

FCC Part 15 Subpart C
TEST REPORT
Of

E.U.T. : Slim Overhead
Entertainment System
Model : GM185
FCC ID : VEIGM185
Working Frequency : 88.1 – 107.9 MHz

for

APPLICANT : CENEC CORP.
ADDRESS : 9F, No.27, Ciao-an St., Jhonghe City,
Taipei County, Taiwan, R.O.C

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN
NO. 34. LIN 5. DINGFU TSUEN, LINKOU SHIANG
TAIPEI COUNTY, TAIWAN, 24442, R.O.C.

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Report Number: 07-12-RBF-087

TEST REPORT CERTIFICATION

Applicant : CENEC CORP.
9F, No.27, Ciao-an St., Jhonghe City, Taipei County, Taiwan,
R.O.C

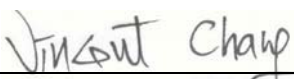
Manufacture : CENEC CORP.
9F, No.27, Ciao-an St., Jhonghe City, Taipei County, Taiwan,
R.O.C

Description of Device :
a) Type of EUT : Slim Overhead Entertainment System
b) Trade Name : ----
c) Model No. : GM185
d) Power Supply : DC 12V

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (2007)

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.

Date Test Item Received : Dec. 19, 2007
Date Test Campaign Completed : Jun. 24, 2008
Date of Issue : Jun. 30, 2008

Test Engineer : 
(Vincent Chang)


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

Table of Contents	Page
1. GENERAL INFORMATION	1
1.1 Product Description.....	1
1.2 Characteristics of Device:	1
1.3 Test Methodology	1
1.4 Test Facility	1
2. DEFINITION AND LIMITS.....	2
2.1 Definition.....	2
2.2 Restricted Bands of Operation	2
2.3 Limitation	2
2.4 Labeling Requirement	3
2.5 User Information	3
3. SYSTEM TEST CONFIGURATION	4
3.1 Justification	4
3.2 Devices for Tested System.....	4
4 RADIATED EMISSION MEASUREMENT.....	5
4.1 Applicable Standard	5
4.2 Measurement Procedure	5
4.3 Measuring Instrument	7
4.4 Test Data.....	8
4.5 Field Strength Calculation.....	12
4.6 Radiated Measurement Photos	13
5 CONDUCTED EMISSION MEASUREMENT	14
5.1 Standard Applicable	14
6 ANTENNA REQUIREMENT.....	15
6.1 Standard Applicable	15
6.2 Antenna Construction.....	15
7 EMISSION BAND MEASUREMENT.....	16
7.1 Standard Applicable	16
7.2 Measurement Procedure	16
7.3 Measurement Equipment.....	16
7.4 Measurement Data.....	16

1. GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : Slim Overhead Entertainment System
- b) Trade Name : ----
- c) Model No : GM185
- d) Frequency Modulation : 88.1~107.9 MHz
- e) Power Supply : DC 12V

1.2 Characteristics of Device:

The EUT is an FM transmitter which is designed to be installed on a vehicle. It works as a radio station which converts the audio signal from a Rear Seat Entertainment system into a radio signal and sends it to nearby radios of your car.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in chapter 13 of ANSI C63.4 (2003)

The EUT 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 EUT.

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. DINGFU TSUEN, LINKOU SHIANG TAIPEI COUNTY, TAIWAN, 24442, R.O.C.

This site has been fully described in a report submitted to your office, and accepted in a letter dated Oct. 20, 2005.

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	4.5-5.15
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 :

Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency MHz	Quasi Peak dB μ V	Average dB μ V
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

* Decreases with the logarithm of the frequency

(2) Radiated Emission Limits :

According to 15.239 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	
	$\mu\text{V}/\text{meter}$	$\text{dB}\mu\text{V}/\text{meter}$
88-108	250	48

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) Emissions Band Limits :

According to 15.239(a), emissions from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

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. SYSTEM TEST CONFIGURATION

3.1 Justification

For both radiated and conducted emissions, the system was configured for testing in a typical fashion as a customer would normally use it. The peripherals other than EUT were connected in normally standing by situation.

All measurement were intentional to maximum the emissions from EUT by varying the connection cables, therefore, the test result is sure to meet the applicable requirement.

3.2 Devices for Tested System

Device	Manufacture	Model / FCC ID.	Description
Slim Overhead Entertainment System *	CENEC CORP.	GM185/ VEIGM185	1.5m Unshielded DC Power Liine 0.8 Unshielded AV Cable 0.8 Unshielded USB Cable
DVD Player	SONY	DVP-530NS	1.5m Unshielded AC Power Liine
Power Supply	GW	GPC-3030D	1.5m Unshielded DC Power Liine

Remark “*” means equipment under test.

4 RADIATED EMISSION MEASUREMENT

4.1 Applicable Standard

For intentional radiators, the radiated emission shall comply with §15.209(a).

4.2 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 at 30MHz to 1 GHz configuration

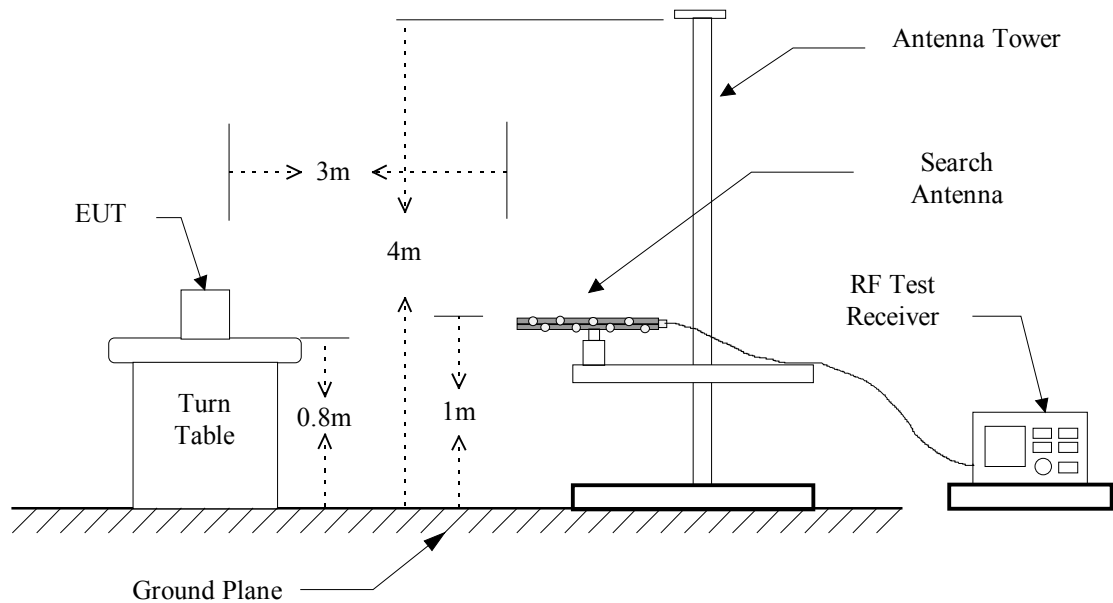
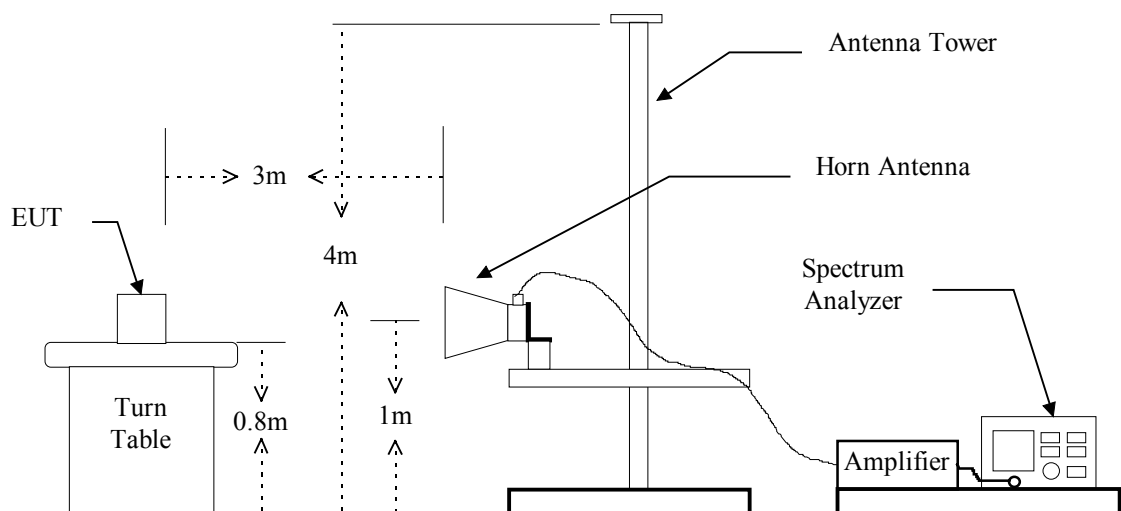


Figure 2 : Frequencies measured above 1 GHz configuration



4.3 Measuring Instrument

The following instrument are used for radiated emissions measurement:

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Rohde & Schwarz	FSP40	2008/08/11
RF Test Receiver	Rohde & Schwarz	ESCI	2008/12/26
Horn Antenna	EMCO	3115	2008/08/12
Log periodic Antenna	EMCO	3146	2008/08/15
Line Impedance Stabilization network	EMCO	ESH2-Z5	2008/09/20
Horn Antenna	EMCO	3116	2009/05/16
Preamplifier	Hewlett-Packard	8449B	2008/09/19
Preamplifier	Hewlett-Packard	8447D	2009/15/16
Spectrum Analyzer	Hewlett-Packard	8564E	2009/05/27

Measuring instrument setup in measured frequency band when specified detector function is used :

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
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	10Hz

4.4 Test Data

4.4.1 Fundamental and Harmonics

A. Fundamental

Fundamental Frequency : 88.1 MHz

Test Date : Jun. 16, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	V Ave	H Peak	V Ave		Peak	Ave	Peak	Ave			
88.100	50.9	***	47.4	***	-14.2	36.7	***	68.0	48.0	-31.3	1.5	72

Fundamental Frequency : 98.1 MHz

Test Date : Jun. 16, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	V Ave	H Peak	V Ave		Peak	Ave	Peak	Ave			
98.100	58.7	***	54.2	***	-13.9	44.8	***	68.0	48.0	-23.2	1.5	62

Fundamental Frequency : 107.9 MHz

Test Date : Jun. 16, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	V Ave	H Peak	V Ave		Peak	Ave	Peak	Ave			
107.900	52.4	***	49.1	***	-12.2	40.2	***	68.0	48.0	-27.8	1.5	62

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

B. Harmonics

Frequency : 88.1 MHz

Test Date : Jun. 27, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
176.200	H	46.9	-9.1	37.8	43.5	-5.7	92	1.5
264.300	H/V	---	-3.8	---	46.0	---	---	---
352.400	H/V	---	-10.1	---	46.0	---	---	---
440.500	H/V	---	-5.6	---	46.0	---	---	---
528.600	H/V	---	-5.0	---	46.0	---	---	---
616.700	H/V	---	-3.7	---	46.0	---	---	---
704.800	H/V	---	-1.0	---	46.0	---	---	---
792.900	H/V	---	0.4	---	46.0	---	---	---
881.000	H/V	---	2.3	---	46.0	---	---	---

Frequency : 98.1 MHz

Test Date : Jun. 27, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
196.200	H	35.0	-7.6	27.4	43.5	-16.1	62	1.5
294.300	H/V	---	-1.5	---	46.0	---	---	---
392.400	H/V	---	-6.2	---	46.0	---	---	---
490.500	H/V	---	-4.4	---	46.0	---	---	---
588.600	H/V	---	-4.9	---	46.0	---	---	---
686.700	H/V	---	-1.0	---	46.0	---	---	---
784.800	H/V	---	0.1	---	46.0	---	---	---
882.900	H/V	---	2.3	---	46.0	---	---	---
981.000	H/V	---	3.4	---	54.0	---	---	---

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Frequency : 107.9 MHz

Test Date : Jun. 27, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
215.800	H	33.4	-6.1	27.3	43.5	-16.2	79	1.5
323.700	H/V	---	-6.7	---	46.0	---	---	---
431.600	H/V	---	-5.5	---	46.0	---	---	---
539.500	H/V	---	-5.1	---	46.0	---	---	---
647.400	H/V	---	-2.9	---	46.0	---	---	---
755.300	H/V	---	-0.3	---	46.0	---	---	---
863.200	H/V	---	2.3	---	46.0	---	---	---
971.100	H/V	---	3.3	---	54.0	---	---	---
1079.000	H/V	---	-9.4	---	54.0	---	---	---

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.4.2 Other Emissions

Operation Mode : FM other Emission

Test Date : Jun. 27, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
216.180	V	44.3	-6.1	38.2	46.0	-7.8	184	1.0
270.100	H	42.2	-3.6	38.6	46.0	-7.4	192	1.0
394.500	V	47.8	-6.3	41.5	46.0	-4.5	188	1.0
444.200	H	46.5	-5.6	40.9	46.0	-5.1	190	1.0
467.300	V	46.3	-4.8	41.5	46.0	-4.5	185	1.0
491.800	H	48.6	-4.4	44.2	46.0	-1.8	194	1.0

Operation Mode : DVD Play

Test Date : Jun. 27, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
138.100	H	42.0	-10.9	31.1	43.5	-12.4	76	1.5
216.180	V	44.1	-6.1	38.0	46.0	-8.0	194	1.0
270.110	H	42.2	-3.6	38.6	46.0	-7.4	79	1.5
394.500	V	47.9	-6.3	41.6	46.0	-4.4	192	1.0
467.300	V	46.3	-4.8	41.5	46.0	-4.5	185	1.0
491.800	H	48.6	-4.4	44.2	46.0	-1.8	74	1.5

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Operation Mode : AUX in

Test Date : Jun. 27, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
138.100	H	42.0	-10.9	31.1	43.5	-12.4	62	1.5
216.180	V	44.1	-6.1	38.0	46.0	-8.0	188	1.0
270.110	H	42.2	-3.6	38.6	46.0	-7.4	63	1.5
394.500	V	47.9	-6.3	41.6	46.0	-4.4	174	1.0
444.200	H	46.5	-5.6	40.9	46.0	-5.1	180	1.5
467.300	V	46.3	-4.8	41.5	46.0	-4.5	192	1.0

Operation Mode : USB Mode

Test Date : Jun. 27, 2008 Temperature : 25 °C Humidity : 65 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
216.180	V	44.3	-6.1	38.2	46.0	-7.8	179	1.0
270.100	H	42.2	-3.6	38.6	46.0	-7.4	79	1.5
394.500	V	47.8	-6.3	41.5	46.0	-4.5	192	1.0
444.200	H	46.5	-5.6	40.9	46.0	-5.1	74	1.5
467.300	V	46.3	-4.8	41.5	46.0	-4.5	176	1.0
491.800	H	48.6	-4.4	44.2	46.0	-1.8	62	1.5

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.5 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)

4.6 Radiated Measurement Photos



5 CONDUCTED EMISSION MEASUREMENT

5.1 Standard Applicable

This EUT is excused from investigation of conducted emission, for it is powered by DC battery. According to §15.207 (d), measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

6 ANTENNA REQUIREMENT

6.1 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.

6.2 Antenna Construction

The antenna is permanently mounted on EUT, no consideration of replacement.

7 EMISSION BAND MEASUREMENT

7.1 Standard Applicable

According to 15.239(a), emissions from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

7.2 Measurement 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 as shown in figure 1 and measurement the turn on the EUT. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 10 kHz and 100kHz respectively with a convenient frequency span including 200kHz bandwidth of the emission.
4. Mark the bandwidth of 200kHz points and plot the graph on spectrum analyzer.
5. Repeat above procedures until all measured frequencies were complete.

7.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Rohde & Schwarz	FSP40	2008/08/11

7.4 Measurement Data

Test Date : Jun. 23, 2008 Temperature : 25 °C Humidity : 60%

Test result:

The 26 dB bandwidth of 88.104 MHz = 180.0 kHz < 200 kHz.

The 26 dB bandwidth of 98.102 MHz = 184.0 kHz < 200 kHz.

The 26 dB bandwidth of 107.902 MHz = 184.0 kHz < 200 kHz.

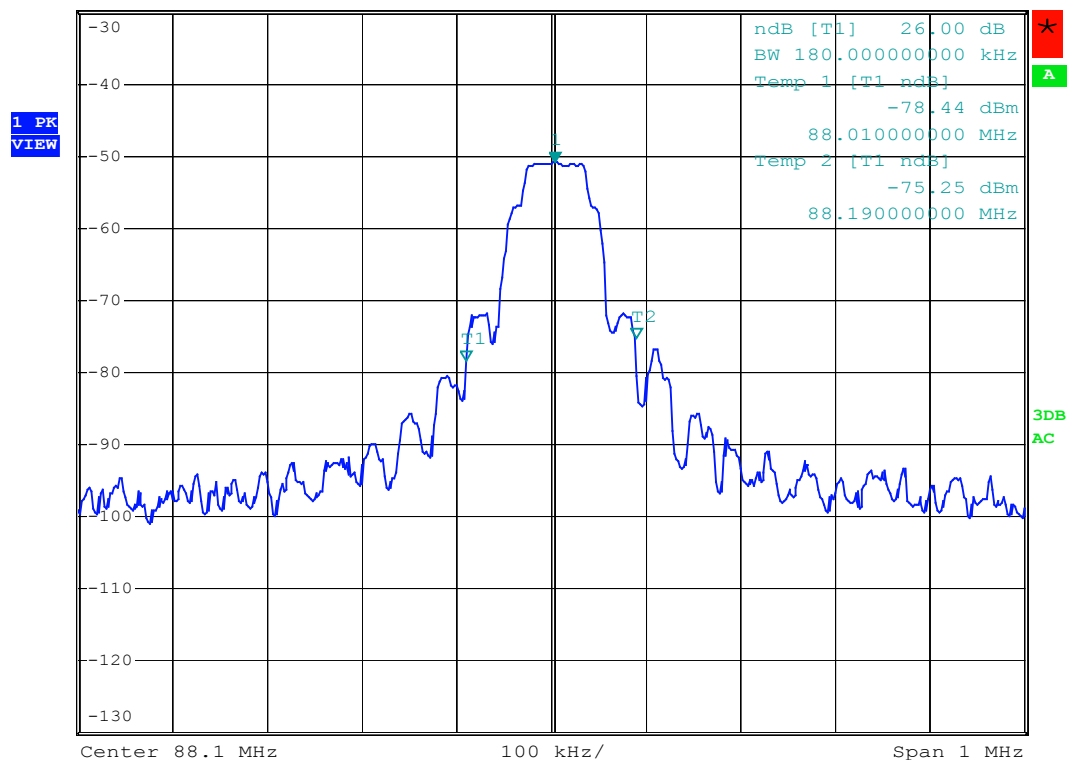
The 200 Khz band lie wholly within the frequency range of 88-108 MHz.

Note :

1. Bandwidth test was done with a real audio music input signal. There is no user controlled function except frequency tuning.
2. Please see appendix 1 for Plotted Data.

Mode: 88.1MHz

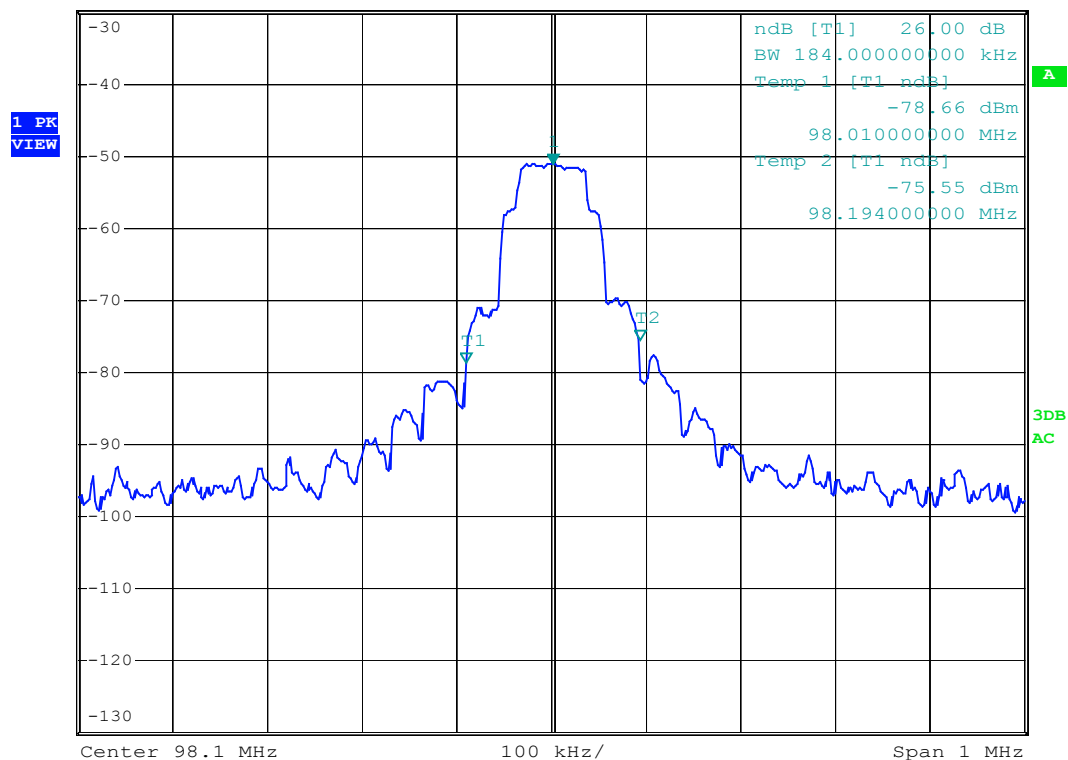
*RBW 30 kHz Marker 1 [T1]
VBW 100 kHz -50.82 dBm
Ref -30 dBm Att 10 dB SWT 2.5 ms 88.104000000 MHz



Date: 23.JUN.2008 15:18:47

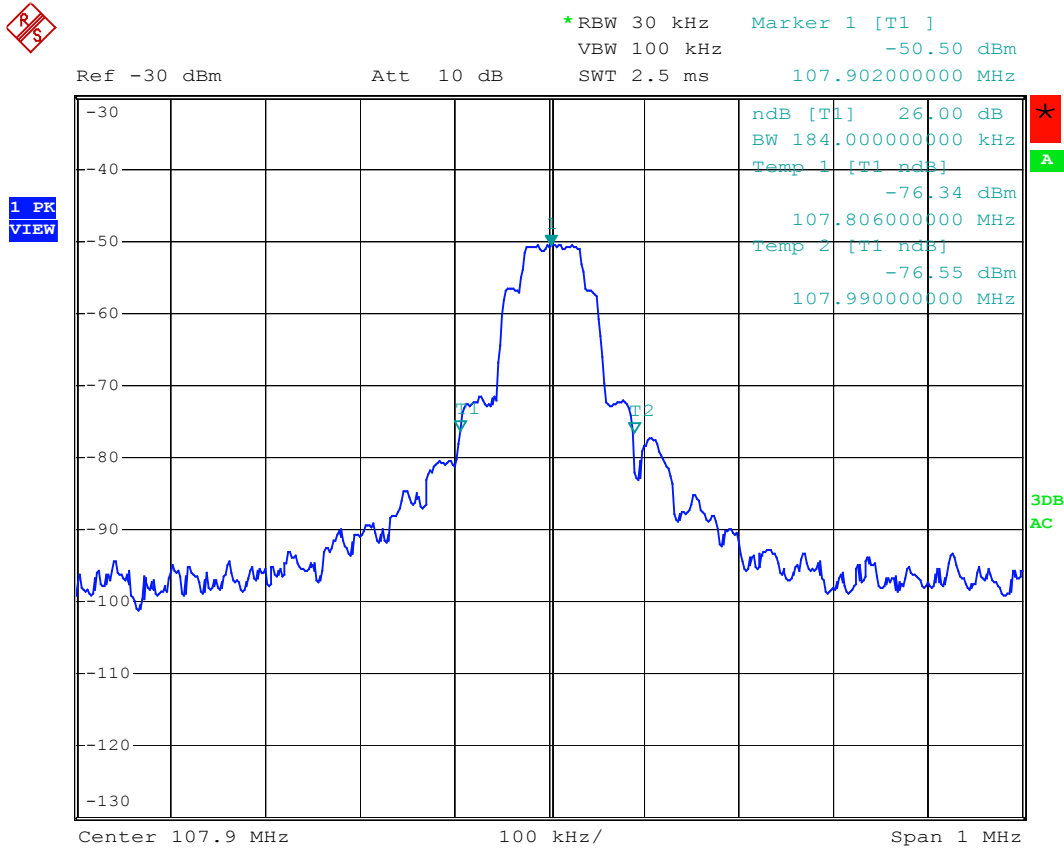
Mode: 98.1MHz

*RBW 30 kHz Marker 1 [T1]
VBW 100 kHz -51.09 dBm
Ref -30 dBm Att 10 dB SWT 2.5 ms 98.102000000 MHz

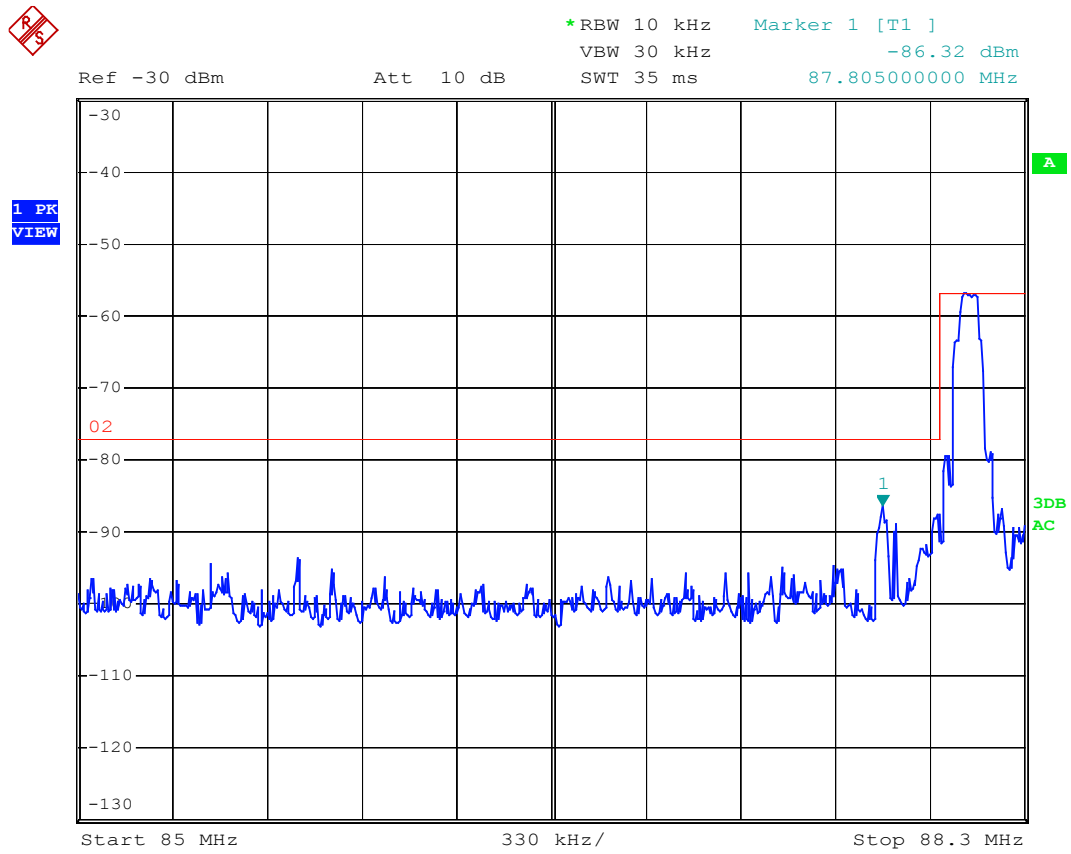


Date: 23.JUN.2008 15:21:14

Mode: 107.9MHz



Date: 23.JUN.2008 15:15:23



Date: 23.JUN.2008 15:31:47



*RBW 10 kHz Marker 1 [T1]
VBW 30 kHz -90.61 dBm
SWT 25 ms 108.790200000 MHz

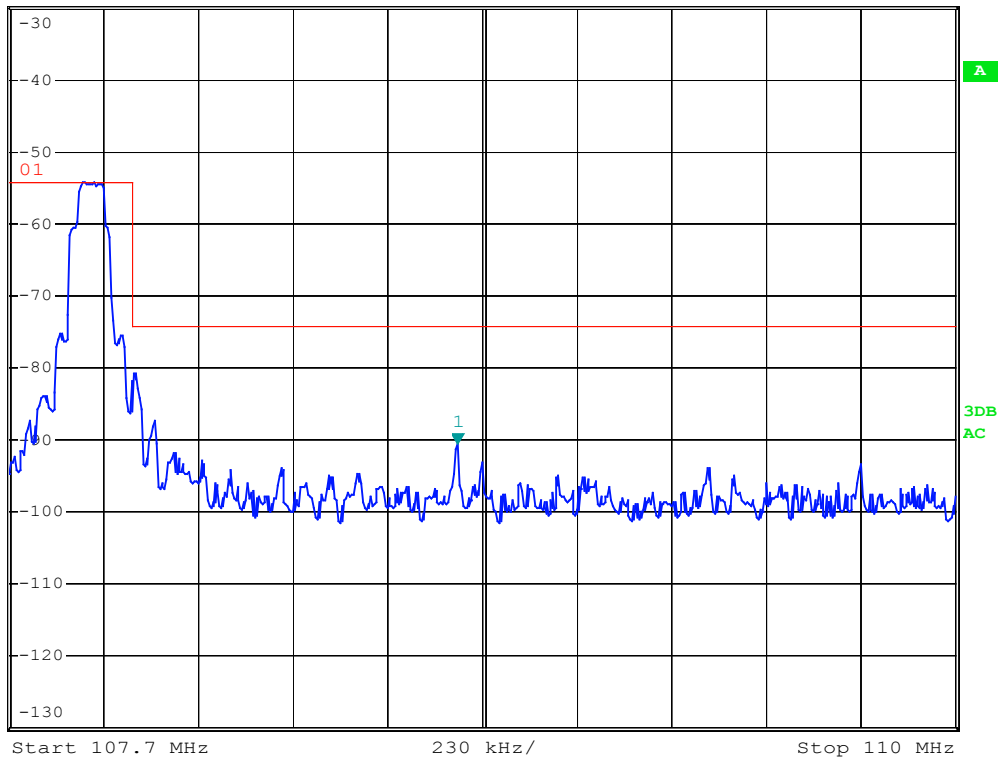
Ref -30 dBm

Att 10 dB

SWT 25 ms

108.790200000 MHz

1 PK
VIEW



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