Class B Certification Application

Under Part 15, Subpart B

EUT CAR AUDIO PLAYER
MODEL CARMP3
FCC ID MEUCARMP3
SRT REPORT # FID1A04

PREPARED FOR

YIELD TECHNOLOGY CO., LTD.
38-1, JUNG MING ROAD,
CHUNG LI, TAOYUAN,
TAIWAN, R.O.C.

YIELD TECHNOLOGY CO., LTD.
No. 38-1 Jung Ming Road, Chung Li Taoyuan Taiwan R.O.C.
TEL : 886-03-4533655 FAX : 886-03-4531522

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road

EMI TESTING REPORT

EUT : CAR AUDIO PLAYER

MODEL : CARMP3

FCC ID : MEUCARMP3

PREPARED FOR

YIELD TECHNOLOGY CO., LTD.

38-1, JUNG MING ROAD,

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TAIWAN, R.O.C.

PREPARED BY

SPECTRUM RESEARCH & TESTING LABORATORY INC.
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TEL (03) 4987684 FAX (03) 4986528

TABLE OF CONTENTS

1. TEST REPORT CERTIFICATION

APPLICANT YIELD TECHNOLOGY CO., LTD.

ADDRESS 38-1, JUNG MING ROAD,
CHUNG LI, TAOYUAN,
TAIWAN, R.O.C.

EUT DESCRIPTION CAR AUDIO PLAYER

(A) POWER SUPPLY	12V DC
(B) MODEL	CARMP3
(C) FCC ID	MEUCARMP3
FINAL TEST DATE	01/09/2001

MEASUREMENT PROCEDURE USED

* PART 15 SUBPART B OF FCC RULES AND REGULATIONS (47 CFR PART 15)
* ANSI C63.4 - 1992
* TEST PROCEDURE AND DATA ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS.

We hereby certify that
The measurements contained in this report 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 _____
Tom Lin

SUPERVISOR _____
Jesse Ho

APPROVED BY _____
Johnson Ho

2. EST 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 processor (s) speed shown in this user manual.

3. EUT Conditions.

The EUT can insert HDD to play MP3 music.

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 test sample that was shown as the photos of this test report only.

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 modification by SRT lab.

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Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

To whom it may concern :

4. RADIATED EMISSION TEST

4.1 TEST EQUIPMENT

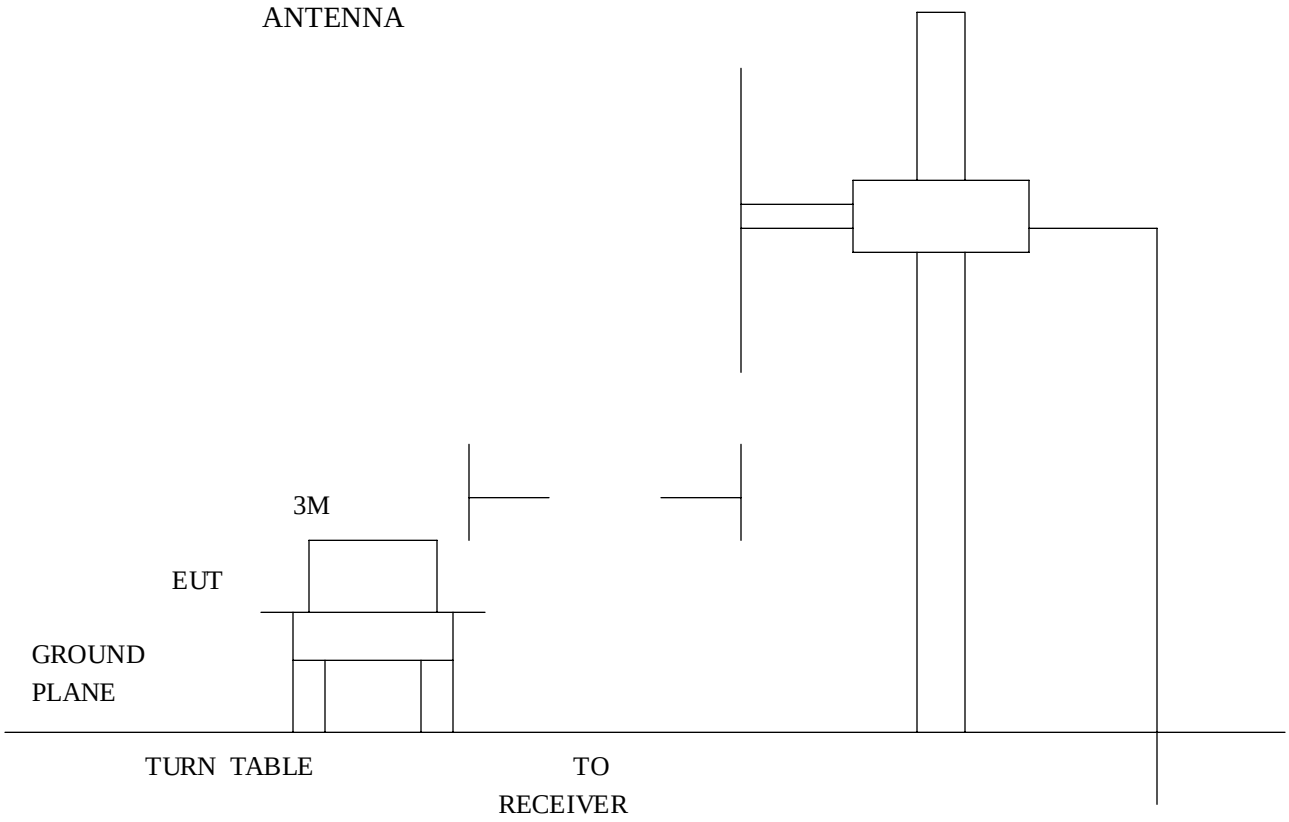
The following test equipment were used during the radiated emission test :

EQIPMENT / FACILITIES	SPECIFICA-TIONS	MANUFACTUR-ER	MODEL # / SERIAL #	DATE OF CAL. & CAL. CENTER	DUE DATE	FINAL TEST
TEST RECEIVER	9 KHz TO 2.75 GHz	R & S	ESCS30/ 830245/012	JULY 2000 ETC	1Y	
TEST RECEIVER	20 MHz TO 1000 MHz	R & S	ESVS30/ 841977/003	MARCH 2000 ETC	1Y	√
SPECTRUM ANALYZER	100 Hz TO 1500 MHz	HP	8568B/ 3001A04931	AUGUST 2000 ETC	1Y	
SPECTRUM ANALYZER	9 KHz TO 22 GHz	HP	8593E/ 3322A00670	MARCH 2000 ETC	1Y	
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	MARCH 2000 ETC	1Y	√
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9003-534	MARCH 2000 SRT	1Y	
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9611-1239	AUGUST 2000 SRT	1Y	
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142/ 9701-1124	NOV. 2000 SRT	1Y	√
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142/ 9608-1073	AUGUST 2000 SRT	1Y	
BI-LOG ANTENNA	26 MHz TO 1100 MHz	EMCO	3143/ 9509-1152	AUGUST 2000 SRT	1Y	
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A08402	MARCH 2000 ETC	1Y	
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A06412	JULY 2000 ETC	1Y	
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 9012-3619	JAN. 2000 ETC	1Y	

4.2 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.

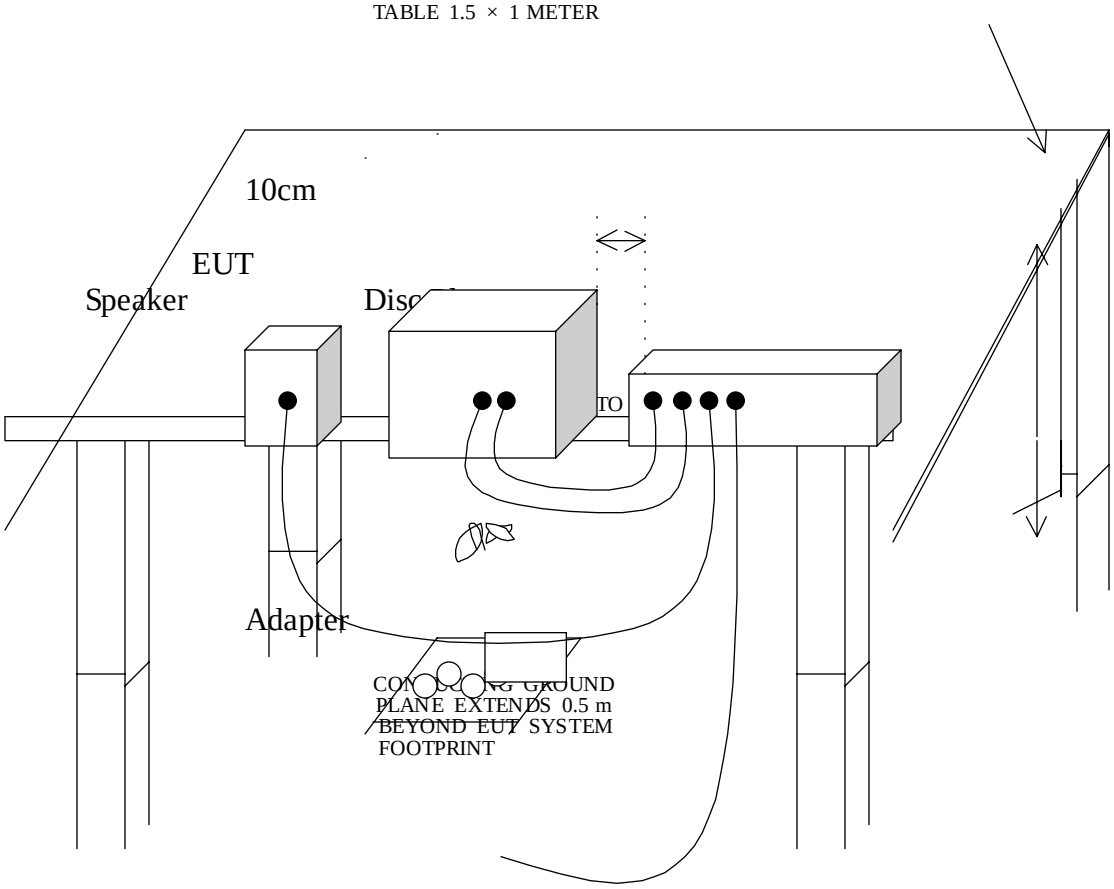
4.3 RADIATED TEST SET-UP



4.3 RADIATED TEST SET-UP

ANSI C63.4-1992
ELECTRICAL AND ELECTRONIC EQUIIPMENT IN THE RANGE IN THE RANGE OF 9 KHz TO 40 GHz

NONCONDUCTIVE
TABLE 1.5 × 1 METER



4.4 CONFIGURATION OF THE EUT

The EUT was configured according to ANSI C63.4 - 1992. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

DEVICE	MANUFACTURER	MODEL #	FCCID
CAR AUDIO PLAYER	YIELD TECHNOLOGY CO., LTD.	CARMP3	MEUCARMP3

B. INTERNAL DEVICES

DEVICE	MANUFACTURER	MODEL #	FCCID / DoC
HDD	TOSHIBA	FKN3HA	N/A

C. PERIPHERALS

DEVICE	MANUFAC-TURER	MODEL #	FCCID / DoC	CABLE
DISC PLAYER	SONY	CDX-M650	N/A	1.2m unshielded data cable
ADAPTER	ITE	SW110	N/A	1.5m unshielded power cable
SPEAKER	J-S	TOP-150	N/A	1.5m unshielded data cable

- **REMARK**

(1). Cable - S1 Single point shielding
S2 360° shielding
S3 Double shielding

(2). Cables - All 1m or greater in length – bundled according to ANSI C63.4 – 1992.

4.5 EUT OPERATING CONDITION

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

1. EUT power on.

4.6 REDIATED EMISSION LIMITS

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

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dBuV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
ABOVE 960	3	54.0

NOTE 1. In the emission tables above, the tighten 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.

4.7 RADIATED EMISSION TEST RESULTS

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. Measurements were made at 3 meters.

Temperature 23 Humidity 65 %RH

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBuV)		EMISSION (dBuV/m)		LIMITS (dBuV/m)
			HORIZ	VERT	HORIZ	VERT	
66.3520	1.0	7.8	26.2	*	35.0	*	40.0
118.9164	1.3	9.0	*	25.8	*	36.1	43.5
222.6154	1.9	11.4	27.8	26.8	41.1	40.1	46.0
261.9480	2.1	13.6	25.4	24.7	41.1	40.4	46.0
556.9420	3.1	18.9	18.4	*	40.4	*	46.0
631.2054	3.4	20.1	*	15.2	*	38.7	46.0

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 (emission) uV/m = Factor(dB)+Ant. factor(dB/m)+reading(dBuV)

SIGNED BY TESTING ENGINEER