

KTL Test Report: 8001229.1

Applicant: VTECH Engineering Canada Ltd.
200-7671 Alderbridge Way
Richmond, BC
V6X 1Z9

Equipment Under Test: 43-1106 (900 MHz Cordless Telephone)
(E.U.T.)

FCC ID: AAO4301106

In Accordance With: **FCC Part 15, Subpart C, 15.249**
For 900 MHz Cordless Telephones

Tested By: KTL Ottawa Inc.
3325 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

Authorized By:

T. Tidwell, Wireless Group Manager

Date:

Total Number of Pages: 28

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EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Section 1. Summary Of Test Results

Manufacturer: VTECH Engineering Canada Ltd.

Model No.: 43-1106

Serial No.: None

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15.249. All tests were conducted using measurement procedure ANSI C63.4-1992. Radiated Emissions were made on an open area test site.



New Submission



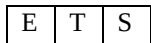
Production Unit



Class II Permissive Change



Pre-Production Unit



Equipment Code

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.

See " Summary of Test Data".



NVLAP LAB CODE: 100351-0

TESTED BY: _____ DATE: _____
Kevin Carr, Technologist

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*EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)**FCC ID: AAO4301106*

Summary Of Test Data**Base:**

NAME OF TEST	PARA. NO.	RESULT
Conducted Emissions	15.207	Complies
Radiated Emissions	15.249	Complies

Handset:

NAME OF TEST	PARA. NO.	RESULT
Radiated Emissions	15.249	Complies

Footnotes For N/A's:**Test Conditions:****Indoor**

Temperature: 22 °C

Humidity: 23 %

Outdoor

Temperature: 5 °C

Humidity: 23 %

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Section 2A. General Equipment Specification

Base:

Equipment: 900 MHz Cordless Telephone

Model Number: 43-1106

Serial Number: None

Frequency Range: 902.3 / 905.0 MHz

Operating Frequency(ies) of Sample: 902.6 & 904.7 MHz

Tunable Bands: 1

Number of Channels: 10

Channel Spacing: 30 kHz

Emission Designator: 100KF1D

Crystal Frequencies: 18.25 MHz

User Frequency Adjustment: None, Software Controlled

Integral Antenna

Yes



No



Note: If antenna is not integral to transmitter explain method of attachment and type of unique connector:

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Section 2B. General Equipment Specification**Handset**

Equipment: 900 MHz Cordless Telephone

Model Number: 43-1106

Serial Number: None

Frequency Range: 925.05 / 927.75 MHz

Operating Frequency(ies) of Sample: 925.35 & 927.45 MHz

Tunable Bands: 1

Number of Channels: 10

Channel Spacing: 30 kHz

Emission Designator: 100KF1D

Crystal Frequencies: 18.25 MHz

User Frequency Adjustment: None, Software Controlled

Integral Antenna

Yes



No



***Note:** If antenna is not integral to transmitter explain method of attachment and type of unique connector:*

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)

FCC ID: AAO4301106

Description of Modification for Class II Permissive Change

NOT APPLICABLE

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)

FCC ID: AAO4301106

Modifications Made During Testing

NOT APPLICABLE

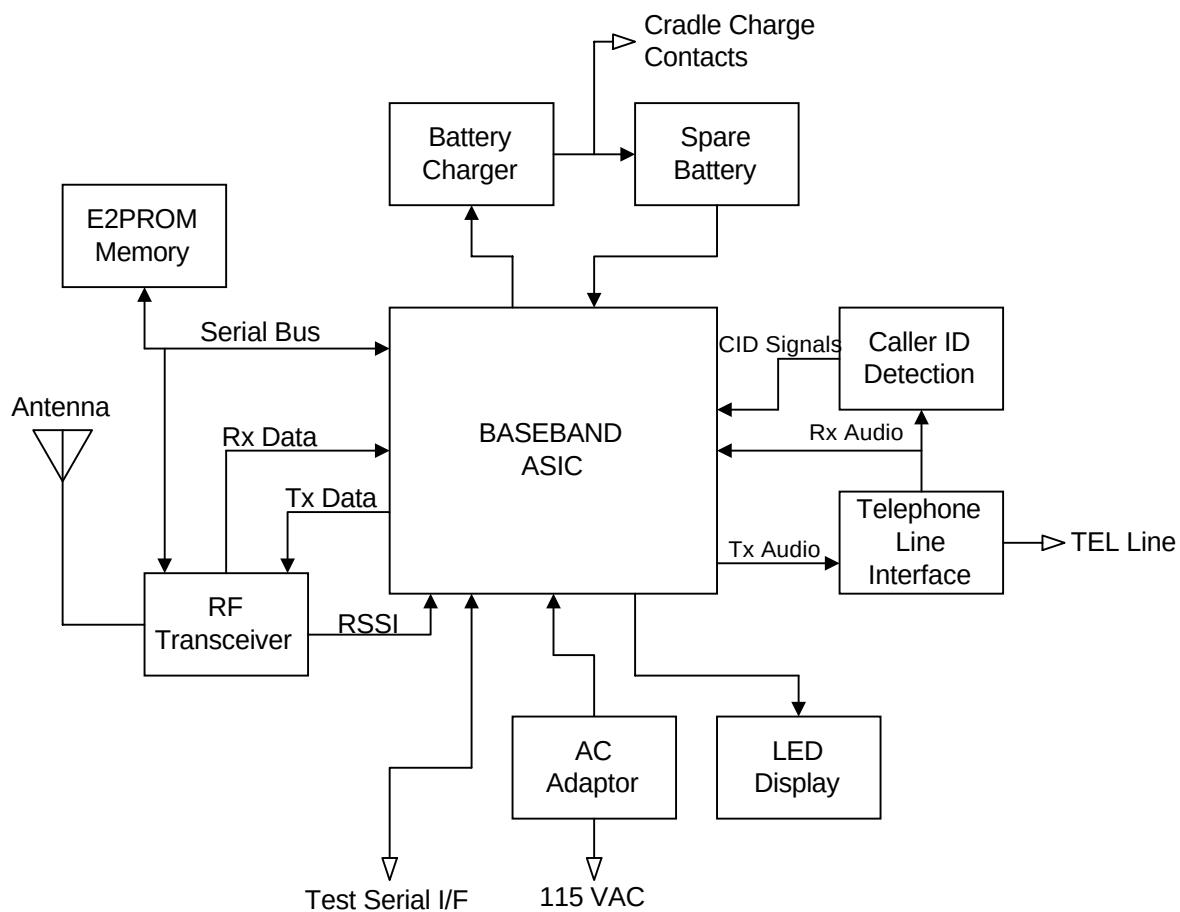
EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Theory of Operation

The E.U.T. is a 900 MHz cordless telephone. The carrier frequency is generated from the second harmonic of a VCO operating at roughly 450 MHz. The unit has 10 channel capability.

System Diagram

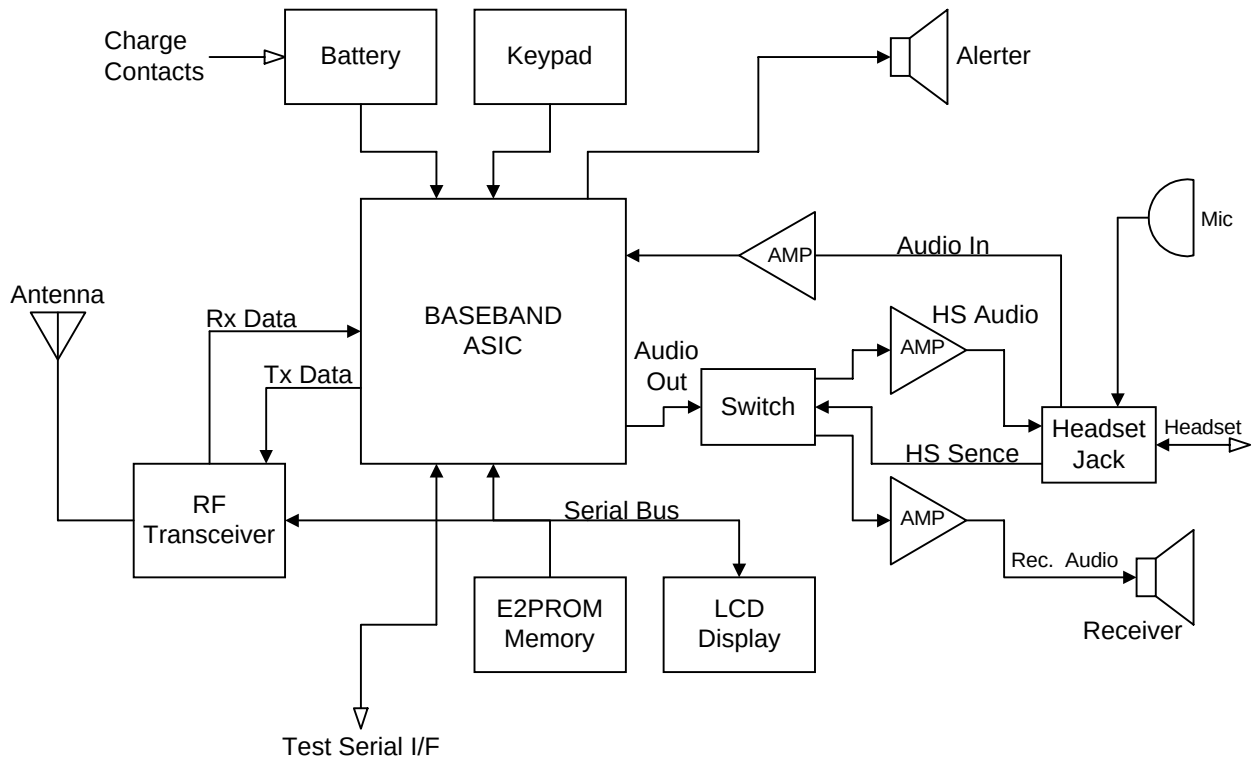
Base Block Diagram



EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

System Diagram, continued

Handset Block Diagram



EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Section 3. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207
TESTED BY: Kevin Carr	DATE: February 1, 1999

Minimum Standard:

Frequency (MHz)	Maximum Powerline Conducted RF Voltage	
	(μ V)	(dB μ V)
0.45 - 30.0	250	48

Test Results: Complies. See attached graph(s).

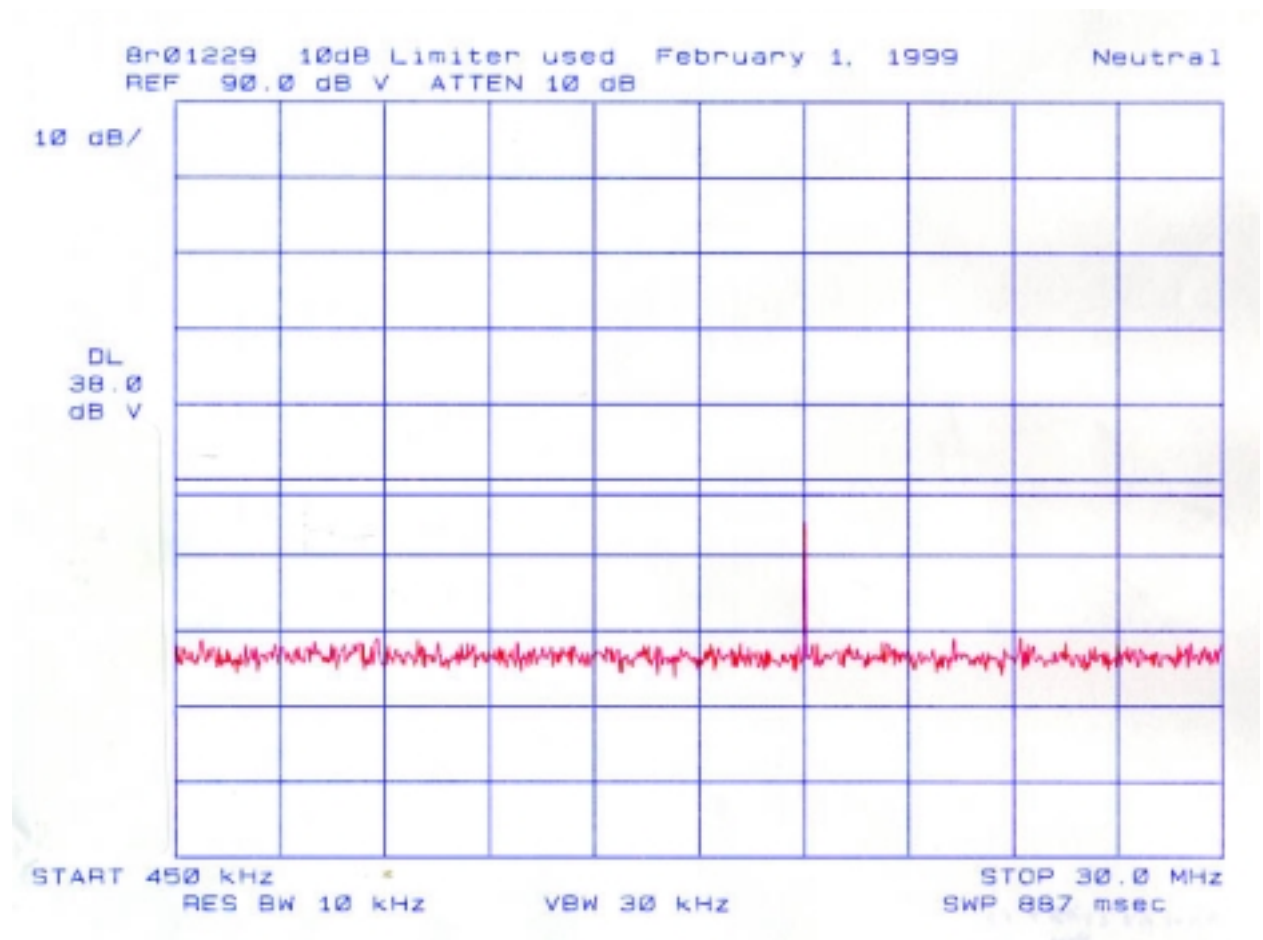
Measurement Data: See attached graph(s).

Method of Measurement: (Procedure ANSI C63.4-1992)

Measurements were made using a spectrum analyzer with 10 kHz RBW, Peak Detector. Any emissions that are close to the limit are measured using a test receiver with 10 kHz bandwidth, CISPR Quasi-Peak Detector.

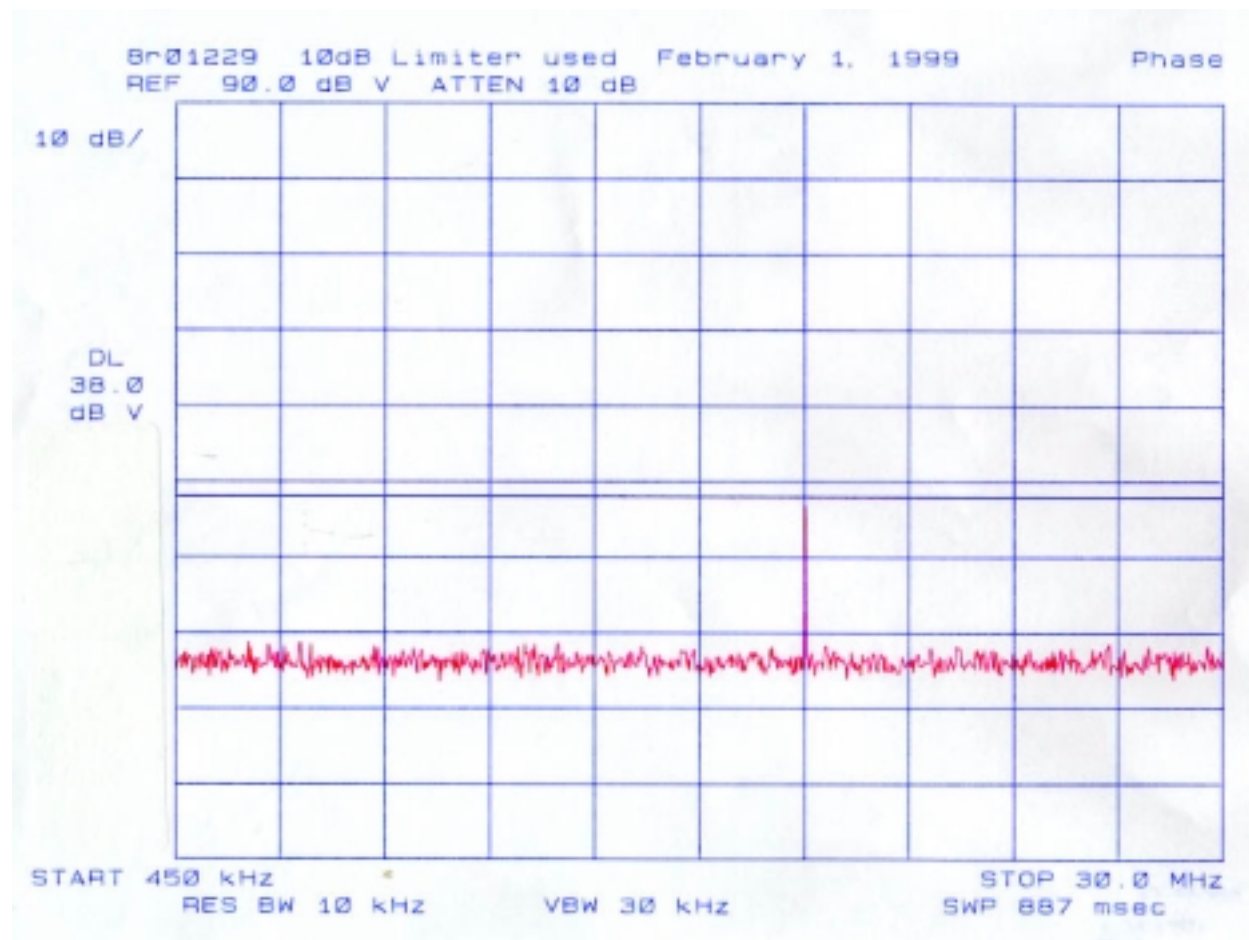
EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)

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EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Conducted Photographs (Worst Case Configuration)

SIDE VIEW



FRONT VIEW



EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Section 4A. Radiated Emissions (Base)

NAME OF TEST: Radiated Emissions (Base)	PARA. NO.: 15.249
TESTED BY: Kevin Carr	DATE: February 4, 1999

Minimum Standard: Para no. 15.249

(a) The field strengths shall not exceed the following:

Fundamental (MHz)	Field Strength (mV/m)	Field Strength (dBμV)	Harmonic (mV/m)	Harmonic (dBμV)
902-928	50	94	0.5	54

(b) Field strength limits are specified at a distance of 3 metres.

(c) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated limits of 15.209 whichever is the less attenuation.

(d) The emission limits shown above are based on measurement instrumentation employing a CISPR quasi-peak detector below 1000 MHz and an averaging detector above 1000 MHz. However, the peak field strength of any emission shall not exceed the average limit by more than 20 dB.

Test Results: Complies. The worst-case emission level is 52.1 dBμV/m @ 3m at 9047.0 MHz. This is 1.9 dB below the specification limit.

Measurement Data: See attached table.

Maximizing Emission Levels:

For hand held equipment or equipment that may be mounted in a variety of positions, the E.U.T. was tested on three orthogonal axis to determine orientation of worst-case emission levels.

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AA04301106**Test Data - Radiated Emissions: Base, Channel 2**

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP, HP8566B		RBW: 120 kHz, 1 MHz		Detector: CISPR, Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBμV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
902.6	E/D4	V			54.4	34.9			89.3	94.0	4.7
902.6	E/D4	H			47.5	34.9			82.4	94.0	11.6
1805.2	Hrn2	V			49.4	30.1	-43.8		35.7	54.0	18.3
1805.2	Hrn2	H			48.6	30.1	-43.8		34.9	54.0	19.1
2707.8	Hrn2	V			45.0	31.9	-45.2		31.7	54.0	22.3
2707.8	Hrn2	H			45.4	31.9	-45.2		32.1	54.0	21.9
3610.0	Hrn2	V			44.6	35.4	-42.3		37.7	54.0	16.3
3610.0	Hrn2	H			44.3	35.4	-42.3		37.4	54.0	16.6
4513.0	Hrn2	V			45.9	37.4	-43.4		39.9	54.0	14.1
4513.0	Hrn2	H			45.6	37.4	-43.4		39.6	54.0	14.4
5415.6	Hrn2	V			43.4	39.9	-43.8		39.5	54.0	14.5
5415.6	Hrn2	H			44.6	39.9	-43.8		40.7	54.0	13.3
6318.0	Hrn2	V			43.3	42.7	-40.8		45.2	54.0	8.8
6318.0	Hrn2	H			44.3	42.7	-40.8		46.2	54.0	7.8
7220.8	Hrn2	V			42.8	44.4	-42.3		44.9	54.0	9.1
7220.8	Hrn2	H			42.7	44.4	-42.3		44.8	54.0	9.2
8123.4	Hrn2	V			38.2	46.8	-43.6		41.4	54.0	12.6
8123.4	Hrn2	H			38.7	46.8	-43.6		41.9	54.0	12.1
9026.0	Hrn2	V			37.9	50.5	-43.4		45.0	54.0	9.0
9026.0	Hrn2	H			37.6	50.5	-43.4		44.7	54.0	9.3
Notes:											
B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole											
* Re-measured using dipole antenna. () Denotes failing emission level.											
(1) 120 kHz, Q-Peak, (2) 10 kHz, Peak, (3) 100 kHz RBW, 300 kHz VBW, Peak,											
(4) 300 kHz RBW, 1 MHz VBW, Peak, (5) 1 MHz RBW, 3 MHz VBW, Peak, (6) 1 MHz RBW, 10 Hz VBW, Peak											

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AA04301106**Test Data - Radiated Emissions: Base, Channel 9**

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP, HP8566B		RBW: 120 kHz, 1 MHz		Detector: CISPR, Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
904.7	E/D4	V			55.4	34.9			90.3	94.0	3.7
904.7	E/D4	H			51.3	34.9			86.2	94.0	7.8
1809.4	Hrn2	V			48.6	30.1	-43.9		34.8	54.0	19.2
1809.4	Hrn2	H			49.6	30.1	-43.9		35.8	54.0	18.2
2714.1	Hrn2	V			45.6	31.9	-45.2		32.3	54.0	21.7
2714.1	Hrn2	H			46.7	31.9	-45.2		33.4	54.0	20.6
3618.8	Hrn2	V			47.2	35.5	-42.3		40.4	54.0	13.6
3618.8	Hrn2	H			45.9	35.5	-42.3		39.1	54.0	14.9
4523.5	Hrn2	V			46.1	37.4	-43.4		40.1	54.0	13.9
4523.5	Hrn2	H			45.8	37.4	-43.4		39.8	54.0	14.2
5428.2	Hrn2	V			45.7	39.9	-43.8		41.8	54.0	12.2
5428.2	Hrn2	H			44.2	39.9	-43.8		40.3	54.0	13.7
6332.9	Hrn2	V			45.3	42.7	-40.8		47.2	54.0	6.8
6332.9	Hrn2	H			46.8	42.7	-40.8		48.7	54.0	5.3
7237.6	Hrn2	V			46.5	44.4	-42.3		48.6	54.0	5.4
7237.6	Hrn2	H			45.7	44.4	-42.3		47.8	54.0	6.2
8142.3	Hrn2	V			46.3	47.0	-43.7		49.6	54.0	4.4
8142.3	Hrn2	H			44.7	47.0	-43.7		48.0	54.0	6.0
9047.0	Hrn2	V			45.0	50.5	-43.4		52.1	54.0	1.9
9047.0	Hrn2	H			44.4	50.5	-43.4		51.5	54.0	2.5
Notes:											
B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole											
* Re-measured using dipole antenna. () Denotes failing emission level.											
(1) 120 kHz, Q-Peak, (2) 10 kHz, Peak, (3) 100 kHz RBW, 300 kHz VBW, Peak,											
(4) 300 kHz RBW, 1 MHz VBW, Peak, (5) 1 MHz RBW, 3 MHz VBW, Peak, (6) 1 MHz RBW, 10 Hz VBW, Peak											

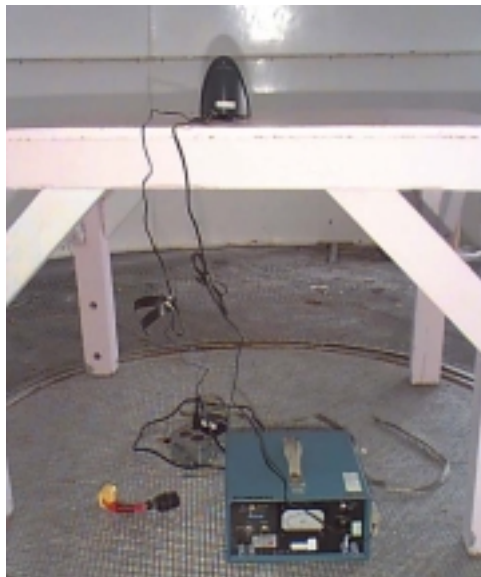
EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Radiated Photographs - Base (Worst Case Configuration)

FRONT VIEW



REAR VIEW



EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Section 4B. Radiated Emissions (Handset)

NAME OF TEST: Radiated Emissions (Handset)	PARA. NO.: 15.249
TESTED BY: Kevin Carr	DATE: February 4, 1999

Minimum Standard: Para no. 15.249

(a) The field strengths shall not exceed the following:

Fundamental (MHz)	Field Strength (mV/m)	Field Strength (dBμV)	Harmonic (mV/m)	Harmonic (dBμV)
902-928	50	94	0.5	54

(b) Field strength limits are specified at a distance of 3 metres.

(c) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated limits of 15.209 whichever is the less attenuation.

(d) The emission limits shown above are based on measurement instrumentation employing a CISPR quasi-peak detector below 1000 MHz and an averaging detector above 1000 MHz. However, the peak field strength of any emission shall not exceed the average limit by more than 20 dB.

Test Results: Complies. The worst-case emission level is 87.9 dBμV/m @ 3m at 925.35 MHz. This is 6.1 dB below the specification limit.

Measurement Data: See attached table.

Maximizing Emission Levels:

For hand held equipment or equipment that may be mounted in a variety of positions, the E.U.T. was tested on three orthogonal axis to determine orientation of worst-case emission levels.

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)

FCC ID: AA04301106

Test Data - Radiated Emissions: Handset, Channel 2

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP, HP8566B		RBW: 120 kHz, 1 MHz		Detector: CISPR, Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
925.35	E/D4	V			52.6	35.3			87.9	94.0	6.1
925.35	E/D4	H			41.2	35.3			76.5	94.0	17.5
1850.7	Hrn2	V			48.4	30.3	-44.6		34.1	54.0	19.9
1850.7	Hrn2	H			49.7	30.3	-44.6		35.4	54.0	18.6
2776.05	Hrn2	V			44.4	32.0	-45.0		31.4	54.0	22.6
2776.05	Hrn2	H			44.8	32.0	-45.0		31.8	54.0	22.2
3701.4	Hrn2	V			46.4	35.6	-42.4		39.6	54.0	14.4
3701.4	Hrn2	H			45.2	35.6	-42.4		38.4	54.0	15.6
4626.75	Hrn2	V			45.8	37.8	-43.7		39.9	54.0	14.1
4626.75	Hrn2	H			45.2	37.8	-43.7		39.3	54.0	14.7
5552.1	Hrn2	V			41.3	40.3	-43.4		38.2	54.0	15.8
5552.1	Hrn2	H			42.3	40.3	-43.4		39.2	54.0	14.8
6477.45	Hrn2	V			42.3	42.8	-40.8		44.3	54.0	9.7
6477.45	Hrn2	H			42.5	42.8	-40.8		44.5	54.0	9.5
7402.8	Hrn2	V			41.6	44.7	-42.1		44.2	54.0	9.8
7402.8	Hrn2	H			41.3	44.7	-42.1		43.9	54.0	10.1
8328.15	Hrn2	V			38.4	48.4	-44.0		42.8	54.0	11.2
8328.15	Hrn2	H			38.4	48.4	-44.0		42.8	54.0	11.2
9253.5	Hrn2	V			36.6	50.6	-43.4		43.8	54.0	10.2
9253.5	Hrn2	H			36.2	50.6	-43.4		43.4	54.0	10.6
Notes:											
B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole											
* Re-measured using dipole antenna. () Denotes failing emission level.											
(1) 120 kHz, Q-Peak, (2) 10 kHz, Peak, (3) 100 kHz RBW, 300 kHz VBW, Peak,											
(4) 300 kHz RBW, 1 MHz VBW, Peak, (5) 1 MHz RBW, 3 MHz VBW, Peak, (6) 1 MHz RBW, 10 Hz VBW, Peak											

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)

FCC ID: AA04301106

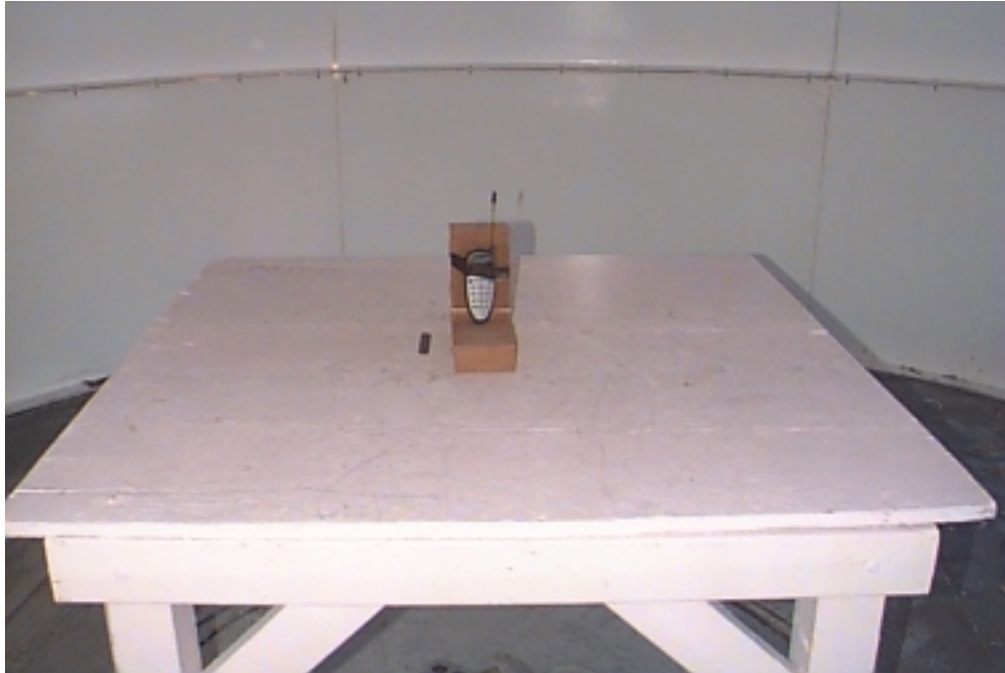
Test Data - Radiated Emissions: Handset, Channel 9

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP, HP8566B		RBW: 120 kHz, 1 MHz		Detector: CISPR, Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
927.45	E/D4	V			49.5	35.3			84.8	94.0	9.2
927.45	E/D4	H			41.4	35.3			76.7	94.0	17.3
1854.9	Hrn2	V			46.9	30.3	-44.6		32.6	54.0	21.4
1854.9	Hrn2	H			48.6	30.3	-44.6		34.3	54.0	19.7
2782.35	Hrn2	V			43.4	32.0	-45.0		30.4	54.0	23.6
2782.35	Hrn2	H			44.4	32.0	-45.0		31.4	54.0	22.6
3709.8	Hrn2	V			45.2	35.6	-42.4		38.4	54.0	15.6
3709.8	Hrn2	H			45.5	35.6	-42.4		38.7	54.0	15.3
4637.25	Hrn2	V			45.7	37.9	-43.7		39.9	54.0	14.1
4637.25	Hrn2	H			45.4	37.9	-43.7		39.6	54.0	14.4
5564.7	Hrn2	V			42.0	40.4	-43.3		39.1	54.0	14.9
5564.7	Hrn2	H			44.3	40.4	-43.3		41.4	54.0	12.6
6492.15	Hrn2	V			42.7	42.8	-40.8		44.7	54.0	9.3
6492.15	Hrn2	H			42.6	42.8	-40.8		44.6	54.0	9.4
7419.6	Hrn2	V			41.4	44.7	-42.1		44.0	54.0	10.0
7419.6	Hrn2	H			43.1	44.7	-42.1		45.7	54.0	8.3
8347.05	Hrn2	V			38.0	48.6	-44.0		42.6	54.0	11.4
8347.05	Hrn2	H			37.4	48.6	-44.0		42.0	54.0	12.0
9274.5	Hrn2	V			36.2	50.6	-43.4		43.4	54.0	10.6
9274.5	Hrn2	H			36.9	50.6	-43.4		44.1	54.0	9.9
Notes: B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole * Re-measured using dipole antenna. () Denotes failing emission level. (1) 120 kHz, Q-Peak, (2) 10 kHz, Peak, (3) 100 kHz RBW, 300 kHz VBW, Peak, (4) 300 kHz RBW, 1 MHz VBW, Peak, (5) 1 MHz RBW, 3 MHz VBW, Peak, (6) 1 MHz RBW, 10 Hz VBW, Peak											

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Radiated Photographs - Handset (Worst Case Configuration)

FRONT VIEW



EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Section 5. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.	
1 Year	Spectrum Analyzer-1	Hewlett Packard	8566B	2311A02238	Oct. 22/98	Oct. 22/99	
1 Year	Spectrum Analyzer Display-1	Hewlett Packard	8566B	2314A04759	Oct. 22/98	Oct. 22/99	
1 Year	Quasi-peak adapter-1	Hewlett-Packard	85650A	2043A00302	Oct. 22/98	Oct. 22/99	
1 Year	Spectrum Analyzer-2	Hewlett Packard	8566B	1950A00400	July 22/98	July 22/99	
1 Year	Spectrum Analyzer Display-2	Hewlett Packard	85662A	1950A01177	July 22/98	July 22/99	
1 Year	Quasi Peak Adaptor-2	Hewlett Packard	85650A	2251A00620	July 22/98	July 22/99	
1 Year	LISN	Rohde & Schwarz	ESH2-Z5	890485/017	July 23/98	July 23/99	
1 Year	Receiver	Rohde & Schwarz	ESVP	892661/014	Mar. 31/98	Mar. 31/99	
	Biconilog Antenna	EMCO	3143	1038	NCR	NCR	
2 Year	Horn Antenna	EMCO #2	3115	4336	Oct. 30/97	Oct. 30/99	
1 Year	Dipole Antenna Set	EMCO	3121C	1029	Oct. 28/98	Oct. 28/99	
1 Year	Low Noise Amplifier	Avantek	AWT-8035	1005	Aug. 4/98	Aug. 4/99	
1 Year	Low Noise Amplifier	DBS Microwave	DWT-13035	9623	Aug. 4/98	Aug. 4/99	

NA: Not Applicable
NCR: No Cal Required

KTL Ottawa

FCC PART 15, SUBPART C
FOR 900 MHz CORDLESS TELEPHONES
PROJECT NO.: 8001229.1
ANNEX A

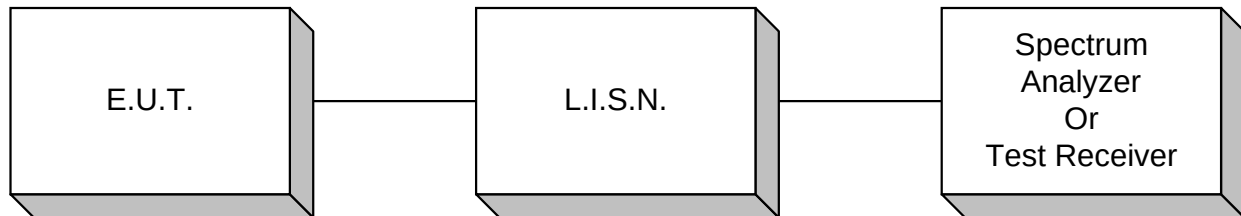
EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

ANNEX A

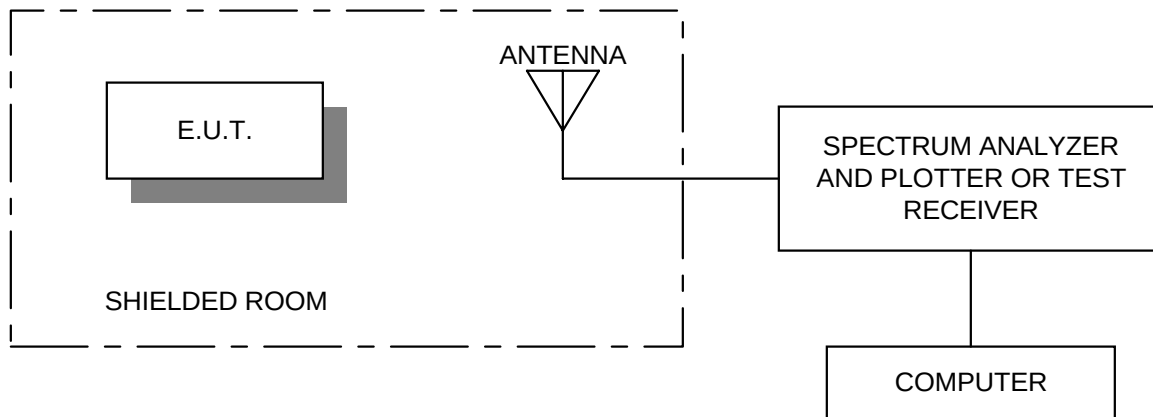
TEST DIAGRAMS

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Conducted Emissions

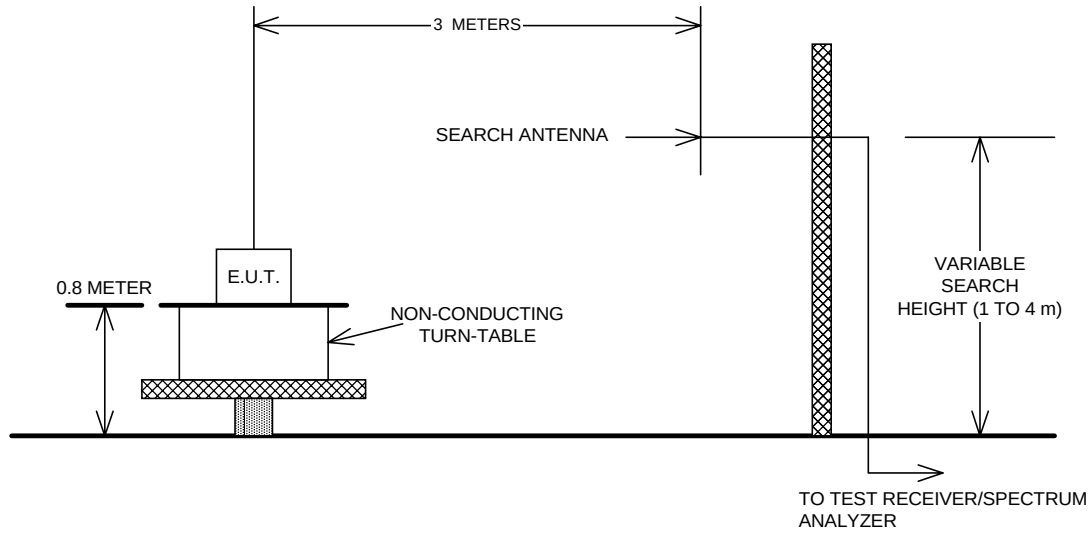


Radiated Prescan



EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Test Site For Radiated Emissions



KTL Ottawa

FCC PART 15, SUBPART C
FOR 900 MHz CORDLESS TELEPHONES
PROJECT NO.: 8001229.1
ANNEX B

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

ANNEX B

RESTRICTED BANDS OF OPERATION

EQUIPMENT: 43-1106 (900 MHz Cordless Telephone)
FCC ID: AAO4301106

Section B Restricted Bands of Operation

(a) Except as shown in paragraph (d) of this section , only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.15
0.49 - 0.51	16.69475-16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425-16.80475	960-1240	7.25-7.75
3.020 - 3.026	25.5-25.67	1300-1427	8.025-8.5
4.125 - 4.128	37.5-38.25	1435-1626.6	9.0-9.2
4.17725 - 4.17775	73-74.6	1645.5-1646.5	9.3-9.5
4.20725 - 4.20775	74.8-75.2	1660-1710	10.6-12.7
6.215 - 6.218	108-121.94	1718.8-1722.2	13.25-13.4
6.31175 - 6.31225	123-138	2220-2300	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			