Test Report

Product Name ： Wireless Headphone USB Dongle
Model No. ： PC-2400, TE2106E, UH7100
FCC ID. ： LLP-NTJ2106

Applicant ： Nasaco Electronics (H.K) Ltd.
Address ： 11/F., Unit 6, Eastern Centre, 1065 King’s Road, Quarry Bay, Hong Kong

Date of Receipt ： 2007/08/03
Issued Date ： 2007/08/21
Report No. ： 078116R-RFUSP06V01

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : 2007/08/21
Report No. : 078116R-RFUSP06V01

QuieTek

Product Name	:	Wireless Headphone USB Dongle
Applicant	:	Nasaco Electronics (H.K) Ltd.
Address	:	11/F., Unit 6, Eastern Centre, 1065 King's Road, Quarry Bay, Hong Kong
Manufacturer	:	Nasaco Electronics (H.K) Ltd.
Model No.	:	PC-2400, TE2106E, UH7100
FCC ID.	:	LLP-NTJ2106
Rated Voltage	:	AC 120 V / 60 Hz
EUT Voltage	:	DC 5V (Power by PC)
Trade Name	:	XFones, Nasaco, xdream
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2006
Test Result	:	Complied

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By : Carol Tsai
(Carol Tsai / Engineering Adm. Specialist)

Reviewed By : Sheena Huang
(Sheena Huang / Assistant Engineer)

Approved By : Roy Wang
(Roy Wang / Manager)

TABLE OF CONTENTS

1. General Information

1.1. EUT Description

Product Name	Wireless Headphone USB Dongle
Trade Name	XFones, Nasaco, xdream
Model No.	PC-2400, TE2106E, UH7100
Frequency Range	2400~2483.5MHz
Channel Number	8
Type of Modulation	GFSK
Antenna Gain	0dBi
Channel Control	Manual
Antenna Type	Microchip

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2405.376 MHz	002	2415.616 MHz	003	2425.856 MHz	004	2436.096 MHz
005	2446.336 MHz	006	2456.576 MHz	007	2466.816 MHz	008	2477.056MHz

Note:

1. This device is a Wireless Headphone USB Dongle included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. The different of the each model is shown as below:

Model Number	Trade Name
PC-2400	XFones
TE2106E	Nasaco
UH7100	xdream

3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
4. Regards to the frequency band operation; the highest rate that was included the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
5. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 078116R-ITUSP01V02 under Declaration of Conformity.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
TX	Mode 1: Transmit

Emission	Mode 1	
Performed Item	Test Performed	Deviation
Peak Power Output	Yes	No
Conducted Emission	Yes	No
Radiated Emission	Yes	No
Band Edge	Yes	No
Occupied Bandwidth	Yes	No
Power Density	Yes	No

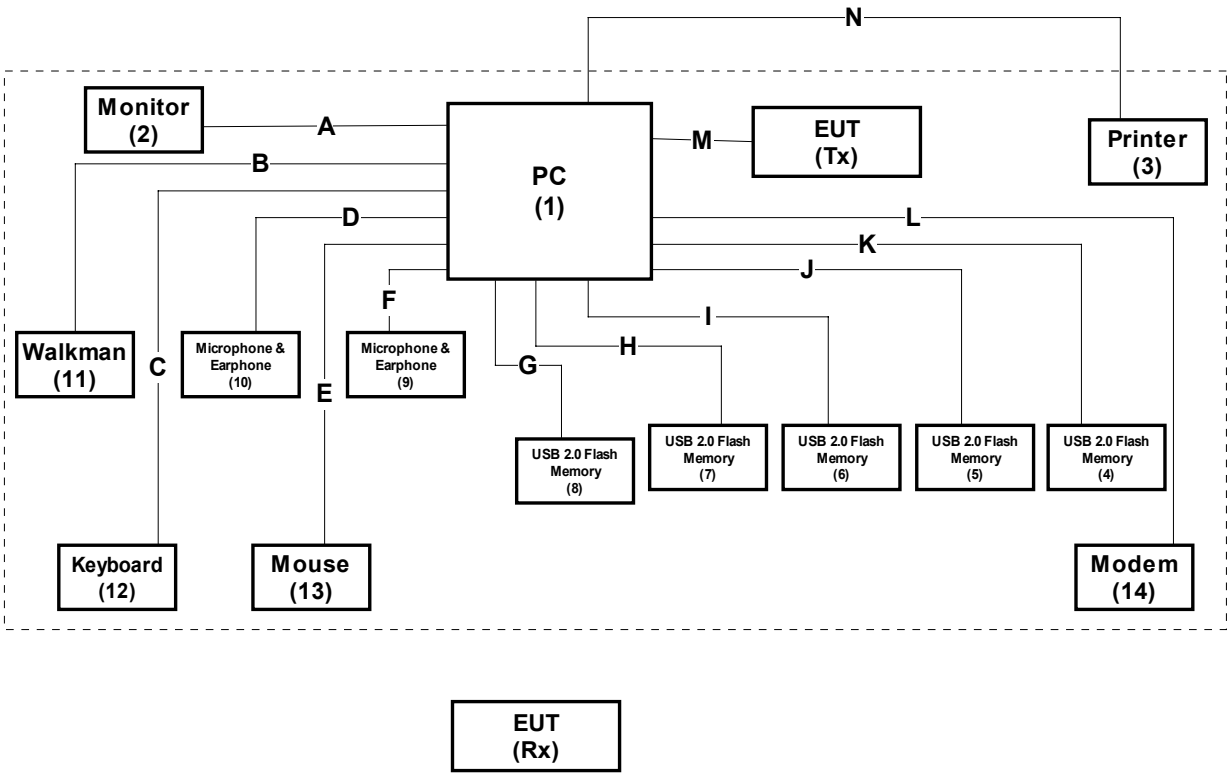
1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	PC	COMPAQ	PD1100	SG30801026	DoC	Non-Shielded, 1.8m
2	Monitor	CHI MEI	A170E1-09	3UC120955SA1250	DoC	Non-Shielded, 1.8m
3	Printer	HP	C2642A	MY75L1D2XN	DoC	Non-Shielded, 0.7m
4	USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--
5	USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--
6	USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--
7	USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--
8	USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--
9	Microphone & Earphone	Ronald	MOE060	N/A	DoC	--
10	Microphone & Earphone	TOKTO	SX-MI	N/A	DoC	--
11	Walkman	AIWA	US-J202	HSA20201	DoC	--
12	Keyboard	Logitech	Y-SM46	SY525U18099	DoC	--
13	Mouse	Logitech	M-SBF83	HCA52200184	DoC	--
14	Modem	ACEEX	DM-1414	980033034	DoC	Non-Shielded, 1.6m

1.5. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	VGA Cable	Shielded, 1.8m, two ferrite cores bonded.
B	Walkman Cable	Non-Shielded, 1.6m
C	Keyboard Cable	Shielded, 1.8m
D	Microphone & Earphone Cable	Non-Shielded, 1.2m
E	Mouse Cable	Shielded, 1.8m
F	Microphone & Earphone Cable	Shielded, 1.2m
G	USB 2.0 Flash Memory Cable	Shielded, 1.4m
H	USB 2.0 Flash Memory Cable	Shielded, 1.4m
I	USB 2.0 Flash Memory Cable	Shielded, 1.4m
J	USB 2.0 Flash Memory Cable	Shielded, 1.4m
K	USB 2.0 Flash Memory Cable	Shielded, 1.4m
L	Modem Cable	Shielded, 1.5m
M	USB Cable	Shielded, 1.6m
N	Printer Cable	Shielded, 1.2m

1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5.
2	Turn on the power of all equipment.
3	Boot the PC from Hard Disk.
4	Data will communicate between personal computer through EUT.
5	The personal computer’s monitor will show the transmitting and receiving characteristics when the communication is success.
6	Repeat the above procedure (4) to (5).

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	Peak Power Output	15 - 35	25.2
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	Radiated Emission	15 - 35	24
Humidity (%RH)		25 - 75	59
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	Occupied Bandwidth	15 - 35	25.2
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	Power Density	15 - 35	25.2
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520

Accredited by CNLA
Accreditation Number: 1313
Effective through: September 27, 2007

1313

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2007

NVLAP Lab Code : 200347-0

Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

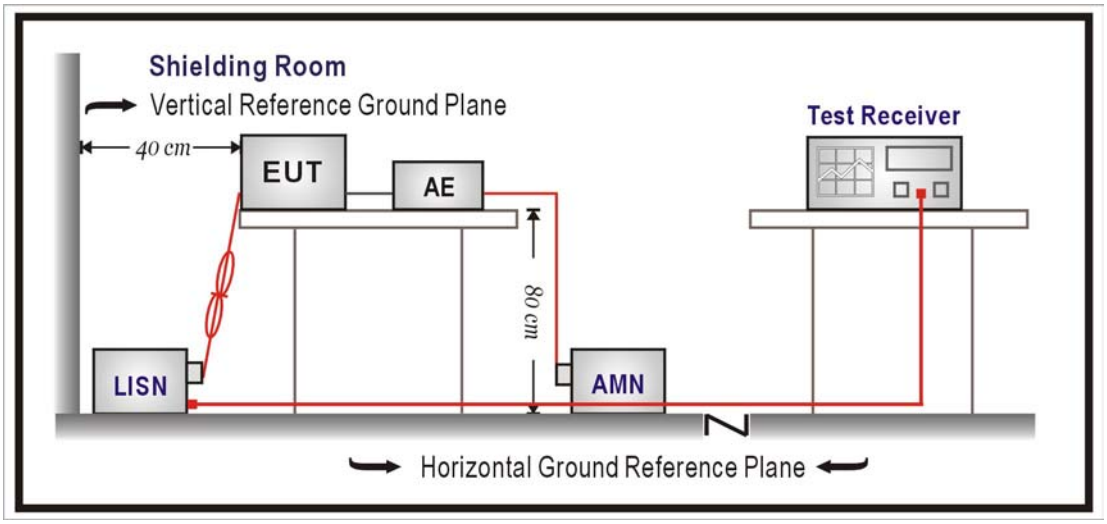
The following test equipment are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
4-Wire ISN	R & S	ENY 41	837032/001	2007/04/15
Double 2-Wire ISN	R & S	ENY 22	835354/008	2007/04/15
LISN	R&S	ESH3-Z5	836679/022	2007/06/17
LISN	R & S	ESH3-Z5	836679/013	2006/12/30
Pulse Limiter	R & S	ESH3-Z2	100411	2006/11/16
Test Receiver	R & S	ESCS 30	100149	2006/11/15

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Specification

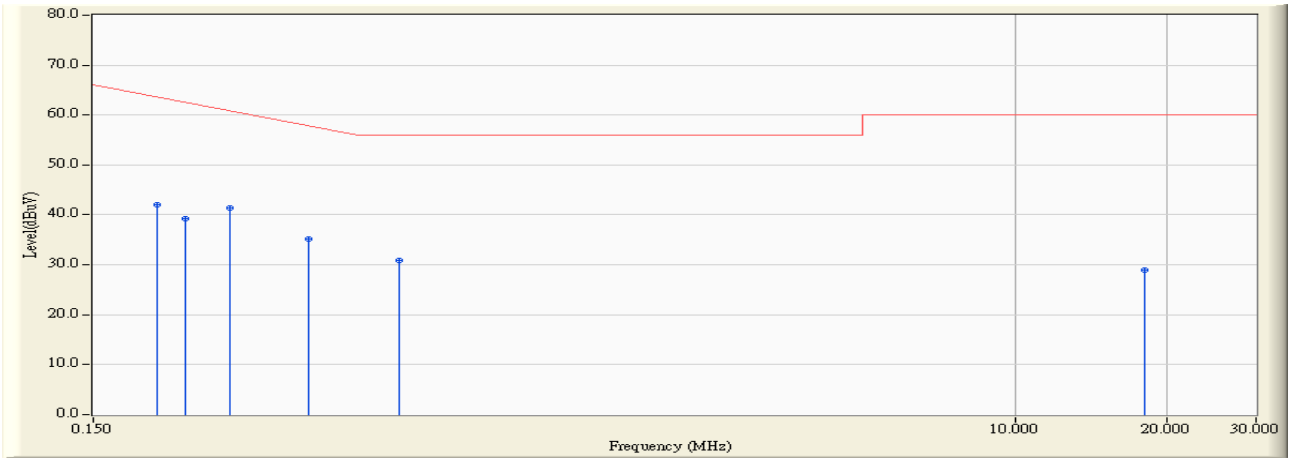
According to FCC Part 15 Subpart C Paragraph 15.207: 2006

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : ShieldingRoom3	**Time : 2007/08/13 - 10:23**
Limit : CISPR_B_00M_QP	**Margin : 0**
EUT : Wireless Headphone USB Dongle	**Probe : SR3_LISN(16A) - Line1**
Power : DC 5V (Power by PC)	**Note : TX**

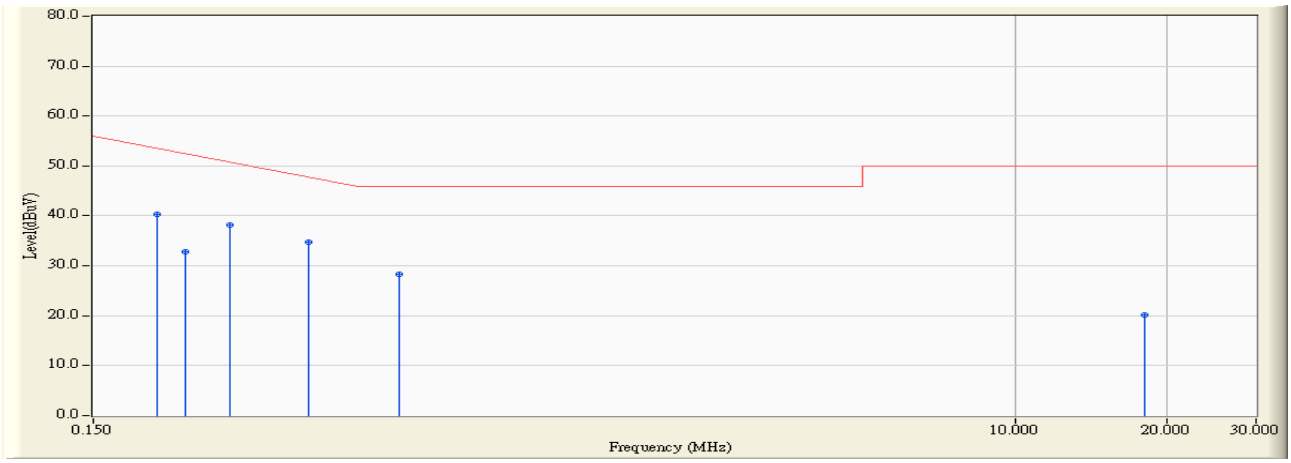


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.154	41.940	42.094	-22.449	64.543	QUASIPEAK
2		0.228	0.160	39.050	39.210	-24.561	63.771	QUASIPEAK
3	*	0.279	0.170	41.190	41.360	-20.954	62.314	QUASIPEAK
4		0.400	0.200	35.020	35.220	-23.637	58.857	QUASIPEAK
5		0.603	0.210	30.630	30.840	-25.160	56.000	QUASIPEAK
6		18.111	0.950	27.970	28.920	-31.080	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : ShieldingRoom3	**Time : 2007/08/13 - 10:23**
Limit : CISPR_B_00M_AV	**Margin : 0**
EUT : Wireless Headphone USB Dongle	**Probe : SR3_LISN(16A) - Line1**
Power : DC 5V (Power by PC)	**Note : TX**

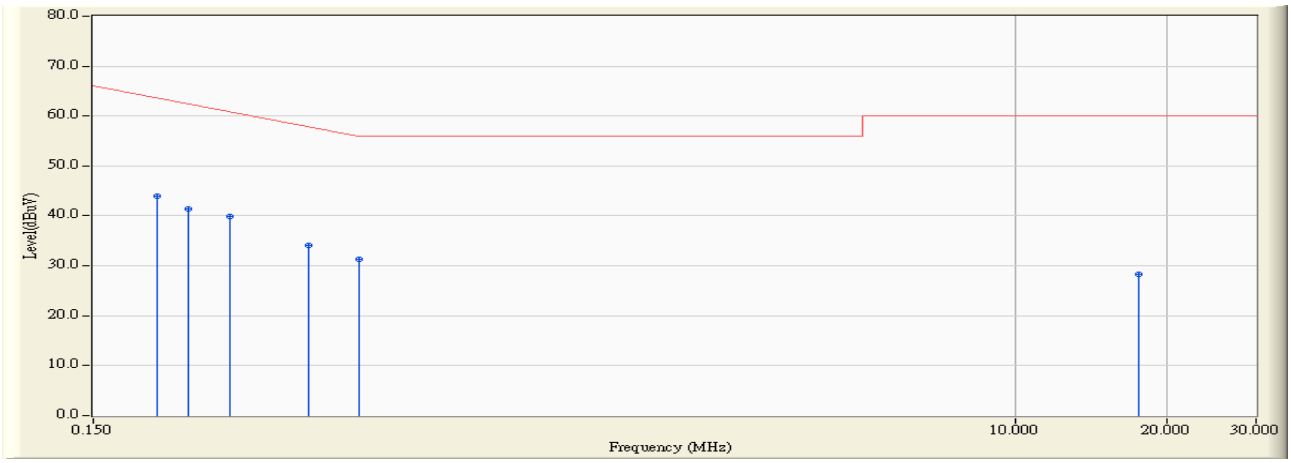


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.154	40.090	40.244	-14.299	54.543	AVERAGE
2		0.228	0.160	32.600	32.760	-21.011	53.771	AVERAGE
3		0.279	0.170	37.910	38.080	-14.234	52.314	AVERAGE
4	*	0.400	0.200	34.510	34.710	-14.147	48.857	AVERAGE
5		0.603	0.210	28.090	28.300	-17.700	46.000	AVERAGE
6		18.111	0.950	19.140	20.090	-29.910	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : ShieldingRoom3	**Time : 2007/08/13 - 10:34**
Limit : CISPR_B_00M_QP	**Margin : 0**
EUT : Wireless Headphone USB Dongle	**Probe : SR3_LISN(16A) - Line2**
Power : DC 5V (Power by PC)	**Note : TX**

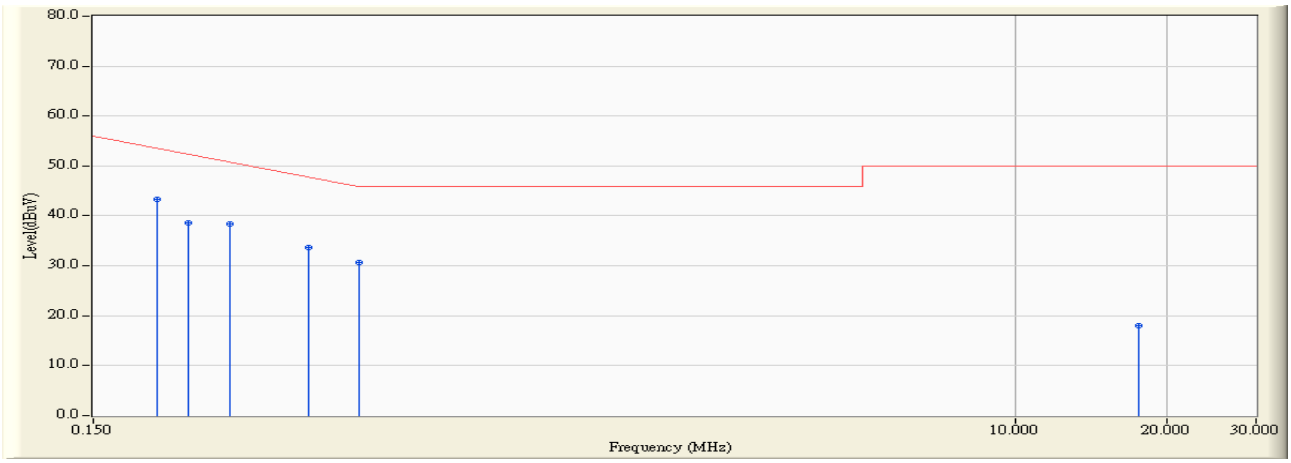


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.201	0.154	43.900	44.054	-20.489	64.543	QUASIPEAK
2		0.232	0.160	41.310	41.470	-22.187	63.657	QUASIPEAK
3		0.279	0.170	39.820	39.990	-22.324	62.314	QUASIPEAK
4		0.400	0.200	33.950	34.150	-24.707	58.857	QUASIPEAK
5		0.502	0.210	31.120	31.330	-24.670	56.000	QUASIPEAK
6		17.580	0.890	27.380	28.270	-31.730	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : ShieldingRoom3	**Time : 2007/08/13 - 10:34**
Limit : CISPR_B_00M_AV	**Margin : 0**
EUT : Wireless Headphone USB Dongle	**Probe : SR3_LISN(16A) - Line2**
Power : DC 5V (Power by PC)	**Note : TX**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.201	0.154	43.190	43.344	-11.199	54.543	AVERAGE
2		0.232	0.160	38.420	38.580	-15.077	53.657	AVERAGE
3		0.279	0.170	38.130	38.300	-14.014	52.314	AVERAGE
4		0.400	0.200	33.550	33.750	-15.107	48.857	AVERAGE
5		0.502	0.210	30.510	30.720	-15.280	46.000	AVERAGE
6		17.580	0.890	17.220	18.110	-31.890	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Peak Power Output

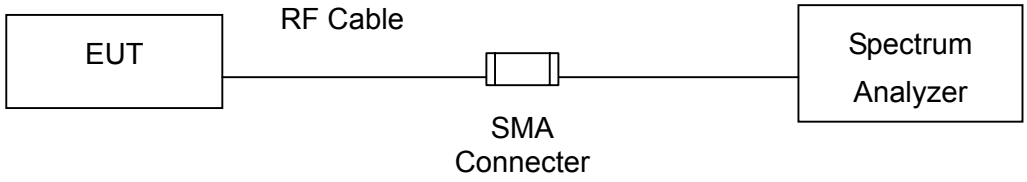
3.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R&S	FSP/ 100005	Oct., 2006
2	No.1 OATS			Sep., 2006

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005

3.5. Uncertainty

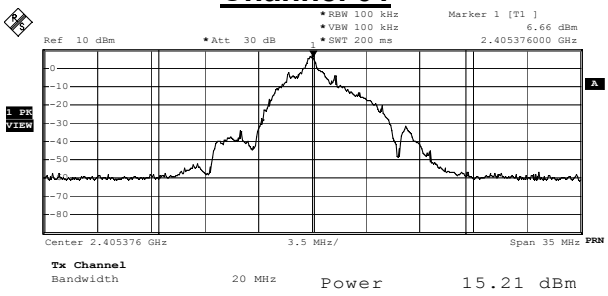
The measurement uncertainty is defined as ± 1.27 dB.

3.6. Test Result

Product	Wireless Headphone USB Dongle		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2007/08/07	Test Site	No.1 OATS

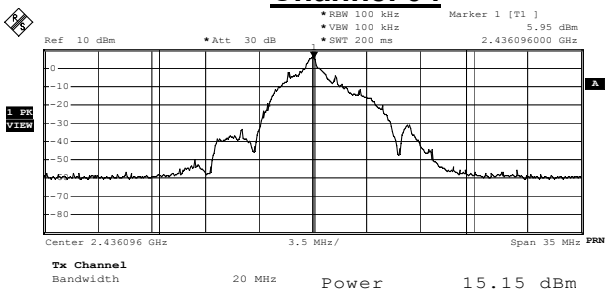
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2405.376	15.21	1Watt= 30 dBm	Pass
04	2436.096	15.15	1Watt= 30 dBm	Pass
08	2477.056	15.05	1Watt= 30 dBm	Pass

Channel 01



Date: 8.AUG.2007 14:57:50

Channel 04



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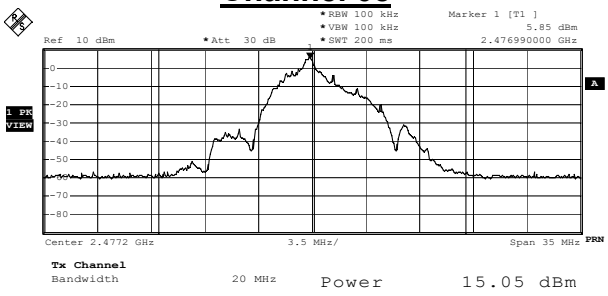
Channel 08



Date: 8.AUG.2007 14:51:10

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the test:

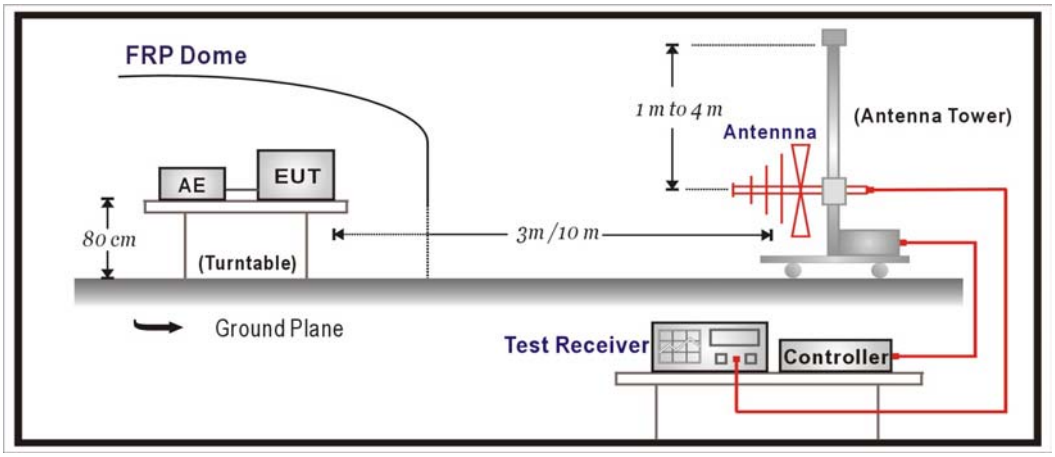
Radiated Emission / Site1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2895	2006/09/03
Horn Antenna	Electro Metrics	EM-6961	103325	2007/03/15
Pre-Amplifier	HP	8449B	3008A01123	2006/11/15
Pre-Amplifier	Quietek	AP-025C	N/A	N/A
Spectrum Analyzer	R & S	FSP40	100005	2006/08/25
Spectrum Analyzer	Advantest	R3162	120300649	2006/11/24
Test Receiver	R & S	ESCS 30	825442/017	2007/02/13

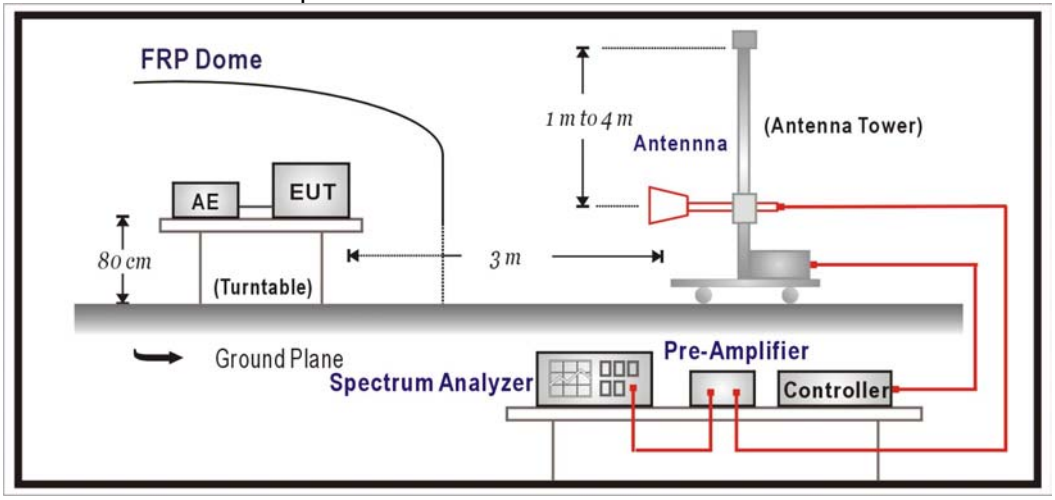
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. “N/A” Ca1.Date is used to Pre-test, not final test.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
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.

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.
On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

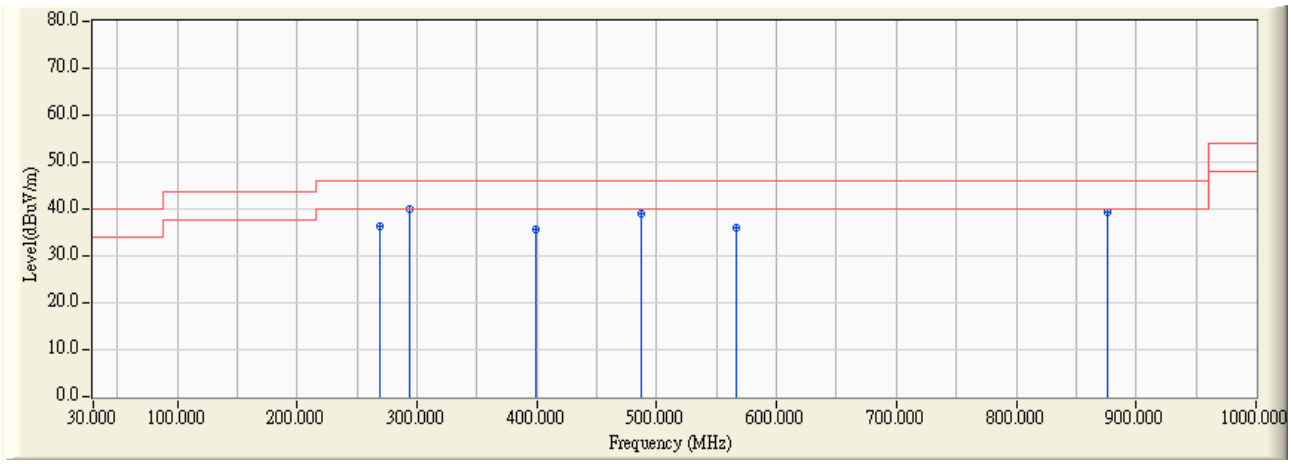
According to FCC Part 15 Subpart C Paragraph 15.247: 2006

4.6. Uncertainty

The measurement uncertainty
30MHz～1GHz as ±3.19dB
1GHz～26.5Ghz as ±3.9dB

4.7. Test Result

Site : Site 1	**Time : 2007/08/08 - 23:04**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_30-1G(200605) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : Tx**

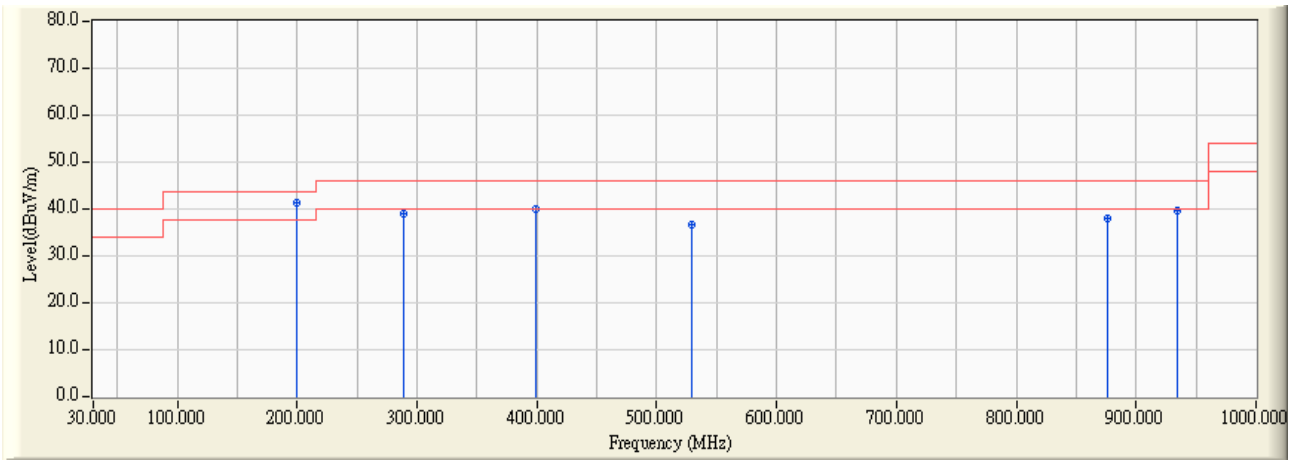


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		269.098	-7.085	43.415	36.329	-9.671	46.000	PEAK
2	*	294.369	-4.560	44.511	39.951	-6.049	46.000	PEAK
3		399.339	1.121	34.605	35.726	-10.274	46.000	PEAK
4		486.814	-0.944	39.952	39.008	-6.992	46.000	PEAK
5		566.513	4.251	31.586	35.837	-10.163	46.000	PEAK
6		875.591	5.426	33.763	39.189	-6.811	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : Site 1	**Time : 2007/08/08 - 23:00**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_30-1G(200605) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : Tx**

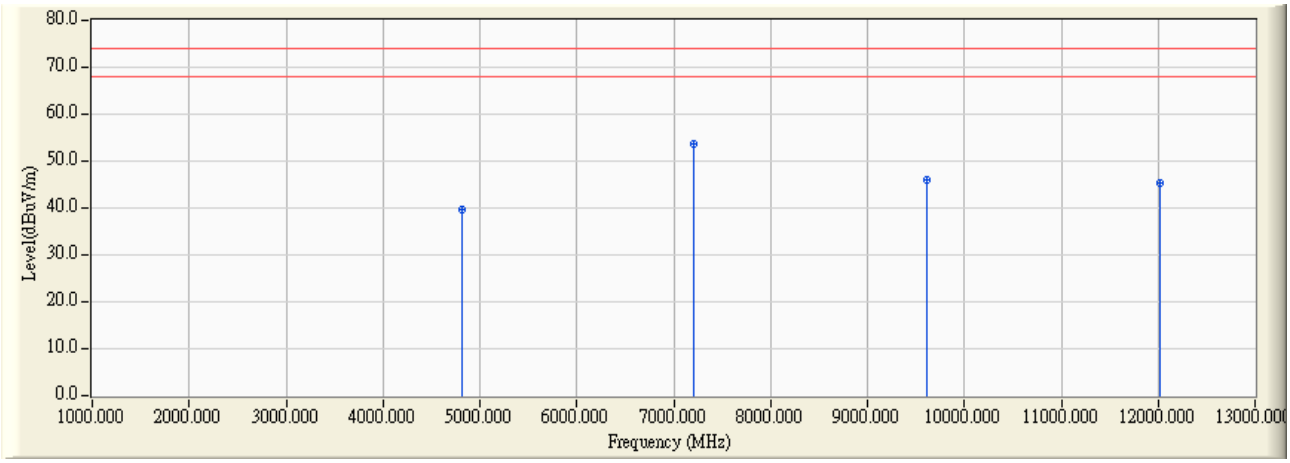


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	199.118	-3.417	44.636	41.218	-2.282	43.500	PEAK
2		288.537	-8.840	47.917	39.078	-6.922	46.000	PEAK
3		399.339	-0.493	40.327	39.835	-6.165	46.000	PEAK
4		529.579	-3.112	39.701	36.589	-9.411	46.000	PEAK
5		875.591	4.196	33.745	37.941	-8.059	46.000	PEAK
6		933.908	7.251	32.569	39.820	-6.180	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : Site 1	**Time : 2007/08/07 - 20:40**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : Tx-CH1**

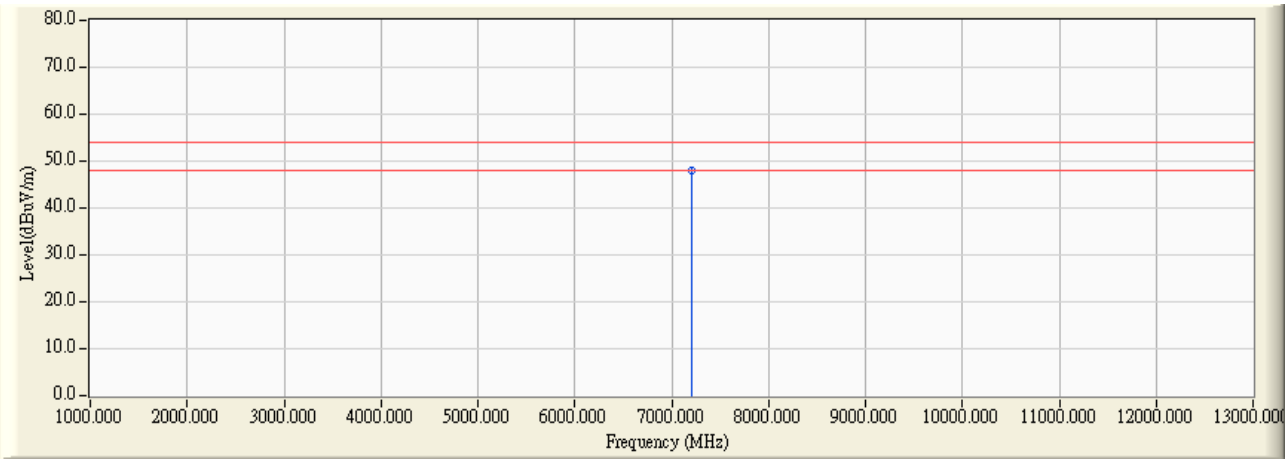


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4809.470	3.630	36.100	39.730	-34.270	74.000	54.00	PEAK
2	*	7214.540	8.701	45.130	53.831	-20.169	74.000	54.00	PEAK
3		9619.820	12.690	33.380	46.070	-27.930	74.000	54.00	PEAK
4		12024.270	12.026	33.340	45.366	-28.634	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/07 - 20:42**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : Tx-CH1**

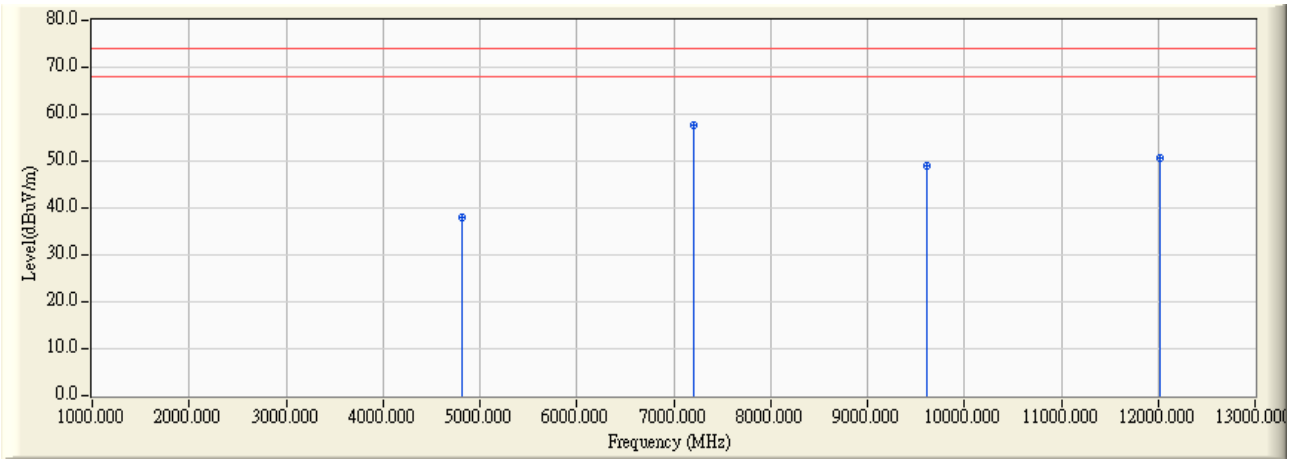


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	7214.490	8.701	39.440	48.141	-5.859	74.000	54.00	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/07 - 21:18**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : Tx-CH1**

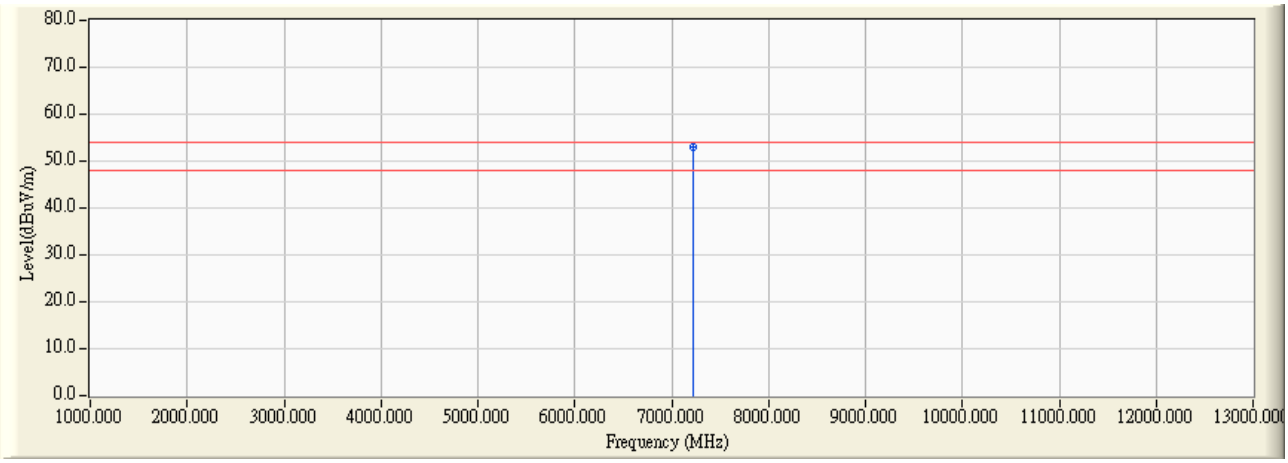


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4811.478	1.870	36.230	38.101	-35.899	74.000	54.00	PEAK
2	*	7214.254	8.674	48.940	57.614	-16.386	74.000	54.00	PEAK
3		9619.750	14.690	34.240	48.930	-25.070	74.000	54.00	PEAK
4		12024.475	16.755	34.030	50.785	-23.215	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/07 - 22:07**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : Tx-CH1**

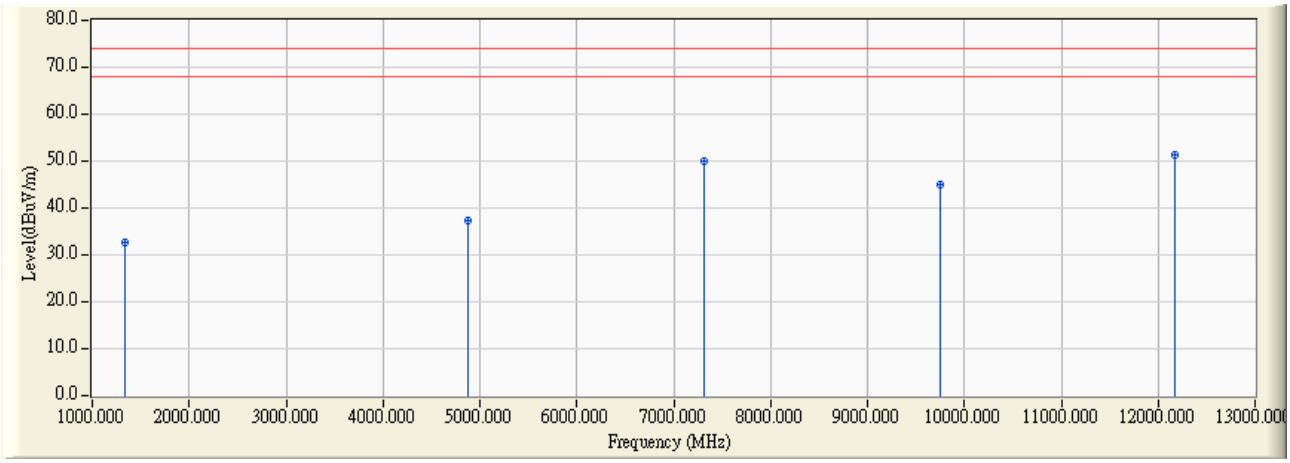


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	7214.570	8.675	44.310	52.985	-1.015	74.000	54.00	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/07 - 22:27**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : Tx-CH4**

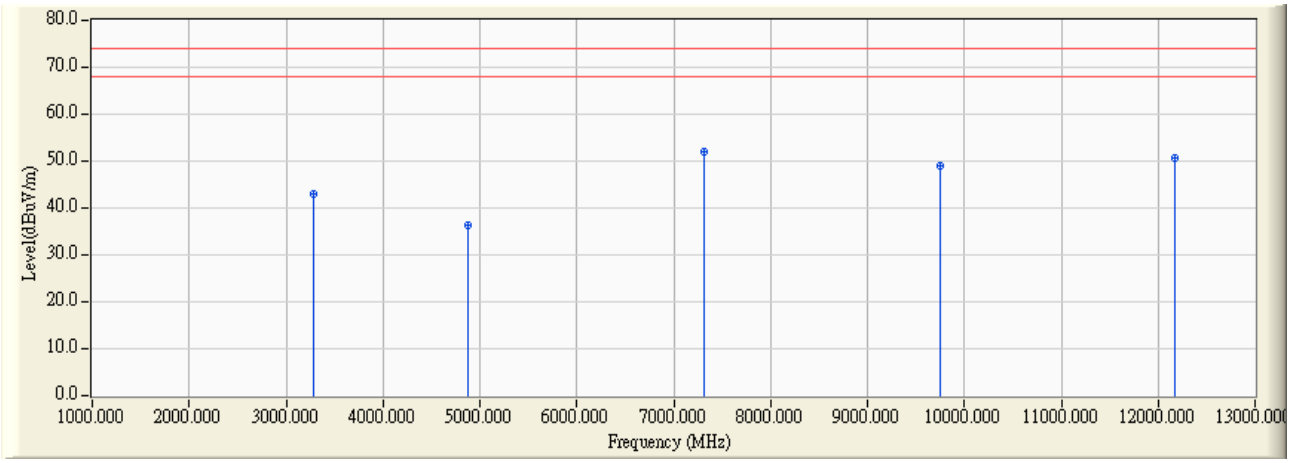


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		1336.673	-8.718	41.440	32.722	-41.278	74.000	54.00	PEAK
2		4872.192	4.076	33.380	37.455	-36.545	74.000	54.00	PEAK
3		7306.559	8.839	41.270	50.109	-23.891	74.000	54.00	PEAK
4		9744.384	13.114	31.820	44.934	-29.066	74.000	54.00	PEAK
5	*	12178.801	18.975	32.230	51.205	-22.795	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/07 - 22:49**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : Tx-CH4**

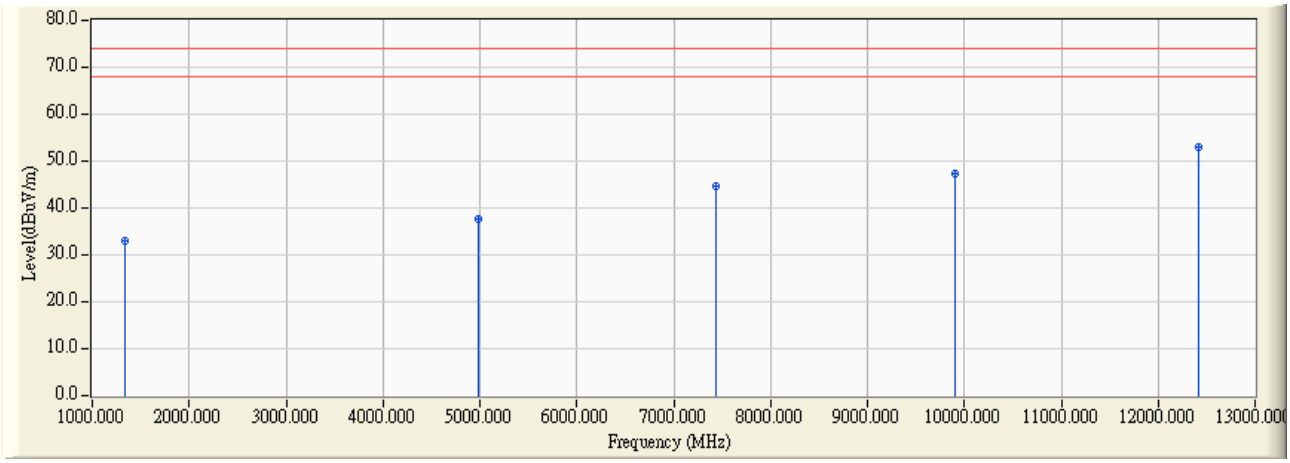


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		3284.569	-0.260	43.370	43.109	-30.891	74.000	54.00	PEAK
2		4872.212	2.419	33.860	36.279	-37.721	74.000	54.00	PEAK
3	*	7306.559	8.839	43.020	51.859	-22.141	74.000	54.00	PEAK
4		9744.368	15.114	33.990	49.104	-24.896	74.000	54.00	PEAK
5		12178.659	19.263	31.400	50.663	-23.337	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/07 - 23:02**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : Tx-CH8**

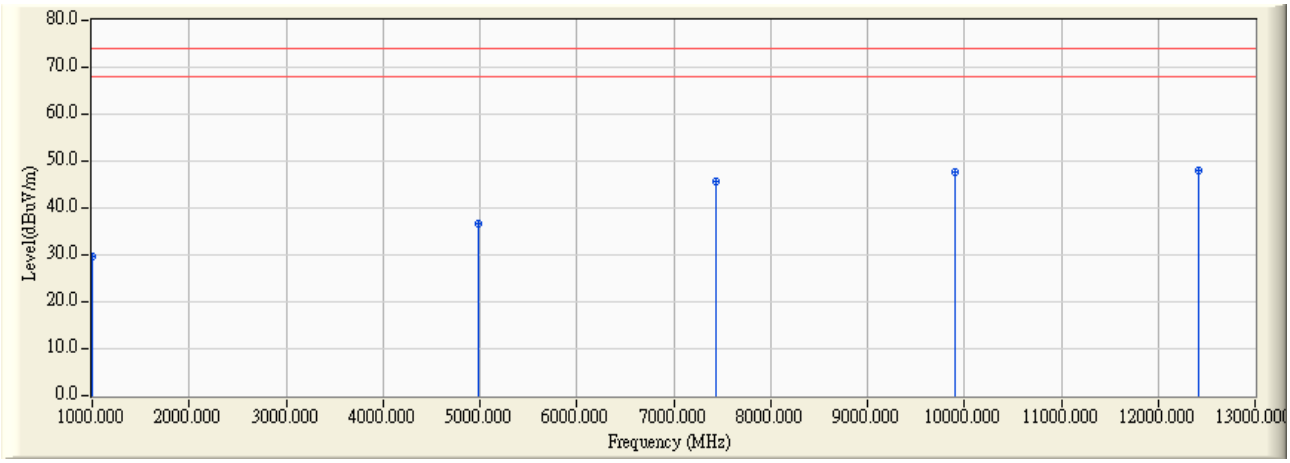


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		1336.673	-8.718	41.800	33.082	-40.918	74.000	54.00	PEAK
2		4978.448	4.399	33.400	37.799	-36.201	74.000	54.00	PEAK
3		7431.600	9.007	35.540	44.547	-29.453	74.000	54.00	PEAK
4		9908.800	14.428	32.920	47.348	-26.652	74.000	54.00	PEAK
5	*	12410.048	21.289	31.660	52.949	-21.051	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/07 - 23:09**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : Tx-CH8**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		1000.000	-13.470	43.220	29.750	-44.250	74.000	54.00	PEAK
2		4978.447	2.950	33.660	36.611	-37.389	74.000	54.00	PEAK
3		7431.560	9.007	36.650	45.657	-28.343	74.000	54.00	PEAK
4		9908.780	15.340	32.300	47.640	-26.360	74.000	54.00	PEAK
5	*	12410.025	16.107	31.770	47.877	-26.123	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

5. Band Edge

5.1. Test Equipment

The following test equipment are used during the test:

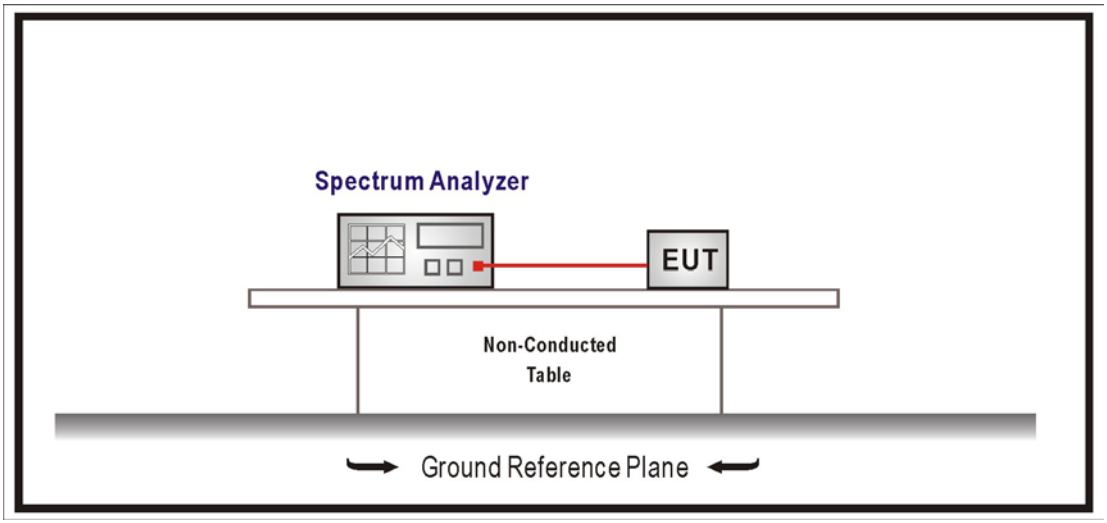
RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2006
2	No.1 OATS				Sep., 2006
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2006
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2006
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2006
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
6	X	Horn Antenna	Electro Metrics	EM-6961 / 103325	Sep., 2006
7	No.1 OATS				Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

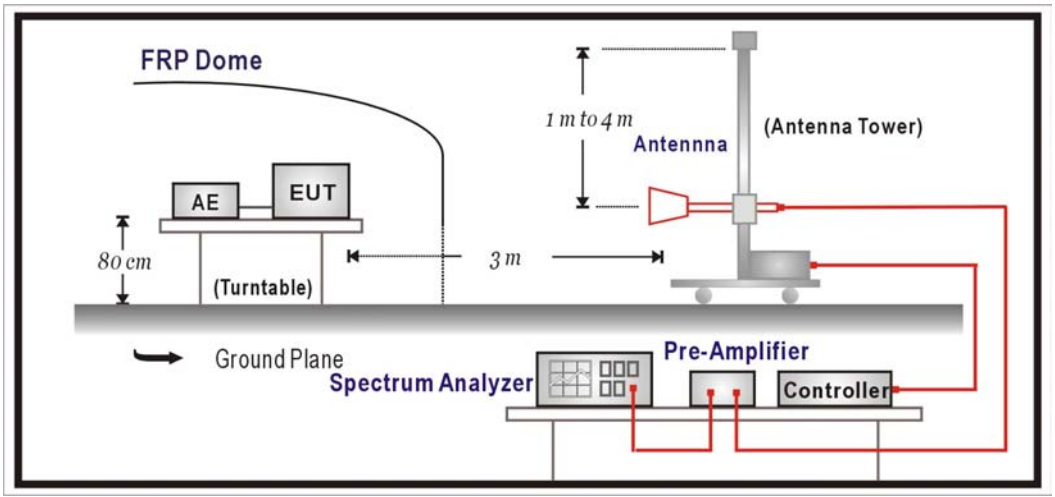
2. Mark “X” test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

5.6. Uncertainty

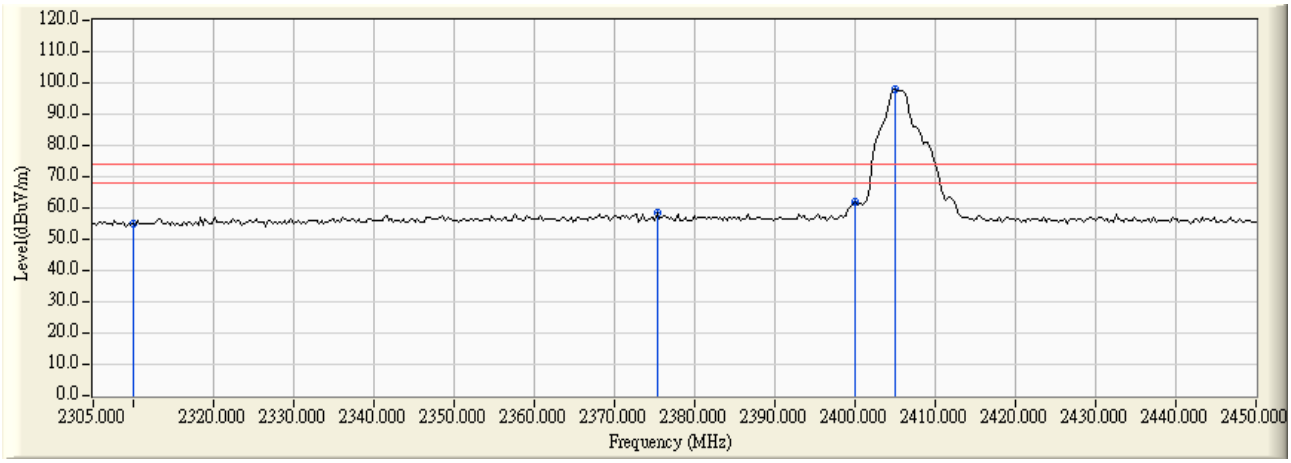
The measurement uncertainty

Conducted is defined as ± 1.27dB

Radiated is defined as ± 3.9dB

5.7. Test Result

Site : Site 1	**Time : 2007/08/10 - 11:44**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : CH1**

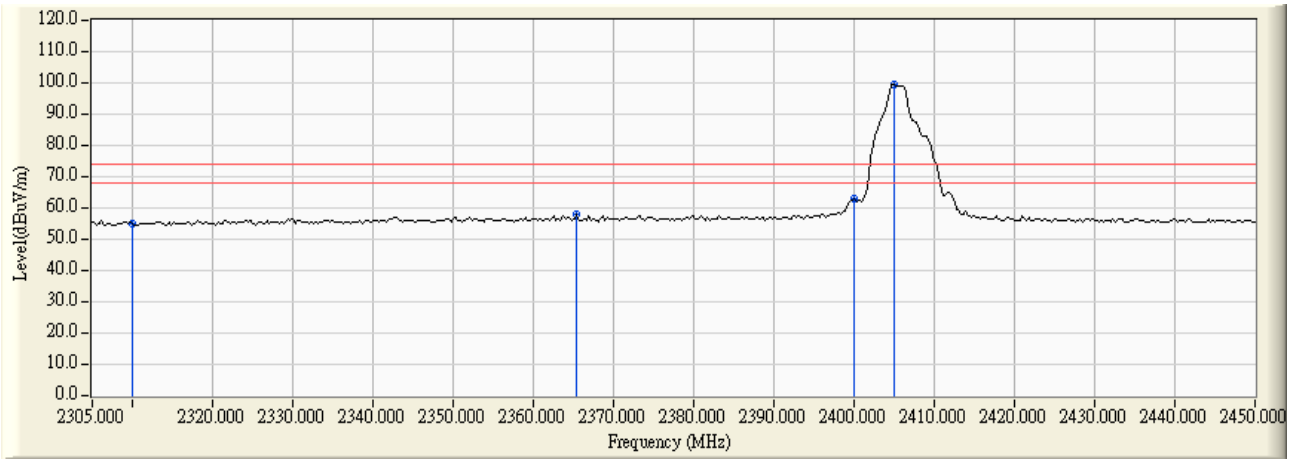


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		2310.000	28.674	26.431	55.105	-18.865	74.000	54.00	PEAK
2		2375.321	28.924	29.671	58.595	-15.375	74.000	54.00	PEAK
3		2400.000	29.022	33.057	62.078	-11.892	74.000	54.00	PEAK
4	*	2404.960	29.038	68.763	97.802	23.832	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/10 - 11:52**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : CH1**

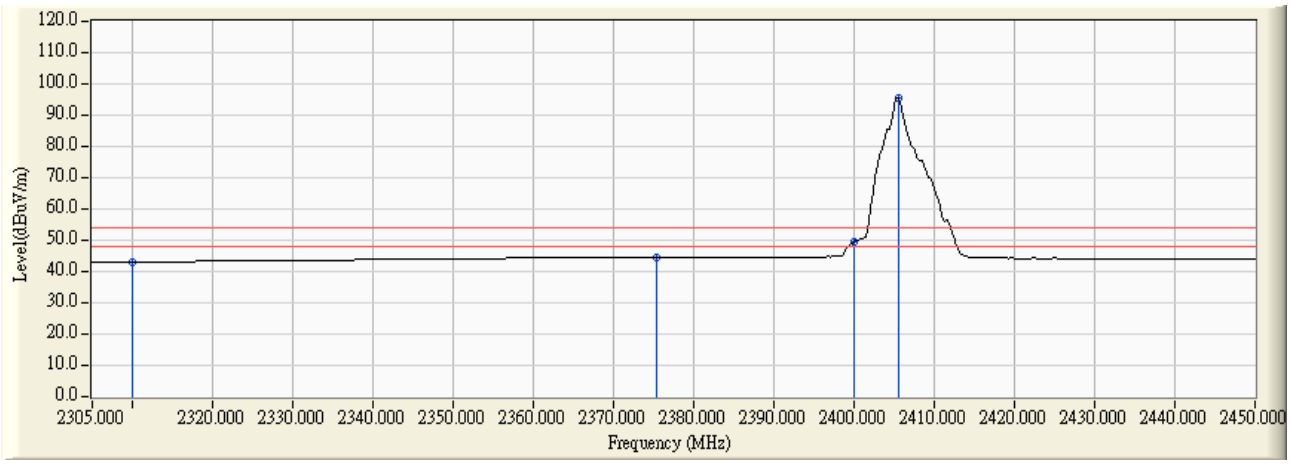


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		2310.000	27.074	27.947	55.021	-18.949	74.000	54.00	PEAK
2		2365.441	27.289	30.812	58.101	-15.869	74.000	54.00	PEAK
3		2400.000	27.422	35.357	62.778	-11.192	74.000	54.00	PEAK
4	*	2404.960	27.438	72.082	99.521	25.551	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/10 - 11:46**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : CH1**

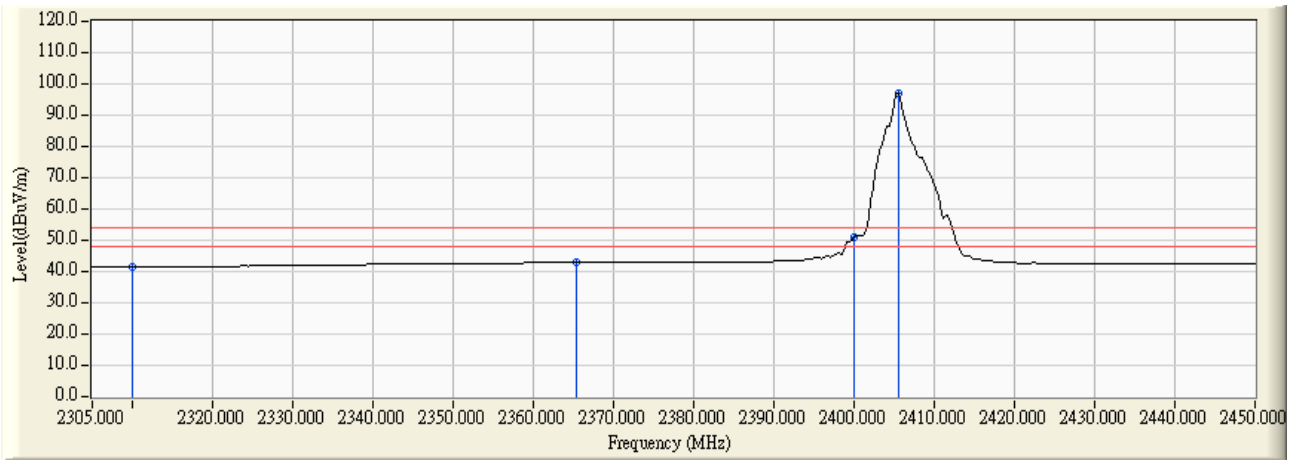


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		2310.000	28.674	14.469	43.143	-10.827	74.000	54.00	AVERAGE
2		2375.321	28.924	15.634	44.558	-9.412	74.000	54.00	AVERAGE
3		2400.000	29.022	20.634	49.655	-4.315	74.000	54.00	AVERAGE
4	*	2405.541	29.041	66.648	95.689	41.719	74.000	54.00	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/10 - 11:53**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : CH1**

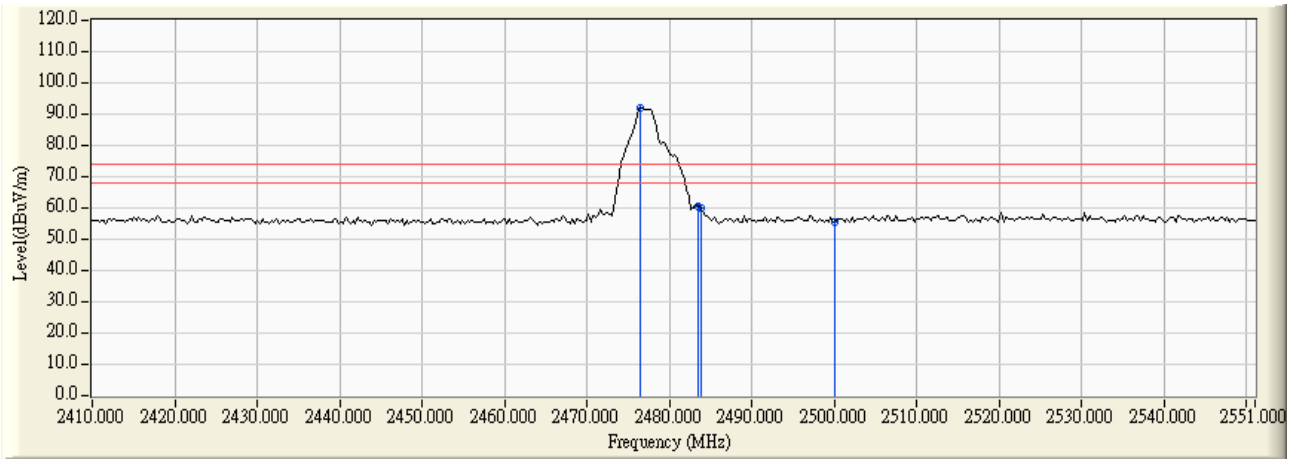


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		2310.000	27.074	14.438	41.512	-12.458	74.000	54.00	AVERAGE
2		2365.441	27.289	15.565	42.854	-11.116	74.000	54.00	AVERAGE
3		2400.000	27.422	23.505	50.926	-3.044	74.000	54.00	AVERAGE
4	*	2405.541	27.441	69.463	96.904	42.934	74.000	54.00	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/10 - 11:23**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : CH8**

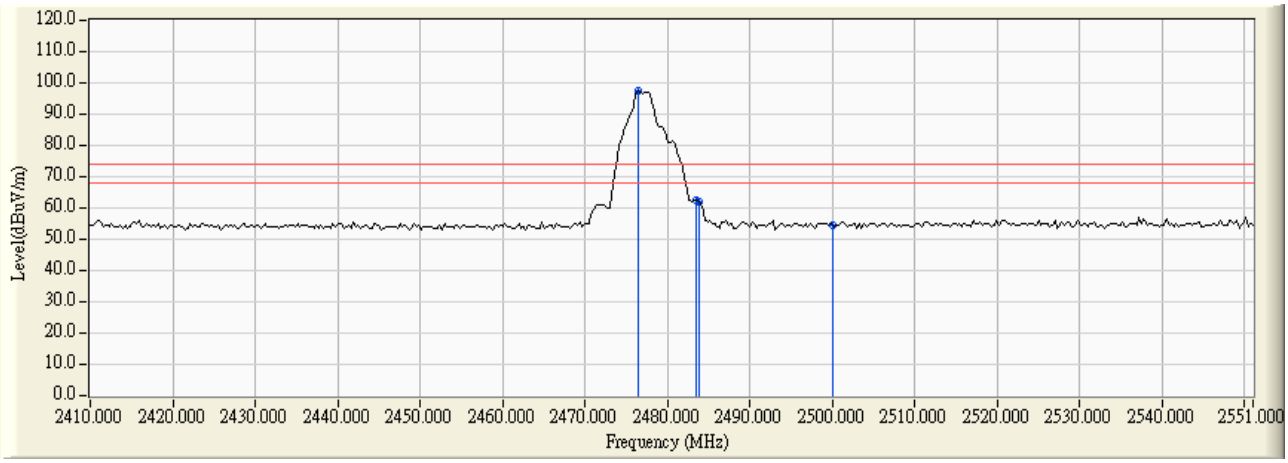


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	2476.403	29.270	62.863	92.134	18.164	74.000	54.00	PEAK
2		2483.500	29.294	30.958	60.251	-13.719	74.000	54.00	PEAK
3		2483.749	29.294	30.555	59.849	-14.121	74.000	54.00	PEAK
4		2500.000	29.344	26.295	55.639	-18.331	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/10 - 11:14**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : CH8**

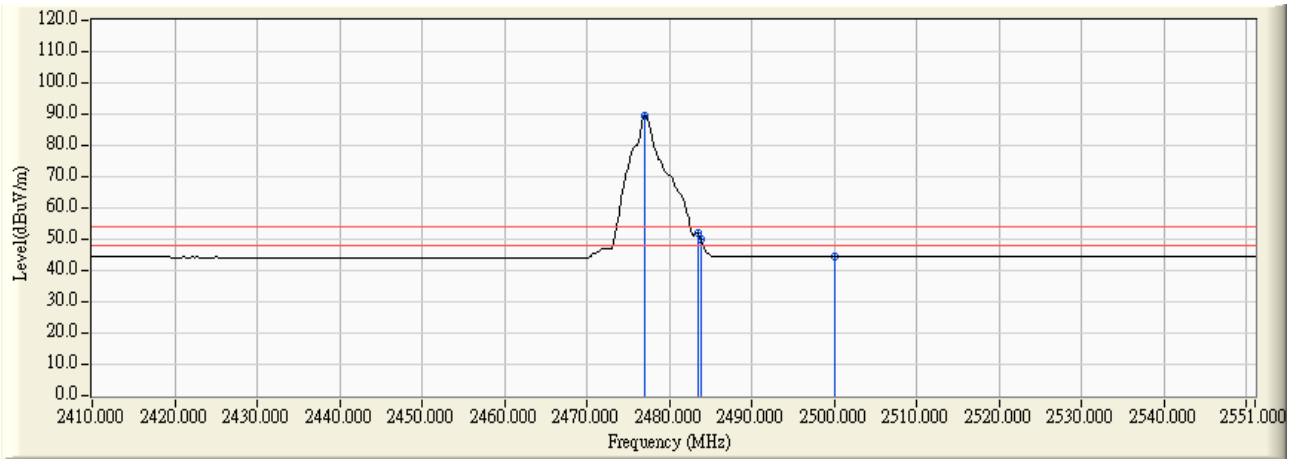


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	2476.403	27.670	69.768	97.439	23.469	74.000	54.00	PEAK
2		2483.500	27.694	34.671	62.364	-11.606	74.000	54.00	PEAK
3		2483.749	27.694	34.418	62.112	-11.858	74.000	54.00	PEAK
4		2500.000	27.744	26.664	54.408	-19.562	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/10 - 11:25**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : DC 5V (Power by PC)	**Note : CH8**

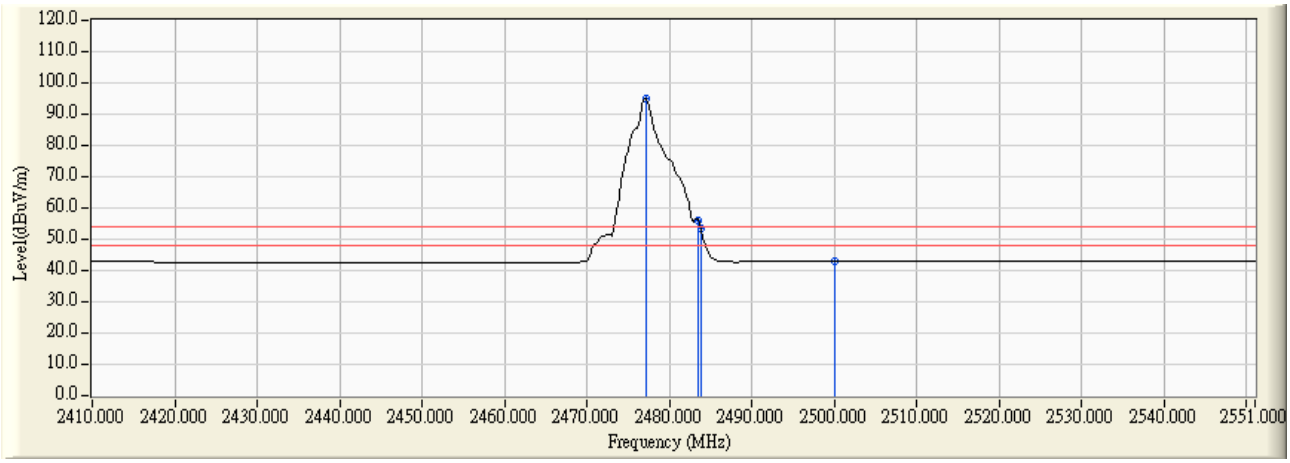


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	2476.968	29.273	60.358	89.631	35.661	74.000	54.00	AVERAGE
2		2483.500	29.294	22.502	51.795	-2.175	74.000	54.00	AVERAGE
3		2483.749	29.294	20.817	50.111	-3.859	74.000	54.00	AVERAGE
4		2500.000	29.344	15.151	44.495	-9.475	74.000	54.00	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/08/10 - 11:15**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
EUT : Wireless Headphone USB Dongle	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : DC 5V (Power by PC)	**Note : CH8**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	2477.250	27.674	67.360	95.034	41.064	74.000	54.00	AVERAGE
2		2483.500	27.694	28.371	56.064	2.094	74.000	54.00	AVERAGE
3		2483.750	27.694	26.041	53.735	-0.235	74.000	54.00	AVERAGE
4		2500.000	27.744	15.148	42.892	-11.078	74.000	54.00	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

6. Occupied Bandwidth

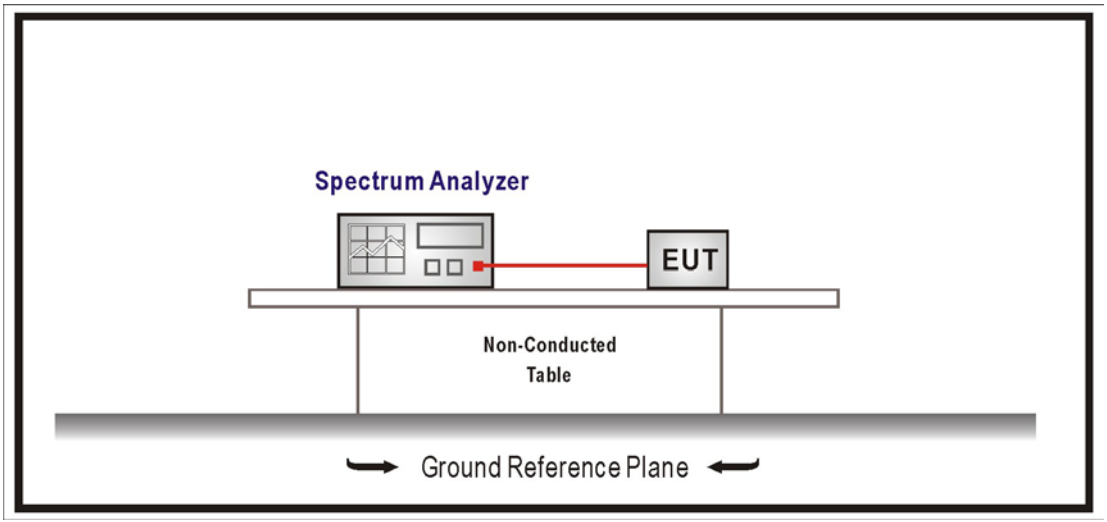
6.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.
For frequency hopping systems operating in the 5725-5850 MHz bands. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.
For frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

6.5. Uncertainty

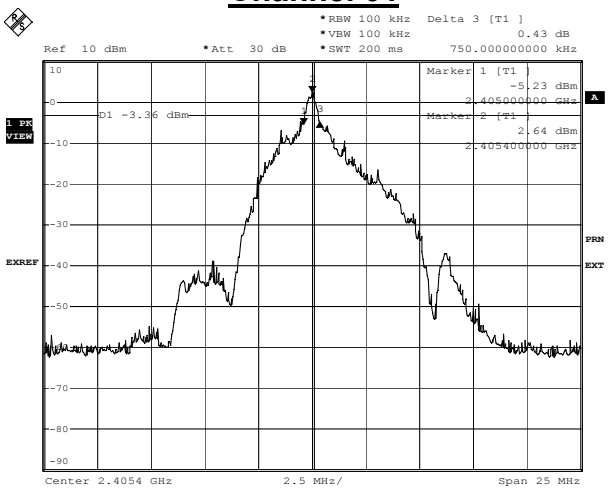
The measurement uncertainty is defined as ±50kHz

6.6. Test Result

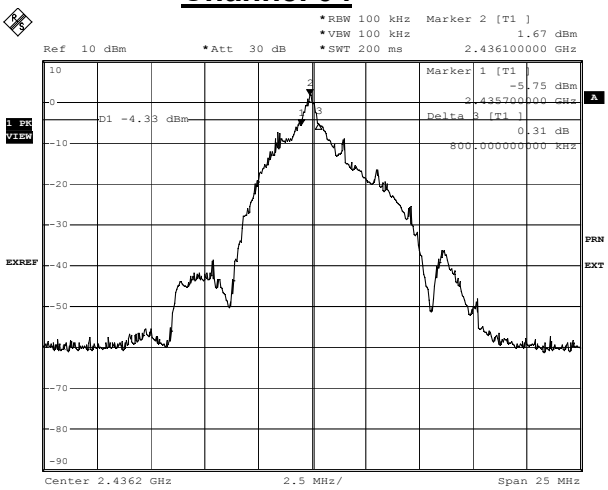
Product	Wireless Headphone USB Dongle		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2007/08/07	Test Site	No.1 OATS

Channel No.	Frequency (MHz)	Measure Value (kHz)	Limit (kHz)	Result
01	2405.376	750	>500	Pass
04	2436.096	800	> 500	Pass
08	2477.056	850	> 500	Pass

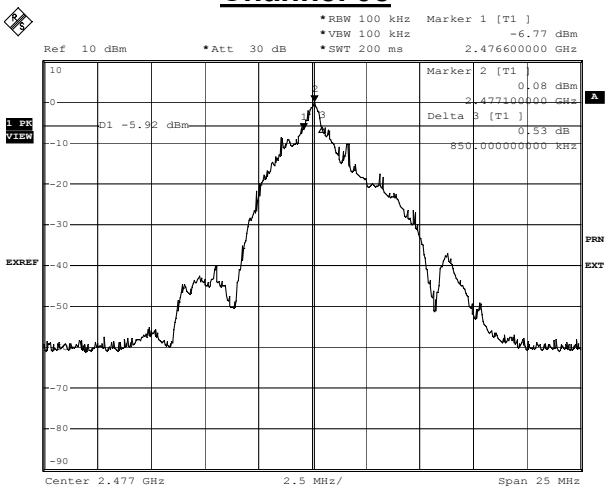
Channel 01



Channel 04



Channel 08



7. Power Density

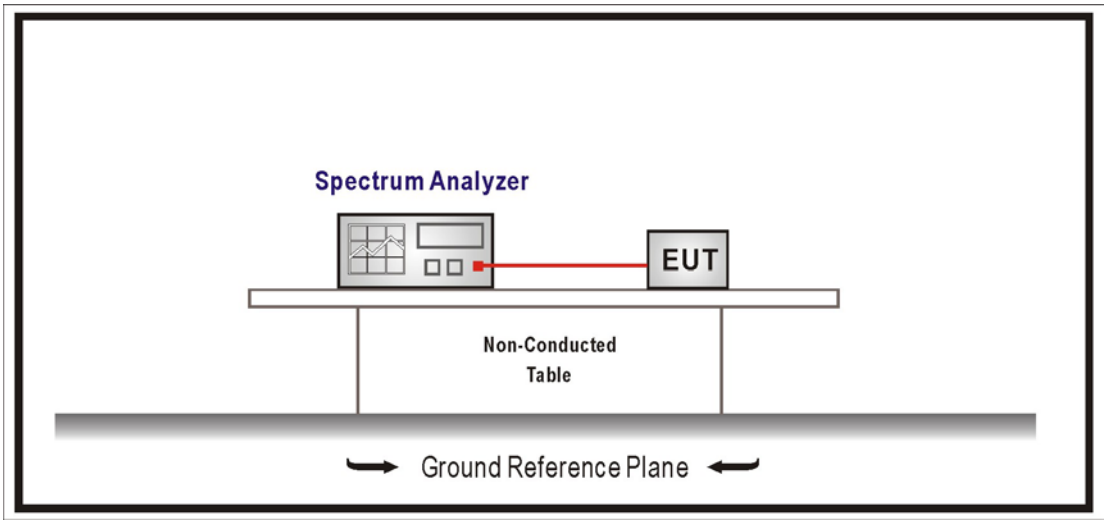
7.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

7.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

7.5. Uncertainty

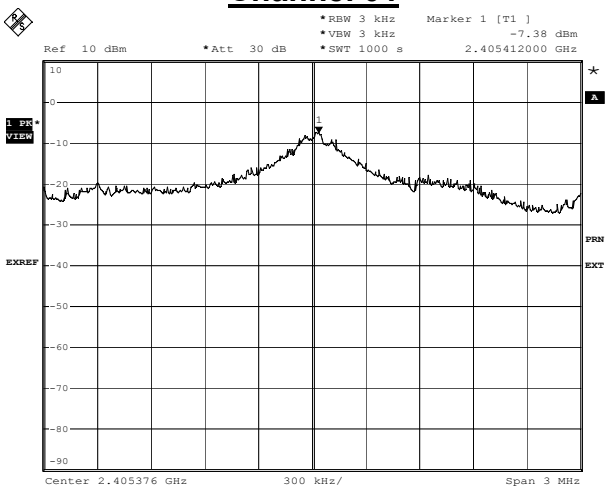
The measurement uncertainty is defined as ±1.27dB.

7.6. Test Result

Product	Wireless Headphone USB Dongle		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2007/08/07	Test Site	No.1 OATS

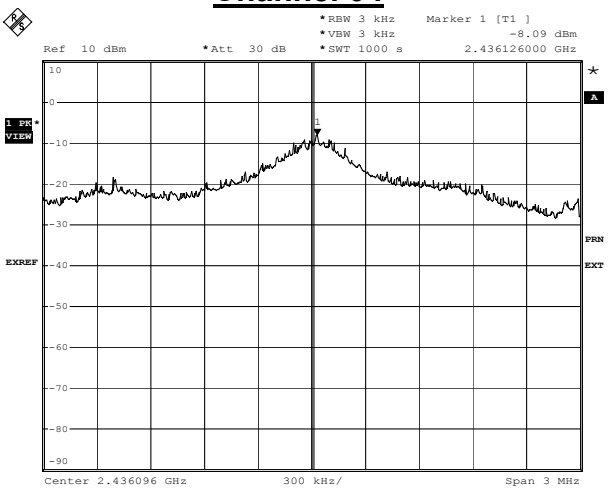
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2405.376	-7.38	<8	Pass
04	2436.096	-8.09	<8	Pass
08	2477.056	-10.43	<8	Pass

Channel 01



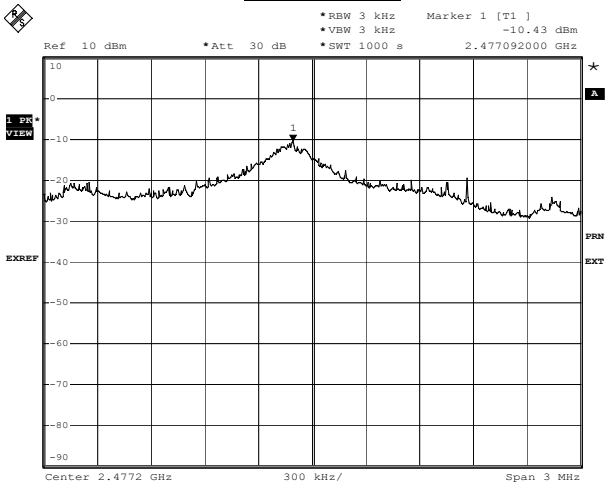
Date: 7.AUG.2007 17:14:04

Channel 04



Date: 7.AUG.2007 17:51:02

Channel 08



Date: 7.AUG.2007 16:52:59