



FCC TEST REPORT

REPORT NO.: 051210FIA01

MODEL NO.: K33365 / K33332

RECEIVED: Dec. 14, 2005

TESTED: Dec. 14 ~ Dec. 19, 2005

ISSUED: Dec. 19, 2005

APPLICANT: ACCO Brands, Inc.

ADDRESS: 333 Twin Dolphin Drive, 6th Floor, Redwood
Shores, CA 94065, United States

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: NanoX
MODEL NO.: K33365 / K33332
APPLICANT: ACCO Brands, Inc.
TESTED: Dec. 14 ~ Dec. 19, 2005
TEST ITEM: Engineering Sample
STANDARDS: FCC Part 15, Subpart C (Section 15.237),
ANSI C63.4-2003

The above equipment has been tested by **ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

TECHNICAL

ACCEPTANCE : _____ , **DATE:** DEC. 19, 2005
Responsible for EMI (Wailand Zhang)

APPROVED BY : _____ , **DATE:** DEC. 19, 2005
(Wallace Pan, Manager)

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	N/A
15.239	Radiated Emission Test	PASS	Minimum passing margin is -7.05dB at 98.100MHz
15.239(c)	Emission Bandwidth Test	PASS	N/A

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	NanoX
MODEL NO.	K33365 / K33332
POWER SUPPLY	3.3 Vdc from battery
MODULATION TYPE	FM
CARRIER FREQUENCY OF EACH CHANNEL	88.1-107.9MHz
NUMBER OF CHANNELS	100
BANDWIDTH	200kHz
ANTENNA TYPE	soldered on PCB
DATA CABLE	N/A
I/O PORTS	connector
ASSOCIATED DEVICES	N/A

NOTE: 1. The EUT is a FM transmitter for ipod.

2. The shell of the EUT has 2 kinds of color, black and white. Model K33365 is with the black color while K33332 is with the white one. Except for this difference they are absolutely the same as each other. So we just choose model K33365 to have the test and the test results are applicable to both of them.
3. 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

A hundred channels are provided to this EUT.

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	88.1	26	93.1	51	98.1	76	103.1
2	88.3	27	93.3	52	98.3	77	103.3
3	88.5	28	93.5	53	98.5	78	103.5
4	88.7	29	93.7	54	98.7	79	103.7
5	88.9	30	93.9	55	98.9	80	103.9
6	89.1	31	94.1	56	99.1	81	104.1
7	89.3	32	94.3	57	99.3	82	104.3
8	89.5	33	94.5	58	99.5	83	104.5
9	89.7	34	94.7	59	99.7	84	104.7
10	89.9	35	94.9	60	99.9	85	104.9
11	90.1	36	95.1	61	100.1	86	105.1
12	90.3	37	95.3	62	100.3	87	105.3
13	90.5	38	95.5	63	100.5	88	105.5
14	90.7	39	95.7	64	100.7	89	105.7
15	90.9	40	95.9	65	100.9	90	105.9
16	91.1	41	96.1	66	101.1	91	106.1
17	91.3	42	96.3	67	101.3	92	106.3
18	91.5	43	96.5	68	101.5	93	106.5
19	91.7	44	96.7	69	101.7	94	106.7
20	91.9	45	96.9	70	101.9	95	106.9
21	92.1	46	97.1	71	102.1	96	107.1
22	92.3	47	97.3	72	102.3	97	107.3
23	92.5	48	97.5	73	102.5	98	107.5
24	92.7	49	97.7	74	102.7	99	107.7
25	92.9	50	97.9	75	102.9	100	107.9

NOTE: 1. The channel 1, 51 and 100 were tested individually.
2. There is one test mode for radiated emission measurement.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is the FM transmitter for ipod. 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 C63.4-2001

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

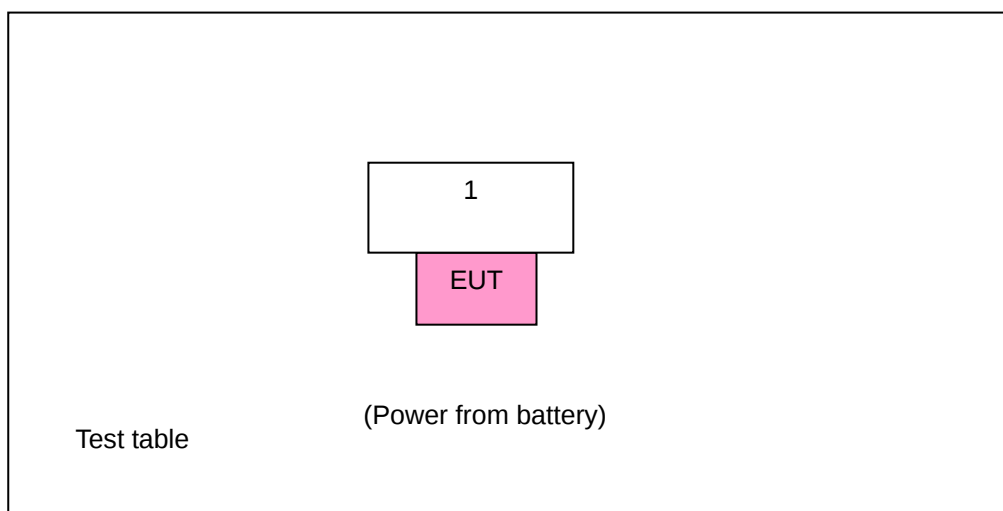
3.4 DESCRIPTION OF SUPPORT UNITS

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	MP3 Player	Apple	A1137	7J546QQUTJT	FCC doc approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
A	NA

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 does not have AC port, 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(kHz)	300
0.490-1.705	24000/F(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, 2006
BILOG Antenna SCHWARZBECK	VULB9168	E1A1001	Sep. 26, 2006
Preamplifier Agilent	8447D	E1A2001	Jan. 27, 2006
Preamplifier Agilent	8449B	E1A2002	Jan. 27, 2006
Double Ridged Broadband Horn Antenna Schwarzbeck	BBHA 9120D	E1A1002	Feb.15, 2006
*Spectrum Analyzer Agilent	E4403B	E1S1001	Jan. 13, 2006
*Spectrum Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	May.15,2006
RF signal cable Woken	RG-402	E1CBH01	May. 30, 2006
RF signal cable Woken	RG-402	E1CBH02	May. 30, 2006
RF signal cable Woken	RG-402	E1CBH03	May. 30, 2006
RF signal cable Woken	RG-412	E1CBL02	May. 30, 2006
RF signal cable Woken	RG-412	E1CBL03	May. 30, 2006
RF signal cable Woken	RG-412	E1CBL04	May. 30, 2006
Software ADT	ADT_Radiated_V7.5	NA	NA

- 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: FSP30) and RF signal cable (SERIAL: E1CBH02&E1CBH03) are used only for the measurement of emission frequency above 2GHz 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 10 meter open area test site. 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.

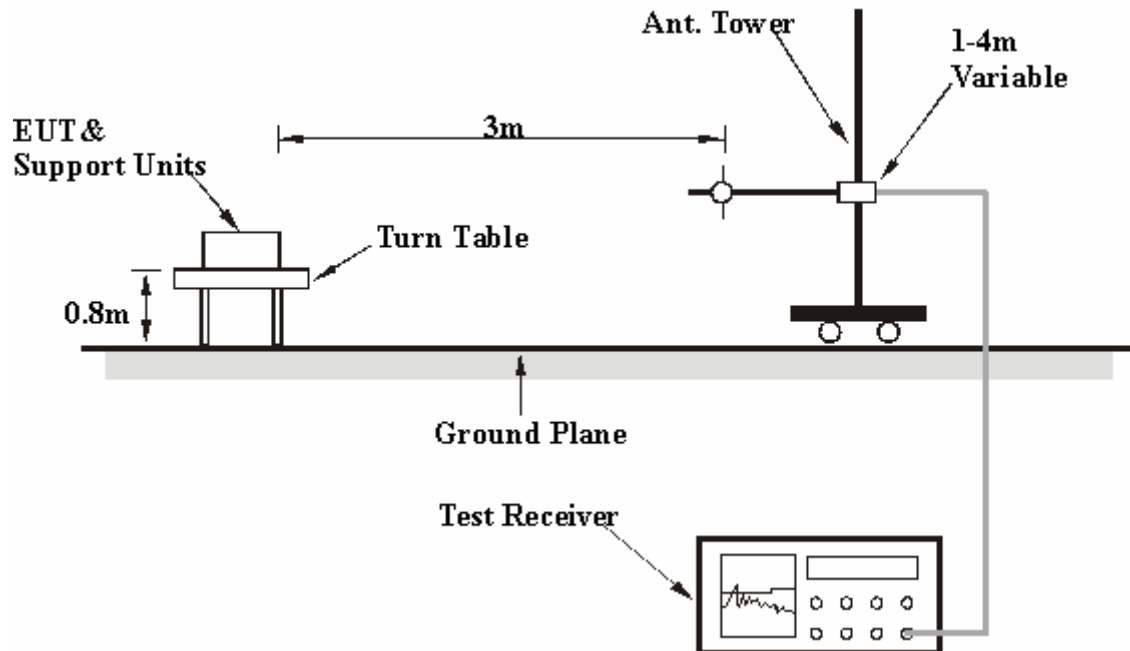
NOTE:

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.

4.2.4 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

1. Connect the EUT with the auxiliaries and adjust it to work at the selected channels: 88.1MHz, 98.1MHz and 107.9MHz.
2. The test signal generator iPod was fixed to play symphony and making the maximum volume to the EUT which was supposed to cover the most frequencies that were 300-15000Hz.

4.2.7 TEST RESULT

Below 1GHz Worst-Case Data

EUT	NanoX	MODEL	K33365
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	FM	INPUT POWER (SYSTEM)	3.3 Vdc from battery
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 1013hPa	DETECTOR FUNCTION	Quasi-Peak / Peak / Average
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*	88.100	11.73	16.87	28.60PK	43.50	-14.90	291.00	189.00
1*	88.100	11.73	2.67	14.40AV	43.50	-29.10	291.00	189.00
2	151.250	16.98	-7.96	9.03QP	43.50	-34.47	181.00	233.00
3	287.050	16.10	-8.12	7.98QP	46.00	-38.02	99.00	159.00
4	432.550	19.67	-7.87	11.81QP	46.00	-34.19	170.00	83.00
5	614.420	23.40	-8.16	15.24QP	46.00	-30.76	267.00	147.00
6	772.050	25.59	-8.39	17.20QP	46.00	-28.80	274.00	214.00

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*	88.100	11.73	9.73	21.46PK	43.50	-22.04	99.00	143.00
1*	88.100	11.73	-3.35	8.38AV	43.50	-35.12	199.00	97.00
2	160.950	16.98	-8.05	8.93QP	43.50	-34.57	304.00	343.00
3	289.480	16.20	-8.16	8.04QP	46.00	-37.96	213.00	268.00
4	427.700	19.55	-7.84	11.71QP	46.00	-34.29	100.00	156.00
5	592.600	22.98	-8.17	14.81QP	46.00	-31.19	100.00	84.00
6	774.480	25.61	-8.33	17.28QP	46.00	-28.72	100.00	9.00

- NOTE:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
 2. Correction Factor (dB) = Antenna Factor (dB) + 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	NanoX	MODEL	K33365
CHANNEL	Channel 2	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	FM	INPUT POWER (SYSTEM)	3.3 Vdc from battery
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 1013hPa	DETECTOR FUNCTION	Quasi-Peak / Peak / Average
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*	98.100	12.41	24.04	36.45PK	43.50	-7.05	291.00	189.00
1*	98.100	12.41	9.80	22.21AV	43.50	-21.29	291.00	189.00
2	350.100	17.47	-7.45	10.02QP	46.00	-35.98	240.00	157.00
3	473.770	20.49	-7.35	13.14QP	46.00	-32.86	149.00	83.00
4	590.170	22.93	-7.64	15.29QP	46.00	-30.71	100.00	21.00
5	682.330	24.30	-8.12	16.17QP	46.00	-29.83	186.00	104.00
6	779.330	25.65	-8.05	17.61QP	46.00	-28.39	268.00	172.00

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*	98.100	12.41	11.53	23.94PK	43.50	-19.56	99.00	231.00
1*	98.100	12.41	-0.51	11.90AV	43.50	-31.60	99.00	4.00
2	158.530	17.06	-7.79	9.26QP	43.50	-34.24	259.00	114.00
3	299.180	16.51	-7.66	8.85QP	46.00	-37.15	142.00	210.00
4	454.370	20.19	-7.47	12.72QP	46.00	-33.28	100.00	2.00
5	575.620	22.63	-7.80	14.84QP	46.00	-31.16	100.00	186.00
6	701.730	24.62	-7.68	16.94QP	46.00	-29.06	100.00	262.00

- NOTE:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
 2. Correction Factor (dB) = Antenna Factor (dB) + 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	NanoX	MODEL	K33365
CHANNEL	Channel 3	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	FM	INPUT POWER (SYSTEM)	3.3 Vdc from battery
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 1013hPa	DETECTOR FUNCTION	Quasi-Peak / Peak / Average
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*	107.900	13.35	18.45	31.80PK	43.50	-11.70	291.00	189.00
1*	107.900	13.35	4.55	17.90AV	43.50	-25.60	291.00	189.00
2	170.650	16.01	-7.82	8.19QP	43.50	-35.31	304.00	307.00
3	318.570	16.99	-7.95	9.04QP	46.00	-36.96	243.00	329.00
4	466.500	20.38	-7.88	12.50QP	46.00	-33.50	162.00	263.00
5	621.700	23.54	-8.36	15.18QP	46.00	-30.82	99.00	182.00
6	781.750	25.67	-8.42	17.25QP	46.00	-28.75	128.00	158.00

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*	107.900	13.35	8.45	21.80PK	43.50	-21.70	166.00	148.00
1*	107.900	13.35	-4.17	9.18AV	43.50	-34.32	166.00	317.00
2	304.020	16.64	-7.93	8.70QP	46.00	-37.30	232.00	163.00
3	444.680	19.98	-8.05	11.93QP	46.00	-34.07	151.00	230.00
4	575.620	22.63	-8.27	14.37QP	46.00	-31.63	133.00	355.00
5	704.150	24.66	-8.36	16.30QP	46.00	-29.70	246.00	333.00
6	815.700	26.16	-8.94	17.22QP	46.00	-28.78	350.00	245.00

- NOTE:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
 2. Correction Factor (dB) = Antenna Factor (dB) + 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 range of 88.1 to 107.9MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER R&S	FSP	E1S1002	May. 15, 2006

NOTE:

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

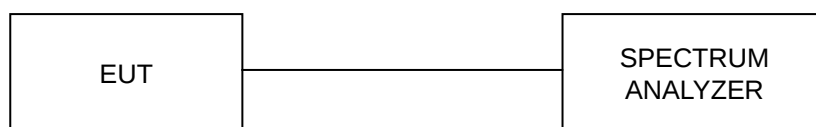
4.3.3 TEST PROCEDURE

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 20dBc 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

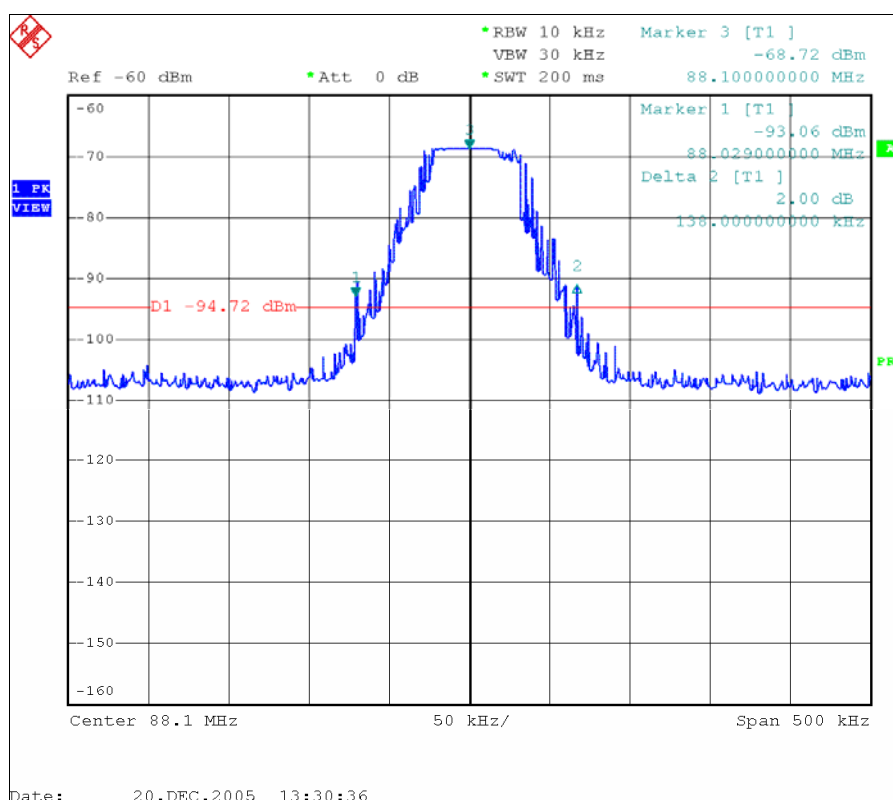
1. Connect the EUT with the auxiliaries and adjust it to work at the selected channels: 88.1MHz, 98.1MHz and 107.9MHz.
2. The test signal generator iPod was fixed to play symphony and making the maximum volume to the EUT which was supposed to cover the most frequencies that were 300-15000Hz.
3. The channel BW was measured at an amplitude level reduced from the reference level by the 26 dB.

4.3.7 TEST RESULTS

EUT	NanoX	MODEL	K33365
INPUT POWER (SYSTEM)	3.3Vdc from battery	ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH, 1010 hPa
TEST BY	BRIGHT		

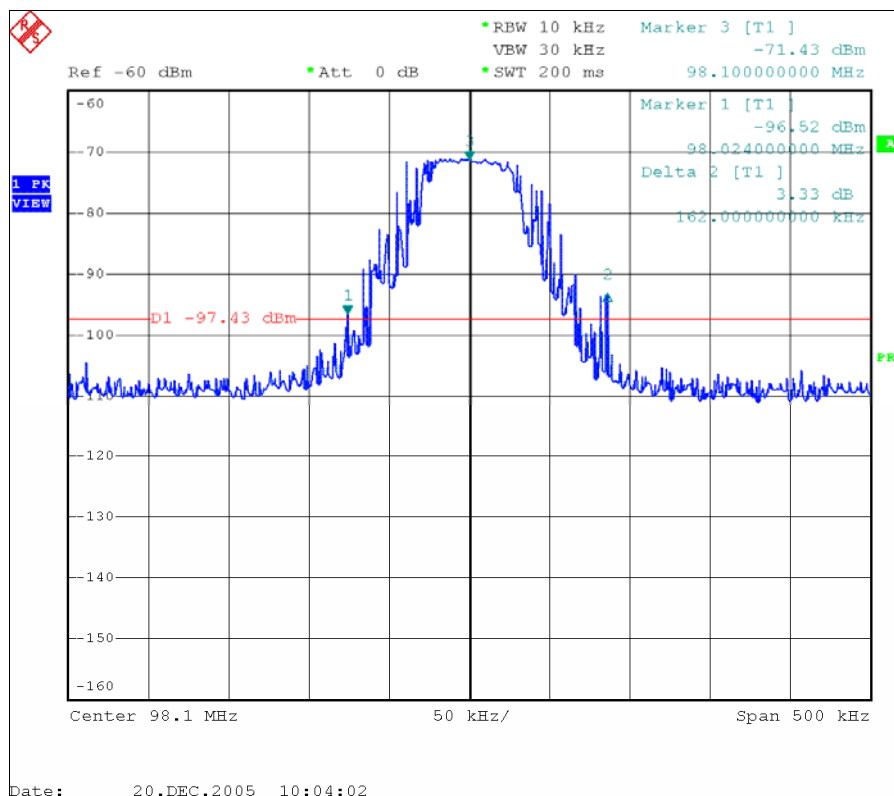
CHANNEL	CHANNEL FREQUENCY (MHz)	26 dB BANDWIDTH (kHz)	MAXIMUM LIMIT (kHz)	PASS/FAIL
1	88.1MHz	138.00	200	PASS
51	98.1MHz	162.00	200	PASS
100	107.9MHz	187.00	200	PASS

CH1



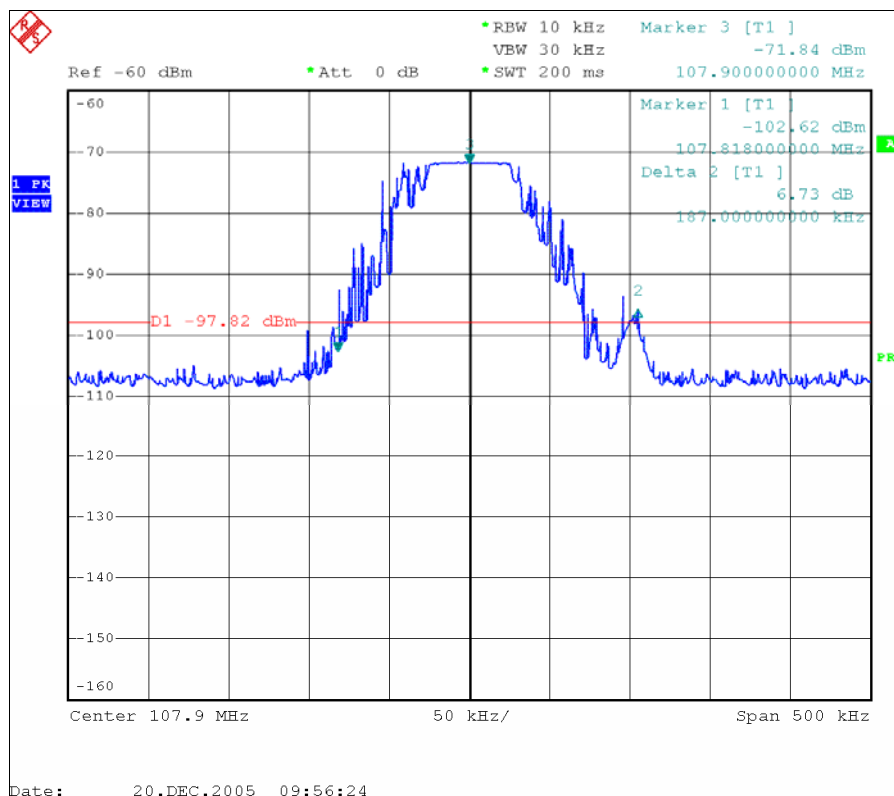
Note: The plot shows the 26dB bandwidth equals 138.00 kHz.

CH51



Note: The plot shows the 26dB bandwidth equals 162.00 kHz.

CH100



Note: The plot shows the 26dB bandwidth equals 187.00 kHz.

5 INFORMATION ON THE TESTING LABORATORIES

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

JAPAN	VCCI
USA	FCC, NVLAP, A2LA
Norway	DNV

Copies of accreditation certificates of our laboratories 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:

ADT (Shanghai) Corporation

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Email: adtsh@vip.163.com

Web Site: www.cnadt.com

The address and road map of all our labs can be found in our web site also.

APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.