

# **F C C - TEST REPORT**

REPORT NO.: 32619A/2/400F

# **FCC – Test Report**

Date: 2003-01-13

No. 32619A/2/400F

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**FCC listed testlab  
acc. to Section 2.948 of the FCC - Rules  
in compliance with the requirements of  
ANSI C63.4 - 1992**

**Product** : TV-Watch

**Product Class** : Low Power Communication Device  
Transmitter

**Brand Name** : NASACOM

**Model** : MCJ1000

**Applicant** : NASACO ELECTRONICS (HK) LTD

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## LABORATORY - REPORT

**APPLICANT:** NASACO ELECTRONICS (HK) LTD

**ADDRESS:** Rm 1106, Eastern Industrial Centre  
1065 King's Road  
Quarry Bay  
HONG KONG

**DATE OF SAMPLE RECEIVED:** 2002-12-27

**DATE OF TESTING:** 2003-01-11

### DESCRIPTION OF SAMPLE:

Product: TV-Watch  
Product class: Low Power Communication Device Transmitter  
Model number: MCJ1000  
Brand Name: NASACOM  
Rating: AC/DC Adaptor : HA28UF-0901, Input : AC 120V 60Hz, Output : DC 9V,  
or DC 4.5V ('AA' Size Battery x 3)  
Country of Origin: P.R. CHINA

**INVESTIGATIONS REQUESTED:** Measurements to the relevant clauses of F.C.C. Rules and Regulations  
Part 15 Subpart C - Intentional Radiators

**RESULTS:** See the attached test sheets

**CONCLUSIONS** From the measurement data obtained, the tested sample was considered to have COMPLIED with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

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Authorized Signature

**Remark:** Purpose of those tests in this report is to provide the applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under the FCC Equipment Authorization Program. The tests themselves are not Approval Tests

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## Summary of Test Results

### Interference Radiation:

Test result: O.K.  
Test data: See attached data sheet

### Interference Voltage:

Test result: O.K.  
Test data: See attached data sheet

### Measurement of Emissions within Band Edges

Test result: O.K.  
Test data: See attached data sheet

### PHOTOGRAPH OF THE SAMPLE



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## TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Remark
Test Receiver	Rohde & Schwarz	ESH 3	863497/015	10KHz – 30MHz
Test Receiver	Rohde & Schwarz	ESVP	860688/022	25MHz – 1,300 MHz
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	--	2 x 10A, 50Ω, 50μH 10KHz-30MHz
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107	--	30MHz – 1000MHz
Antenna Mast System	Schwarzbeck	AM9104	--	Max. 4 meters height
Spectrum Analyzer with Q. Peak	Tektronix	2712	B023006	9KHz – 1.8GHz
Interface for Spectrum 2712	Tektronix	TD3F14A	--	
Loop Antenna	Rohde & Schwarz	HFH2-Z2	871336/48	9KHz-30MHz
Test Receiver	Rohde & Schwarz	ESH 3	892580/006	10KHz – 30MHz
Test Receiver	Rohde & Schwarz	ESVP	863512/012	25MHz – 1,300 MHz
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2	--	
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107	--	30MHz – 1000MHz
Signal Generator	Rohde & Schwarz	SWS 2	879113/42	100KHz – 1040 MHz
Digital Multimeter	Tektronix	DM2510G	DM- 2510GTW10555	10KHz – 30MHz
Turntable with Controller	Drehtisch	DT312	--	φ120 cm

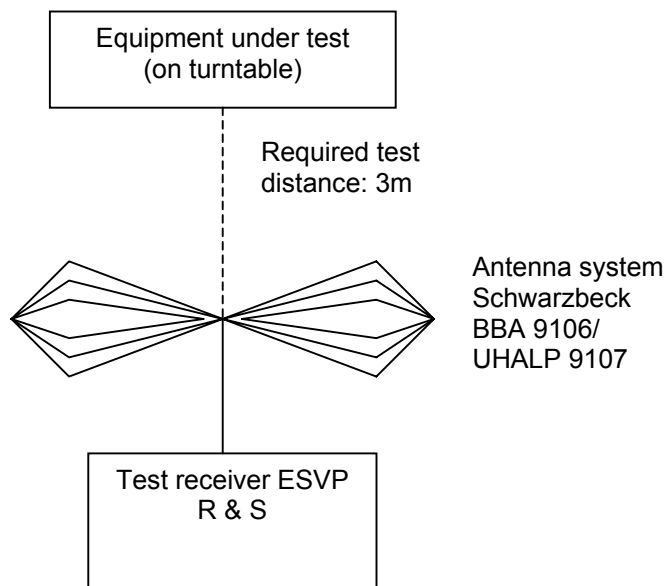
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## Radiated Emission Test Procedure (> 30MHz)



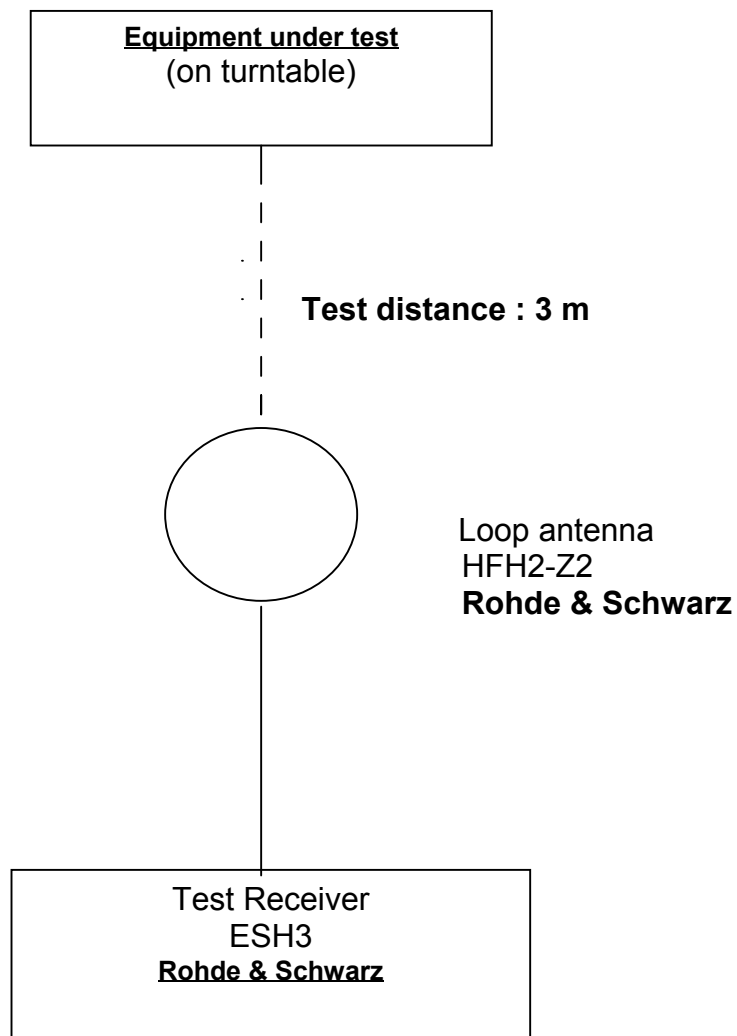
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## Radiated Emission Test Procedure ( 9kHz – 30MHz)





# Interference Radiation

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Measurement of Radiated Emissions

Acc: FCC Part 15 Subpart C

IECC Ref: 32619A/2/400F  
 Model: MCJ1000  
 Applicant: NASACO ELECTRONICS (HK) LTD  
 Ser.Nr.: 1  
 Set under test: TV-Watch  
 Connected sets: -  
 Operating mode: Power "On"

Test Equipment  
 Receiver: ESVP Rohde & Schwarz  
 Antenna: Schwarzbeck BBA 9106  
 and UHALP 9107

## Radiation Measurement : Ch. A : 75.9 MHz

### 1. Fundamental Frequency

Frequency (MHz)	Maximum Test Result (dB(μV/m))		FCC Limit (dB(μV/m))	
	Peak	Average	Peak	Average
75.9	86.6	86.1	118	98

### 2. Other Frequencies

#### A. Peak Value Measurement

	Frequency (MHz)	Horz. Reading dB(μV)	Vert. Reading dB(μV)	Antenna Factor (dB)	Horiz. Test Result dB(μV/m)	Vert. Test Result dB(μV/m)	Limit dB(μV/m)
Harm. 2	151.80	36	29	15.1	51.1	44.1	83.5
Harm. 3	227.70	26	19	17.2	43.2	36.2	83.5
Harm. 4	303.60	20	< 16	16.4	36.4	< 32.4	83.5
Harm. 5	379.50	< 16	< 16	17.9	< 33.9	< 33.9	83.5
Harm. 6	455.40	< 16	< 16	19.1	< 35.1	< 35.1	83.5
Harm. 7	531.30	< 16	< 16	20.0	< 36.0	< 36.0	83.5
Harm. 8	607.20	< 16	< 16	21.0	< 37.0	< 37.0	83.5
Harm. 9	683.10	< 16	< 16	22.1	< 38.1	< 38.1	83.5
Harm. 10	759.00	< 16	< 16	23.2	< 39.2	< 39.2	83.5
Harm. 11	834.90	< 16	< 16	24.2	< 40.2	< 40.2	83.5
Harm. 12	910.80	< 16	< 16	25.2	< 41.2	< 41.2	83.5
Harm. 13	986.70	< 16	< 16	26.3	< 42.3	< 42.3	83.5

#### B. Average Value Measurement

	Frequency (MHz)	Horz. Reading dB(μV)	Vert. Reading dB(μV)	Antenna Factor (dB)	Horiz. Test Result dB(μV/m)	Vert. Test Result dB(μV/m)	Limit dB(μV/m)
Harm. 2	151.80	35	28	15.1	50.1	43.1	63.5
Harm. 3	227.70	25	18	17.2	42.2	35.2	63.5
Harm. 4	303.60	19	< 16	16.4	35.4	< 32.4	63.5
Harm. 5	379.50	< 16	< 16	17.9	< 33.9	< 33.9	63.5
Harm. 6	455.40	< 16	< 16	19.1	< 35.1	< 35.1	63.5
Harm. 7	531.30	< 16	< 16	20.0	< 36.0	< 36.0	63.5
Harm. 8	607.20	< 16	< 16	21.0	< 37.0	< 37.0	63.5
Harm. 9	683.10	< 16	< 16	22.1	< 38.1	< 38.1	63.5
Harm. 10	759.00	< 16	< 16	23.2	< 39.2	< 39.2	63.5
Harm. 11	834.90	< 16	< 16	24.2	< 40.2	< 40.2	63.5
Harm. 12	910.80	< 16	< 16	25.2	< 41.2	< 41.2	63.5
Harm. 13	986.70	< 16	< 16	26.3	< 42.3	< 42.3	63.5

#### Remark:

All frequencies in the required range have been scanned and only those significant and representative readings are reported above.  
 All emissions not reported above are all well below the limit.

# Interference Radiation

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Measurement of Radiated Emissions

Acc: FCC Part 15 Subpart C

IECC Ref: 32619A/2/400F  
 Model: MCJ1000  
 Applicant: NASACO ELECTRONICS (HK) LTD  
 Ser.Nr.: 1  
 Set under test: TV-Watch  
 Connected sets: -  
 Operating mode: Power "On"

Test Equipment  
 Receiver: ESVP Rohde & Schwarz  
 Antenna: Schwarzbeck BBA 9106  
 and UHALP 9107

**Radiation Measurement : Ch. B : 75.7 MHz**

## 1. Fundamental Frequency

Frequency (MHz)	Maximum Test Result (dB(µV/m))		FCC Limit (dB(µV/m))	
	Peak	Average	Peak	Average
75.7	86.6	86.1	118	98

## 2. Other Frequencies

### A. Peak Value Measurement

	Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Antenna Factor (dB)	Horiz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
Harm. 2	151.40	39	38	15.1	54.1	53.1	83.5
Harm. 3	227.10	28	20	17.2	45.2	37.2	83.5
Harm. 4	302.80	19	< 16	16.3	35.3	< 32.3	83.5
Harm. 5	378.50	< 16	< 16	17.9	< 33.9	< 33.9	83.5
Harm. 6	454.20	< 16	< 16	19.1	< 35.1	< 35.1	83.5
Harm. 7	529.90	< 16	< 16	20.0	< 36.0	< 36.0	83.5
Harm. 8	605.60	< 16	< 16	21.0	< 37.0	< 37.0	83.5
Harm. 9	681.30	< 16	< 16	22.1	< 38.1	< 38.1	83.5
Harm. 10	757.00	< 16	< 16	23.2	< 39.2	< 39.2	83.5
Harm. 11	832.70	< 16	< 16	24.1	< 40.1	< 40.1	83.5
Harm. 12	908.40	< 16	< 16	25.1	< 41.1	< 41.1	83.5
Harm. 13	984.10	< 16	< 16	26.3	< 42.3	< 42.3	83.5

### B. Average Value Measurement

	Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Antenna Factor (dB)	Horiz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
Harm. 2	151.40	38	37	15.1	53.1	52.1	63.5
Harm. 3	227.10	27	19	17.2	44.2	36.2	63.5
Harm. 4	302.80	18	< 16	16.3	34.3	< 32.3	63.5
Harm. 5	378.50	< 16	< 16	17.9	< 33.9	< 33.9	63.5
Harm. 6	454.20	< 16	< 16	19.1	< 35.1	< 35.1	63.5
Harm. 7	529.90	< 16	< 16	20.0	< 36.0	< 36.0	63.5
Harm. 8	605.60	< 16	< 16	21.0	< 37.0	< 37.0	63.5
Harm. 9	681.30	< 16	< 16	22.1	< 38.1	< 38.1	63.5
Harm. 10	757.00	< 16	< 16	23.2	< 39.2	< 39.2	63.5
Harm. 11	832.70	< 16	< 16	24.1	< 40.1	< 40.1	63.5
Harm. 12	908.40	< 16	< 16	25.1	< 41.1	< 41.1	63.5
Harm. 13	984.10	< 16	< 16	26.3	< 42.3	< 42.3	63.5

### Remark:

All frequencies in the required range have been scanned and only those significant and representative readings are reported above.  
 All emissions not reported above are all well below the limit.

# Interference Radiation

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Measurement of Radiated Emissions

Acc: FCC Part 15 Subpart C

IECC Ref: 32619A/2/400F  
 Model: MCJ1000  
 Applicant: NASACO ELECTRONICS (HK) LTD  
 Ser.Nr.: 1  
 Set under test: TV-Watch  
 Connected sets: -  
 Operating mode: Power "On"

Test Equipment  
 Receiver: ESVP Rohde & Schwarz  
 Antenna: Schwarzbeck BBA 9106  
 and UHALP 9107

## Radiation Measurement : Ch. B : 75.5 MHz

### 1. Fundamental Frequency

Frequency (MHz)	Maximum Test Result (dB(µV/m))		FCC Limit (dB(µV/m))	
	Peak	Average	Peak	Average
75.5	86.5	86	118	98

### 2. Other Frequencies

#### A. Peak Value Measurement

	Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Antenna Factor (dB)	Horiz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
Harm. 2	151.00	39	38	15.1	54.1	53.1	83.5
Harm. 3	226.50	26	20	17.2	43.2	37.2	83.5
Harm. 4	302.00	18	< 16	16.3	34.3	< 32.3	83.5
Harm. 5	377.50	< 16	< 16	17.9	< 33.9	< 33.9	83.5
Harm. 6	453.00	< 16	< 16	19.0	< 35.0	< 35.0	83.5
Harm. 7	528.50	< 16	< 16	20.0	< 36.0	< 36.0	83.5
Harm. 8	604.00	< 16	< 16	21.0	< 37.0	< 37.0	83.5
Harm. 9	679.50	< 16	< 16	22.1	< 38.1	< 38.1	83.5
Harm. 10	755.00	< 16	< 16	23.1	< 39.1	< 39.1	83.5
Harm. 11	830.50	< 16	< 16	24.1	< 40.1	< 40.1	83.5
Harm. 12	906.00	< 16	< 16	25.1	< 41.1	< 41.1	83.5
Harm. 13	981.50	< 16	< 16	26.2	< 42.2	< 42.2	83.5

#### B. Average Value Measurement

	Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Antenna Factor (dB)	Horiz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
Harm. 2	151.00	38	37	15.1	53.1	52.1	63.5
Harm. 3	226.50	25	19	17.2	42.2	36.2	63.5
Harm. 4	302.00	17	< 16	16.3	33.3	< 32.3	63.5
Harm. 5	377.50	< 16	< 16	17.9	< 33.9	< 33.9	63.5
Harm. 6	453.00	< 16	< 16	19.0	< 35.0	< 35.0	63.5
Harm. 7	528.50	< 16	< 16	20.0	< 36.0	< 36.0	63.5
Harm. 8	604.00	< 16	< 16	21.0	< 37.0	< 37.0	63.5
Harm. 9	679.50	< 16	< 16	22.1	< 38.1	< 38.1	63.5
Harm. 10	755.00	< 16	< 16	23.1	< 39.1	< 39.1	63.5
Harm. 11	830.50	< 16	< 16	24.1	< 40.1	< 40.1	63.5
Harm. 12	906.00	< 16	< 16	25.1	< 41.1	< 41.1	63.5
Harm. 13	981.50	< 16	< 16	26.2	< 42.2	< 42.2	63.5

#### Remark:

All frequencies in the required range have been scanned and only those significant and representative readings are reported above.  
 All emissions not reported above are all well below the limit.

# Interference Radiation

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Measurement of Radiated Emissions

Acc: FCC Part 15 Subpart C

IECC Ref: 32619A/2/400F  
 Model: MCJ1000  
 Applicant: NASACO ELECTRONICS (HK) LTD  
 Ser.Nr.: 1  
 Set under test: TV-Watch  
 Connected sets: -  
 Operating mode: Power "On"

Test Equipment  
 Receiver: ESVP Rohde & Schwarz  
 Antenna: Schwarzbeck BBA 9106  
 and UHALP 9107

## Radiation Measurement : Ch. B : 75.3 MHz

### 1. Fundamental Frequency

Frequency (MHz)	Maximum Test Result (dB(μV/m))		FCC Limit (dB(μV/m))	
	Peak	Average	Peak	Average
75.3	86.5	86	118	98

### 2. Other Frequencies

#### A. Peak Value Measurement

	Frequency (MHz)	Horz. Reading dB(μV)	Vert. Reading dB(μV)	Antenna Factor (dB)	Horiz. Test Result dB(μV/m)	Vert. Test Result dB(μV/m)	Limit dB(μV/m)
Harm. 2	150.60	39	38	15.1	54.1	53.1	83.5
Harm. 3	225.90	24	18	17.2	41.2	35.2	83.5
Harm. 4	301.20	18	< 16	16.3	34.3	< 32.3	83.5
Harm. 5	376.50	< 16	< 16	17.9	< 33.9	< 33.9	83.5
Harm. 6	451.80	< 16	< 16	19.0	< 35.0	< 35.0	83.5
Harm. 7	527.10	< 16	< 16	20.0	< 36.0	< 36.0	83.5
Harm. 8	602.40	< 16	< 16	20.9	< 36.9	< 36.9	83.5
Harm. 9	677.70	< 16	< 16	22.1	< 38.1	< 38.1	83.5
Harm. 10	753.00	< 16	< 16	23.1	< 39.1	< 39.1	83.5
Harm. 11	828.30	< 16	< 16	24.1	< 40.1	< 40.1	83.5
Harm. 12	903.60	< 16	< 16	25.1	< 41.1	< 41.1	83.5
Harm. 13	978.90	< 16	< 16	26.2	< 42.2	< 42.2	83.5

#### B. Average Value Measurement

	Frequency (MHz)	Horz. Reading dB(μV)	Vert. Reading dB(μV)	Antenna Factor (dB)	Horiz. Test Result dB(μV/m)	Vert. Test Result dB(μV/m)	Limit dB(μV/m)
Harm. 2	150.60	38	37	15.1	53.1	52.1	63.5
Harm. 3	225.90	23	17	17.2	40.2	34.2	63.5
Harm. 4	301.20	17	< 16	16.3	33.3	< 32.3	63.5
Harm. 5	376.50	< 16	< 16	17.9	< 33.9	< 33.9	63.5
Harm. 6	451.80	< 16	< 16	19.0	< 35.0	< 35.0	63.5
Harm. 7	527.10	< 16	< 16	20.0	< 36.0	< 36.0	63.5
Harm. 8	602.40	< 16	< 16	20.9	< 36.9	< 36.9	63.5
Harm. 9	677.70	< 16	< 16	22.1	< 38.1	< 38.1	63.5
Harm. 10	753.00	< 16	< 16	23.1	< 39.1	< 39.1	63.5
Harm. 11	828.30	< 16	< 16	24.1	< 40.1	< 40.1	63.5
Harm. 12	903.60	< 16	< 16	25.1	< 41.1	< 41.1	63.5
Harm. 13	978.90	< 16	< 16	26.2	< 42.2	< 42.2	63.5

#### Remark:

All frequencies in the required range have been scanned and only those significant and representative readings are reported above.  
 All emissions not reported above are all well below the limit.

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## Notes for Radiation Measurement

**1. Measurement facility:**

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.

**2. Distance between the EUT and measuring antenna:**

3 meters.

**3. Measuring instrumentations:**

Rohde & Schwarz ESVP Test Receiver ( 20 - 1300 MHz ) with a CISPR weighting QP detector, 6 dB bandwidth set at 120 KHz.

In the frequency range above 1000 MHz Spectrum Analyzer FMSM26 and Analyzer Display Unit FSA-D are used, bandwidth set at 100 kHz.

**4. Measuring antenna:**

Broad-band antenna for the frequency range 30 - 300 MHz and frequency range 300 - 1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the Antenna Factor for measurement data. The antennas are capable of measuring both horizontal and vertical polarizations.

Loop antenna for the frequency range 9KHz – 30MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the measurement data. The center of the loop 1 m above the ground plane, positioned with its plane vertical at the specified distance and rotated about its vertical axis and placed horizontal for maximum response at each azimuth about the EUT.

In the frequency range above 1 GHz horn-antenna RGA 50/60 is used.

**5. Frequency range scanned:**

The frequency range 30 - 5000 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.

**6. Arrangement of EUT:**

During the test, the sample was operated at rated supply voltage and arranged for maximum emissions. To find the maximum emission, the antenna was raised from 1 to 4 meters and was stopped at the maximum emission point.

**7. Measuring Procedure:**

In accordance with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'.

# Interference Voltage

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Interf. Voltage 450 KHz - 30 MHz

Acc: FCC Part 15 Subpart C

IECC Ref: 32619A/2/400F

Model: MCJ1000

Applicant: NASACO ELECTRONICS (HK) LTD

Test Equipment

Receiver: Rohde & Schwarz ESH 3

Schwarzbeck NNLA 8119

Ser.Nr.: 1

Set under test: TV-Watch

Connected sets: -

Operating mode: Operate

Frequency (MHz)	Reading dB(μV)	Test Result dB(μV)	Limit dB(μV)
0.45	< 22	< 22	48
1	< 22	< 22	48
1.4	< 22	< 22	48
2	< 22	< 22	48
5	< 22	< 22	48
10	< 22	< 22	48
16	< 22	< 22	48
22	< 22	< 22	48
26	< 22	< 22	48
30	< 22	< 22	48

**Remark:** All frequencies in the required range have been scanned and only those significant and representative readings are reported above.  
All emissions not reported above are all well below the limit.

**Note:** Unless otherwise indicated, the recorded readings are in quasi-peak values.

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## Notes for Voltage Measurement

1. **LISN (Line Impedance Stabilization Network) used:**  
50  $\mu$ H LISN in accordance with Section 4 of ANSI C63.4-1992.
2. **Measuring instrumentations:**  
Rohde & Schwarz ESH3 Test Receiver ( 9 KHz - 30 MHz ) with a CISPR weighting QP detector, 6 dB bandwidth set at 10 KHz.
3. **Frequency range scanned:**  
The frequency range 450 KHz - 30 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.
4. **Setup of EUT:**  
Connection of equipment and operation conditions are the same as those in the Radiation measurement.
5. **Measuring Procedure:**  
In accordance with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'

# FCC – Test Report

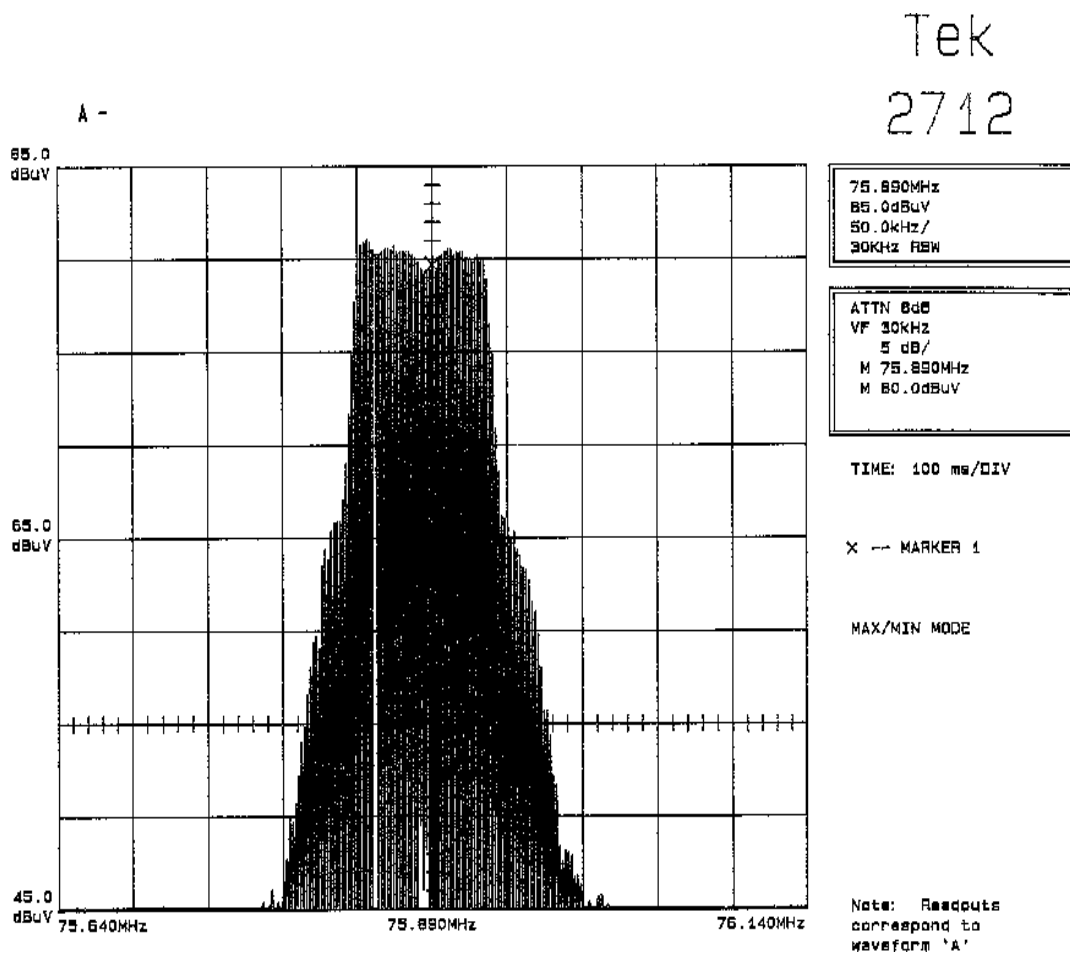
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## Measurement Data of Emissions within Band Edges

Channel A : 75.9 MHz



Result : The field strength of any emission within the operation band did not exceed 98 dB( $\mu$ V/m) for average value or 118 dB( $\mu$ V/m) for peak value. Refer to page 9 & 12 for the recorded value for the emission at the fundamental frequency.



# FCC – Test Report

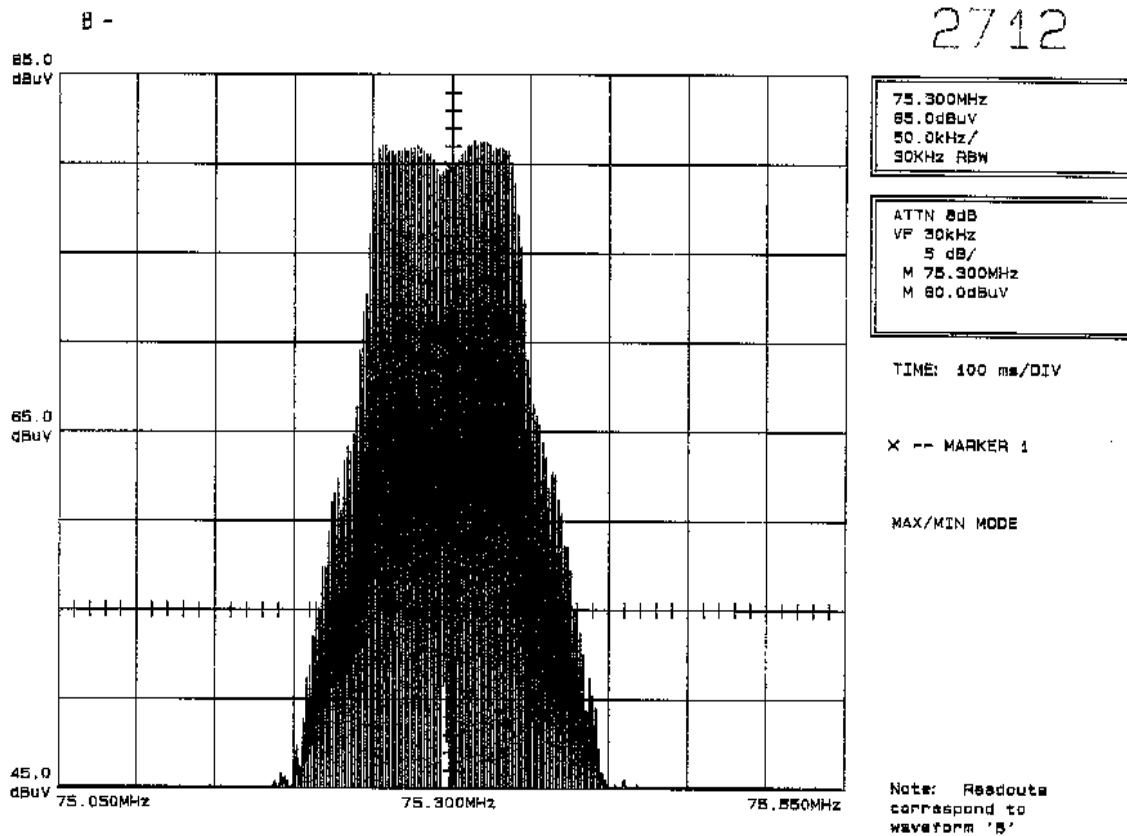
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## Measurement Data of Emissions within Band Edges

Channel D : 75.3 MHz



Result : The field strength of any emission within the operation band did not exceed 98 dB( $\mu$ V/m) for average value or 118 dB( $\mu$ V/m) for peak value. Refer to page 9 & 12 for the recorded value for the emission at the fundamental frequency.

## FCC – Test Report

Date: 2003-01-13

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# Notes for Measurement of Emissions within Band Edges

1. **Measurement facility:**  
Measurement facility located at Fanling (Hong Kong) placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.
2. **Measuring instrumentations:**  
Spectrum Analyzer: Tektronix 2712
3. **Frequency range scanned:**  
The frequency range acc. to FCC rules and regulations part 15 subpart C - Intentional Radiators.
4. **Arrangement of EUT:**  
During the test, the sample was operated.
5. **Measuring Procedure:**  
In accordance with the relevant sections of American National Standards Institute (ANSI) C63.4 - 1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz'.