

EMI TESTING REPORT

EUT : LUCY TABLET

MODEL : ET-0405-R, ET-0405-U

FCC ID : IXMET-0405

PREPARED FOR :

UNIVERSAL SCIENTIFIC INDUSTRIAL CO., LTD.

141, LANE 351, TAIPING RD., SEC. 1,

TSAO TUEN, NAN-TOU,

TAIWAN, R.O.C.

PREPARED BY :

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1. TEST REPORT CERTIFICATION

APPLICANT : UNIVERSAL SCIENTIFIC INDUSTRIAL CO., LTD.
ADDRESS : 141, LANE 351, TAIPING RD., SEC. 1,
TSAO TUEN, NAN-TOU,
TAIWAN, R.O.C.

EUT DESCRIPTION : LUCY TABLET
(A) POWER SUPPLY : FROM PC
(B) MODEL : ET-0405-R, ET-0405-U
(C) FCC ID : IXMET-0405
FINAL TEST DATE : 05/12/1999

MEASUREMENT PROCEDURE USED :

- * PART 15 SUB PART B OF FCC RULES AND REGULATIONS (47 CFR PART 15)
- * ANSI C63.4 - 1992

We hereby show that :

The measurement shown in the attachment were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable.

TESTING ENGINEER : Eric Wu DATE 5/12/1999
Eric Wu

SUPERVISOR : Jesse Ho DATE 5/12/99
Jesse Ho *Auth.*

APPROVED BY : Johnson Ho DATE 5/12/99
Johnson Ho

2. TEST STATEMENT

2.1 TEST STATEMENT

1. This letter is to explain the test condition of this project.
The EUT be tested as the following status.
2. The data was shown in this report reflects the worst – case data for the condition as listed above.
Please disregard any other oricessir(s) speed shown in this user manual.
3. EUT conditions.

CPU : PENTIUM MMX 166MHz

Clock Chip : 66MHz

Operating frequency : 750KHz

4. NVLAP logo is to be approved by management (it is according to NVLAP requirement if it need) before use.

2.2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS , THE STATEMNT

A. Did have

Any departure from document policies & procedures or from specifications.

Yes _____ No ✓

If yes, the description as below.

B. The certificate and report shall not be reproduced except in full, without the written approval of SRT laboratory.

C. The report must not be used by the client to claim product endorsement by NVLAP or any agency the government.

D. This product is a prototype product.

E. The effect that the results relate only to the items tested.

3. EUT MODIFICATIONS

The following accessories were added to the EUT during testing :

No modifications by SRT lab.

4. MODIFICATION LETTER

This section contains the following documents :

- A. Letter of modifications.

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5. CONDUCTED POWER LINE TEST

5.1 TEST EQUIPMENT

The following test equipment were used during the conducted power line test :

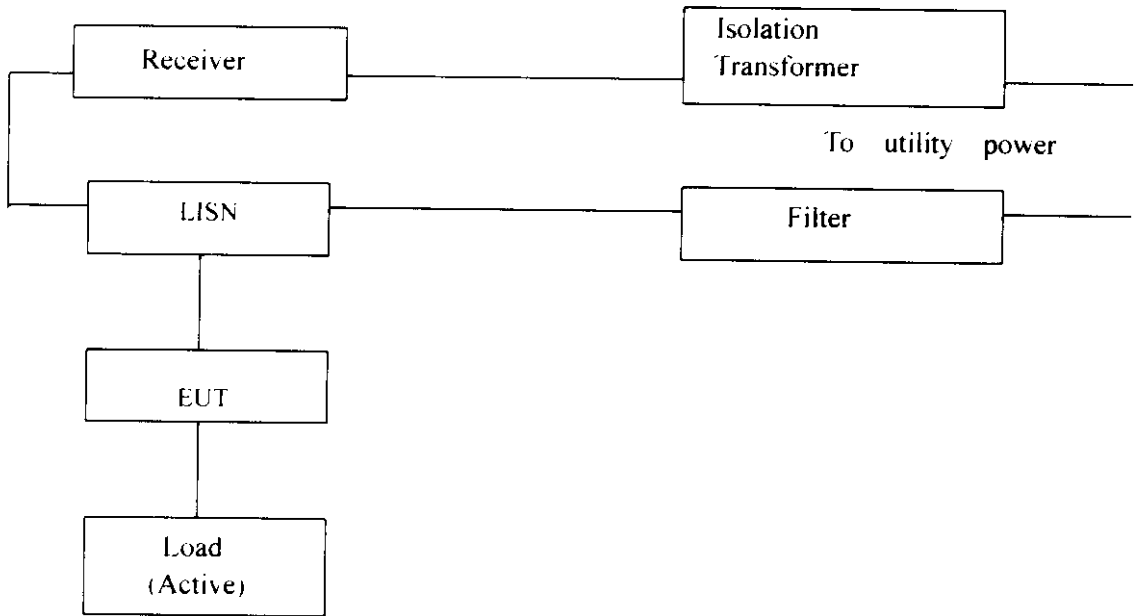
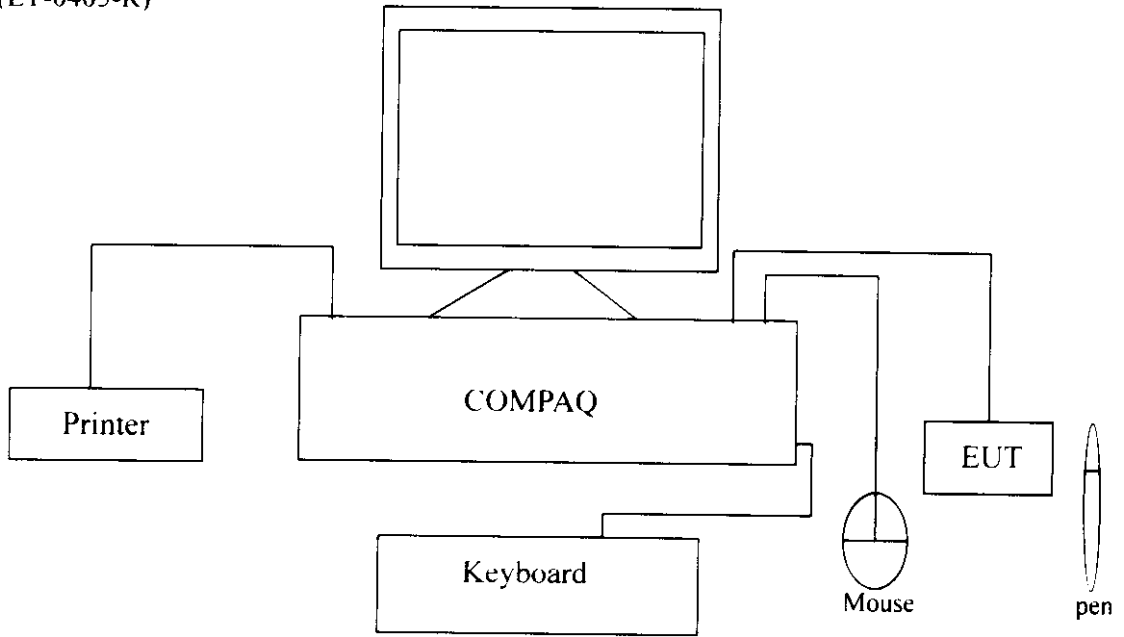
EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE	FINAL TEST
SPECTRUM ANALYZER	9 KHz TO 1 GHz	HP	8590L 3624A01317	AUGUST 1998 ETC	1Y	
EMI TEST RECEIVER	9 KHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30 826003/008	AUGUST 1998 ETC	1Y	√
LISN	50 uH. 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC 951315	AUGUST 1998 ETC	1Y	√
LISN	50uH. 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC 951318	AUGUST 1998 ETC	1Y	√
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01 841104/019	APRIL 1999 ETC	1Y	√
POWER CONVERTER	0 TO 300 VAC VAC 47-500 Hz	AFC	AFC-1KW 850510	MARCH 1999 SRT	1Y	√

5.2 TEST PROCEDURE

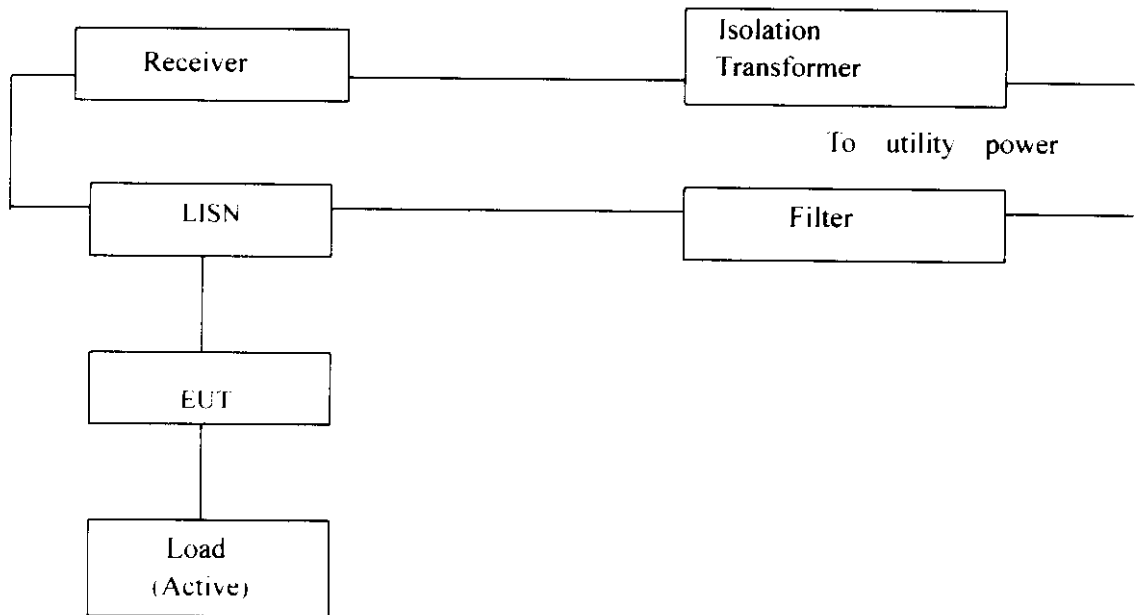
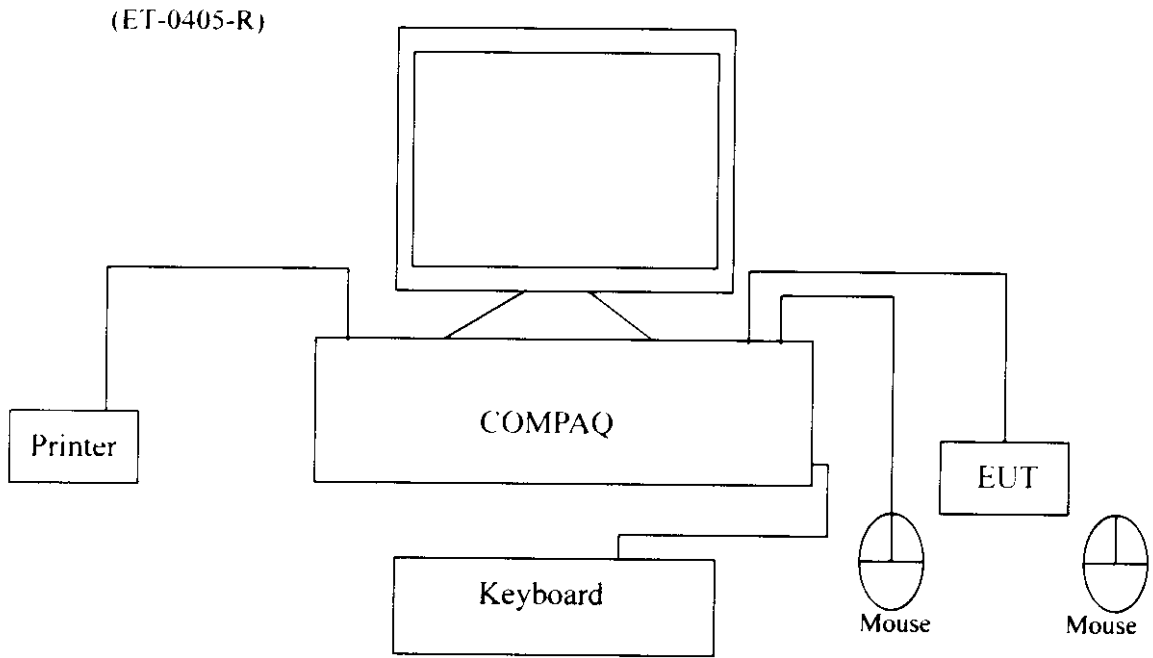
The EUT was tested according to ANSI C63.4-1992. The frequency spectrum from 0.45 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 uhenry as specified by SECTION 5.1 of ANSI C63.4-1992. Cables and peripherals were moved to find the maximum emission levels for each frequency.

5.3 TEST SETUP

(ET-0405-R)

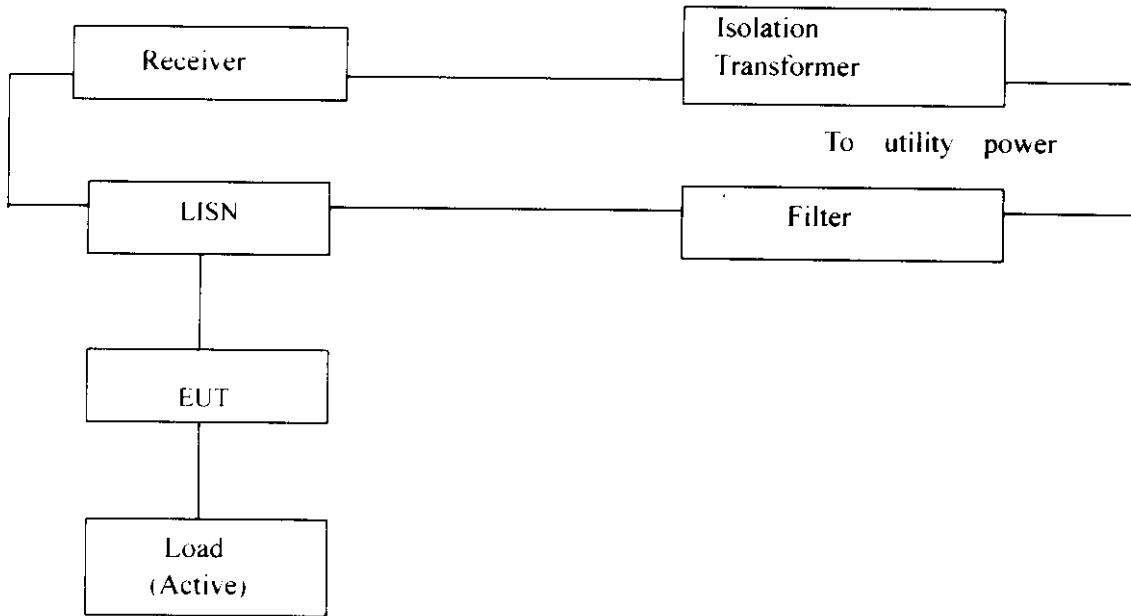
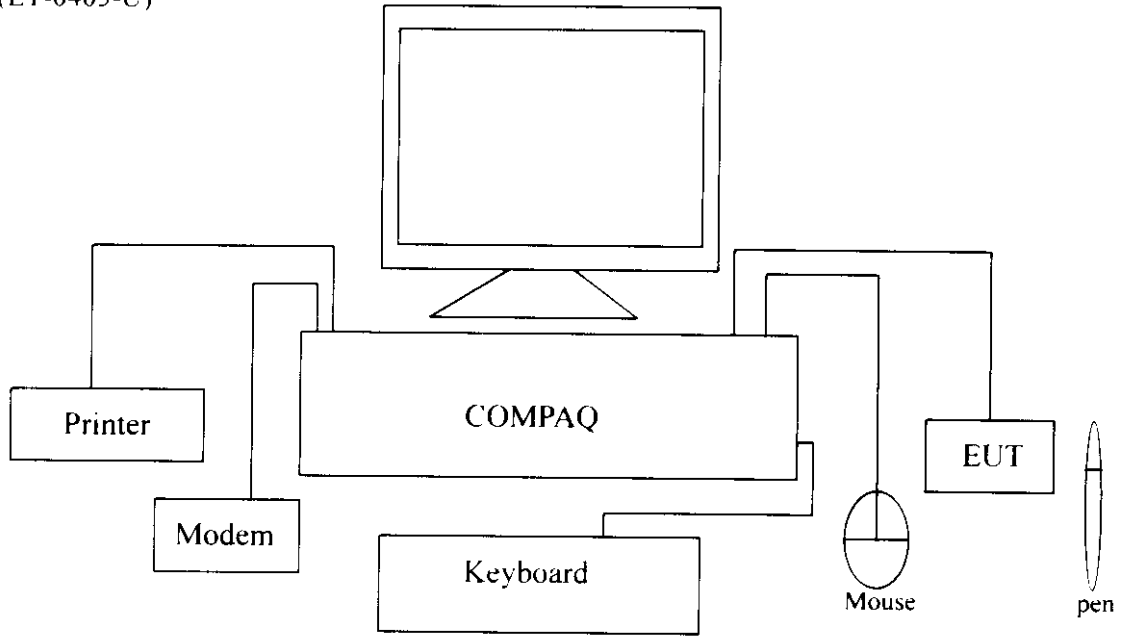


5.3 TEST SETUP

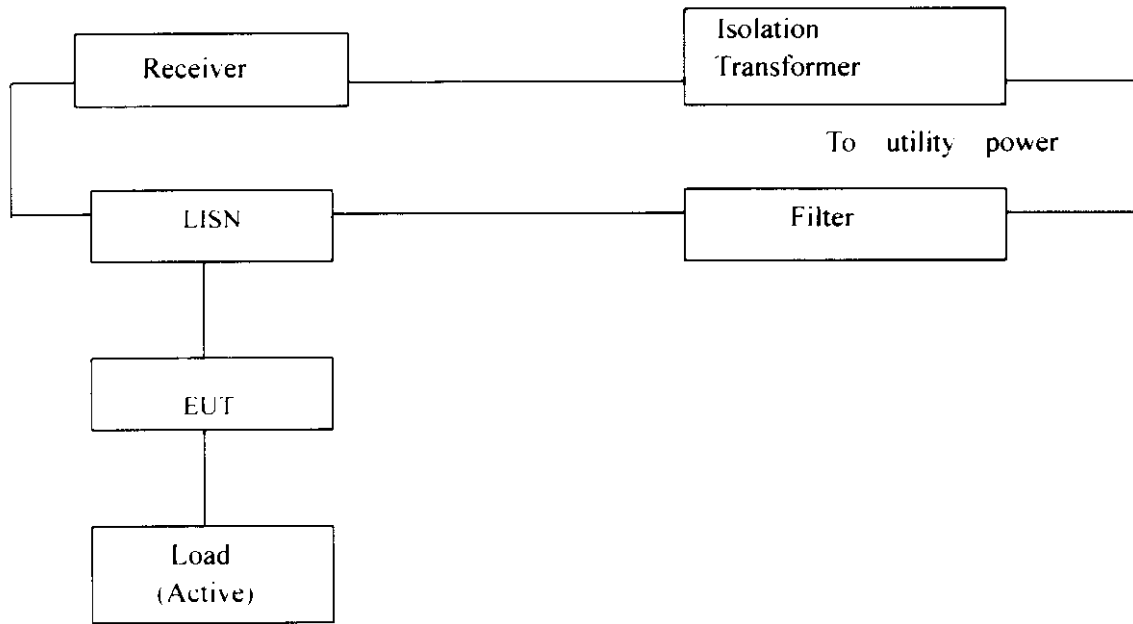
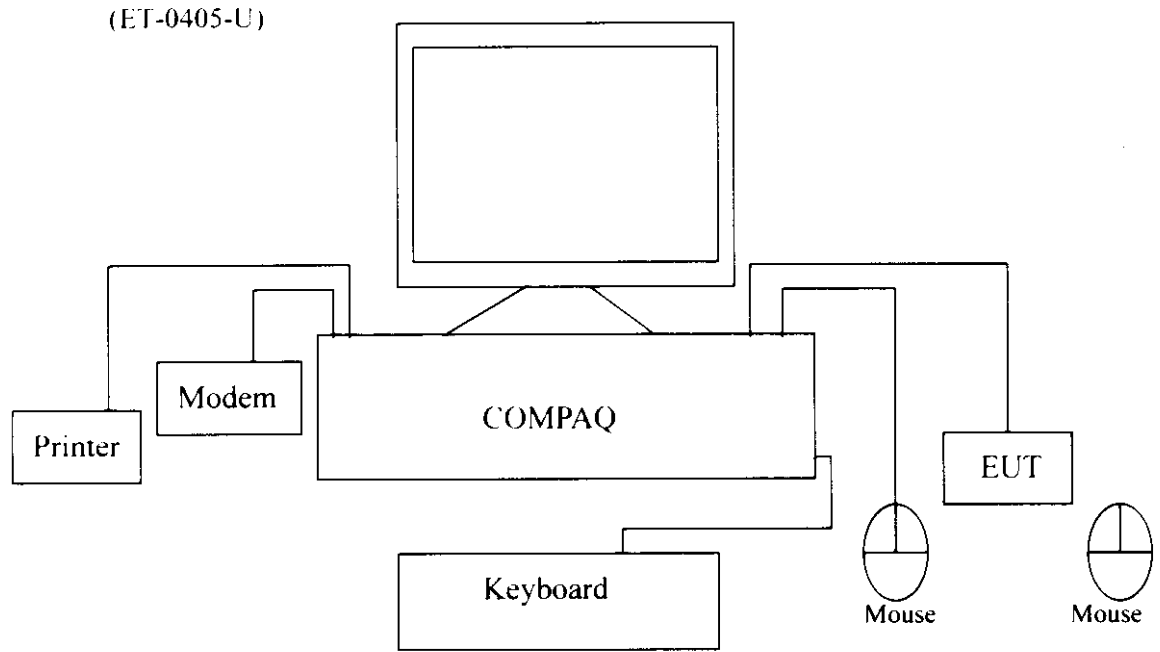


5.3 TEST SETUP

(ET-0405-U)



5.3 TEST SETUP



C. PERIPHERALS

DEVICE	MANUFACTURER	MODEL # SERIAL #	FCCID / DoC	CABLE	REMARK
MONITOR	PHILIPS	14B1320W	A3KM064	1.8m unshielded power cord 1.5m shielded data cable (S2)	
PRINTER	HP	2225C	BS46XU2225C	1.8m unshielded power cord 1.2m shielded data cable (S2)	
MODEM	TEAM	1200AT	EF56A51200AT	1.8m unshielded power cord 1.2m shielded data cable (S2)	Only supply : ET-0405-U
KEYBOARD	COMPAQ	286241-ABS	AQ6-71Z15	1.8m unshielded data cable	
MOUSE	COMPAQ	M-S34	DZL210472	1.8m unshielded data cable	
PC	COMPAQ	3431	EUN3431	1.8m unshielded power cord	
PEN	USI	EP-100	N A	N.A	
MOUSE	USI	EC-100	N A	N.A	

- REMARK :

- (1). Cable - uns : Unshielded
 s : Shielded
 S1 : Single point shielding
 S2 : 360° shielding
 S3 : Double point shielding
- (2). Cables - All 1m or greater in length – bundled according to ANSI C63.4 - 1992.

5.5 EUT OPERATING CONDITION

Operating condition is according to ANSI C63.4 - 1992.

1. EUT power on.
2. "H" pattern sent to the following peripherals :
 - printer
 - monitor
 - modem
3. Test with CPU
 CPU : Pentium MMX 166MHz. clock chip : 66MHz
4. Operating frequency : 750KHz

5.6 CONDUCTED POWER LINE EMISSION LIMIT

FREQUENCY RANGE (MHz)	CLASS A	CLASS B
0.45 - 1.705	1000 uV	250 uV
1.705 - 30	3000 uV	250 uV

NOTE : In the above table, the tighter limit applies at the band edges.

5.7 CONDUCTED POWER LINE TEST RESULT

The frequency spectrum from 0.45 MHz to 30 MHz was investigated. All readings are quasi-peak values with a resolution bandwidth of 9 KHz.

Temperature : 22 C

Humidity : 50 %RH

QUASI-PEAK

FREQUENCY (MHz)	LINE1 (uV)	LINE2 (uV)	LIMIT (uV)
1.88	60.26	*	250
3.56	*	158.5	250
3.78	144.5	175.8	250
6.31	*	125.9	250
18.7	81.28	82.22	250

- REMARKS :**
- (1). * = Measurement does not apply for this frequency
 - (2). Uncertainty in conducted emission measured is <+/-2dB
 - (3). Any departure from specification : N/A
 - (4). CPU : Pentium MMX 166MHz Clock chip : 66MHz
 - (5). ET-0405-R → Serial port
 - (6). Pen

SIGNED BY TESTING ENGINEER : Eric

5.7 CONDUCTED POWER LINE TEST RESULT

The frequency spectrum from 0.45 MHz to 30 MHz was investigated. All readings are quasi-peak values with a resolution bandwidth of 9 KHz.

Temperature : 22 C

Humidity : 50 %RH

QUASI-PEAK

FREQUENCY (MHz)	LINE1 (uV)	LINE2 (uV)	LIMIT (uV)
0.87	41.69	54.33	250
1.95	58.88	*	250
3.70	144.5	171.8	250
6.79	72.44	131.8	250
11.3	*	97.72	250

- REMARKS :**
- (1). * = Measurement does not apply for this frequency
 - (2). Uncertainty in conducted emission measured is <+/-2dB
 - (3). Any departure from specification : N/A
 - (4). CPU : Pentium MMX 166MHz Clock chip : 66MHz
 - (5). ET-0405-R → Serial port
 - (6). Mouse

SIGNED BY TESTING ENGINEER : ZRT C

5.7 CONDUCTED POWER LINE TEST RESULT

The frequency spectrum from 0.45 MHz to 30 MHz was investigated. All readings are quasi-peak values with a resolution bandwidth of 9 KHz.

Temperature : 22 C

Humidity : 50 %RH

QUASI-PEAK

FREQUENCY (MHz)	LINE1 (uV)	LINE2 (uV)	LIMIT (uV)
0.47	56.23	*	250
0.94	35.48	56.89	250
3.70	125.9	173.8	250
6.59	65.31	*	250
19.1	*	65.31	250

- REMARKS :**
- (1). * = Measurement does not apply for this frequency
 - (2). Uncertainty in conducted emission measured is <+/-2dB
 - (3). Any departure from specification : N/A
 - (4). CPU : Pentium MMX 166MHz Clock chip : 66MHz
 - (5). ET-0405-U → USB port
 - (6). Pen

SIGNED BY TESTING ENGINEER : ZFTC

5.7 CONDUCTED POWER LINE TEST RESULT

The frequency spectrum from 0.45 MHz to 30 MHz was investigated. All readings are quasi-peak values with a resolution bandwidth of 9 KHz.

Temperature : 22 C

Humidity : 50 %RH

QUASI-PEAK

FREQUENCY (MHz)	LINE1 (uV)	LINE2 (uV)	LIMIT (uV)
0.93	43.65	57.54	250
3.48	123.0	125.9	250
3.75	151.3	169.8	250
12.5	59.57	*	250
18.7	*	72.44	250

- REMARKS :**
- (1). * = Measurement does not apply for this frequency
 - (2). Uncertainty in conducted emission measured is <+/-2dB
 - (3). Any departure from specification : N/A
 - (4). CPU : Pentium MMX 166MHz Clock chip : 66MHz
 - (5). ET-0405-U → USB port
 - (6). Mouse

SIGNED BY TESTING ENGINEER : Eric

6. RADIATED EMISSION TEST**6.1 TEST EQUIPMENT**

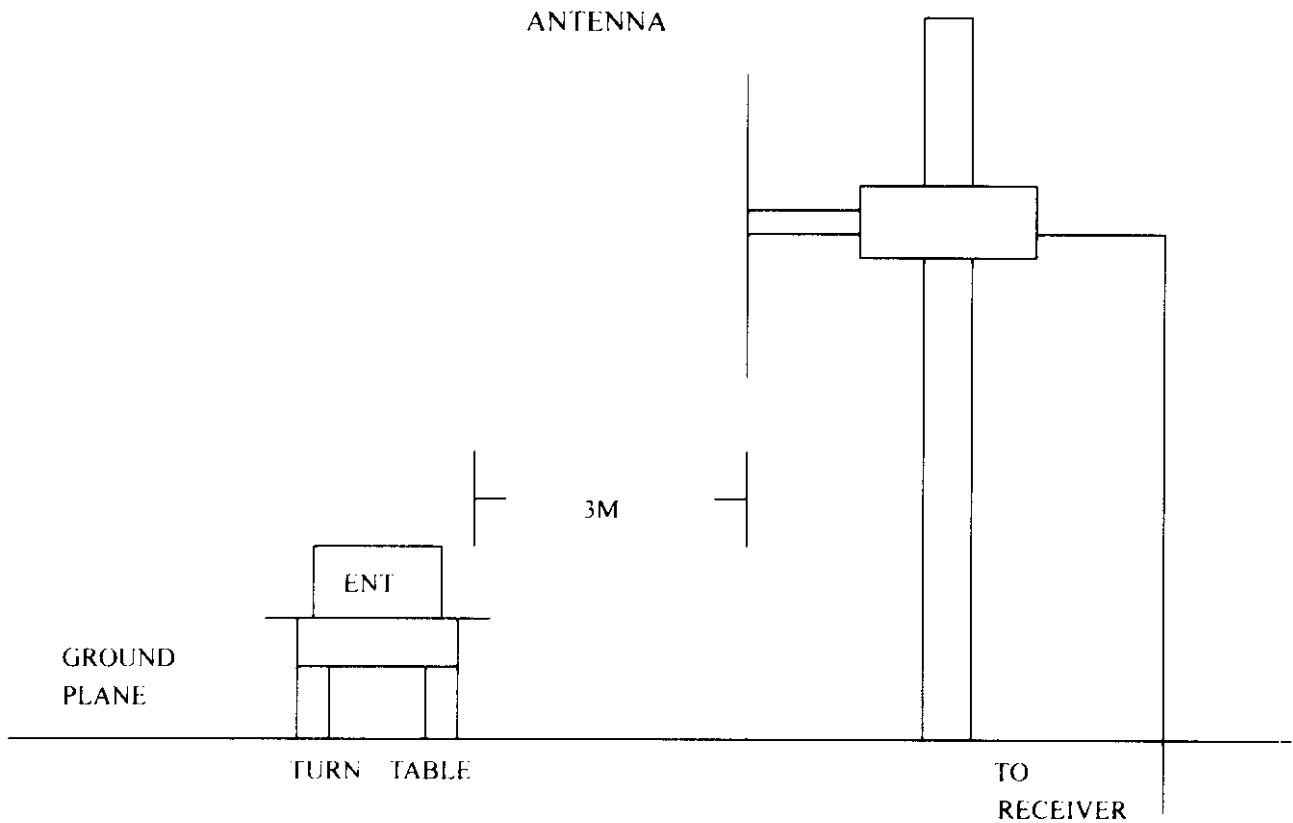
The following test equipment were used during the radiated emission test :

EQUIPMENT / FACILITIES	SPECIFICAT- IONS	MANUFACTUR - ER	MODEL # / SERIAL #	DATE OF CAL. & CAL. CENTER	DUE DATE	FINAL TEST
RECEIVER	20 MHz TO 1000 MHz	R & S	ESVS30 841977/003	APRIL 1999 ETC	1Y	√
SPECTRUM ANALYZER	100 Hz TO 1500 MHz	HP	8568B/ 3019A05294	OCT. 1998 ETC	1Y	
SPECTRUM ANALYZER	9 KHz TO 22 GHz	HP	8593E/ 3322A00670	APRIL 1999 ETC	1Y	
SPECTRUM ANALYZER	100 Hz TO 1000 MHz	IFR	A-7550 2684 1248	JULY 1998 ETC	1Y	
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01 841104/019	APRIL 1999 ETC	1Y	√
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C 9003-534	MARCH 1999 SRT	1Y	
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C 9611-1239	SEP. 1998 SRT	1Y	
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142 9608-1073	SEP. 1998 SRT	1Y	√
BI-LOG ANTENNA	26 MHz TO 1100 MHz	EMCO	3143 9509-1152	SEP. 1998 SRT	1Y	
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D 2944A08402	APRIL 1999 ETC	1Y	
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D 2944A06412	AUGUST 1998 ETC	1Y	
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115 9012-3619	JAN. 1999 EMCO	1Y	

6.2 TEST PROCEDURE

- (1).The EUT was tested according to ANSI C63.4-1992. The radiated test was performed at SRT lab's open site. this site is on file with the FCC laboratory division. reference 31040 SIT.
- (2).The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m. table high 0.8 m. All set up is according to ANSI C63.4-1992.
- (3).The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz. peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4).The antenna high were varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5).The antenna polarization : Vertical polarization and horizontal polarization.

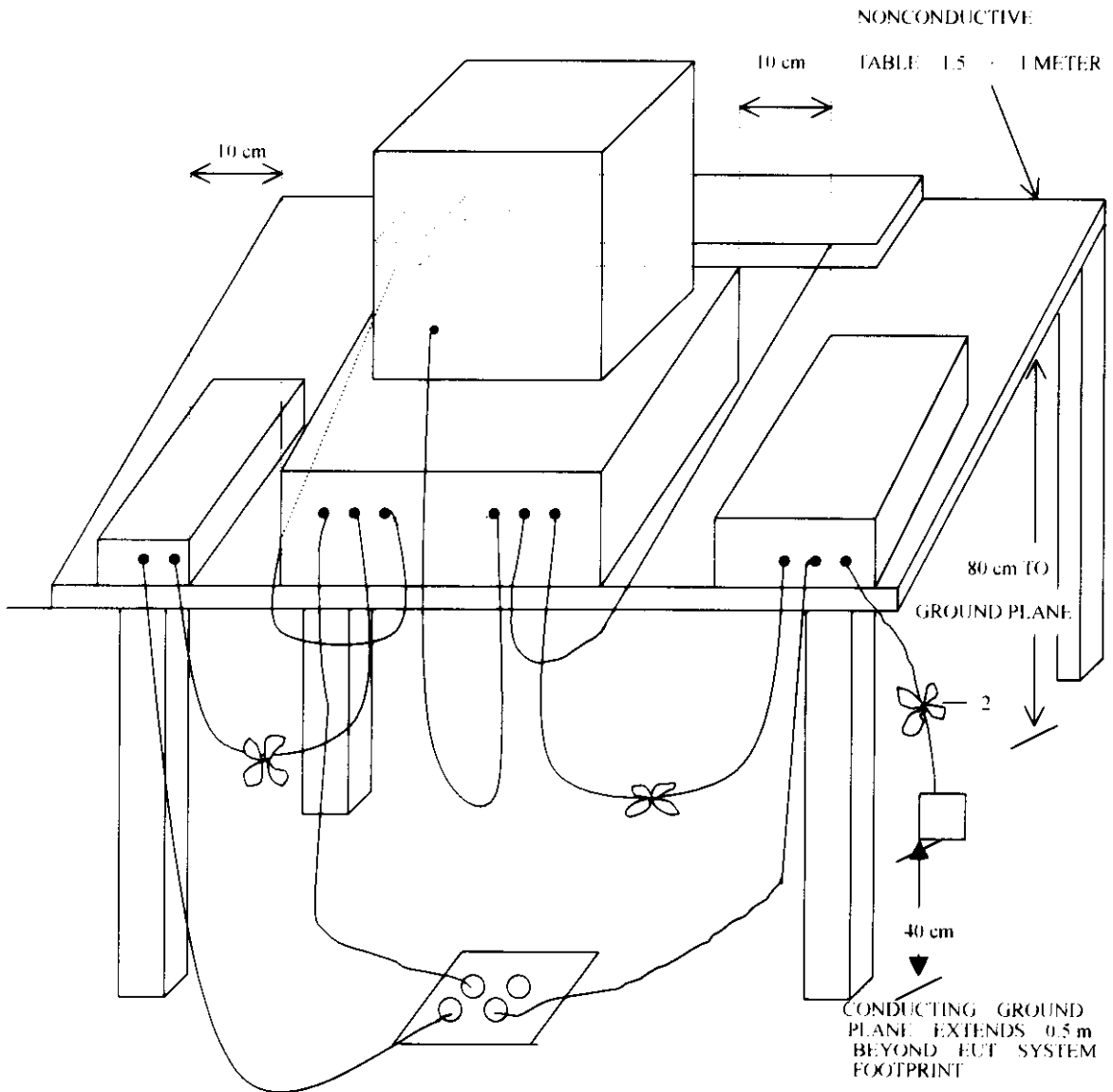
6.3 RADIATED TEST SET-UP



6.3 RADIATED TEST SET-UP

ANSI

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9 KHZ TO 40 GHZ C63.4-1992



6.4 CONFIGURATION OF THE THE EUT

Same as section 4.4 of this report

6.5 EUT OPERATING CONDITION

Same as section 4.5 of this report.

6.6 RADIATED EMISSION LIMIT

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

CLASS B

FREQUENCY (MHz)	DISTANCE (m)	FIELDS STRENGTH (uV/m)
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
ABOVE 960	3	500

CLASS B (OPEN CASE)

FREQUENCY (MHz)	DISTANCE (m)	FIELDS STRENGTH (uV/m)
30 - 88	3	199.5
88 - 216	3	298.5
216 - 960	3	398.1

CLASS A

FREQUENCY (MHz)	DISTANCE (m)	FIELDS STRENGTH (uV/m)
30 - 88	3	316.3
88 - 216	3	473.2
216 - 960	3	613.0
ABOVE 960	3	1000.0

- NOTE :**
1. In the emission tables above, the tighter limit applies at the band edges.
 2. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.

6.7 RADIATED EMISSION TEST RESULT

The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1GHz. peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.

Temperature : 25 C

Humidity : 50 %RH

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBuV)		EMISSION (uV/m)		LMTS (uV/m)
			HORIZ	VERT	HORIZ	VERT	
69.77	0.5	9.30	24.70	*	53.09	*	100
136.7	0.6	13.3	12.00	*	19.72	*	150
193.9	0.9	12.4	*	15.20	*	26.61	150
331.6	1.6	14.7	19.50	*	61.66	*	200
842.8	2.7	24.7	*	13.80	*	114.8	200

- REMARKS :**
- (1). *=Measurement does not apply for this frequency.
 - (2). Uncertainty in radiated emission measured is <+/-4dB
 - (3). Any departure from specification : N/A
 - (4). Factor will include cable loss and correction factor.
 - (5). Sample calculation
 $20 \log(\text{emission}) \text{ uV/m} = \text{Factor(dB)} + \text{Ant. factor(dB/m)} + \text{reading(dBuV)}$
 - (6). CPU : Pentium MMX 166MHz Clock chip : 66MHz
 - (7). ET-0405-R → Serial port
 - (8). Pen

SIGNED BY TESTING ENGINEER : ZTC

6.7 RADIATED EMISSION TEST RESULT

The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1GHz. peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.

Temperature : 25 C Humidity : 50 %RH

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBuV)		EMISSION (uV/m)		LMTS (uV/m)
			HORIZ	VERT	HORIZ	VERT	
98.87	0.7	10.8	17.20	14.00	27.23	18.84	150
175.5	1.1	11.5	24.00	*	67.61	*	150
193.9	0.9	12.4	*	12.00	*	18.41	150
225.9	1.0	13.9	21.00	*	62.37	*	200
331.6	1.6	14.7	14.20	13.80	33.50	31.99	200

- REMARKS :**
- (1). *=Measurement does not apply for this frequency.
 - (2). Uncertainty in radiated emission measured is <+/-4dB
 - (3). Any departure from specification : N/A
 - (4). Factor will include cable loss and correction factor.
 - (5). Sample calculation
 $20 \log(\text{emission}) \text{ uV/m} = \text{Factor(dB)} + \text{Ant. factor(dB/m)} + \text{reading(dBuV)}$
 - (6). CPU : Pentium MMX 166MHz Clock chip : 66MHz
 - (7). ET-0405-R → Serial port
 - (8). Mouse

SIGNED BY TESTING ENGINEER : Zric

6.7 RADIATED EMISSION TEST RESULT

The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz. peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.

Temperature : 25 C Humidity : 50 %RH

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBuV)		EMISSION (uV/m)		LMTS (uV/m)
			HORIZ	VERT	HORIZ	VERT	
46.49	0.1	10.9	*	25.10	*	63.83	100
76.56	0.6	10.2	25.60	*	66.10	*	100
142.5	0.7	12.4	21.00	16.80	50.70	31.26	150
410.2	1.8	18.0	19.00	*	87.10	*	200
418.9	1.8	18.1	*	19.00	*	88.10	200

- REMARKS :**
- (1). *=Measurement does not apply for this frequency.
 - (2). Uncertainty in radiated emission measured is <+/-4dB
 - (3). Any departure from specification : N/A
 - (4). Factor will include cable loss and correction factor.
 - (5). Sample calculation
 $20 \log(\text{emission}) \text{ uV/m} = \text{Factor(dB)} + \text{Ant. factor(dB/m)} + \text{reading(dBuV)}$
 - (6). CPU : Pentium MMX 166MHz Clock chip : 66MHz
 - (7). ET-0405-U → USB port
 - (8). Pen

SIGNED BY TESTING ENGINEER : Eric

6.7 RADIATED EMISSION TEST RESULT

The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1GHz. peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.

Temperature : 25 C

Humidity : 50 %RH

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBuV)		EMISSION (uV/m)		LMTS (uV/m)
			HORIZ	VERT	HORIZ	VERT	
64.92	0.4	8.40	27.40	22.00	64.57	34.67	100
88.20	0.8	10.3	*	22.40	*	47.32	150
107.6	0.7	11.3	*	18.00	*	31.62	150
142.5	0.7	12.4	19.80	21.00	44.16	50.70	150
331.6	1.6	14.7	14.00	*	32.73	*	200

- REMARKS :**
- (1). *=Measurement does not apply for this frequency.
 - (2). Uncertainty in radiated emission measured is <+/-4dB
 - (3). Any departure from specification : N/A
 - (4). Factor will include cable loss and correction factor.
 - (5). Sample calculation
 $20 \log(\text{emission}) \text{ uV/m} = \text{Factor(dB)} + \text{Ant. factor(dB/m)} + \text{reading(dBuV)}$
 - (6). CPU : Pentium MMX 166MHz Clock chip : 66MHz
 - (7). ET-0405-U → USB port
 - (8). Mouse

SIGNED BY TESTING ENGINEER : Eric

6 . 8 Bandwidth

6.8.1 Limit

Minimum 20dB bandwidth = 750KHz

6.8.2 Test Result

Please see attached plotter.

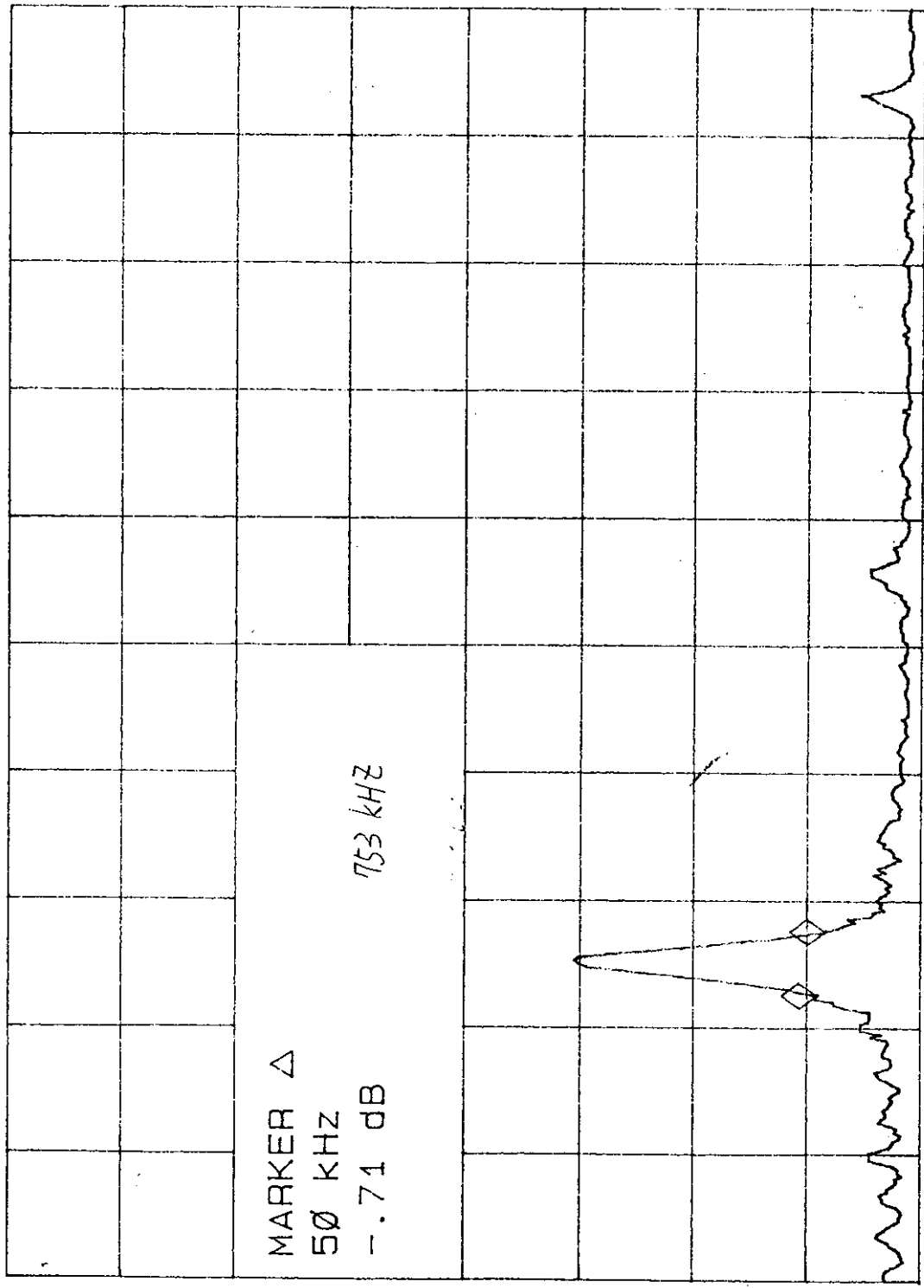
14:37:24 MAY 12, 1999

HP

MKR Δ 50 KHZ
- .71 dB

REF 107.0 dB μ V #AT 10 dB

PEAK
LOG
10
dB/



MARKER Δ
50 KHZ
- .71 dB

753 KHZ

VA SB
SC FC
CORR

START 500 KHZ
RES BW 10 KHZ
STOP 1.500 MHz
#VBW 10 KHZ
#SWP 200 msec

MARKER
→ CF

MARKER Δ

NEXT
PEAK

NEXT PK
RIGHT

NEXT PK
LEFT

More
1 of 2

14:29:57 MAY 12, 1999

MKR Δ 63 KHZ

REF 107.0 dBμV #AT 10 dB

-.69 dB

PEAK

LOG

10

dB/

MARKER
NORMAL

MARKER

MARKER Δ

63 KHZ

-.69 dB

750 KHZ

MARKER
AMPTD

SELECT

1 2 3 4

VA SB

SC FC

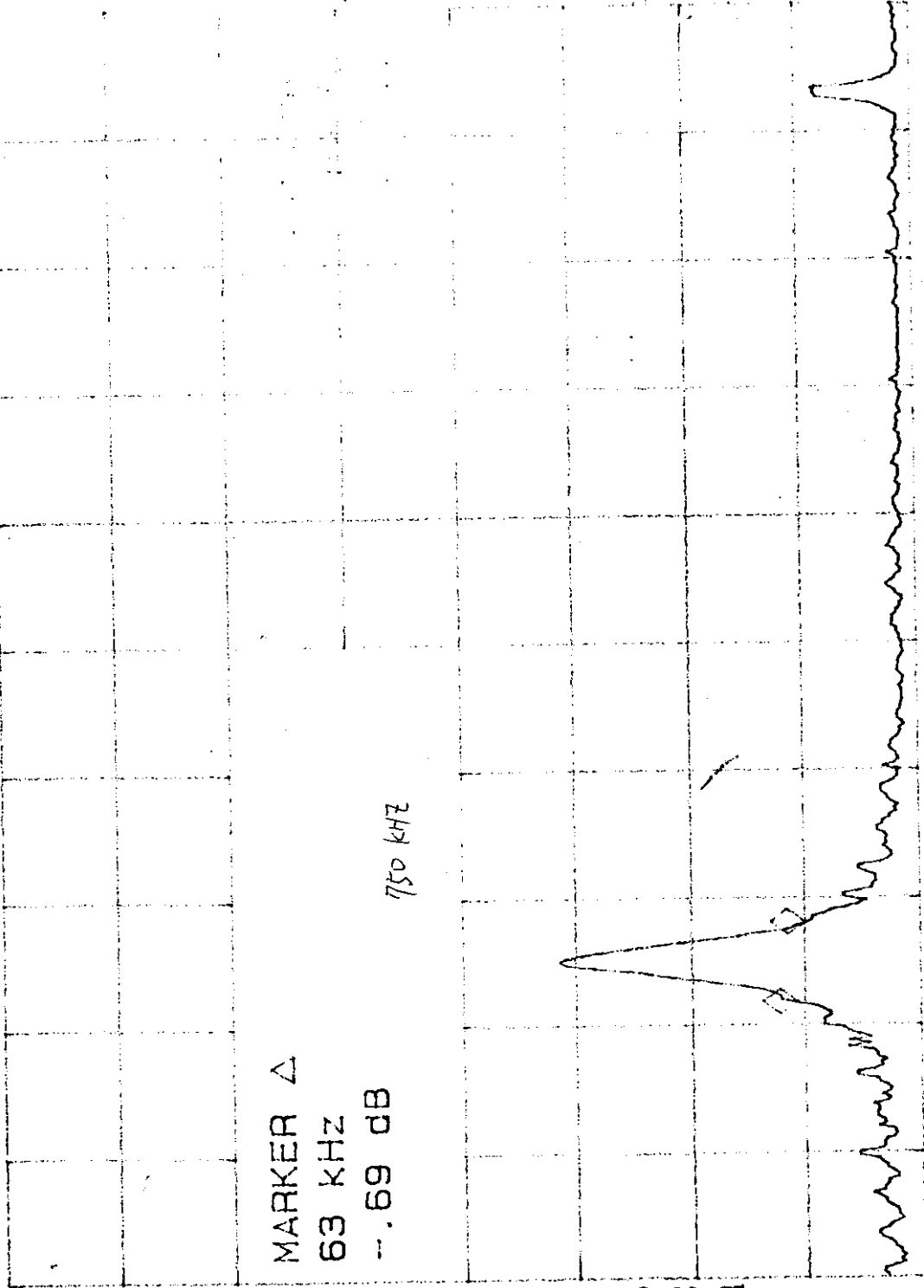
CORR

MARKER 1

ON OFF

More

1 of 2



STOP 1.500 MHz

#SWP 200 msec

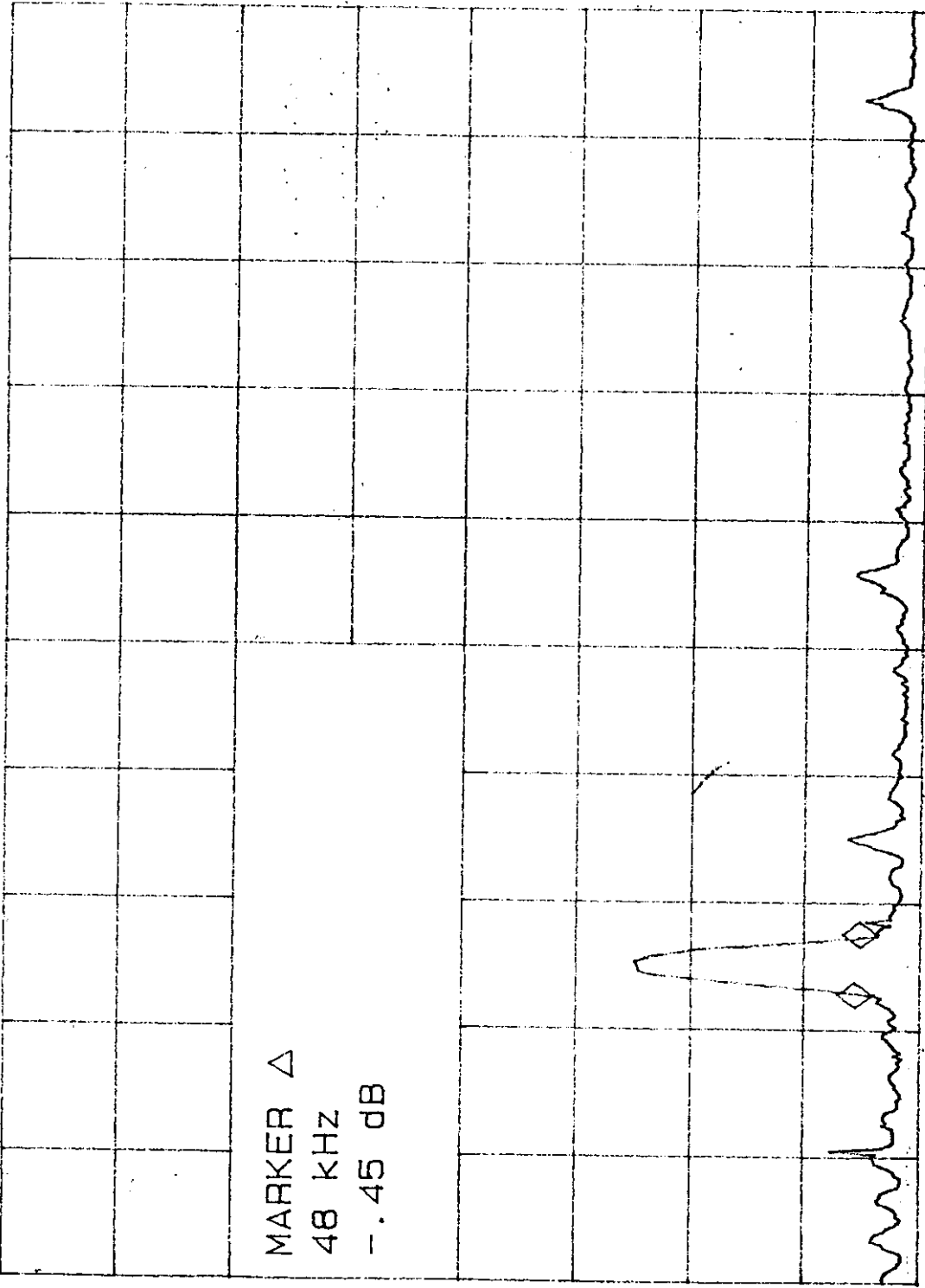
START 500 KHZ

RES BW 10 KHZ

#VBW 10 KHZ

15:05:58 MAY 12, 1999

REF 107.0 dBμV #AT 10 dB
MKR Δ 48 KHZ
.45 dB



MARKER Δ
48 KHZ
-45 dB

MARKER
→ CF

MARKER
Δ

NEXT
PEAK

NEXT PK
RIGHT

NEXT PK
LEFT

More
1 of 2

PEAK
LOG
10
dB/

VA SB
SC FC
CORR

START 500 KHZ STOP 1.500 MHz
RES BW 10 KHZ #VBW 10 KHZ #SWP 200 msec

14: 47: 41 MAY 12, 1999

HP

MKR Δ 80 KHZ

REF 107.0 dB μ V #AT 10 dB

54 dB

PEAK

LOG

10

dB/

MARKER
→ CF

MARKER Δ

MARKER Δ

80 KHZ

-54 dB

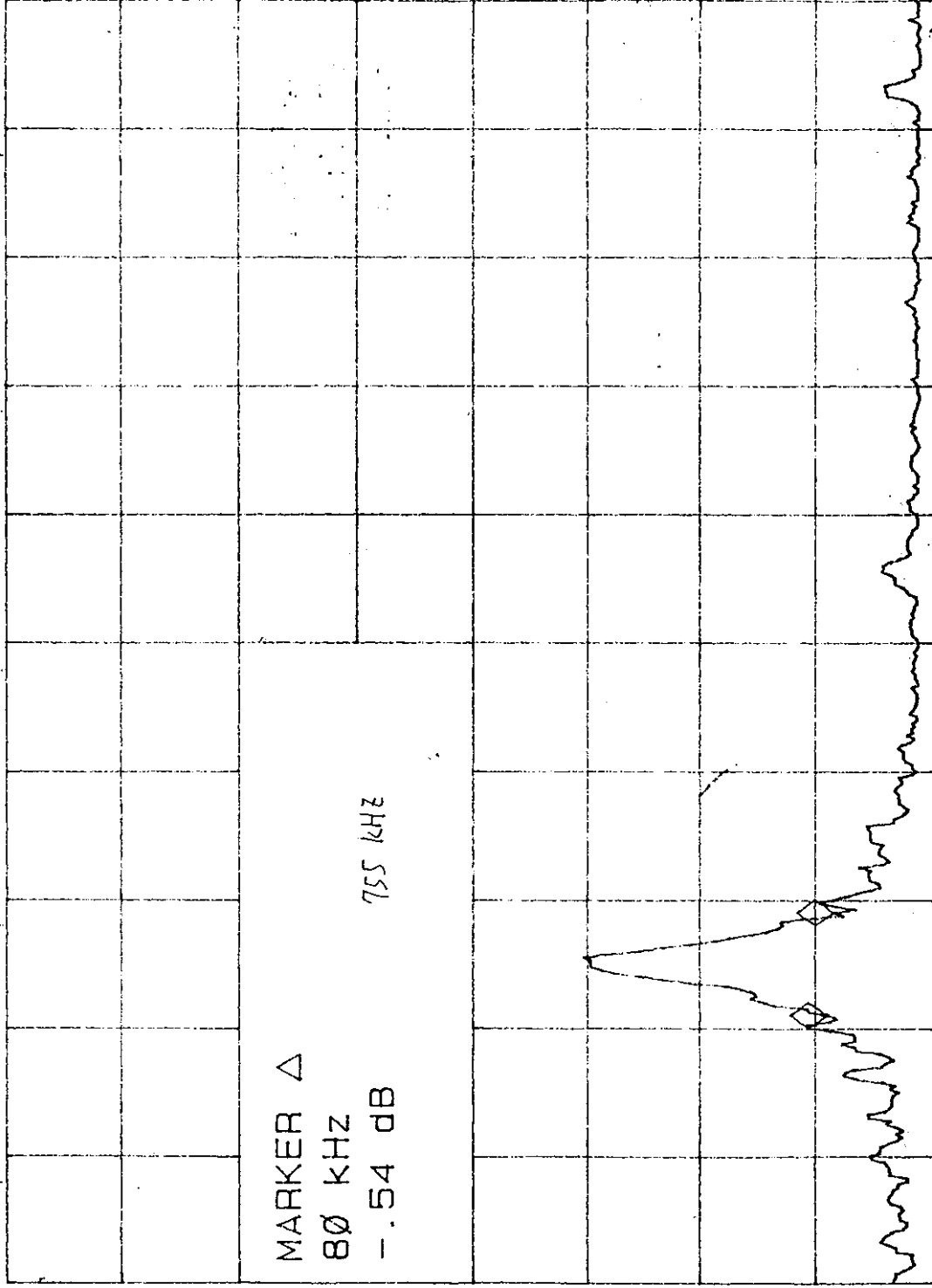
755 KHZ

NEXT
PEAK

NEXT PK
RIGHT

NEXT PK
LEFT

MORE
1 of 2



START 500 KHZ STOP 1:500 MHz

RES BW 10 KHZ #VBW 10 KHZ #SWP 200 msec

27-0405 V

mouse

機架 27-0405 V 4 高層 10 10 10