FCC TEST REPORT

REPORT NO.: RF900621R02A
MODEL NO.: MH-4000E
RECEIVED: June 21, 2001
TESTED: July 12, 2001

APPLICANT: FAN SHAING ELECTRONICS CO., LTD

ADDRESS: No 54 Wu-Chuang RD, WU-KU Industrial Park
Taipei Hsien TAIWAN R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chia Pau Tsuen, Linkou Hsiang,
Taipei, Taiwan, R.O.C.

0528

Lab Code: 200102-0

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1 CERTIFICATION

PRODUCT :	Wireless earphone
BRAND NAME :	MONIX
MODEL NO :	MH-4000E
APPLICANT :	FAN SHAING ELECTRONICS CO., LTD
STANDARDS :	47 CFR Part 15, Subpart C (15.229), ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility on July 12, 2001. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Gary Chang , **DATE:** July 17, 2001
Gary Chang

CHECKED BY: Anna Kuo , **DATE:** July 17, 2001
Anna Kuo

APPROVED BY: Alan Lane , **DATE:** July 17, 2001
Dr. Alan Lane
Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
STANDARD PARAGRAPH	**TEST TYPE**	**RESULT**	**REMARK**
15.107	Conducted Emission Test	PASS	Minimum passing margin is –18.53dBuV at 0.59700MHz
15.229	Radiated Emission Test	PASS	Minimum passing margin is –6.70dBuV at 40.60MHz
15.229(d)	Frequency Tolerance Test	PASS	Meet the requirement of limit

NOTE: The receiver part to communicate with the EUT has been verified to comply with FCC Part 15, Subpart B, Class B (DoC). The test report can be provided upon request.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless earphone
MODEL NO.	MH-4000E
POWER SUPPLY	3.6VDC from battery 9VDC from AC/DC adapter for charged mode of transceiver
MODULATION TYPE	FM
FREQUENCY RANGE	NA
CARRIER FREQUENCY OF EACH CHANNEL	40.685 MHz
BANDWIDTH OF EACH CHANNEL	NA
NUMBER OF CHANNEL	1
ANTENNA TYPE	Wired Antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. The power adapter below was used while the battery of EUT is being charged.

Model Name :	SCP35-9060
Input Power :	110V 60Hz
Output Power :	9VDC 60mA

2. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

One channel are provided in this EUT.

Channel	Frequency	Channel	Frequency
1	40.685 MHz		

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is the transceiver part of a Wireless handsfree kit. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart C (15.229)

ANSI C63.4-1992

All tests have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

NA

4 TEST PROCEDURE AND RESULT

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.45 – 30	48	-	48	-

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
*ROHDE & SCHWARZ Test Receiver	ESHS30	828109/007	July 4, 2002
*ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	July 3, 2002
ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 28, 2001
ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Dec. 3, 2001
*EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	July 3, 2002
*Software	Cond-V2J	NA	NA
*RF cable (JYEBAO)	RG-58A/U	Cable-C02.01	July 9, 2002
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 20, 2002
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 20, 2002
Shielded Room	Site 2	ADT-C02	NA
VCCI Site Registration No.	Site 2	C-240	NA

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

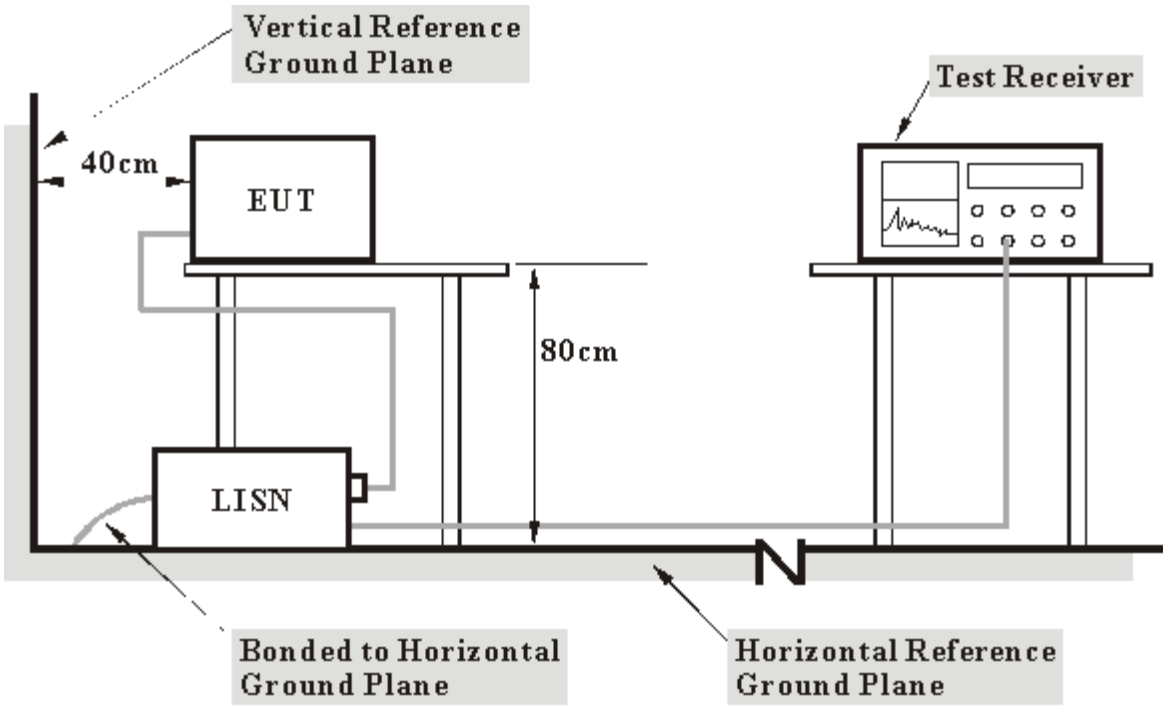
4.1.3 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported.

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item in this test report - Photographs of the Test Configuration.

4.1.5 EUT OPERATING CONDITION

The EUT was set to enable EUT under transmission condition continuously at specific channel frequency.

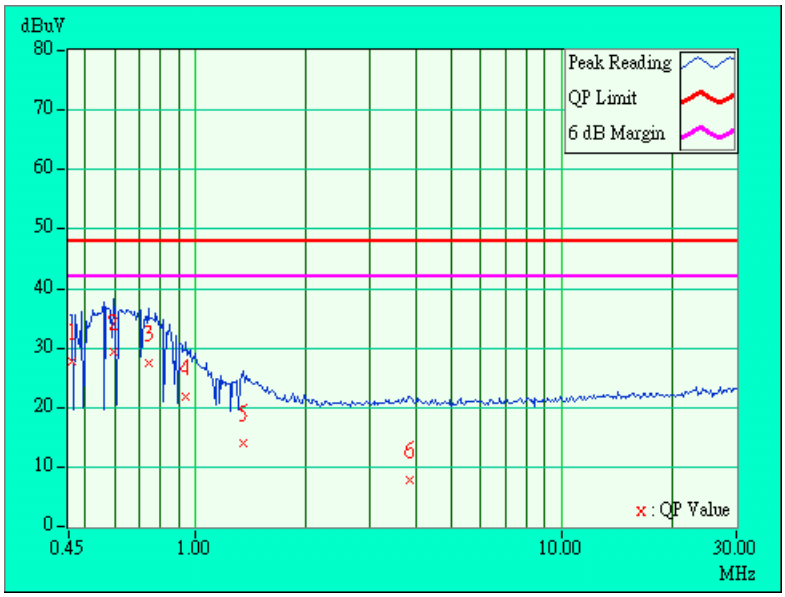
4.1.6 TEST RESULT

EUT	Wireless earphone	**MODEL**	MH-4000E
MODE	Channel frequency	**6dB BANDWIDTH**	10 kHz
INPUT POWER	110Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	**TESTED BY**: Gary Chang	

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.45900	0.20	27.68	---	27.88	---	48.00	---	-20.12	---
2	0.59700	0.20	29.27	---	29.47	---	48.00	---	-18.53	---
3	0.74100	0.20	27.51	---	27.71	---	48.00	---	-20.29	---
4	0.93900	0.20	21.73	---	21.93	---	48.00	---	-26.07	---
5	1.34700	0.20	14.12	---	14.32	---	48.00	---	-33.68	---
6	3.84300	0.38	7.79	---	8.17	---	48.00	---	-39.83	---

NOTES:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Correction Factor + Reading Value.

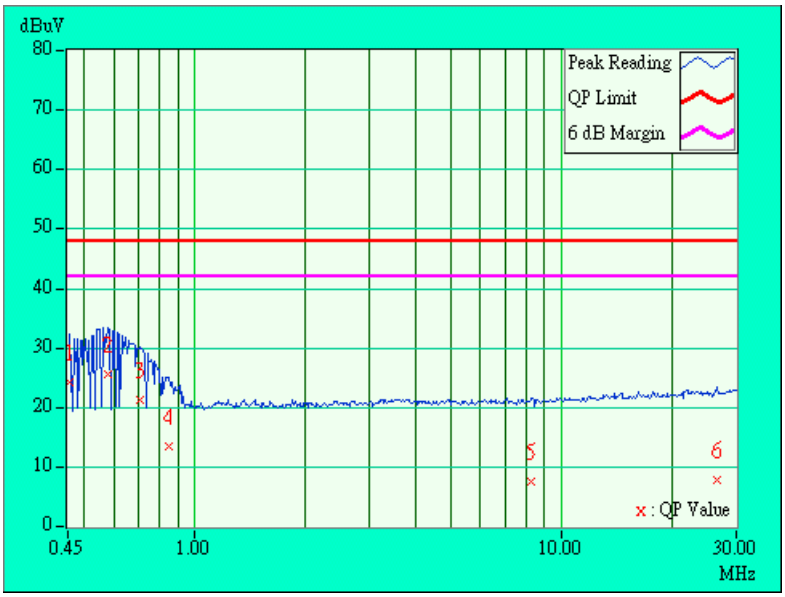


EUT	Wireless earphone	**MODEL**	MH-4000E
MODE	Channel frequency	**6dB BANDWIDTH**	10 kHz
INPUT POWER	110Vac, 60 Hz	**PHASE**	Line (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	**TESTED BY**: Gary Chang	

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.45300	0.20	24.21	---	24.41	---	48.00	---	-23.59	---
2	0.57600	0.20	25.69	---	25.89	---	48.00	---	-22.11	---
3	0.70800	0.20	21.22	---	21.42	---	48.00	---	-26.58	---
4	0.84900	0.20	13.52	---	13.72	---	48.00	---	-34.28	---
5	8.26700	0.54	7.54	---	8.08	---	48.00	---	-39.92	---
6	26.59400	1.33	7.84	---	9.17	---	48.00	---	-38.83	---

NOTES:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.227 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)
40.66-40.70	Quasi-Peak
	60

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:

Other Frequencies (MHz)	Field Strength of Fundamental	
	uV/meter	dBuV/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 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
*HP Spectrum Analyzer	8590L	3544A01176	May 7, 2002
*HP Preamplifier	8447D	2944A08485	Nov. 3, 2001
* HP Preamplifier	8449B	3008A01201	Dec. 13, 2001
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2001
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 25, 2002
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2001
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 4, 2001
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 6, 2002
* EMCO Horn Antenna	3115	9312-4192	April 15, 2002
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	AS61D3	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Aug. 4, 2001
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 4, 2001
Antenna (Horn)	BBHA9120-D	D130	July 10, 2002
Open Field Test Site	Site 5	ADT-R05	July 28, 2001
VCCI Site Registration No.	Site 5	R-1039	NA
Site Registration No.	FCC: 90422 Canada IC: IC 3789 VCCI : R-1039		

NOTE: 1. The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

3. "*" = These equipment are used for the final measurement.

4.2.3 TEST PROCEDURE

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

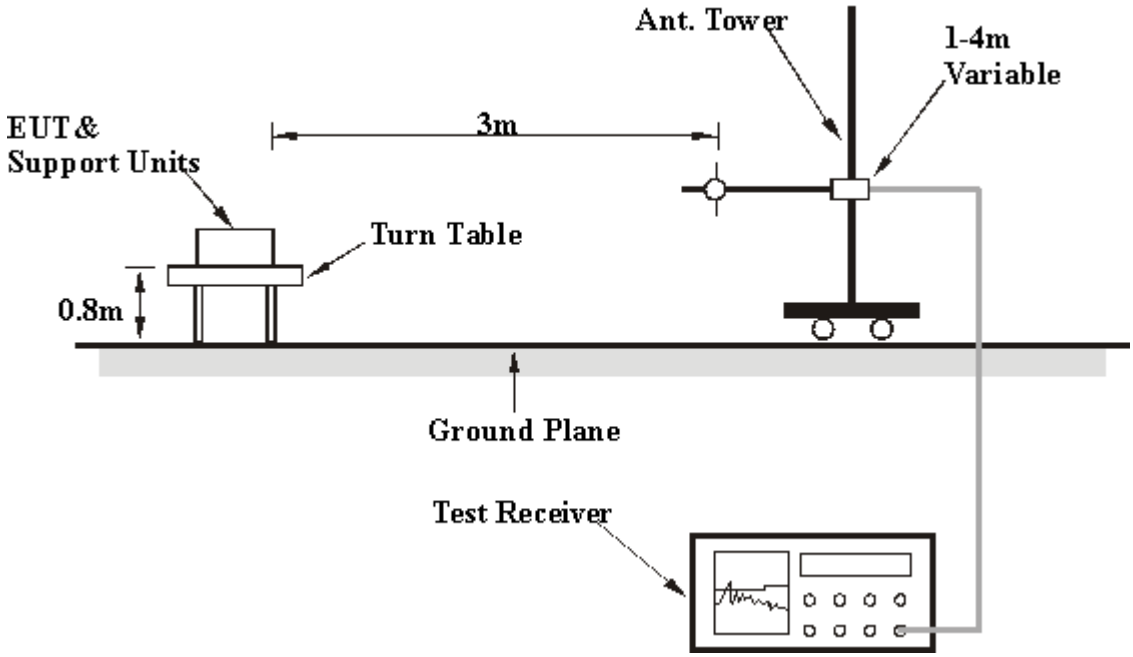
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 TEST SETUP



For the actual test configuration, please refer to the related item in this test report - Photographs of the Test Configuration.

4.2.5 EUT OPERATING CONDITION

Same as 4.1.5

4.2.6 TEST RESULT

EUT	Wireless earphone	MODEL	MH-4000E
MODE	Channel frequency	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	3.6 VDC	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
*1	40.60	53.3 QP	60.00	-6.70	2.30H	110	39.40	11.87	2.08	0.00	-13.95
2	122.05	31.9 QP	43.50	-11.60	1.67H	325	18.20	11.22	2.46	0.00	-13.69
3	249.27	30.0 QP	46.00	-16.00	1.57H	188	15.80	11.36	2.88	0.00	-14.24
4	325.28	31.2 QP	46.00	-14.80	1.79H	143	14.80	13.20	3.24	0.00	-16.44
5	348.95	33.0 QP	46.00	-13.00	1.40H	95	15.80	13.80	3.37	0.00	-17.17
6	365.94	33.4 QP	46.00	-12.60	2.04H	64	15.70	14.33	3.40	0.00	-17.73
7	447.26	34.5 QP	46.00	-11.50	1.63H	238	15.20	16.04	3.23	0.00	-19.27

NOTE:

1. Emission level = Raw Value – Correction Factor
2. Correction Factor = Pre-Amplifier Factor - Antenna Factor - Cable Factor
3. Pre-Amplifier Factor = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
4. The other emission levels were very low against the limit.
5. Margin value = Emission level – Limit value.
6. “*” : Fundamental frequency

EUT	Wireless earphone	MODEL	MH-4000E
MODE	Channel frequency	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	3.6VDC	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
*1	40.66	52.6 QP	60.00	-7.40	2.43V	336	38.70	11.87	2.08	0.00	-13.95
2	121.47	29.5 QP	43.50	-14.00	1.08V	21	15.80	11.22	2.46	0.00	-13.69
3	162.65	29.2 QP	43.50	-14.30	1.41V	61	17.50	9.04	2.62	0.00	-11.66
4	243.87	29.2 QP	46.00	-16.80	1.25V	87	15.30	11.07	2.87	0.00	-13.93
5	249.57	31.2 QP	46.00	-14.80	1.17V	100	16.80	11.50	2.89	0.00	-14.39
6	365.92	34.9 QP	46.00	-11.10	1.21V	165	17.20	14.33	3.40	0.00	-17.73
7	447.24	33.5 QP	46.00	-12.50	1.12V	96	14.20	16.04	3.23	0.00	-19.27

NOTE:

1. Emission level = Raw Value – Correction Factor
2. Correction Factor = Pre-Amplifier Factor - Antenna Factor - Cable Factor
3. Pre-Amplifier Factor = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
4. The other emission levels were very low against the limit.
5. Margin value = Emission level – Limit value.
6. "*" : Fundamental frequency

4.3 FREQUENCY STABILITY MEASUREMENT

4.3.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of –20 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ANRITSU SPECTRUM ANALYZER	MS2667C	M10281	Mar 13, 2002
WIT STANDARD TEMPERATURE AND HUMIDITY CHAMBER	TH-4S-C	W901030	Jun 13, 2002

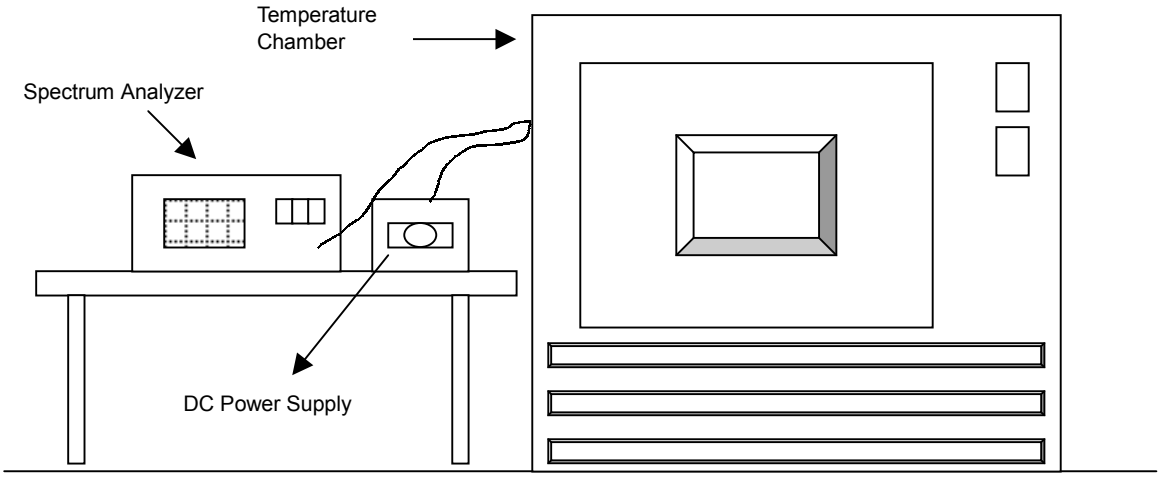
NOTE:
1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURE

1.

1. The EUT was situated inside the environmental test chamber and supply the EUT with nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
4. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
5. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.3.4 TEST SETUP



4.3.5 EUT OPERATING CONDITION

Same as Item 4.1.5

4.3.6 TEST RESULTS

Operating frequency:40.685000MHz		Limit : ± 0.01%					
Temperature Degree C	**Power supply (VDC)**	**2 minute**		**5 minute**		**10 minute**	
		(MHz)	**(%)**	**(MHz)**	**(%)**	**(MHz)**	**(%)**
50	3.06	40.685018	0.0000%	40.685098	0.0002%	40.685178	0.000%
	3.6	40.685178	0.0004%	40.684898	-0.0003%	40.685618	0.002%
	4.14	40.685258	0.0006%	40.685178	0.0004%	40.684858	0.000%
40	3.06	40.684718	-0.0007%	40.685338	0.0008%	40.685218	0.001%
	3.6	40.685818	0.0020%	40.685418	0.0010%	40.685118	0.000%
	4.14	40.685818	0.0020%	40.685618	0.0015%	40.685418	0.001%
30	3.06	40.685918	0.0023%	40.685618	0.0015%	40.685718	0.002%
	3.6	40.686118	0.0027%	40.686018	0.0025%	40.685218	0.001%
	4.14	40.686018	0.0025%	40.686218	0.0030%	40.685918	0.002%
20	3.06	40.685818	0.0020%	40.686018	0.0025%	40.685618	0.002%
	3.6	40.686618	0.0040%	40.686218	0.0030%	40.686018	0.003%
	4.14	40.686218	0.0030%	40.685518	0.0013%	40.685818	0.002%
10	3.06	40.686258	0.0031%	40.685698	0.0017%	40.685938	0.002%
	3.6	40.685738	0.0018%	40.686198	0.0029%	40.685858	0.002%
	4.14	40.686178	0.0029%	40.686258	0.0031%	40.685458	0.001%
0	3.06	40.686458	0.0036%	40.687098	0.0052%	40.686058	0.003%
	3.6	40.686658	0.0041%	40.686578	0.0039%	40.686298	0.003%
	4.14	40.686578	0.0039%	40.685858	0.0021%	40.686538	0.004%
-10	3.06	40.686218	0.0030%	40.686698	0.0042%	40.686658	0.004%
	3.6	40.686778	0.0044%	40.686618	0.0040%	40.686778	0.004%
	4.14	40.687178	0.0054%	40.687058	0.0051%	40.686938	0.005%
-20	3.06	40.687178	0.0054%	40.687058	0.0051%	40.686958	0.005%
	3.6	40.687218	0.0055%	40.686018	0.0025%	40.686938	0.005%
	4.14	40.686498	0.0037%	40.686898	0.0047%	40.686098	0.003%

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

RADIATED EMISSION TEST

6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.
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The address and road map of all our labs can be found in our web site also.