

FCC Part 15 Subpart C

EMI TEST REPORT

of

E.U.T. : Wireless Hands-free Hand Set

FCC ID. : NWH1101102B

MODEL : WHH102B

Working Frequency : 49.860 MHz

for

APPLICANT : Innovative Wireless Products

ADDRESS : 5673 W. Las Positas Bl. #206 Pleasanton CA
94588 U.S.A.

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN

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Report Number : ET90R-11-044-01

TEST REPORT CERTIFICATION

Applicant : Innovative Wireless Products
5673 W. Las Positas Bl. #206 Pleasanton CA 94588 U.S.A.

Manufacturer : Aero Communication Co., Ltd.
2F, No. 121, Shing De Rd., San Chung City, Taipei Hsien, Taiwan,
R.O.C.

Description of EUT :

a) Type of EUT : Wireless Hands-free Hand Set
b) Trade Name : ----
c) Model No. : WHH102B
d) FCC ID : NWH1101102B
e) Working Frequency : 49.860 MHz
f) Power Supply : (1) Internal: DC 3.6V Li-ion Battery or
(2) External: AC Adaptor Charger Only
(Model: KAD12D0600300;
I/P: 120VAC, 60Hz,
O/P: 6VDC, 300mA)

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (1999)

I HEREBY CERTIFY THAT; The data shown in this report were made in accordance with the procedures given in ANSI C63.4 and the energy emitted by the device was found to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Issued Date : Dec. 20, 2001

Test Engineer : Tien Lu Liau
(Tien Lu Liau)

Approve & Authorized Signer : Will Yauo
Will Yauo, Manager
EMC Dept. II of ELECTRONICS
TESTING CENTER, TAIWAN

| <i>Table of Contents</i> | <i>Page</i> |
|---|-------------|
| 1. GENERAL INFORMATION..... | 1 |
| 1.1 PRODUCT DESCRIPTION | 1 |
| 1.2 CHARACTERISTICS OF DEVICE:..... | 1 |
| 1.3 TEST METHODOLOGY..... | 1 |
| 1.4 TEST FACILITY | 1 |
| 2. DEFINITION AND LIMITS..... | 2 |
| 2.1 DEFINITION | 2 |
| 2.2 RESTRICTED BANDS OF OPERATION..... | 2 |
| 2.3 LIMITATION..... | 2 |
| 2.4 LABELING REQUIREMENT | 3 |
| 2.5 USER INFORMATION..... | 3 |
| 3. RADIATED EMISSION MEASUREMENT | 4 |
| 3.1 APPLICABLE STANDARD..... | 4 |
| 3.2 MEASUREMENT PROCEDURE..... | 4 |
| 3.3 TEST DATA..... | 5 |
| 3.4 FIELD STRENGTH CALCULATION..... | 7 |
| 3.5 RADIATED TEST EQUIPMENT | 8 |
| 3.6 MEASURING INSTRUMENT SETUP..... | 8 |
| 3.7 RADIATED MEASUREMENT PHOTOS..... | 9 |
| 4 CONDUCTED EMISSION MEASUREMENT..... | 10 |
| 4.1 STANDARD APPLICABLE | 10 |
| 4.2 MEASUREMENT PROCEDURE..... | 10 |
| 4.3 CONDUCTED EMISSION DATA | 11 |
| 4.4 RESULT DATA CALCULATION | 11 |
| 4.5 CONDUCTED MEASUREMENT EQUIPMENT | 11 |
| 4.6 PHOTOS OF CONDUCTION MEASURING SETUP..... | 12 |
| 5 ANTENNA REQUIREMENT..... | 13 |
| 5.1 STANDARD APPLICABLE | 13 |
| 5.2 ANTENNA CONSTRUCTION..... | 13 |
| 6 EMISSION BAND MEASUREMENT..... | 14 |
| 6.1 STANDARD APPLICABLE | 14 |
| 6.2 MEASUREMENT PROCEDURE..... | 14 |
| 6.3 MEASUREMENT EQUIPMENT..... | 14 |
| 6.4 MEASUREMENT DATA | 14 |
| APPENDIX 1 : PLOTTED DATA FOR CONDUCTED EMISSION | 15 |
| APPENDIX 2 : PLOTTED DATA FOR EMISSION BAND MEASUREMENT..... | 16 |

1. GENERAL INFORMATION

1.1 Product Description

| | |
|----------------------|---|
| a) Type of EUT | : Wireless Hands-free Hand Set |
| b) Trade Name | : ---- |
| c) Model No. | : WHH102B |
| d) FCC ID | : NWH1101102B |
| e) Working Frequency | : 49.860 MHz |
| f) Power Supply | : (1) Internal: DC 3.6V Li-ion Battery or (2) External: AC Adaptor Charger Only (Model: KAD12D0600300; I/P: 120VAC, 60Hz, O/P: 6VDC, 300mA) |

1.2 Characteristics of Device:

1. Handsfree & duplex operation.
2. RF Wireless ID design, high quality and plug-in mini kit.
3. Automatic channel scanner.
4. Including basic & simple, mini, delicate and lightweight models.
5. Hook-on and backpneck style designs are in rogue, suit for all type.
6. The headband is designed to convert into ear-hooks.
7. The ear-hooks design that fits over the ear and comfortable to wear.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in chapter 13 of ANSI C63.4.

The Wireless Hands-free Hand Set under test was operated in its normal operating mode for the purpose of the measurements.

The receiving antenna polarized horizontally was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the Wireless Hands-free Hand Set under test.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No. 34, Lin 5, Ding Fu Tsun, Linkou Hsiang, Tapei Hsien, Taiwan 244, R.O.C.

This site has been fully described in a report submitted to your office, and accepted in a letter dated Feb. 10, 2000.

2. DEFINITION AND LIMITS

2.1 Definition

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

2.2 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|-------------------|-----------------------|---------------|-------------|
| 0.090 - 0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.25 |
| 0.495 - 0.505 ** | 16.69475 - 16.69525 | 608-614 | 5.35-5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475 - 156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2655-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3360-4400 | Above 38.6 |
| 13.36-13.41 | | | |

Remark “**” : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2.3 Limitation

(1) Conducted Emission Limits :

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the conducted limit is the following:

| Frequency (MHz) | Emission (μ V) | Emission (dB μ V) |
|----------------------|-------------------------|----------------------------|
| 0.45 - 30.0 | 250 | 48.0 |

(2) Radiated Emission Limits :

According to 15.235 the field strength of emissions from intentional radiators operated under these frequency bands shall not exceed the following:

| Fundamental Frequency (MHz) | Field Strength of Fundamental µV/meter | dBµV/meter |
|--------------------------------|---|------------|
| 49.82-49.90 | 10000 | 80 |

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209, as following table:

| Other Frequencies (MHz) | Field Strength of Fundamental µV/meter | dBµV/meter |
|----------------------------|---|------------|
| 30 - 88 | 100 | 40.0 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46.0 |
| Above 960 | 500 | 54.0 |

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

(3) Antenna Requirement :

For intentional device, according to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

(4) Emissions Band Limits :

According to 15.235(b), the field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in § 15.209, whichever permits the higher emission levels

2.4 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.5 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

3. RADIATED EMISSION MEASUREMENT

3.1 Applicable Standard

1. The field strength of any emission within this band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.
2. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.

3.2 Measurement Procedure

A. Preliminary Measurement For Portable Devices

For portable devices, the following procedure was performed to determine the maximum emission axis of EUT:

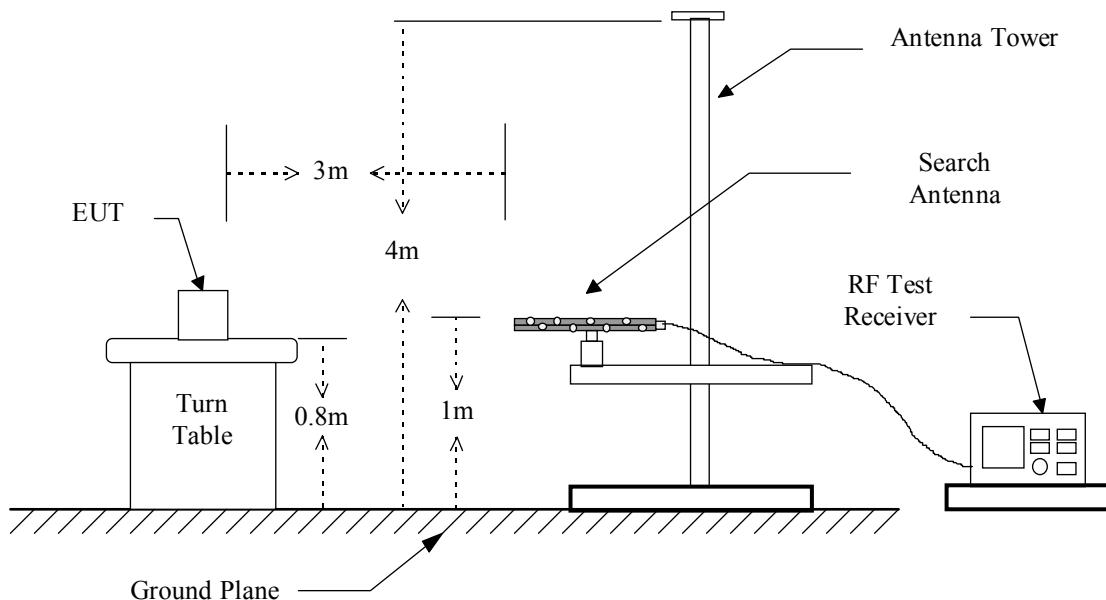
1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

B. Final Measurement

1. Setup the configuration per figure 1 and 2 for frequencies measured below and above 1 GHz respectively. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
5. Repeat step 4 until all frequencies need to be measured were complete.

6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Check the three frequencies of highest emission with varying the placement of cables (if any) associated with EUT to obtain the worse case and record the result.

Figure 1 : Frequencies measured below 1 GHz configuration



3.3 Test Data

A. Fundamental Frequency

Operation Mode : TX/RX

Operation Frequency : TX: 49.860 MHz, RX: 40.680 MHz

Test Date : Dec. 20, 2001 Temperature : 22 °C Humidity: 68 %

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Deg. (Deg.) | Ant. High (m) |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|----------------|-------------------------|---------------------|
| | H | | V | | | Peak | Ave | Peak | Ave | | | |
| 49.860 | 82.4 | 81.3 | 95.2 | 93.4 | -14.1 | 81.1 | 79.3 | 100.0 | 80.0 | -0.7 | 180 | 1.00 |

Note : 1. Item of margin shown in above table refer to average limit.

2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.

3. Remark “---” means that the emissions level is too low to be measured.

4. Item “Margin” referred to Average limit while there is only peak result.

5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

B. Harmonic & Spurious

Operation Mode : TX/RX

Test Date: Dec. 20, 2001

Temperature : 22 °C

Humidity: 68 %

| Frequency (MHz) | Meter Reading (dBuV) | | Corrected Factor (dB) | Result @3m (dBuV/m) | Limit @3m (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (m) |
|--------------------|-------------------------|-----|-----------------------------|---------------------------|--------------------------|----------------|---------------------------|------------------|
| | H | V | | | | | | |
| *40.681 | --- | --- | -12.0 | --- | 40.0 | --- | --- | --- |
| *81.362 | --- | --- | -14.9 | --- | 40.0 | --- | --- | --- |
| *122.043 | --- | --- | -10.9 | --- | 43.5 | --- | --- | --- |
| *162.724 | --- | --- | -9.4 | --- | 43.5 | --- | --- | --- |
| *203.405 | --- | --- | -6.9 | --- | 43.5 | --- | --- | --- |
| *244.086 | --- | --- | -4.3 | --- | 46.0 | --- | --- | --- |
| *284.767 | --- | --- | -2.4 | --- | 46.0 | --- | --- | --- |
| *325.448 | --- | --- | -6.8 | --- | 46.0 | --- | --- | --- |
| *366.129 | --- | --- | -7.5 | --- | 46.0 | --- | --- | --- |
| *406.810 | --- | --- | -6.2 | --- | 46.0 | --- | --- | --- |
| 99.720 | --- | --- | -13.9 | --- | 43.5 | --- | --- | --- |
| 149.580 | --- | --- | -10.0 | --- | 43.5 | --- | --- | --- |
| 199.440 | --- | --- | -7.2 | --- | 43.5 | --- | --- | --- |
| 249.300 | --- | --- | -3.9 | --- | 46.0 | --- | --- | --- |
| 299.160 | --- | --- | -0.9 | --- | 46.0 | --- | --- | --- |
| 349.020 | --- | --- | -10.4 | --- | 46.0 | --- | --- | --- |
| 398.880 | --- | --- | -6.4 | --- | 46.0 | --- | --- | --- |
| 448.740 | --- | --- | -5.6 | --- | 46.0 | --- | --- | --- |
| 498.600 | --- | --- | -4.4 | --- | 46.0 | --- | --- | --- |

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. Item “Margin” referred to Average limit while there is only peak result.
3. Remark “*” means that the emission frequency is produced from local oscillator.
4. The expanded uncertainty of the radiated emission tests is 3.53 dB.

C. Other Emission

Operation Mode : Charging

Test Date: Dec. 20, 2001 Temperature : 22 °C Humidity: 68 %

| Frequency (MHz) | Meter Reading (dBuV) | | Corrected Factor (dB) | Result @3m (dBuV/m) | Limit @3m (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (m) |
|--------------------|-------------------------|-----|-----------------------------|---------------------------|--------------------------|----------------|---------------------------|------------------|
| | H | V | | | | | | |
| 30.000 | --- | --- | -9.8 | --- | 40.0 | --- | --- | --- |
| 50.000 | --- | --- | -14.1 | --- | 40.0 | --- | --- | --- |
| 80.000 | --- | --- | -15.0 | --- | 40.0 | --- | --- | --- |
| 150.000 | --- | --- | -10.0 | --- | 43.5 | --- | --- | --- |
| 250.000 | --- | --- | -3.9 | --- | 46.0 | --- | --- | --- |
| 350.000 | --- | --- | -10.5 | --- | 46.0 | --- | --- | --- |
| 500.000 | --- | --- | -4.4 | --- | 46.0 | --- | --- | --- |
| 800.000 | --- | --- | 0.7 | --- | 46.0 | --- | --- | --- |

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

3.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

3.5 Radiated Test Equipment

| Equipment | Manufacturer | Model No. | Next Cal. Date |
|----------------------|-----------------|-----------|----------------|
| Spectrum Analyzer | Hewlett-Packard | 8568B | 12/21/2001 |
| Pre-selector | Hewlett-Packard | 85685A | 01/01/2002 |
| Quasi Peak Detector | Hewlett-Packard | 85650A | 01/01/2002 |
| RF Test Receiver | Rohde & Schwarz | ESVS 30 | 08/06/2002 |
| Log periodic Antenna | EMCO | 3146 | 11/02/2001 |
| Biconical Antenna | EMCO | 3110B | 11/02/2001 |
| Preamplifier | Hewlett-Packard | 8447D | 12/29/2001 |
| Spectrum Analyzer | Hewlett-Packard | 8564E | 04/22/2002 |

3.6 Measuring Instrument Setup

Explanation of measuring instrument setup in frequency band measured is as following:

| Frequency Band (MHz) | Instrument | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|-------------------|------------|----------------------|-----------------|
| 30 to 1000 | RF Test Receiver | Quasi Peak | 120 kHz | N/A |
| | Spectrum Analyzer | Peak | 100 kHz | 100 kHz |

3.7 Radiated Measurement Photos

Please see setup photos in Exhibit F.

4 CONDUCTED EMISSION MEASUREMENT

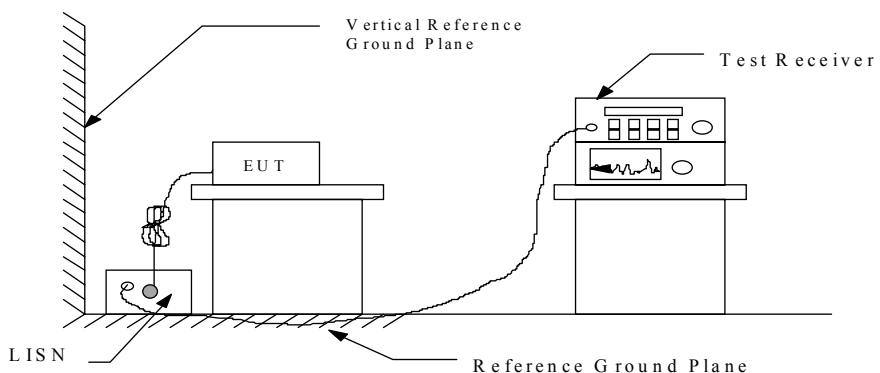
4.1 Standard Applicable

For intentional device, Line Conducted Emission Limits are in accordance to § 15.207(a), any emissions level shall not exceed 48 dBuV.

4.2 Measurement Procedure

1. Setup the configuration per figure 3.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 6 or 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then records the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest three emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 3 : Conducted emissions measurement configuration



4.3 Conducted Emission Data

Operation Mode : Charging

Test Date : Dec. 20, 2001

Temperature : 21 °C

Humidity: 70 %

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) | Result (dBuV) | | Limit (dBuV) | Margin (dB) |
|--------------------|----------------|------|----------------|---------------|------|-----------------|----------------|
| | N | L1 | | N | L1 | | |
| 0.452 | 25.8 | 22.2 | 0.2 | 26.0 | 22.4 | 48.0 | -22.0 |
| 0.480 | 27.6 | 23.8 | 0.2 | 27.8 | 24.0 | 48.0 | -20.2 |
| 0.584 | 26.6 | 19.6 | 0.2 | 26.8 | 19.8 | 48.0 | -21.2 |
| 0.672 | 26.8 | 18.6 | 0.2 | 27.0 | 18.8 | 48.0 | -21.0 |
| 0.873 | 24.4 | 24.2 | 0.3 | 24.7 | 24.5 | 48.0 | -23.3 |
| 1.392 | 27.0 | 27.6 | 0.3 | 27.3 | 27.9 | 48.0 | -20.1 |
| 4.661 | 19.6 | 19.4 | 0.3 | 19.9 | 19.7 | 48.0 | -28.1 |
| 17.299 | 20.2 | 20.0 | 0.8 | 21.0 | 20.8 | 48.0 | -27.0 |

Note :

1. Please see appendix 1 for Plotted Data.
2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

4.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{LISN FACTOR}$$

Assume a receiver reading of 22.5 dB μ V is obtained, and LISN Factor is 0.1 dB, then the total of disturbance voltage is 22.6 dB μ V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{V}$$

$$\begin{aligned} \text{Level in } \mu \text{V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{V})/20] \\ &= 13.48 \text{ } \mu \text{V} \end{aligned}$$

4.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test.

| Equipment | Manufacturer | Model No. | Next Cal. Date |
|--------------------------------------|-------------------|-----------|----------------|
| RF Test Receiver | Rohde and Schwarz | ESH3 | 01/03/2002 |
| Spectrum Monitor | Rohde and Schwarz | EZM | N.C.R. |
| Line Impedance Stabilization network | Rohde and Schwarz | ESH2-Z5 | 08/05/2002 |
| Plotter | Hewlett-Packard | 7440A | N/A |
| Shielded Room | Riken | N/A | N.C.R. |

4.6 Photos of Conduction Measuring Setup

Please see setup photos in Exhibit F.

5 ANTENNA REQUIREMENT

5.1 Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.2 Antenna Construction

The antenna is permanently mounted on PCB, no consideration of replacement.

6 EMISSION BAND MEASUREMENT

6.1 Standard Applicable

According to 15.235(b), the field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in § 15.209, whichever permits the higher emission levels

6.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 1 and measurement the turn on the EUT. Then have the EUT activating in normal operation and make sure the instrument is operated in its linear range.
3. Adjust the measurement frequency range to contain the signal radiated from the Eut. Set both RBW and VBW of spectrum analyzer to 10 kHz and 100kHz respectively with a convenient frequency span including 200kHz bandwidth of the emission.
4. Mark the bandwidth of 200kHz points and plot the graph on spectrum analyzer.

6.3 Measurement Equipment

| Equipment | Manufacturer | Model No. | Next Cal. Date |
|-------------------|-----------------|-----------|----------------|
| EMI Test Receiver | Rohde & Schwarz | ESBI | 05/15/2002 |
| Plotter | Hewlett-Packard | 7440A | N/A |

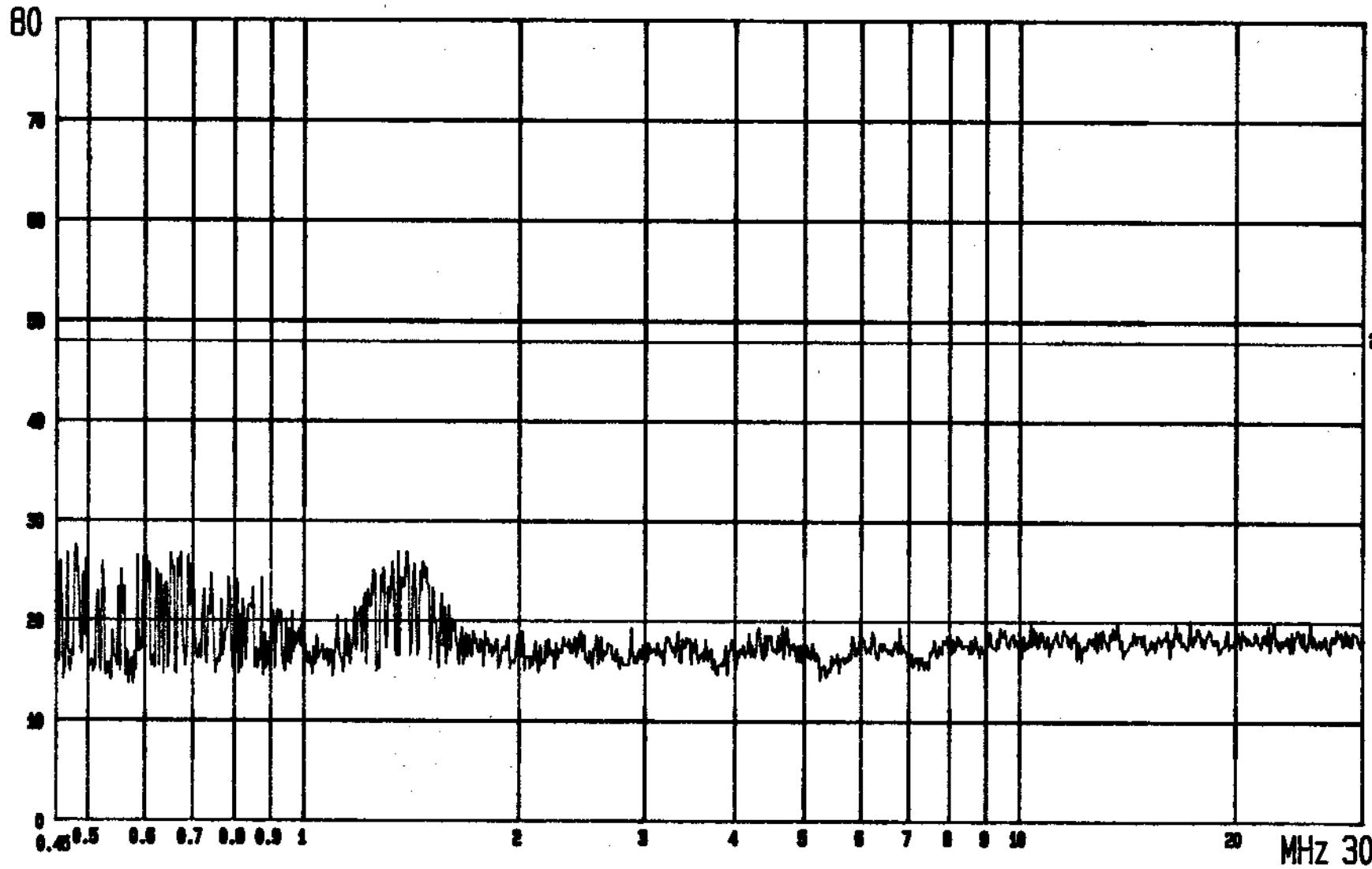
6.4 Measurement Data

Test Date : Dec. 20, 2001 Temperature : 21 °C Humidity: 71 %

Test Reuslt:Please see appendix 2 for Plotted Data

Appendix 1 : Plotted Data For Conducted Emission

dB_{UV}



FCC CONDUCTED TEST
MODEL: WHH102B

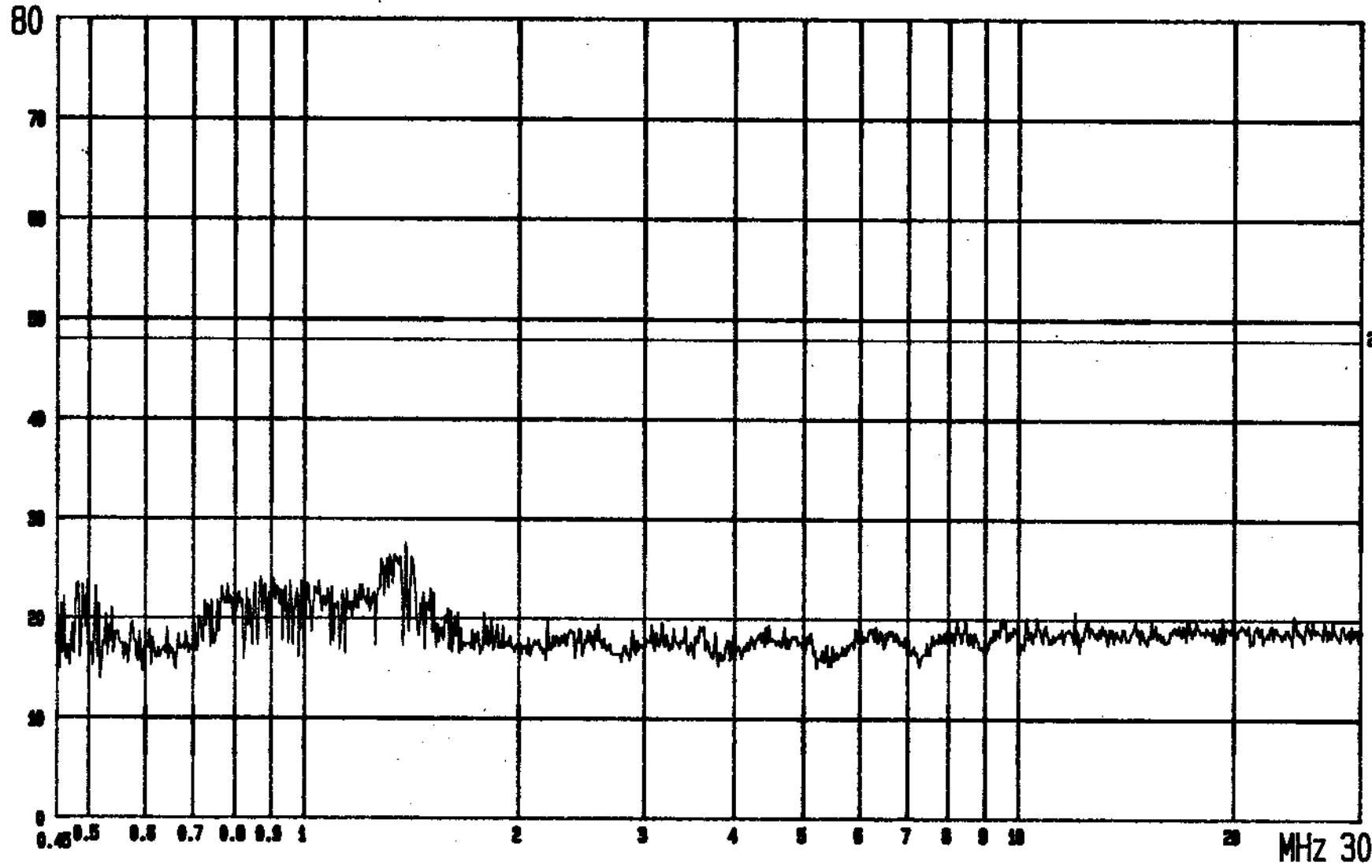
EUT: Base Unit
MODE: Charge

LISN: N

2: QP., CLASS B LIMIT
ETC EMI LAB.

AC ADAPTOR: I/P=120Vac/60Hz; O/P=6VDC

dBuV



FCC CONDUCTED TEST
MODEL: WHH102B

EUT: Base Unit
MODE: Charge

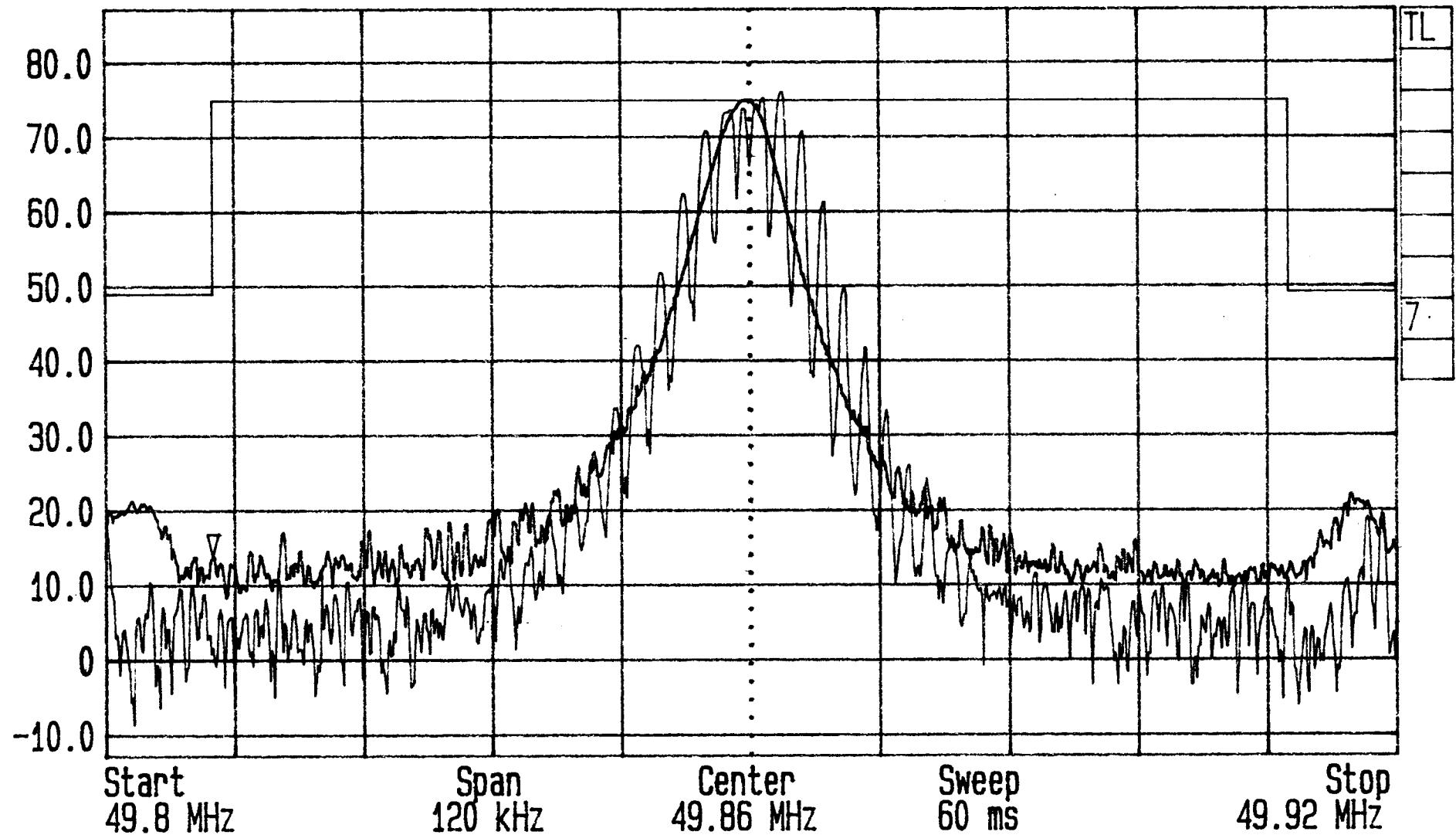
LISN: L1
AC ADAPTOR: I/P=120Vac/60Hz; O/P=6VDC

2: QP., CLASS B LIMIT
ETC EMI LAB.

Appendix 2 : Plotted Data For Emission Band Measurement

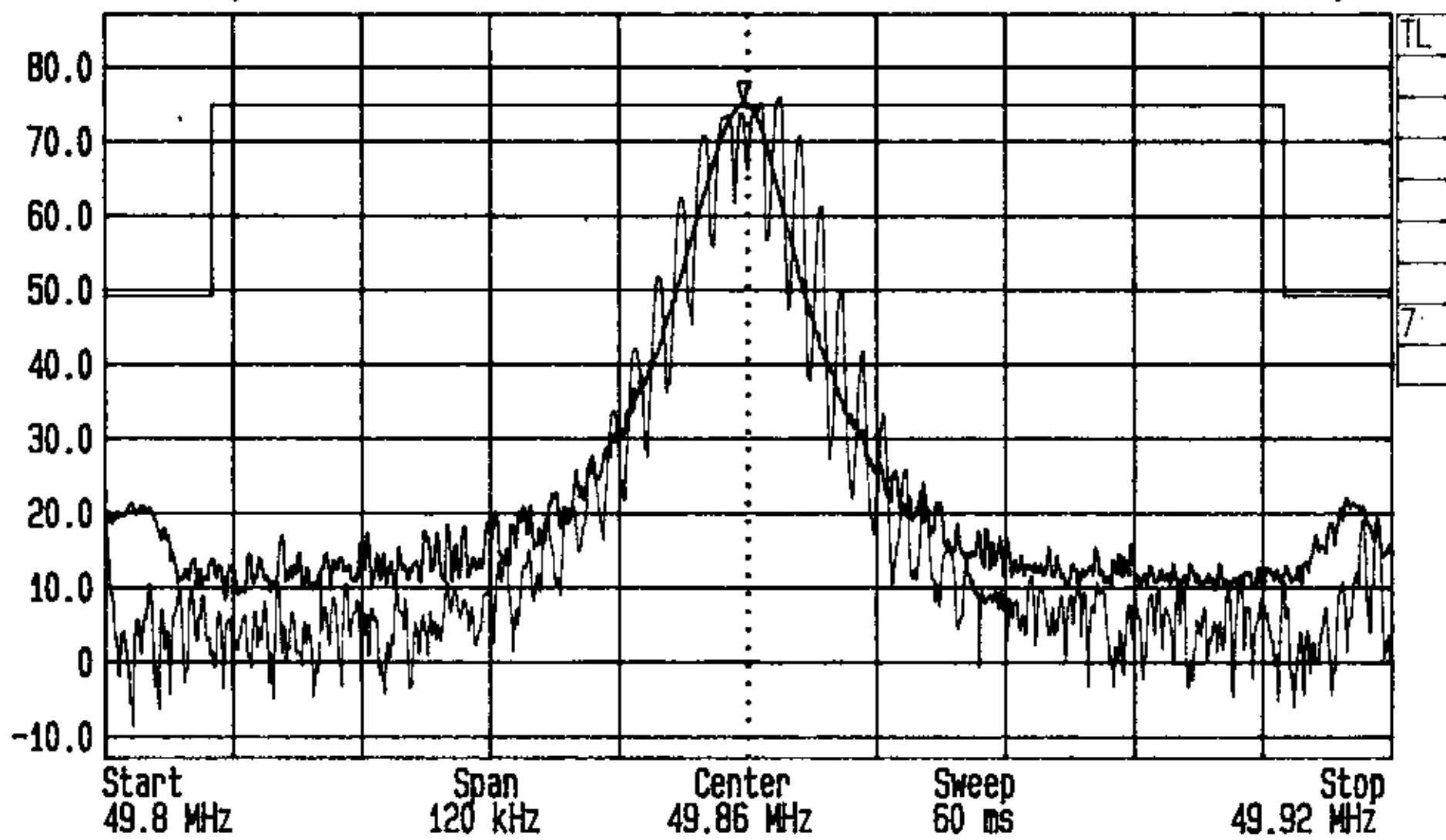


Res.Bw 3.0 kHz [3dB] Vid.Bw 100 kHz
TG.Lvl off
CF.Stp 12.000 kHz RF.Att
Ref.Lvl 13.82 dB μ V Unit 10 dB
87.00 dB μ V [dB μ V]





Res.Bw 3.0 kHz [3dB] Vid.Bw 100 kHz
T6.Lvl off
CF.Stp 12.000 kHz RF.Att
Ref.Lvl 87.00 dB μ V Marker 75.02 dB μ V 10 dB
49.8596 MHz [dB μ V]





D.

Ref.Lvl

87.00 dB μ V

Marker

11.94 dB μ V
49.9100 MHzRes.Bw
TG.Lvl
CF.Stp3.0 kHz [3dB]
off
12.000 kHzVid.Bw
RF.Att
Unit100 kHz
10 dB
[dB μ V]