KTL Test Report:	8R01026.1
Applicant:	VTECH Engineering Canada Ltd. 200-7671 Alderbridge Way Richmond, BC V6X 1Z9
Equipment Under Test: (E.U.T.)	VT 1511, 900 MHz Cordless Phone
FCC ID:	EW780-4221-00
n Accordance With:	FCC Part 15, Subpart C, 15.249 For 900 MHz Cordless Telephones
Гested By:	KTL Ottawa Inc. 3325 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Authorized By:	
	W. Waterhouse, RF Engineering Lab Manager
Date:	
Гotal Number of Pages:	30

FCC ID: EW780-4221-00

Table Of Contents

Section 1. Summary of Test Results

General

Summary of Test Data

Section 2. General Equipment Specification

Specifications

Modifications

Theory of Operation

System Diagram

Section 3. Powerline Conducted Emissions

Test Results

Graphs

Photographs

Section 4A. Radiated Emissions (Base)

Base Test Results

Base Data Table

Base Photographs

Section 4B. Radiated Emissions (Headset)

Handset Test Results

Handset Data Table

Handset Photographs

Section 5. Test Equipment List

Annex A. Test Diagrams

Conducted Emissions

Radiated Prescan

Test Site for Radiated Emissions

Annex B. Restricted Bands

FCC PART 15, SUBPART C FOR 900 MHz CORDLESS TELEPHONES PROJECT NO.: 8R01026.1

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

Section 1.	Summary Of Test	Summary Of Test Results							
Manufacturer	: VTECH Engineering C	VTECH Engineering Canada Ltd.							
Model No.:	VT 1511	VT 1511							
Serial No.:	None								
General:	All measurements are	traceable to nation	nal standards.						
compliance w	vere conducted on a sample of vith FCC Part 15.249. All tests were made of the conducted Emissions were made of the conduc	vere conducted usin	g measurement procedure ANSI						
\boxtimes	New Submission		Production Unit						
	Class II Permissive Change		Pre-Production Unit						
E T S	Equipment Code								
	THIS TEST REPORT RELATE	S ONLY TO THE IT	EM(S) TESTED.						
THE FOLLO	OWING DEVIATIONS FROM, AD SPECIFICATIONS HA See " Summ	·							
	Zl.	VLAP							
	NVLAP LAB	CODE: 100351-0							
TESTED BY:	: Kevin Carr, Technologist	D.	ATE:						
TECHNICAL	REVIEW:		ATE:						
KTL Ottawa Inc. au	uthorizes the above named company to reprodu	ace this report provided it is	reproduced in its entirety and for use by the						

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FCC PART 15, SUBPART C FOR 900 MHz CORDLESS TELEPHONES PROJECT NO.: 8R01026.1

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

Summary Of Test Data

Base:

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

Headset:

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

Footnotes For N/A's:

Test Conditions: Temperature: 23 °C

Humidity: 28 %

FCC ID: EW780-4221-00

connector:

Section 2A. General Equipment Specification

Base:		
Equipment:	900 MHz Cordless Telep	hone
Model Number:	VT 1511	
Serial Number:	None	
Frequency Range:	902.30 – 905.00 MHz	
Operating Frequency(ies) of Sample:	902.30 MHz, 905.00 MH	[z
Tunable Bands:	1	
Number of Channels:	10	
Channel Spacing:	300 kHz	
Emission Designator:	127KF1D	
Crystal Frequencies:	Not Applicable	
User Frequency Adjustment:	"Up" and "Down" Chan	nel Selectors
Integral Antenna	Yes	No
Note: If antenna is not integral to transmitter	explain method of attachment an	d type of unio

FCC ID: EW780-4221-00

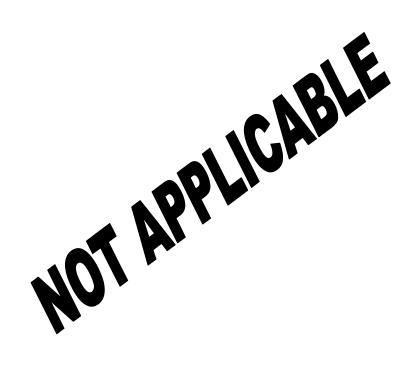
connector:

Section 2B. General Equipment Specification

Headset	
Equipment:	900 MHz Cordless Telephone
Model Number:	VT 1511
Serial Number:	None
Frequency Range:	925.05 – 927.75 MHz
Operating Frequency(ies) of Sample:	925.05 MHz, 927.75 MHz
Tunable Bands:	1
Number of Channels:	10
Channel Spacing:	300 kHz
Emission Designator:	127KF1D
Crystal Frequencies:	Not Applicable
User Frequency Adjustment:	"Up" and "Down" Channel Selectors
Integral Antenna	Yes No
Note: If antenna is not integral to transmitter explain n	nethod of attachment and type of unique

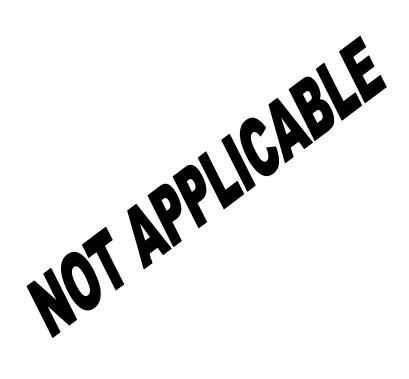
FCC ID: EW780-4221-00

Description of Modification for Class II Permissive Change



FCC ID: EW780-4221-00

Modifications Made During Testing

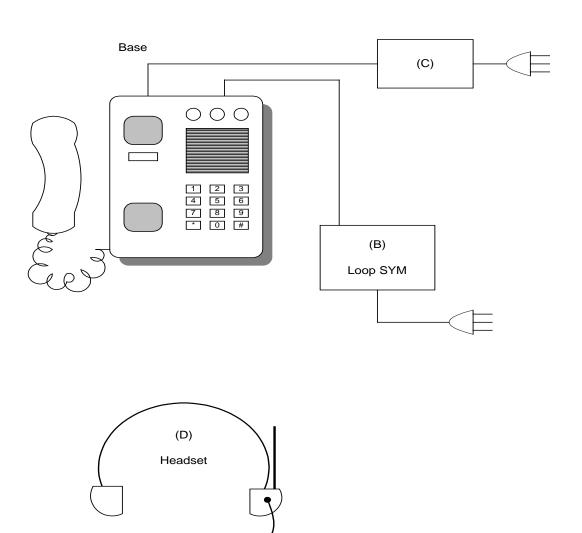


FCC ID: EW780-4221-00

Theory of Operation

The VT 1511is a wireless headset telephone system. The headset unit is accompanied with an infrared dial-card, a dialing base unit with corded handset and a separate headset charging station.

System Diagram



FCC PART 15, SUBPART C FOR 900 MHz CORDLESS TELEPHONES PROJECT NO.: 8R01026.1

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

Section 3. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions PARA. NO.: 15.207

TESTED BY: Kevin Carr DATE: November 4, 1998

Test Conditions: Standard Temperature and Humidity

Standard Test Voltage

Minimum Standard:

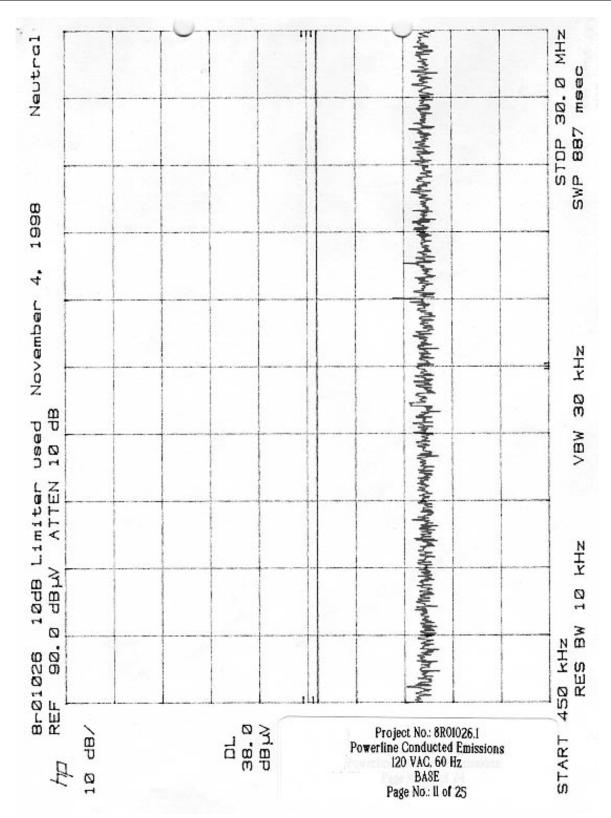
Frequency	Maximum Powerline Conducted RF Voltage				
(MHz)	(μV)	(dBµV)			
0.45 - 30.0	250	48			

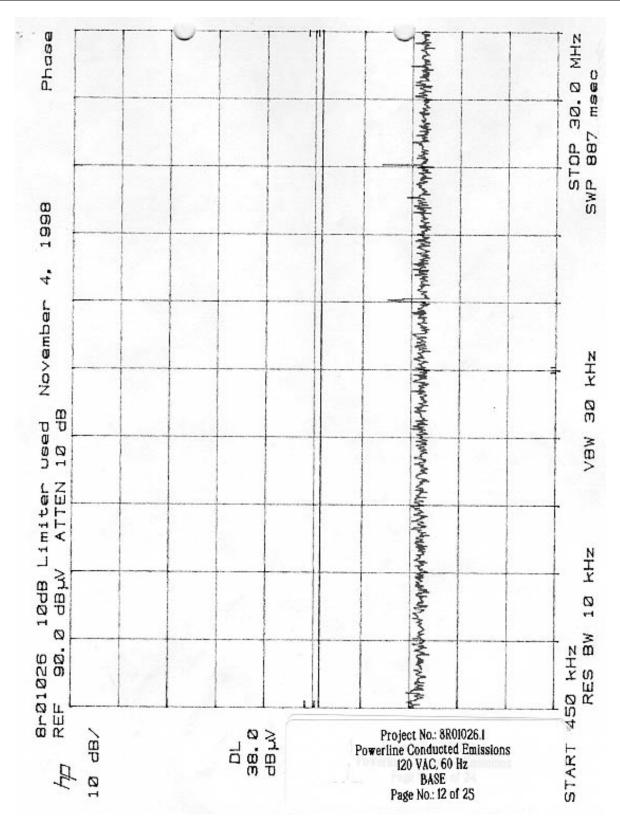
Test Results: Complies. See attached graph(s).

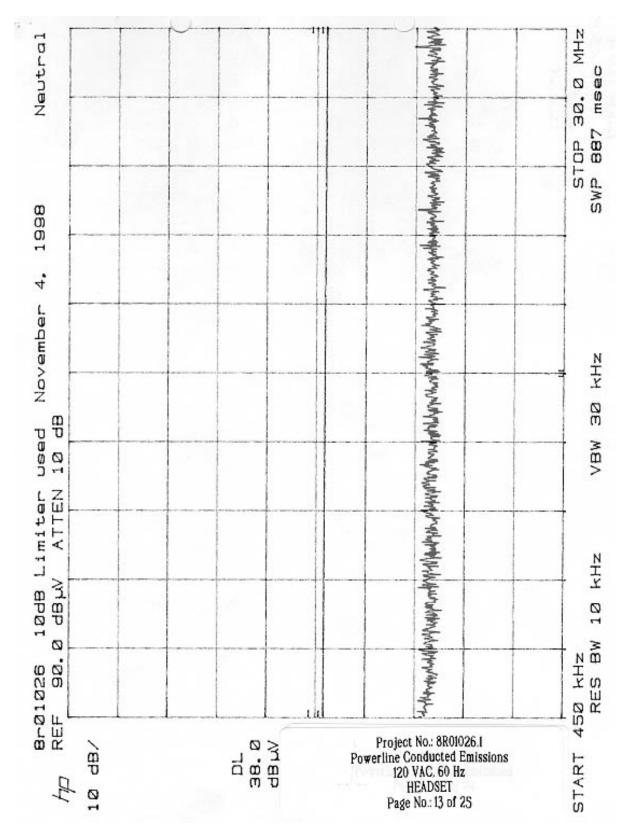
Measurement Data: See attached graph(s).

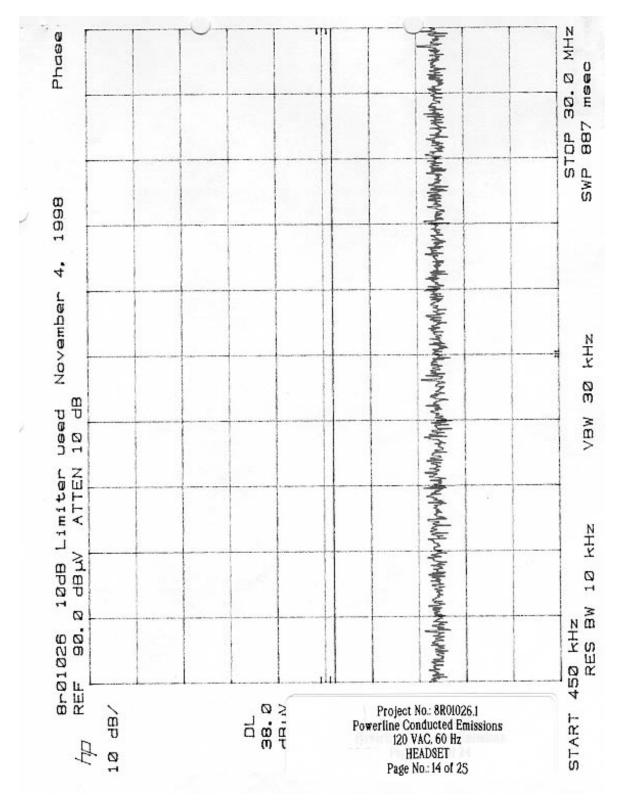
Method of Measurement: (Procedure ANSI C63.4-1992)

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.









FCC ID: EW780-4221-00

Conducted Photographs: Base (Worst Case Configuration)

Front View



Side View



FCC ID: EW780-4221-00

Conducted Photographs: Headset (Worst Case Configuration)

Front View



Side View



FCC PART 15, SUBPART C FOR 900 MHz CORDLESS TELEPHONES PROJECT NO.: 8R01026.1

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

Section 4A. Radiated Emissions (Base)

NAME OF TEST: Radiated Emissions (Base) PARA. NO.: 15.249

TESTED BY: Kevin Carr DATE: November 4, 1998

Test Conditions: Outdoor Range

Standard Test Voltage

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 89.8 dBµV/m @ 3m

at 902.3 MHz. This is 4.2 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.

FCC ID: EW780-4221-00

Test Data - Radiated Emissions: Base

Test Dis			nge: ower		eiver: SVP		(kHz): z / 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)
Channel	1										
902.3	E/D4	V			55.3	34.5			89.9	94.0	4.2
902.3	E/D4	Н			50.9	34.5			85.4	94.0	8.6
1804.6	Hrn2	V			50.1	30.9	-45.8		35.2	54.0	18.8
1804.6	Hrn2	Н			50.8	30.9	-45.8		35.9	54.0	18.1
2706.9	Hrn2	V			49.3	33.9	-46.0		37.2	54.0	16.8
2706.9	Hrn2	Н			48.5	33.9	-46.0		36.4	54.0	17.6
3609.2	Hrn2	V			45.5	40.1	-45.2		40.4	54.0	13.6
3609.2	Hrn2	Н			46.2	40.1	-45.2		41.1	54.0	12.9
4511.5	Hrn2	V			44.8	39.8	-45.5		39.1	54.0	14.9
4511.5	Hrn2	Н			46.2	39.8	-45.5		40.5	54.0	13.5
5413.8	Hrn2	V			43.8	42.5	-45.7		40.6	54.0	13.4
5413.8	Hrn2	Н			44.8	42.5	-45.7		41.6	54.0	12.4
6316.1	Hrn2	V			42.3	44.4	-45.3		41.4	54.0	12.6
6316.1	Hrn2	Н			41.2	44.4	-45.3		40.3	54.0	13.7
7218.4	Hrn2	V			41.5	46.2	-45.8		41.9	54.0	12.1
7218.4	Hrn2	Н			42.5	46.2	-45.8		42.9	54.0	11.1
8120.7	Hrn2	V			37.0	47.8	-43.6		41.2	54.0	12.8
8120.7	Hrn2	Н			36.8	47.8	-43.6		41.0	54.0	13.0
9023.0	Hrn2	V			37.7	50.5	-43.4		44.8	54.0	9.2
9023.0	Hrn2	Н			36.3	50.5	-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

FCC ID: EW780-4221-00

Test Data - Radiated Emissions: Base, continued

Test Dis			nge: ower		eiver: SVP		(kHz): z / 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)
Channel	10										
905.03	R/D4	V			52.2	34.4			86.6	94.0	7.4
905.03	R/D4	Н			49.0	34.4			83.4	94.0	10.6
1810.06	Hrn2	V			51.2	30.9	-45.8		36.3	54.0	17.7
1810.06	Hrn2	Н			54.7	30.9	-45.8		39.8	54.0	14.2
2715.09	Hrn2	V			49.7	33.9	-45.9		37.7	54.0	16.3
2715.09	Hrn2	Н			50.8	33.9	-45.9		38.8	54.0	15.2
3620.12	Hrn2	V			47.2	40.2	-45.2		42.2	54.0	11.8
3620.12	Hrn2	Н			49.0	40.2	-45.2		44.0	54.0	10.0
4525.15	Hrn2	V			45.0	39.8	-45.5		39.3	54.0	14.7
4525.15	Hrn2	Н			45.8	39.8	-45.5		40.1	54.0	13.9
5430.18	Hrn2	V			46.8	42.6	-45.7		43.7	54.0	10.3
5430.18	Hrn2	Н			46.0	42.6	-45.7		42.9	54.0	11.1
6335.21	Hrn2	V			44.5	44.5	-45.3		43.7	54.0	10.3
6335.21	Hrn2	Н			44.0	44.5	-45.3		43.2	54.0	10.8
7240.24	Hrn2	V			44.7	46.2	-45.8		45.1	54.0	8.9
7240.24	Hrn2	Н			44.3	46.2	-45.8		44.7	54.0	9.3
8145.27	Hrn2	V	_		41.8	48.0	-43.7		46.1	54.0	7.9
8145.27	Hrn2	Н			42.0	48.0	-43.7		46.3	54.0	7.7
9050.3	Hrn2	V			42.0	50.5	-43.4		49.1	54.0	4.9
9050.3	Hrn2	Н			41.8	50.5	-43.4		48.9	54.0	5.1

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

FCC ID: EW780-4221-00

Radiated Photographs - Base (Worst Case Configuration)

Front View



Rear View



FCC PART 15, SUBPART C FOR 900 MHz CORDLESS TELEPHONES PROJECT NO.: 8R01026.1

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

Section 4B. Radiated Emissions (Headset)

NAME OF TEST: Radiated Emissions (Headset) PARA. NO.: 15.249

TESTED BY: Kevin Carr DATE: November 6, 1998

Test Conditions: Outdoor Range

Standard Test Voltage

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 89.0 dBuV/m @ 3m

at 927.8 MHz. This is 5.0 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.

FCC ID: EW780-4221-00

Test Data - Radiated Emissions: Headset

Test Dis			nge: ower		eiver: SVP		(kHz): z/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)
Channel	Channel 1										
925.08	R/D4	V			47.5	34.9			82.4	94.0	11.6
925.08	R/D4	Н			46.6	34.9			81.5	94.0	12.5
1850.2	Hrn2	V			46.4	31.3	-45.9		31.8	54.0	22.2
1850.2	Hrn2	Н			47.6	31.3	-45.9		33.0	54.0	21.0
2775.24	Hrn2	V			48.8	34.2	-45.8		37.2	54.0	16.8
2775.24	Hrn2	Н			49.0	34.2	-45.8		37.4	54.0	16.6
3700.3	Hrn2	V			46.9	40.2	-45.3		41.8	54.0	12.2
3700.3	Hrn2	Н			46.6	40.2	-45.3		41.5	54.0	12.5
4625.4	Hrn2	V			46.9	40.2	-45.7		41.4	54.0	12.6
4625.4	Hrn2	Н			47.3	40.2	-45.7		41.8	54.0	12.2
5550.5	Hrn2	V			45.9	42.7	-45.6		43.0	54.0	11.0
5550.5	Hrn2	Н			44.9	42.7	-45.6		42.0	54.0	12.0
6475.6	Hrn2	V			44.0	45.0	-45.2		43.8	54.0	10.2
6475.6	Hrn2	Н			44.0	45.0	-45.2		43.8	54.0	10.2
7400.45	Hrn2	V			42.6	46.5	-45.6		43.5	54.0	10.5
7400.45	Hrn2	Н			42.1	46.5	-45.6		43.0	54.0	11.0
8325.7	Hrn2	V		-	38.8	49.1	-44.0		43.9	54.0	10.1
8325.7	Hrn2	Н			38.0	49.1	-44.0		43.1	54.0	10.9
9250.8	Hrn2	V			37.2	50.6	-43.4		44.4	54.0	9.6
9250.8	Hrn2	Н			37.7	50.6	-43.4		44.9	54.0	9.1

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

FCC ID: EW780-4221-00

Test Data - Radiated Emissions: Headset, continued

Test Distance (meters): 3		Range: A Tower		Receiver: ESVP		RBW(kHz): 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)
Channel	Channel 10										
927.8	R/D4	V			54.1	34.9			89.0	94.0	5.0
927.8	R/D4	Н			47.1	34.9			82.0	94.0	12.0
1855.6	Hrn2	V			41.6	31.3	-45.9		27.0	54.0	27.0
1855.6	Hrn2	Н			42.0	31.3	-45.9		27.4	54.0	26.6
2783.4	Hrn2	V			44.2	34.2	-45.8		32.6	54.0	21.4
2783.4	Hrn2	Н			44.6	34.2	-45.8		33.0	54.0	21.0
3711.2	Hrn2	V			44.4	40.2	-45.3		39.3	54.0	14.7
3711.2	Hrn2	Н			42.2	40.2	-45.3		37.1	54.0	16.9
4639.0	Hrn2	V			42.5	40.3	-45.7		37.1	54.0	16.9
4639.0	Hrn2	Н			43.7	40.3	-45.7		38.3	54.0	15.7
5566.8	Hrn2	V			40.4	42.8	-45.6		37.6	54.0	16.4
5566.8	Hrn2	Н			41.2	42.8	-45.6		38.4	54.0	15.6
6494.6	Hrn2	V			38.8	45.0	-45.2		38.6	54.0	15.4
6494.6	Hrn2	Н			39.1	45.0	-45.2		38.9	54.0	15.1
7422.4	Hrn2	V			39.0	46.5	-45.6		39.9	54.0	14.1
7422.4	Hrn2	Н			38.8	46.5	-45.6		39.7	54.0	14.3
8350.2	Hrn2	V			35.0	49.2	-44.0		40.2	54.0	13.8
8350.2	Hrn2	Н			33.4	49.2	-44.0		38.6	54.0	15.4
9278.0	Hrn2	V			33.1	50.6	-43.4		40.3	54.0	13.7
9278.0	Hrn2	Н			32.8	50.6	-43.4		40.0	54.0	14.0

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

FCC ID: EW780-4221-00

Radiated Photographs - Headset (Worst Case Configuration)

Front View



Rear View



FCC ID: EW780-4221-00

Section 5. Test Equipment List

Equipment List - Conducted Emissions - Shielded Room #2

CAL	Equipment	Manufacturer	Model #	Serial/Asset #	Last Cal.	Next Cal.		
Cycle								
1 Year	LISN	Tegram	95300-50	T-128555	July 24/98	July 24/99		
1Year	LISN	Tegam	95300-50	T-128556	July 24/98	July 24/99		
1Year	Spectrum analyzer	Hewlett-Packard	8565E	FA000981	May 20/98	May 20/99		

Equipment List - Radiated Emissions

CAL Cycle	Equipment	Manufacturer	Model #	Serial/Asset #	Last Cal.	Next Cal.
1Year	Receiver	Rohde & Schwarz	ESVP	892661/014	Mar. 31/98	Mar. 31/99
1Year	Spectrum Analyzer	Hewlett-Packard	8565E	FA000981	May 20/98	May 20/99
1Year	Spectrum Analyzer	Hewlett-Packard	8566B	2311A02238	Oct. 22/98	Oct. 22/99
1Year	Spectrum Analyzer Display	Hewlett-Packard	8566B	2314A04759	Oct. 22/98	Oct. 22/99
1Year	Quasi-Peak Adapter	Hewlett Packard	85650A	2043A00302	Oct. 22/98	Oct. 22/99
	Plotter	Hewlett-Packard	7550A	28484 15123	N/A	N/A
1Year	Dipole Antenna	Roberts Inst.	N/A	FA000747	June 5/98	June 5/99
2 Year	Horn Antenna #2	EMCO	3115	4336	Oct. 30/97	Oct. 30/99
1 Year	Log Periodic Antenna	EMCO	LPA-25	1141	July 27/98	July 27/99
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

Note: N/A = Not ApplicableNCR = No Cal Required

 $\label{eq:fcc} FCC~PART~15,~SUBPART~C$ FOR 900 MHz CORDLESS TELEPHONES

PROJECT NO.: 8R01026.1 ANNEX A

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

ANNEX A

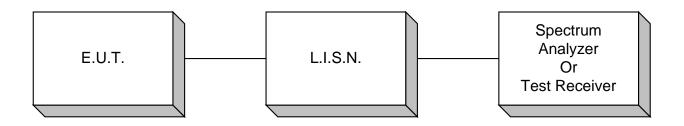
TEST DIAGRAMS

ANNEX A

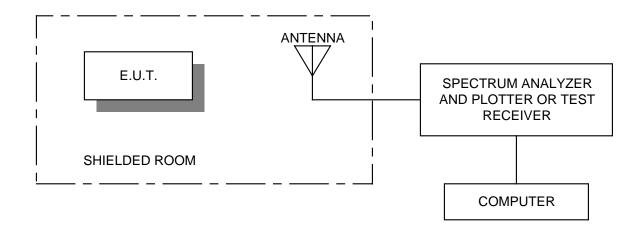
EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

Conducted Emissions



Radiated Prescan

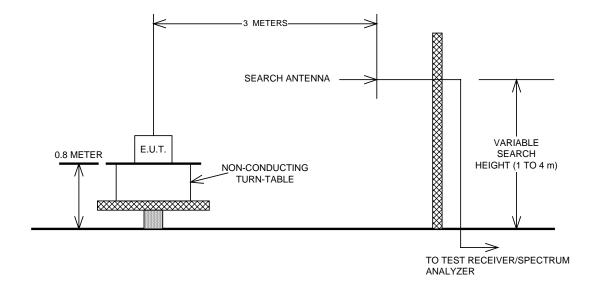


ANNEX A

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

Test Site For Radiated Emissions



 $FCC\ PART\ 15,\ SUBPART\ C \\ FOR\ 900\ MHz\ CORDLESS\ TELEPHONES$

PROJECT NO.: 8R01026.1 ANNEX B

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

ANNEX B RESTRICTED BANDS OF OPERATION

ANNEX B

EQUIPMENT: VT 1511, 900 MHz Cordless Telephone

FCC ID: EW780-4221-00

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			