

FCC Part 15 Subpart C
EMI TEST REPORT
of

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

FCC ID. : PG8101E01

MODEL : AH-101E

Working Frequency : 40.680 MHz

for

APPLICANT : Aero Communication Co., Ltd.

ADDRESS : 2F, No. 121, Shing De Rd., San Chung City,
Taipei Hsien, Taiwan, R.O.C.

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN

NO. 34, LIN 5, DING FU TSUN, LINKOU HSIANG,
TAIPEI HSIEN, TAIWAN, R.O.C.

Tel:(02)26023052, 26023054

Fax:(02)26010910

Report Number : ET90R-09-036-02

TEST REPORT CERTIFICATION

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

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 Ear Set
b) Trade Name : Aero
c) Model No. : AH-101E
d) FCC ID : PG8101E01
e) Working Frequency : 40.680 MHz
f) Power Supply : (1) Internal: DC 3.6V Li-ion Battery or
(2) External: AC Adaptor
(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 founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Issued Date : Oct. 16, 2001

Test Engineer : Tien Lu Liau
(Tien Lu Liaou)

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

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b) Trade Name : Aero
c) Model No. : AH-101E
d) FCC ID : PG8101E01
e) Working Frequency : 40.680 MHz
f) Power Supply : (1) Internal: DC 3.6V Li-ion Battery or
(2) External: AC Adaptor
(Model: KAD12D0600300;
I/P: 120VAC, 60Hz,
O/P: 6VDC, 300mA)

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

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1. GENERAL INFORMATION

1.1 Product Description

a) Type of EUT	: Wireless Hands-free Ear Set
b) Trade Name	: Aero
c) Model No.	: AH-101E
d) FCC ID	: PG8101E01
e) Working Frequency	: 40.680 MHz
f) Power Supply	: (1) Internal: DC 3.6V Li-ion Battery or (2) External: AC Adaptor (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 Ear 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 Ear 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 15.229 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	
	$\mu\text{V}/\text{meter}$	$\text{dB}\mu\text{V}/\text{meter}$
40.66-40.70	1000	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 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) Frequency Tolerance Of The Carrier Signal Limits :

According to 15.229(d), the frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degree 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. For battery operated equipment, the equipment tests shall be performed using a new battery.

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 100 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:

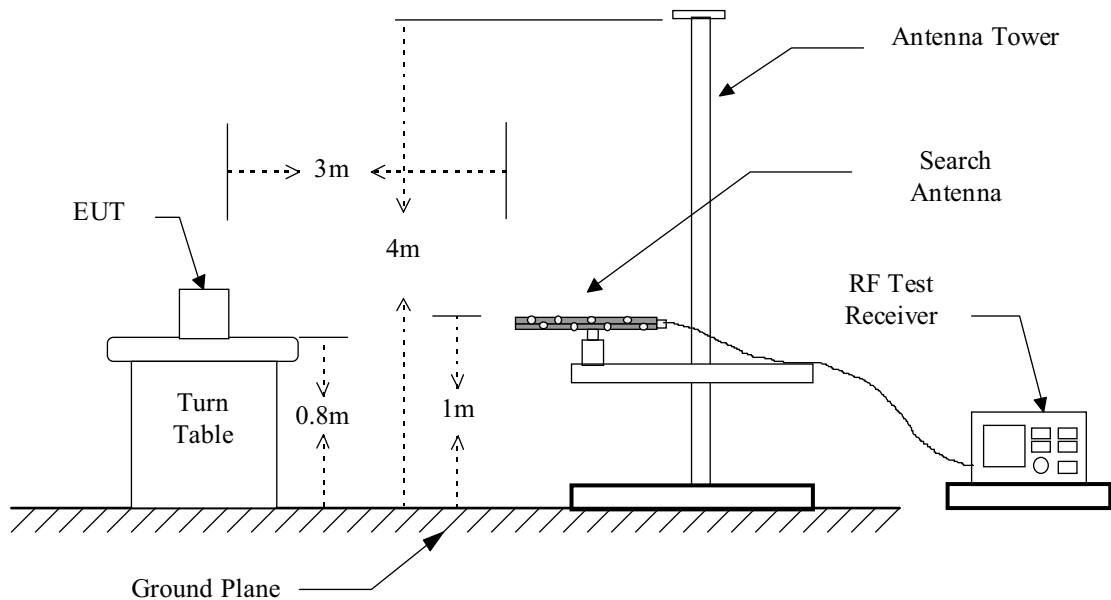
1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the 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

Operation Mode : TX/RX Power Source : AC Adaptoer
 Operation Frequency : TX: 40.680 MHz, RX: 49.860 MHz
 Test Date: Oct. 09, 2001 Temperature : 23 °C Humidity: 61 %

Frequency (MHz)	Meter Reading (dBuV) H V		Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
*49.860	---	---	-14.1	---	40.0	---	---	---
*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	---	---	---
40.678	59.6	69.9	-12.0	57.9	60.0	-2.1	270	1.00
81.356	---	---	-14.9	---	40.0	---	---	---
122.034	---	---	-10.9	---	43.5	---	---	---
162.712	---	---	-9.4	---	43.5	---	---	---
203.390	---	---	-6.9	---	43.5	---	---	---
244.068	---	---	-4.3	---	46.0	---	---	---
284.746	---	---	-2.4	---	46.0	---	---	---
325.424	---	---	-6.8	---	46.0	---	---	---
366.102	---	---	-7.5	---	46.0	---	---	---
406.780	---	---	-6.2	---	46.0	---	---	---

Note :

1. Remark “---” means that the emission level is too low to be measured.
2. Remark “*” means that the emission frequency is produced from local oscillator.
3. 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

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	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

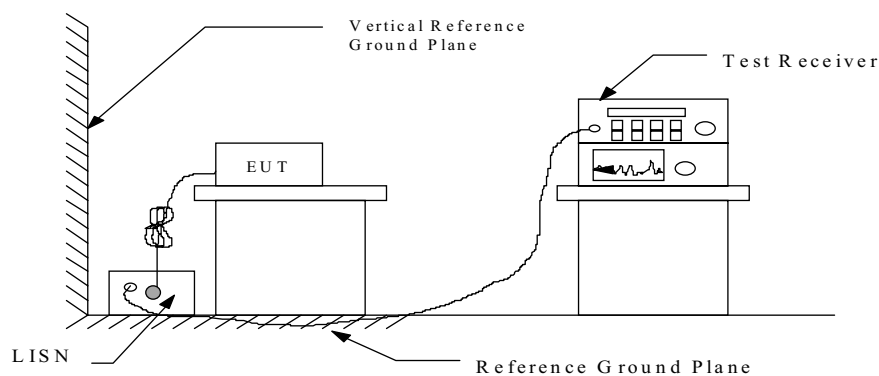
4.1 Standard Applicable

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 : TX/RX

Test Date : Oct. 09, 2001

Temperature : 26 °C

Humidity: 58 %

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	N	L1		N	L1		
0.454	24.6	28.4	0.2	24.8	28.6	48.0	-19.4
0.494	25.2	31.2	0.2	25.4	31.4	48.0	-16.6
0.563	25.4	30.8	0.2	25.6	31.0	48.0	-17.0
0.609	24.8	31.0	0.2	25.0	31.2	48.0	-16.8
0.669	25.2	32.0	0.2	25.4	32.2	48.0	-15.8
0.777	23.4	29.4	0.3	23.7	29.7	48.0	-18.3
1.379	25.4	26.6	0.3	25.7	26.9	48.0	-21.1
9.343	17.4	20.8	0.5	17.9	21.3	48.0	-26.7

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:

$$RESULT = READING + LISN FACTOR$$

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.

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

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

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	12/29/2001
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 THE FREQUENCY TOLERANCE OF THE CARRIER SIGNAL MEASUREMENT

6.1 Standard Applicable

According to 15.229(d), the frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ 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 degree C. For battery operated equipment, the equipment tests shall be performed using a new battery.

6.2 Measurement Procedure

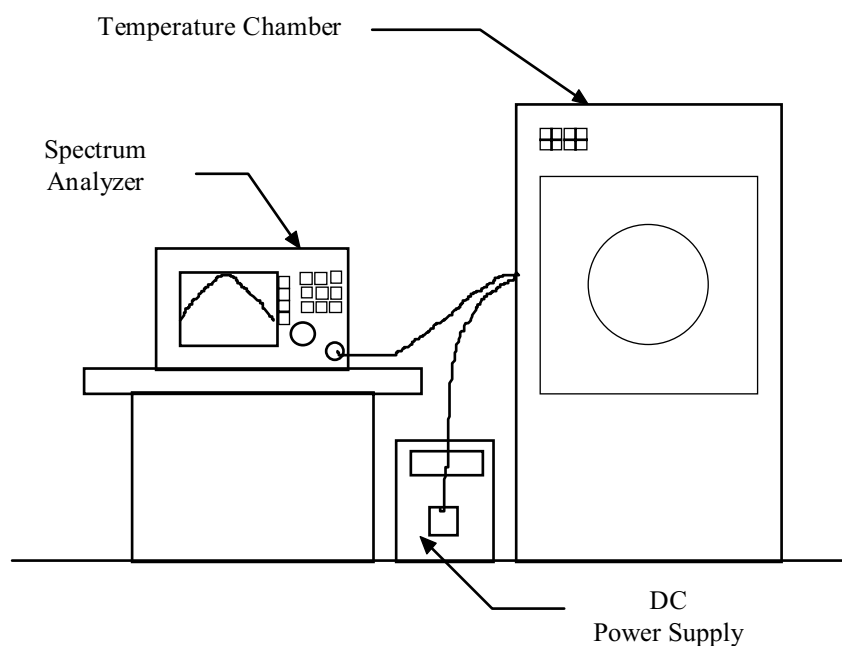
A) Frequency stability versus environmental temperature

1. Setup the configuration per figure 4 for frequencies measured at ambient temperature if it is within 15°C to 25°C . Otherwise, an environmental chamber set for a temperature of 20°C shall be used. Install new batteries in the EUT.
2. Turn on EUT and set SA center frequency to the right frequency needs to be measured. Then set SA RBW to 30 kHz, VBW to 100kHz and frequency span to 500 kHz. Record this frequency to be a reference.
3. Set the temperature of chamber to 50°C . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
4. Repeat step 2 with a 10°C decreased per stage until the lowest temperature -30°C is measured, record all measurement frequencies.

B) Frequency stability versus input voltage

1. Setup the configuration per figure 4 for frequencies measured at ambient temperature if it is within 15°C to 25°C . Otherwise, an environmental chamber set for a temperature of 20°C shall be used. Install new batteries in the EUT.
2. Set SA center frequency to the right frequency needs to be measured. Then set SA RBW to 30 kHz, VBW to 100kHz and frequency span to 500 kHz. Record this frequency to be a reference.
3. For battery operated only device, supply the EUT primary voltage at the battery operating end point which is specified by the manufacturer and record the frequency.

Figure 4 : Frequency stability measurement configuration



6.3 Measurement Instrument

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Hewlett-Packard	8564E	04/22/2002
Temperature Chamber	ACS	EOS 200T	01/17/2002
Modulation Analyzer	Hewlett-Packard	8901A	12/01/2001
Multifunction Synthesizer	Hewlett-Packard	8904A	11/24/2001

6.4 Measurement Data

A) Frequency stability versus environmental temperature

1. Power Supply from Battery

Reference Frequency: 40.680 (MHz)		Limit: 0.01 (%)					
Environment Tempure (°C)	Power Supplied (Vdc)	Frequency deviation measured with time elapse					
		2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	New Battery	40.6791	-0.0022	40.6787	-0.0032	40.6787	-0.0032
40		40.6803	0.0007	40.6821	0.0052	40.6818	0.0044
30		40.6780	-0.0049	40.6793	-0.0017	40.6791	-0.0022
20		40.6809	0.0022	40.6802	0.0005	40.6801	0.0002
10		40.6779	-0.0052	40.6795	-0.0012	40.6800	0.0000
0		40.6830	0.0074	40.6780	-0.0049	40.6825	0.0061
-10		40.6797	-0.0007	40.6791	-0.0022	40.6781	-0.0047
-20		40.6799	-0.0002	40.6775	-0.0061	40.6831	0.0076

2. Power Supply from AC Adaptor

Reference Frequency: 40.680 (MHz)		Limit: 0.01 (%)					
Environment Temperture (°C)	Power Supplied (Vac)	Frequency deviation measured with time elapse					
		2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	102.00	40.6787	-0.00310	40.6811	0.00276	40.6771	-0.00719
	120.00	40.6829	0.00716	40.6779	-0.00510	40.6781	-0.00475
	138.00	40.6830	0.00749	40.6798	-0.00060	40.6806	0.00150
40	102.00	40.6779	-0.00520	40.6805	0.00125	40.6799	-0.00028
	120.00	40.6786	-0.00351	40.6798	-0.00057	40.6821	0.00515
	138.00	40.6796	-0.00109	40.6799	-0.00022	40.6792	-0.00185
30	102.00	40.6793	-0.00166	40.6810	0.00257	40.6831	0.00753
	120.00	40.6785	-0.00379	40.6775	-0.00625	40.6816	0.00401
	138.00	40.6793	-0.00170	40.6815	0.00374	40.6823	0.00574
20	102.00	40.6814	0.00336	40.6774	-0.00643	40.6787	-0.00310
	120.00	40.6796	-0.00088	40.6784	-0.00388	40.6770	-0.00741
	138.00	40.6828	0.00696	40.6791	-0.00218	40.6803	0.00080
10	102.00	40.6779	-0.00510	40.6793	-0.00173	40.6785	-0.00377
	120.00	40.6795	-0.00115	40.6823	0.00576	40.6770	-0.00733
	138.00	40.6798	-0.00055	40.6781	-0.00459	40.6812	0.00301
0	102.00	40.6808	0.00201	40.6809	0.00228	40.6829	0.00706
	120.00	40.6791	-0.00221	40.6776	-0.00590	40.6822	0.00539
	138.00	40.6778	-0.00531	40.6827	0.00665	40.6791	-0.00215
-10	102.00	40.6813	0.00309	40.6772	-0.00687	40.6793	-0.00178
	120.00	40.6821	0.00513	40.6811	0.00272	40.6798	-0.00059
	138.00	40.6803	0.00085	40.6825	0.00617	40.6812	0.00284
-20	102.00	40.6803	0.00072	40.6802	0.00049	40.6793	-0.00176
	120.00	40.6818	0.00444	40.6819	0.00460	40.6805	0.00133
	138.00	40.6820	0.00498	40.6796	-0.00096	40.6781	-0.00475

B) Frequency stability versus input voltage (battery operating end point voltage is 2.9V dc)

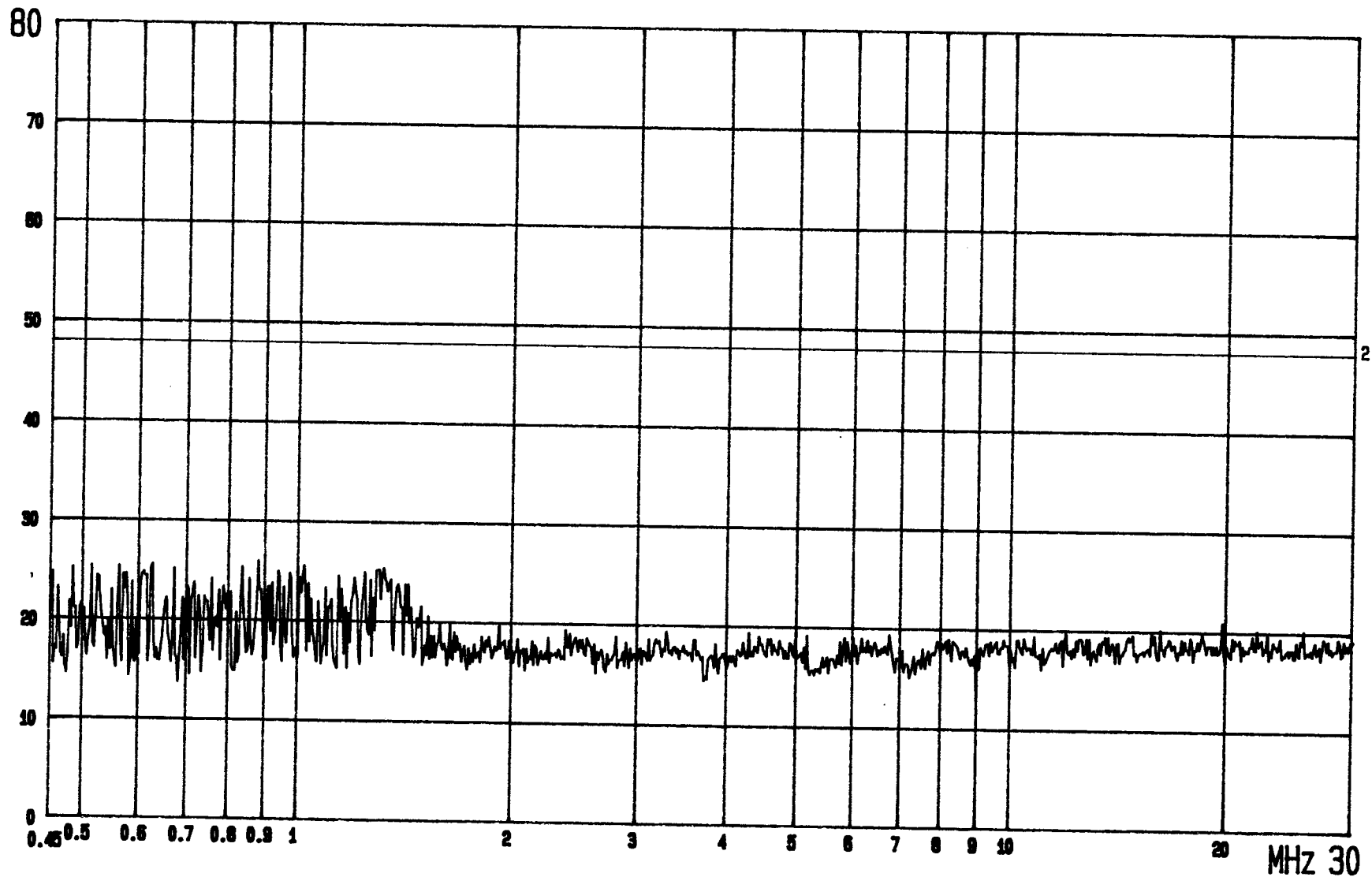
Reference Frequency: 40.680 (MHz)		Limit: 0.01 (%)					
Environment Temperture (°C)	Power Supplied (Vdc)	Frequency deviation measured with time elapse					
		2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
25	2.9	40.6803	0.0007	40.6829	0.0071	40.6778	-0.0054

Note :

1. Remark “---” means that the EUT is no function.
2. The expanded uncertainty of the frequency tolerance of the carrier signal tests is 2.45 dB.

Appendix 1 : Plotted Data For Conducted Emission

dBuV



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FCC CONDUCTED TEST

MODEL: AH-101E Mode: Charging

EUT: Wireless Hands-free Ear Set

ADAPTER: I/P=120VAC/60HZ; O/P=6VDC

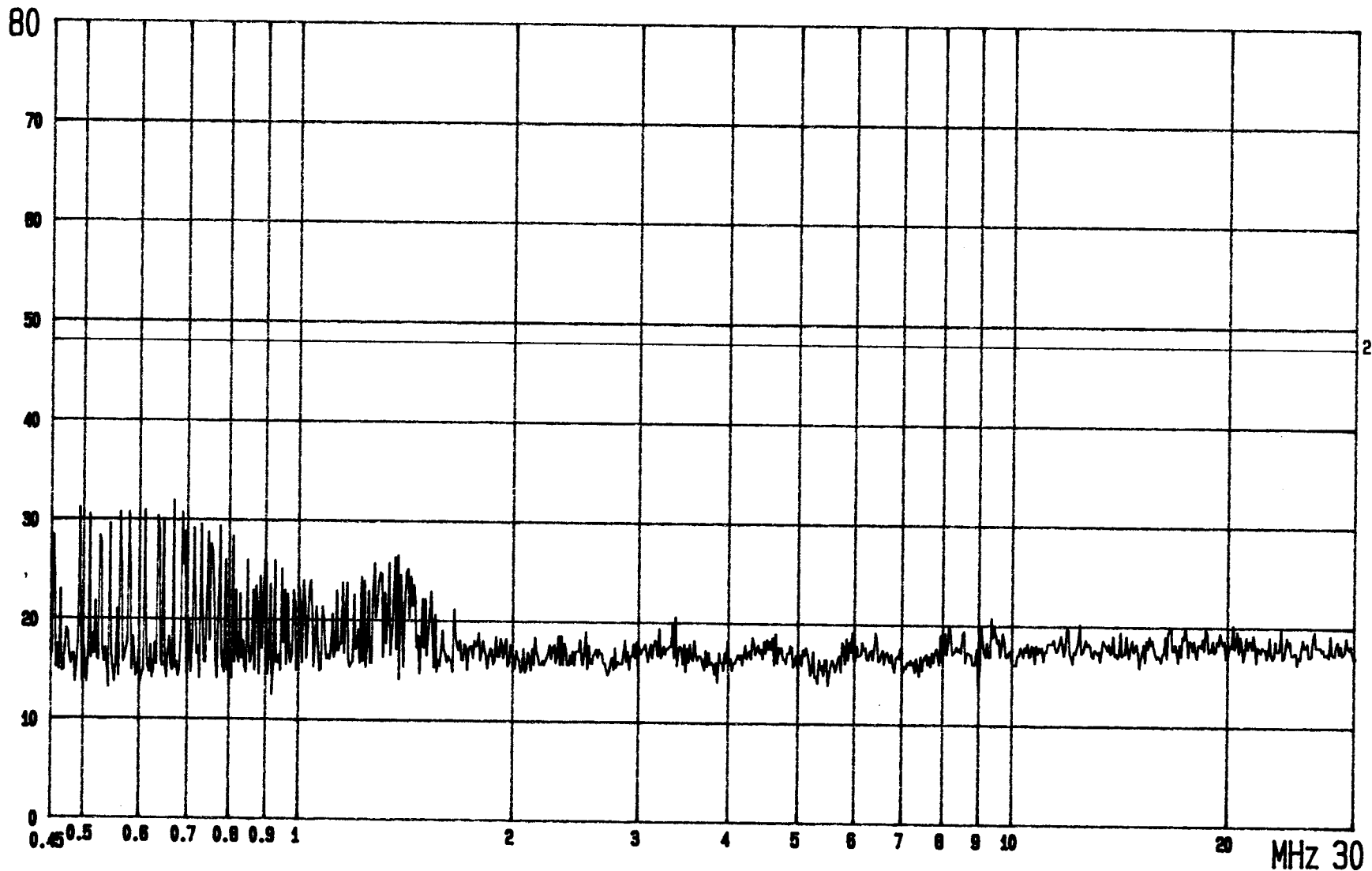
2: QP

., CLASS B LIMIT

LISN: N

ETC EMI LAB.

dBuV



FCC CONDUCTED TEST EUT: Wireless Hands-free Ear Set 2: QP ., CLASS B LIMIT
MODEL: AH-101E Mode: Charging ADAPTER: I/P=120VAC/60HZ; O/P=6VDC LISN: L1 ETC EMI LAB.