



FCC TEST REPORT

REPORT NO.: 061110FIA01

MODEL NO.: HA 141

RECEIVED: Nov. 8, 2006

TESTED: Nov. 8 ~ Nov. 29, 2006

ISSUED: Nov. 29, 2006

APPLICANT: Five-D International Ltd

ADDRESS: C 3-5, G/F, New East Ocean Center, TST East,
Kowloon, Hongkong

ISSUED BY: ADT (Shanghai) Corporation

ADDRESS: 2F, Building C, No.1618, Yishan Rd., 201103,
Shanghai, China

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ADT (Shanghai) Corporation



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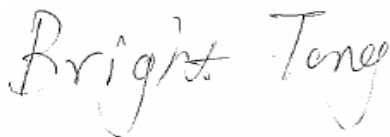


1 CERTIFICATION


PRODUCT: MP3 FM Transmitter
MODEL NO.: HA 141
APPLICANT: Five-D International Ltd
TESTED: Nov. 8 ~ Nov. 29, 2006
TEST ITEM: Engineering Sample
STANDARDS: FCC Part 15, Subpart C (Section 15.239),
ANSI C63.4-2003

We, **ADT (Shanghai) Corporation**, declare that the equipment above has been tested in our facility and found compliance with the requirement limits of applicable standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified.

**TECHNICAL
ACCEPTANCE**

: , **DATE:** NOV. 29, 2006
Bright Tong
Engineering Supervisor

APPROVED BY

: , **DATE:** NOV. 29, 2006
Wallace Pan
Director of Operations

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.207	Conducted Emission Test	N/A	Refer to 4.1.2
15.239	Radiated Emission Test	PASS	Minimum passing margin is -1.36 dB at 176.20 MHz
15.239(c)	Emission Bandwidth Test	PASS	Meet the requirements

NOTE: The information of measurement uncertainty is available upon the customer's request.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.73 dB
	200MHz ~ 1000MHz	3.74 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	MP3 FM Transmitter
MODEL NO.	HA 141
POWER SUPPLY	12Vdc
MODULATION TYPE	FM
CARRIER FREQUENCY OF EACH CHANNEL	88.1 MHz, 88.3 MHz, 88.5 MHz, 88.7 MHz, 88.9 MHz, 106.7 MHz, 106.9 MHz, 107.1 MHz, 107.3 MHz, 107.5 MHz, 107.7 MHz, 107.9 MHz
NUMBER OF CHANNELS	12
BANDWIDTH	0.2 MHz
ANTENNA TYPE	Soldered on PCB
ANTENNA JOINT TYPE	N/A
DATA CABLE	N/A
I/O PORTS	N/A
ASSOCIATED DEVICES	Ipod Nano

Note: The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Twelve channels are provided to this EUT.

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	88.1	5	88.9	9	107.3
2	88.3	6	106.7	10	107.5
3	88.5	7	106.9	11	107.7
4	88.7	8	107.1	12	107.9

- NOTE:** 1. The channel 1, 6 and 12 were tested individually.
2. Tuning controls were manually adjusted to verify maximum tuning range and no out-of-band operation violation observed.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is the MP3 FM Transmitter. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.239)

ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

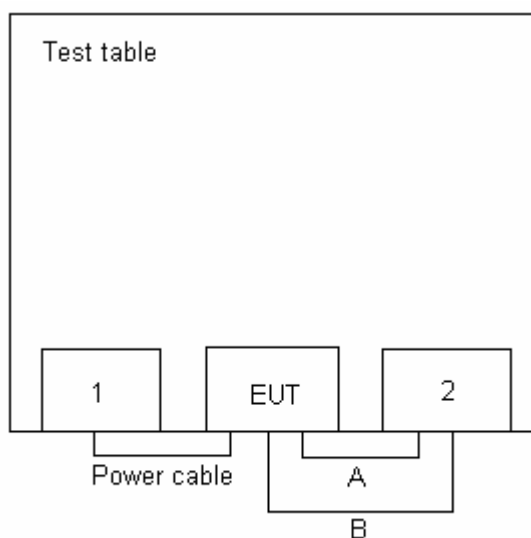
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Battery	KOBA	NF78-550	N/A	N/A
2	Ipod MP3 player	Apple	A1137	5U621XFCUPR	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
A	1.2m shielded USB cable.
B	1m shielded AV cable.

Note: 2m non-shielded power cable was used during the test which supplied by the lab.

3.5 CONFIGURATION OF SYSTEM UNDER TEST



4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

- NOTES:** (1) The lower limit shall apply at the transition frequencies.
(2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
(3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST RESULTS

Since the EUT neither has AC port nor intends to be connected to the AC power source and is powered by the battery, so the test item is not applicable.

4.2 Radiated Emission Measurement

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.239 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)	
	Peak	Average
88 to 108	67.96	47.96

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Apr. 19, 2007
BILOG Antenna SCHWARZBECK	VULB9168	E1A1001	Sept. 26, 2006
Preamplifier Agilent	8447D	E1A2001	Jan. 27, 2007
Preamplifier Agilent	8449B	E1A2002	Jan. 27, 2007
Double Ridged Broadband Horn Antenna Schwarzbeck	BBHA 9120D	E1A1002	Feb. 15, 2007
*Spectrum Analyzer Agilent	E4403B	E1S1001	Jan. 13, 2007
*Spectrum Analyzer ROHDE & SCHWARZ	FSP	E1S1002	May. 15, 2007
RF signal cable Woken	RG-402	E1CBH01	May. 30, 2007
RF signal cable Woken	RG-402	E1CBH16	May. 30, 2007
RF signal cable Woken	RG-402	E1CBH20	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL02	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL03	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL04	May. 30, 2007
Software ADT	ADT_Radiated_V7.5	N/A	N/A

- NOTE:**
1. The calibration interval of the above test instruments is 12 months.
 2. "*" = These equipment are used for the final measurement.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The Spectrum Analyzer (model: FSP) and RF signal cable (SERIAL: E1CBH05&E1CBH07) are used only for the measurement of emission frequency above 1GHz if tested.

4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

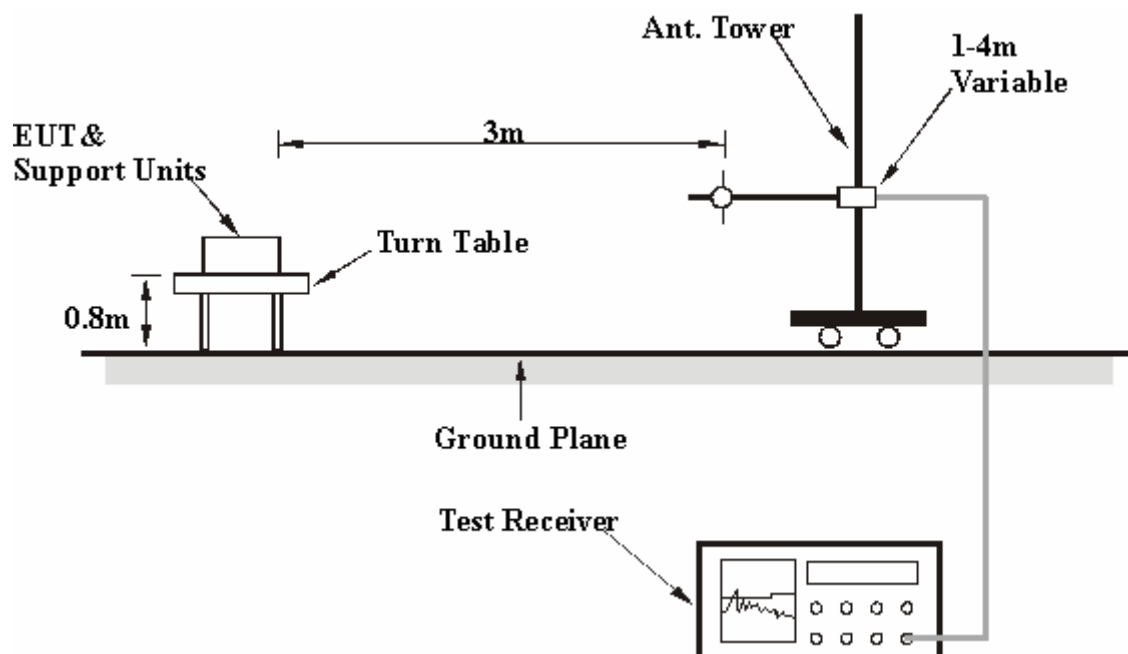
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.
4. The analyzer settings used respectively for peak and average readings are RBW = 120kHz and VBW = 300kHz.
5. Span = 1MHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item in this test report - Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITION

- Set the volume to the maximum on iPod Nano.
- Adjust the working frequencies of the EUT and make it work under the specified frequency.

Note: What the iPod Nano played is the symphony in MP3 format.

4.2.1 TEST RESULT

EUT	MP3 FM Transmitter	MODEL NO.	HA 141
CHANNEL	1	INPUT POWER	12 Vdc
FREQUENCY RANGE	30 ~ 2000 MHz	DETECTOR FUNCTION & BANDWIDTH	Peak(PK) Average (AV) Quasi-Peak
ENVIRONMENTAL CONDITIONS	21 deg. C, 76 % RH, 1005 hPa	TESTED BY: BRIGHT	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	*88.10PK	11.73	34.14	45.87	68.00	-22.13	--	--
2	*88.10AV	11.73	31.64	43.37	48.00	-4.63	--	--
3	176.20QP	15.20	26.94	42.14	43.50	-1.36	100.00	265.00
4	264.30QP	15.28	26.64	41.92	46.00	-4.08	100.00	167.00
5	352.40QP	17.54	15.44	32.98	46.00	-13.02	100.00	236.00
6	440.50QP	19.88	21.60	41.48	46.00	-4.52	100.00	48.00
7	528.60QP	21.50	20.46	41.96	46.00	-4.04	100.00	65.00
8	616.70QP	23.44	7.63	31.07	46.00	-14.93	100.00	25.00
9	704.80QP	24.68	9.59	34.27	46.00	-11.73	100.00	168.00
10	792.90QP	25.76	5.56	31.32	46.00	-14.68	100.00	226.00
11	881.00QP	26.71	6.32	33.03	46.00	-12.97	100.00	331.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	*88.10PK	11.73	32.45	44.18	68.00	-23.82	--	--
2	*88.10AV	11.73	29.44	41.17	48.00	-6.83	--	--
3	176.20QP	15.20	15.97	31.17	43.50	-12.33	100.00	114.00
4	264.30QP	15.28	21.03	36.31	46.00	-9.69	100.00	123.00
5	352.40QP	17.54	10.79	28.33	46.00	-17.67	100.00	238.00
6	440.50QP	19.88	17.97	37.85	46.00	-8.15	100.00	149.00
7	528.60QP	21.50	16.95	38.45	46.00	-7.55	100.00	67.00
8	616.70QP	23.44	6.58	30.02	46.00	-15.98	100.00	48.00
9	704.80QP	24.68	6.16	30.84	46.00	-15.16	100.00	6.00
10	792.90QP	25.76	5.44	31.20	46.00	-14.80	100.00	160.00
11	881.00QP	26.71	5.45	32.16	46.00	-13.84	100.00	330.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. "*" = Fundamental frequency.

EUT	MP3 FM Transmitter	MODEL NO.	HA 141
CHANNEL	6	INPUT POWER	12 Vdc
FREQUENCY RANGE	30 ~ 2000 MHz	DETECTOR FUNCTION & BANDWIDTH	Peak(PK) Average (AV) Quasi-Peak
ENVIRONMENTAL CONDITIONS	21 deg. C, 76 % RH, 1005 hPa	TESTED BY: BRIGHT	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	*106.70PK	13.23	34.10	47.33	68.00	-20.67	--	--
2	*106.70AV	13.23	31.47	44.70	48.00	-3.30	--	--
3	213.40QP	13.37	27.13	40.50	43.50	-3.00	100.00	76.00
4	320.10QP	17.02	10.25	27.27	46.00	-18.73	100.00	331.00
5	426.80QP	19.53	18.85	38.38	46.00	-7.62	100.00	265.00
6	533.50QP	21.62	16.67	38.29	46.00	-7.71	100.00	41.00
7	640.20QP	23.78	4.47	28.25	46.00	-17.75	100.00	10.00
8	746.90QP	25.30	4.85	30.15	46.00	-15.85	100.00	96.00
9	853.60QP	26.18	6.51	32.69	46.00	-13.31	100.00	64.00
10	960.30QP	27.77	5.07	32.84	54.00	-21.16	100.00	33.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	*106.70PK	13.23	32.87	46.10	68.00	-21.90	--	--
2	*106.70AV	13.23	29.50	42.73	48.00	-5.27	--	--
3	213.40QP	13.37	18.35	31.72	43.50	-11.78	100.00	134.00
4	320.10QP	17.02	9.22	26.24	46.00	-19.76	100.00	265.00
5	426.80QP	19.53	14.11	33.64	46.00	-12.36	100.00	345.00
6	533.50QP	21.62	13.21	34.83	46.00	-11.17	100.00	269.00
7	640.20QP	23.78	4.64	28.42	46.00	-17.58	100.00	286.00
8	746.90QP	25.30	5.73	31.03	46.00	-14.97	100.00	74.00
9	853.60QP	26.18	7.56	33.74	46.00	-12.26	100.00	32.00
10	960.30QP	27.77	5.91	33.68	54.00	-20.32	100.00	66.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. "*" = Fundamental frequency.

EUT	MP3 FM Transmitter	MODEL NO.	HA 141
CHANNEL	12	INPUT POWER	12 Vdc
FREQUENCY RANGE	30 ~ 2000 MHz	DETECTOR FUNCTION & BANDWIDTH	Peak(PK) Average (AV) Quasi-Peak
ENVIRONMENTAL CONDITIONS	21 deg. C, 76 % RH, 1005 hPa	TESTED BY: BRIGHT	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	107.90PK	13.35	34.69	48.04	68.00	-19.96	--	--
2	107.90AV	13.35	30.95	44.30	48.00	-3.70	--	--
3	215.80QP	13.54	27.00	40.54	43.50	-2.96	100.00	324.00
4	323.70QP	17.11	10.84	27.95	46.00	-18.05	100.00	168.00
5	431.60QP	19.65	17.03	36.68	46.00	-9.32	100.00	158.00
6	539.50QP	21.78	16.32	38.10	46.00	-7.90	100.00	43.00
7	647.40QP	23.86	4.26	28.12	46.00	-17.88	100.00	6.00
8	755.30QP	25.39	5.35	30.74	46.00	-15.26	100.00	72.00
9	863.20QP	26.35	5.29	31.64	46.00	-14.36	100.00	29.00
10	971.10QP	27.73	5.18	32.91	54.00	-21.09	100.00	10.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	107.90PK	13.35	31.60	44.95	68.00	-23.05	--	--
2	107.90AV	13.35	28.53	41.88	48.00	-6.12	--	--
3	215.80QP	13.54	18.32	31.86	43.50	-11.64	100.00	100.00
4	323.70QP	17.11	9.59	26.70	46.00	-19.30	100.00	300.00
5	431.60QP	19.65	13.82	33.47	46.00	-12.53	100.00	230.00
6	539.50QP	21.78	12.57	34.35	46.00	-11.65	100.00	70.00
7	647.40QP	23.86	4.72	28.58	46.00	-17.42	100.00	47.00
8	755.30QP	25.39	4.41	29.80	46.00	-16.20	100.00	68.00
9	863.20QP	26.35	5.96	32.31	46.00	-13.69	100.00	36.00
10	971.10QP	27.73	4.77	32.50	54.00	-21.50	100.00	36.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. "*" = Fundamental frequency.

4.3 EMISSION BAND MEASUREMENT

4.3.1 LIMITS OF EMISSION BAND MEASUREMENT

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 frequency ranges of 88.1 ~ 107.9 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER R&S	FSP30	E1S1002	May. 15, 2007

NOTE: The calibration interval of the above test instruments is 12 months.

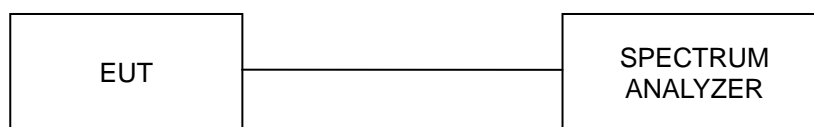
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10 kHz RBW and 30 kHz VBW. Measured the 26dBc bandwidth and plotted the graph.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

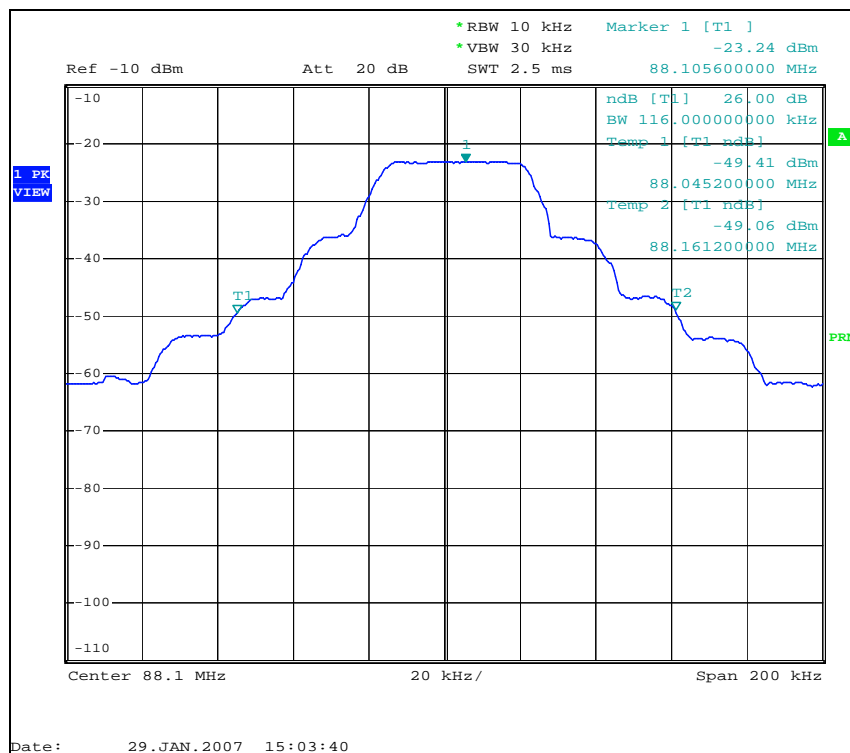
Same as 4.2.6

4.3.7 TEST RESULTS

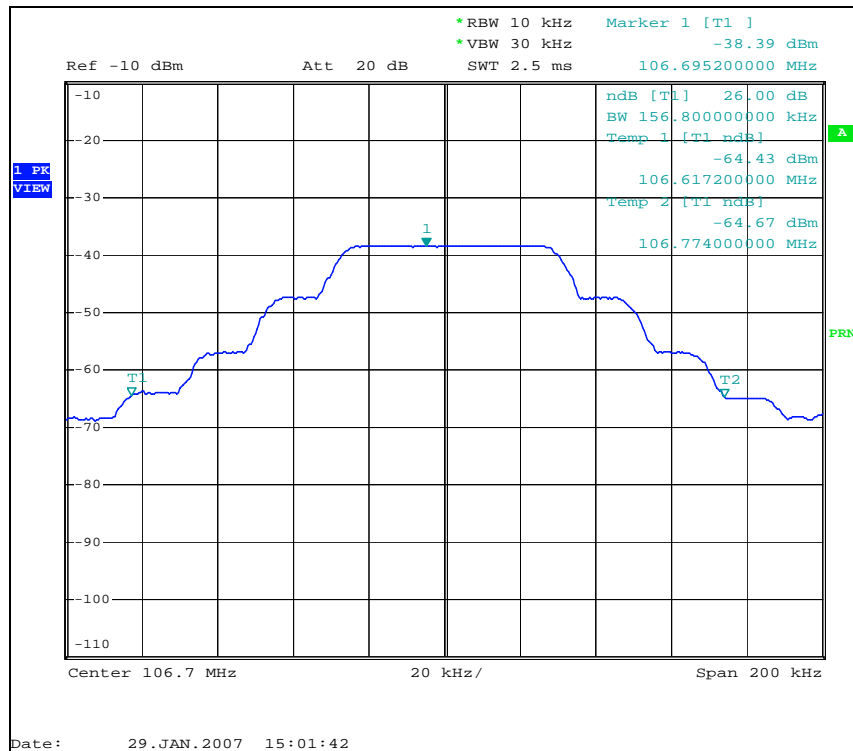
EUT	MP3 FM Transmitter	MODEL NO.	HA 141
INPUT POWER (SYSTEM)	12 Vdc	ENVIRONMENTAL CONDITIONS	22deg. C, 74%RH, 991 hPa
TEST BY	BRIGHT		

CHANNEL	CHANNEL FREQUENCY (MHz)	26 dB BANDWIDTH (kHz)	MAXIMUM LIMIT (kHz)	PASS/FAIL
1	88.1MHz	116	200	PASS
6	106.7MHz	156	200	PASS
16	107.9MHz	158.4	200	PASS

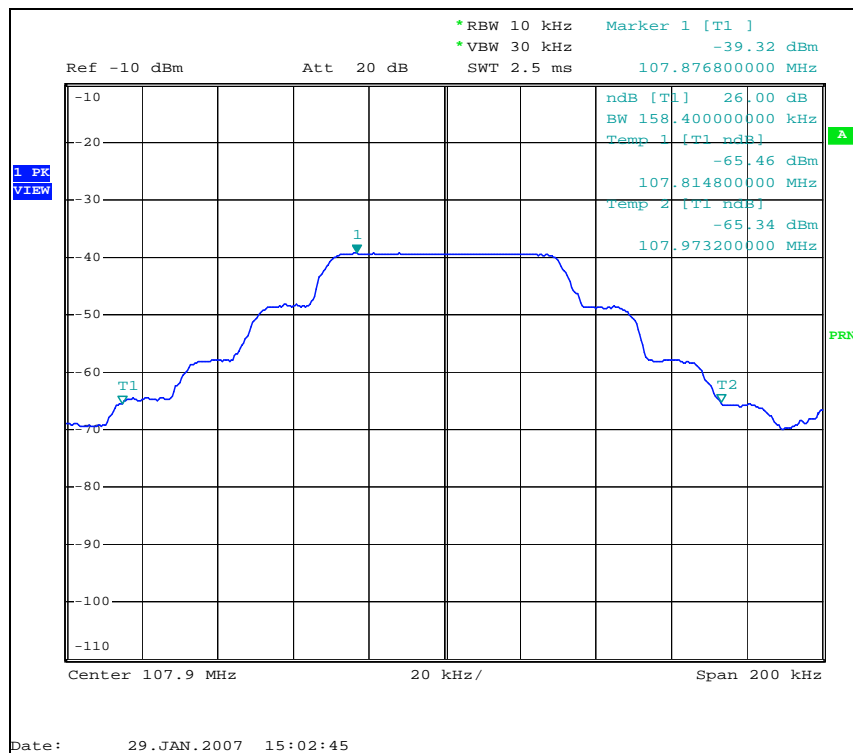
CH 1



CH 6



CH 12



5 APPENDIX - INFORMATION ON THE TESTING LABORATORY

We, ADT (Shanghai) Corp., was founded in 2003 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratory is accredited and approved by the following approval agencies according to ISO / IEC 17025 (2005).

The client should not use it to claim product endorsement by CNLS, A2LA, or any government agency.

Japan	VCCI
USA	FCC, A2LA
Norway	DNV
China	CNAS



Copies of accreditation certificates of our laboratory obtained from approval agencies can be downloaded from our web site: www.cnadt.com

If you have any comments, please feel free to contact us at the following:

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