

FCC Part 15 Subpart C
EMI TEST REPORT
of

E.U.T. : LCD 6.4" Color Television

FCC ID. : ATI9R3LCD648

MODEL : LCD-648/LCC-648/
VOH-642/VOH641

Working Frequency : 88.7 MHz, 89.1MHz

for

APPLICANT : ACTION ELECTRONICS CO., LTD.

ADDRESS : 29, TUNG YUAN ROAD, CHUNG LI IND. ZONE,
CHUNG LI, TAIWAN, R.O.C.

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN
NO. 8 LANE 29, WENMIMG ROAD,
LOSHAN TSUN, KWEISHAN HSIANG,
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Report Number : ET88R-01-046

TEST REPORT CERTIFICATION

Applicant : ACTION ELECTRONICS CO., LTD.
29, TUNG YUAN ROAD, CHUNG LI IND. ZONE, CHUNG LI,
TAIWAN, R.O.C.

Manufacturer : ACTION INDUSTRIES (M) SON BHD.
2480, TINGKAT PERUSAHAAN ENAM, PRAI FREE TRADE
ZONE, 13600 PERAI, PENANG, MALAYSIA

Description of EUT :

a) Type of EUT : LCD 6.4" Color Television
b) Trade Name : ACTION, AUDIOVOX
c) Model No. : LCD-648/LCC-648/VOH-642/VOH641
d) FCC ID : AT19R3LCD648
e) Working Frequency : 88.7 MHz, 89.1MHz
f) Power Supply : DC 12V

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (1996)

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 founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Issued Date : FEB. 06, 1999

Test Engineer : Gan Lin Lee
(Gan-Lin Lee)

Approve & Authorized Signer : Will Yauo
Will Yauo, Supervisor
EMI Test Site of ELECTRONICS
TESTING CENTER, TAIWAN

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1. GENERAL INFORMATION

1.1 Product Description

a) Type of EUT	: LCD 6.4" Color Television
b) Trade Name	: ACTION, AUDIOVOX
c) Model No.	: LCD-648/LCC-648/VOH-642/VOH641
d) FCC ID	: ATI9R3LCD648
e) Working Frequency	: 88.7MHz, 89.1MHz
f) Power Supply	: DC 12V

1.2 Characteristics of Device:

The EUT can transmit 88.7MHz or 89.1MHz. Audio signal to normal FM Radio Receiver and can receive normal channels from the television broadcast service or other signal by two AV jacks and equipped two earphone jacks.

1.3 Test Methodology

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

The LCD 6.4" Color Television 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 LCD 6.4" Color Television 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 , 1997.

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 15.239 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	
	$\mu\text{V}/\text{meter}$	$\text{dB}\mu\text{V}/\text{meter}$
88-108	250	48

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	
	$\mu\text{V}/\text{meter}$	$\text{dB}\mu\text{V}/\text{meter}$
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 15.239(a), emissions from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

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

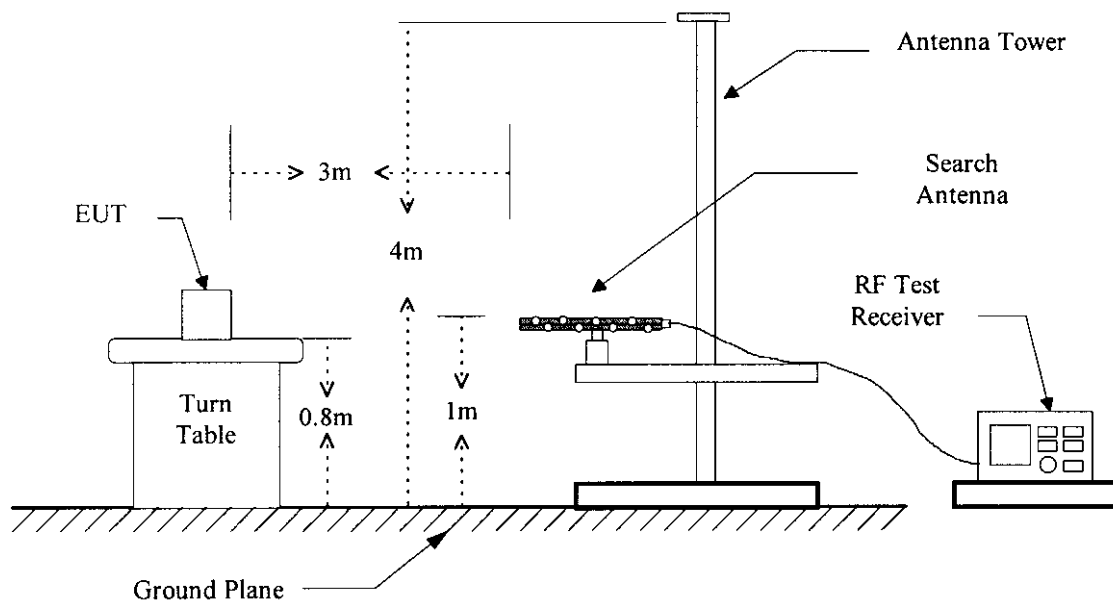
3.1 Applicable Standard

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

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

3.3.1 Fundamental Frequency

Operation Mode : TX
 Temperature : 20 °C
 Humidity : 50 %
 Operated mode : Tx On (CH 1)
 Test Date : JAN. 25, 1999

Frequency (MHz)	Meter Reading AVG. (dBuV)		Corrected Factor (dB)	Result (dBuV/m)		Limit @3m (dBuV/m)	Margin (dB)
	H	V		H	V		
88.414	60.3	56.9	-14.2	46.1	42.7	48.0	-1.9

3.3.2 Harmonics And Spurious

Operation Mode : TX
 Temperature : 20 °C
 Humidity : 50 %
 Operated mode : Tx On (CH 1)
 Test Date : JAN. 25, 1999

Frequency (MHz)	Meter Reading AVG. (dBuV)		Corrected Factor (dB)	Result (dBuV/m)		Limit @3m (dBuV/m)	Margin (dB)
	H	V		H	V		
176.864	37.9	39.2	-9.1	28.8	30.1	43.5	-13.4
267.909	32.1	33.7	-3.7	28.4	30.0	46.0	-16.0
353.546	45.8	40.5	-9.8	36.0	30.7	46.0	-10.0
442.003	39.4	38.4	-5.6	33.8	32.8	46.0	-12.2
530.484	38.6	39.2	-5.0	33.6	34.2	46.0	-11.8
618.770	38.6	36.8	-3.6	35.0	33.2	46.0	-11.0
707.026	44.0	42.6	-9.0	35.0	33.6	46.0	-11.0
795.500	34.2	32.9	0.5	34.7	33.4	46.0	-11.3
883.929	31.9	33.5	2.3	34.2	35.8	46.0	-10.2

3.3.3 Other Emissions**A.**Operation Mode : TVTest Date : DEC. 31, 1998 Temperature : 23 °C Humidity: 60%**a. Channel 2 (Fundamental Frequency : 101 MHz)**

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
101.000	H	43.3	-13.7	29.6	43.5	-13.9	130	1.50
202.000	H	47.3	-7.0	40.3	43.5	-3.2	150	1.40
303.000	H	42.6	-7.0	35.6	46.0	-10.4	250	1.30
404.000	H	40.6	-6.3	34.3	46.0	-11.7	215	1.30
505.000	H/V	---	-4.5	---	46.0	---	---	---
606.000	H/V	---	-4.2	---	46.0	---	---	---
707.000	H/V	---	-0.9	---	46.0	---	---	---
808.000	H/V	---	1.0	---	46.0	---	---	---
909.000	H/V	---	2.2	---	46.0	---	---	---
1010.000	H/V	---	-9.7	---	54.0	---	---	---
1111.000	H/V	---	-9.2	---	54.0	---	---	---
1212.000	H/V	---	-8.8	---	54.0	---	---	---
1313.000	H/V	---	-8.3	---	54.0	---	---	---
1414.000	H/V	---	-7.9	---	54.0	---	---	---
1515.000	H/V	---	-7.4	---	54.0	---	---	---
1616.000	H/V	---	-6.8	---	54.0	---	---	---
1717.000	H/V	---	-6.2	---	54.0	---	---	---
1818.000	H/V	---	-5.7	---	54.0	---	---	---

b. Channel 4 (Fundamental Frequency : 113 MHz)

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
113.000	H	45.0	-11.4	33.6	43.5	-9.9	115	1.50
226.000	H	44.8	-5.4	39.4	46.0	-6.6	180	1.80
339.000	H	44.8	-8.8	36.0	46.0	-10.0	150	2.00
452.000	H	40.5	-5.5	35.0	46.0	-11.0	225	2.00
565.000	H/V	---	-5.3	---	46.0	---	---	---
678.000	H/V	---	-1.0	---	46.0	---	---	---
791.000	H/V	---	0.3	---	46.0	---	---	---
904.000	H/V	---	2.2	---	46.0	---	---	---
1017.000	H/V	---	-9.6	---	54.0	---	---	---
1130.000	H/V	---	-9.1	---	54.0	---	---	---
1243.000	H/V	---	-8.6	---	54.0	---	---	---
1356.000	H/V	---	-8.1	---	54.0	---	---	---
1469.000	H/V	---	-7.6	---	54.0	---	---	---
1582.000	H/V	---	-7.0	---	54.0	---	---	---
1695.000	H/V	---	-6.4	---	54.0	---	---	---
1808.000	H/V	---	-5.7	---	54.0	---	---	---

c. Channel 6 (Fundamental Frequency : 129 MHz)

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
129.000	H	50.0	-11.4	38.6	43.5	-4.9	90	1.50
258.000	H	44.7	-3.9	40.8	46.0	-5.2	235	2.00
387.000	H	41.9	-6.1	35.8	46.0	-10.2	250	1.80
516.000	H	38.6	-4.8	33.8	46.0	-12.2	300	1.80
645.000	H/V	---	-3.0	---	46.0	---	---	---
774.000	H/V	---	-0.3	---	46.0	---	---	---
903.000	H/V	---	2.1	---	46.0	---	---	---
1032.000	H/V	---	-9.6	---	54.0	---	---	---
1161.000	H/V	---	-9.0	---	54.0	---	---	---
1290.000	H/V	---	-8.4	---	54.0	---	---	---
1419.000	H/V	---	-7.9	---	54.0	---	---	---
1548.000	H/V	---	-7.2	---	54.0	---	---	---
1677.000	H/V	---	-6.5	---	54.0	---	---	---
1806.000	H/V	---	-5.7	---	54.0	---	---	---

d. Channel 7 (Fundamental Frequency : 221 MHz)

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
221.000	H	49.1	-5.7	43.4	46.0	-2.6	350	1.50
442.000	H	37.7	-5.6	32.1	46.0	-13.9	270	1.80
663.000	H	36.6	-1.9	34.7	46.0	-11.3	235	1.40
884.000	H/V	---	2.3	---	46.0	---	---	---
1105.000	H/V	---	-9.2	---	54.0	---	---	---
1326.000	H/V	---	-8.3	---	54.0	---	---	---
1547.000	H/V	---	-7.2	---	54.0	---	---	---
1768.000	H/V	---	-5.9	---	54.0	---	---	---

e. Channel 10 (Fundamental Frequency : 239 MHz)

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
239.000	H	47.2	-4.6	42.6	46.0	-3.4	275	1.40
478.000	H	38.5	-4.5	34.0	46.0	-12.0	90	1.50
717.000	H	36.5	-0.9	35.6	46.0	-10.4	315	1.30
956.000	H/V	---	3.3	---	46.0	---	---	---
1195.000	H/V	---	-8.8	---	54.0	---	---	---
1434.000	H/V	---	-7.8	---	54.0	---	---	---
1673.000	H/V	---	-6.5	---	54.0	---	---	---

f. Channel 13 (Fundamental Frequency : 257 MHz)

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
257.000	H	40.4	-3.9	36.5	46.0	-9.5	130	1.30
514.000	H	36.7	-4.7	32.0	46.0	-14.0	230	1.40
771.000	H	35.3	-0.3	35.0	46.0	-11.0	90	1.50
1028.000	H/V	---	-9.6	---	54.0	---	---	---
1285.000	H/V	---	-8.4	---	54.0	---	---	---
1542.000	H/V	---	-7.3	---	54.0	---	---	---
1799.000	H/V	---	-5.8	---	54.0	---	---	---

Remark “---” means that the emission level is too low to be measured or attenuated more than 20 dB from limit.

g. Channel 14 (Fundamental Frequency : 517 MHz)

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
517.000	V	36.6	-4.8	31.8	46.0	-14.2	260	1.00
1034.000	V	46.0	-9.6	36.4	54.0	-17.6	90	1.20
1551.000	H	48.5	-7.2	41.3	54.0	-12.7	120	1.20

h. Channel 44 (Fundamental Frequency : 697 MHz)

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
697.000	V	35.5	-1.0	34.5	46.0	-11.5	300	1.00
1394.000	V	45.8	-8.0	37.8	54.0	-16.2	300	1.00

i. Channel 69 (Fundamental Frequency : 847 MHz)

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
847.000	V	34.4	2.1	36.5	46.0	-9.5	60	1.10
1694.000	H	55.6	-6.4	49.2	54.0	-4.8	270	1.20

B.

Temperature : 20 °C
Humidity : 50 %
Operated mode : Tx On
Test Date : JAN. 25, 1999

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)
39.021	V	49.6	-11.6	38.0	40.0	-2.0
77.971	V	51.1	-15.3	35.8	40.0	-4.2
97.130	H	50.3	-13.9	36.4	43.5	-7.1
135.450	H	49.9	-11.1	38.8	43.5	-4.7
145.001	H	49.8	-10.4	39.4	43.5	-4.1
289.721	H	42.6	-2.0	40.6	46.0	-5.4

Note: All test values are Quasi Peak.

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

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

3.5 Radiated Test Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Hewlett-Packard	8568B	11/27/1999
Pre-selector	Hewlett-Packard	85685A	11/27/1999
Quasi Peak Detector	Hewlett-Packard	85650A	11/27/1999
RF Test Receiver	Rohde & Schwarz	ESVS 30	01/10/2000
Log periodic Antenna	EMCO	3146	09/15/1999
Biconical Antenna	EMCO	3110	09/15/1999
Biconical Antenna	EMCO	3104	08/23/1999
Preamplifier	Hewlett-Packard	8447D	11/30/1999
Micro Wave EMI Test System	Hewlett-Packard	84125C	06/19/1999

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

4 CONDUCTED EMISSION MEASUREMENT

4.1 Conducted Test Results

This EUT is excused from investigation of conducted emission, for it is powered by car battery only.

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 15.239(a), emissions from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

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 set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 30 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.
5. Repeat above procedures until all measured frequencies were complete.

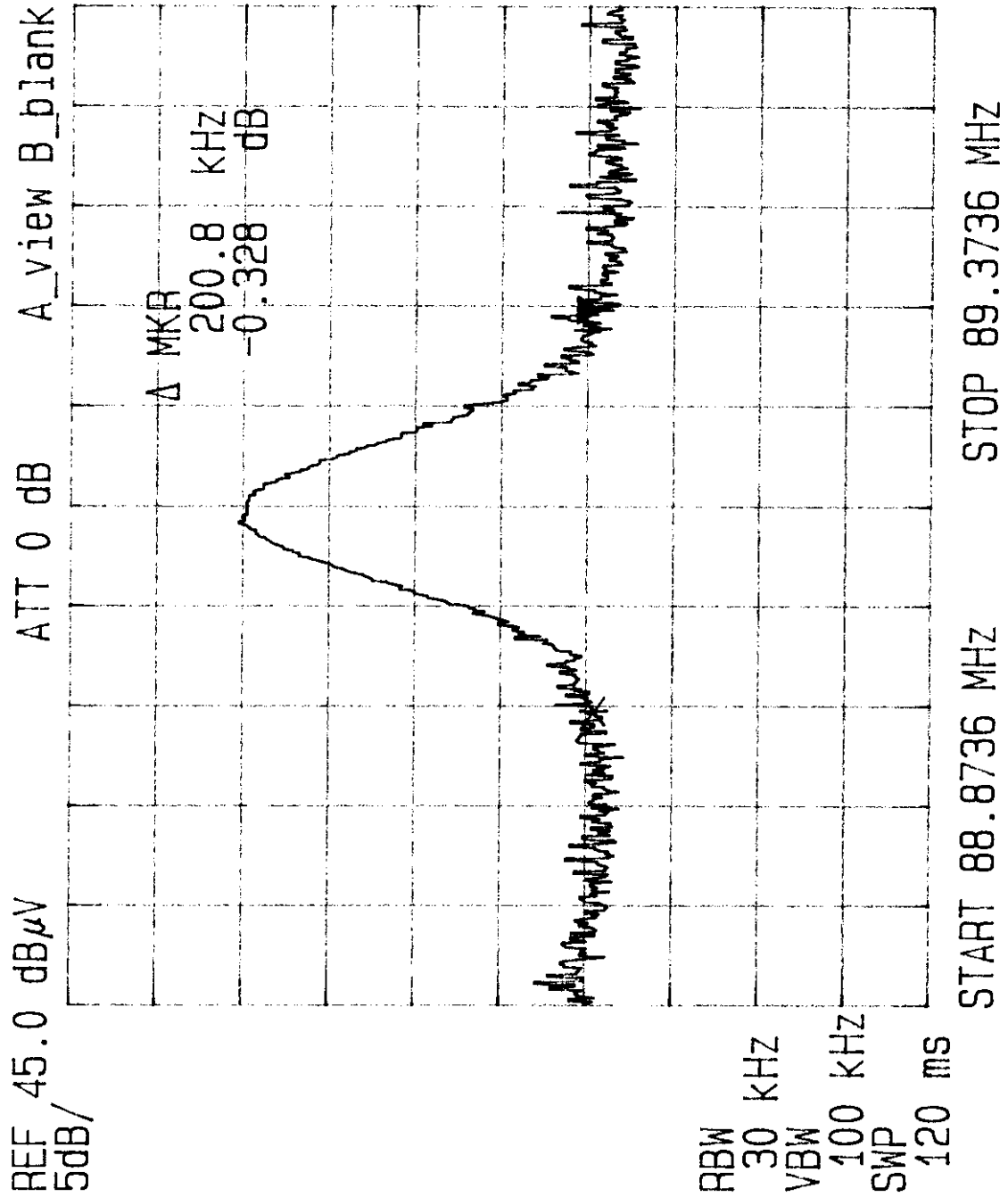
6.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Adventest	R3271	08/24/1999
Plotter	Hewlett-Packard	7440A	N/A

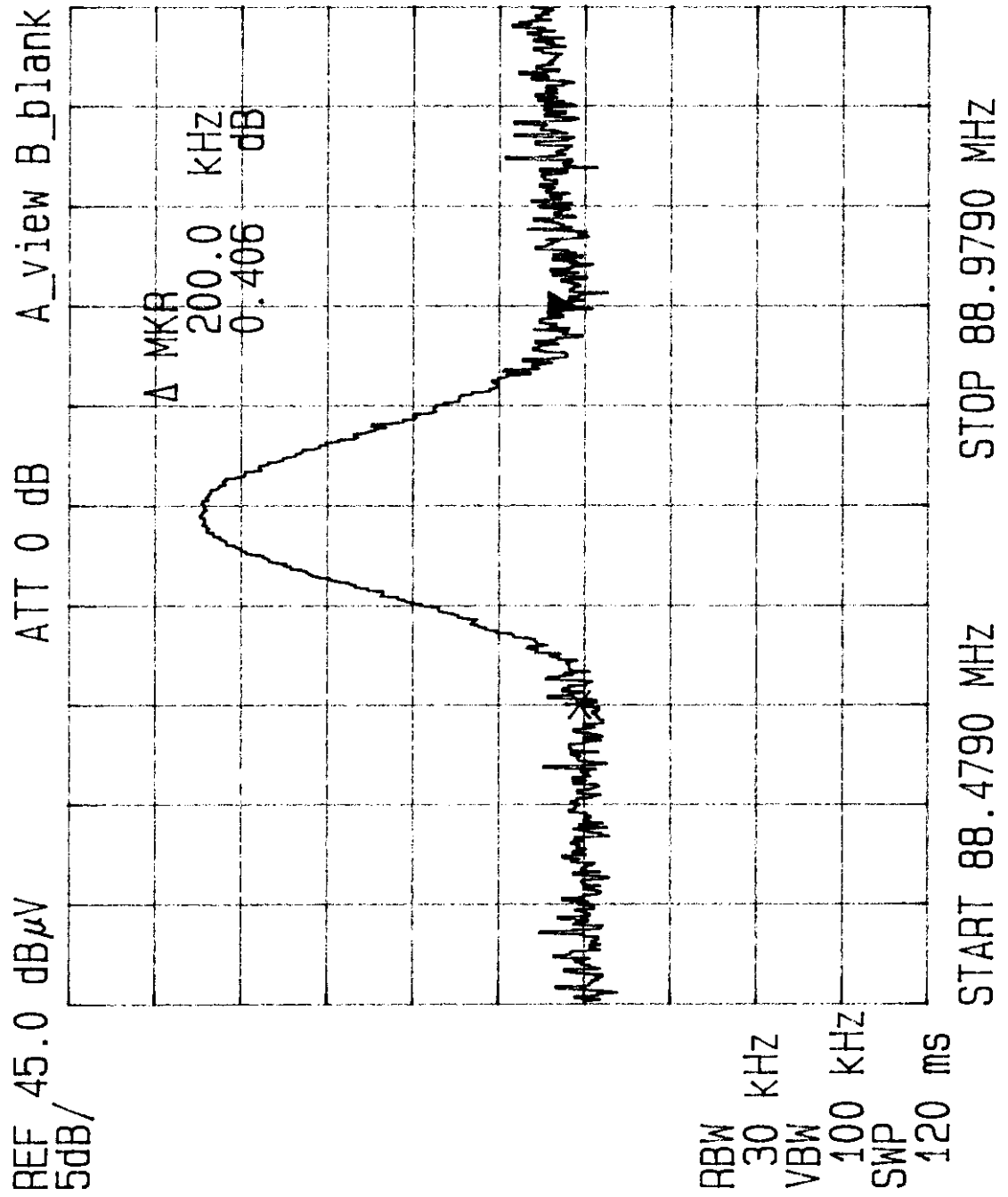
6.4 Measurement Data

Test Date : JAN. 25, 1999 Temperature : 20 °C Humidity: 50%
Please see following pages of plotted data.

CH1



CH2



3.7 Radiated Measurement Photos

