

Class B Certification Application

Under Part 15, Subpart C (15.209)

EUT : Wireless Earphone

MODEL : SD-200WE

FCC ID : P2ISD-200WE

SRT REPORT # FID1I028

PREPARED FOR :

SUPER DEVICE MICROELECTRONICS CO., LTD.

3F, NO. 11, ALLEY 3, LANE 182, SEC. 2,
WEN-HUS ROAD, PANCHIAO CITY, TAIPEI SHIEN,
TAIWAN, R.O.C.



SUPER DEVICE MICROELECTRONICS CO., LTD.
3F, NO. 11, ALLEY 3, LANE 182, SEC. 2, WEN-HUS ROAD, PANCHIAO CITY,
TAIPEI SHIEN, TAIWAN, R.O.C.
TEL : 886-2-82511100 FAX : 886-2-82511150

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

To whom it may concern :

This is to serve as proper written authorization that Spectrum Research and Testing Laboratory, Inc., 15200, Shady Grove Rd., Rockville, MD. 20850, will act as our representative in all matters relating to FCC applications for equipment approval. This includes the signing of all related documents, the transmitting of required fees, and receiving correspondence and notifications from the FCC. All acts performed by Spectrum Research and Testing Laboratory, Inc., especially modifications to our equipment under testing will be carried out on our behalf.

Meantime, the applicant certifies that in the case of an individual applicant (e.g., corporation), no party to the applicant is subject to a denial of federal benefits, that includes FCC denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 862. For a definition of a "party" for these purposes see 47 C.F.R. 1.2002 (b).

If you have any questions regarding our applications for equipment approval, please contact Spectrum Research and Testing Laboratory, Inc. by calling (301) 670-2818.

Respectfully,

Tyler Wang
(Name, Surname)

Manager
(Position/Title)

DATE : Sep, 11, 2001

Effective Dates :

From Sep, 11, 2001 to Sep, 11, 2002

EMI TESTING REPORT

EUT : Wireless Earphone

MODEL : SD-200WE

FCC ID : P2ISD-200WE

PREPARED FOR :

SUPER DEVICE MICROELECTRONICS CO., LTD.

3F, NO.11, ALLEY 3, LANE 182, SEC. 2,

WEN-HUS ROAD, PANCHIAO CITY, TAIPEI SHIEN,

TAIWAN, R.O.C.

PREPARED BY :

SPECTRUM RESEARCH & TESTING LABORATORY INC.

NO. 101-10, LING 8 , SHAN-TONG LI CHUNG – LI CITY ,
TAOYUAN, TAIWAN , R. O. C.

TEL : (03) 4987684

FAX : (03) 4986528

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1. TEST REPORT CERTIFICATION**APPLICANT** : SUPER DEVICE MICROELECTRONICS CO., LTD.**ADDRESS** : 3F, NO. 11, ALLEY 3, LANE 182, SEC. 2,
WEN-HUS ROAD, PANCHIAO CITY,
TAIPEI SHIEN, TAIWAN, R.O.C.**EUT DESCRIPTION** : Wireless Earphone(A) POWER SUPPLY : BASE FROM BATTERY
HANDSET FROM BATTERY(B) MODEL : SD-200WE(C) FCC ID : P2ISD-200WE**FINAL TEST DATE** : 11/09/2001**MEASUREMENT PROCEDURE USED :**

* PART 15 SUBPART C (15.209) OF FCC RULES AND REGULATIONS (47 CFR PART 15)

* ANSI C63.4 - 1992

* TEST PROCEDURE AND DATA ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS.

We hereby certify that :

The measurements contained in this report were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable.

Jack Wang
TESTING ENGINEER : _____ **DATE** 11/09/2001

Jack Wang

Sunyou Chen
SUPERVISOR : _____ **DATE** 11/09/2001

Sunyou Chen

S. J. H.
APPROVED BY : _____ **DATE** 11/09/2001

Johnson Ho

2. TEST STATEMENT

2 . 1 TEST STATEMENT

1. This statement is to explain the test condition of this project.
The EUT was the test condition of each test item.
2. The data was shown in this report reflects the worst – case data for the condition as the summary of test result.
3. EUT conditions.

Frequency range : Base → 46.610MHz ~ 46.970MHz

Handset → 49.670MHz ~ 49.970MHz

Support channel : 10 channel

Mode		Channel	Mode		Channel
Mode 1	Charge	---	Mode 5	Handset	1
Mode 2	Base	1	Mode 6	Handset	6
Mode 3	Base	6	Mode 7	Handset	10
Mode 4	Base	10	Mode 8	MP3	1
---	---	---	Mode 9	MP3	8

4. Antenna Statement : Ten antenna that can be rolled is semi-fixed in the left of the Base(The antenna is unchangeable by user). The antenna of handset is fixed.
5. NVLAP logo is to be approved by management (it is according to NVLAP requirement if it need) before use.

2 . 2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS , THE STATEMENT

1. Did have
Any departure from document policies & procedures or from specifications.
Yes _____, No _____ .
If yes , the description as below.
2. The certificate and report shall not be reproduced except in full , without the written approval of SRT laboratory.
3. The report must not be used by the client to claim product endorsement by NVLAP or any agency the government.
4. This product is a test sample that was shown as the photos of this test report only.
5. The effect that the results relate only to the items tested.

3. EUT MODIFICATIONS

No modifications by SRT lab.



SUPER DEVICE MICROELECTRONICS CO., LTD.
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Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

To whom it may concern :

This is to serve as proper notice that our company agrees to make all
modifications to FCC ID : P2ISD-200WE as listed in section 3.0 of
modification to submitted by Spectrum Research and Testing Laboratory, Inc.

Respectfully,

Tyler Wang
(Name, Surname)

Manager
(Position/Title)

Effective Dates :

From Sep, 11, 2001 to Sep, 11, 2002

DATE : Sep, 11, 2001

4. CONDUCTED POWER LINE TEST

4 . 1 TEST EQUIPMENT

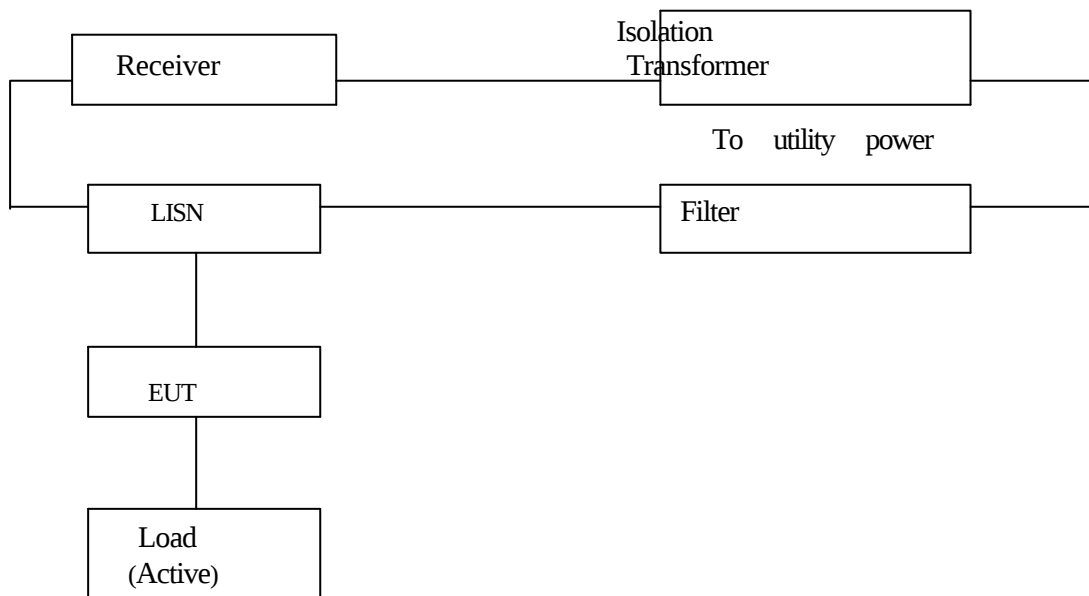
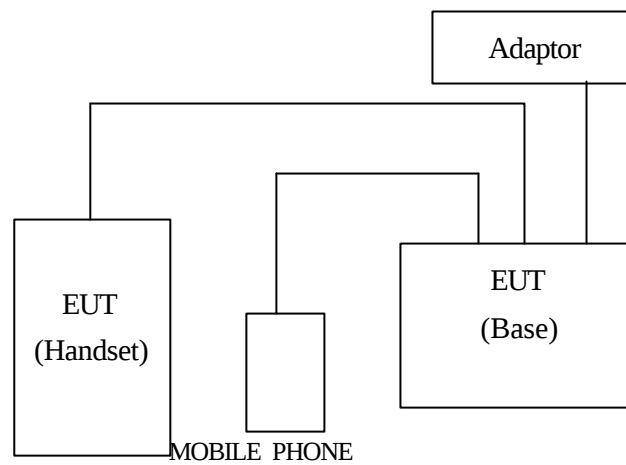
The following test equipment were used during the conducted power line test :

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE	FINAL TEST
EMI TEST RECEIVER	9 KHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30/ 826003/008	MARCH 2001 R & S	1Y	
EMI TEST RECEIVER	9 KHz TO 2750 MHz	ROHDE & SCHWARZ	ESCS30/ 830245/012	JULY 2001 ETC	1Y	√
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R-24-BNC/ 951315	JULY 2001 ETC	1Y	√
LISN	50uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R-24-BNC/ 951318	JULY 2001 ETC	1Y	√
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	MARCH 2001 ETC	1Y	√
POWER CONVERTER	50 TO 300 VAC 47 TO 63/50/60Hz	AFC	AFC-2KBB/ F100030030	APRIL 2001 SRT	1Y	√

4 . 2 TEST PROCEDURE

The EUT was tested according to ANSI C63.4 -1992. The frequency spectrum from 0.45 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 of ANSI C63.4 - 1992 . Cables and peripherals were moved to find the maximum emission levels for each frequency.

4 . 3 TEST SETUP



4 . 4 CONFIGURATION OF THE EUT

The EUT was configured according to ANSI C63.4 - 1992. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

1. EUT

DEVICE	MANUFACTURER	MODEL #	FCCID/DoC
Wireless Earphone	SUPER DEVICE MICROELECTRONICS CO., LTD.	SD-200WE	P2ISD-200WE

2 INTERNAL DEVICES

DEVICE	MANUFACTURER	MODEL #	FCCID/DoC
N/A			

3. PERIPHERALS

DEVICE	MANUFAC TURER	MODEL # SERIAL #	FCCID / DoC	CABLE
ADAPTOR	YNG YUH	5100	N/A	1.5m unshielded power cord
MOBILE PHONE	MOTOROLA	V8088	N/A	1.8m unshielded data cable
MP3	CMC	SW00060304 -97BJ	DoC	N/A
Wireless Earphone	SUPER DEVICE MICROELECTRONICS CO., LTD.	SD-200WE	P2ISD-200WE	N/A

REMARK :

- Cable - S1 : Single point shielding.
S2 : 360 ° shielding.
S3 : Double point shielding
- Cables - All 1m or greater in length - bundled according to regulations.

4 . 5 EUT OPERATING CONDITION

Operating condition is according to ANSI C63.4 - 1992.

1. EUT power on.
2. Frequency Range : Base → 46.610MHz ~ 46.970MHz
Handset → 49.670MHz ~ 49.970MHz

4 . 6 CONDUCTED POWER LINE EMISSION LIMITS

FREQUENCY RANGE (MHz)	CLASS A	CLASS B
0 . 45 - 1.705	60.0dB μ V	48.0dB μ V
1.705 - 30	69.5dB μ V	48.0dB μ V

NOTE : In the above table, the tighter limit applies at the band edges.

4 . 7 CONDUCTED POWER LINE TEST RESULTS

The frequency spectrum from 0.45 MHz to 30 MHz was investigated.
All readings are quasi-peak values with a resolution bandwidth
of 9 KHz.

- . Temperature : 26
- . Humidity : 56 %RH
- . Test result :

FREQUENCY (MHz)	LINE 1 (dBmV)	LINE 2 (dBmV)	LIMIT (dBmV)
0.50	*	19.2	48.0
0.52	20.0	*	48.0
0.77	10.4	*	48.0
0.82	*	8.4	48.0
1.42	8.6	*	48.0
4.66	*	3.0	48.0

- REMARKS** :
- * = Measurement does not apply for this frequency
 - Uncertainty in conducted emission measured is <+/-2dB
 - Any departure from specification : N/A
 - Charge Mode

SIGNED BY TESTING ENGINEER : _____

Tark

5. RADIATED EMISSION TEST

5 . 1 TEST EQUIPMENT

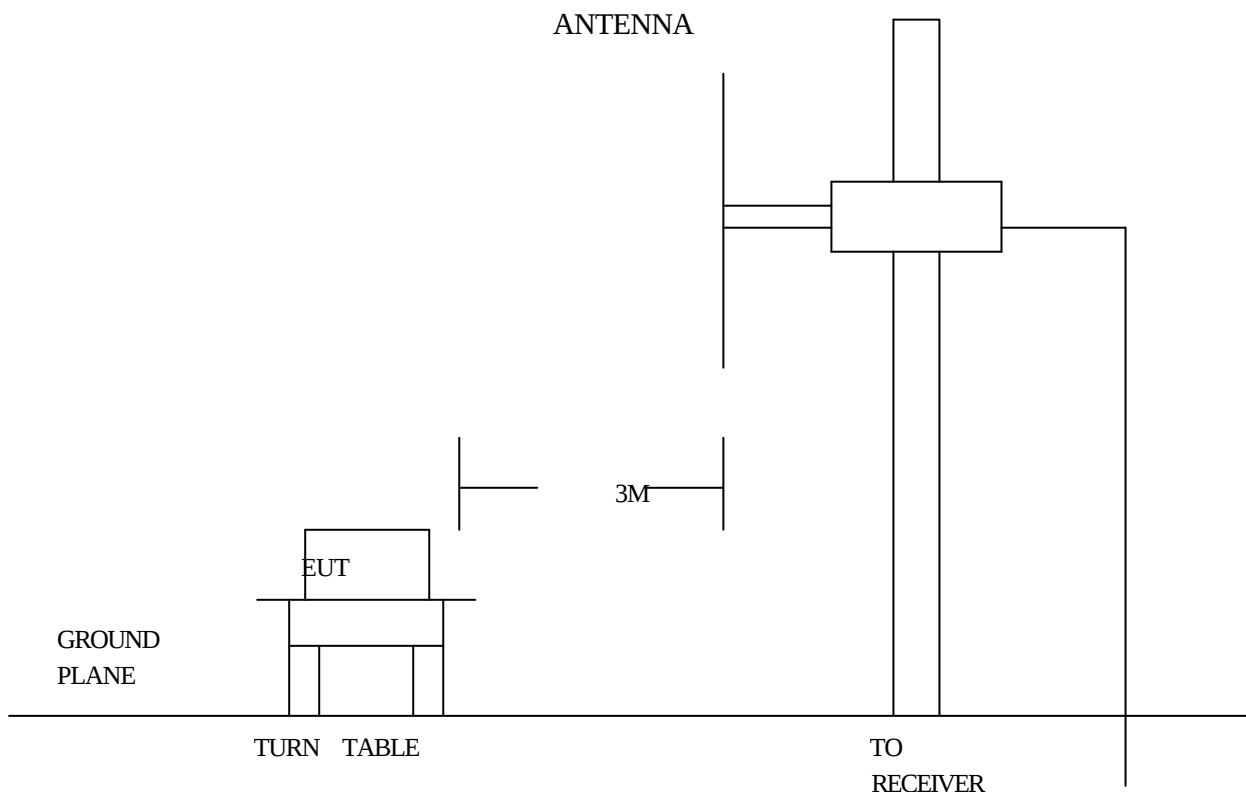
The following test equipment were used during the radiated emission test :

EQUIPMENT / FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL # / SERIAL #	DATE OF CAL. & CAL. CENTER	DUE DATE	FINAL TEST
TEST RECEIVER	9 KHz TO 2.75 MHz	R & S	ESCS30/ 830245/012	JULY 2001 ETC	1Y	
TEST RECEIVER	20 MHz TO 1000 MHz	R & S	ESVS30/ 841977/003	JUNE 2001 ETC	1Y	√
SPECTRUM ANALYZER	100 Hz TO 1500 MHz	HP	8568B/ 3001A04931	AUG. 2001 ETC	1Y	
SPECTRUM ANALYZER	9 KHz TO 22 GHz	HP	8593E/ 3322A00670	MARCH 2001 ETC	1Y	
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	MARCH 2001 ETC	1Y	√
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9003-534	FEB. 2001 SRT	1Y	
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9611-1239	FEB. 2001 SRT	1Y	
BI-LOG ANTENNA	30 MHz TO 2 GHz	SCHAFFNER-CHASE	CBL6141A/ 4181	JULY 2001 ETC	1Y	√
BI-LOG ANTENNA	26 MHz TO 1100 MHz	EMCO	3143/ 9509-1152	SEP. 2001 ITRI	1Y	
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A08402	MARCH 2001 SRT	1Y	
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A06412	JULY 2001 ETC	1Y	
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 9012-3619	JAN. 2001 ETC	1Y	

5 . 2 TEST PROCEDURE

1. The EUT was tested according to ANSI C63.4 - 1992. The radiated test was performed at SRT lab's open site. This site is on file with the FCC laboratory division, reference 31040 / SIT.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5m, table high 0.8m. All set up is according to ANSI C63.4-1992.
3. The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
4. The antenna high were varied from 1 m to 4 m high to find the maximum emission for each frequency.
5. The antenna polarization : Vertical polarization and horizontal polarization.

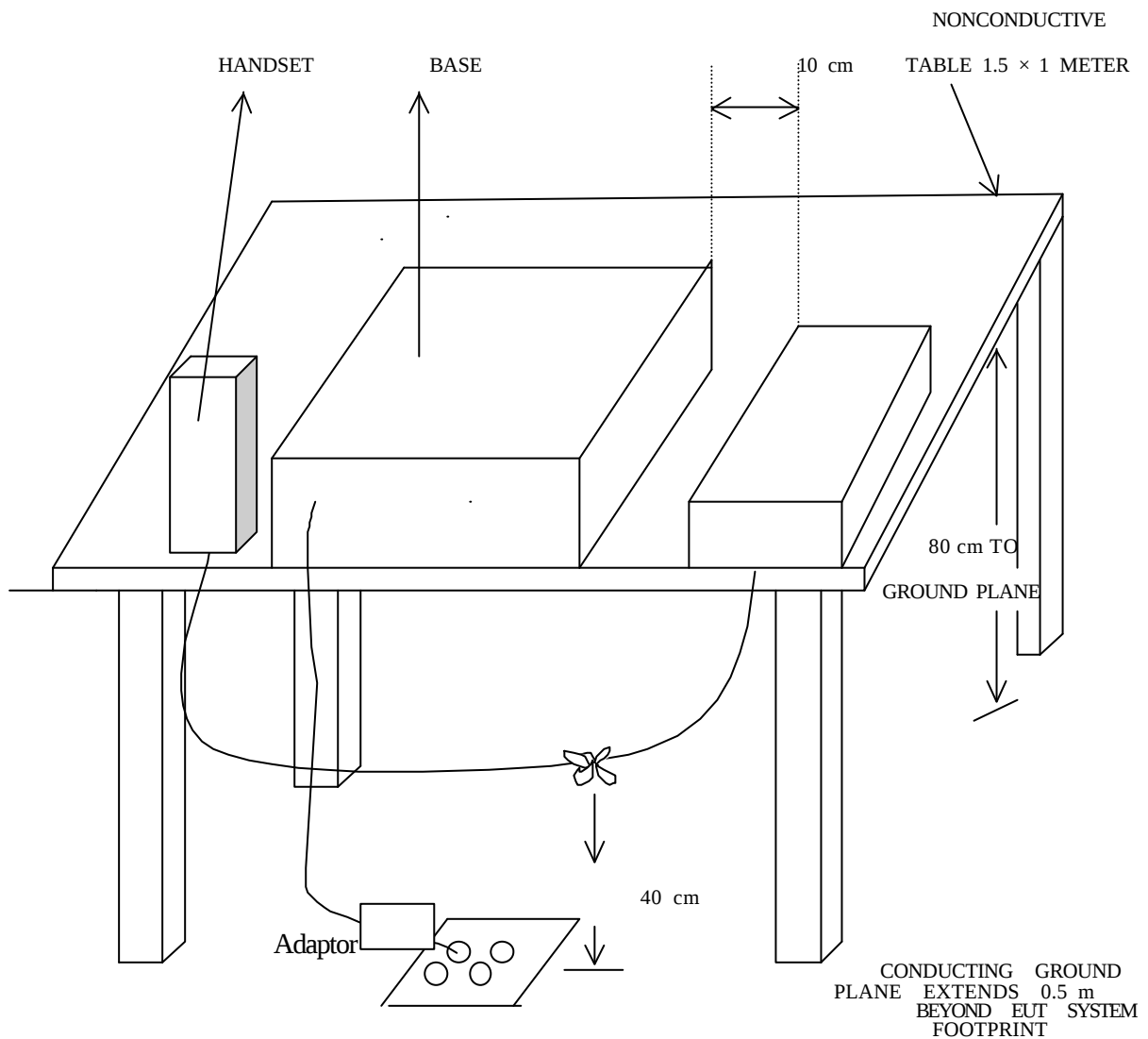
5 . 3 RADIATED TEST SET-UP



5 . 3 RADIATED TEST SET-UP

ANSI C63.4-1992

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE IN THE RANGE OF 9 KHz TO 40 GHz



5 . 4 CONFIGURATION OF THE THE EUT

Same as section 4.4 of this report

5 . 5 EUT OPERATING CONDITION

Same as section 4.5 of this report.

5 . 6 RADIATED EMISSION LIMITS

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

CLASS B

FREQUENCY (MHz)	DISTANCE (m)	FIELS STRENGTH (dBm V/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
ABOVE 960	3	54.0

FUNDAMENTAL AND HARMONICS

FUNDAMENTAL FREQUENCY	FIELD STRENGTH OF FUNDAMENTAL (MILLIVOLTS/METER)	FIELD STRENGTH OF HARMONICS (MILLIVOLTS/METER)
902MHz - 928MHz	50	500
2400MHz - 2483.5MHz	50	500
5725MHz - 5875MHz	50	500
24.0GHz - 24.25GHz	250	2500

- NOTE** : 1. In the emission tables above , the tighter limit applies at the band edges.
2. Distance refers to the distance between measuring instrument, antemna ,and the closest point of any part of the device or system.

5 . 7 RADIATED EMISSION TEST RESULTS

The frequency spectrum from 30 MHz to 1 GHz was investigated.
 All readings from 30 MHz to 1 GHz are quasi-peak values
 with a resolution bandwidth of 120 KHz . All readings are above
1GHz , peak values with a resolution bandwidth of 1 MHz.
 Measurements were made at 3 meters.

- . Temperature : 20
- . Humidity : 60 %RH
- . Test result :

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBm V)		EMISSION (dBm V/m)		LIMITS (dBm V/m)	AZ (°)	EL(M)
			HORIZ	VERT	HORIZ	VERT			
46.6094	1.1	16.3	20.0	19.5	37.4	36.9	40.0	326.4	1.0
186.44	2.2	10.5	18.0	14.0	30.7	26.7	43.5	82.4	1.0
233.05	2.2	12.8	7.0	5.0	22.0	20.0	46.0	310.7	1.0
279.66	2.3	13.0	6.6	7.0	21.9	22.3	46.0	329.5	1.0
326.27	2.7	14.1	9.6	7.2	26.4	24.0	46.0	46.7	1.0
372.88	2.7	15.4	6.2	6.0	24.3	24.1	46.0	79.2	1.0

- REMARKS** :
- *= Measurement does not apply for this frequency.
 - Uncertainty in radiated emission measured is <+/-4dB
 - Any departure from specification : N/A
 - Factor will include cable loss and correction factor.
 - Sample calculation

$$\text{Emission(dB}\mu\text{V/m)} = \text{Factor (dB)} + \text{Ant. Factor (dB/m)} + \text{reading (dB}\mu\text{V)}$$
 - AZ(°) : Turn table azimuth
 - EL(M) : Antenna height (Meter)
 - Mode 2

SIGNED BY TESTING ENGINEER : _____

5 . 7 RADIATED EMISSION TEST RESULTS

The frequency spectrum from 30 MHz to 1 GHz was investigated.
 All readings from 30 MHz to 1 GHz are quasi-peak values
 with a resolution bandwidth of 120 KHz . All readings are above
1GHz , peak values with a resolution bandwidth of 1 MHz.
 Measurements were made at 3 meters.

- . Temperature : 20
- . Humidity : 60 %RH
- . Test result :

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBm V)		EMISSION (dBm V/m)		LIMITS (dBm V/m)	AZ (°)	EL(M)
			HORIZ	VERT	HORIZ	VERT			
46.7696	1.1	16.3	19.9	19.6	37.3	37.0	40.0	312.5	1.0
187.08	2.2	10.5	17.0	15.0	29.7	27.7	43.5	84.5	1.0
233.85	2.2	12.8	6.3	4.5	21.3	19.5	46.0	329.4	1.0
280.62	2.3	12.9	6.5	6.7	21.7	21.9	46.0	86.5	1.0
327.39	2.7	14.1	10.0	7.2	26.8	24.0	46.0	79.3	1.0
374.16	2.7	15.4	5.3	5.2	23.4	23.3	46.0	84.6	1.0

- REMARKS** :
- *= Measurement does not apply for this frequency.
 - Uncertainty in radiated emission measured is <+/-4dB
 - Any departure from specification : N/A
 - Factor will include cable loss and correction factor.
 - Sample calculation

$$\text{Emission(dB}\mu\text{V/m)} = \text{Factor (dB)} + \text{Ant. Factor (dB/m)} + \text{reading (dB}\mu\text{V)}$$
 - AZ(°) : Turn table azimuth
 - EL(M) : Antenna height (Meter)
 - Mode 3

SIGNED BY TESTING ENGINEER : _____

5 . 7 RADIATED EMISSION TEST RESULTS

The frequency spectrum from 30 MHz to 1 GHz was investigated.
 All readings from 30 MHz to 1 GHz are quasi-peak values
 with a resolution bandwidth of 120 KHz . All readings are above
1GHz , peak values with a resolution bandwidth of 1 MHz.
 Measurements were made at 3 meters.

- . Temperature : 20
- . Humidity : 60 %RH
- . Test result :

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBm V)		EMISSION (dBm V/m)		LIMITS (dBm V/m)	AZ (°)	EL(M)
			HORIZ	VERT	HORIZ	VERT			
46.9698	1.1	16.3	20.0	19.6	37.4	37.0	40.0	310.8	1.0
140.91	1.8	13.1	13.4	*	28.3	*	43.5	94.2	1.0
234.85	2.2	12.8	6.0	6.0	21.0	21.0	46.0	173.4	1.0
281.82	2.3	12.9	7.0	7.0	22.2	22.2	46.0	189.4	1.0
328.79	2.7	14.1	10.6	7.4	27.4	24.2	46.0	168.4	1.0
375.76	2.7	15.4	5.3	5.3	23.4	23.4	46.0	197.4	1.0

- REMARKS** :
- *= Measurement does not apply for this frequency.
 - Uncertainty in radiated emission measured is <+/-4dB
 - Any departure from specification : N/A
 - Factor will include cable loss and correction factor.
 - Sample calculation

$$\text{Emission(dB}\mu\text{V/m)} = \text{Factor (dB)} + \text{Ant. Factor (dB/m)} + \text{reading (dB}\mu\text{V)}$$
 - AZ(°) : Turn table azimuth
 - EL(M) : Antenna height (Meter)
 - Mode 4

SIGNED BY TESTING ENGINEER : Tark

5 . 7 RADIATED EMISSION TEST RESULTS

The frequency spectrum from 30 MHz to 1 GHz was investigated.
 All readings from 30 MHz to 1 GHz are quasi-peak values
 with a resolution bandwidth of 120 KHz . All readings are above
1GHz , peak values with a resolution bandwidth of 1 MHz.
 Measurements were made at 3 meters.

- . Temperature : 20
- . Humidity : 60 %RH
- . Test result :

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBm V)		EMISSION (dBm V/m)		LIMITS (dBm V/m)	AZ (°)	EL(M)
			HORIZ	VERT	HORIZ	VERT			
46.5920	1.1	16.3	20.1	19.5	37.5	36.9	40.0	316.2	1.0
186.44	2.2	10.5	18.0	15.0	30.7	27.7	43.5	329.5	1.0
233.05	2.2	12.8	7.4	5.0	22.4	20.0	46.0	310.7	1.0
279.66	2.3	13.0	6.7	7.3	22.0	22.6	46.0	349.0	1.0
326.27	2.7	14.1	9.3	6.7	26.1	23.5	46.0	79.4	1.0
419.49	3.1	16.9	5.1	5.3	25.1	25.3	46.0	82.6	1.0

- REMARKS** :
- *= Measurement does not apply for this frequency.
 - Uncertainty in radiated emission measured is <+/-4dB
 - Any departure from specification : N/A
 - Factor will include cable loss and correction factor.
 - Sample calculation

$$\text{Emission(dB}\mu\text{V/m)} = \text{Factor (dB)} + \text{Ant. Factor (dB/m)} + \text{reading (dB}\mu\text{V)}$$
 - AZ(°) : Turn table azimuth
 - EL(M) : Antenna height (Meter)
 - Mode 8

SIGNED BY TESTING ENGINEER : _____

5 . 7 RADIATED EMISSION TEST RESULTS

The frequency spectrum from 30 MHz to 1 GHz was investigated.
 All readings from 30 MHz to 1 GHz are quasi-peak values
 with a resolution bandwidth of 120 KHz . All readings are above
1GHz , peak values with a resolution bandwidth of 1 MHz.
 Measurements were made at 3 meters.

- . Temperature : 20
- . Humidity : 60 %RH
- . Test result :

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBm V)		EMISSION (dBm V/m)		LIMITS (dBm V/m)	AZ (°)	EL(M)
			HORIZ	VERT	HORIZ	VERT			
46.8826	1.1	16.3	20.3	19.6	37.7	37.0	40.0	320.4	1.0
140.31	1.8	13.1	16.0	19.0	30.9	33.9	43.5	82.3	1.0
187.08	2.2	10.5	18.0	16.0	30.7	28.7	43.5	67.4	1.0
233.85	2.2	12.8	6.5	4.7	21.5	19.7	46.0	286.5	1.0
280.62	2.3	12.9	6.6	6.5	21.8	21.7	46.0	135.4	1.0
327.39	2.7	14.1	9.8	7.4	26.6	24.2	46.0	26.4	1.0

- REMARKS** :
- *= Measurement does not apply for this frequency.
 - Uncertainty in radiated emission measured is <+/-4dB
 - Any departure from specification : N/A
 - Factor will include cable loss and correction factor.
 - Sample calculation

$$\text{Emission(dB}\mu\text{V/m)} = \text{Factor (dB)} + \text{Ant. Factor (dB/m)} + \text{reading (dB}\mu\text{V)}$$
 - AZ(°) : Turn table azimuth
 - EL(M) : Antenna height (Meter)
 - Mode 9

SIGNED BY TESTING ENGINEER : _____

6. BANDWIDTH

6 . 1 LIMIT

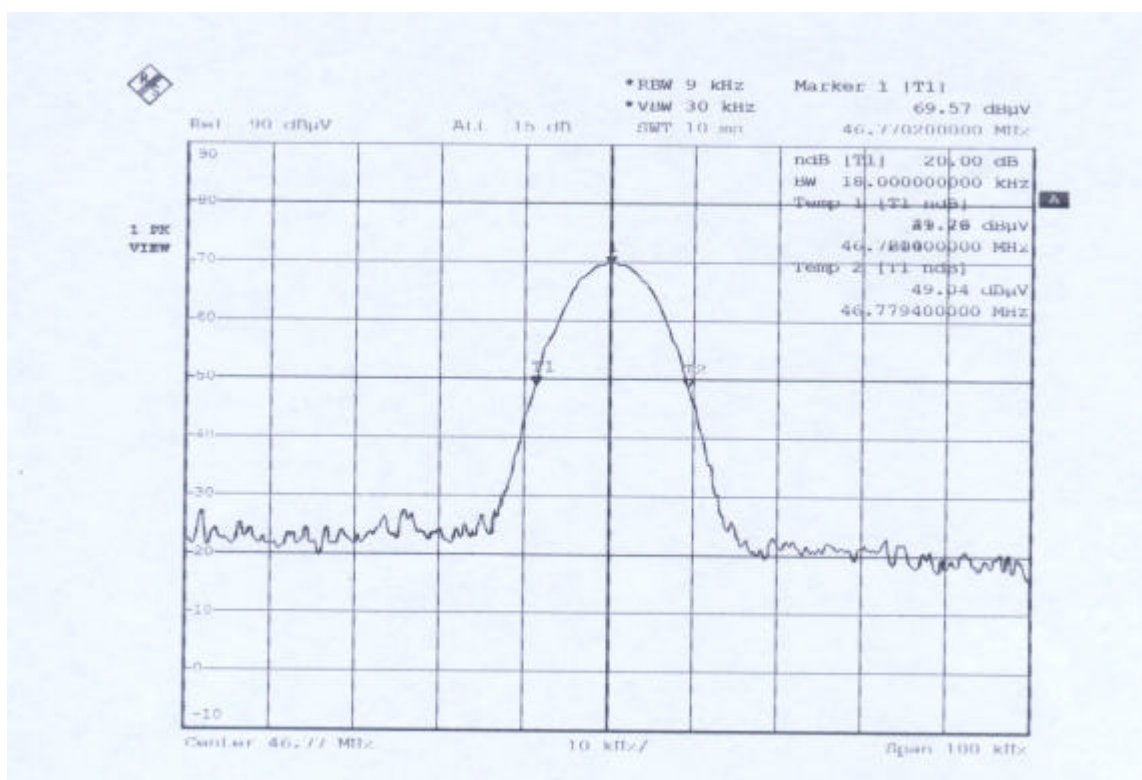
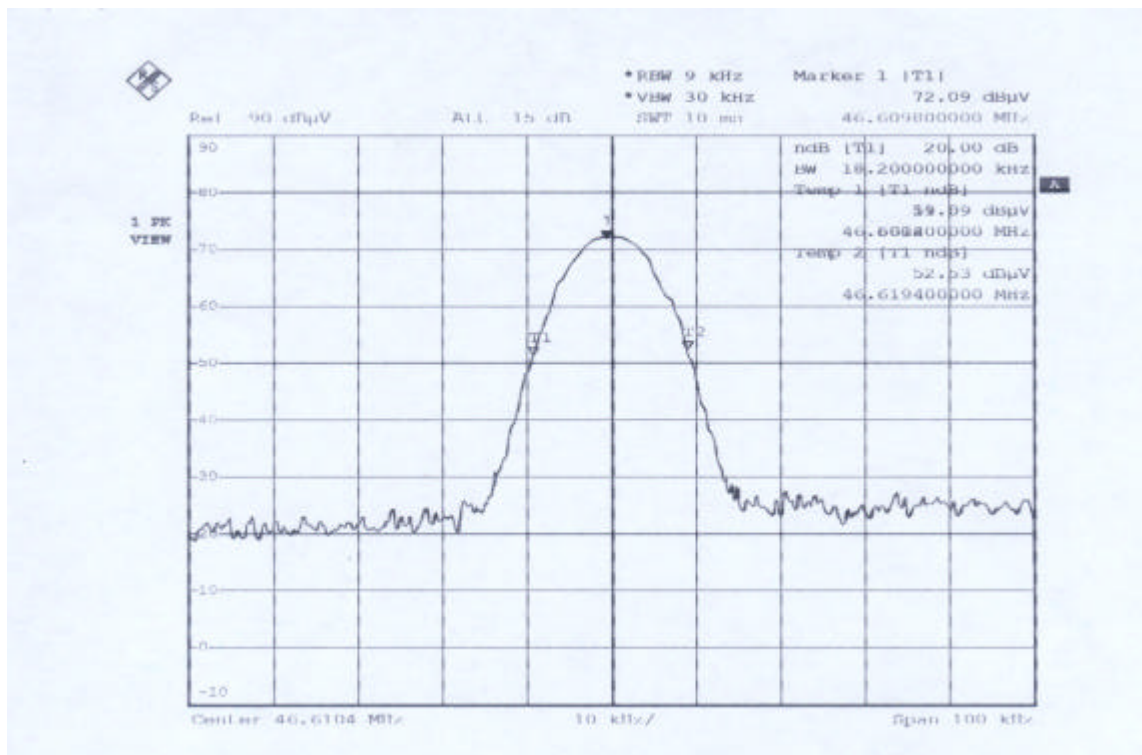
The emission shall be no wider than 0.5% of the center frequency.
Bandwidth is determined at the points 20dB down from the modulated carrier.

6 . 2 TEST RESULTS

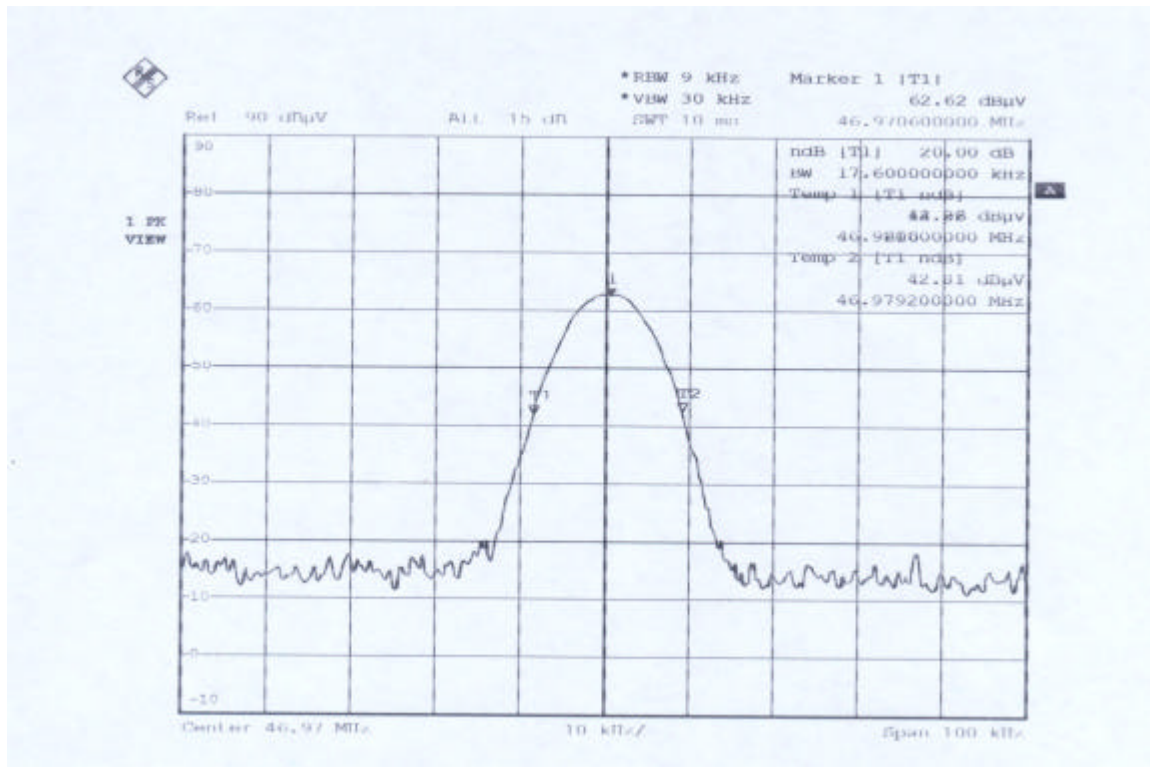
Mode		Channel	Operation frequency	20dB bandwidth
Mode 2	Base	1	46.6104MHz	18.20KHz
Mode 3		6	46.77MHz	18.00KHz
Mode 4		10	46.97MHz	17.60KHz
Mode 5	Handset	1	49.67MHz	17.40KHz
Mode 6		6	49.83MHz	17.20KHz
Mode 7		10	49.97MHz	17.80KHz
Mode 8	MP3	1	46.61MHz	22.60KHz
Mode 9		8	46.87MHz	25.40KHz

Please see attached plotter.

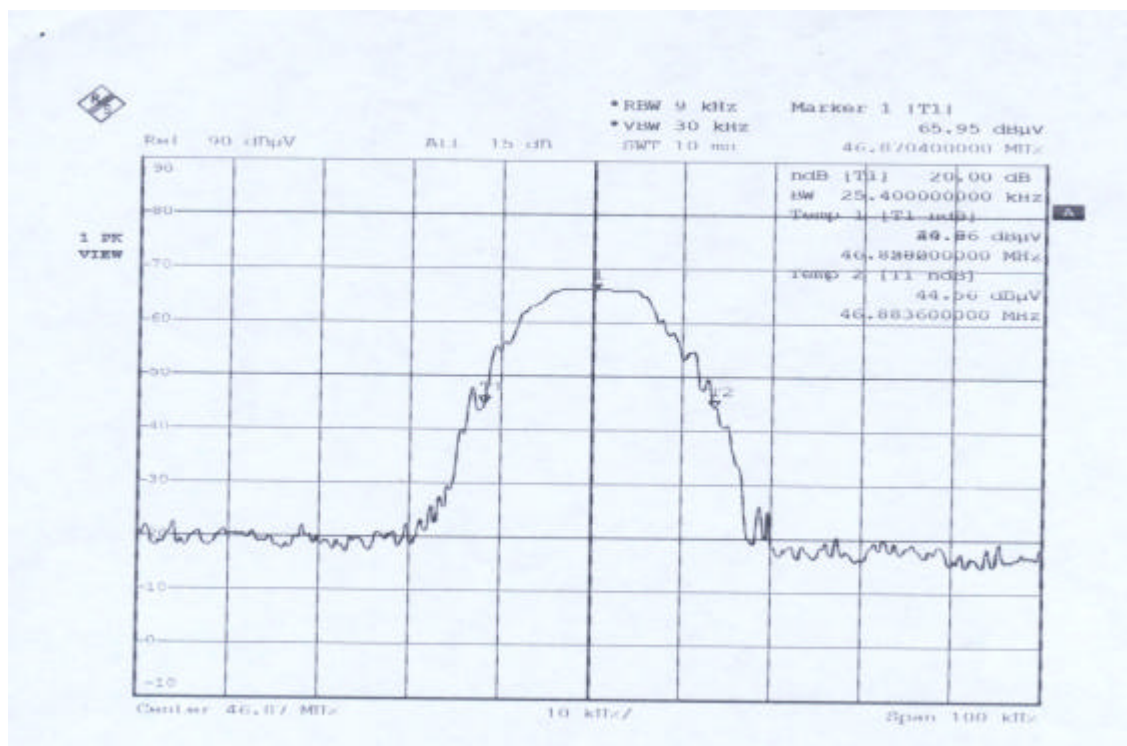
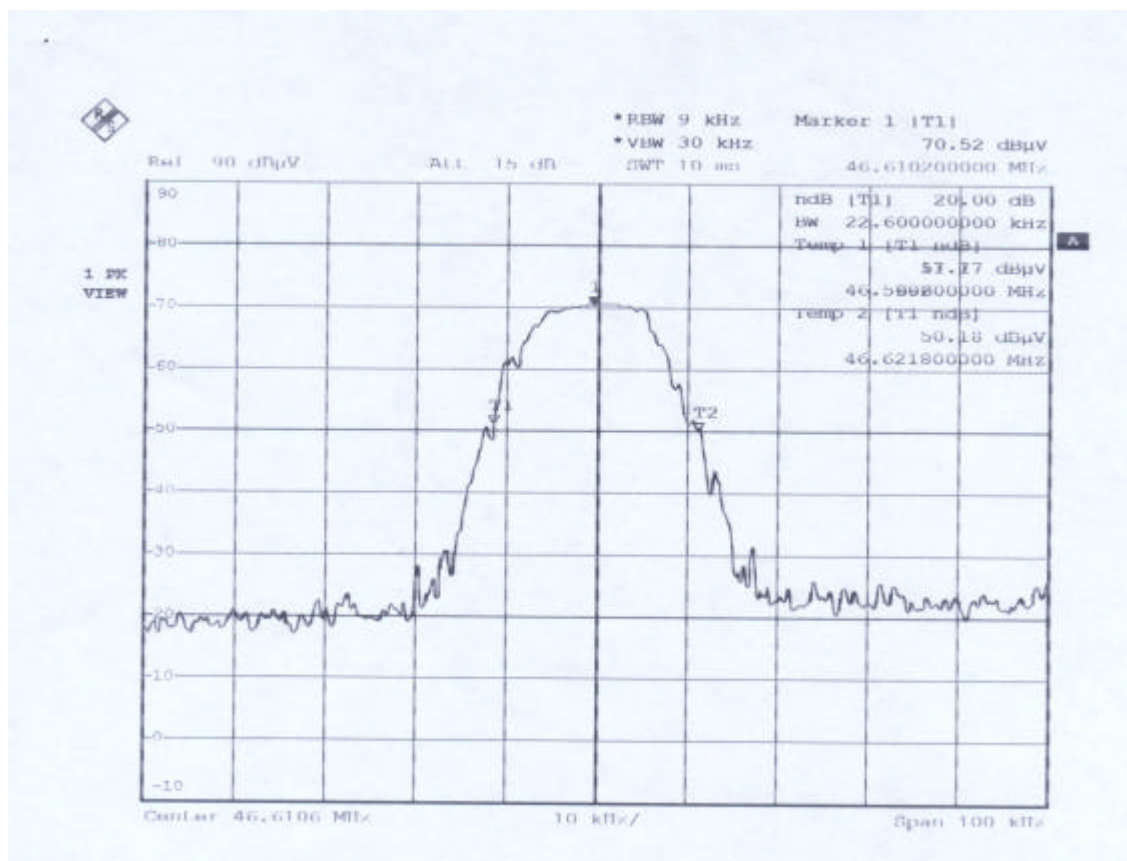
*Base : channel 1, 6



*Base : channel 10

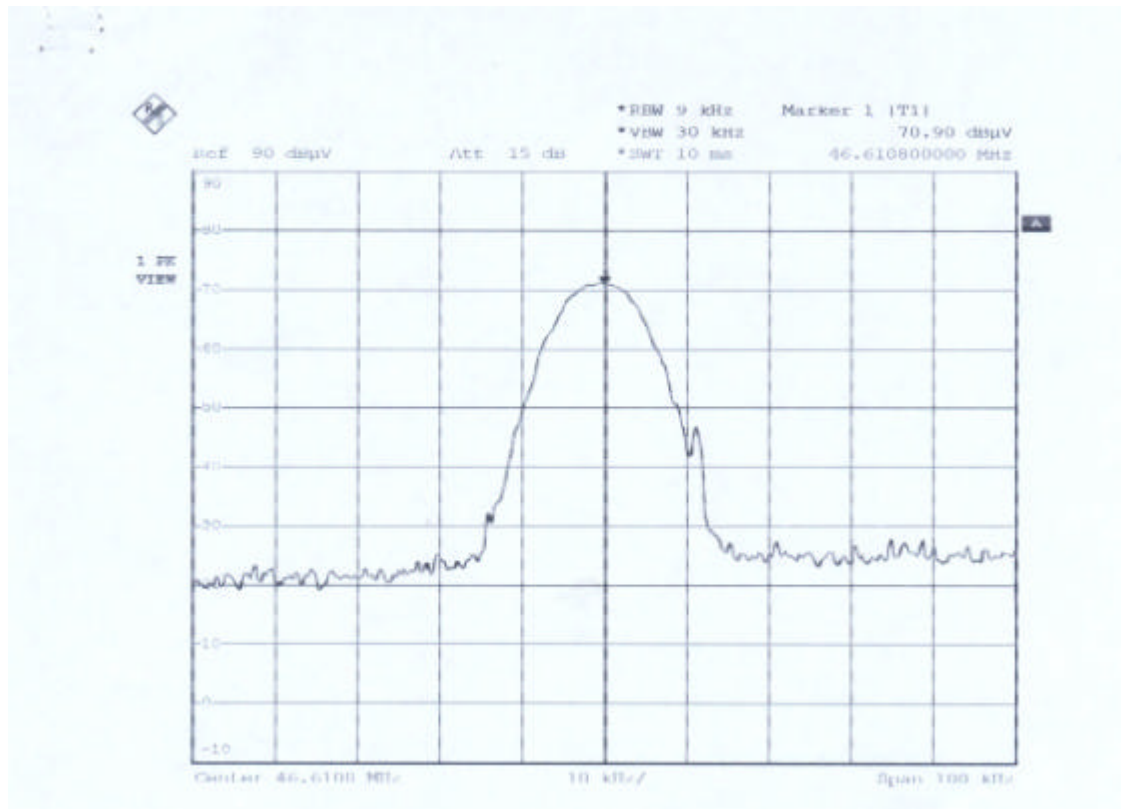


*MP3 : channel 1, 8

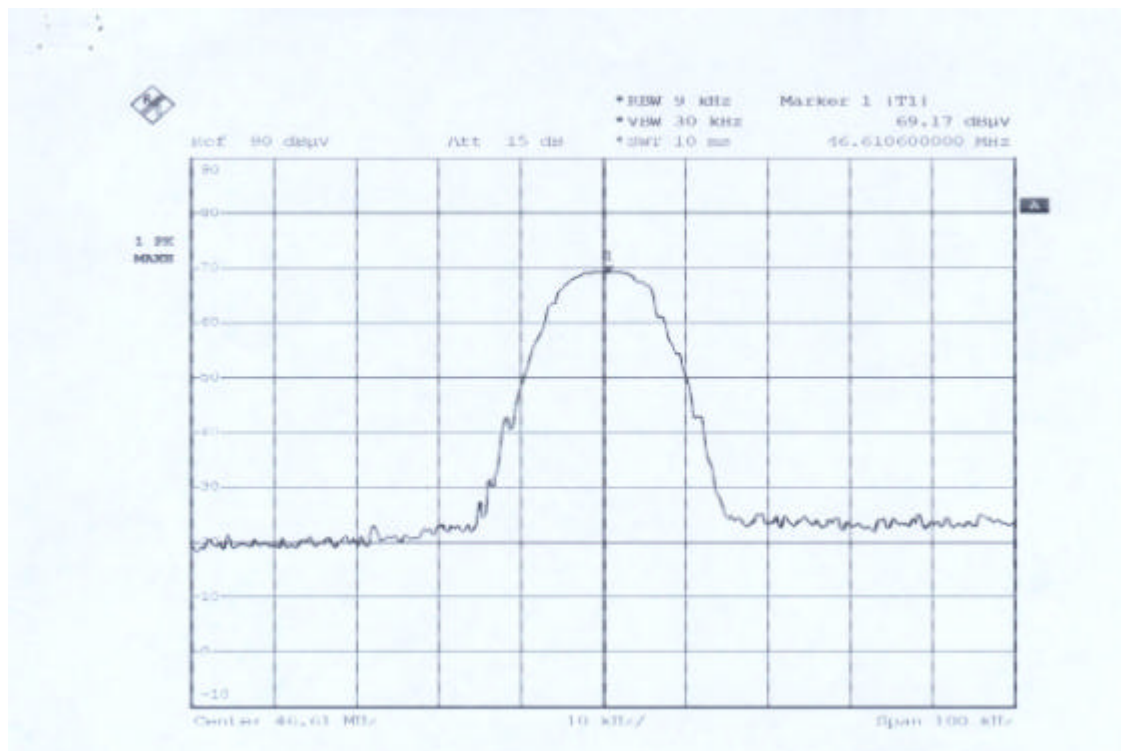
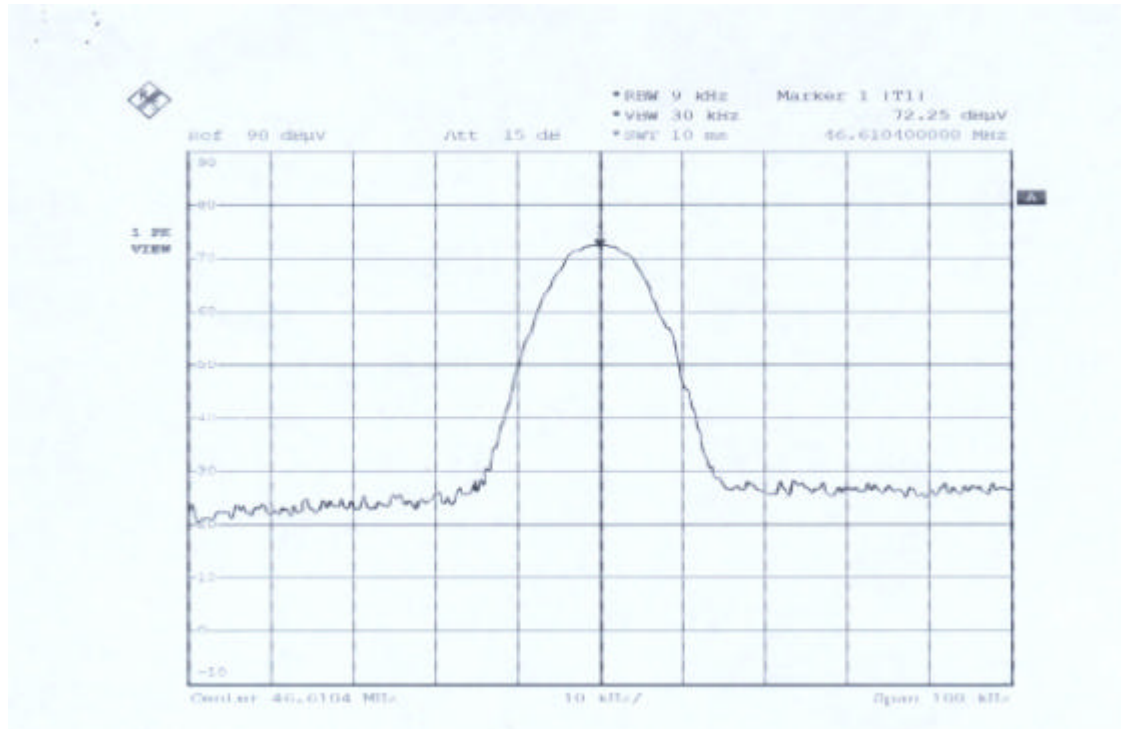


7. CHANGE THE VOLTAGE FROM -15% TO +15% TO CHECK THE FREQUENCY VARIATION

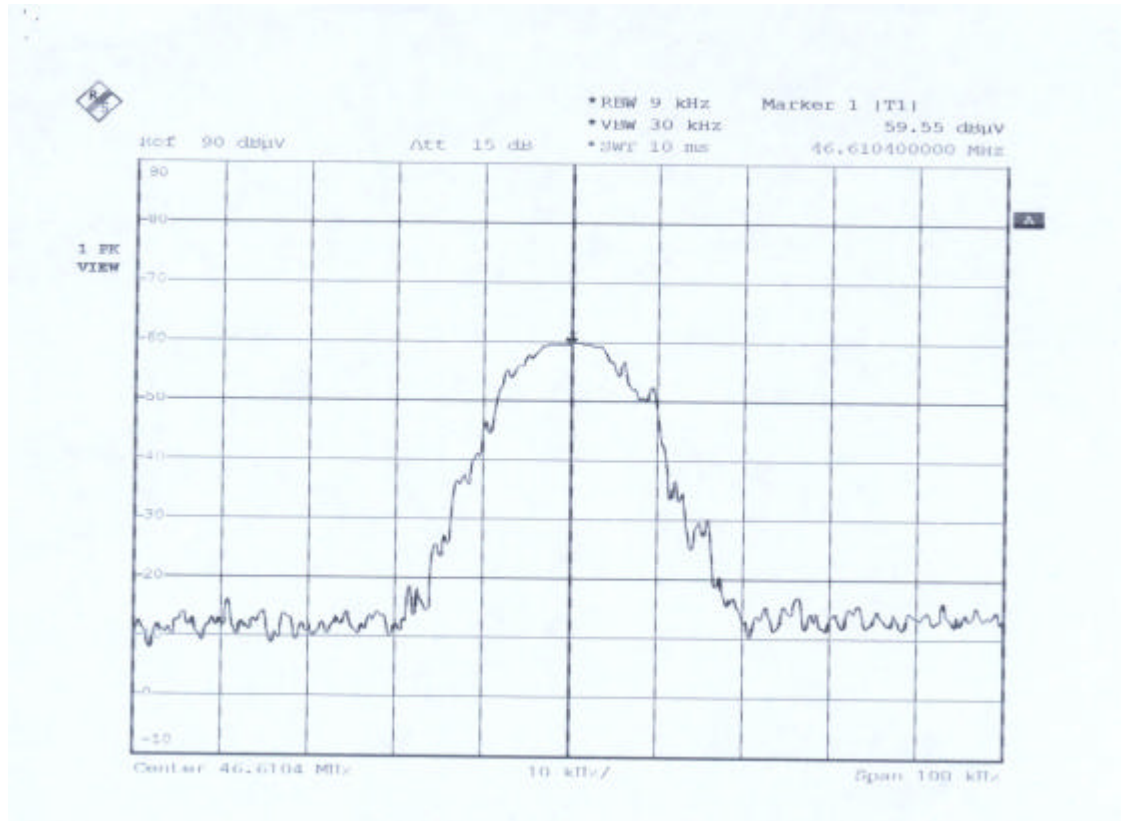
A. When voltage is 4.0V (Base)



- B. When voltage is 4.6V (change +15%) (Base)
C. When voltage is 3.4V (change -15%)

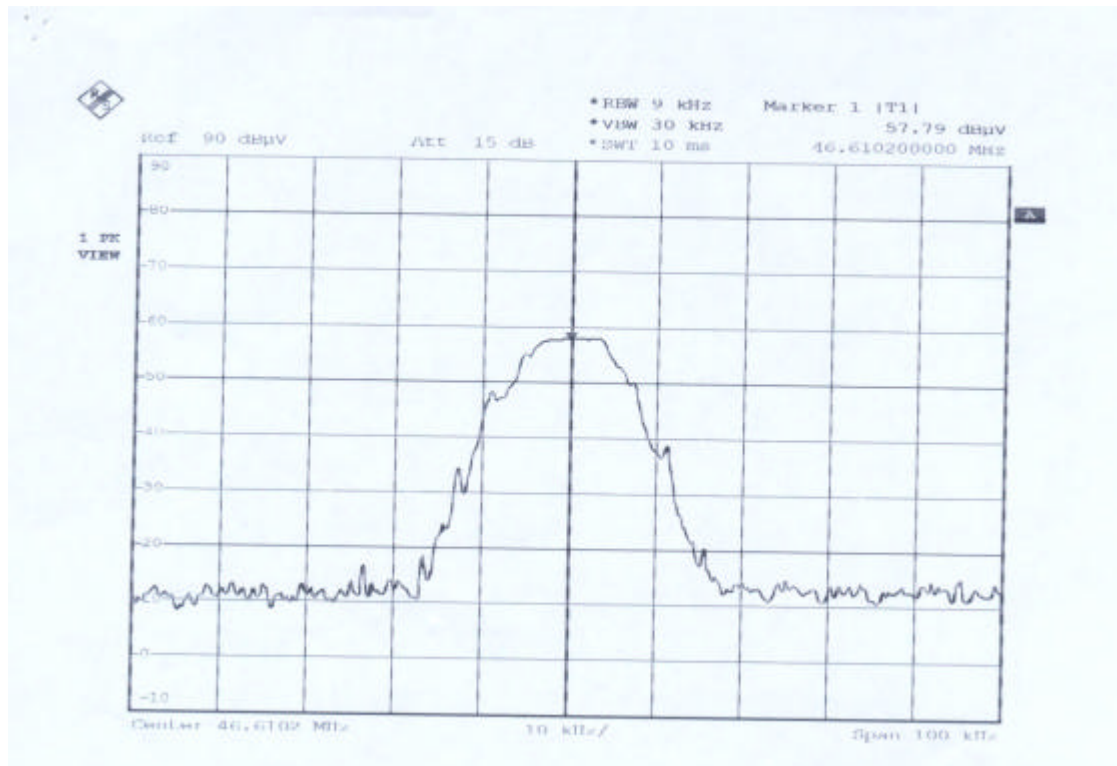
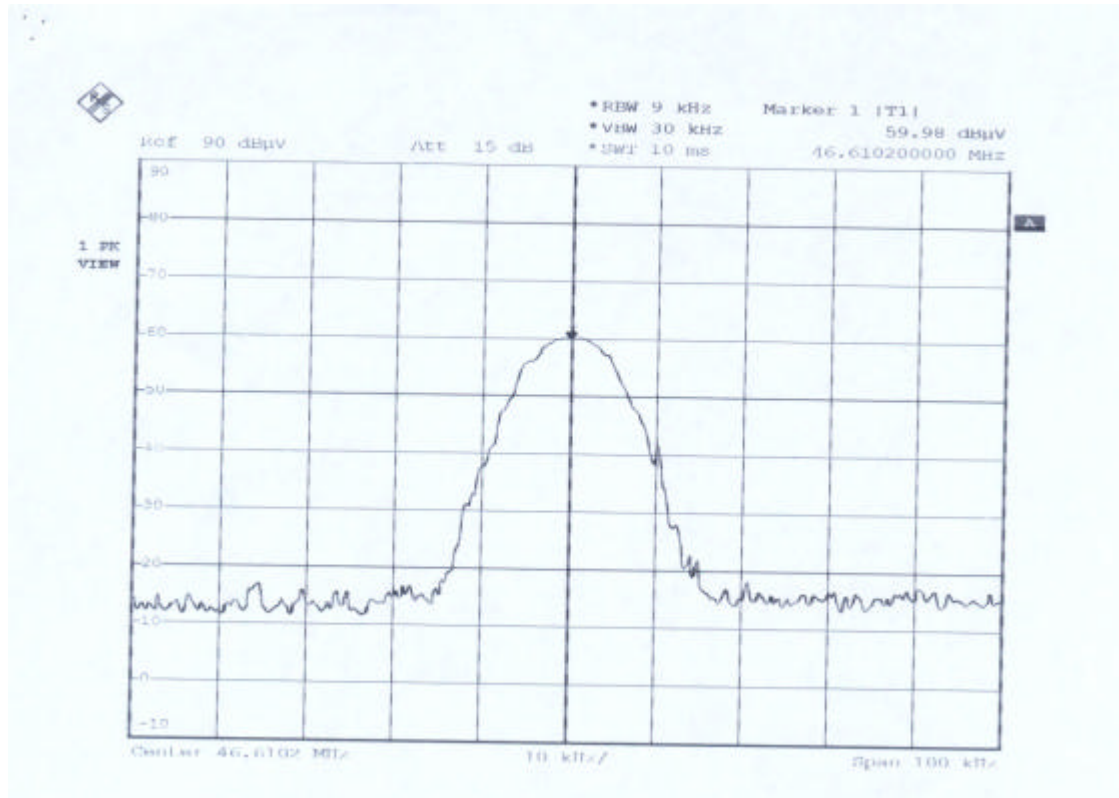


G. When voltage is 4.0V (MP3)



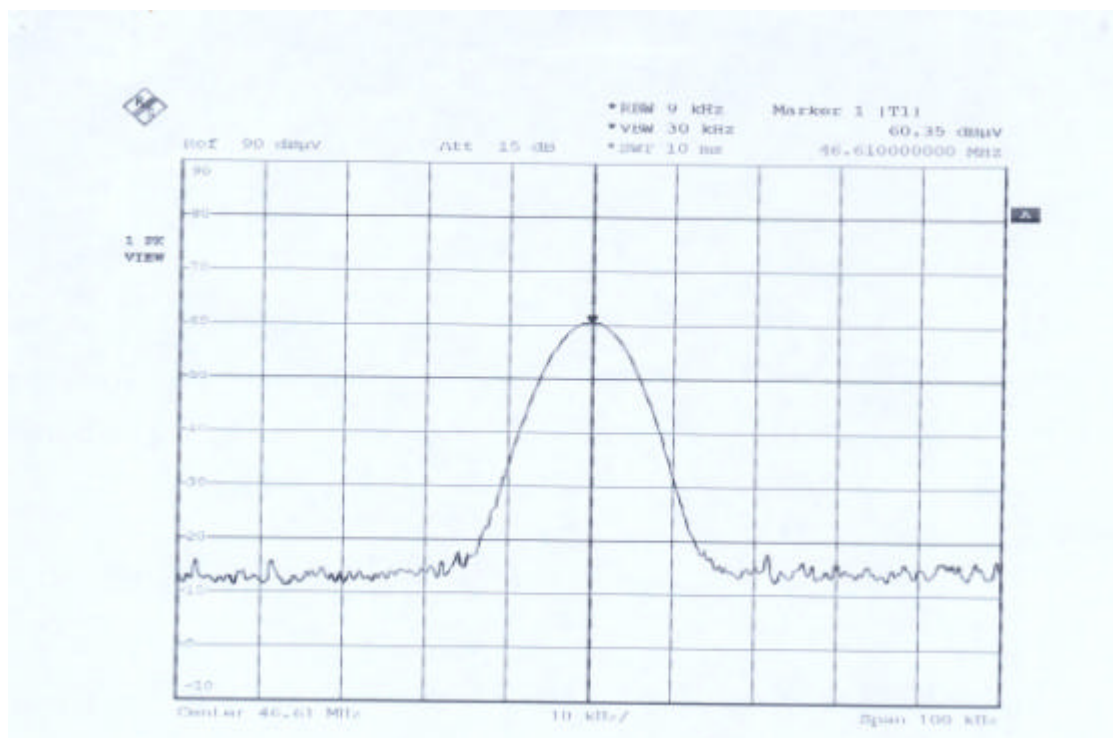
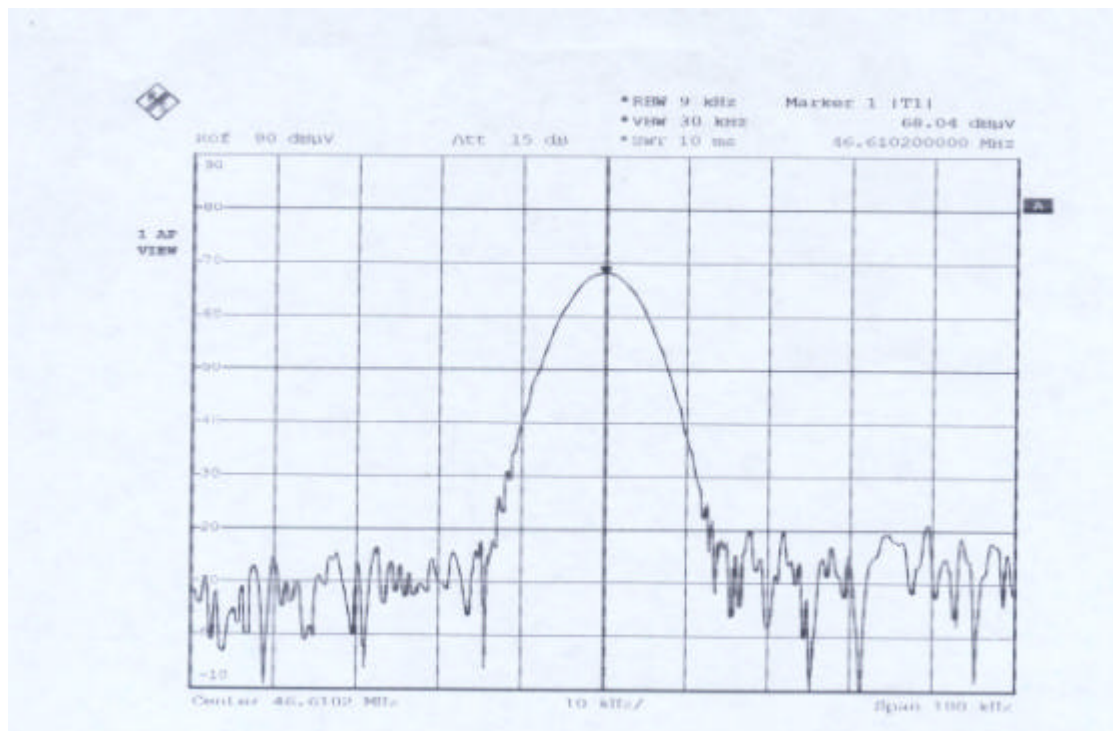
H. When voltage is 4.6V (change +15%) (MP3)

I. When voltage is 3.4V (change -15%)

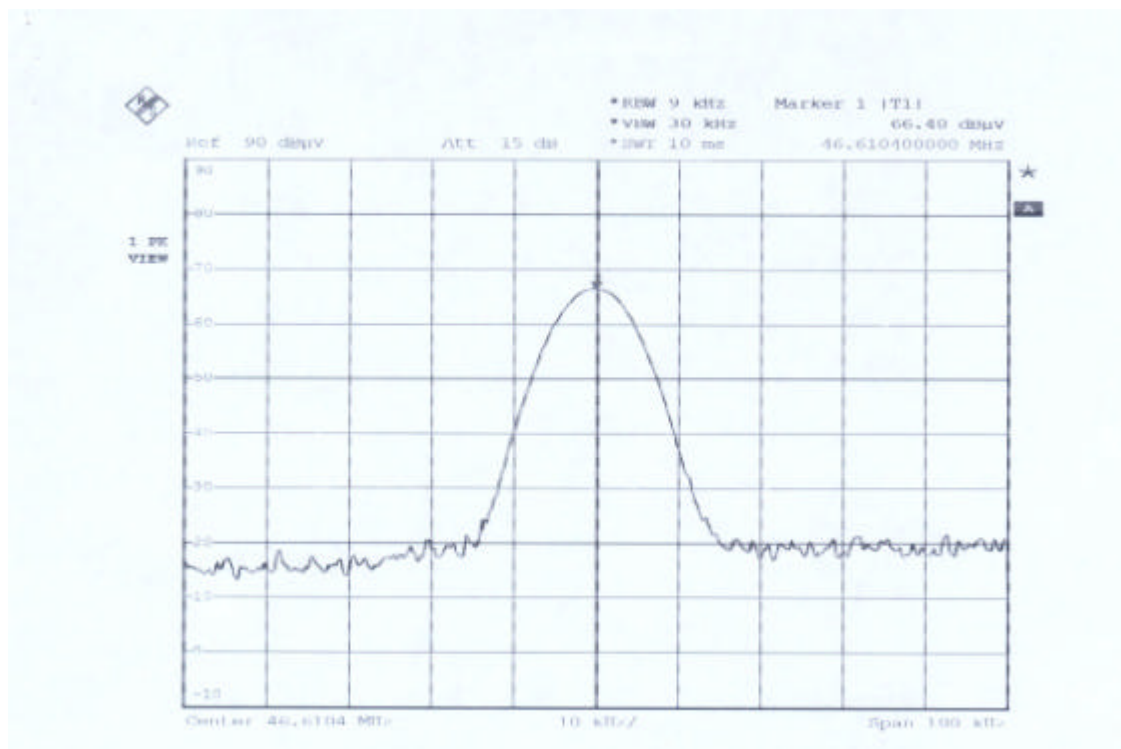
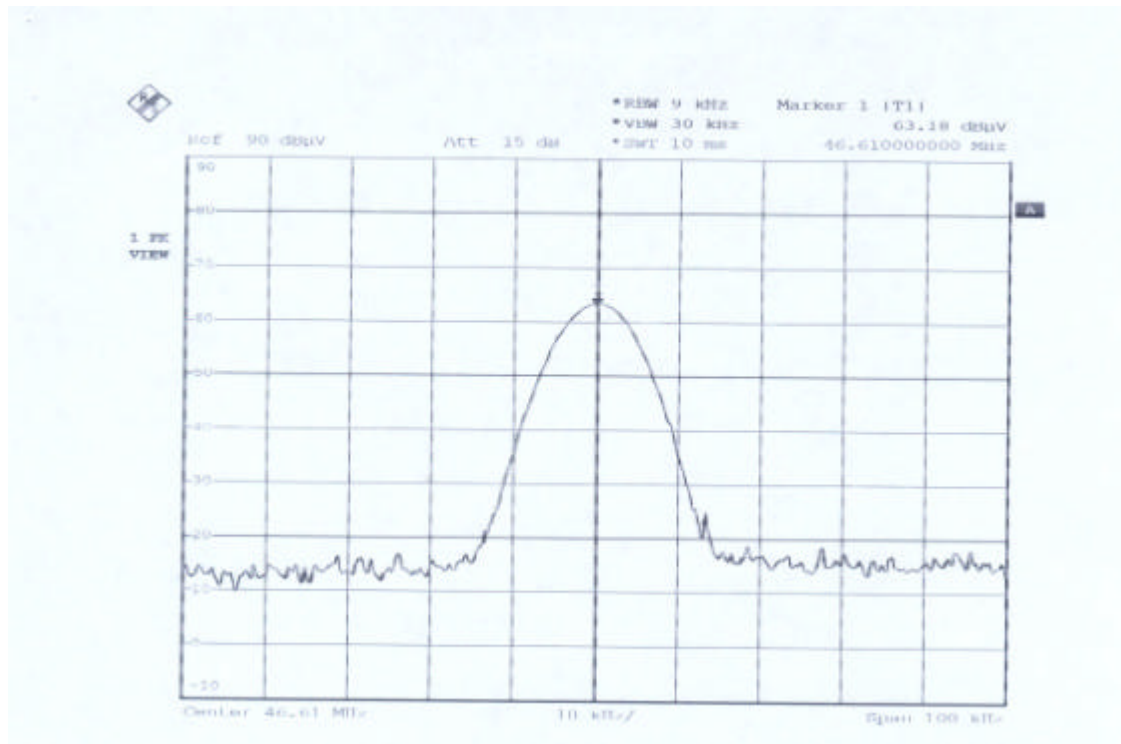


8. THE TEMPERATURE CHANGE TEST

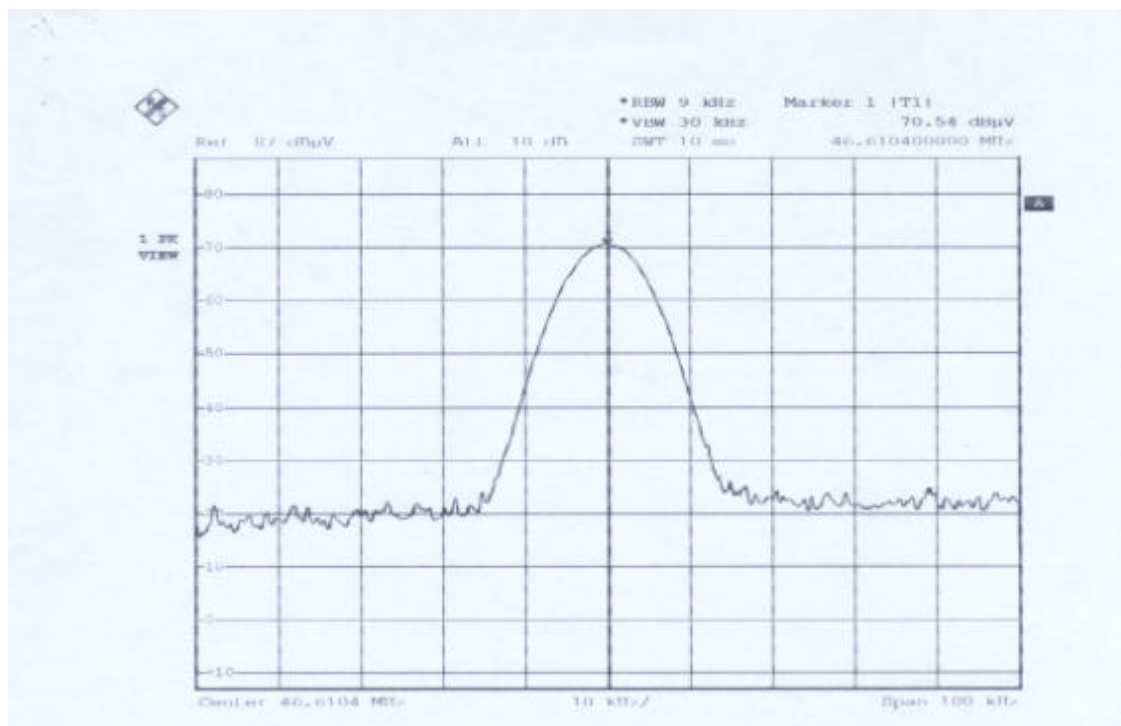
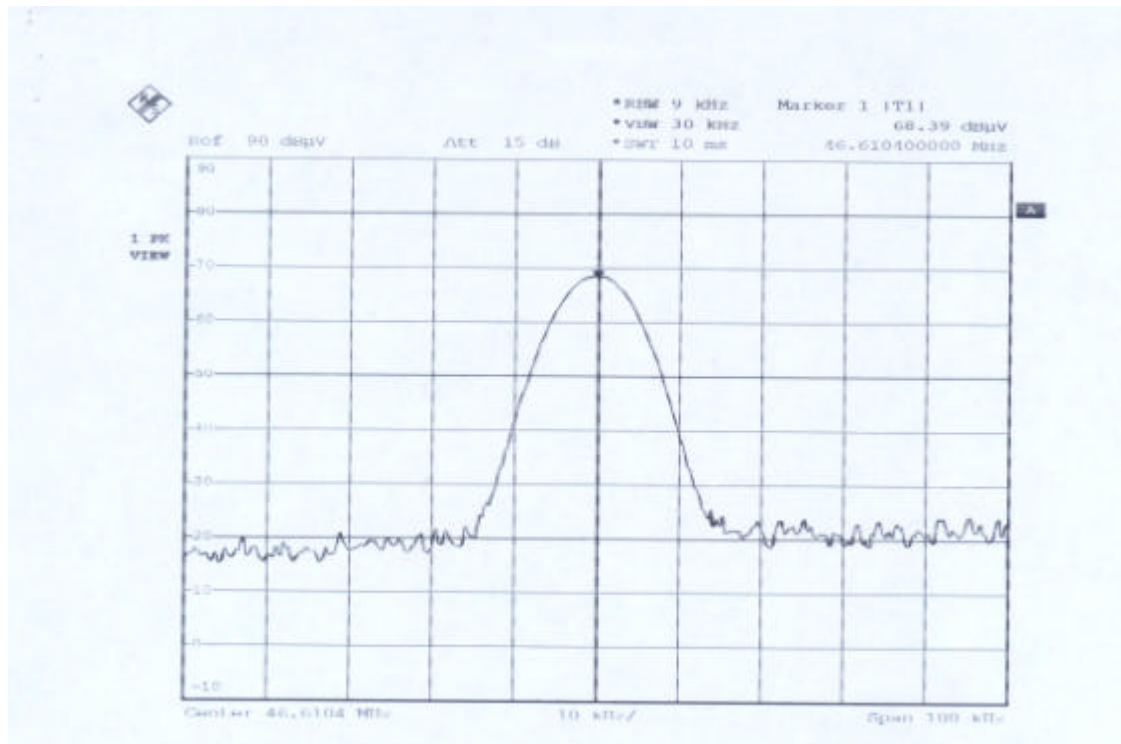
* Temperature is -20°C, -10°C (Base)



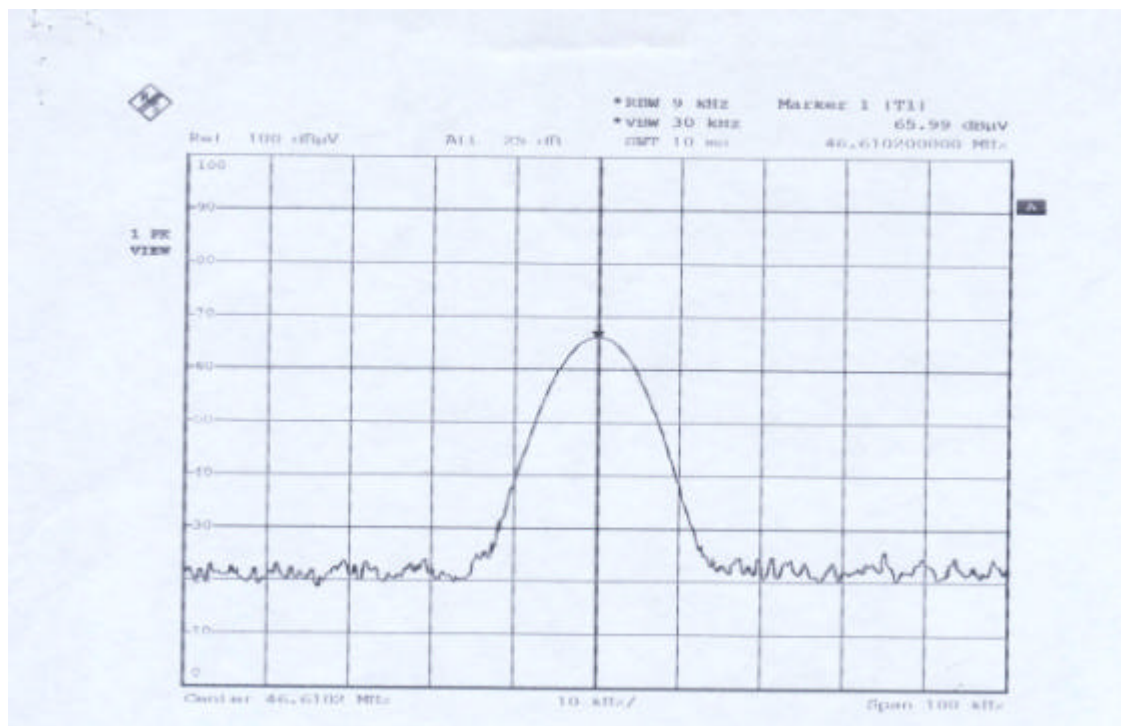
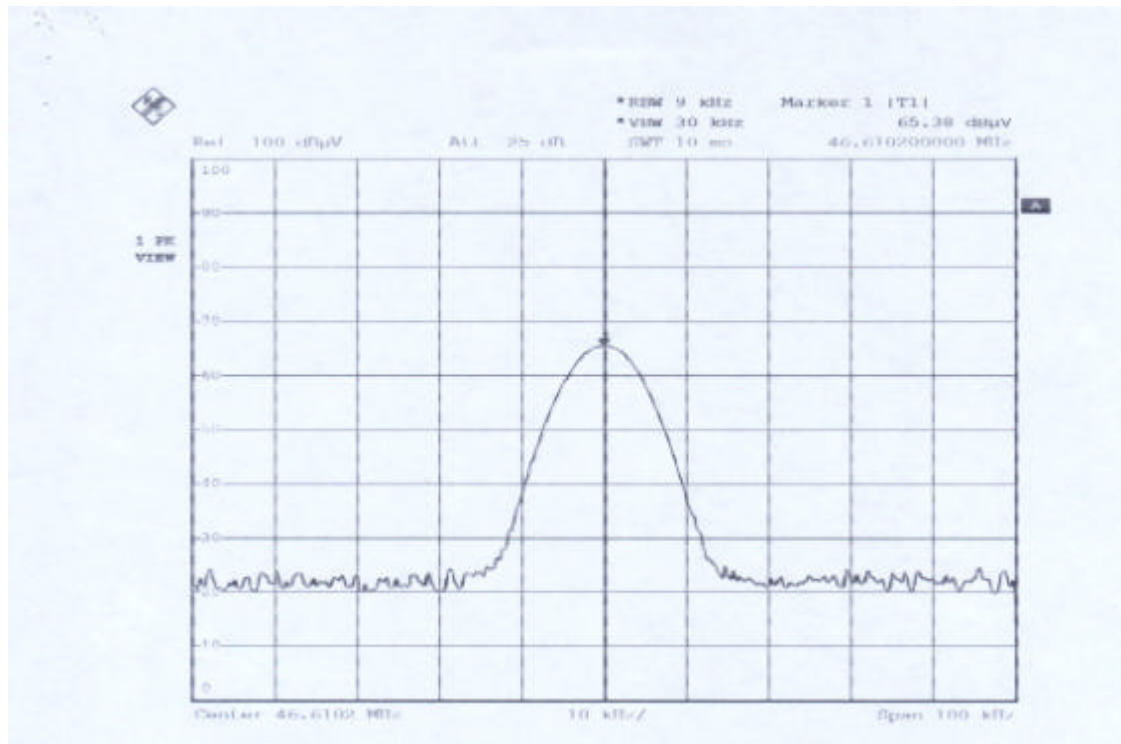
* Temperature is 0°C, 10°C (Base)



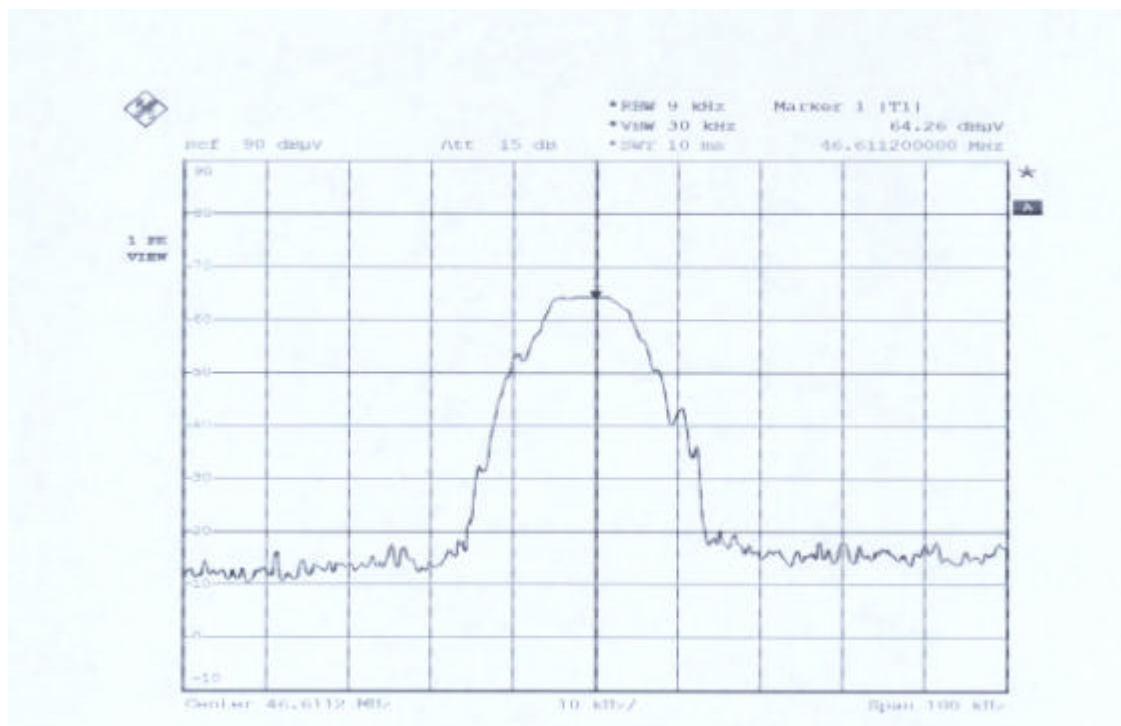
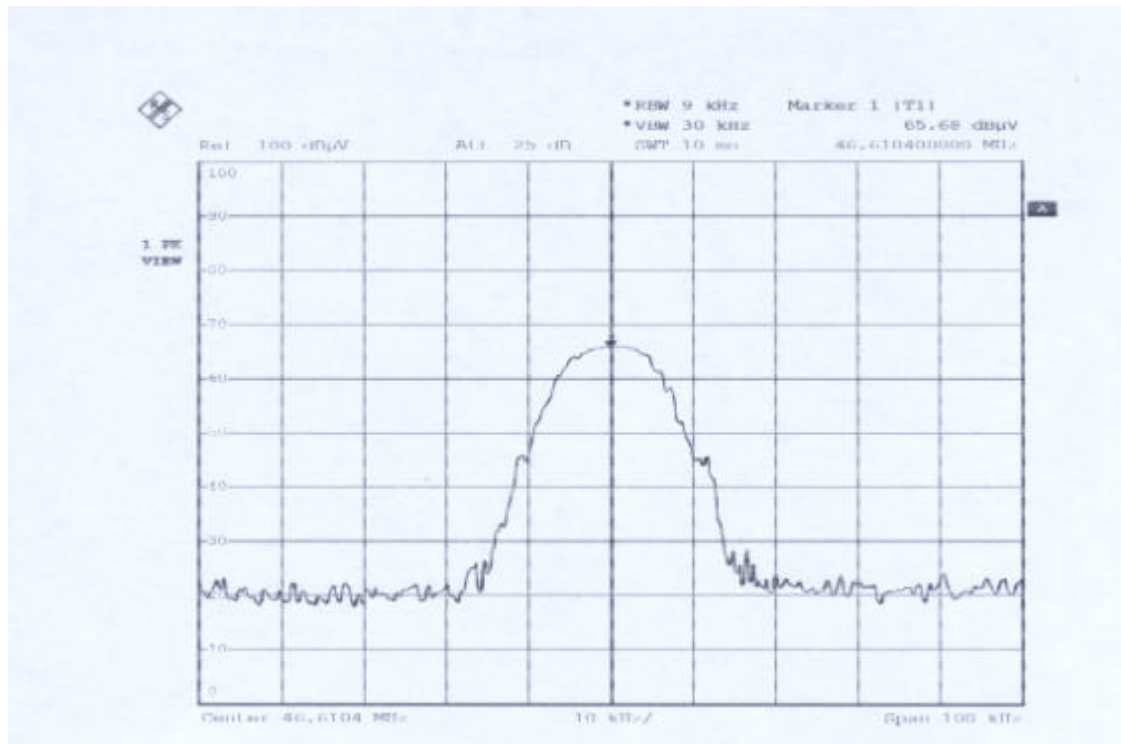
* Temperature is 20°C, 30°C (Base)



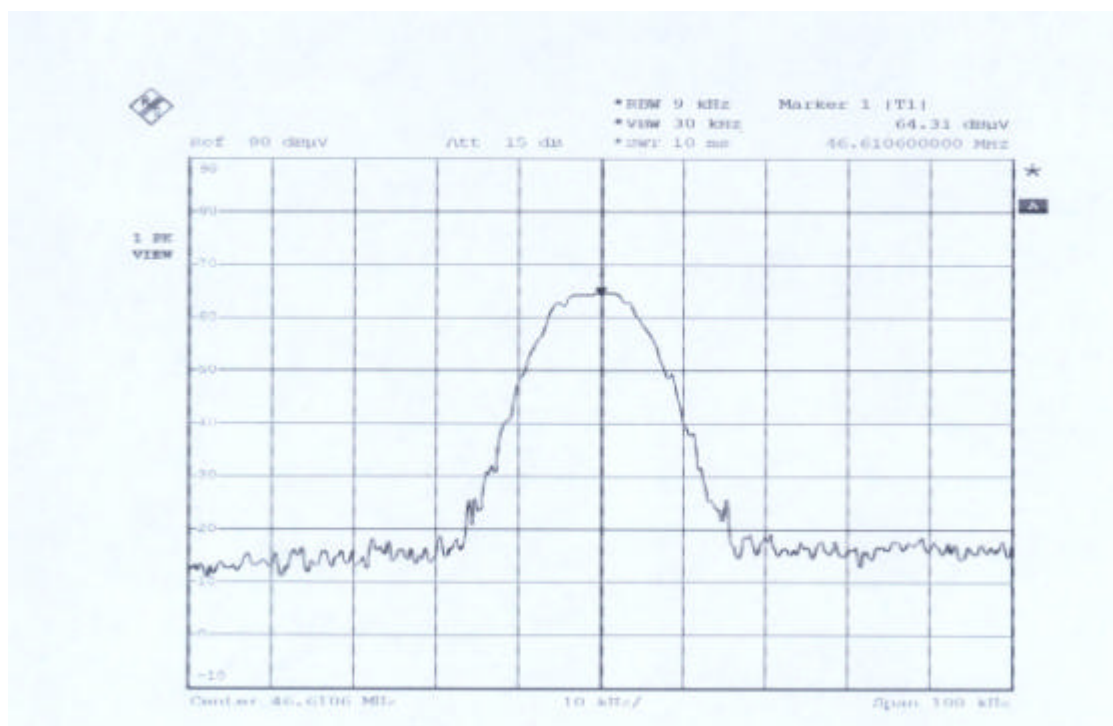
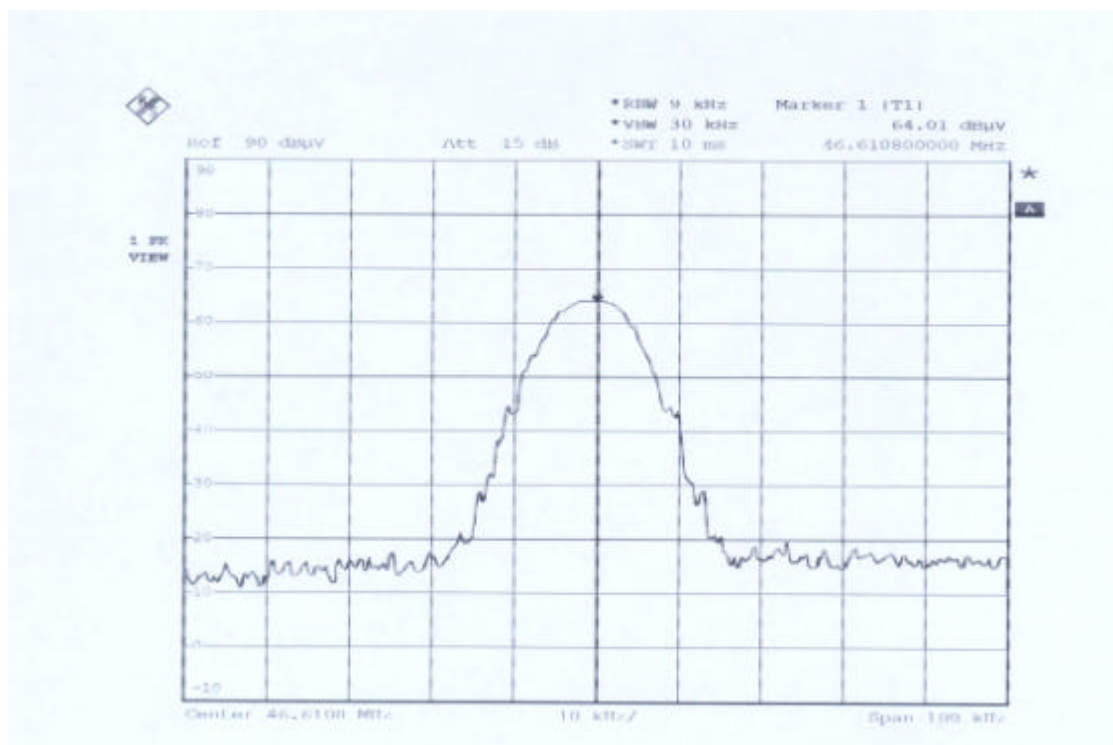
* Temperature is 40°C, 50°C (Base)



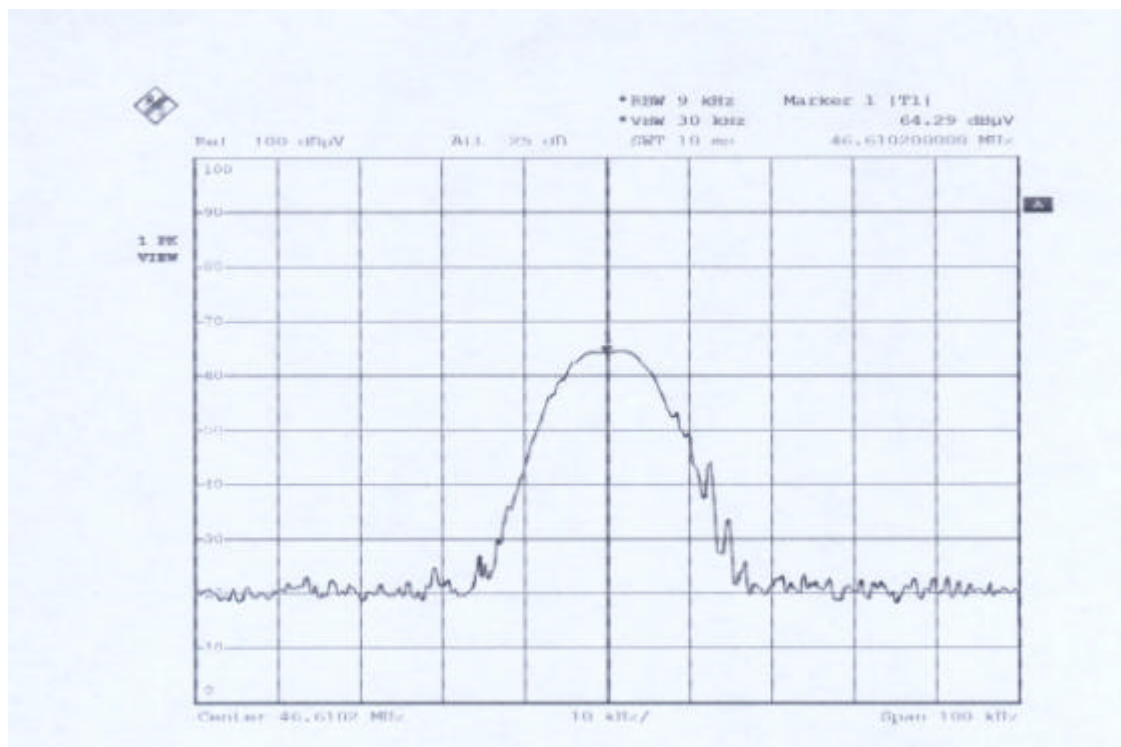
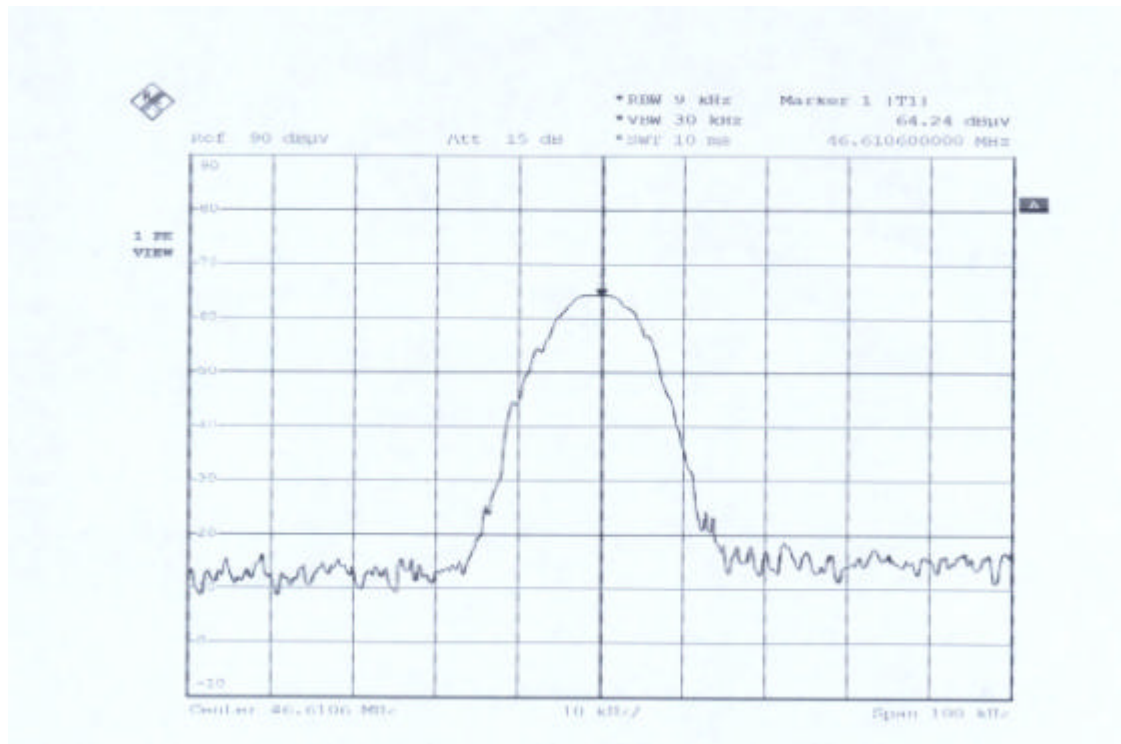
* Temperature is -20°C, -10°C (MP3)



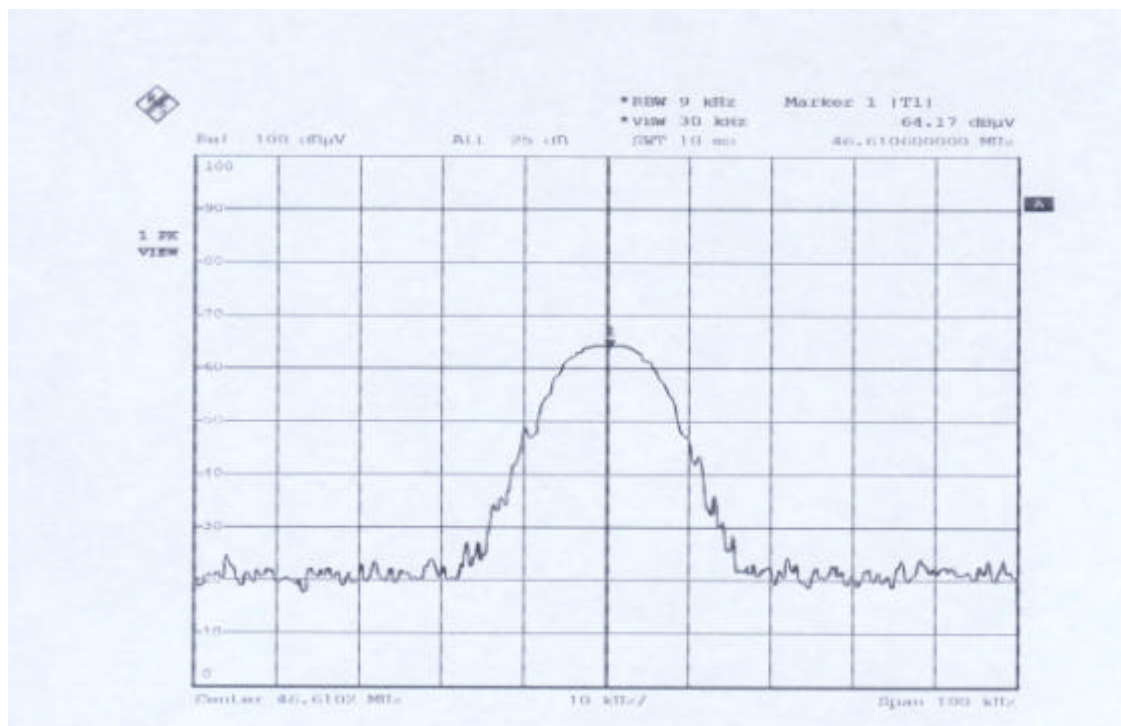
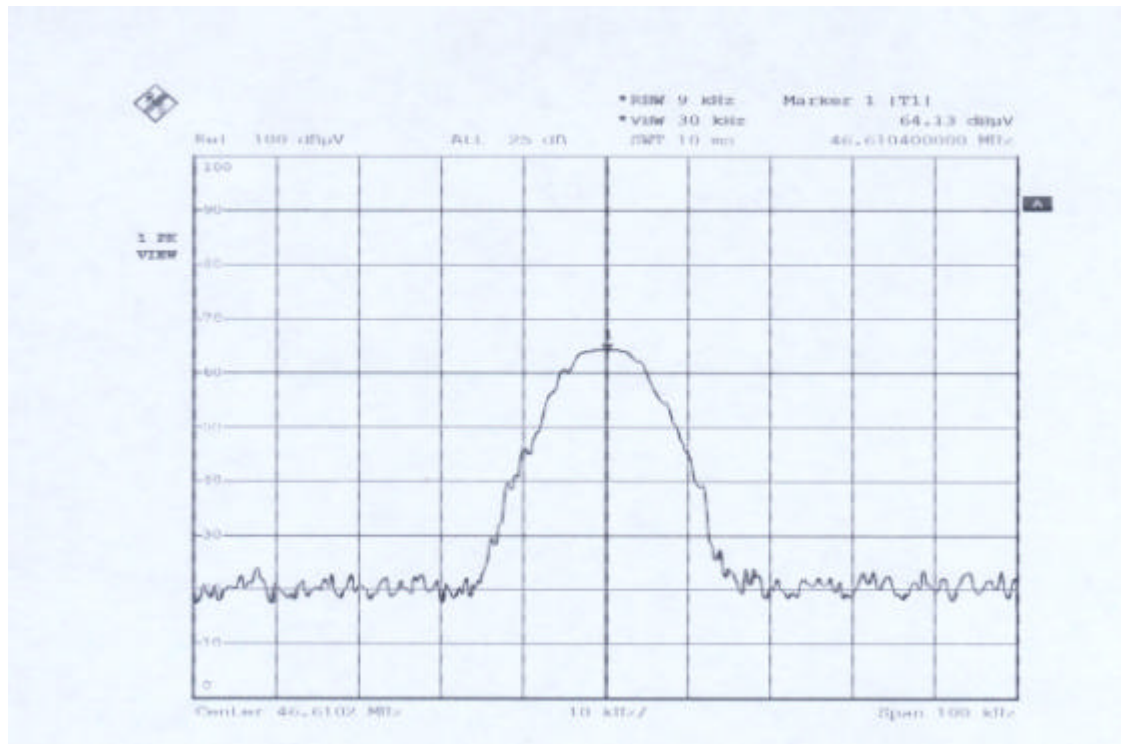
* Temperature is 0°C, 10°C (MP3)



* Temperature is 20°C, 30°C (MP3)



* Temperature is 40°C, 50°C (MP3)



9. VERIFY CHANNELS AND FREQUENCIES

Verify the Frequency Pairs

Channel	Base (MHz)	Handset (MHz)
1	46.610	49.670
2	46.630	49.845
3	46.670	49.860
4	46.710	49.770
5	46.730	49.875
6	46.770	49.830
7	46.830	49.890
8	46.870	49.930
9	46.930	49.990
10	46.970	49.970

Note : This is for sure that all frequencies are in 46.610MHz to 49.970MHz.

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.