

KTL Test Report: 8R01229

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

**Equipment Under Test:
(E.U.T.)** VT1421 900 MHz Cordless Telephone

FCC ID: AA04301106

In Accordance With: **FCC Part 15, Subpart B**
Radio Receivers

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: 32

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

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EQUIPMENT: VT1421 900 MHz Cordless Telephone
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EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Section 1. Summary of Test Results

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, Subpart B. Measurement procedure ANSI C63.4-1992 was used for all tests. Radiated Emissions were measured on an open area test site.

- | | | | | | | |
|--|----------------------------|-------------------------------------|---------------------|----------------|--|--|
| <input checked="" type="checkbox"/> | New Submission | <input checked="" type="checkbox"/> | Production Unit | | | |
| <input type="checkbox"/> | Class II Permissive Change | <input type="checkbox"/> | Pre-Production Unit | | | |
| <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="padding: 2px;">E</td><td style="padding: 2px;">T</td><td style="padding: 2px;">S</td></tr></table> | E | T | S | Equipment Code | | |
| E | T | S | | | | |

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

It is recommended that the margin of compliance be improved to allow for manufacturing tolerances.

TESTED BY: _____ DATE: _____
Kevin Carr, Technologist

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EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Summary Of Test Data

Name Of Test	Para. No.	Results
Antenna Conducted Emissions	15.111	Not Applicable
Radiated Emissions	15.109	Complies
Powerline Conducted Emissions	15.107	Complies

Footnotes For N/A's:

Test Conditions:

Indoor Temperature: 22 °C
 Humidity: 23 %

Outdoor Temperature: 5 °C
 Humidity: 23 %

EQUIPMENT: VT1421 900 MHz Cordless Telephone
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Section 2. Equipment Under Test (E.U.T.)

Manufacturer: VTECH Engineering Canada Ltd.

Model No.: VT1421

Serial No.: None

Equipment Details

Frequency Range:	Base: 902.3 / 905.0 MHz Handset: 925.05 / 927.75 MHz
Number of Channels:	10
Operating Frequency(ies) of Sample:	Base: 902.6 and 904.7 MHz Handset: 925.35 and 927.45 MHz
Crystal Frequency(ies):	18.25 MHz
Primary Power Requirement:	Base: 120 VAC to 9 Vdc Power Adapter Handset: 3.6 Vdc, NiMH Battery
Bandwidth and Emission Designator:	100KF1D
Intermediate Frequency(ies):	10.7 MHz

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Description of E.U.T.

The E.U.T. is a 900 MHz cordless telephone.

Modifications Incorporated in E.U.T.

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

EQUIPMENT: VT1421 900 MHz Cordless Telephone
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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.

EQUIPMENT: VT1421 900 MHz Cordless Telephone
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Justification

The E.U.T. was configured for testing as per typical installation. Position and bundling of cables were investigated to establish maximum amplitude of emissions.

The following combinations were investigated to establish worst case configuration:

Base:

- Flat on the table

Handset:

- Vertical (Worst Case)
- Horizontal
- Horizontal with 90° lateral shift

Exercise Program

The E.U.T. exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to typical use.

Exercise mode:

- (1) Normal communication mode.

EQUIPMENT: VT1421 900 MHz Cordless Telephone
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Section 3. Equipment Configuration

Equipment Configuration List:

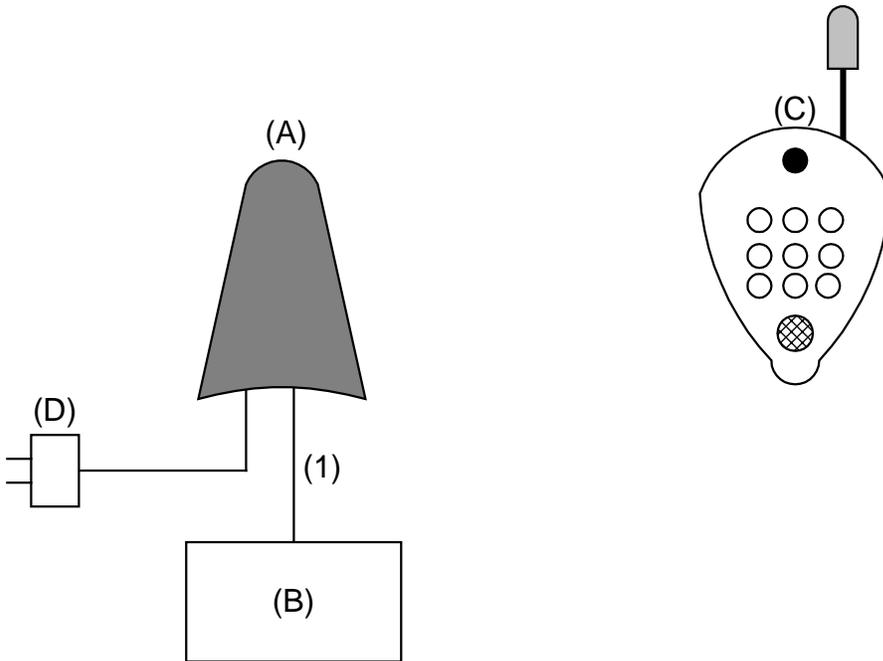
Item	Description	Model No.	Serial.	Rev.
(A)	Base Unit	VT1421	None	
(B)	Telco Simulator	CLI-043	02	
(C)	Handset	VT1421	None	
(D)	Power Cube (AC/DC)	350903002CO	None	

Inter-connection Cables:

Item	Description	Length (m)
(1)	Telco Cable	1.5

EQUIPMENT: VT1421 900 MHz Cordless Telephone
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Configuration of the Equipment Under Test (E.U.T)



EQUIPMENT: VT1421 900 MHz Cordless Telephone
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Section 4. Receiver Antenna Conducted Emissions

NAME OF TEST: Receiver Antenna Conducted Emissions	PARA. NO.: 15.111
TESTED BY:	DATE:

Test Results: Complies/Does Not Comply. See attached graphs and table.

Measurement Data: See attached graphs and table.

NOT APPLICABLE

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

**Section 5(A). Radiated Emissions
Base Unit**

NAME OF TEST: Radiated Emissions	PARA. NO.: 15.109(a)
TESTED BY: Kevin Carr	DATE: February 4, 1999

Minimum Standard:

Frequency(MHz)	Field Strength (dB μ V/m @ 3m)
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960	54.0

Test Results: Complies. The worst-case emission level is 44.6 dB μ V/m @ 3m at 914.65 MHz. This is 0.7dB below the specification limit.

Measurement Data: See attached table.

For super-regenerative receivers the receiver is coerhered using a signal generator and dipole antenna.

Handheld equipment and equipment not designed to be mounted in any fixed orientation, the E.U.T. is tested in three orthogonal axis to obtain worst case results.

EQUIPMENT: VT1421 900 MHz Cordless Telephone
 FCC ID: AA04301106

Test Data - Radiated Emissions: Base, Channel 2, LO

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)
914.65	E/D4	V			9.5	35.1			44.6	46.0	1.4
914.65	E/D4	H			10.2	35.1			45.3	46.0	0.7
1829.3	Hrn2	V			49.6	30.2	-44.2		35.6	54.0	18.4
1829.3	Hrn2	H			50.0	30.2	-44.2		36.0	54.0	18.0
2743.95	Hrn2	V			47.9	32.0	-45.1		34.8	54.0	19.2
2743.95	Hrn2	H			48.2	32.0	-45.1		35.1	54.0	18.9
3658.6	Hrn2	V			48.0	35.5	-42.3		41.2	54.0	12.8
3658.6	Hrn2	H			49.1	35.5	-42.3		42.3	54.0	11.7
4573.25	Hrn2	V			48.4	37.6	-43.5		42.5	54.0	11.5
4573.25	Hrn2	H			49.9	37.6	-43.5		44.0	54.0	2.0
5487.9	Hrn2	V			42.8	40.0	-43.7		39.1	54.0	14.9
5487.9	Hrn2	H			43.9	40.0	-43.7		40.2	54.0	13.8
6402.55	Hrn2	V			46.8	42.8	-40.8		48.8	54.0	5.2
6402.55	Hrn2	H			45.4	42.8	-40.8		47.4	54.0	6.6
7317.2	Hrn2	V			43.2	44.6	-42.2		45.6	54.0	8.4
7317.2	Hrn2	H			43.4	44.6	-42.2		45.8	54.0	8.2
8231.85	Hrn2	V			37.7	47.5	-43.9		41.3	54.0	12.7
8231.85	Hrn2	H			37.5	47.5	-43.9		41.1	54.0	12.9
9146.5	Hrn2	V			37.1	50.5	-43.4		44.2	54.0	9.8
9146.5	Hrn2	H			37.9	50.5	-43.4		45.0	54.0	9.0

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

EQUIPMENT: VT1421 900 MHz Cordless Telephone
 FCC ID: AA04301106

Test Data - Radiated Emissions: Base, Channel 9, LO

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)
916.75	E/D4	V			8.0	35.1			43.1	46.0	2.9
916.75	E/D4	H			6.8	35.1			41.9	46.0	4.1
1833.5	Hrn2	V			49.6	30.2	-44.3		35.5	54.0	18.5
1833.5	Hrn2	H			51.7	30.2	-44.3		37.6	54.0	16.4
2750.25	Hrn2	V			49.3	32.0	-45.1		36.2	54.0	17.8
2750.25	Hrn2	H			48.8	32.0	-45.1		35.7	54.0	18.3
3667.0	Hrn2	V			47.1	35.6	-42.3		40.4	54.0	13.6
3667.0	Hrn2	H			48.0	35.6	-42.3		41.3	54.0	12.7
4583.75	Hrn2	V			49.0	37.6	-43.6		43.0	54.0	11.0
4583.75	Hrn2	H			48.7	37.6	-43.6		42.7	54.0	11.3
5500.5	Hrn2	V			43.3	40.2	-43.6		39.9	54.0	14.1
5500.5	Hrn2	H			44.6	40.2	-43.6		41.2	54.0	12.8
6417.25	Hrn2	V			49.8	52.8	-40.8		51.8	54.0	2.2
6417.25	Hrn2	H			45.4	52.8	-40.8		47.4	54.0	6.6
7334.0	Hrn2	V			42.9	44.6	-42.2		45.3	54.0	8.7
7334.0	Hrn2	H			42.1	44.6	-42.2		44.5	54.0	9.5
8250.75	Hrn2	V			39.4	47.8	-44.0		43.2	54.0	10.8
8250.75	Hrn2	H			38.4	47.8	-44.0		42.2	54.0	11.8
9167.5	Hrn2	V			38.2	50.5	-43.4		45.3	54.0	8.7
9167.5	Hrn2	H			36.9	50.5	-43.4		44.0	54.0	10.0

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

EQUIPMENT: VT1421 900 MHz Cordless Telephone
 FCC ID: AA04301106

Test Data - Radiated Emissions: Handset, Channel 2, LO

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)
913.3	E/D4	V			9.8	35.1			44.9	46.0	1.1
913.3	E/D4	H			10.1	35.1			45.2	46.0	0.8
1826.6	Hrn2	V			48.4	30.2	-44.2		34.4	54.0	19.6
1826.6	Hrn2	H			48.2	30.2	-44.2		34.2	54.0	19.8
2739.9	Hrn2	V			46.0	32.0	-45.1		32.9	54.0	21.1
2739.9	Hrn2	H			44.2	32.0	-45.1		31.1	54.0	22.9
3653.2	Hrn2	V			44.5	35.5	-42.3		37.7	54.0	16.3
3653.2	Hrn2	H			44.6	35.5	-42.3		37.8	54.0	16.2
4566.5	Hrn2	V			45.3	37.6	-43.5		39.4	54.0	14.6
4566.5	Hrn2	H			40.0	37.6	-43.5		34.1	54.0	19.9
5479.8	Hrn2	V			42.1	40.0	-43.7		38.4	54.0	15.6
5479.8	Hrn2	H			42.4	40.0	-43.7		38.7	54.0	15.3
6393.1	Hrn2	V			43.1	42.7	-40.8		45.0	54.0	9.0
6393.1	Hrn2	H			43.3	42.7	-40.8		45.2	54.0	8.8
7306.4	Hrn2	V			41.1	44.5	-42.2		43.4	54.0	10.6
7306.4	Hrn2	H			41.5	44.5	-42.2		43.8	54.0	10.2
8219.7	Hrn2	V			37.9	47.5	-43.9		41.5	54.0	12.5
8219.7	Hrn2	H			38.5	47.5	-43.9		42.1	54.0	11.9
9133.0	Hrn2	V			36.8	50.5	-43.4		43.9	54.0	10.1
9133.0	Hrn2	H			37.2	50.5	-43.4		44.3	54.0	9.7

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: VT1421 900 MHz Cordless Telephone
 FCC ID: AA04301106

Test Data - Radiated Emissions: Handset, Channel 9, LO

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)
915.4	E/D4	V			8.6	35.1			43.7	46.0	2.3
915.4	E/D4	H			10.0	35.1			45.1	46.0	0.9
1830.8	Hrn2	V			48.3	30.2	-44.2		34.3	54.0	19.7
1830.8	Hrn2	H			48.4	30.2	-44.2		34.4	54.0	19.6
2746.2	Hrn2	V			44.6	32.0	-45.1		31.5	54.0	22.5
2746.2	Hrn2	H			48.7	32.0	-45.1		35.6	54.0	18.4
3661.6	Hrn2	V			45.5	35.5	-42.3		38.7	54.0	15.3
3661.6	Hrn2	H			44.8	35.5	-42.3		38.0	54.0	16.0
4577.0	Hrn2	V			44.4	37.6	-43.5		38.5	54.0	15.5
4577.0	Hrn2	H			43.7	37.6	-43.5		37.8	54.0	16.2
5492.4	Hrn2	V			43.1	40.0	-43.7		39.4	54.0	14.6
5492.4	Hrn2	H			42.5	40.0	-43.7		38.8	54.0	15.2
6407.8	Hrn2	V			42.6	42.8	-40.8		44.6	54.0	9.4
6407.8	Hrn2	H			42.5	42.8	-40.8		44.5	54.0	9.5
7323.2	Hrn2	V			41.4	44.6	-42.2		43.8	54.0	10.2
7323.2	Hrn2	H			41.5	44.6	-42.2		43.9	54.0	10.1
8238.6	Hrn2	V			38.4	47.6	-43.9		42.1	54.0	11.9
8238.6	Hrn2	H			38.0	47.6	-43.9		41.7	54.0	12.3
9154.0	Hrn2	V			36.4	50.5	-43.4		43.5	54.0	10.5
9154.0	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: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Test Data - Radiated Emissions: 18.25 XTAL

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP		RBW: 120 kHz		Detector: CISPR, Q-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)
36.5	B/C1	V			11.8	13.5			25.3	40.0	14.7
36.5	B/C1	H			8.2	13.5			21.7	40.0	18.3
54.5	B/C1	V			13.4	10.7			24.1	40.0	15.9
54.5	B/C1	H			9.2	10.7			19.9	40.0	20.1
73.0	B/C1	V			12.0	9.7			21.7	40.0	18.3
73.0	B/C1	H			8.6	9.7			18.3	40.0	21.7
91.25	B/C1	V			11.8	10.4			22.2	43.5	21.3
91.25	B/C1	H			12.2	10.4			22.6	43.5	20.9
109.5	B/C1	V			14.7	12.7			27.4	43.5	16.1
109.5	B/C1	H			11.4	12.7			24.1	43.5	19.4
127.75	B/C1	V			11.7	14.2			25.9	43.5	17.6
127.75	B/C1	H			8.8	14.2			23.0	43.5	20.5
146.0	B/C1	V			10.0	14.8			24.8	43.5	18.7
146.0	B/C1	H			8.6	14.8			23.4	43.5	20.1
164.2	B/C1	V			9.4	15.0			24.4	43.5	19.1
164.2	B/C1	H			7.5	15.0			22.5	43.5	21.0
182.5	B/C1	V			8.0	15.1			23.1	43.5	20.4
182.5	B/C1	H			6.7	15.1			21.8	43.5	21.7

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: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Radiated Photographs (Worst Case Configuration) Base

FRONT VIEW

REAR VIEW

KTL Ottawa

FCC PART 15, SUBPART B
RADIO RECEIVERS
PROJECT NO.: 8R01229

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Radiated Photographs (Worst Case Configuration) Handset

FRONT VIEW

REAR VIEW

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Radiated Photographs (Worst Case Configuration) XTAL Setup

FRONT VIEW

REAR VIEW

EQUIPMENT: VT1421 900 MHz Cordless Telephone
 FCC ID: AA04301106

Section 5(B). Radiated Emissions

NAME OF TEST: Radiated Emissions	PARA. NO.: 15.109(b)
TESTED BY:	DATE:

Minimum Standard: Equipment manufactured or imported after June 23, 1999 is permitted the following limit:

Frequency (MHz)	Field Strength (dB μ V/m @ 3m)
30-88	320 (50.1 dB μ V/m)
70-130	500 (54.0 dB μ V/m)
130-174	500 - 1500 dB μ V/m
174-260	1500 (63.5 dB μ V/m)
260-470	1500 - 5000 (linear interpolation)
Above 470	5000 (74.0 dB μ V/m)

NOT APPLICABLE

Test Results: Complies / Does Not Comply. The worst-case emission level is _____ dB μ V/m @ 3m at _____ MHz. This is _____ dB above/below the specification limit.

Measurement Data: See attached table.

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Radiated Photographs (Worst Case Configuration)

FRONT VIEW

NOT APPLICABLE

REAR VIEW

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Section 6. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.107
TESTED BY: Kevin Carr	DATE: February 1, 1999

Minimum Standard: The RF energy feed back into the power lines shall not exceed 48 dB μ V on any frequency between 0.45 MHz and 30 MHz inclusive.

Test Results: Complies. See attached graphs.

Measurement Data: See attached graphs.

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Powerline Conducted Photographs (Worst Case Configuration)

FRONT VIEW

REAR VIEW

KTL Ottawa

FCC PART 15, SUBPART B
RADIO RECEIVERS
PROJECT NO.: 8R01229

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

INSERT GRAPHS

KTL Ottawa

FCC PART 15, SUBPART B
RADIO RECEIVERS
PROJECT NO.: 8R01229

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Section 7. Sample Calculations

Conducted Emissions:

If the Quasi-Peak to Average ratio is greater than 6 dB, then the emission is classified as broadband and its Quasi-Peak level is reduced by 13 dB for comparison to the limit.

- i.e. Quasi-Peak level = 40 dB μ V
 Average level = 34 dB μ V
 Corrected level = 40 - 13 = 27 dB μ V

Radiated Emissions

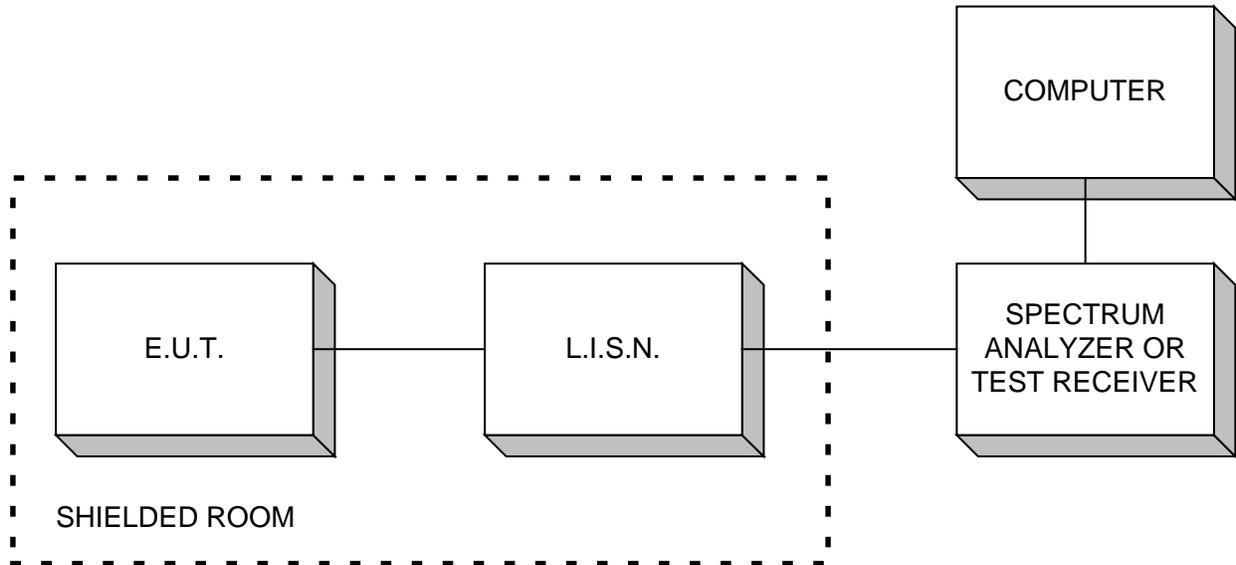
Emissions are measured at a distance of 3 meters and corrected for antenna factor and cable loss.

- i.e. Received Signal = 25 dB μ V @ 100 MHz
 Antenna Factor & Cable Loss = 9.8 dB
 Field Intensity = 25 + 9.8 = 34.8 dB μ V/m @ 3 m

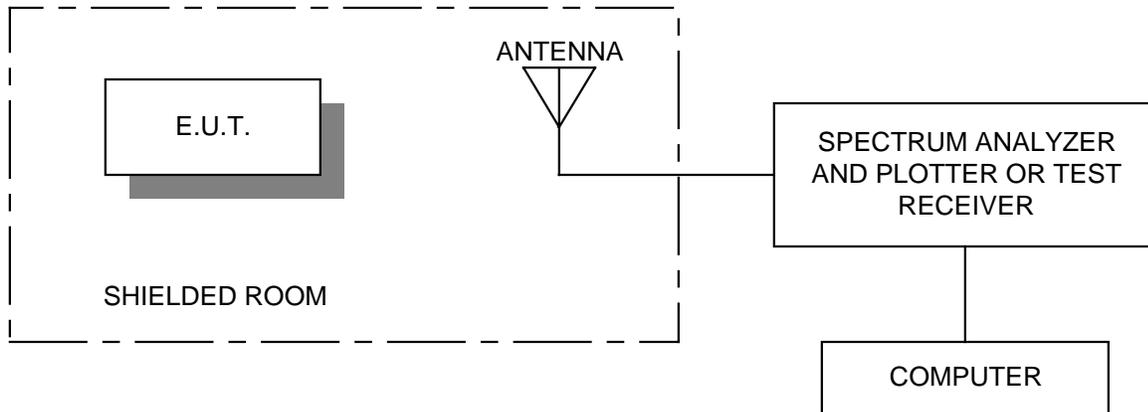
EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Section 8. Block Diagrams

Conducted Emissions

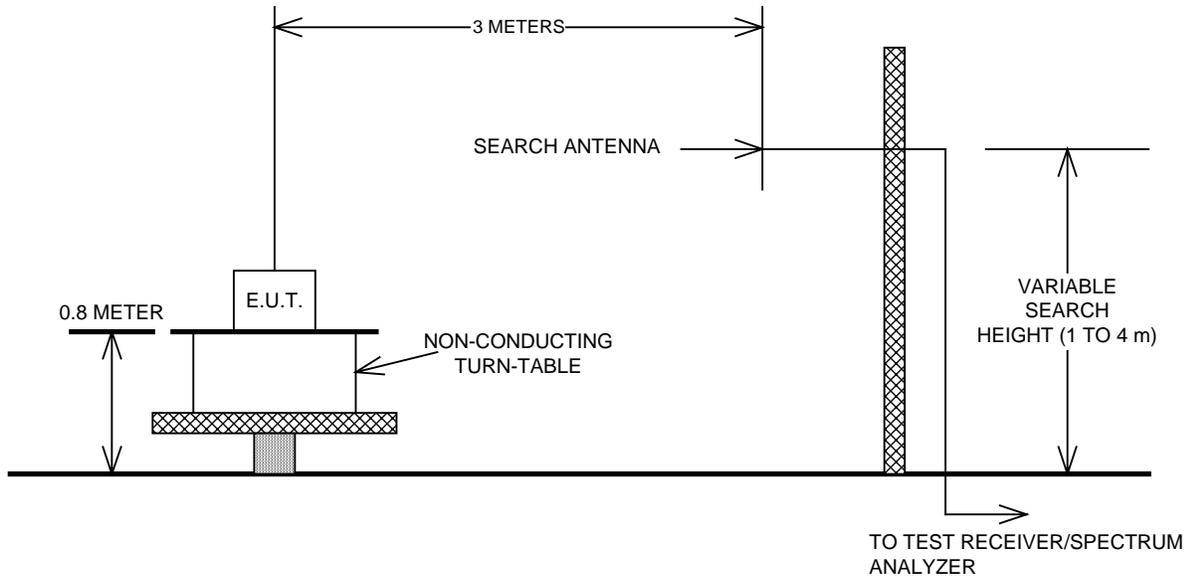


Radiated Prescan



EQUIPMENT: VT1421 900 MHz Cordless Telephone
FCC ID: AA04301106

Outdoor Test Site For Radiated Emissions



The spectrum was searched up to the 10th harmonic of the fundamental frequency of operation.

EQUIPMENT: VT1421 900 MHz Cordless Telephone
 FCC ID: AA04301106

Section 9. Test Equipment List

Equipment List - Conducted Emissions - Shielded Room #1

CAL Cycle	Equipment	Manufacturer	Model #	Serial/Asset #	Last Cal.	Next Cal.
1 Year	LISN	Rohde & Schwarz	ESH2-Z5	890485/017	July 23/98	July 23/99
1 Year	Spectrum analyzer	Hewlett-Packard	8566B	2311A02238	Oct. 22/98	Oct. 22/99
1 Year	Spectrum analyzer display	Hewlett-Packard	8566B	2314A04759	Oct. 22/98	Oct. 22/99
1 Year	Quasi-peak adapter	Hewlett-Packard	85650A	2043A00302	Oct. 22/98	Oct. 22/99
	Plotter	Hewlett-Packard	7550A	28484 15123	N/A	N/A
1 Year	Transient Limiter	Hewlett-Packard	1194 7A	3107A01766	July 21/98	July 21/99

Equipment List - Radiated Emissions

CAL Cycle	Equipment	Manufacturer	Model #	Serial/Asset #	Last Cal.	Next Cal.
	Biconilog Antenna	EMCO	3143	9404-1039	NCR	NCR
1 Year	Dipole Antenna Set	EMCO	3121C	1029	Nov. 18/98	Nov. 18/99
1 Year	Receiver	Rohde & Schwarz	ESVP	892661/014	Mar. 31/98	Mar. 31/99
1 Year	Spectrum Analyzer	Hewlett-Packard	8566B	2311A02238	Oct. 22/98	Oct. 22/99
1 Year	Spectrum Analyzer Display	Hewlett-Packard	8566B	2314A04759	Oct. 22/98	Oct. 22/99
1 Year	Quasi-Peak Adapter	Hewlett Packard	85650A	2043A00302	Oct. 22/98	Oct. 22/99
	Plotter	Hewlett-Packard	7550A	28484 15123	N/A	N/A
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	July 27/98	July 27/99
2 Year	Horn Antenna	EMCO	3115	3132	Feb. 9/98	Feb.9/00
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 Applicable
 NCR = No Cal Required