

TEST REPORT FOR CERTIFICATION

On Behalf of

Jow Tong Technology Co., Ltd.

Digital FM Transmitter

Model No. : ST-31

FCC ID : QPRST31

Prepared for : Jow Tong Technology Co., Ltd.
46, Lane 337, Chung Cheng Rd., Yung Kang,
Tainan Hsien 710, Taiwan, R.O.C.

Prepared by : Audix Corporation
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File Number : EM930616
Report Number : EM-F930113
Date of Test : May 26 ~ Jun. 04, 2004
Date of Report : Jun. 10, 2004

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TEST REPORT CERTIFICATION

Applicant : Jow Tong Technology Co., Ltd.
 Manufacturer : Jow Tong Technology Co., Ltd.
 EUT Description : Digital FM Transmitter
 FCC ID : QPRST31
 (A) MODEL NO. : ST-31
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC +12V~+16V

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, DEC. 2003
 AND ANSI C63.4-2001
 (FCC CFR 47 Part 15C, §15.203, §15.207, §15.209 and §15.239)

The device described above was tested by AUDIX CORPORATION. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits both radiated and conducted emissions.

The measurement results are contained in this test report and AUDIX CORPORATION. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX CORPORATION.

Date of Test: May 26 ~ Jun. 04, 2004

Prepared by: Monica Chang Jun. 14. 2004
 (Monica Chang/Assistant)

Test Engineer: Allen Wang Jun. 15 '04
 (Allen Wang/Deputy Manager)

Approved & Authorized Signer: Leon Liu Jun 15 2004
 (Leon Liu/Senior Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Digital FM Transmitter (It's a transmitting device to hold an MP3/iPod or a CD player to transmit music signal that can be accepted by Car radio FM band)
Model Number	:	ST-31
FCC ID	:	QPRST31
Applicant	:	Jow Tong Technology Co., Ltd. 46, Lane 337, Chung Cheng Rd., Yung Kang, Tainan Hsien 710, Taiwan, R.O.C.
Manufacturer	:	Jow Tong Technology Co., Ltd. 46, Lane 337, Chung Cheng Rd., Yung Kang, Tainan Hsien 710, Taiwan, R.O.C.
Fundamental Frequency Range:		FM: 88.1MHz~107.9MHz
Radio Frequency Adjustment	:	0.1MHz / Per Step.
Input Voltage & Current	:	DC +12V~+16V, 2A (Max.)
Holder/ Transmitter Base	:	Jow Tong
Power Plug for Car	:	Jow Tong 12V~16V
Date of Receipt of Sample	:	May 25, 2004
Date of Test	:	May 26 ~ Jun. 04, 2004

Remark:

Antenna requirement: This EUT's transmitter antenna is a kind of coil ANT and solder on PCB, comply with §15.203 and inform to user that any change and modify is prohibited.

1.2. Tested Supporting System Details

1.2.1. AUDIO PLAYER (MP3/iPod, 10GB)

Model Number : A1040
 Serial Number : GQ3270HVNRH
 FCC ID : By DoC
 Manufacturer : Apple Computer
 Power Supply : DC 8-30V, 1.0A (MAX)
 HDD Unit : Toshiba, M/N: MK1003GAL

1.2.2. DC POWER SUPPLY (DC 12V)

Model Number : 3303A
 Serial Number : N/A
 Manufacturer : Topward
 Power Wire (to EUT) : Non-Shielded, Detachable, 0.8m *2
 Power Cord : Non-Shielded, Detachable, 1.8m

1.3. Description of Test Facility

Name of Firm : Audix Corporation
 Technical Division EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

Test Location & Facility (AC) : **Semi-Anechoic Chamber**
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.
 May. 16, 2003 Re-File on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	± 1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.94dB

Remark : Uncertainty = $ku_c(y)$

2. CONDUCTED EMISSION MEASUREMENT

【 The EUT only employs battery power for operation, no conductive emission limits are required according to FCC Part 15 Section §15.207 】

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

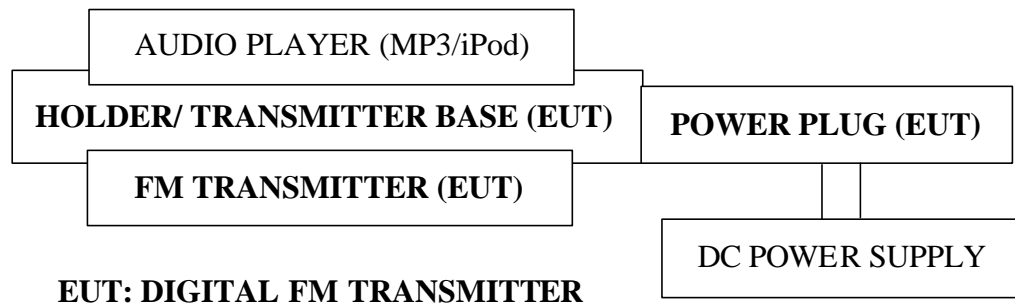
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 24, 03'	Sep. 23, 04'
2.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 12, 04'	Mar. 11, 05'
3.	Broadband Antenna	Schwarzbeck	BBA 9106	A3L	Feb. 21, 04'	Feb. 20, 05'
4.	Broadband Antenna	Schwarzbeck	UHALP9108-A	0138	Feb. 21, 04'	Feb. 20, 05'

3.1.2. For Frequency Range Above 1GHz (at Semi-Anechoic Chamber)

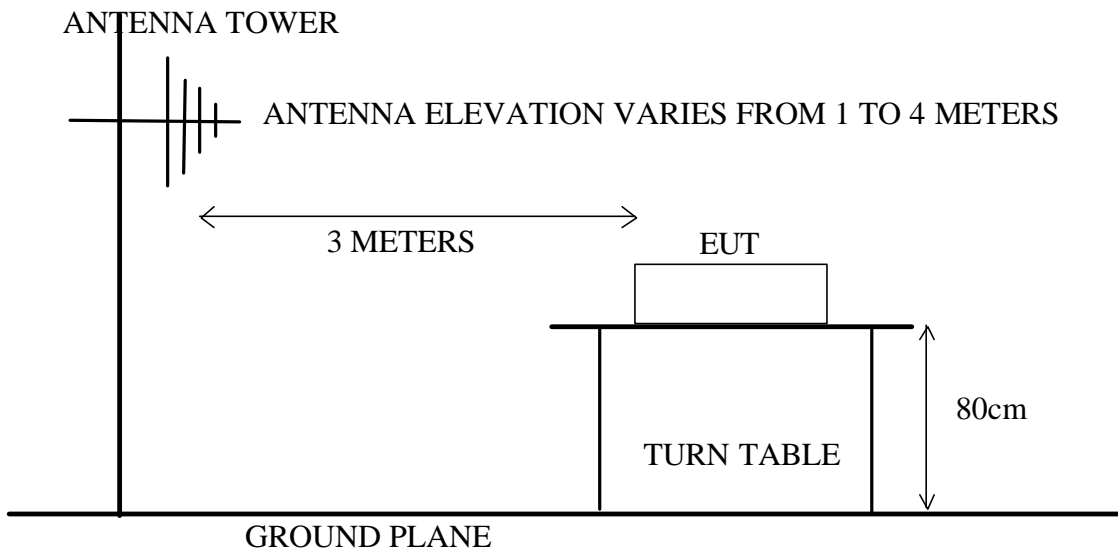
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 24, 03'	Sep. 23, 04'
2.	Pre-Amplifier	HP	8449B	3008A01284	Jul. 02, 03'	Jul. 01, 04'
3.	Horn Antenna	EMCO	3115	9112-3775	May 05, 04'	May 04, 05'

3.2. Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram



3.3. Radiation Limit (Comply with §15.239 & §15.209)

3.3.1. §15.239 Radiated Emission Limits (Fundamental Frequency)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
Fundamental Freq.	3	250	48.0 (Average)
Fundamental Freq.	3	2500	68.0 (Peak) ^{*(2)}

Remark : (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)

(2) The provision in section 15.35 for limiting peak emission apply.

3.3.2. §15.209 Radiated Emission Limits (Spurious Frequency)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1GHz	3	---	54 (Average) ^{*(4)}
Above 1GHz	3	---	74 (Peak) ^{*(4)}

Remark : (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)

(2) The tighter limit applies at the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and 15.205(b) & Part 15.209(e).

3.4. EUT's Configuration during Compliance Measurement

The following equipment was installed on radiated measurement to meet the commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

3.4.1. Digital FM Transmitter (EUT)

Model Number	:	ST-31
Serial Number	:	N/A
FCC ID	:	QPRST31
Manufacturer	:	Jow Tong Technology Co., Ltd.
Fundamental Frequency	:	88.1MHz~107.9MHz
Holder/ Transmitter Base	:	Jow Tong
Power Plug for Car	:	Jow Tong 12V~16V

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown on 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. The EUT was linked to Audio Player and the transmitting frequency was tuned in to 88.1MHz, 98.0MHz, 107.9MHz to measure field strength.
- 3.5.4. The other peripheral devices were driven and operated in turn during all testing.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2001 regulations.

The bandwidth of test receiver was set at 120kHz and resolution bandwidth of spectrum analyzer was set at 1MHz.

The frequency range from 30MHz to 2678MHz was checked.

For frequency range 30MHz~1000MHz, The EUT was tested with the following test modes during the testing and all the test results are listed in section 3.7.1.

Mode	Transmitting Frequency	Power Supply
1.	88.1MHz	Power Plug for Car (DC 12V)
2.	98.0MHz	
3.	107.9MHz	

For frequency range above 1GHz, the test mode [**Mode 3**] was selected to test and the test results are listed in section 3.7.2.

3.7. Radiated Emission Noise Measurement Results

PASSED. Please refer to the following pages.

The frequency spectrum from 30 MHz to 2678MHz is investigated. All the emissions not reported below are too low against the FCC Part 15 Subpart C official limits.

3.7.1. 30MHz to 1000MHz frequency and 10 meters distance measurement.

Date of Test : Jun. 04, 2004 Temperature : 24

EUT : Digital FM Transmitter Humidity : 67%

Test Mode : Transmitting frequency, 88.1MHz
(Power Plug for Car, DC 12V)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Horizontal dBµV	Emission Level Horizontal dBµV/m	Limits dBµV/m	Margin dB

Fundamental Freq. (Average Value)						
88.100	15.42	2.00	21.62	39.03	48.00	8.97
Fundamental Freq. (Peak Value)						
88.100	15.42	2.00	24.86	42.28	68.00	25.72
Spurious Freq. (Quasi-Peak Value)						
176.210	21.21	2.90	3.02	27.13	43.50	16.37
192.960	21.66	3.00	6.48	31.13	43.50	12.37
264.320	24.62	3.70	1.04	29.36	46.00	16.64
352.400	15.55	4.30	0.29	20.14	46.00	25.86
421.880	17.03	5.10	4.22	26.34	46.00	19.66
460.680	17.93	5.70	7.06	30.68	46.00	15.32
515.000	19.97	6.80	7.63	34.40	46.00	11.60
567.380	20.97	6.50	2.77	30.25	46.00	15.75
621.700	21.37	6.20	5.71	33.28	46.00	12.72
676.020	22.89	6.40	6.33	35.61	46.00	10.39
691.540	23.22	6.50	6.05	35.76	46.00	10.24
784.660	23.87	6.90	3.33	34.10	46.00	11.90

- Remarks :
1. Emission Level = Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jun. 04, 2004 Temperature : 24
 EUT : Digital FM Transmitter Humidity : 67%
 Test Mode : Transmitting frequency, 88.1MHz
(Power Plug for Car, DC 12V)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Vertical dBµV	Emission Level Vertical dBµV/m	Limits dBµV/m	Margin dB

Fundamental Freq. (Average Value)						
88.100	15.46	2.00	22.45	39.91	48.00	8.09
Fundamental Freq. (Peak Value)						
88.100	15.46	2.00	25.35	42.81	68.00	25.19
Spurious Freq. (Quasi-Peak Value)						
62.980	13.19	1.63	12.55	27.38	40.00	12.62
129.910	18.65	2.40	5.64	26.69	43.50	16.81
176.470	20.66	2.90	-0.38	23.18	43.50	20.32
266.680	25.62	3.70	0.85	30.17	46.00	15.83
352.040	15.78	4.30	2.16	22.24	46.00	23.76
406.360	17.23	4.90	5.83	27.96	46.00	18.04
476.200	19.06	6.00	9.65	34.71	46.00	11.29
528.580	20.22	6.90	11.09	38.21	46.00	7.79
547.010	21.00	6.97	9.95	37.92	46.00	8.08
588.720	21.52	6.30	10.71	38.52	46.00	7.48
651.770	21.75	6.30	10.30	38.34	46.00	7.66
676.020	23.29	6.40	7.94	37.63	46.00	8.37
784.660	25.40	6.90	6.58	38.88	46.00	7.12
838.010	26.57	7.10	5.29	38.96	46.00	7.04
868.080	25.27	7.20	4.58	37.05	46.00	8.95
891.360	25.79	7.30	3.15	36.24	46.00	9.76

Remarks : 1. Emission Level = Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jun. 04, 2004 Temperature : 24
 EUT : Digital FM Transmitter Humidity : 67%
 Test Mode : Transmitting frequency, 98MHz
(Power Plug for Car, DC 12V)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Horizontal dB μ V	Emission Level Horizontal dB μ V/m	Limits dB μ V/m	Margin dB

Fundamental Freq. (Average Value)						
98.000	16.84	2.10	20.58	39.52	48.00	8.48
Fundamental Freq. (Peak Value)						
98.000	16.84	2.10	22.80	41.74	68.00	26.26
Spurious Freq. (Quasi-Peak Value)						
196.000	21.85	3.00	10.42	35.27	43.50	8.23
256.010	24.28	3.50	2.73	30.51	46.00	15.49
273.470	25.14	3.70	0.98	29.82	46.00	16.18
294.000	26.33	3.96	-0.04	30.24	46.00	15.76
323.910	15.10	4.14	12.44	31.68	46.00	14.32
337.490	15.09	4.20	11.03	30.32	46.00	15.68
360.770	16.24	4.43	0.54	21.21	46.00	24.79
432.550	17.28	5.20	9.73	32.21	46.00	13.79
490.750	18.58	6.30	-0.36	24.52	46.00	21.48
508.210	19.14	6.80	10.87	36.81	46.00	9.19
528.580	19.69	6.90	10.66	37.24	46.00	8.76
599.390	21.30	6.30	8.52	36.12	46.00	9.88
624.610	21.31	6.20	7.82	35.33	46.00	10.67
691.540	23.22	6.50	6.28	35.99	46.00	10.01
782.720	23.99	6.90	4.75	35.63	46.00	10.37

- Remarks : 1. Emission Level = Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jun. 04, 2004 Temperature : 24
 EUT : Digital FM Transmitter Humidity : 67%
 Test Mode : Transmitting frequency, 98MHz
(Power Plug for Car, DC 12V)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Vertical dBµV	Emission Level Vertical dBµV/m	Limits dBµV/m	Margin dB

Fundamental Freq. (Average Value)						
98.000	17.54	2.10	20.39	40.03	48.00	7.97
Fundamental Freq. (Peak Value)						
98.000	17.54	2.10	23.26	42.90	68.00	25.10
Spurious Freq. (Quasi-Peak Value)						
66.860	12.52	1.70	9.13	23.35	40.00	16.65
131.850	18.94	2.40	7.24	28.58	43.50	14.92
196.000	22.50	3.00	2.19	27.69	43.50	15.81
294.000	26.47	3.96	1.91	32.34	46.00	13.66
323.910	15.54	4.14	7.44	27.12	46.00	18.88
392.000	17.65	4.70	0.75	23.10	46.00	22.90
432.550	17.16	5.20	10.60	32.96	46.00	13.04
508.210	20.58	6.80	10.88	38.26	46.00	7.74
528.580	20.22	6.90	11.89	39.01	46.00	6.99
578.050	21.80	6.40	10.49	38.69	46.00	7.31
599.390	21.64	6.30	10.77	38.71	46.00	7.29
691.540	23.32	6.50	8.32	38.14	46.00	7.86
721.610	22.11	6.50	9.91	38.52	46.00	7.48
782.720	25.39	6.90	4.74	37.03	46.00	8.97
817.640	24.68	7.00	6.44	38.12	46.00	7.88

Remarks : 1. Emission Level = Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jun. 04, 2004 Temperature : 24
 EUT : Digital FM Transmitter Humidity : 67%
 Test Mode : Transmitting frequency, 107.9MHz
(Power Plug for Car, DC 12V)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Horizontal dBµV	Emission Level Horizontal dBµV/m	Limits dBµV/m	Margin dB

Fundamental Freq. (Average Value)						
107.902	17.87	2.20	20.13	40.20	48.00	7.80
Fundamental Freq. (Peak Value)						
107.902	17.87	2.20	22.19	42.27	68.00	25.73
Spurious Freq. (Quasi-Peak Value)						
191.990	21.60	3.00	11.70	36.30	43.50	7.20
215.800	21.86	3.20	7.65	32.71	43.50	10.79
308.390	14.93	4.00	5.74	24.67	46.00	21.33
323.712	15.10	4.14	5.25	24.49	46.00	21.51
406.360	17.35	4.90	2.10	24.35	46.00	21.65
431.590	17.27	5.20	-0.01	22.46	46.00	23.54
460.680	17.93	5.70	5.67	29.29	46.00	16.71
514.030	19.96	6.80	6.79	33.55	46.00	12.45
541.190	19.25	7.01	0.80	27.06	46.00	18.94
567.380	20.97	6.50	5.95	33.43	46.00	12.57
644.980	21.15	6.30	4.38	31.82	46.00	14.18
676.020	22.89	6.40	4.92	34.20	46.00	11.80
784.660	23.87	6.90	2.41	33.18	46.00	12.82

- Remarks : 1. Emission Level = Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jun. 13, 2004 Temperature : 24
 EUT : Digital FM Transmitter Humidity : 67%
 Test Mode : Transmitting frequency, 107.9MHz
(Power Plug for Car, DC 12V)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Vertical dBµV	Emission Level Vertical dBµV/m	Limits dBµV/m	Margin dB

Fundamental Freq. (Average Value)						
107.902	17.80	2.20	19.02	39.03	48.00	8.97
Fundamental Freq. (Peak Value)						
107.902	17.80	2.20	22.04	42.04	68.00	25.96
Spurious Freq. (Quasi-Peak Value)						
57.160	14.00	1.60	8.66	24.26	40.00	15.74
131.850	18.94	2.40	3.82	25.16	43.50	18.34
215.803	22.37	3.20	3.47	29.04	43.50	14.46
251.160	24.92	3.50	1.60	30.01	46.00	15.99
323.712	15.54	4.14	2.84	22.52	46.00	23.48
431.600	17.16	5.20	-1.44	20.92	46.00	25.08
476.200	19.06	6.00	9.72	34.78	46.00	11.22
515.000	20.87	6.80	9.86	37.53	46.00	8.47
567.380	22.08	6.50	8.77	37.35	46.00	8.65
588.720	21.52	6.30	8.78	36.59	46.00	9.41
676.020	23.29	6.40	6.34	36.03	46.00	9.97
755.310	24.74	6.70	5.76	37.20	46.00	8.81
810.850	24.54	7.00	5.72	37.27	46.00	8.74
837.040	26.47	7.10	3.80	37.37	46.00	8.63

- Remarks : 1. Emission Level = Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

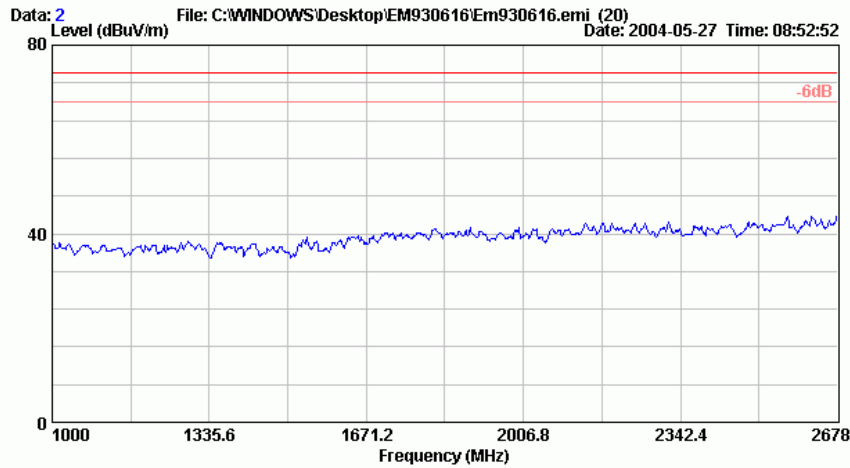
3.7.2. Above 1GHz frequency and 3 meters distance measurement.

Because the emission level from EUT is too low to be measured, therefore, the reading values are not reported. All the scanning waveform with peak detector are listed in the below.

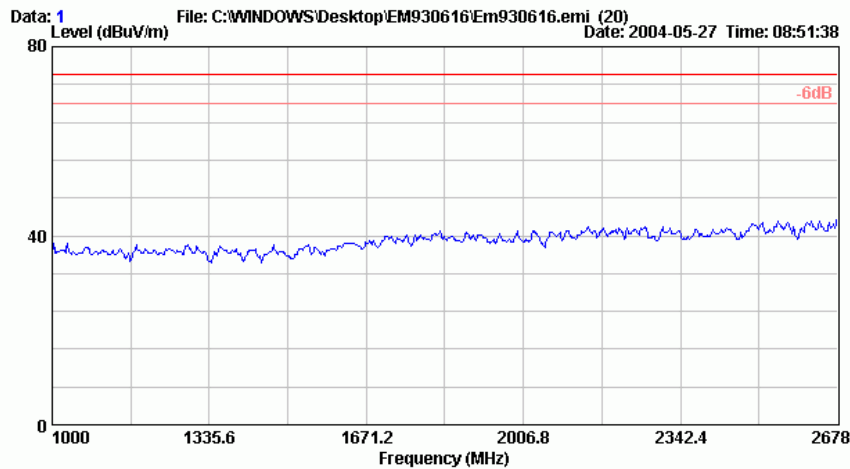
Date of Test : May 27, 2004 Temperature : 24
 EUT : Digital FM Transmitter Humidity : 67%
 Test Mode : Transmitting frequency, 107.9MHz
(Power Plug for Car, DC 12V)



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 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



Site : A/C Chamber Date : 2
 Condition : 3m 3115 Polarity: HORIZONTAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 24°C/67% Engineer: Johnny Wang
 EUT : Digital FM Transmitter
 Power Rating : DC 12V
 Test Mode : FM 107.9MHz



Site : A/C Chamber Date : 1
 Condition : 3m 3115 Polarity: VERTICAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 24°C/67% Engineer: Johnny Wang
 EUT : Digital FM Transmitter
 Power Rating : DC 12V
 Test Mode : FM 107.9MHz

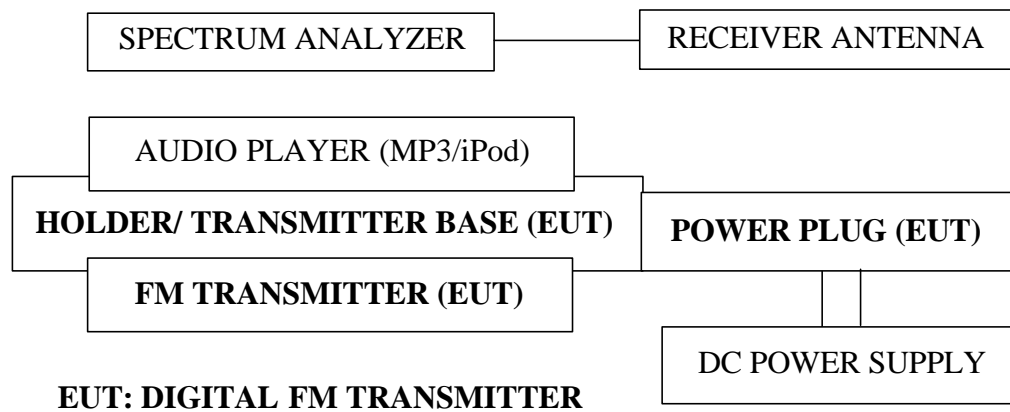
4. 26dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the Emission Bandwidth Measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Aug. 28, 03'	Aug. 27. 04'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.239)

The 26dB bandwidth of fundamental emission from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200kHz band shall lie wholly within the frequency range of 88-107.9MHz.

4.4. EUT's Configuration during Compliance Measurement

The configuration of EUT was same as section 2.4.

4.5. 26dB Bandwidth Measurement Results

PASSED. The graph of bandwidth measured is attached in next pages.

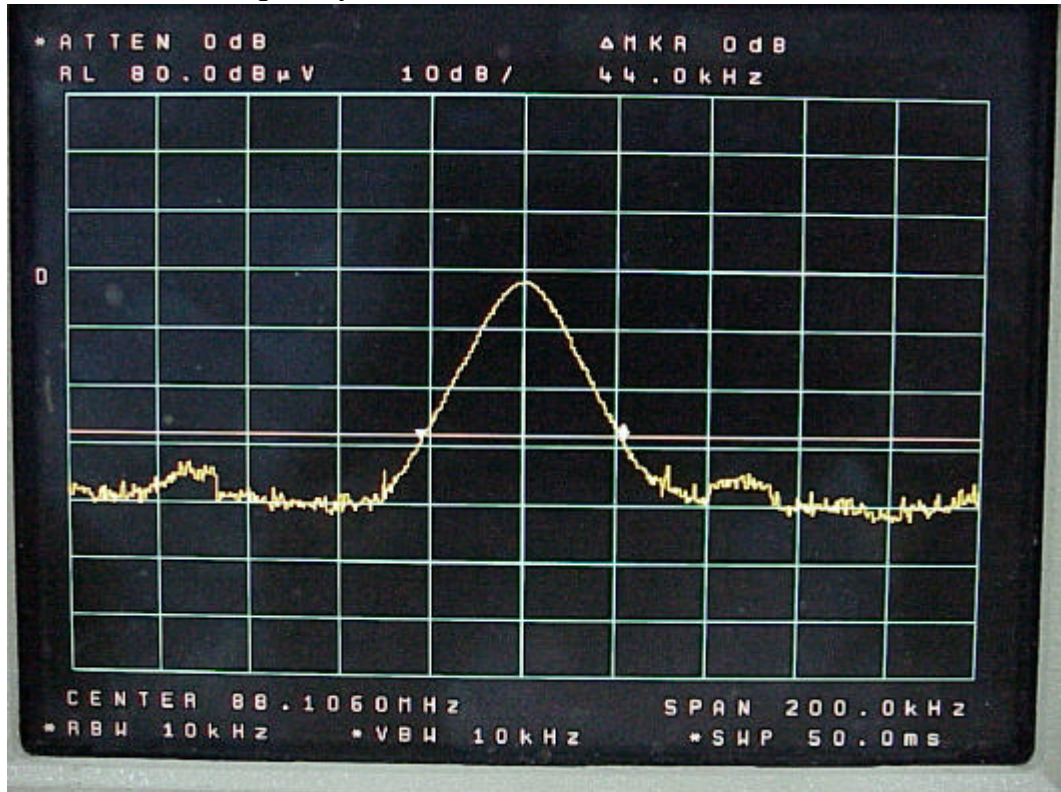
Date of Test: May 26, 2004 Temperature : 23 Humidity : 51%

Mode	Center Frequency	26dB Bandwidth	Limits
1.	88.1060MHz	44.0kHz	200kHz
2.	98.0060MHz	46.7kHz	200kHz
3.	107.9070MHz	45.3kHz	200kHz

Remark: The lowest frequency is 88.0840MHz and the highest frequency is 107.92965MHz.

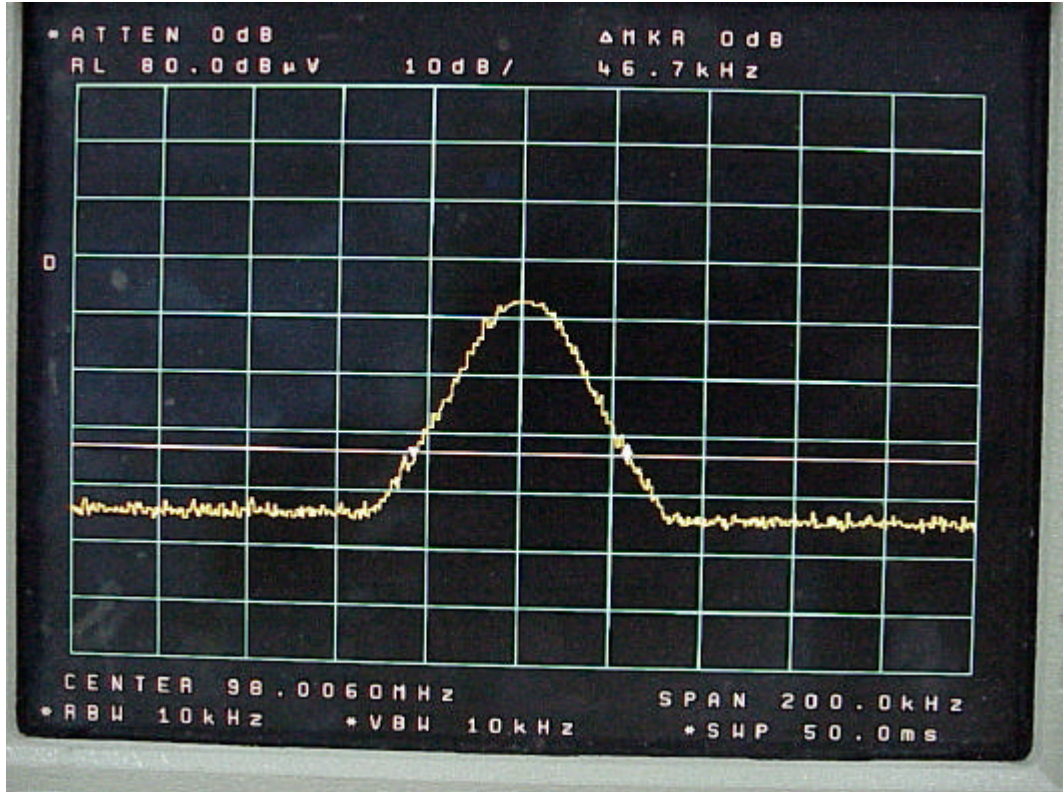
(Graph of Bandwidth Measurement)

Center Frequency 88.1060MHz, 26dB Bandwidth: 44.0kHz



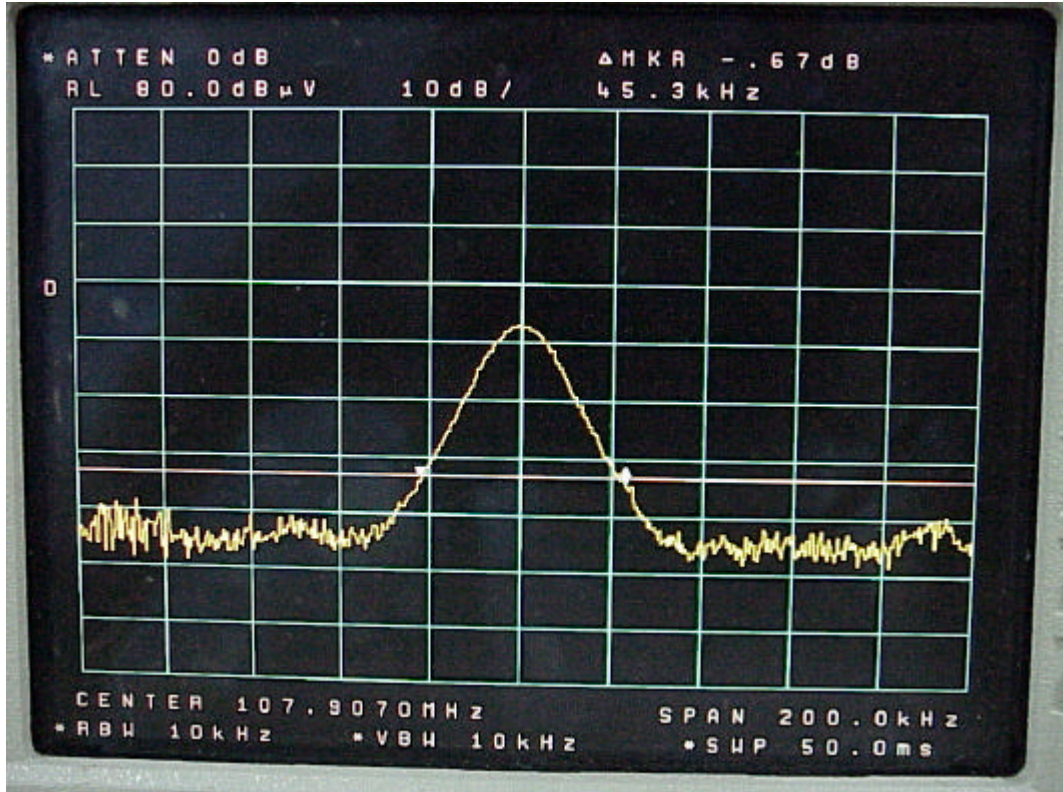
(Graph of Bandwidth Measurement)

Center Frequency 98.0060MHz, 26dB Bandwidth: 46.7kHz



(Graph of Bandwidth Measurement)

Center Frequency 107.9070MHz, 26dB Bandwidth: 45.3kHz



5. DEVIATION TO TEST SPECIFICATIONS

【NONE】