

<u>APPLICANT</u>	<u>MANUFACTURER</u>
Philips Consumer Communications 535 Mountain Avenue Murray Hill, NJ 07971	Golden Eagle Electronics Manufactory LTD. Suite 215, 2/F., New East Ocean Centre 9 Science Museum Road Tsim Sha Tsui East, Kowloon Hong Kong, China

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C

TEST PROCEDURE: FCC 15.249(a)

TEST SAMPLE DESCRIPTION

BRANDNAME: Com-Talk

MODEL: GEE900 FCC ID: NRM900LUCENT

TYPE: 900 MHz Wireless Intercom

FREQUENCY RANGE: 902-928 MHz (Operates at 920.1, 920.6 and 921.1)

POWER REQUIREMENTS: 4 "AA" Batteries or 7.5VDC derived from AC adapter

TESTS PERFORMED

- 15.249(a) Radiated Emissions, Fundamental and Harmonics
- 15.249(c)/15.209 Out-of-Band Radiated Emissions
- 15.294(c) Occupied Bandwidth
- 15.207(a) Conducted Emissions

Report Number: R-7434
FCC ID #: NRM900LUCENT

REPORT OF MEASUREMENTS

Applicant: PHILLIPS
Device: 900 MHz Wireless Intercom
FCC ID: NRM900LUCENT
Power Requirements: 4 "AA" Batteries or 7.5 VDC derived from AC Adapter
Applicable Rule Section: Part 15, Subpart C, Section 15.249

TEST RESULTS

- 15.203: The intentional radiator is designed to ensure that no antenna other than that furnished by the applicant can be used with the device.
- 15.207(a): The radio frequency voltage that was conducted back on to the AC power line on any frequency/frequencies within the bandwidth of 450kHz to 30MHz did not exceed 250 microvolts.
- 15.249(a): The unit operates in the 902-928 MHz band. The field strength of the fundamental did not exceed 50mV/M AVERAGE. The field strength of the harmonics did not exceed 500 μ V/M AVERAGE.
- 15.249(b): Field strength readings were taken at three meters unless otherwise noted.
- 15.249(c): Emissions radiated outside the specified frequency band were attenuated in accordance with the general radiated emissions limits of 15.209.
- 15.249(d): The peak field strength of any emission did not exceed the maximum permitted average field strength by more than 20dB under any condition of modulation.

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GENERAL NOTES

1. The AC input was varied from 85 to 115% of the rated input. Field strength measurements were taken with the AC input adjusted to produce the maximum emissions.
2. All user accessible controls were adjusted to produce maximum emissions.
3. Measurements of conducted emissions were performed utilizing a 50 ohm/50 μ henry Line Impedance Stabilization Network (LISN).
4. The unit operates in the band of 902-928 MHz. The unit operates at three (3) discrete frequencies, 920.1 MHz, 920.6 MHz and 921.1 MHz. Since the unit tunes over a range greater than 1 MHz, two frequencies were chosen for testing, in accordance with Section 15.31(m). The unit was tested at 920.1 MHz, 921.1 MHz.
5. The frequency range was scanned from 30MHz to 9.3 GHz. All emissions not reported were more than 20dB below the specified limit.

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EXHIBIT 4

Radiated Emissions, Fundamental & Harmonics

Para. 15.249(a)

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Test Method:	FCC Part 15 Subpart C Radiated Emissions Paragraph 15.249(a)		
Customer:	Philips Consumer Communication	Job No.:	R-7434
Test Sample:	900 Mhz Wireless Intercom	FCC ID:	NRM900LUCENT
Model No.:	GEE900	Serial No.:	N/A
Operating Mode:	Continuously transmitting 920.0 Mhz Signal		
Technician:	Dennis Cortes	Date:	May 21,1999
Notes:	Test Distance: 3 Meters Detector: Peak	Temp:24C	Humidity:21%

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	uV/m	uV/m
920.0	H / 1.0	X	74.6	7.3	81.9	12445.1	50000
920.0	H / 1.0	Y	72.3	7.3	79.6	9549.9	50000
920.0	H / 1.3	Z	74.1	7.3	81.4	11749.0	50000
920.0	V / 1.0	X	75.7	7.3	83.0	14125.4	50000
920.0	V / 1.0	Y	73.7	7.3	81.0	11220.2	50000
920.0	V / 1.4	Z	73.0	7.3	80.3	10351.4	50000
1840.0	H / 1.2	X	49.3	-2.6	46.7	216.3	500
1840.0	H / 1.2	Y	46.1	-2.6	43.5	149.6	500
1840.0	H / 1.3	Z	44.4	-2.6	41.8	123.0	500
1840.0	V / 1.2	X	46.8	-2.6	44.2	162.2	500
1840.0	V / 1.0	Y	45.8	-2.6	43.2	144.5	500
1840.0	V / 1.0	Z	46.5	-2.6	43.9	156.7	500
2760.0	H / 1.3	X	45.5	1.1	46.6	213.8	500
2760.0	H / 1.1	Y	44.1	1.1	45.2	182.0	500
2760.0	H / 1.1	Z	44.8	1.1	45.9	197.2	500
2760.0	V / 1.3	X	46.7	1.1	47.8	245.5	500
2760.0	V / 1.0	Y	49.3	1.1	50.4	331.1	500
2760.0	V / 1.0	Z	46.2	1.1	47.3	231.7	500
3680.0	H / 1.1	X	42.5	7.3	49.8	309.0	500
3680.0	H / 1.2	Y	41.7	7.3	49.0	281.8	500
3680.0	H / 1.2	Z	42.3	7.3	49.6	302.0	500
3680.0	V / 1.5	X	41.8	7.3	49.1	285.1	500
3680.0	V / 1.4	Y	43.3	7.3	50.6	338.8	500
3680.0	V / 1.0	Z	42.3	7.3	49.6	302.0	500
4600.0	H & V	X, Y & Z	41.0	2.6	43.6	*151.4	500
5520.0	H & V	X, Y & Z	40.6	-4.8	35.8	*61.7	500
6440.0	H & V	X, Y & Z	42.7	-2.2	40.5	*105.9	500
7360.0	H & V	X, Y & Z	42.9	-4.1	38.8	*87.1	500
8280.0	H & V	X, Y & Z	43.3	-3.1	40.2	*102.3	500
9200.0	H & V	X, Y & Z	43.6	-1.3	42.3	*130.3	500

The frequency range was scanned from 30 Mhz to 9.2Ghz.
Emissions from the EUT do not exceed the specified limits.
*=Noise Floor Measurements (Minimum system sensitivity)

Test Method:	FCC Part 15 Subpart C Radiated Emissions 15.249(a)		
Customer:	Philips Consumer Communication	Job No.	R-7434
Test Sample:	900 Mhz Wireless Intercom	FCC ID:	NRM900LUCENT
Model No.:	GEE900	Serial No.	N/A
Operating Mode:	Continuously transmitting 921.0 Mhz Signal		
Technician:	Dennis Cortes	Date:	March 21,1999
Notes:	Test Distance: 3 Meters Temp:24C Humidity:21% Detector: Quasi-Peak		

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	UV/m	uV/m
921.0	H / 1.2	X	73.3	7.3	80.6	10715.2	50000
921.0	V / 1.0	X	74.7	7.3	82.0	12589.3	50000
1842.0	H / 1.2	X	48.4	-2.6	45.8	195.0	500
1842.0	V / 1.5	X	47.7	-2.6	45.1	179.9	500
2763.0	H / 1.1	X	45.0	1.1	46.1	201.8	500
2763.0	V / 1.0	X	44.0	1.1	45.1	179.9	500
3684.0	H / 1.3	X	40.8	7.3	48.1	254.1	500
3684.0	V / 1.3	X	41.3	7.3	48.6	269.2	500
4605.0	H & V	X	41.0	2.6	43.6	*151.4	500
5526.0	H & V	X	40.6	-4.8	35.8	*61.7	500
6447.0	H & V	X	42.7	-2.2	40.5	*105.9	500
7368.0	H & V	X	42.9	-4.1	38.8	*87.1	500
8289.0	H & V	X	43.3	-3.1	40.2	*102.3	500
9210.0	H & V	X	43.6	-1.3	42.3	*130.3	500

The frequency range was scanned from 30 Mhz to 9.2 Ghz.
Emissions from the EUT do not exceed the specified limits.
*=Noise Floor Measurements (Minimum system sensitivity)

EXHIBIT 4

Radiated Emissions, Spurious Emissions

Para. 15.249(c)

(Please see separate e-file attachment named REspurem.pdf)

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EXHIBIT 4

Occupied Bandwidth

Para. 15.249(c)

(Please see separate e-file attachment named OccBwpg1.pdf, OccBwpg2.pdf and OccBwpg3.pdf)

EXHIBIT 4

Conducted Emissions

Para. 15.207(a)

(Please see separate e-file attachment named CeDatapg1.pdf and CeDatapg1.pdf)

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