

EXHIBIT B

Measurement Report

MEASUREMENT REPORT of CORDLESS TELEPHONE

Applicant : RADIO SHACK, A DIVISION OF TANDY CORP.
Model : 43-732
EUT : 900 MHz Analog Cordless Phone with DTAD
FCC ID : AAO4300732
Report No. : D0415563

Test by :

Training Research Co., Ltd.

TEL : 886-2-27881332 FAX : 886-2-27857408
No. 5-3, Lane 21, Yen Chiu Yuan Rd., Sec. 4, Taipei, 11521 Taiwan R.O.C.

CERTIFICATION

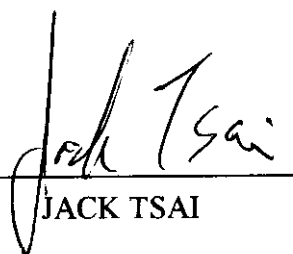
We here by verify that:

The test data, data evaluation, test procedures and equipment configurations shown in this report were made mainly in accordance with the procedures given in ANSI C63.4 (1992) as a reference. All test were conducted by **Training Research Co., Ltd.**, No. 5-3, Lane 21, Yen-Chiu-Yuan Rd., Sec. 4, Taipei, 11521 Taiwan, R.O.C. Also, we attest to the accuracy of each.

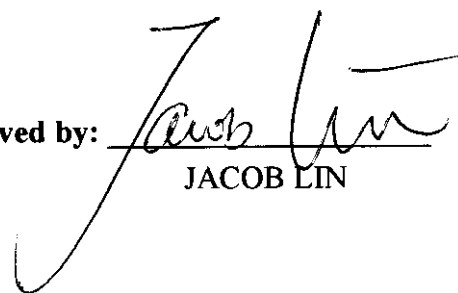
We further submit that the energy emitted by the sample EUT tested as described in the report is **in compliance with** the technical requirements set forth in the FCC Rules Part 15 Subpart C Section 15.249.

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Test Date : Oct. 31, 1998

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I. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of Applicant in support of a Cordless Telephone certification in accordance with Part 2 Subpart J and Part 15 Subpart A and C of the Commission's Rules and Regulations.

1.2 Description of EUT

EUT	:	900MHz Analog Cordless Phone with DTAD
Model	:	43-732
FCC ID	:	AAO4300732
Frequency Range	:	Base: 902.302 – 906.101 MHz Handset: 923.901 – 927.701 MHz
Support Channel	:	20 Channel
Power Type	:	Base Powered by 120 Vac 60 Hz / 9 Vdc 500 mA Handset powered by 3.6 V / 610 mAh.
Power Cord	:	Nonshielded
Data Cable	:	RJ-11C x 1 => Nonshielded, 7' long, Plastic hoods, No bead Headset & Mic. => Nonshielded, 217cm long, Plastic hoods, No bead
Applicant	:	RADIO SHACK, A DIVISION OF TANDY CORP. 100 THROCKMORTON ST., SUITE 1300, FORT WORTH TEXAS 76102, U.S.A.

1.3 Description of Support Equipment

In order to construct the minimum testing, following equipment were used as the support units.

PABX	:	King Design
Model No.	:	KD8705-A
Serial No.	:	GV101101186
Power type	:	110 VAC 50/60Hz
Power cord	:	Non - Shielded

1.4 Configuration of System Under Test

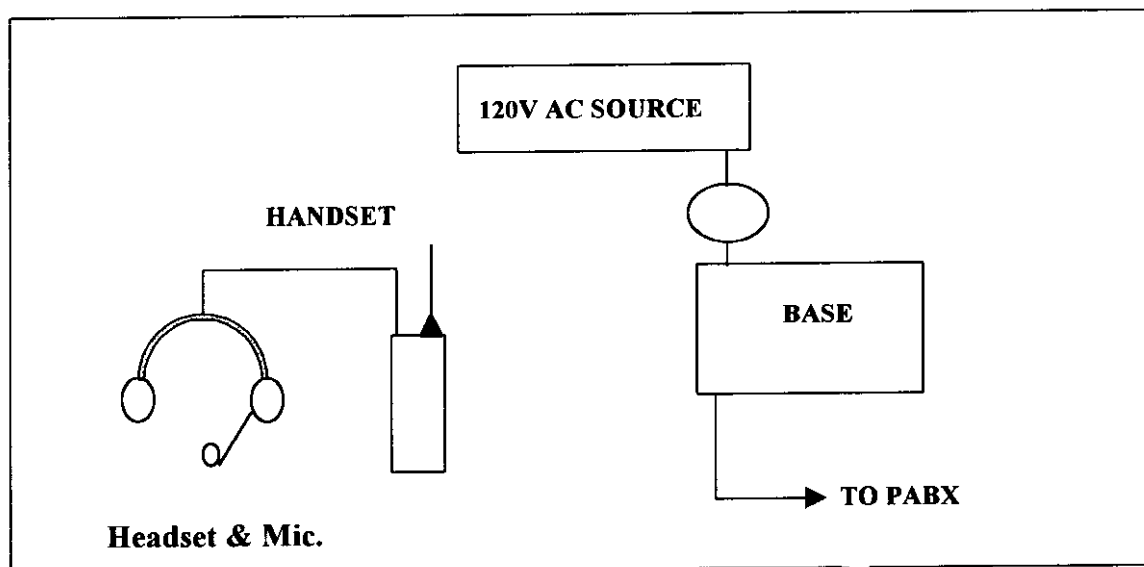


Fig. 1 Configuration of system under test

During testing the EUT was connected to PABX. A diagram of the complete test configuration was shown in Fig 1.

1.5 Test Procedure

All measurements contained in this report were performed mainly according to the techniques described in Measurement procedure ANSI C63.4 (1992).

1.6 Location of the Test Site

The radiated emissions measurements required by the rules were performed on the three-meter, open-field test site maintained by Training Research Co., Ltd. No. 5-3, Lane 21, Yen-Chiu-Yuan Rd., Sec. 4, Taipei, Taiwan, R.O.C. Complete description and measurement data have been placed on file with the commission. The conducted power line emissions tests and other test items were performed in a shielded enclosure also located at Training Research Co., Ltd. 1F, No. 569, Chung Hsiao E. Sec. 7, Taipei, Taiwan, R.O.C. Training Research Co., Ltd. is listed by the FCC as a facility available to do measurement work for others on a contract basis.

1.7 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests was chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated.

In test, the base and handset are tested separately. They were set in Ch01, Ch20 of EUT and continuously transmitting mode that controlled by test mode of EUT.

II. Conducted Emissions Measurements

2.1 Test Condition & Setup

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the backwall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3825/2 Line Impedance Stabilization Networks (LISNs). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPER quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 450 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.4.

There are tree test condition apply in this test item, the test procedure description as the following:

2.2 List of Test Instruments

Manufacturer	Device	Model	Input impedance
Hewlett Packard	100Hz-1.5GHz Spectrum Analyzer	HP8591EM	50.00
EMCO	Line Impedance Stabilization Network	3825/2	50.00
TRC	Shielded Room	TRC-SR1	N/A

2.4 Test Result of Conducted Emissions

The following table shows a summary of the highest emissions of power line conducted emissions on the HOT and NATURAL conductors of the EUT power cord.

Model No. : 43-732

EUT : 900MHz Analog Cordless Phone with DTAD

Table 1 Power Line Conducted Emissions (Charge Mode)

Power	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	467.00	38.91	48.00	-9.09
	493.00	36.88	48.00	-11.12
	502.00	35.90	48.00	-12.10
	680.00	33.33	48.00	-14.67
	701.00	34.28	48.00	-13.72
	724.00	33.41	48.00	-14.59
	744.00	33.48	48.00	-14.52
	769.00	32.99	48.00	-15.01
	12010.00	41.19	48.00	-6.81
	15930.00	35.55	48.00	-12.45
LINE 2	455.00	33.63	48.00	-14.37
	499.00	27.60	48.00	-20.40
	564.00	28.38	48.00	-19.62
	597.00	27.57	48.00	-20.43
	954.00	27.36	48.00	-20.64
	7990.00	28.35	48.00	-19.65
	12010.00	42.44	48.00	-5.56
	15930.00	35.29	48.00	-12.71
	24120.00	28.90	48.00	-19.10
	28160.00	28.68	48.00	-19.32

NOTE:

1. Margin = Peak Amplitude - Limit
2. A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit.

Table 2 Power Line Conducted Emissions (Play Mode)

Power	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	452.00	39.80	48.00	-8.20
	470.00	38.89	48.00	-9.11
	486.00	37.78	48.00	-10.22
	505.00	34.57	48.00	-13.43
	515.00	33.94	48.00	-14.06
	633.00	33.30	48.00	-14.70
	671.00	33.52	48.00	-14.48
	719.00	33.25	48.00	-14.75
	739.00	33.71	48.00	-14.29
	15930.00	37.43	48.00	-10.57
LINE 2	455.00	33.92	48.00	-14.08
	467.00	33.92	48.00	-14.08
	496.00	30.42	48.00	-17.58
	508.00	27.74	48.00	-20.26
	568.00	29.47	48.00	-18.53
	590.00	27.98	48.00	-20.02
	612.00	27.78	48.00	-20.22
	624.00	27.32	48.00	-20.68
	898.00	27.63	48.00	-20.37
	15930.00	37.38	48.00	-10.62

NOTE:

1. Margin = Peak Amplitude - Limit
2. A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit.

Table 3 Power Line Conducted Emissions (Channel 01)

Power	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	470.00	38.49	48.00	-9.51
	496.00	36.00	48.00	-12.00
	518.00	32.40	48.00	-15.60
	620.00	32.51	48.00	-15.49
	654.00	32.93	48.00	-15.07
	667.00	32.97	48.00	-15.03
	714.00	34.21	48.00	-13.79
	759.00	32.24	48.00	-15.76
	783.00	33.09	48.00	-14.91
	15930.00	36.99	48.00	-11.01
LINE 2	457.00	33.02	48.00	-14.98
	483.00	30.53	48.00	-17.47
	568.00	28.74	48.00	-19.26
	604.00	28.40	48.00	-19.60
	624.00	26.35	48.00	-21.65
	880.00	26.87	48.00	-21.13
	954.00	26.56	48.00	-21.44
	7990.00	29.11	48.00	-18.89
	12010.00	30.25	48.00	-17.75
	15930.00	38.74	48.00	-9.26

NOTE:

1. Margin = Peak Amplitude - Limit
2. A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit.

Table 4 Power Line Conducted Emissions (Channel 20)

Power	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	457.00	39.89	48.00	-8.11
	477.00	38.40	48.00	-9.60
	499.00	36.04	48.00	-11.96
	633.00	33.85	48.00	-14.15
	688.00	33.45	48.00	-14.55
	719.00	33.44	48.00	-14.56
	754.00	33.64	48.00	-14.36
	798.00	33.20	48.00	-14.80
	833.00	33.27	48.00	-14.73
	15930.00	38.63	48.00	-9.37
LINE 2	455.00	33.30	48.00	-14.70
	473.00	32.40	48.00	-15.60
	486.00	28.24	48.00	-19.76
	560.00	27.48	48.00	-20.52
	593.00	27.64	48.00	-20.36
	880.00	27.83	48.00	-20.17
	904.00	27.73	48.00	-20.27
	7990.00	28.66	48.00	-19.34
	12010.00	29.83	48.00	-18.17
	15930.00	38.13	48.00	-9.87

NOTE:

1. Margin = Peak Amplitude - Limit
2. A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit.

III. Radiated Emissions Measurements

3.1 Test Condition & Setup

Prior to open-field testing, the EUT was placed in a shielded enclosure and scanned at a close distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the open-field tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, open-field test site. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter.

The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 8594EM Spectrum Analyzer, EMCO whole range Antenna is used to measure frequency from 30 MHz to 1GHz. The final test is used the spectrum HP 8594EM and spectrum was examined from 1 GHz to 18GHz using an Hewlett Packard 8592A Spectrum Analyzer, EMCO Horn Antenna (Model 3115) for 1 G - 18 GMHz.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarizations.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. There are two spectrum analyzers use on this testing , HP8568b for frequency 30MHz to 1000MHz, and HP8592A for frequency 1 GHz to 18 GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6 dB bandwidth was set to 120 KHz (spectrum was examined from 30 MHz to 1000 MHz), the spectrum analyzer's 6 dB bandwidth was set to 1 MHz (spectrum was examined from 1 GHz to 18GHz) and the analyzer was operated in the maximum hold mode.

The actual field intensity in decibels referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) at the appropriate frequency.

For frequency between 30MHz to 1000MHz
$$F_{Ia} \text{ (dBuV/m)} = F_{Ir} \text{ (dBuV)} + \text{Correction Factors}$$

F_{Ia} : Actual Field Intensity

F_{Ir} : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss

For frequency between 1 GHz to 18 GMHz
$$F_{Ia} \text{ (dBuV/m)} = F_{Ir} \text{ (dBuV)} + \text{Correction Factor}$$

F_{Ia} : Actual Field Intensity

F_{Ir} : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss – Distance Factor (9.54dB)- Amplifier Gain

3.2 List of Test Instruments

Manufacturer	Device	Model	Input Impedance
Hewlett Packard	.100Hz – 1.5GHz Spectrum Analyzer	HP8568B	50.00
Hewlett Packard	.10KHz – 1GHz Quasi-peak Adapter	HP85650A	50.00
Hewlett Packard	.20Hz – 2GHz RF Preselector	HP85685A	50.00
Hewlett Packard	.50KHz – 22GHz Spectrum Analyzer	HP8592A	50.00
Hewlett Packard	.9KHz – 2.9GHz Spectrum Analyzer	HP8594EM	50.00

3.4 Test Result of Radiated Emissions

The peak values of fundamental emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Model No. : 43-732
EUT : 900MHz Analog Cordless Phone with DTAD

Table5 Open Field Fundamental Emissions

Channel	Frequency (MHz)	A.P. (H/V)	A.H. (CM)	Table (degree)	Amplitude (Peak) (dBuV/m)	Limit (dBuV)	Margin (dBuV)
Base 01	902.308	H	100.00	221.00	59.40	94.00	-34.60
		V	100.00	30.00	61.50	94.00	-32.50
Base 20	906.108	H	100.00	120.00	59.77	94.00	-34.23
		V	100.00	219.00	61.17	94.00	-32.83
Handset 01	923.908	H	100.00	15.00	67.74	94.00	-26.26
		V	100.00	302.00	68.66	94.00	-25.34
Handset 20	927.708	H	100.00	198.00	66.05	94.00	-27.95
		V	100.00	237.00	67.58	94.00	-26.42

Note:

1. A. P. means antenna polarization, horizontal and vertical.
2. A. H. means antenna height.
3. Table means turntable turning position.
4. Amplitude means the fundamental emission measured.
5. Margin = Amplitude-limit

3.5 Test Result of Spurious Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarizations, EUT orientation, etc. are recorded on the following.

Model No. : 43-732
EUT : 900MHz Analog Cordless Phone with DTAD

Table 6. Open Field Radiated Emissions for 30MHz ~ 1GHz [Charge Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
35.950	42.35	1.00	12	-18.26	24.09	40.00	-15.91
82.950	40.87	3.02	298	-13.18	27.69	40.00	-12.31
147.460	55.24	1.00	226	-23.85	31.39	43.50	-12.11
184.330	50.46	1.00	63	-21.58	28.88	43.50	-14.62
258.060	49.02	1.00	301	-18.39	30.63	46.00	-15.37
276.490	47.95	1.00	251	-17.54	30.41	46.00	-15.59
294.920	55.86	1.00	81	-16.12	39.74	46.00	-6.26
442.400	36.54	1.00	193	-8.08	28.46	46.00	-17.54

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 7. Open Field Radiated Emissions for 30MHz ~ 1GHz [Charge Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
35.950	49.80	1.00	14	-18.26	31.54	40.00	-8.46
82.950	44.23	3.01	284	-13.18	31.05	40.00	-8.95
147.460	58.93	1.00	245	-23.85	35.08	43.50	-8.42
184.330	53.83	1.00	35	-21.58	32.25	43.50	-11.25
258.060	44.19	1.00	281	-18.39	25.80	46.00	-20.20
276.490	44.80	1.00	288	-17.54	27.26	46.00	-18.74
294.920	51.34	1.00	61	-16.12	35.22	46.00	-10.78
442.400	42.56	1.00	321	-8.08	34.48	46.00	-11.52

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 8. Open Field Radiated Emissions for 30MHz ~ 1GHz [Play Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
35.960	42.90	3.01	158	-18.26	24.64	40.00	-15.36
147.450	54.97	1.00	306	-23.85	31.12	43.50	-12.38
184.340	50.39	1.00	56	-21.58	28.81	43.50	-14.69
294.930	54.63	1.00	251	-16.12	38.51	46.00	-7.49

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 9. Open Field Radiated Emissions for 30MHz ~ 1GHz [Play Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
35.960	49.11	1.00	318	-18.26	30.85	40.00	-9.15
147.450	58.50	3.01	118	-23.85	34.65	43.50	-8.85
184.340	53.81	1.00	283	-21.58	32.23	43.50	-11.27
294.930	50.96	3.01	0	-16.12	34.84	46.00	-11.16

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 10. Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Base Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
36.000	36.46	3.01	261	-18.28	18.18	40.00	-21.82
40.000	40.76	3.01	238	-20.25	20.51	40.00	-19.49
47.997	56.35	1.00	143	-22.72	33.63	40.00	-6.37
147.460	52.23	1.00	86	-23.85	28.38	43.50	-15.12
184.330	52.50	1.00	59	-21.58	30.92	43.50	-12.58
258.060	49.55	1.00	24	-18.39	31.16	46.00	-14.84
294.930	54.96	1.00	82	-16.12	38.84	46.00	-7.16
451.150	36.13	1.00	3	-10.18	25.95	46.00	-20.05

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 11. Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Base Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.858	59.14	100.00	16	-8.67	-9.54	40.93	54	-13.07
2.334	58.64	100.00	285	-8.67	-9.54	40.43	54	-13.57
2.789	63.97	100.00	149	-6.84	-9.54	47.59	54	-6.41
5.140	37.75	100.00	291	9.72	-9.54	37.93	54	-16.07

Note:

1. Margin = Corrected - Limit.
2. Peak amplitude + Correction Factor + Distance = Corrected

Table 12. Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Base Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
36.000	45.70	1.00	235	-18.28	27.42	40.00	-12.58
40.000	54.19	1.00	77	-20.25	33.94	40.00	-6.06
47.997	53.26	1.00	320	-22.72	30.54	40.00	-9.46
147.460	62.77	3.01	65	-23.85	38.92	43.50	-4.58
184.330	56.53	1.00	293	-21.58	34.95	43.50	-8.55
258.060	43.88	1.00	42	-18.39	25.49	46.00	-20.51
294.930	48.22	1.00	226	-16.12	32.10	46.00	-13.90
451.150	39.92	1.00	36	-10.18	29.74	46.00	-16.26

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 13. Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Base Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.858	60.64	100.00	231	-8.67	-9.54	42.43	54	-11.57
2.334	57.30	100.00	149	-8.67	-9.54	39.09	54	-14.91
2.789	66.97	100.00	82	-6.84	-9.54	50.59	54	-3.41
5.140	38.41	100.00	55	9.72	-9.54	38.59	54	-15.41

Note:

1. Margin = Corrected - Limit.
2. Peak amplitude + Correction Factor + Distance = Corrected

Table 14. Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Base Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
36.000	35.71	3.02	263	-18.28	17.43	40.00	-22.57
40.000	41.33	3.02	249	-20.25	21.08	40.00	-18.92
51.620	46.92	3.02	86	-23.09	23.83	40.00	-16.17
184.330	52.38	1.00	263	-21.58	30.80	43.50	-12.70
258.060	49.65	1.00	301	-18.39	31.26	46.00	-14.74
294.930	55.09	1.00	241	-16.12	38.97	46.00	-7.03
442.380	37.53	1.00	139	-8.08	29.45	46.00	-16.55
453.460	43.47	3.02	187	-10.32	33.15	46.00	-12.85

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 15. Open Field Radiated Emissions For 1GHz ~ 18GHz [Channel 20, Base Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.868	59.47	100.00	215	-8.67	-9.54	41.26	54	-12.74
2.811	65.47	100.00	41	-6.84	-9.54	49.09	54	-4.91
4.230	43.06	100.00	165	3.91	-9.54	37.43	54	-16.57
5.162	39.41	100.00	238	9.72	-9.54	39.59	54	-14.41

Note:

1. Margin = Corrected - Limit.
2. Peak amplitude + Correction Factor + Distance = Corrected

Table 16. Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Base Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
36.000	45.31	1.00	244	-18.28	27.03	40.00	-12.97
40.000	54.26	1.00	79	-20.25	34.01	40.00	-5.99
51.620	51.60	1.00	184	-23.09	28.51	40.00	-11.49
184.330	56.23	1.00	36	-21.58	34.65	43.50	-8.85
258.060	44.00	1.00	98	-18.39	25.61	46.00	-20.39
294.930	48.39	1.00	98	-16.12	32.27	46.00	-13.73
442.380	41.87	1.00	314	-8.08	33.79	46.00	-12.21
453.460	49.80	3.01	170	-10.32	39.48	46.00	-6.52

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 17. Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 20, Base Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.868	62.64	100.00	30	-8.67	-9.54	44.43	54	-9.57
2.811	66.97	100.00	244	-6.84	-9.54	50.59	54	-3.41
4.230	39.72	100.00	139	3.91	-9.54	34.09	54	-19.91
5.162	38.41	100.00	128	9.72	-9.54	38.59	54	-15.41

Note:

1. Margin = Corrected - Limit.
2. Peak amplitude + Correction Factor + Distance = Corrected

Table 18. Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Handset Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
445.803	35.83	1.00	62	-8.99	26.84	46.00	-19.16
461.950	40.12	1.00	115	-10.75	29.37	46.00	-16.63

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 19. Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Handset Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.800	47.00	100.00	33	-8.67	-9.54	28.79	54	-25.21
3.100	52.14	100.00	154	-5.64	-9.54	36.96	54	-17.04

Note:

1. Margin = Corrected - Limit.
2. Peak amplitude + Correction Factor + Distance = Corrected

Table 20. Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
445.803	45.50	1.10	315	-8.99	36.51	46.00	-9.49
461.950	41.45	1.10	284	-10.75	30.70	46.00	-15.30

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 21. Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.800	55.34	100.00	352	-8.67	-9.54	37.13	54	-16.87
3.100	49.64	100.00	14	-5.64	-9.54	34.46	54	-19.54

Note:

1. Margin = Corrected - Limit.
2. Peak amplitude + Correction Factor + Distance = Corrected

Table 22. Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Handset Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)			Limit (dBuV/m)	Margin (dB)
171.824	49.90	3.01	158	-22.11	27.79	43.50	-15.71
380.267	37.97	1.00	306	-13.44	24.53	46.00	-21.47
447.705	34.39	1.00	56	-9.50	24.89	46.00	-21.11
463.856	39.63	1.00	251	-10.78	28.85	46.00	-17.15

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 23. Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 20, Handset Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.830	49.84	100.00	52	-8.67	-9.54	31.63	54	-22.37
2.770	51.34	100.00	18	-6.84	-9.54	34.96	54	-19.04
3.700	51.47	100.00	188	-5.64	-9.54	36.29	54	-17.71

Note:

1. Margin = Corrected - Limit.
2. Peak amplitude + Correction Factor + Distance = Corrected

Table 24. Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Handset Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table ()	(dB)		Limit (dBuV/m)	Margin (dB)
171.824	39.47	1.00	318	-22.11	17.36	43.50	-26.14
380.267	44.63	3.02	10	-13.44	31.19	46.00	-14.81
447.705	44.53	1.00	291	-9.50	35.03	46.00	-10.97
463.856	40.41	1.00	283	-10.78	29.63	46.00	-16.37

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 25. Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 20, Handset Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.830	54.34	100.00	295	-8.67	-9.54	36.13	54	-17.87
2.770	51.17	100.00	157	-6.84	-9.54	34.79	54	-19.21
3.700	57.47	100.00	22	-5.64	-9.54	42.29	54	-11.71

Note:

1. Margin = Corrected - Limit.
2. Peak amplitude + Correction Factor + Distance = Corrected

V. Verify Frequencies and Channels

Table 26. Verify the Frequency Pairs

Channel	Handset (MHz)	Base (MHz)	Channel	Handset (MHz)	Base (MHz)
1	923.901	902.302	14	926.502	904.900
2	924.101	902.501	15	926.701	905.101
3	924.301	902.701	16	926.901	905.302
4	924.501	902.900	17	927.101	905.500
5	924.701	903.100	18	927.302	905.702
6	924.901	903.301	19	927.501	905.901
7	925.101	903.501	20	927.701	906.101
8	925.302	903.701			
9	925.501	903.901			
10	925.701	904.100			
11	925.901	904.301			
12	926.102	904.501			
13	926.301	904.701			

Note:

1. This is for sure that all frequencies are in 902 MHz to 928 MHz.

Section 15.214(d) The security code is set automatic :

Every time when you place the handset in the base, your cordless will randomly select one of 65,530 possible security codes.

Appendix A

The antenna of the device is screwed inside the device, the user can not remove it freely without any tools from outside the device. This is comply with the FCC rules part 15.203

0:01:04 NOV 06, 1998

EF -20.0 dBm ATTEN 10 dB

AK
OG
3/
3/

CNTR 902.3023 MHz
-26.38 dBm

MARKER
→ CF

MARKER
DELTA

NEXT
PEAK

NEXT PK
RIGHT

NEXT PK
LEFT

PEAK
EXCURSN

COUNTER
902.3023 MHz
-26.52 dBm

A SB
C FC
CORR

ENTER 902.000 MHz
#RES BW 30 kHz

VBW 30 kHz

SPAN 1.000 MHz
SWP 75 msec

10:01:32 NOV 06, 1998

EF -20.0 dBm ATTEN 10 dB

EAK
OG
0
B/

CNTR 902.0621 MHz
-86.67 dBm

MARKER
→ CF

MARKER
DELTA

NEXT
PEAK

NEXT PK
RIGHT

NEXT PK
LEFT

PEAK
EXCURSN

COUNTER
902.0621 MHz
-86.67 dBm

A SB
C FC
CORR

ENTER 902.000 MHz
#RES BW 30 kHz

VBW 30 kHz

SPAN 1.000 MHz
SWP 75 msec

Appendix A-1
Check Frequency on 902-928MHz

0:04:00 NOV 06, 1998

CNTR 927.7019 MHz
-27.42 dBm

F -20.0 dBm ATTEN 10 dB

AK
G

1 SB
FC
CORR

MARKER
→ CF

MARKER
DELTA

NEXT
PEAK

NEXT PK
RIGHT

NEXT PK
LEFT

PEAK
EXCURSN

CENTER
928.000 MHz

ENTER 928.000 MHz
#RES BW 30 kHz

VBW 30 kHz

SPAN 1.000 MHz
SWP 75 msec

10:04:46 NOV 06, 1998

CNTR 928.0196 MHz
-85.28 dBm

EF -20.0 dBm ATTEN 10 dB

EAK
OG
0
B/

A SB
C FC
CORR

MARKER
NORMAL

MARKER
DELTA

MKR CNT
ON OFF

MKNOISE
ON OFF

MARKERS
OFF

MORE
1 of 2

COUNTER
928.0196 MHz
-84.96 dBm

ENTER 928.000 MHz
#RES BW 30 kHz

VBW 30 kHz

SPAN 1.000 MHz
SWP 75 msec

Appendix A-2
Check Frequency on 902-928MHz