33.3	+0.8	+2.3	+12.8	+29.0	+0.0	52.6	54.0	-1.4	Vert
	Ave										
12	2483.500	44.8	+0.8	+2.3	+12.8	+29.0	+0.0	64.1	74.0	-9.9	Horiz
	Peak										
13	2483.500	32.5	+0.8	+2.3	+12.8	+29.0	+0.0	51.8	54.0	-2.2	Horiz
	Ave										

#### Radiated Photographs





Nemko USA	, Inc. FCC PA	RT 15, SUBPART C & RS	S-210, Issue 6
	-	Digital Transm	ission Systems
EQUIPMENT:	Gigaset SE567/ Gigaset SE568	Test Report No.:	6L0424RUS1

### Section 8. Peak Power Spectral Density

NAME OF TEST: Peak Power Spectral Density	PARA. NO.: 15.247(d)
TESTED BY: David Light	DATE: 18 August 2006

- Test Results:Complies.Test Data:See attached plotsEquipment1472-1626-1036Used:Complies.
- Measurement Uncertainty: +/- 1.7 dB
- Temperature:22 °C
- **Relative Humidity:** 40 %

Digital Transmission Systems Test Report No.: 6L0424RUS1



Digital Transmission Systems Test Report No.: 6L0424RUS1



Digital Transmission Systems Test Report No.: 6L0424RUS1



Page 36 of 50

Digital Transmission Systems Test Report No.: 6L0424RUS1



Digital Transmission Systems Test Report No.: 6L0424RUS1



#### Page 38 of 50

Digital Transmission Systems Test Report No.: 6L0424RUS1



# Section 9. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	05/26/06	05/26/08
1626	CABLE, 5 ft	MEGAPHASE 10311 1GVT4	N/A	CBU	N/A
1472	20db Attenuator DC 18 Ghz	Omni Spectra 20600-20db	NONE	CBU	N/A
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1484	Cable	Storm PR90-010-072	N/A	08/26/05	08/26/06
1485	Cable	Storm PR90-010-216	N/A	08/26/05	08/26/06
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	04/20/06	04/20/07
791	PREAMP, 25dB	Nemko USA, Inc. LNA25	398	04/20/06	04/20/07
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/01/05	08/02/07
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	02/13/06	02/13/07
1195	ANTENNA, BICONICAL	A.H. SYSTEMS SAS-200/542	235	02/10/06	02/10/07
1625	CABLE, 18 ft	MEGAPHASE 10311 1GVT4	N/A	CBU	NA
1978	CABLE, 2.8m.	Nemko USA, Inc. RG223	N/A	03/09/06	03/09/07
674	LIMITER	HP 11947A	3107A02200	04/19/06	04/19/07
968	Filter, High pass 5khz	Solartron 7930-5.0	933124	04/20/06	04/20/07
969	lisn	Schwarzbeck NNLA 8120	8120281	02/02/06	02/02/07
1029	PEAK POWER METER	HP 8900D	3303U0012	09/14/05	09/14/06
1030	PEAK POWER SENSOR	HP 84811A	2539A03573	09/14/05	09/14/06

Nemko USA, I	I <b>nc.</b> FCC PAR	T 15, SUBPART C & RS	S-210, Issue 6
		Digital Transm	ission Systems
EQUIPMENT: (	Gigaset SE567/ Gigaset SE568	Test Report No.:	6L0424RUS1

## **ANNEX A - TEST DETAILS**

FCC PART 15, SUBPART C & RSS-210, Issue 6

EQUIPMENT: Gigaset SE567/ Gigaset SE568

Digital Transmission Systems Test Report No.: 6L0424RUS1

NAME OF TEST: Powerline Conducted Emissions PARA. NO.: 15.207(a)

Minimum Standard: §15.207 Conducted limits.

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 mH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Conducted	Limit (dBmV)	)
Emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

(1) For carrier current systems containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 mV within the frequency band 535-1705 kHz, as measured using a 50 mH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits as provided in §15.205 and §§15.209, 15.221, 15.223, 15.225 or 15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provision for, the use of battery chargers which permit operating while charging, AC adaptors or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

# Nemko USA, Inc.FCC PART 15, SUBPART C & RSS-210, Issue 6Digital Transmission SystemsEQUIPMENT:Gigaset SE567/Gigaset SE568Test Report No.:6L0424RUS1

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(2)

Minimum Standard: The minimum 6 dB bandwidth shall be at least 500 kHz

FCC PART 15, SUBPART C & RSS-210, Issue 6

EQUIPMENT: Gigaset SE567/ Gigaset SE568

Digital Transmission Systems Test Report No.: 6L0424RUS1

NAME OF TEST: Maximum Peak Output Power PARA. NO.: 15.247(b)(3)

Minimum Standard:The maximum peak output power shall not exceed 1 watt.If transmitting antennas of directional gain greater than 6 dBi

are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point to point operation may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceed 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operation may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

#### **Direct Measurement Method For Detachable Antennas:**

If the antenna is detachable, a peak power meter is used to measure the power output with the transmitter operating into a 50 ohm load. The dBi gain of the antenna(s) employed shall be reported.

#### Substitution Antenna Method for Integral Antennas:

The peak field strength of the carrier is measured in a worst-case configuration with a RBW > 5 times the occupied bandwidth of the transmitted waveform. For cases where the RBW of the test instrument is not sufficient, the power is measured using a peak power meter instead of the spectrum analyzer.

The RBW of the spectrum analyzer shall be set to a value greater than the measured 6 dB occupied bandwidth of the E.U.T.

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

Digital Transmission Systems Test Report No.: 6L0424RUS1

#### NAME OF TEST: Spurious Emissions(conducted) PARA. NO.: 15.247(d)

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength (μV/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

# THE SPECTRUM IS SEARCHED TO THE 10th HARMONIC OF THE HIGHEST FREQUENCY GENERATED IN THE EUT.

#### Method Of Measurement:

30 MHz - 10th harmonic plot RBW: 100 kHz VBW: 300 kHz Sweep: Auto Display line: -20 dBc

#### Lower Band Edge

RBW: At least 1% of span/div. VBW: >RBW Span: As necessary to display any spurious at band edge. Sweep: Auto Center Frequency: 902 MHz, 2400 MHz, or 5725 MHz Marker: Peak of fundamental emission Marker ∆: Peak of highest spurious level below center frequency.

Upper Band Edge RBW: At least 1% of span/div. VBW: >RBW Span: As necessary to display any spurious at band edge. Sweep: Auto Center Frequency: 928 MHz, 2483.5 MHz, or 5850 MHz Marker: Peak of fundamental emission Marker ∆: Peak of highest spurious level above center frequency.

Tuning range	Number of channels tested	Channel location in band	
1 MHz or less	1	middle	
1 to 10 MHz	2	top and bottom	
more than 10 MHz	3	top, middle, bottom	

**Digital Transmission Systems** Test Report No.: 6L0424RUS1

NAME OF TEST: Radiated Spurious Emissions PARA. NO.: 15.247(d)

**Minimum Standard:** In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits:

#### Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength (μV/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC

15.205 Restricted Bands				
MHz	MHz	MHz	GHz	
0.09-0.11	16.42-16.423	399.9-410	4.5-5.25	
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
6.125-6.218	74.8-75.2	1660-1710	10.6-12.7	
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	
6.31175-6.31225	123-138	2200-2300	14.47-14.5	
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12	
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
12.57675-12.57725	322-335.4	3600-4400	Above 38.6	
13.36-13.41	1718			

#### 

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

FCC PART 15, SUBPART C & RSS-210, Issue 6

EQUIPMENT: Gigaset SE567/ Gigaset SE568

Digital Transmission Systems Test Report No.: 6L0424RUS1

NAME OF TEST: Transmitter Power Density		PARA. NO.: 15.247(e)
Minimum Standard:	The transmitted power de interval shall not be great bandwidth.	ensity averaged over any 1 second er than +8 dBm in any 3 kHz
Method Of Measureme	ent: The spectrum ana	lyzer is set as follows:
	RBW: 3 kHz VBW: >3 kHz Span: Sufficient to captu Sweep: Span(kHz)/3 (i.e rate is 1500/3 = 500 sec. LOG dB/div.: 2 dB	re the peak envelope. . for a span of 1.5 MHz the sweep
Note: For ana	r devices with spectrum line s alyzer is reduced until the spe	pacing =< 3 kHz, the RBW of the ectral lines are resolved. The

**Note:** For devices with spectrum line spacing =< 3 kHz, the RBW of the analyzer is reduced until the spectral lines are resolved. The measurement data is normalized to 3 kHz by summing the power of all the individual spectral lines within a 3 kHz band in linear power units.

#### For Devices With Integral Antenna:

For devices with non-detachable antennas, the received field strength is peaked and the spectrum analyzer is set as above. The peak emission level is then measured and converted to a field strength by adding the appropriate antenna factor and cable loss. This field strength is then converted to an equivalent isotropic radiated power using the same method as described for Peak Power output.

Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

Nemko USA, I	I <b>nc.</b> FCC PAR	T 15, SUBPART C & RS	S-210, Issue 6
		Digital Transm	ission Systems
EQUIPMENT: (	Gigaset SE567/ Gigaset SE568	Test Report No.:	6L0424RUS1

# **ANNEX B - TEST DIAGRAMS**

Nemko USA, Inc. FCC PART 15		5, SUBPART C & RSS-210, Issue 6		
			Digital Transm	ission Systems
EQUIPMENT:	Gigaset SE567/ Giga	aset SE568	Test Report No.:	6L0424RUS1

#### Test Site For Radiated Emissions



#### **Conducted Emissions**



#### Peak Power At Antenna Terminals



Minimum 6 dB Bandwidth Peak Power Spectral Density Spurious Emissions (conducted)

