

EXHIBIT B

Measurement Report

MEASUREMENT REPORT of CORDLESS TELEPHONE

Applicant : Teledex Corporation
Model No. : TC305A, TC305B, TC305T, TC306A, TC306B, TC306T
EUT : One Line 900 MHz Analog Cordless Phone with CID
FCC ID : DXA-TR1C
Report No. : S2115206

Test by :

Training Research Co., Ltd.

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CERTIFICATION

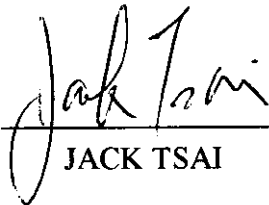
We here by verify that:

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.*, 2, Lane 194, Huan-Ho Street, Hsichi, Taipei Hsien 221, 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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EUT : One Line 900 MHz Analog Cordless Phone with CID
FCC ID : DXA-TR1C
Report No. : S2115206
Test Date : MAY 24, 1999

Prepared by:


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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 : One Line 900 MHz Analog Cordless Phone with CID
Model No. : TC305A, TC305B, TC305T, TC306A, TC306B, TC306T
FCC ID : DXA-TR1C
Frequency Range : Base: 925.08 – 927.36 MHz
 Handset: 902.58 – 904.86 MHz
Support Channel : 20 Channel
Power Type : Base Powered by 120 Vac 60 Hz / 9 Vdc 300 mA
 Handset powered by 3.6 V / 600 mAh.
Power Cord : Non-shielded
Data Cable : RJ-11C x 2 => Non-shielded, 7' long, Plastic hoods, No bead
 Jack of Headset => This port is disable.
Applicant : Teledex Corporation
 3914 Murphy Canyon Rd., Suite A-207,
 San Diego, CA 92123, USA

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

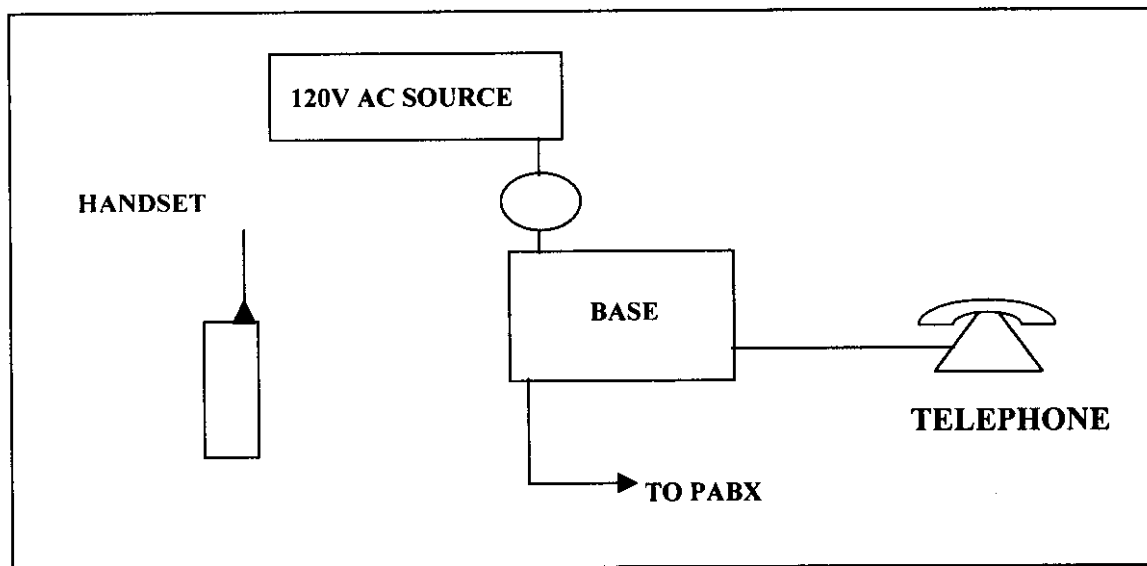


Fig. 1 Configuration of system under test

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, Anechoic Chamber (Registration Number: 93906)** maintained by *Training Research Co., Ltd.* 1F., No. 2, Lane 194, Huan-Ho Street, Hsichih, Taipei Hsien 221, 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. B1, No. 2, Lane 194, Huan-Ho Street, Hsichih, Taipei Hsien 221, 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 three test conditions 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. : TC305A, TC305B, TC305T, TC306A, TC306B, TC306T
EUT : One Line 900 MHz Analog Cordless Phone with CID

Table 1 Power Line Conducted Emissions (Channel 01)

Power	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	457.00	35.24	48.00	-12.76
	470.00	34.73	48.00	-13.27
	486.00	33.78	48.00	-14.22
	524.00	32.72	48.00	-15.28
	534.00	32.67	48.00	-15.33
	553.00	32.07	48.00	-15.93
	571.00	31.03	48.00	-16.97
	593.00	29.99	48.00	-18.01
	604.00	28.79	48.00	-19.21
	628.00	27.43	48.00	-20.57
LINE 2	455.00	37.50	48.00	-10.50
	473.00	36.64	48.00	-11.36
	486.00	35.70	48.00	-12.30
	518.00	34.11	48.00	-13.89
	534.00	34.00	48.00	-14.00
	553.00	33.47	48.00	-14.53
	615.00	30.28	48.00	-17.72
	645.00	29.49	48.00	-18.51
	680.00	28.89	48.00	-19.11
	697.00	27.96	48.00	-20.04

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 (Channel 20)

Power	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	464.00	35.52	48.00	-12.48
	473.00	34.89	48.00	-13.11
	493.00	34.10	48.00	-13.90
	505.00	33.23	48.00	-14.77
	524.00	33.16	48.00	-14.84
	542.00	32.85	48.00	-15.15
	556.00	31.39	48.00	-16.61
	571.00	31.10	48.00	-16.90
	593.00	29.83	48.00	-18.17
	624.00	27.98	48.00	-20.02
LINE 2	461.00	37.71	48.00	-10.29
	489.00	35.12	48.00	-12.88
	499.00	34.96	48.00	-13.04
	538.00	33.90	48.00	-14.10
	571.00	32.20	48.00	-15.80
	593.00	30.84	48.00	-17.16
	620.00	30.07	48.00	-17.93
	645.00	29.11	48.00	-18.89
	667.00	29.45	48.00	-18.55
	688.00	27.51	48.00	-20.49

Table 3 Power Line Conducted Emissions (Charge Mode)

Power	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	461.00	36.86	48.00	-11.14
	473.00	36.13	48.00	-11.87
	483.00	35.49	48.00	-12.51
	502.00	34.40	48.00	-13.60
	524.00	34.49	48.00	-13.51
	560.00	32.71	48.00	-15.29
	579.00	31.45	48.00	-16.55
	620.00	29.64	48.00	-18.36
	641.00	28.13	48.00	-19.87
	667.00	27.54	48.00	-20.46
LINE 2	461.00	36.31	48.00	-11.69
	483.00	33.82	48.00	-14.18
	505.00	30.93	48.00	-17.07
	530.00	29.17	48.00	-18.83
	564.00	27.71	48.00	-20.29
	582.00	27.03	48.00	-20.97
	991.00	28.30	48.00	-19.70
	1077.00	31.04	48.00	-16.96
	1149.00	29.39	48.00	-18.61
	1199.00	27.93	48.00	-20.07

III. Radiated Emissions Measurements

3.1 Test Condition & Setup

The EUT was placed in a anechoic chamber and scanned at 3 meter 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 final 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, anechoic chamber. 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 85460A EMI Receiver, M.E. whole range Bi-Log antenna (Model No.: VULB9160) is used to measure frequency from 30 MHz to 1GHz. The final test is used the spectrum HP 85460A 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 GHz.

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 polarization.

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 , HP 85460A 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

$Fla \text{ (dBuV/m)} = Flr \text{ (dBuV)} + \text{Correction Factors}$

Fla : Actual Field Intensity

Flr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss

For frequency between 1GHz to 18GHz

$Fla \text{ (dBuV/m)} = Flr \text{ (dBuV)} + \text{Correction Factor}$

Fla : Actual Field Intensity

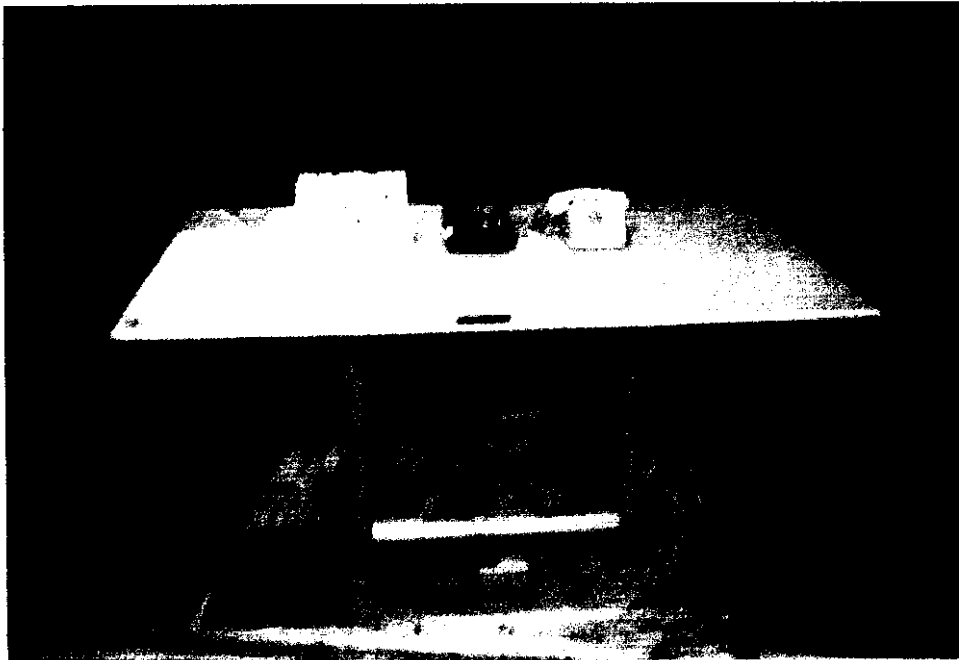
Flr : Reading of the Field Intensity

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	.9KHz – 6GHz EMI Receiver	HP85460A	50.00
M.E.	30MHz-1.5GHz Bi-Log Antenna	VULB 9160	50.00
Hewlett Packard	.50KHz – 22GHz Spectrum Analyzer	HP8592A	50.00

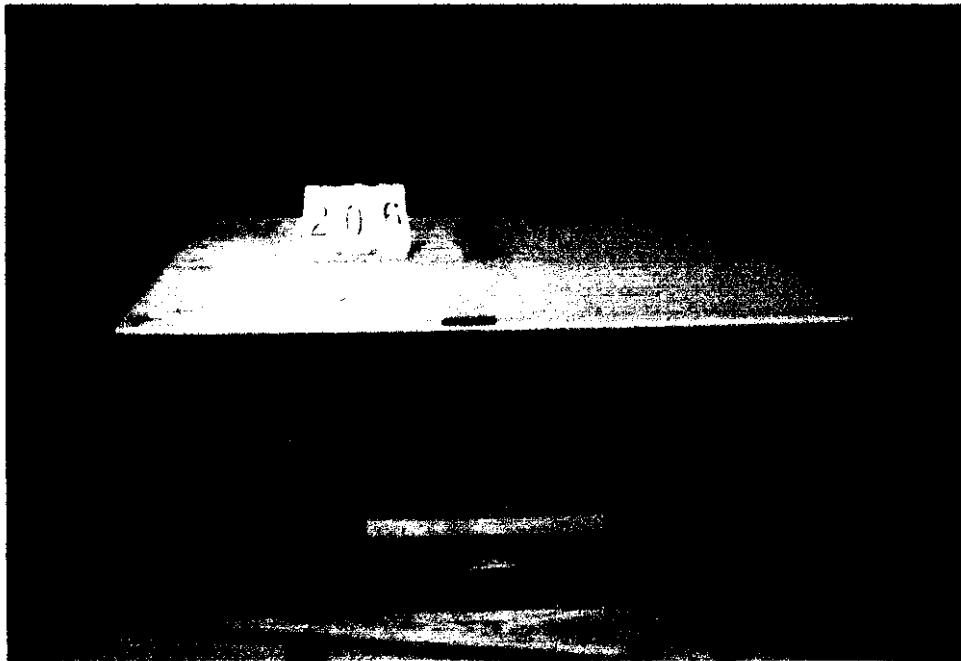
3.3 Test Configuration of Radiated Emission



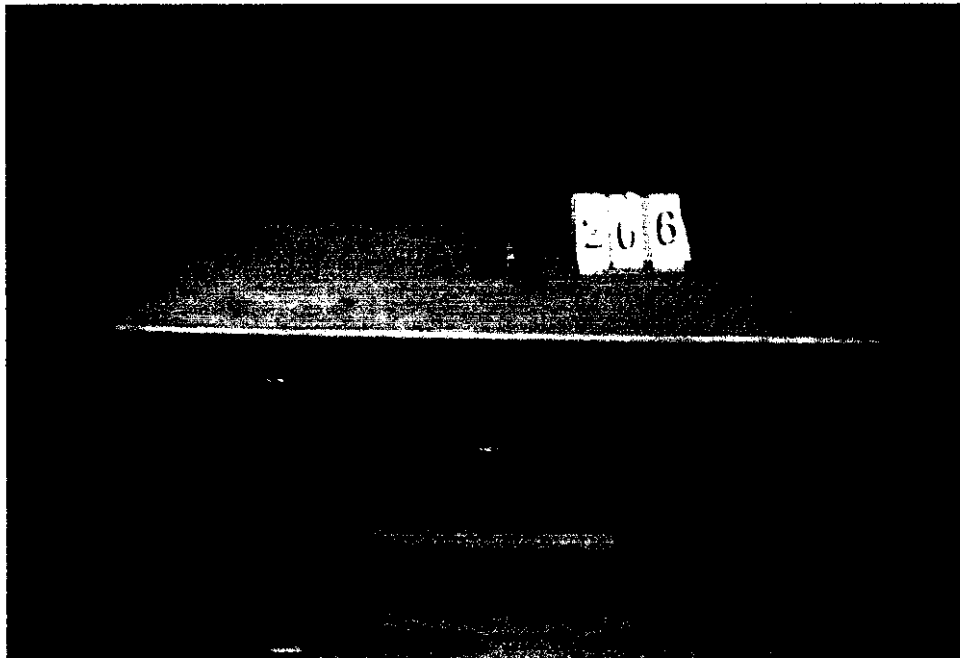
Pic 1 Front View of the Test Configuration (BASE)



Pic 2 Rear View of the Test Configuration (BASE)



Pic 1 Front View of the Test Configuration (HANDSET)



Pic 2 Rear View of the Test Configuration (HANDSET)

The test configuration for frequency between 1 GHz to 18 GHz is same as above.

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. : TC305A, TC305B, TC305T, TC306A, TC306B, TC306T
EUT : One Line 900 MHz Analog Cordless Phone with CID

Table 4 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	925.08	H	100.00	192	78.98	94.00	-15.02
		V	100.00	211	81.25	94.00	-12.75
Base 20	927.36	H	100.00	190	78.82	94.00	-15.18
		V	100.00	28	80.58	94.00	-13.42
Handset 01	902.58	H	100.00	178	73.74	94.00	-20.26
		V	100.00	333	77.78	94.00	-16.22
Handset 20	904.86	H	100.00	285	68.36	94.00	-25.64
		V	100.00	144	72.18	94.00	-21.82

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 polarization, EUT orientation, etc. are recorded on the following.

Model No. : TC305A, TC305B, TC305T, TC306A, TC306B, TC306T
EUT : One Line 900 MHz Analog Cordless Phone with CID

Table 5 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Base 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)
223.235	39.95	2.00	111	-12.19	27.76	46.00	-18.24
231.917	50.93	1.00	125	-12.77	38.16	46.00	-7.84
285.522	40.09	2.00	285	-14.89	25.20	46.00	-20.80
462.835	58.88	2.00	36	-19.95	38.93	46.00	-7.07
694.972	69.59	1.00	226	-24.78	44.81	46.00	-1.19

Note:

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

Table 6 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 (°)				Limit (dBuV/m)	Margin (dB)
1.855	67.58	100.00	196	-8.67	-9.54	49.37	54	-4.63
2.300	53.49	100.00	18	-8.67	-9.54	35.28	54	-18.72
2.520	55.66	100.00	122	-6.84	-9.54	39.23	54	-14.72
2.770	62.33	100.00	100	-6.84	-9.54	45.95	54	-8.05
2.890	56.33	100.00	148	-6.84	-9.54	39.95	54	-14.05
2.990	51.50	100.00	189	-6.84	-9.54	35.12	54	-18.88
3.210	56.83	100.00	214	-5.64	-9.54	40.45	54	-13.55
3.450	50.96	100.00	61	-5.64	-9.54	35.78	54	-18.22
3.670	54.96	100.00	219	-5.64	-9.54	39.78	54	-14.22

Note:

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

Table 7 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Base Vertical]

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)
223.235	41.61	1.00	33	-12.19	29.42	46.00	-16.58
231.540	47.13	1.00	109	-12.75	34.38	46.00	-11.62
462.835	46.00	1.00	308	-4.85	41.15	46.00	-4.85
694.470	64.89	2.00	228	-24.77	40.12	46.00	-5.88
892.460	64.95	1.00	57	-27.71	37.24	46.00	-8.76

Table 8 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 (°)				Limit (dBuV/m)	Margin (dB)
1.002	52.36	100.00	19	-8.67	-9.54	34.15	54	-19.85
1.157	64.16	100.00	19	-8.67	-9.54	45.95	54	-8.05
1.855	65.62	100.00	19	-8.67	-9.54	47.41	54	-6.59
2.300	55.33	100.00	181	-8.67	-9.54	37.12	54	-16.88
2.520	55.83	100.00	125	-6.84	-9.54	39.45	54	-14.55
2.770	60.00	100.00	108	-6.84	-9.54	43.62	54	-10.38
2.990	51.50	100.00	196	-6.84	-9.54	35.12	54	-18.88
3.210	55.30	100.00	187	-5.64	-9.54	40.12	54	-13.88
3.450	50.80	100.00	225	-5.64	-9.54	35.62	54	-18.38
3.670	57.96	100.00	105	-5.64	-9.54	42.78	54	-11.22

Table 9 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Base 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)
223.235	40.49	2.00	313	-12.19	28.30	46.00	-17.70
231.917	51.17	1.00	19	-12.77	38.40	46.00	-7.60
285.522	40.26	4.00	305	-14.89	25.37	46.00	-20.63
463.212	58.67	2.00	277	-19.96	38.71	46.00	-7.29
694.972	69.29	1.00	157	-24.78	44.51	46.00	-1.49

Table 10 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 (°)				Limit (dBuV/m)	Margin (dB)
1.855	67.70	100.00	33	-8.67	-9.54	49.49	54	-4.51
2.080	51.33	100.00	252	-8.67	-9.54	33.12	54	-20.88
2.300	54.49	100.00	109	-8.67	-9.54	36.28	54	-17.72
2.520	56.33	100.00	321	-6.84	-9.54	39.95	54	-14.05
2.770	61.66	100.00	57	-6.84	-9.54	45.28	54	-8.72
3.230	57.13	100.00	154	-5.64	-9.54	41.95	54	-12.05
3.450	53.13	100.00	165	-5.64	-9.54	37.95	54	-16.05
3.670	54.30	100.00	217	-5.64	-9.54	39.12	54	-14.88

Table 11 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Base Vertical]

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)
223.235	41.16	1.00	27	-12.19	28.97	46.00	-17.03
231.917	46.85	1.00	158	-12.77	34.08	46.00	-11.92
462.835	61.12	1.00	67	-19.95	41.17	46.00	-4.83
510.777	47.15	3.00	325	-20.68	26.47	46.00	-19.53
694.972	64.87	2.00	215	-24.78	40.09	46.00	-5.91

Table 12 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 20, Base Vertical]

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)				Limit (dBuV/m)	Margin (dB)
1.157	64.69	100.00	326	-8.67	-9.54	46.48	54	-7.52
1.855	65.17	100.00	326	-8.67	-9.54	46.96	54	-7.04
2.080	50.83	100.00	25	-8.67	-9.54	32.62	54	-21.38
2.300	54.83	100.00	227	-8.67	-9.54	36.62	54	-17.38
2.520	56.83	100.00	251	-6.84	-9.54	40.45	54	-13.55
2.770	60.33	100.00	211	-6.84	-9.54	43.95	54	-10.05
2.990	51.66	100.00	8	-6.84	-9.54	35.28	54	-18.72
3.230	57.80	100.00	312	-5.64	-9.54	42.62	54	-11.38
3.450	53.63	100.00	38	-5.64	-9.54	38.45	54	-15.55
3.670	57.13	100.00	318	-5.64	-9.54	41.95	54	-12.05

Table 13 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, 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)
225.877	43.71	1.00	20	-12.38	31.33	46.00	-14.67
234.560	36.65	1.00	155	-12.95	23.70	46.00	-22.30
285.522	42.34	3.00	169	-14.89	27.45	46.00	-18.55
451.132	44.94	2.00	314	-19.76	25.18	46.00	-20.82
510.777	50.24	4.00	266	-20.68	29.56	46.00	-16.44

Table 14 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Handset Horizontal]

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)				Limit (dBuV/m)	Margin (dB)
1.810	66.10	100.00	232	-8.67	-9.54	47.89	54	-6.11
2.020	61.66	100.00	57	-8.67	-9.54	43.45	54	-10.55
2.240	63.83	100.00	248	-8.67	-9.54	45.62	54	-8.38
2.460	57.66	100.00	155	-6.84	-9.54	41.28	54	-12.72
2.680	50.16	100.00	14	-6.84	-9.54	33.78	54	-20.22
2.900	53.16	100.00	194	-6.84	-9.54	36.73	54	-17.22
3.150	56.16	100.00	319	-6.84	-9.54	39.78	54	-14.22
3.370	59.30	100.00	248	-5.64	-9.54	44.12	54	-9.88
3.590	54.13	100.00	100	-5.64	-9.54	38.95	54	-15.05

Table 15 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Handset Vertical]

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)
225.877	42.51	2.00	331	-12.38	30.13	46.00	-15.87
234.183	42.17	2.00	52	-12.93	29.24	46.00	-16.76
451.132	55.85	1.00	128	-19.76	36.09	46.00	-9.91

Table 16 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)				Limit (dBuV/m)	Margin (dB)
1.810	67.61	100.00	23	-8.67	-9.54	49.40	54	-4.60
2.020	58.16	100.00	257	-8.67	-9.54	39.95	54	-14.05
2.240	55.49	100.00	148	-8.67	-9.54	37.28	54	-16.72
2.460	52.50	100.00	355	-6.84	-9.54	36.12	54	-17.88
2.680	52.16	100.00	114	-6.84	-9.54	35.78	54	-18.22
2.900	52.00	100.00	19	-6.84	-9.54	35.62	54	-18.38
3.150	53.66	100.00	317	-6.84	-9.54	37.28	54	-16.72
3.370	65.63	100.00	241	-5.64	-9.54	50.45	54	-3.55
3.590	54.63	100.00	11	-5.64	-9.54	39.45	54	-14.55

Table 17 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)
30.605	34.57	3.00	270	-11.92	22.65	40.00	-17.35
226.632	43.93	1.00	15	-12.43	31.50	46.00	-14.50
234.937	33.51	4.00	167	-12.98	20.53	46.00	-25.47
285.522	41.58	2.00	315	-14.89	26.69	46.00	-19.31
430.260	41.35	4.00	265	-18.93	22.42	46.00	-23.58
452.265	44.83	3.00	149	-19.78	25.05	46.00	-20.95

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

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)				Limit (dBuV/m)	Margin (dB)
1.812	65.17	100.00	116	-8.67	-9.54	46.96	54	-7.04
2.020	53.83	100.00	210	-8.67	-9.54	35.62	54	-18.38
2.240	56.83	100.00	184	-8.67	-9.54	38.62	54	-15.38
2.680	53.00	100.00	15	-6.84	-9.54	36.62	54	-17.38
2.930	53.33	100.00	194	-6.84	-9.54	36.95	54	-17.05
3.150	51.16	100.00	292	-6.84	-9.54	34.78	54	-19.22

Table 19 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Handset Vertical]

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)
226.632	43.09	1.00	70	-12.43	30.66	46.00	-15.34
234.937	42.66	2.00	215	-12.98	29.68	46.00	-16.32
452.642	56.02	1.00	67	-19.78	36.24	46.00	-9.76

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

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)				Limit (dBuV/m)	Margin (dB)
1.812	66.54	100.00	145	-8.67	-9.54	48.33	54	-5.67
2.020	52.33	100.00	17	-8.67	-9.54	34.12	54	-19.88
2.240	53.16	100.00	258	-8.67	-9.54	34.95	54	-19.05
2.460	56.33	100.00	323	-6.84	-9.54	39.95	54	-14.05
2.680	52.33	100.00	187	-6.84	-9.54	35.95	54	-18.05

IV. Verify Frequencies and Channels

Table 21 Verify the Frequency Pairs

Channel	Handset (MHz)	Base (MHz)	Channel	Handset (MHz)	Base (MHz)
1	902.58	925.08	11	903.78	926.28
2	902.70	925.20	12	903.90	926.40
3	902.82	925.32	13	904.02	926.52
4	902.94	925.44	14	904.14	926.64
5	903.06	925.56	15	904.26	926.76
6	903.18	925.68	16	904.38	926.88
7	903.30	925.80	17	904.50	927.00
8	903.42	925.92	18	904.62	927.12
9	903.54	926.04	19	904.74	927.24
10	903.66	926.16	20	904.86	927.36

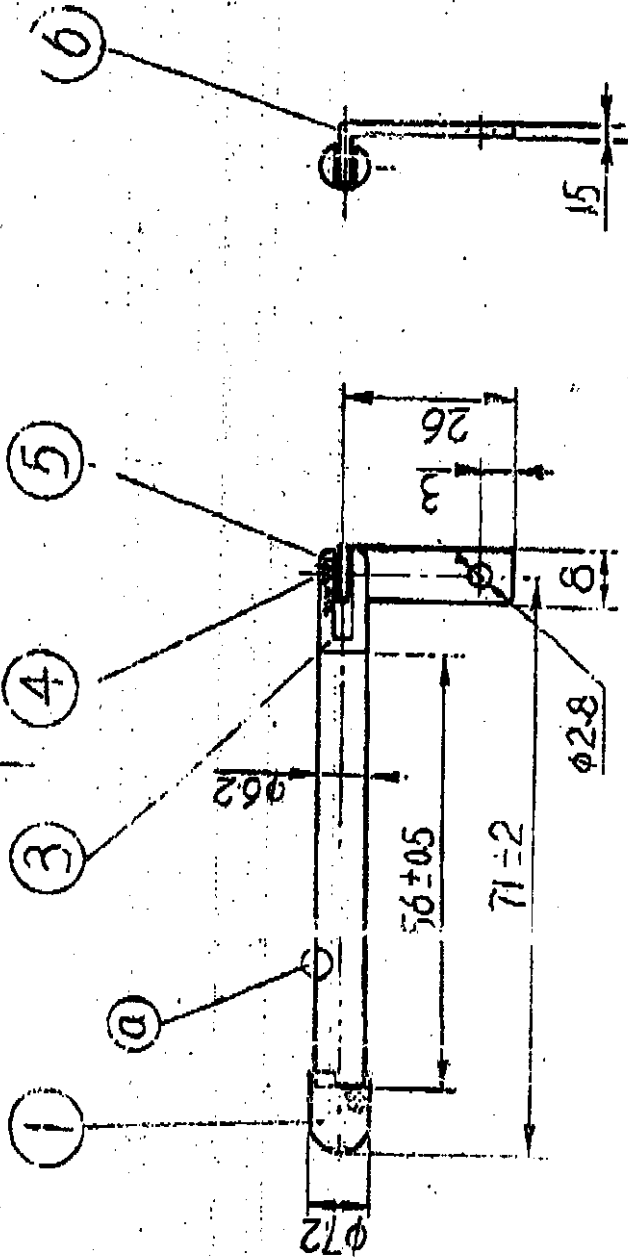
Note: This is for sure that all frequencies are in 902 MHz to 928 MHz.

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 65,000 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



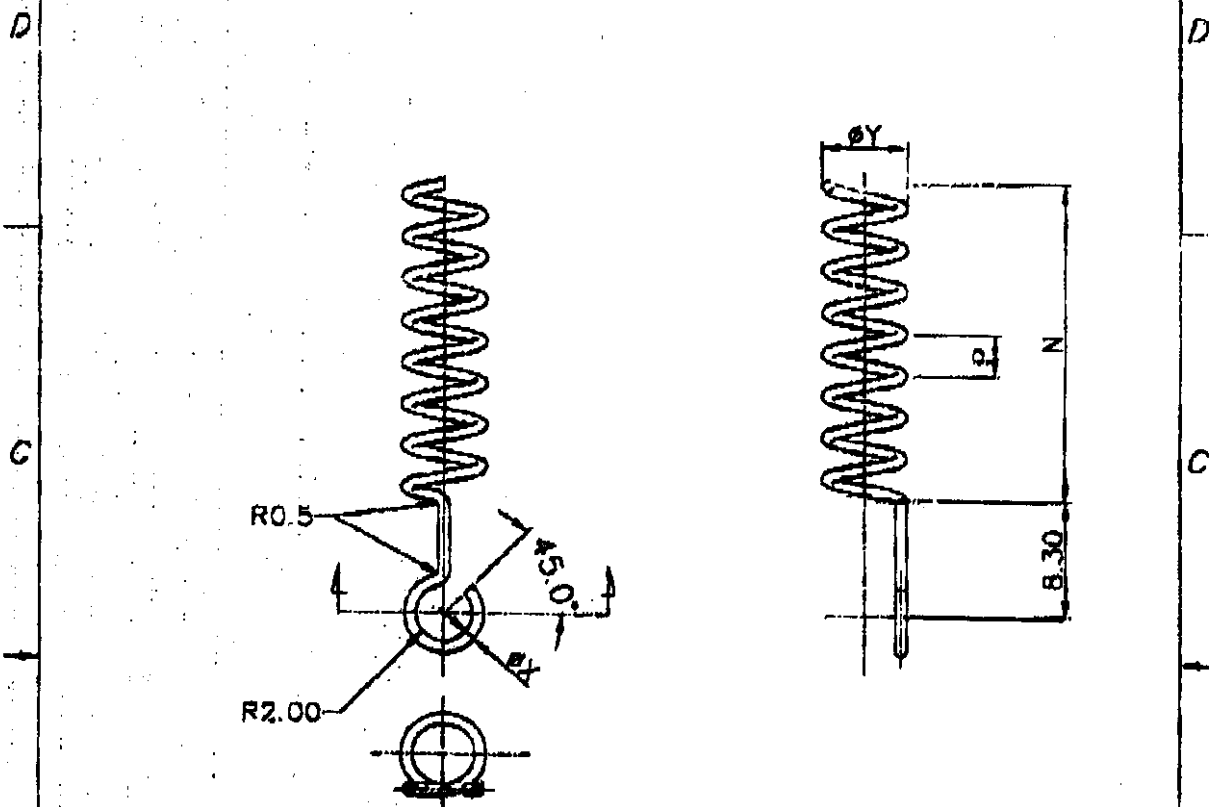
@ DETAIL

NO.	NAME	MATERIAL	QTY	UNIT	TO TOLERANCE	DATE	REVISION	SIGN
1	TUBE	PVC	1	WHITE				
2	CLING PLATE	SPCC	1	"				
3	WASHER	PBS	2					
4	SCREW	SS304	1					
5	BASE	SS304	1	NIC				
6	ANTENNA	BST	1	N				
7	TIP	ABS	1	WHITE				

ISSUED	CHECKED	APPROVED	DATE	DRAWING NO.	PART NAME	PART NO.
			2501/9	HF-22A	IND. ANTENNA	

ZHONGSHAN NANSHAN LIGHT IND. L

REVISIONS			
REV. ITEM	DESCRIPTION	PREPARED	APPROVED
1 0	RELEASED FOR QUOTATION ONLY	Barry Chow 990514	K M CHAN 990514



SPECIFICATIONS :

PITCH (P)	4.0mm
NO. OF TURN (N)	6-3/4
DIAMETER OF WIRE (X)	0.8mm
DIAMETER OF SPRING (Y)	8.0mm

MATERIAL : PRE-NICKEL PLATED MEDIUM CARBON STEEL
(THE MATERIAL SHOULD BE EASY FOR SOLDERING)

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM		S. MEGGA TELECOMMUNICATIONS LTD.	
TOLERANCE ON : LINEAR : X.X ±0.2 X.XX ±0.13 ANGULAR : X, ±1° X.X ±0.5°		SCALE DO NOT SCALE	TITLE COIL ANTENNA H/S
DRAWN Barry Chow	DATE 990514	USED ON TELEDEX TR1C/TR2C TH2M	DWG. NO. 7510800110(0200)
CHECKED	DATE	REF. HS-COIL	SIZE A4
APPROVED K M CHAN	DATE 990514		SHEET 1