

FCC PART 15 Subpart C

EMI MEASUREMENT AND TEST REPORT


For

Lionda Technology Co., Ltd.

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Shenzhen, Guangdong, P.R.China 518102

FCC ID: O63MH9940LD02

May 3, 2002

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: 900MHz Cordless Phone
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Report No.: R0203224	
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TABLE OF CONTENTS

1 - GENERAL INFORMATION.....	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
1.2 OBJECTIVE	3
1.3 RELATED SUBMITTAL(S)/GRANT(S)	3
1.4 TEST METHODOLOGY	3
1.5 TEST FACILITY	3
1.6 TEST EQUIPMENT LIST	4
1.8 LOCAL SUPPORT EQUIPMENT LIST AND DETAILS.....	4
1.9 EXTERNAL I/O CABLING LIST AND DETAILS	4
2 - SYSTEM TEST CONFIGURATION.....	5
2.1 DESCRIPTION OF TEST CONFIGURATION	5
2.2 CONFIGURATION OF TEST SYSTEM (BASE).....	6
2.3 TEST SETUP BLOCK DIAGRAM.....	6
2.4 EQUIPMENT MODIFICATIONS	6
3 - CONDUCTED EMISSIONS TEST DATA.....	7
3.1 MEASUREMENT UNCERTAINTY	7
3.2 EUT SETUP.....	7
3.3 SPECTRUM ANALYZER SETUP	7
3.4 TEST PROCEDURE	8
3.5 SUMMARY OF TEST RESULTS	8
3.6 CONDUCTED EMISSIONS TEST DATA	8
3.7 PLOT OF CONDUCTED EMISSIONS TEST DATA	8
4 - RADIATED EMISSION DATA	10
4.1 MEASUREMENT UNCERTAINTY	10
4.2 EUT SETUP.....	10
4.3 SPECTRUM ANALYZER SETUP	10
4.4 TEST PROCEDURE	11
4.5 CORRECTED AMPLITUDE & MARGIN CALCULATION	11
4.6 SUMMARY OF TEST RESULTS	12
4.7 RADIATED EMISSIONS TEST RESULT DATA	13
5 - BAND EDGES TESTING	15
5.1 TEST PROCEDURE	15
5.2 TEST EQUIPMENT	15
5.3 TEST RESULTS	15

1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The *Lionda Technology Co., Ltd.*'s product, model name: *MH9940*, *MH9941* or the "EUT" as referred to in this report is a 900MHz cordless 40-Channel analog cordless telephone with digital answering machine and caller ID on handset.

The EUT was composed of two parts, one is a Base which measures approximately 6.0"L x 5.6"W x 3.0"H, and the other is a Handset which measures approximately 6.5"L x 1.8" W x 1.4"H.

** The test data was good for test sample only. It may have deviation for other product samples.*

1.2 Objective

This test report is prepared on behalf of *Lionda Technology Co., Ltd.* based on the Electromagnetic Interference (EMI) tests performed on the EUT in accordance with Federal Communication Commissions rules.

The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by FCC Title 47, Part 15, Subpart C, section 15.205, 15.207, and 15.249.

1.3 Related Submittal(s)/Grant(s)

No Related Submittals

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 –1992, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

1.5 Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-1992.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, IEC/CISPR 22: 1998, and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

1.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Cal. Due Date
HP	Spectrum Analyzer	8564E	08303	12/6/2002
HP	Spectrum Analyzer	8593B	2919A00242	12/20/2002
HP	Amplifier	8349B	2644A02662	12/20/2002
HP	Quasi-Peak Adapter	85650A	917059	12/6/2002
HP	Amplifier	8447E	1937A01046	12/6/2002
A.H. System	Horn Antenna	SAS0200/571	261	12/27/2002
Com-Power	Log Periodic Antenna	AL-100	16005	11/2/2002
Com-Power	Biconical Antenna	AB-100	14012	11/2/2002
Solar Electronics	LISN	8012-50-R-24-BNC	968447	12/28/2002
Com-Power	LISN	LI-200	12208	12/20/2002
Com-Power	LISN	LI-200	12005	12/20/2002
BACL	Data Entry Software	DES1	0001	12/20/2002

***Statement of Traceability: Bay Area Compliance Laboratory Corp.** Certifies that all calibration has been performed using suitable standards traceable to the NATIONAL INSTITUTE of STANDARDS and TECHNOLOGY.

1.8 Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
TELTONE CORP.	Simulator	TLS-3B-01	80071	DOC
PANASONIC	Telephone	KX-T3175	6IBTB142741	ACJMLA-75986-MT-E

1.9 External I/O Cabling List and Details

Cable Description	Length (M)	Port/From	To
Unshielded RJ 11 telephone cable	2.0	Simulator RJ 11 Port	EUT
Unshielded RJ 11 telephone cable	2.0	Simulator RJ 11 Port	Telephone

2 - SYSTEM TEST CONFIGURATION

2.1 Description of Test Configuration

The EUT was configured for testing in a typical fashion (as normally used by a typical user).

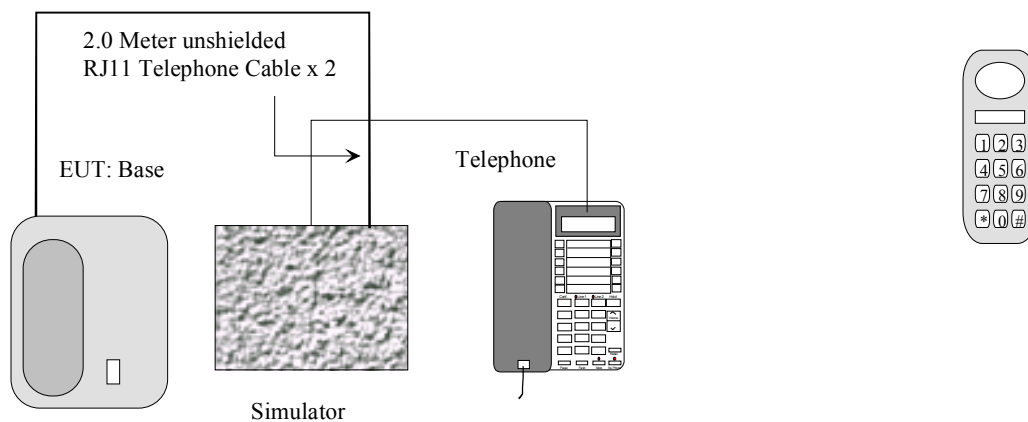
Handset being tested: The Handset unit was placed on the wooden table and tested in three orthogonal axis. The handset was connected to the headset via its headset port. The Low, middle, and high channels were tested. The handset was transmitting to and receiving from the Base unit. The EUT was investigated for emissions while off hook. The radiated data was taken in this mode of operation. All initial and final investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the 2.5.

Base being tested: The Base unit was placed on the wooden table. The Low, middle, and high channels were tested. The base was connected to the line simulator and an AC adapter via its Tel Line and power ports, respectively. The base was transmitting and receiving from the Handset. The conducted as well as radiated data was taken in this mode of operation. All initial and final investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the 2.4.

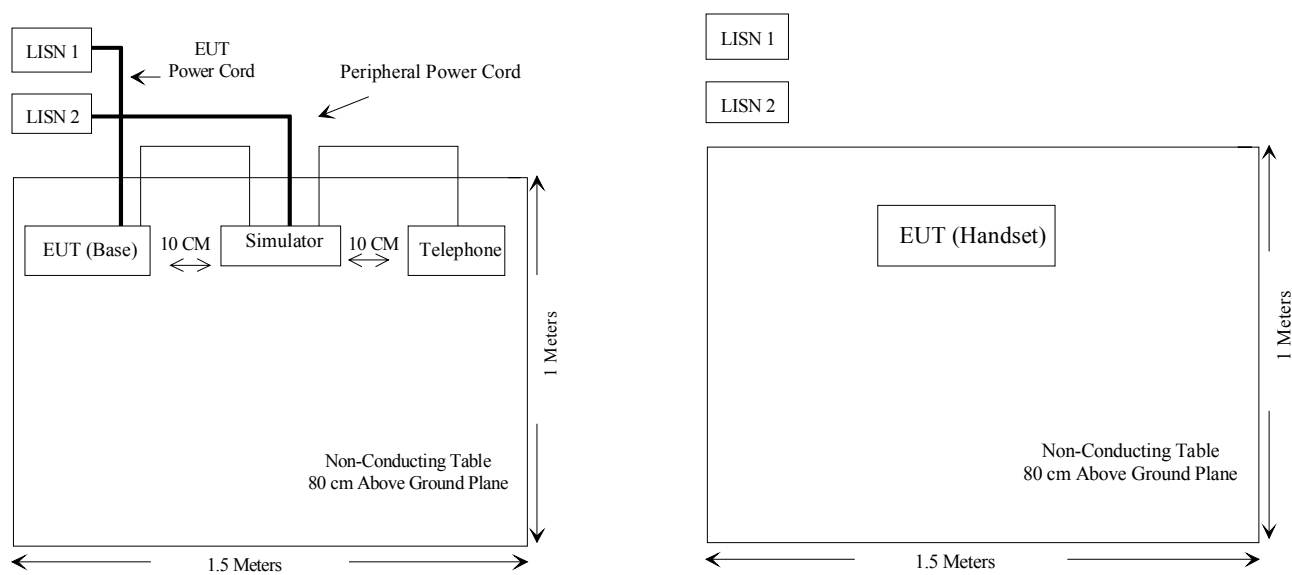
2.2 Configuration of Test System (Base)

Base

Handset



2.3 Test Setup Block Diagram



2.4 Equipment Modifications

No modification(s) to the EUT were made by BACL to comply with the applicable limits.

3 - CONDUCTED EMISSIONS TEST DATA

3.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at BACL is ± 2.4 dB.

3.2 EUT Setup

The measurement was performed at the **Open Area Test Site**, using the same setup per ANSI C63.4 - 1992 measurement procedure. Specification used was with the FCC Class B limits.

The Base unit of EUT was connected to a 110 VAC / 60 Hz power source and it was placed center and the back edge of the test table. The simulator was placed on one side of the EUT base, and the telephone was placed on the other side the EUT base. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.

The spacing between the peripherals was 10 centimeters.

External Input / Output cables were draped over edge of the test table and bundle when necessary.

3.3 Spectrum Analyzer Setup

The spectrum analyzer was set with the following configurations during the conducted emission test:

Start Frequency.....	450 kHz
Stop Frequency.....	30 MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10 kHz
Video Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode.....	Normal

3.4 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first LISN with all support equipment power cords connected to the second.

The EUT was tested with the *BELL PHONES* (U090030D) (S/N: E124946) power adapter to represent worst-case results for the final qualification test. Therefore, these results were used for final test data recorded in the table listed under section 3.6 of this report.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination. All data was recorded in the peak detection mode. Quasi-peak readings were only performed when an emission was found to be marginal (within -4 dB of specification limit). Quasi-peak readings are distinguished with a "Qp".

3.5 Summary of Test Results

According to the data in section 3.6, the EUT complied with the FCC Conducted margin for a Class B device and these test results is deemed satisfactory evidence of compliance with RSS-210 of the Canadian Interference-Causing Equipment Regulations, with the *worst* margin reading of:

-1.1 dB μ V at 0.530 MHz in the Line mode for the *BELL PHONES*, Model U090030D power adapter

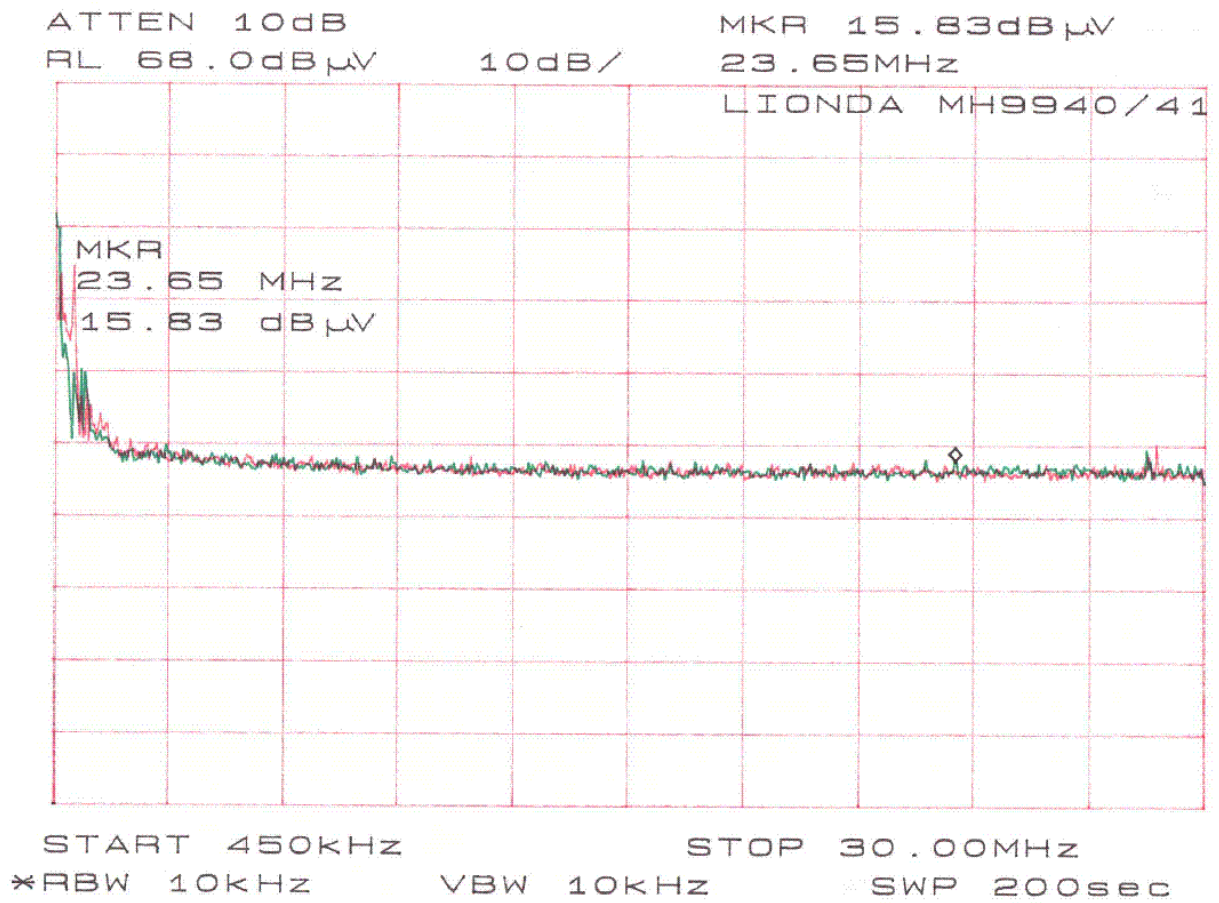
3.6 Conducted Emissions Test Data

3.6.1 Test Data for *BELL PHONES*, model U090030D, S/N: E124946, 0.45 - 30 MHz

LINE CONDUCTED EMISSIONS				FCC CLASS B	
Frequency MHz	Amplitude dB μ V	Detector Qp/Ave/Peak	Phase Line/Neutral	Limit dB μ V	Margin dB
0.530	46.9	QP	Line	48	-1.1
0.890	43.4	QP	Neutral	48	-4.6
0.615	42.6	QP	Neutral	48	-5.4
1.140	28.7	QP	Line	48	-19.3
28.770	20.3	QP	Neutral	48	-27.7
28.520	19.4	QP	Line	48	-28.6

3.7 Plot of Conducted Emissions Test Data

Plot of Conducted Emissions test data for the *BELL PHONES Power Adapter*, model U090030D is presented hereinafter as reference.



4 - RADIATED EMISSION DATA

4.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is ± 4.0 dB.

4.2 EUT Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup in accordance with the ANSI C63.4 - 1992. The specification used was the FCC 15 Subpart C limits.

The Base of EUT was connected to a 110 VAC / 60 Hz power source and it was placed center and the back edge of the test table. The simulator was placed on one side of the EUT base, and the telephone was placed on the other side the EUT base. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.

The spacing between the peripherals was 10 centimeters.

The external Input / Output cables were draped over edge of the test table and bundle when necessary.

4.3 Spectrum Analyzer Setup

According to FCC Rules, 47 CFR 15.33 (a) (1), the system was tested to 10GHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Start Frequency	30 MHz
Stop Frequency	10GHz
Sweep Speed	Auto
IF Bandwidth	1 MHz
Video Bandwidth	1 MHz
Quasi-Peak Adapter Bandwidth.....	120 kHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth.....	1MHz

4.4 Test Procedure

For the radiated emissions test, both the EUT and all support equipment power cords were connected to the AC floor outlet since the power supply (U090030D) used by the EUT did not provide an accessory power outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "Qp" in the data table.

4.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB μ V means the emission is 7dB μ V below the maximum limit for applicable limits. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Applicable Limit}$$

4.6 Summary of Test Results

According to the data in section 4.7, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.207, and 15.249 after tested to 10th harmonics as required by FCC and had the worst margin of:

For Base:

-8.1 dB μ V at 583.70 MHz in the Horizontal polarization, Unintentional Emission, 30MHz to 1000 MHz, 3 meters

-1.1 dB μ V at 902.12 MHz in the Horizontal polarization, Low Frequency, 30 to 10GHz, 3 meters

-0.9 dB μ V at 902.69 MHz in the Horizontal polarization, Middle Frequency, 30 to 10GHz, 3 meters

-0.7 dB μ V at 903.29 MHz in the Horizontal polarization, High Frequency, 30 to 10GHz, 3 meters

For Handset:

-14.6 dB μ V at 454.80 MHz in the Horizontal polarization, Unintentional Emission, 30MHz to 1000 MHz, 3 meters

-1.8 dB μ V at 926.12 MHz in the Horizontal polarization, Low Frequency, 30 to 10GHz, 3 meters

-1.7 dB μ V at 926.69 MHz in the Horizontal polarization, Middle Frequency, 30 to 10GHz, 3 meters

-1.0 dB μ V at 927.29 MHz in the Horizontal polarization, High Frequency, 30 to 10GHz, 3 meters

4.7 Radiated Emissions Test Result Data**Base, Unintentional Emission, 30 MHz to 1000 MHz, 3 meters**

INDICATED		TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable dB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
583.70	39.7	60	2.0	H	20.2	3.0	25.0	37.9	46	-8.1
751.00	36.2	210	1.5	H	22.5	2.4	25.0	36.1	46	-9.9
82.00	40.3	270	1.0	H	9.6	1.4	25.0	26.3	40	-13.7
220.16	41.2	90	1.2	H	12.1	3.9	25.0	32.2	46	-13.8
751.00	29.7	0	1.5	V	22.5	2.4	25.0	29.6	46	-16.4
583.70	30.5	60	2.2	V	20.2	3.0	25.0	28.7	46	-17.3
220.16	33.4	30	1.0	V	12.1	3.9	25.0	24.4	46	-21.6
82.00	27.7	210	1.0	V	9.6	1.4	25.0	13.7	40	-26.3

Base, Intentional Emission, 30 MHz to 10GHz, 3 meters

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Base Unit, Low Frequency											
902.12	90.1	Fund.	60	1.2	H	24.8	3.0	25.0	92.9	94	-1.1
902.12	89.6	Fund.	90	1.5	V	24.8	3.0	25.0	92.4	94	-1.6
1804.24	50.5	AVG	330	1.0	H	25.3	2.6	30.0	48.4	54.0	-5.6
1804.24	48.2	AVG	270	1.5	V	25.3	2.6	30.0	46.1	54.0	-7.9
2706.36	29.3	AVG	30	1.2	V	29.0	3.7	30.0	32.0	54.0	-22.0
2706.36	29.1	AVG	0	1.2	H	29.0	3.7	30.0	31.8	54.0	-22.2
Base Unit, Middle Frequency											
902.69	90.3	Fund.	330	1.0	H	24.8	3.0	25.0	93.1	94	-0.9
902.69	88.7	Fund.	270	1.2	V	24.8	3.0	25.0	91.5	94	-2.5
1805.38	50.8	AVG	330	1.0	H	25.3	2.6	30.0	48.7	54.0	-5.3
1805.38	48.2	AVG	45	1.0	V	25.3	2.6	30.0	46.1	54.0	-7.9
2708.07	31.4	AVG	0	1.5	V	29.0	3.7	30.0	34.1	54.0	-19.9
2708.07	29.2	AVG	310	2.0	H	29.0	3.7	30.0	31.9	54.0	-22.1
Base Unit, High Frequency											
903.29	90.5	Fund.	230	1.2	H	24.8	3.0	25.0	93.3	94	-0.7
903.29	89.4	Fund.	270	2.5	V	24.8	3.0	25.0	92.2	94	-1.8
1806.58	51.5	AVG	0	1.0	H	25.3	2.6	30.0	49.4	54.0	-4.6
1806.58	49.6	AVG	90	1.2	V	25.3	2.6	30.0	47.5	54.0	-6.5
2709.87	32.9	AVG	60	1.5	V	29.0	3.7	30.0	35.6	54.0	-18.4
2709.87	28.8	AVG	45	1.2	H	29.0	3.7	30.0	31.5	54.0	-22.5

Note: No more apparent emission found after the 2nd harmonics for base unit.

Handset, Unintentional Emission, 30 MHz to 1000 MHz, 3 meters

INDICATED		TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable dB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
454.80	35.4	230	1.5	H	17.8	3.2	25.0	31.4	46.0	-14.6
407.35	34.8	90	1.0	H	16.5	2.9	25.0	29.2	46.0	-16.8
467.76	37.6	180	1.2	V	17.8	3.7	25.0	34.1	46.0	-18.1
454.80	30.7	260	1.2	V	17.8	3.2	25.0	26.7	46.0	-19.3
530.28	30.4	0	1.2	H	19.4	1.8	25.0	26.6	46.0	-19.4
467.76	39.9	160	1.5	H	17.8	3.7	25.0	36.4	46.0	-19.5
530.28	29.6	310	1.2	V	19.4	1.8	25.0	25.8	46.0	-20.2
407.35	31.1	60	1.0	V	16.5	2.9	25.0	25.5	46.0	-20.5
140.10	36.5	60	1.0	V	13.2	1.0	25.0	25.7	43.5	-34.1
140.10	40.3	90	1.2	H	13.2	1.0	25.0	29.5	43.5	-34.7

Handset, Intentional Emission, 30 MHz to 10 GHz, 3 meters

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Handset Unit, Low Frequency											
926.12	88.1	Fund.	270	1.5	H	24.7	4.4	25.0	92.2	94	-1.8
926.12	87.6	Fund.	0	1.2	V	24.7	4.4	25.0	91.7	94	-2.3
1852.24	45.7	AVG	270	1.0	H	25.3	2.6	30.0	43.6	54.0	-10.4
1852.24	42.3	AVG	120	1.0	V	25.3	2.6	30.0	40.2	54.0	-13.8
Handset Unit, Middle Frequency											
926.69	88.2	Fund.	30	1.0	H	24.7	4.4	25.0	92.3	94	-1.7
926.69	86.7	Fund.	230	1.0	V	24.7	4.4	25.0	90.8	94	-3.2
1853.38	43.2	AVG	0	1.2	H	25.3	2.6	30.0	41.1	54.0	-12.9
1853.38	41.6	AVG	320	1.2	V	25.3	2.6	30.0	39.5	54.0	-14.5
Handset Unit, High Frequency											
927.29	88.9	Fund.	210	1.0	H	24.7	4.4	25.0	93.0	94	-1.0
927.29	87.3	Fund.	340	1.2	V	24.7	4.4	25.0	91.4	94	-2.6
1855.58	41.8	AVG	270	1.5	H	25.3	2.6	30.0	39.7	54.0	-23.6
1855.58	39.2	AVG	230	1.5	V	25.3	2.6	30.0	37.1	54.0	-34.0

Note: No more apparent emission found after the 1st harmonics for handset unit.

5 - BAND EDGES TESTING

Requirements: FCC 15.249 (c), the emission power at the START and STOP frequencies shall be at least 50 dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209, whichever is the lesser attenuation.

5.1 Test Procedure

The antenna was removed and a low loss RF cable was connected to the transmitter output. The other end of cable was connected to a spectrum analyzer with the START and STOP frequencies set to the operation band. Transmitter output was read off the spectrum analyzer in dBm. The power output at the transmitter was determined by adding the value of the attenuator to the spectrum analyzer reading.

The test was performed for handset and the base respectively.

5.2 Test Equipment

HP 8566B Spectrum Analyzer
HP 7470A Plotter

5.3 Test Results

Refer to the attached plots.

Base - Low Frequency
Handset - High Frequency

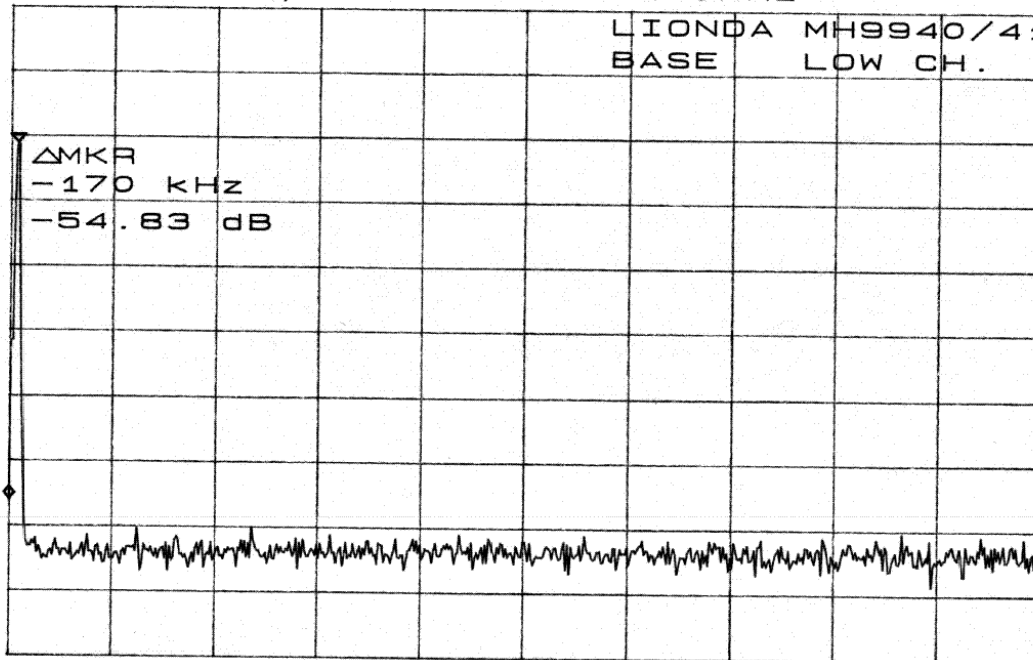
ATTEN 10dB

RL 107.0dB μ V

10dB/

 Δ MKR -54.83dB

-170kHz

LIONDA MH9940/41
BASE LOW CH. Δ MKR
-170 kHz
-54.83 dBSTART 902.00MHz STOP 928.00MHz
*RBW 30kHz VBW 30kHz *SWP 80.0ms

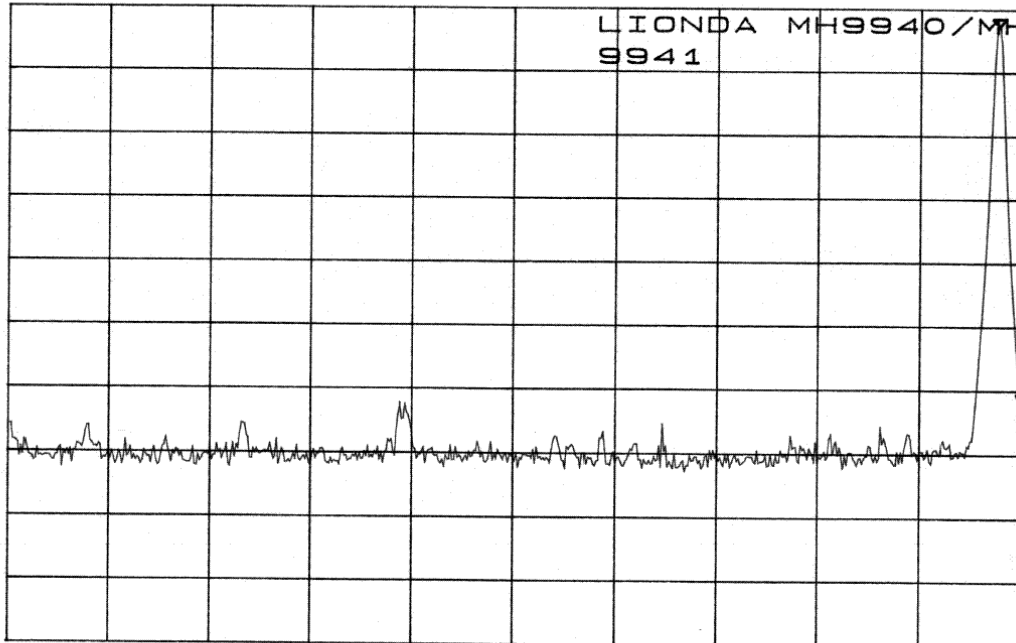
*ATTEN 10dB

RL 107.0dB μ V

10dB/

 Δ MKR -58.84dB

610kHz

LIONDA MH9940/MH
9941START 902.00MHz STOP 928.00MHz
*RBW 100kHz VBW 100kHz SWP 50.0ms