

EMC TEST REPORT

For

Wireless VHF/FM Transmitter

Model Number: CLS747-T

FCC ID: VK7CLS747-T

Report Number : WT088000930

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TEST REPORT DECLARATION




Applicant : Mainstar Electrical Company Ltd.
 Address : Room 40, 12/F, Block D, Wah Lok ind'l Centre, Shan Mei Street,
 Fo Tan, Shatin, N.T. Hong Kong
 Manufacturer : Mainstar Electrical Company Ltd.
 Address : Block A5&A6, Chang An Wu Sha International Industrial Park
 Chang An, Dongguan, Guangdong Province, China
 EUT Description : Wireless VHF/FM Transmitter
 Model Number : CLS747-T
FCC ID Number : VK7CLS747-T

Test Standards:

FCC Part 15 15.237

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.237.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Tested by:	 _____ (Louis Lin)	Date:	2008.05.15 _____
Checked by:	 _____ (Dewelly Yang)	Date:	2008.05.15 _____
Approved by:	 _____ (Peter Lin)	Date:	2008.05.15 _____

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	Test Results
Conducted Disturbance	15.207	Pass
Radiated disturbance	15.237 15.35	Pass
Occupied Bandwidth	15.237	Pass
Band Edges	15.237	Pass
MODULATION CHARACTERISTICS	2.1047	Pass
Antenna Requirement	15.203	Pass

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Committee for Laboratories (**CNAL**) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (**FCC**), and the registration number are **97379**(open area test site) and **274801**(semi anechoic chamber).

The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (**VCCI**), and the registration number are **R-1974**(open area test site) , **R-1966**(semi anechoic chamber), **C-2117**(mains ports conducted interference measurement) and **T-180**(telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (**IC**), and the registration number is **IC4174**.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is **E2024086Z02**.

Measurement Uncertainty

2.3. Measurement Uncertainty

Conducted Disturbance : 9kHz~30MHz 3.5dB

Radiated Disturbance: 30MHz~1000MHz 4.5dB
1GHz~18GHz 4.6dB

3. PRODUCT DESCRIPTION

3.1. EUT Description

Description : Wireless VHF/FM Transmitter

Manufacturer : MAINSTAR ELECTRICAL COMPANY LTD.

Model Number : CLS747-T

Input Power : DC 12V

Model number: DPX411433

Adaptor : Input : AC 120 V, 60 Hz, 9W
Output : DC 12V 300mA

Operate Frequency : 74.7MHz

Modulation FM

Antenna Designation : Fixed

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: VK7CLS747-T filing to comply with Section 15.237 of the FCC Part 15, Subpart C Rules.

3.3. Block Diagram of EUT Configuration

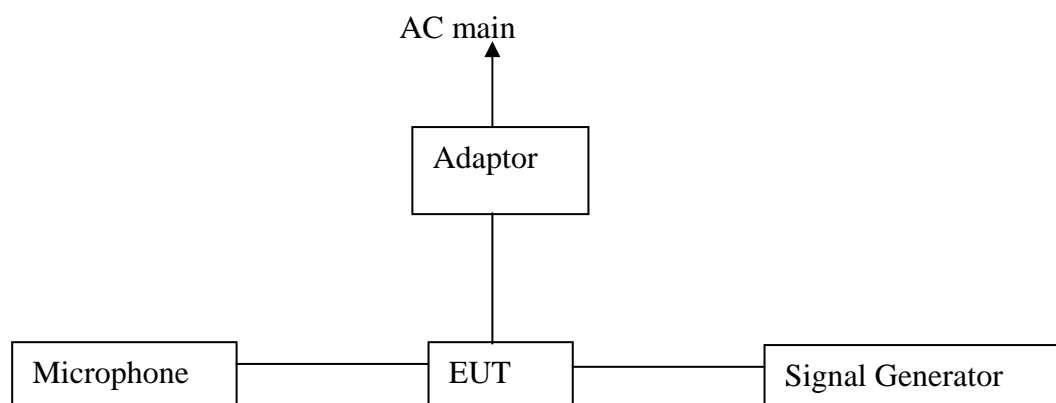


Figure 1 Test Setup 1

3.4. Operating Condition of EUT

Mode 1: 74.7MHz TX

3.5. Special Accessories

Not available for this EUT intended for grant.

3.6. Equipment Modifications

Not available for this EUT intended for grant.

3.7. Support Equipment List

Signal Generator
M/N: CT100
Manufacture: BEHRINGER
Microphone
M/N:---

3.8. Test Conditions

Date of test: May.12-16,2008
Date of EUT Receive: May.9,,2007
Temperature: 24 °C
Relative Humidity: 56-58%

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure

Table 2 Conducted Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB2603	EMI Test Receiver	Rohde & Schwarz	ESCS30	Jan.24, 2008	1 Year
SB3321	AMN	Rohde & Schwarz	ESH2-Z5	Jan.24, 2008	1 Year
SB2604	AMN	Rohde & Schwarz	ESH3-Z5	Jan.24, 2008	1 Year
SB3612	Audio generator	KENWOOD	AD-203D	Jun.19, 2007	1 Year
SB3436	EMI Test Receiver	Rohde & Schwarz	ESI26	Jan.24, 2008	1 Year
SB3440	Bilog Antenna	Chase	CBL6112B	Jan.24, 2008	1 Year
SB3450/01	3m Semi-anechoic chamber	Albatross Projects	9X6X6	Jan.24, 2008	1 Year
SB2541	RF Communication Tester	HP	8920A	May 22,2007	1 Year

5. CONDUCTED DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1. Test Standard

FCC Part 15 15.207

5.1.2. Test Limit

Table 3 Conducted Disturbance Test Limit (Class B)

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

- Decreasing linearly with logarithm of the frequency
- The lower limit shall apply at the transition frequency.

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The test was performed with two model. The worst case is TX mode. the follow was shown the worst data.

Table 4 Conducted Disturbance Test Data

Model: CLS747-T							
Mode: 1							
Frequency (MHz)	Correction Factor (dB)	Line					
		Quasi-Peak			Average		
		Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
0.552	10.0	18.4	28.4	56	-3.5	6.5	46
0.190	10.0	11.7	31.7	64.0	-2.5	7.5	54.0
0.274	10.0	20.5	30.5	61.0	-2.9	7.1	51.0
0.426	10.0	17.5	27.5	57.3	-4.3	5.7	47.3
0.784	10.0	9.1	19.1	56	-5.8	4.2	46
12.450	10.2	9.4	29.6	60	17.7	27.9	50

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
 3. The other emission levels were very low against the limit.

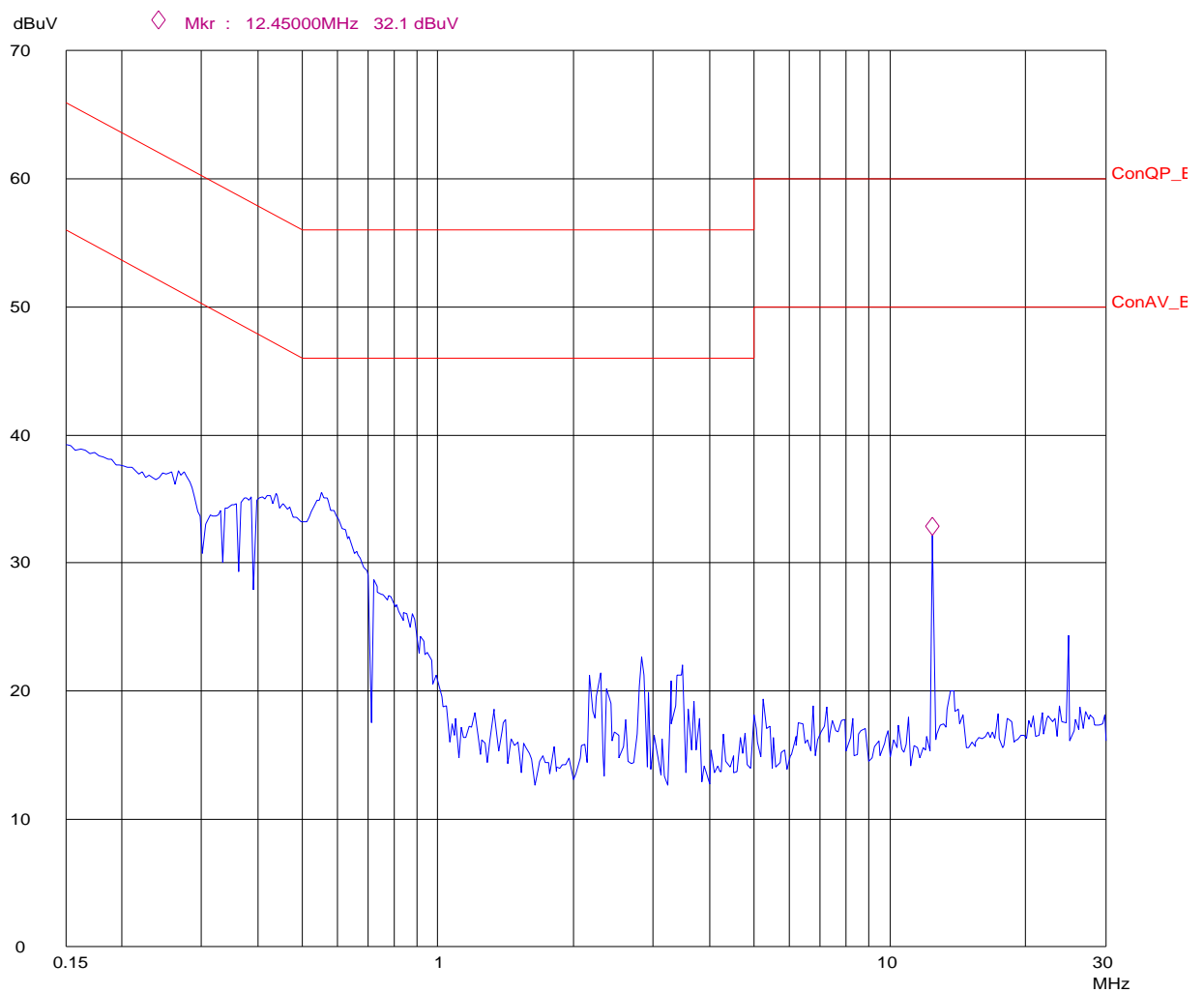
Table 5 Conducted Disturbance Test Data

Model: CLS747-T							
Mode: 1							
Neutral							
Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
		Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
0.150	10.0	23.1	33.1	66	-1.8	8.2	56
0.274	10.0	20.7	30.7	61.0	-2.7	7.3	51.0
0.438	10.0	17.0	27.0	57.1	-4.2	5.8	47.1
0.552	10.0	18.3	28.3	56	-3.6	6.4	46
2.830	10.1	0.5	10.6	56	-5.9	4.2	46
12.450	10.2	21.3	31.5	60	19.6	29.8	50

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
 3. The other emission levels were very low against the limit.

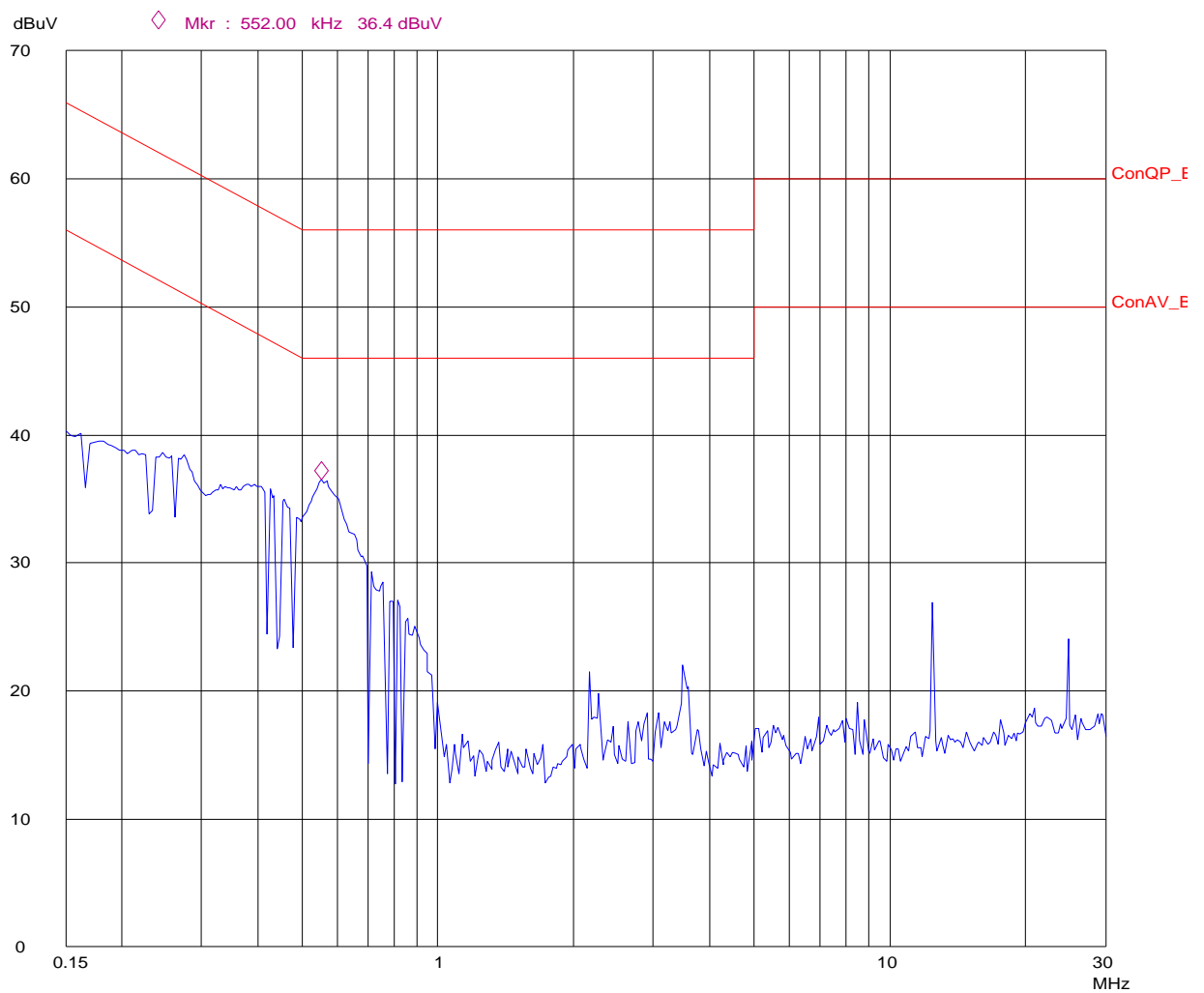
Conducted Disturbance

EUT: M/N:747-T
Op Cond: ON
Test Spec: N
Comment: AC 120V/60Hz



Conducted Disturbance

EUT: M/N:747-T
Op Cond: ON
Test Spec: L
Comment: AC 120V/60Hz



6. RADIATED DISTURBANCE TEST

6.1. Test Standard and Limit

6.1.1. Test Standard

FCC Part 15 15.237

6.1.2. Test Limit

The field strength of any emissions within the permitted 200 kHz band shall not exceed 80 millivolts/meter(98dBuV/m) at 3 meters. The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed 1500 microvolts/meter(63.5dBuV/m) at 3 meters. The emission limits in this paragraph are based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.

Emissions that fall in the restricted bands (15.205). These emissions must be less than or equal to 100 uV/m (40 dBuV/m). Part 15.35(b) applies in the restricted bands. Emissions not in the restricted band must be below 63.5dBuV/m.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

The RBW of the EMI test receiver is :

30~1000MHz	120KHz
1000-18000MHz	1MHz

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

Table 6 Radiated Disturbance Test Data

Model number: CCS725-T Test Mode:1							
Frequency (MHz)	Polarization	Reading Value (dB μ V)	Correction Factor (dB)	Antenna Factor (dB/m)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Note
62.257	H	36.9	1.4	6.2	44.5	83.5	Spurious PK
62.257	H	36.1	1.4	6.2	43.7	63.5	Spurious AV
74.701	H	65.1	1.4	8.2	74.7	118.0	Fundamental QP
74.701	H	64.7	1.4	8.2	74.3	98.0	Fundamental AV
149.406	H	24.1	2.1	11.3	37.5	83.5	Spurious PK
149.406	H	16.8	2.1	11.3	30.2	63.5	Spurious AV
747.008	H	21.8	4.6	20.1	46.5	83.5	Spurious PK
747.008	H	18.3	4.6	20.1	43.0	63.5	Spurious AV
62.247	V	45.6	1.4	6.2	53.2	83.5	Spurious PK
62.247	V	44.3	1.4	6.2	51.9	63.5	Spurious AV
74.702	V	79.7	1.4	8.2	89.3	118.0	Fundamental QP
74.702	V	79.0	1.4	8.2	88.6	98.0	Fundamental AV
87.146	V	45.7	1.6	10.3	57.6	83.5	Spurious PK
87.146	V	44.9	1.6	10.3	56.8	63.5	Spurious AV
99.614	V	47.9	1.6	11.9	61.4	83.5	Spurious PK
99.614	V	47.1	1.6	11.9	60.6	63.5	Spurious AV
149.406	V	32.1	2.1	11.34	45.5	83.5	Spurious PK
149.406	V	23.7	2.1	11.34	37.1	63.5	Spurious AV

Note: 1.

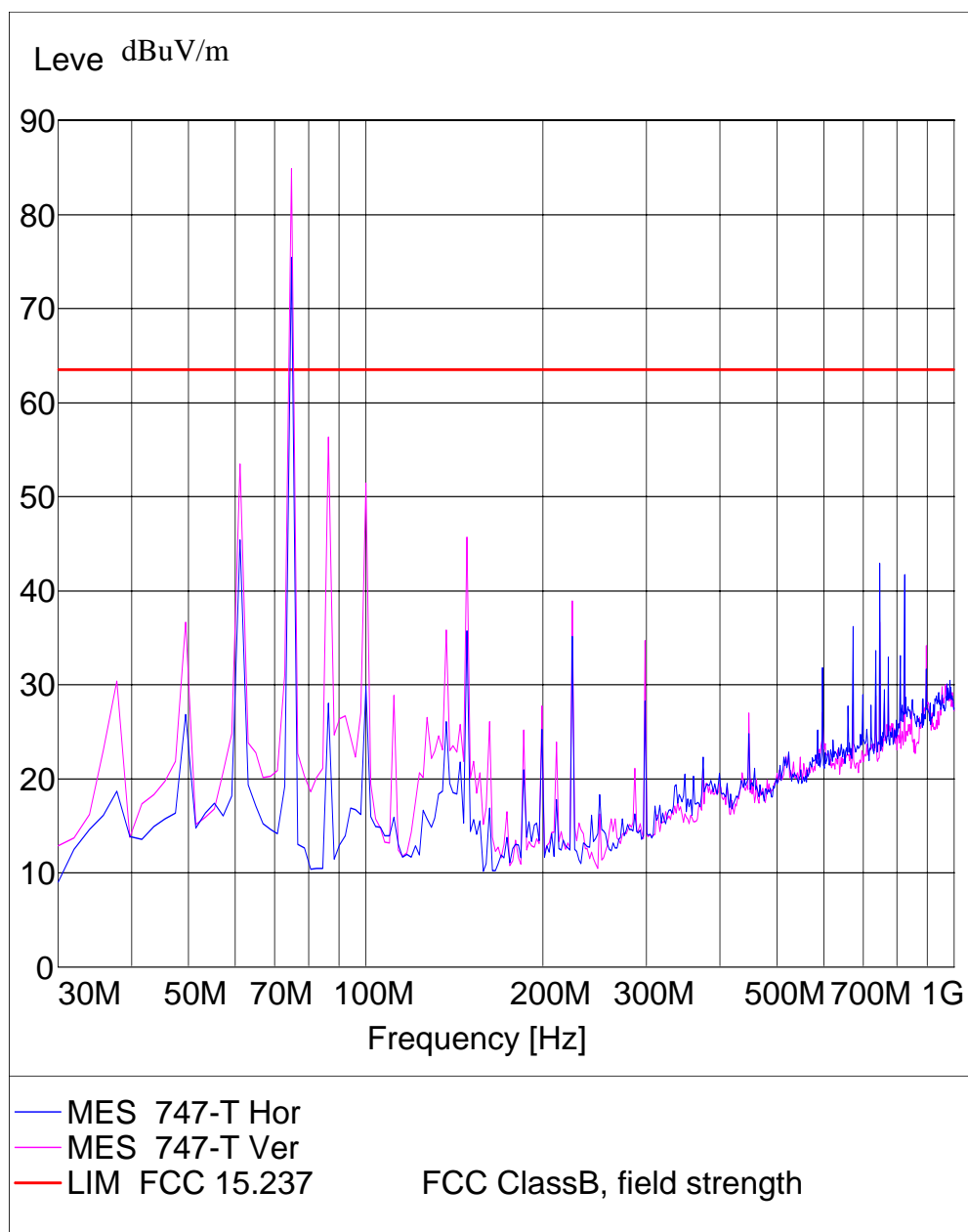
Emission level(dBuV/m)=Reading Value(dBuV) + Correction Factor(dB/m)+ Antenna Factor (dB/m)

2. Correction Factor(dB/m) = Cable Factor (dB)+Amplifier Factor(dB)

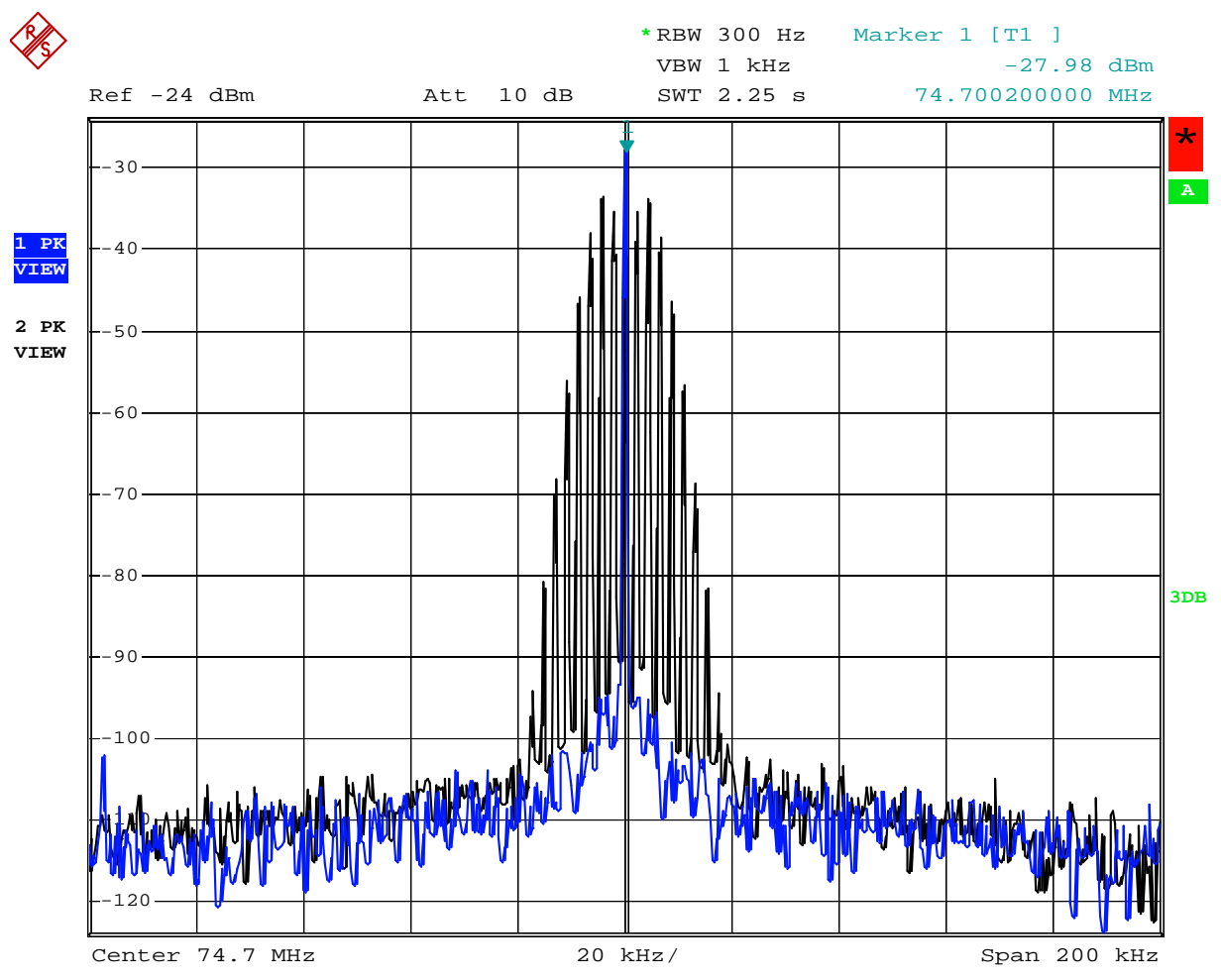
3. The other emission levels were less than the limit 20dB

Radiated Emission

EUT: CLS747-T
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC lab SAC
Operator:
Test Specification: Horizontal&Vertical
Comment: AC 120V/60Hz



MEASUREMENT RESULTS NEAR CENTER FREQUENCY

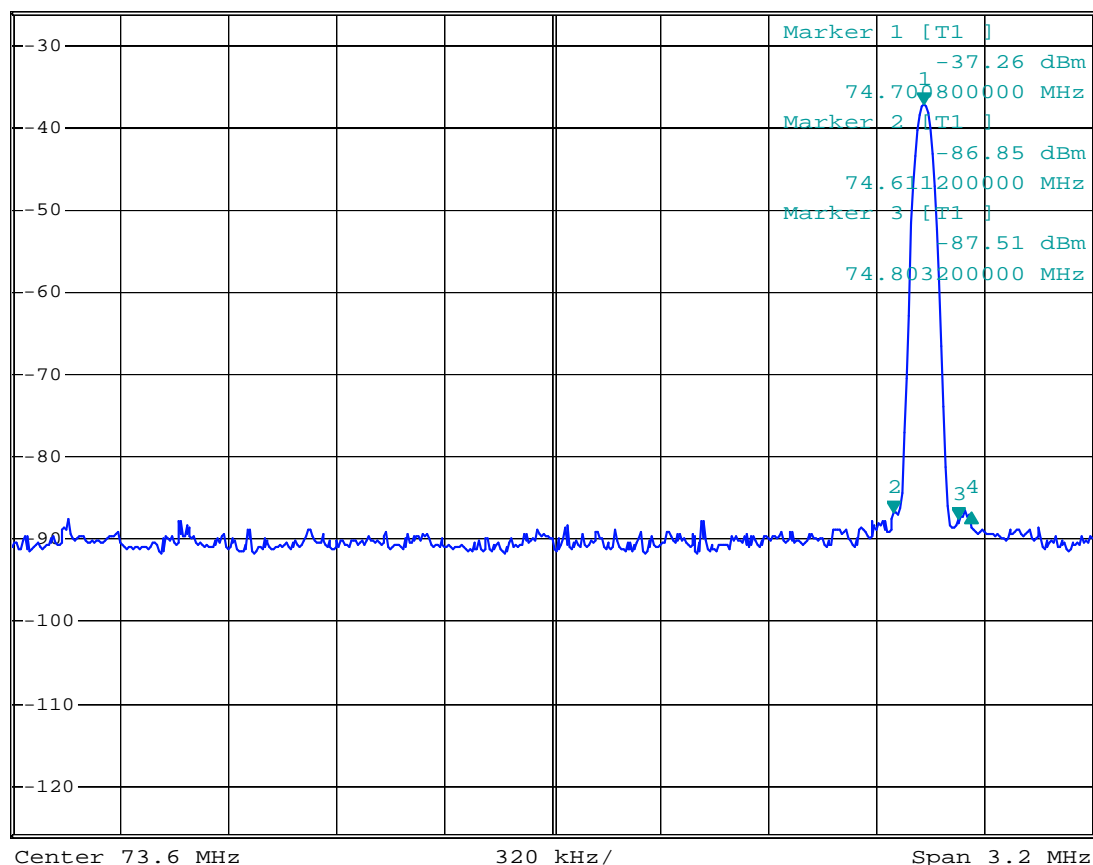


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Restricted Band Radiated Emission Data (73-74.6MHz 74.8-75.2MHz)

*RBW 30 kHz Delta 4 [T1]
 VBW 100 kHz -49.55 dB
 Ref -26 dBm Att 10 dB SWT 5 ms 140.80000000 kHz

1 PK
 VIEW



Date: 17.MAY.2008 00:25:12

NOTE 1: The emission plot shows 50.3dBc. The emission of carrier strength list in the test result of TX frequency is 89.3dBuV/m (PK), so the maximum field strength in restrict band is $89.3 - 50.3 = 39.0$ dBuV/m which is under 40.0 dBuV/m limit.

Table 7 Restricted Band Radiated Emission Data

MHz	MHz
0.090 - 0.110	16.42 - 16.423
0.495 - 0.505	16.69475 - 16.69525
2.1735 - 2.1905	16.80425 - 16.80475
4.125 - 4.128	25.5 - 25.67
4.17725 - 4.17775	37.5 - 38.25
4.20725 - 4.20775	108 - 121.94
6.215 - 6.218	123 - 138
6.26775 - 6.26825	149.9 - 150.05
6.31175 - 6.31225	156.52475 - 156.52525
8.291 - 8.294	156.7 - 156.9
8.362 - 8.366	162.0125 - 167.17
8.37625 - 8.38675	167.72 - 173.2
8.41425 - 8.41475	240 - 285
12.29 - 12.293	322 - 335.4
12.51975 -	399.9 - 410
12.52025	608 - 614
12.57675 -	960 - 1240
12.57725	
13.36 - 13.41	

All the emission of the above band were less than the limit 20dB.

7. OCCUPIED BANDWIDTH

7.1. Test Standard and Limit

7.1.1. Test Standard

FCC Part 15 15.237

7.1.2 test limit

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the above specified frequency ranges.

7.2. Test Procedure

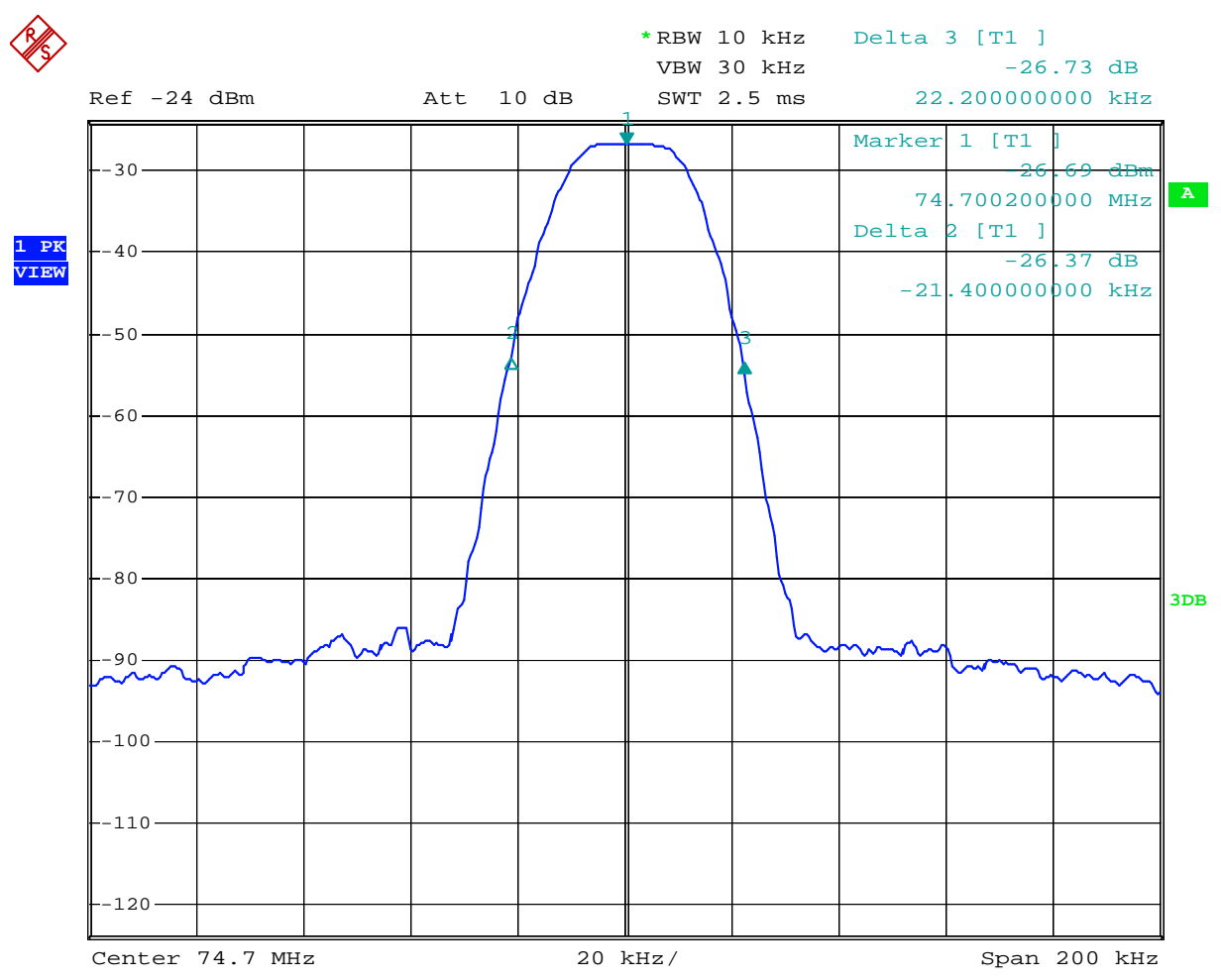
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set EMI test receiver(ESIB26) Center Frequency = fundamental frequency, RBW=10kHz, VBW= 30kHz, Span=200kHz.
4. Set EMI test receiver(ESIB26) Max hold. Mark peak, -26dB.

7.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

7.4. Test Data

The test was performed with CLS747-T.
26dB bandwidth =43.6 kHz



Date: 14.MAY.2008 07:19:53

8. BAND EDGE

8.1. Test Standard and Limit

8.1.1. Test Standard

FCC Part 15 15.237

8.2. Band Edge FCC 15.237 Limit

The field strength of any emissions within the permitted 200 kHz band shall not exceed 80 millivolts/meter (98dBuV/m) at 3 meters. The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed 1500 microvolts/meter (63.5dBuV/m) at 3 meters. The emission limits in this paragraph are based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.

8.3. Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instruments. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Measure the highest amplitude appearing on spectral display and set it as reference level. Plot the graph with marking the highest point and edge frequency.
4. Repeat above procedures until all measured frequencies were complete.

8.4. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

8.5. Test Data

All the emission outside 74.679 to 74.722 is lower than 63.5 dB (μ V/m).

NOTE 1: The band edge emission plot of on page 24 low frequency shows 26.3dBc. The emission of carrier strength list in the test result of low frequency is 88.6dBuV/m (AV), so the maximum field strength in restrict band is $88.6 - 26.3 = 62.3$ dBuV/m which is under 63.5dBuV/m limit.

NOTE 2: The band edge emission plot of on page 24 high frequency shows 26.7dBc. The emission of carrier strength list in the test result of high frequency is 88.6dBuV/m (AV), so the maximum field strength in restrict band is $88.6 - 26.7 = 61.9$ dBuV/m which is under 63.5dBuV/m limit.

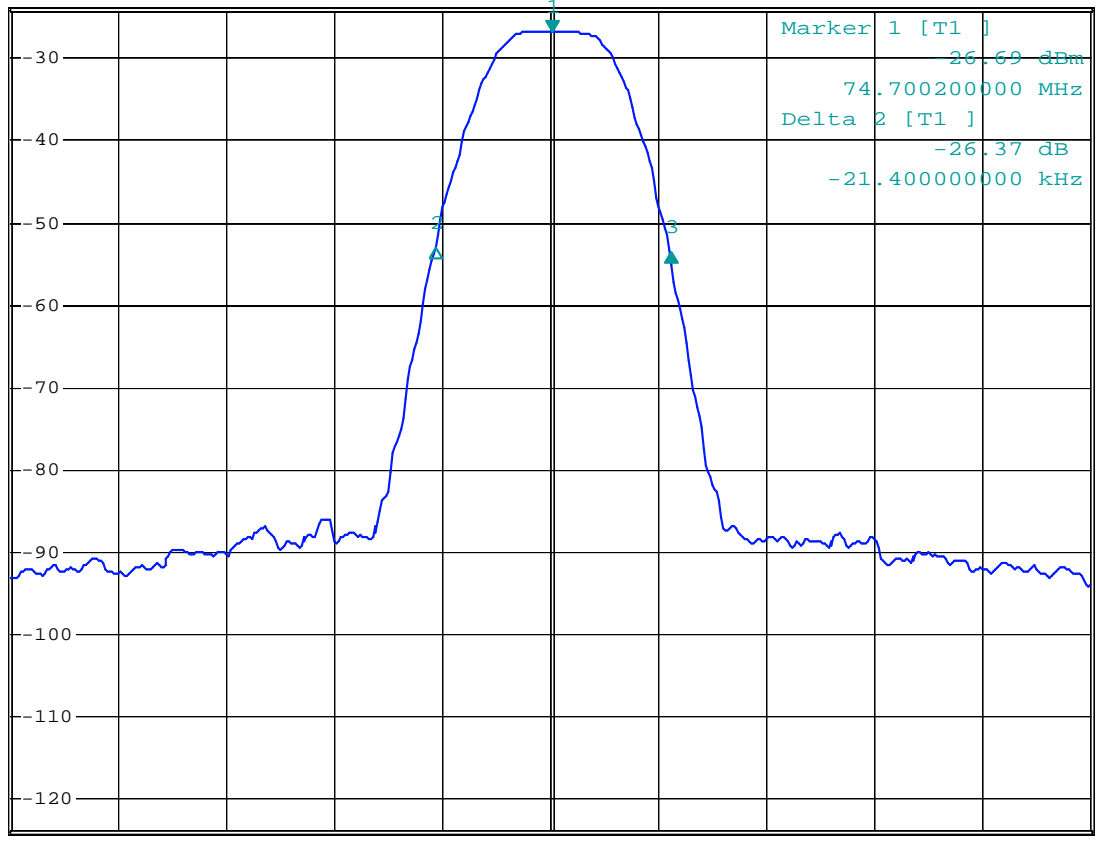


*RBW 10 kHz Delta 3 [T1]
VBW 30 kHz -26.73 dB
SWT 2.5 ms 22.200000000 kHz

Ref -24 dBm

Att 10 dB

1 PK
VIEW



A

3DB

Center 74.7 MHz 20 kHz/ Span 200 kHz

Date: 14.MAY.2008 07:19:53

9. MODULATION CHARACTERISTICS

9.1. Test requirement

Part 2 2.1047 (a) & (b)

Requirements: A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 – 5000Hz shall be submitted.

9.2. MODULATION CHARACTERISTICS MEASUREMENT METHOD

9.2.1 Modulation Limit

- 1). Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1KHz using this level as a reference (0dB) and vary the input level from –20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- 2). Repeat step 1 with input frequency changing to 300,1000,3000, and 14000Hz in sequence.

9.2.2 Audio Frequency Response

- 1). Configure the EUT as shown in figure 1.
- 2). Adjust the audio input for 20% of rated system deviation at 1 KHz using this level as a reference (0 dB).
- 3). Vary the Audio frequency from 100 Hz to 30 KHz and record the frequency deviation

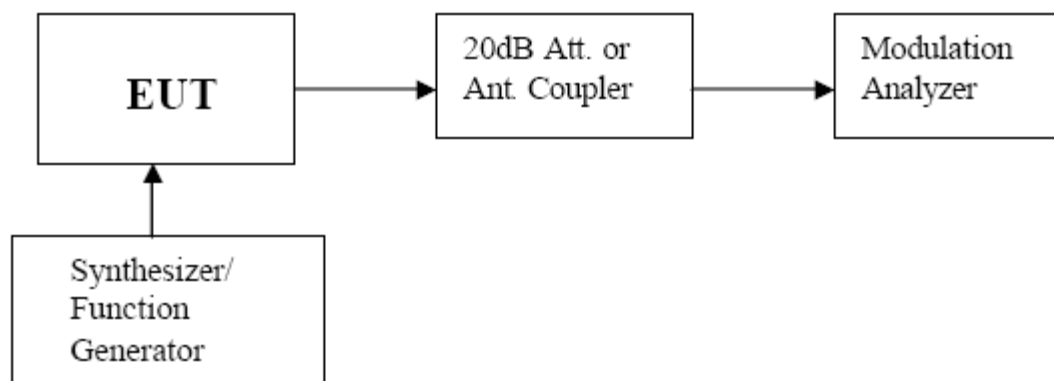


Figure 2 Modulation test setup

9.3. MEASUREMENT RESULT

9.3.1 Modulation Limit:

The Max deviation is 5kHz.

Table 8 Modulation Test Results

Test Mode: 1

Modulation Level (dB)	Peak Freq Deviation At 300Hz	Peak Freq Deviation At 1000Hz	Peak Freq Deviation At 2500Hz
-20	0.10	0.33	0.39
-15	0.15	0.69	0.75
-10	0.20	1.00	1.16
-5	0.45	1.89	2.15
0	0.63	3.00	3.53
5	0.75	3.50	3.95
10	0.83	4.02	4.47
15	0.84	4.05	4.48
20	0.85	4.09	4.50

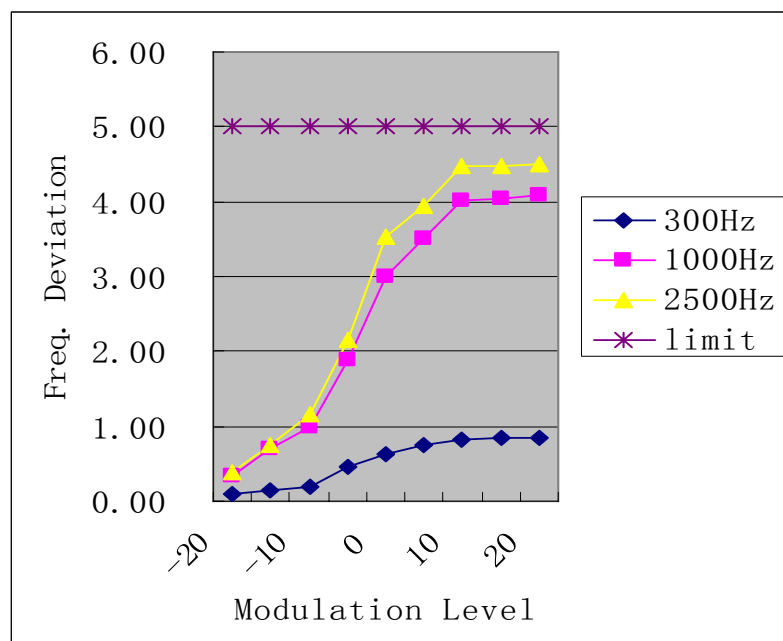


Figure 3 modulation test result

b). Audio Frequency Response:

Table 9 Modulation Test Results

Frequency (Hz)	Deviation (KHz)
100	--
200	0.08
300	0.25
400	0.40
500	0.54
600	0.65
700	0.84
800	0.93
900	0.99
1000	1.00
1200	1.14
1400	1.14
1600	1.15
1800	1.18
2000	1.20
2200	1.24
2400	1.24
2600	1.25
2800	1.23
3000	1.19
3200	1.18
3400	1.11
3600	0.95
3800	0.85
4000	0.42
4200	0.25
4400	0.17
4600	0.12
4800	0.10
5000	0.04
5500	---
6000	---
6500	---

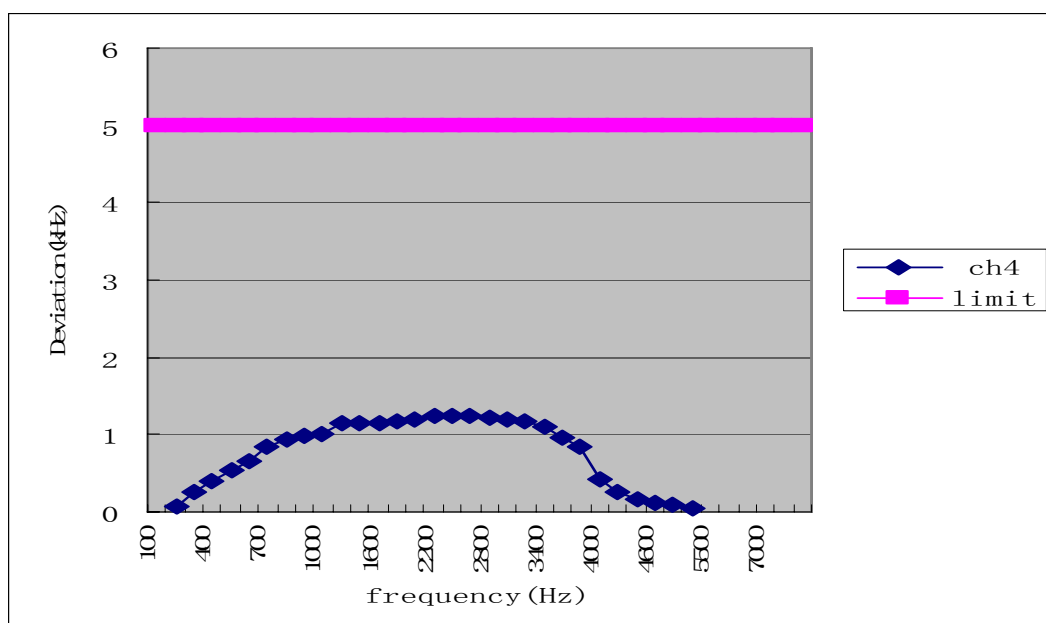


Figure 4 modulation test result

10. ANTENNA REQUIREMENT

According to Section 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.

The EUT has a fixed antenna which is fixed to the enclosure of the device. this is permanently attached antenna and meets the requirements of this section.

APPENDIX I TEST PHOTO

Photo 1 Conducted Emission Test



Photo 2 Conducted Emission Test



Photo 3 Radiated Emission Test

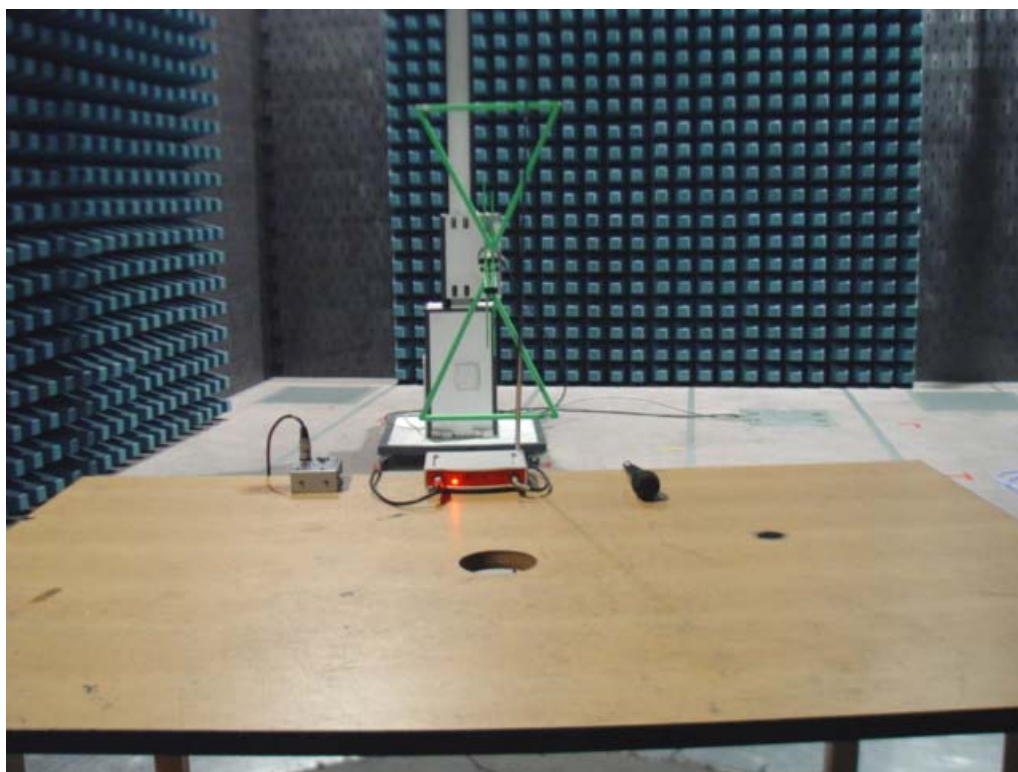
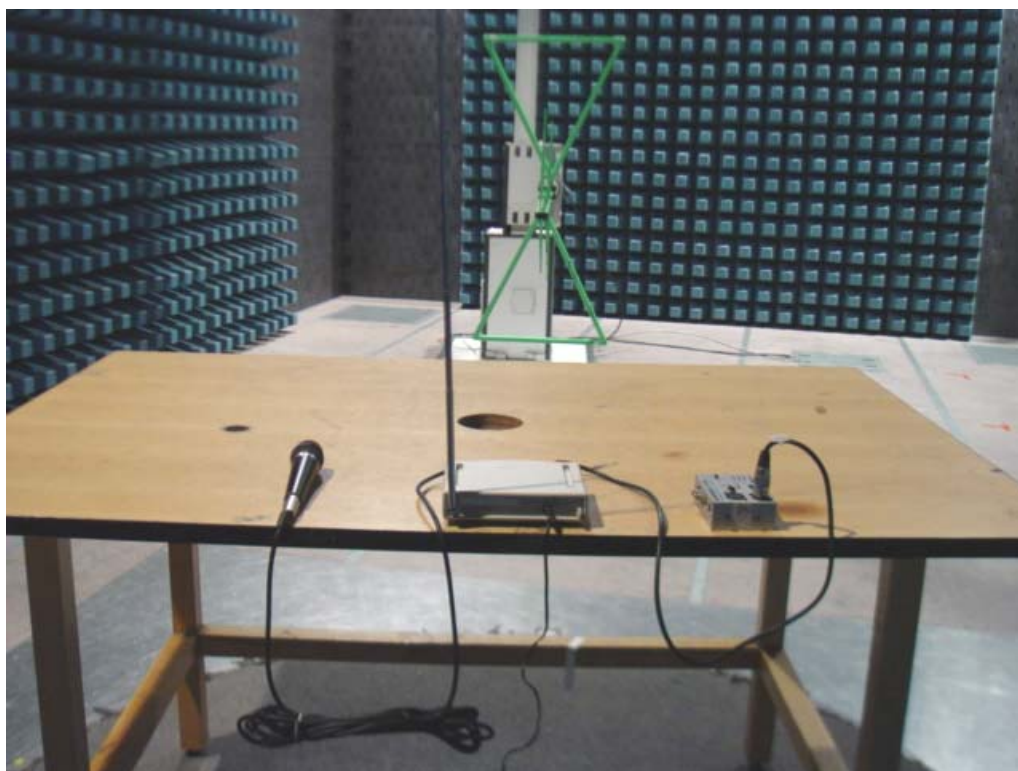


Photo 4 Radiated Emission Test



APPENDIX II EUT PHOTO

Photo 1 Appearance of EUT

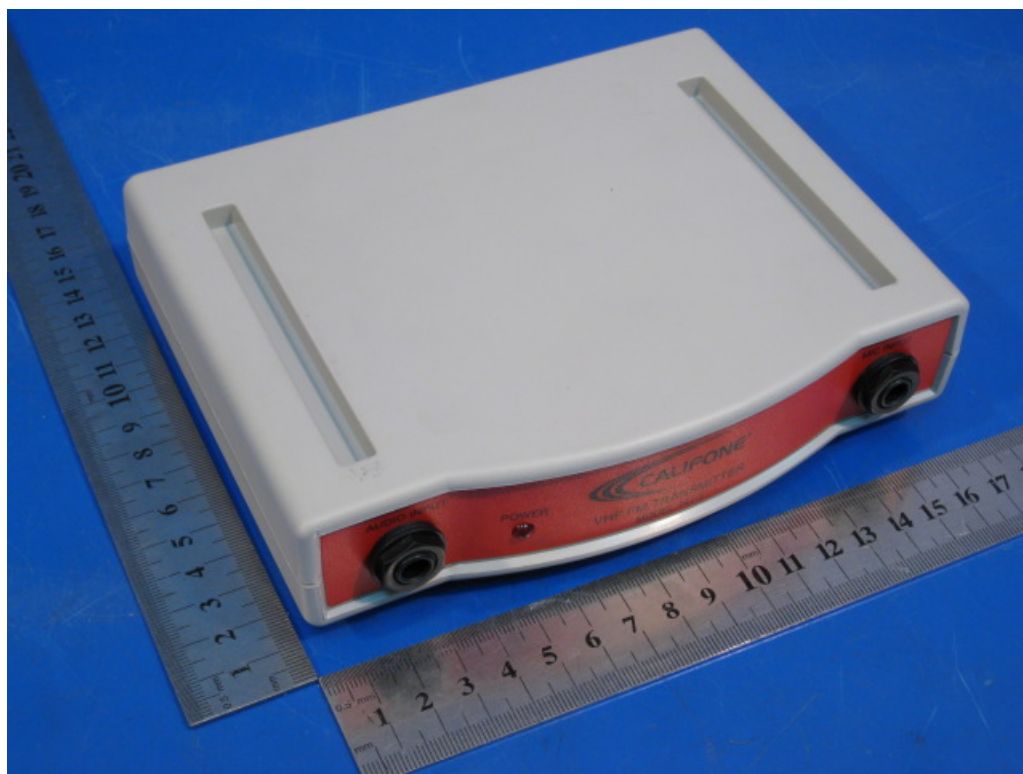


Photo 2 Appearance of EUT

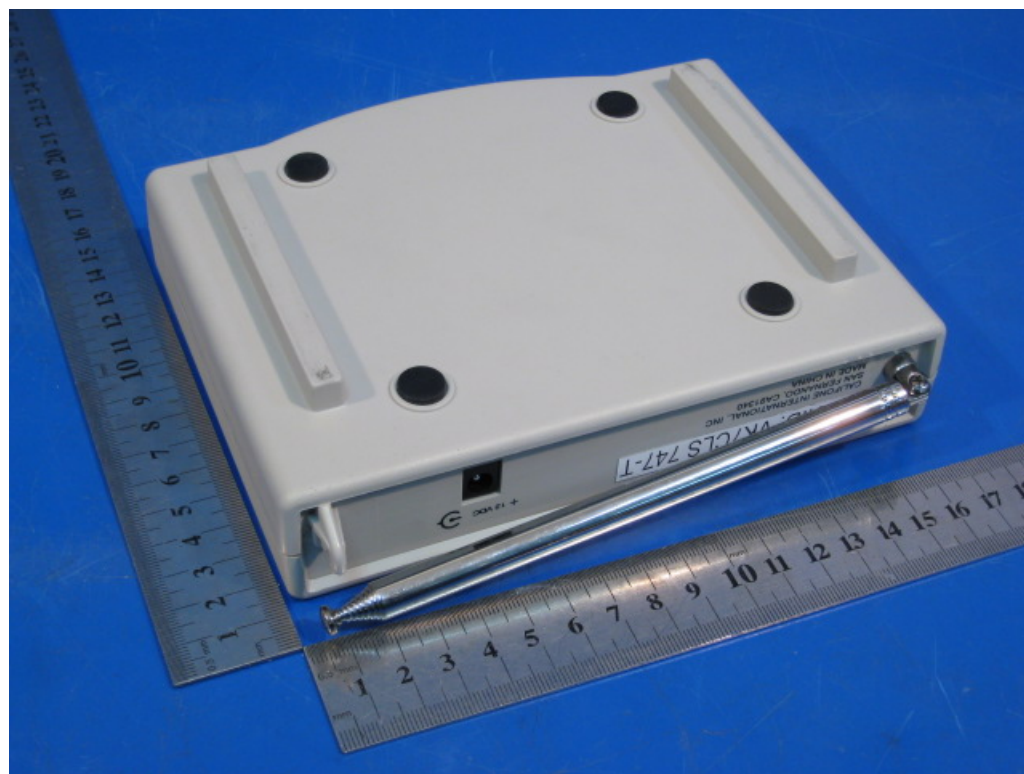


Photo 3 Inside of EUT

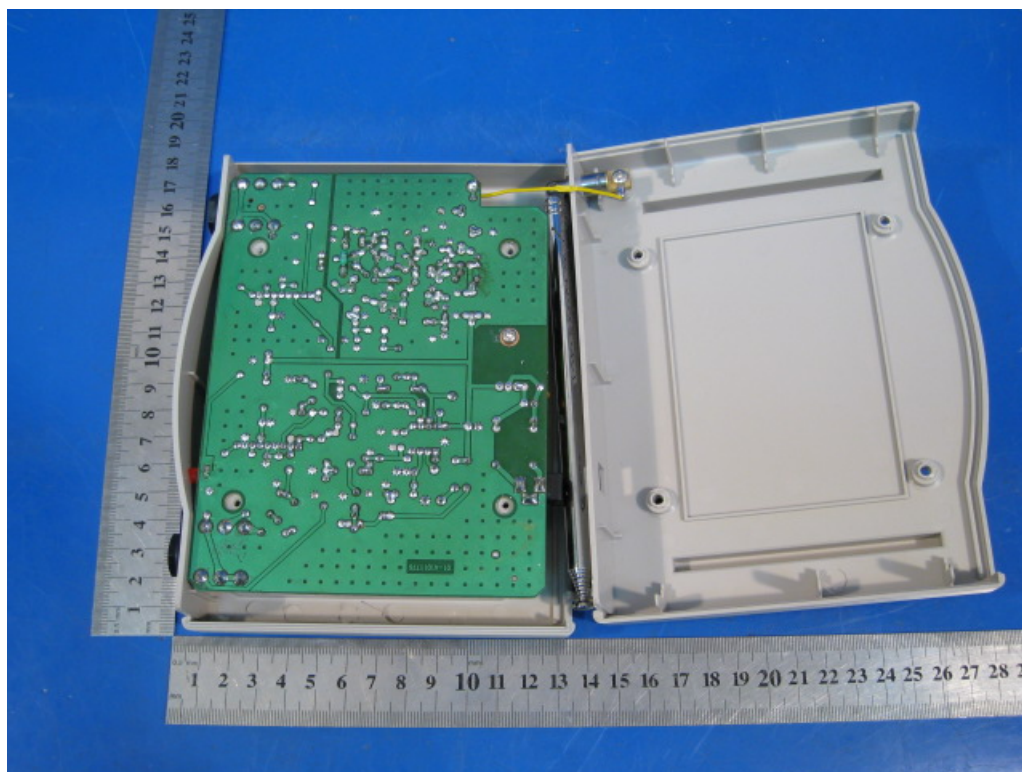


Photo 4 Inside of EUT

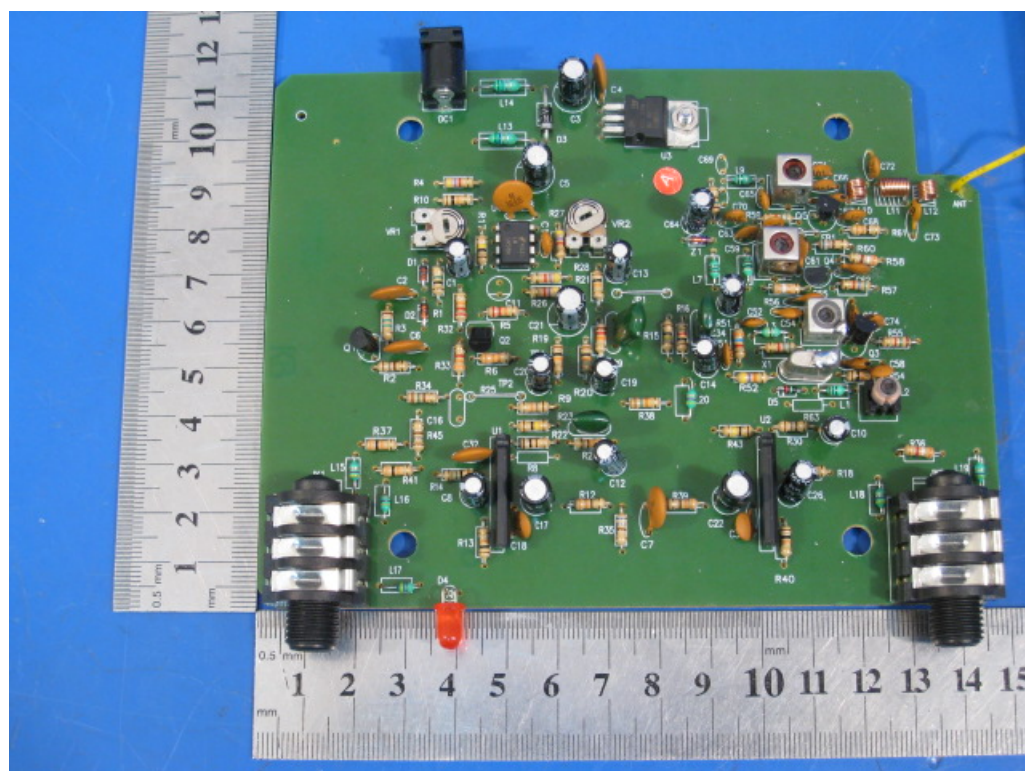


Photo 5 Inside of EUT

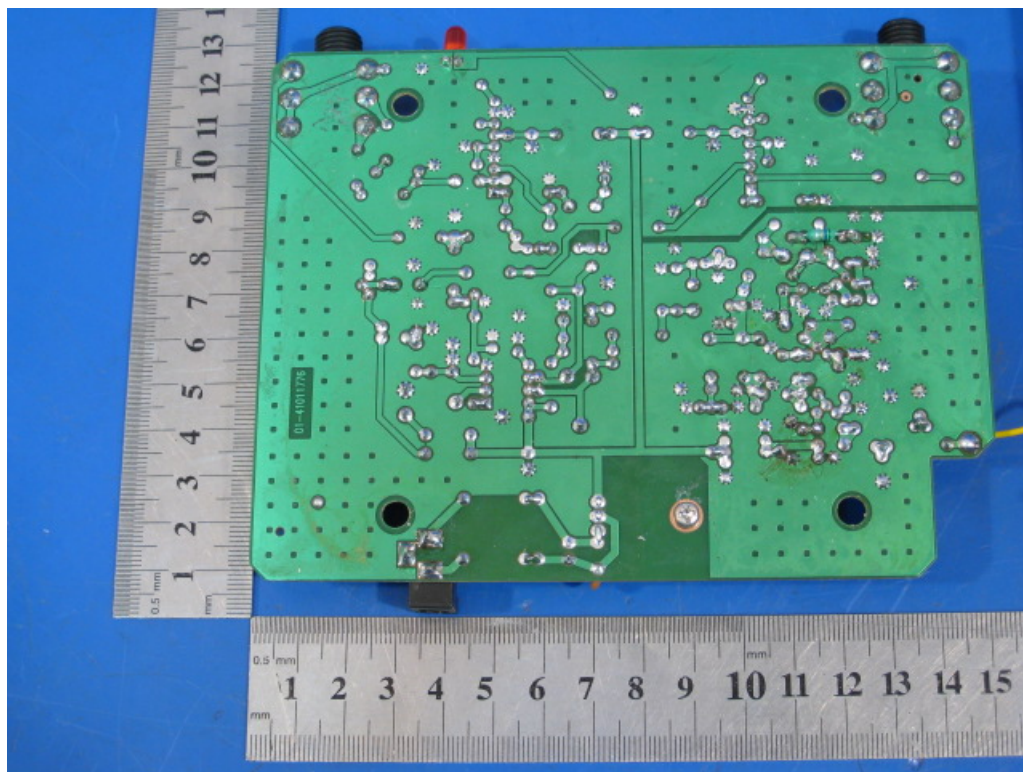


Photo 6 Adaptor

