

FCC Test Report

Product Name : GMX Dolby Transmitter
Model No. : SMPRFZ-003
FCC ID. : DoC

Applicant : Skullcandy
Address : 1441 W. Ute Blvd Suite 250, Park City, UT
84098, United States

Date of Receipt : 2013/02/20
Issued Date : 2013/03/14
Report No. : 132251R-RFUSP37V02
Report Version : V1.0



The test results relate only to the samples tested.
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Test Report Certification

Issued Date : 2013/03/14


Report No. : 132251R-RFUSP37V02




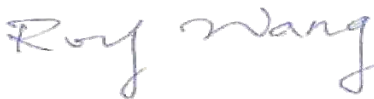
Product Name : GMX Dolby Transmitter
 Applicant : Skullcandy
 Address : 1441 W. Ute Blvd Suite 250, Park City, UT 84098, United States
 Manufacturer : Merry Electronics (Shenzhen) Co., Ltd.
 Model No. : SMPRFZ-003
 FCC ID. : DoC
 EUT Voltage : DC 5V (Power by PC)
 Trade Name : SKULLCANDY
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2011
 Test Result : Complied

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

Reviewed By : 
 (Quale Tang / Engineer)

Approved By : 
 (Roy Wang / Manager)

Laboratory Information

We, **QuieTek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	:	TAF, Accreditation Number: 1313
Germany	:	TUV Rheinland, Certificate No.: 10011438-2-2010
USA	:	FCC, Registration Number: 365520
Canada	:	IC, Submission No: 150981

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site:<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	GMX Dolby Transmitter
Model No.	SMPRFZ-003
Trade Name	SKULLCANDY
Frequency Range	2403.35-2477.35MHz
Type of Modulation	pi/4 - DQPSK
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Number of Channels	38
Channel Control	Full Duplex, Bi-directional

Component	
USB Power Cable	Shielded, 1m
USB Charging Cable	Shielded, 0.5m
XBox Live Cable	Non-Shielded, 1.5m
Optical Cable	1m

Working Frequency of Each Channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01	2403.35 MHz	Channel 14	2429.35 MHz	Channel 27	2455.35 MHz
Channel 02	2405.35 MHz	Channel 15	2431.35 MHz	Channel 28	2457.35 MHz
Channel 03	2407.35 MHz	Channel 16	2433.35 MHz	Channel 29	2459.35 MHz
Channel 04	2409.35 MHz	Channel 17	2435.35 MHz	Channel 30	2461.35 MHz
Channel 05	2411.35 MHz	Channel 18	2437.35 MHz	Channel 31	2463.35 MHz
Channel 06	2413.35 MHz	Channel 19	2439.35 MHz	Channel 32	2465.35 MHz
Channel 07	2415.35 MHz	Channel 20	2441.35 MHz	Channel 33	2467.35 MHz
Channel 08	2417.35 MHz	Channel 21	2443.35 MHz	Channel 34	2469.35 MHz
Channel 09	2419.35 MHz	Channel 22	2445.35 MHz	Channel 35	2471.35 MHz
Channel 10	2421.35 MHz	Channel 23	2447.35 MHz	Channel 36	2473.35 MHz
Channel 11	2423.35 MHz	Channel 24	2449.35 MHz	Channel 37	2475.35 MHz
Channel 12	2425.35 MHz	Channel 25	2451.35 MHz	Channel 38	2477.35 MHz
Channel 13	2427.35 MHz	Channel 26	2453.35 MHz		

Note:

1. These devices are GMX Dolby Transmitter included 2.4GHz receiving functions, and 2.4GHz transmitting functions.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart B.
3. Regards to the frequent band operation; three channels were selected to perform the test, then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function for the 2.4GHz transmitting was measured and made a test report that the report number is 132251R-RFUSP42V01 certified under FCC ID: Y22-SK20130005

1.2. 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:

Rx	Mode 1: Receive
----	-----------------

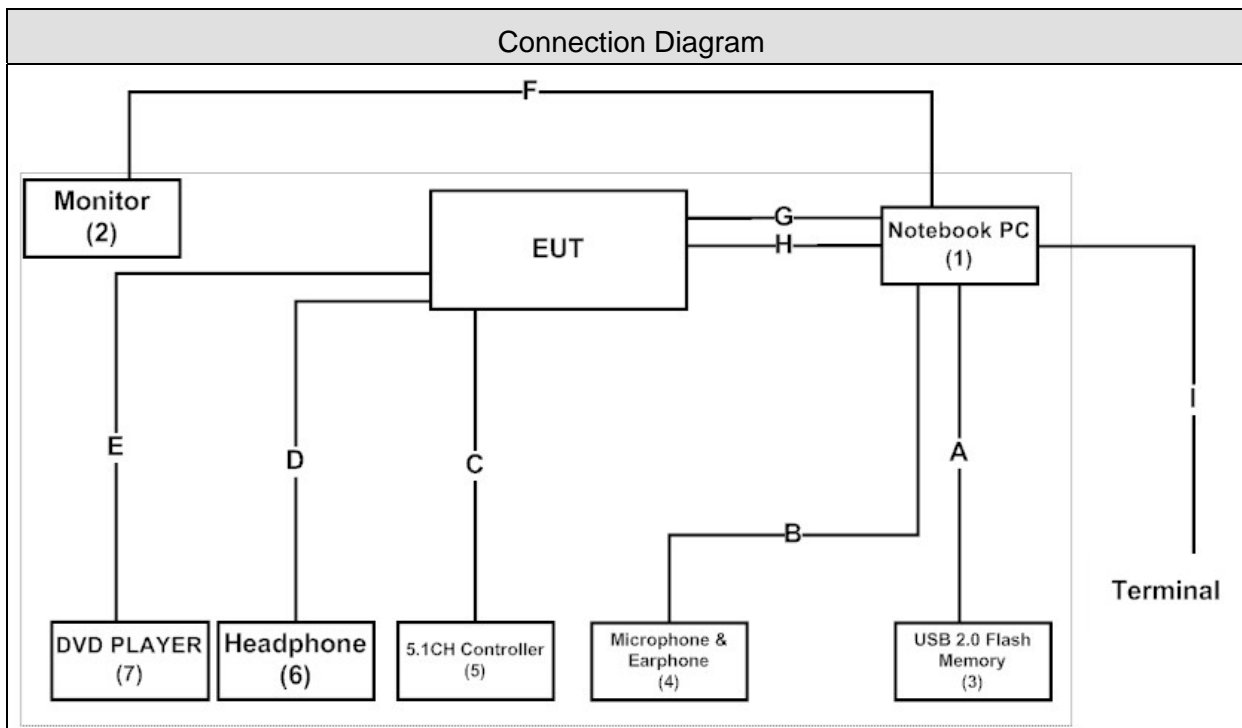
Emission	Mode 1
Conducted Emission	Yes
Radiated Emission (Under 1GHz)	Yes
Radiated Emission (Above 1GHz)	Yes

1.3. 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 Notebook PC	HP	HSTNN-146C	CNU8253S1X	DoC	Non-Shielded, 1.8m
2 Monitor	CHI MEI	A170E1-09	3UC120955RA0 033	DoC	Non-Shielded, 1.8m
3 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
4 Microphone & Earphone	Fujiei	SBZ-38	N/A	DoC	--
5 5.1CH Controller	Logitech	Z-5500	N/A	DoC	--
6 Headphone	Merry Electronics	SMPLFY	N/A	DoC	--
7 DVD PLAYER	Pioneer	DV-600AV	GFKD002112LS	DoC	Non-Shielded, 1.8m

1.4. Configuration of tested System



Signal Cable Type		Signal cable Description
A	USB 2.0 Flash Memory Cable	Shielded, 1m
B	Microphone & Earphone Cable	Non-Shielded, 1.2m
C	Optical Fiber Cable	1m
D	USB Cable	Shielded, 1m
E	Optical Fiber Cable	1m
F	VGA Cable	Shielded, 1.5m
G	USB Charging Cable	Shielded, 0.5m
H	USB Power Cable	Shielded, 1m
I	LAN Cable	Non-Shielded, 3m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the VMI Dev V1.1.6.38 on the EUT.
3	Configure the test mode, and the test channel
4	Press "Start RX" to start the continuous receiving.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 B 15.109 Conducted Emission	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 B 15.109 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

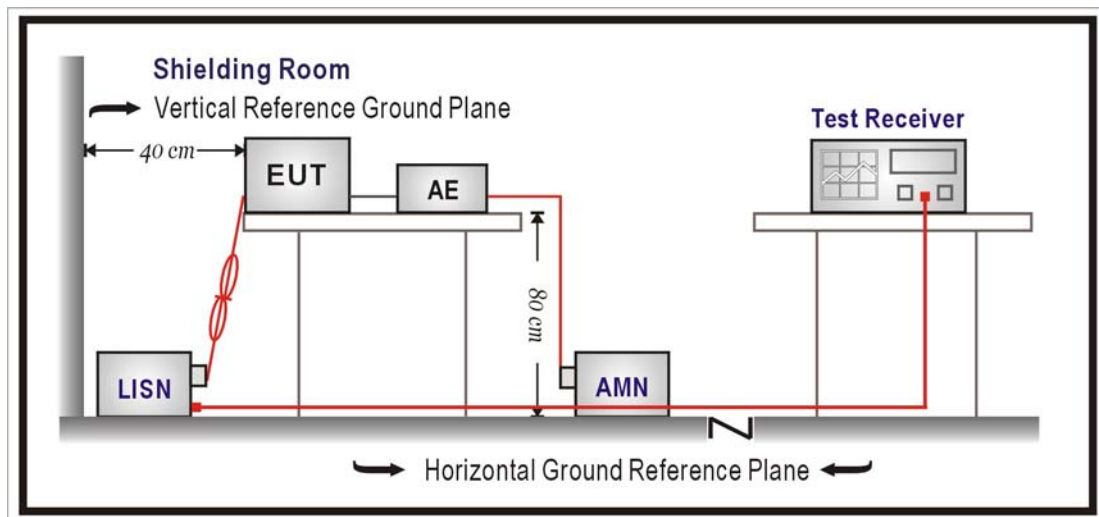
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2013/08/12
LISN	R&S	ESH3-Z5	836679/022	2014/01/20
Test Receiver	R&S	ESCS 30	825442/017	2014/01/01

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

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart B Paragraph 15.107 Limits (dBuV)				
Frequency MHz	Class A		Class B	
	QP	AV	QP	AV
0.15 - 0.50	79	66	66-56	56-46
0.50 - 5.0	73	60	56	46
5.0 - 30	73	60	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: 2009 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

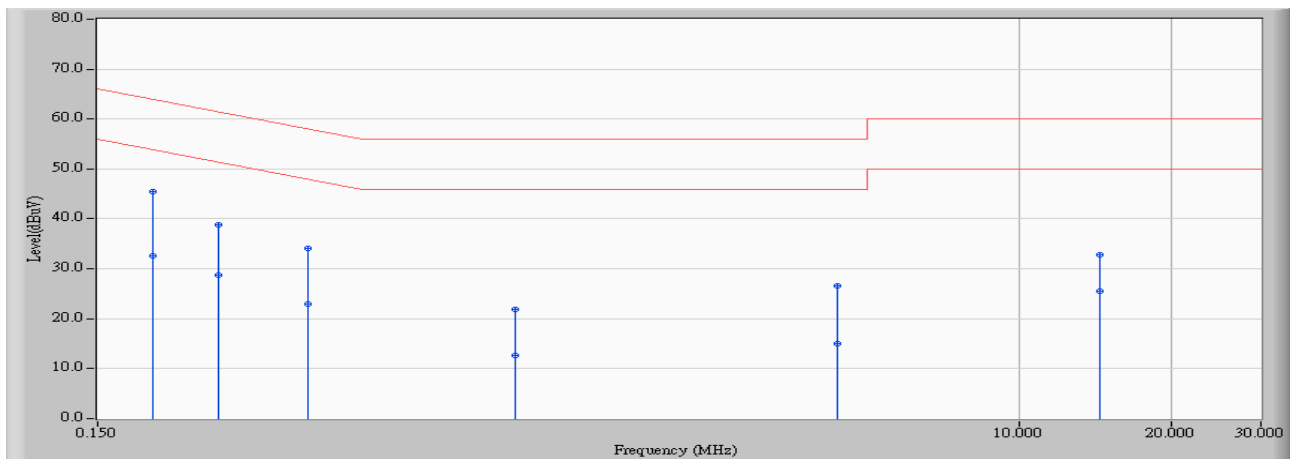
According to FCC Part 15 Subpart B: 2011

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2013/03/12 - 19:19
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-2_0813 - Line1	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note :

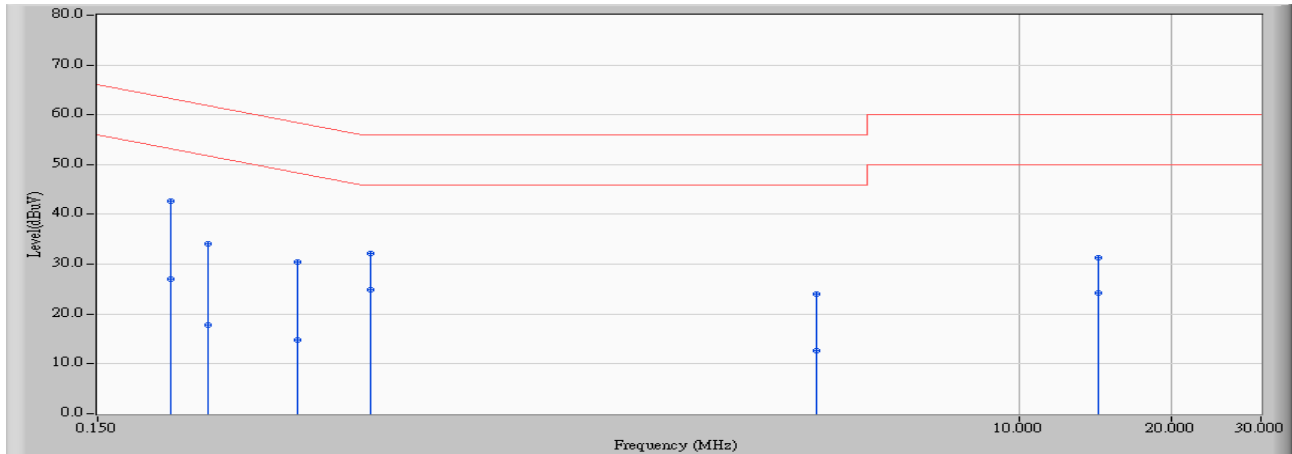


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.193	9.692	35.700	45.392	-18.516	63.908	QUASIPeAK
2		0.193	9.692	22.990	32.682	-21.226	53.908	AVERAGE
3		0.259	9.692	29.170	38.862	-22.589	61.451	QUASIPeAK
4		0.259	9.692	19.070	28.762	-22.689	51.451	AVERAGE
5		0.392	9.768	24.420	34.188	-23.829	58.017	QUASIPeAK
6		0.392	9.768	13.130	22.898	-25.119	48.017	AVERAGE
7		1.005	9.940	11.970	21.910	-34.090	56.000	QUASIPeAK
8		1.005	9.940	2.660	12.600	-33.400	46.000	AVERAGE
9		4.357	10.089	16.400	26.489	-29.511	56.000	QUASIPeAK
10		4.357	10.089	4.940	15.029	-30.971	46.000	AVERAGE
11		14.379	10.128	22.670	32.798	-27.202	60.000	QUASIPeAK
12		14.379	10.128	15.340	25.468	-24.532	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 : SR3	Time : 2013/03/12 - 19:22
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-2_0813 - Line2	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note :



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.209	9.663	32.920	42.583	-20.678	63.261	QUASPEAK
2		0.209	9.663	17.460	27.123	-26.138	53.261	AVERAGE
3		0.248	9.683	24.410	34.093	-27.742	61.835	QUASPEAK
4		0.248	9.683	8.180	17.863	-33.972	51.835	AVERAGE
5		0.373	9.748	20.640	30.388	-28.053	58.442	QUASPEAK
6		0.373	9.748	4.950	14.698	-33.743	48.442	AVERAGE
7		0.521	9.826	22.340	32.166	-23.834	56.000	QUASPEAK
8		0.521	9.826	15.150	24.976	-21.024	46.000	AVERAGE
9		3.959	10.025	14.070	24.095	-31.905	56.000	QUASPEAK
10		3.959	10.025	2.670	12.695	-33.305	46.000	AVERAGE
11		14.295	10.202	21.060	31.262	-28.738	60.000	QUASPEAK
12		14.295	10.202	14.080	24.282	-25.718	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.

2.8. Test Photo

Test Mode : Mode 1: Receive

Description : Front View of Conducted Emission Test Setup



Test Mode : Mode 1: Receive

Description : Back View of Conducted Emission Test Setup



3. Radiated Emission

3.1. Test Equipment

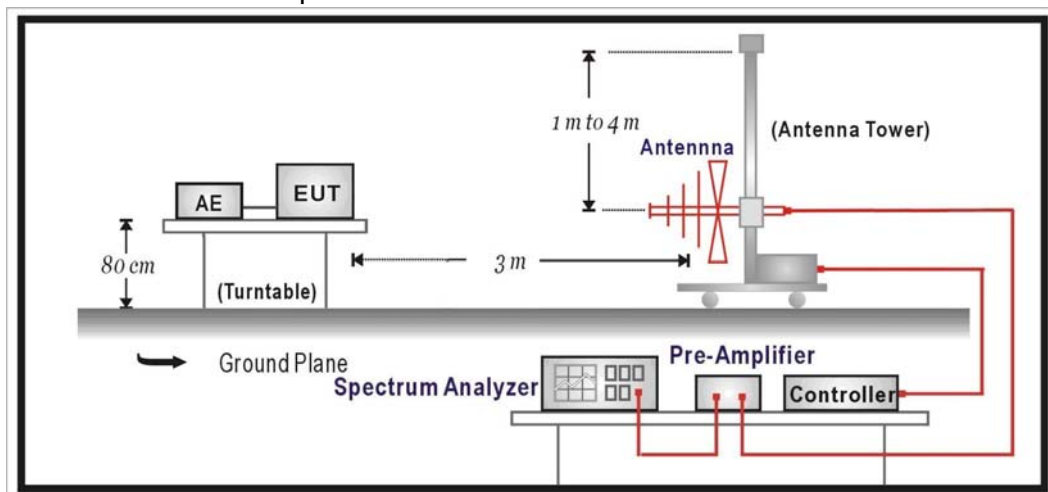
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2013/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2014/02/17
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2013/12/02
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2014/02/19
Spectrum Analyzer	Agilent	E4440A	MY46187335	2014/01/27
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2014/02/21

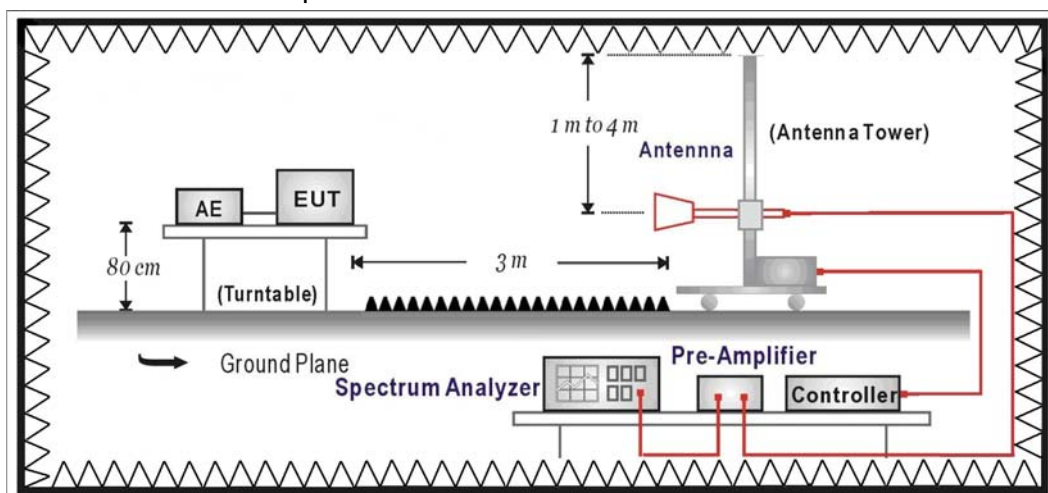
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



3.3. Limits

CISPR 22 Limits (dBuV/m)				
Frequency MHz	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30 – 230	10	40	10	30
230 – 1000	10	47	10	37

- Remark: 1. The tighter limit shall apply at the edge between two frequency bands.
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

FCC Part 15 Subpart B Paragraph 15.109 Limits				
Frequency MHz	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30-88	10	39	3	40
88-216	10	43.5	3	43.5
216-960	10	46.4	3	46
Above 960	10	49.5	3	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.

Carrier current systems used as unintentional radiators or other unintentional radiators that are designed to conduct their radio frequency emissions via connecting wires or cables and that operate in the frequency range of 9 kHz to 30 MHz, including devices that deliver the radio frequency energy to transducers, such as ultrasonic devices not covered under part 18 of this chapter, shall comply with the radiated emission limits for intentional radiators provided in §15.209 for the frequency range of 9 kHz to 30 MHz. As an alternative, carrier current systems used as unintentional radiators and operating in the frequency range of 525 kHz to 1705 kHz may comply with the radiated emission limits provided in §15.221(a).

3.4. Test Procedure

Under 30MHz Test:

The EUT and its simulators are placed on a turn table which is 1.0 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum electric field strength. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna which is 1.0 meter above ground. All X-axis, Y-axis and Z-axis polarization of the antenna are set on measurement.

The bandwidth below 30MHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 200Hz and above 30MHz is 9 kHz.

The emission limit shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limit in these three bands are based on measurements employing an average detector.

Above 30MHz Test:

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.

For class A, the EUT was positioned such that the distance from antenna to the EUT was 10 meters for under 1GHz and above 1GHz.

For class B, the EUT was positioned such that the distance from antenna to the EUT was 3 or 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz and above 1GHz is 1MHz.

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 C63.4:2009 on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR 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.

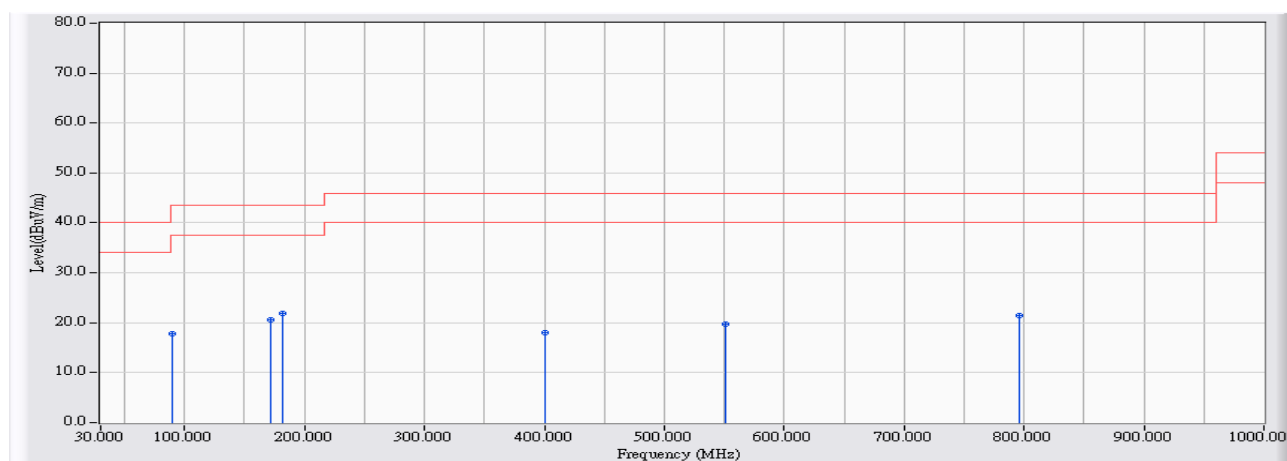
3.5. Test Specification

According to FCC Part 15 Subpart B Paragraph 15.109: 2011

3.6. Test Result

30 MHz – 1 GHz Spurious:

Site : CB1	Time : 2013/03/04 - 13:03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note : 2441.35MHz

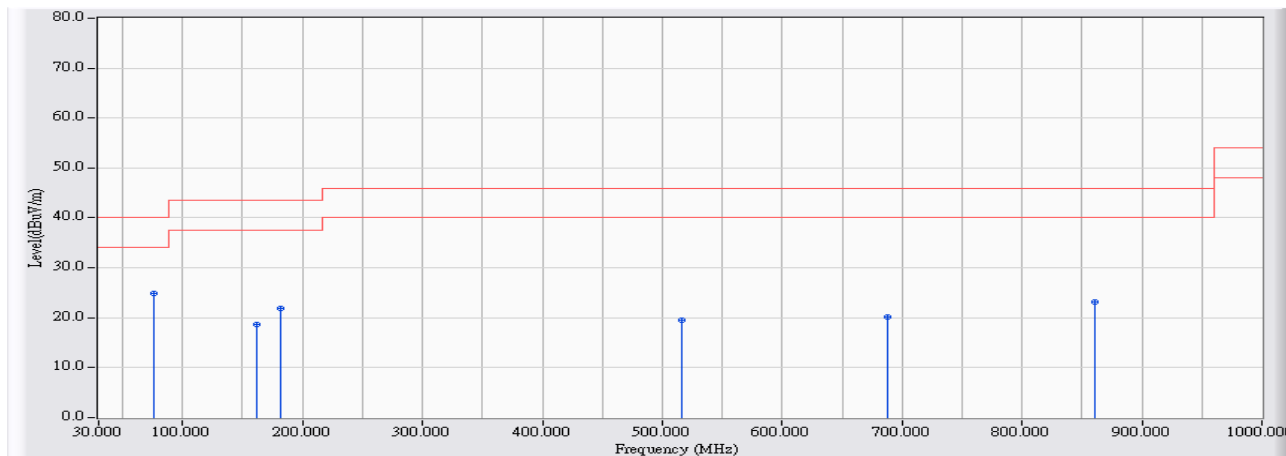


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	89.170	-15.197	33.027	17.830	-25.670	43.500	QUASPEAK
2	171.620	-14.131	34.803	20.672	-22.828	43.500	QUASPEAK
3	* 181.320	-14.530	36.467	21.938	-21.562	43.500	QUASPEAK
4	400.540	-7.388	25.308	17.920	-28.080	46.000	QUASPEAK
5	550.890	-4.964	24.685	19.721	-26.279	46.000	QUASPEAK
6	796.300	-3.028	24.536	21.507	-24.493	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/03/04 - 13:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note : 2441.35MHz



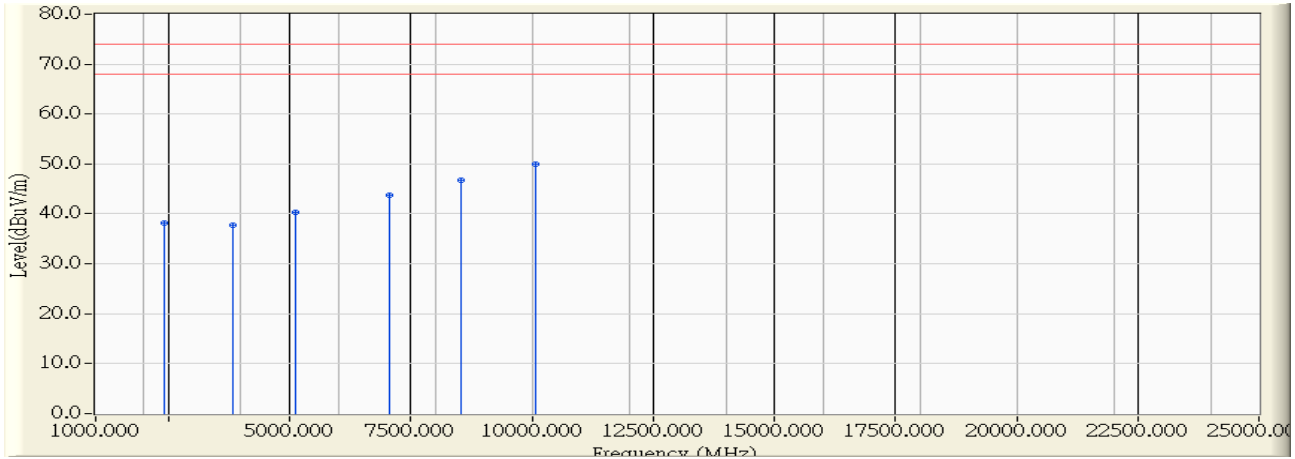
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	75.590	-16.597	41.410	24.813	-15.187	40.000	QUASPEAK
2		161.920	-13.680	32.424	18.744	-24.756	43.500	QUASPEAK
3		181.320	-14.530	36.329	21.800	-21.700	43.500	QUASPEAK
4		515.970	-5.050	24.622	19.572	-26.428	46.000	QUASPEAK
5		687.660	-4.306	24.481	20.174	-25.826	46.000	QUASPEAK
6		860.320	-2.664	25.826	23.162	-22.838	46.000	QUASPEAK

Note:

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

Above 1 GHz Spurious:

Site : CB1	Time : 2013/03/01 - 17:47
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note : 2403.35MHz

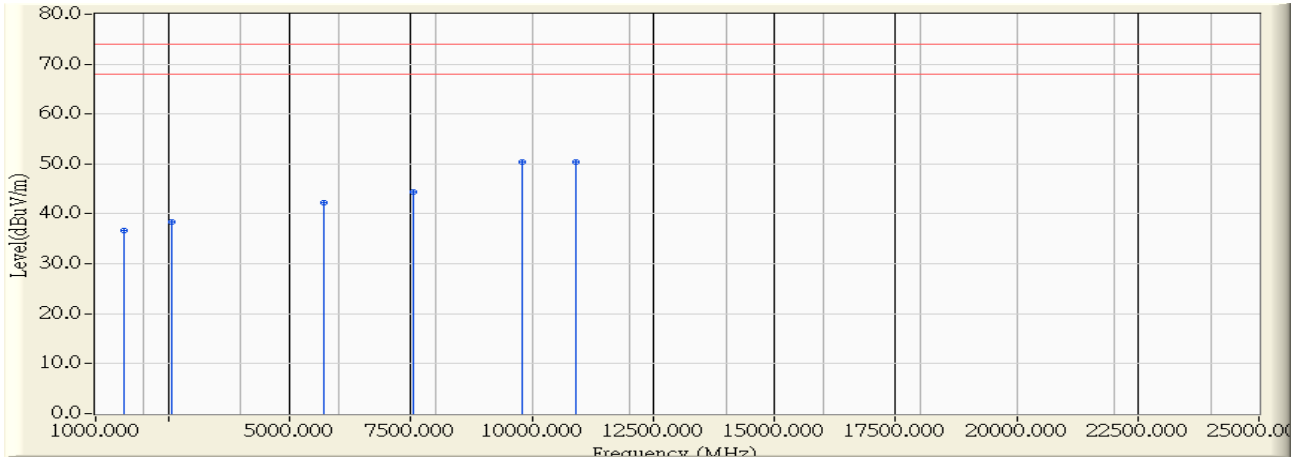


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	2416.000	-3.729	41.914	38.185	-35.815	54.000	74.000	PEAK
2	3832.000	-3.052	40.860	37.808	-36.192	54.000	74.000	PEAK
3	5128.000	0.658	39.611	40.270	-33.730	54.000	74.000	PEAK
4	7072.000	5.101	38.691	43.792	-30.208	54.000	74.000	PEAK
5	8536.000	7.017	39.819	46.836	-27.164	54.000	74.000	PEAK
6	* 10072.000	11.589	38.345	49.934	-24.066	54.000	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2013/03/01 - 17:50
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note : 2403.35MHz

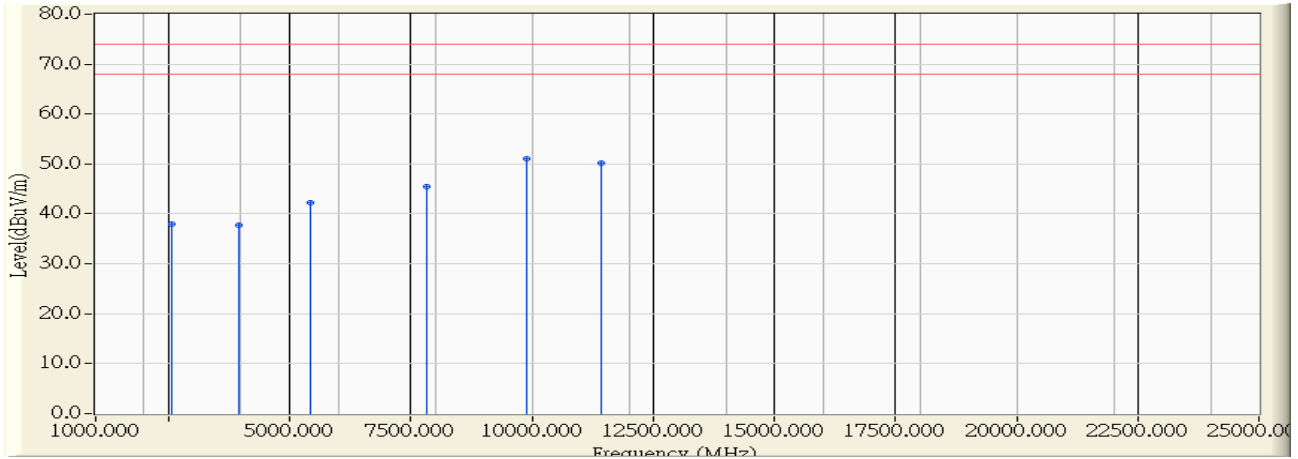


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	1576.000	-9.077	45.663	36.586	-37.414	54.000	74.000	PEAK
2	2560.000	-3.080	41.533	38.453	-35.547	54.000	74.000	PEAK
3	5704.000	2.849	39.379	42.228	-31.772	54.000	74.000	PEAK
4	7552.000	6.229	38.082	44.311	-29.689	54.000	74.000	PEAK
5	9808.000	10.390	39.996	50.386	-23.614	54.000	74.000	PEAK
6	* 10912.000	12.037	38.398	50.436	-23.564	54.000	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2013/03/01 - 17:53
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note : 2441.35MHz

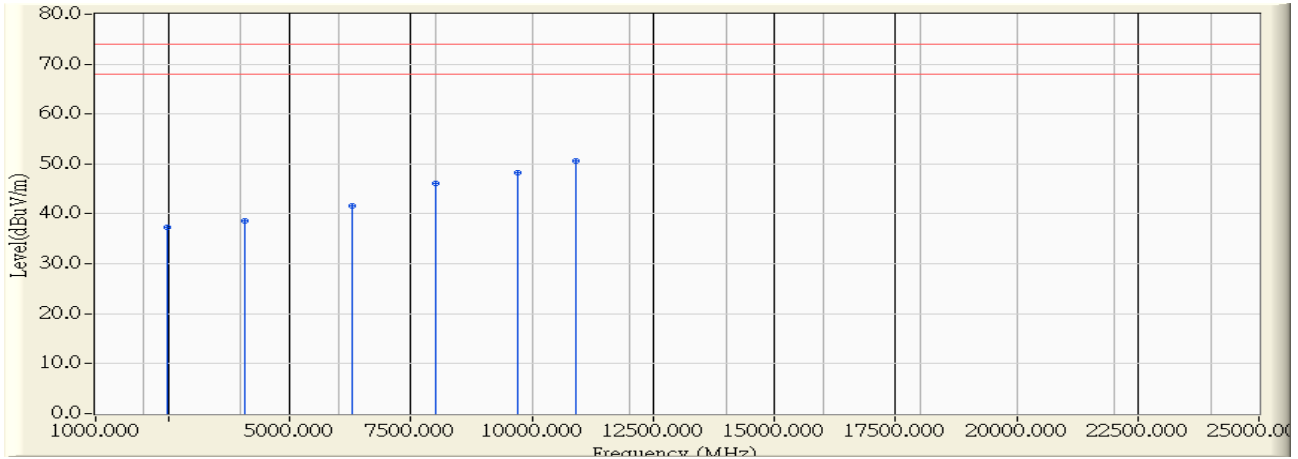


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	2584.000	-3.144	41.125	37.982	-36.018	54.000	74.000	PEAK
2	3952.000	-2.697	40.424	37.726	-36.274	54.000	74.000	PEAK
3	5440.000	3.097	39.240	42.337	-31.663	54.000	74.000	PEAK
4	7816.000	6.714	38.845	45.559	-28.441	54.000	74.000	PEAK
5	* 9904.000	11.087	39.992	51.078	-22.922	54.000	74.000	PEAK
6	11416.000	12.171	38.039	50.211	-23.789	54.000	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2013/03/01 - 17:55
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note : 2441.35MHz

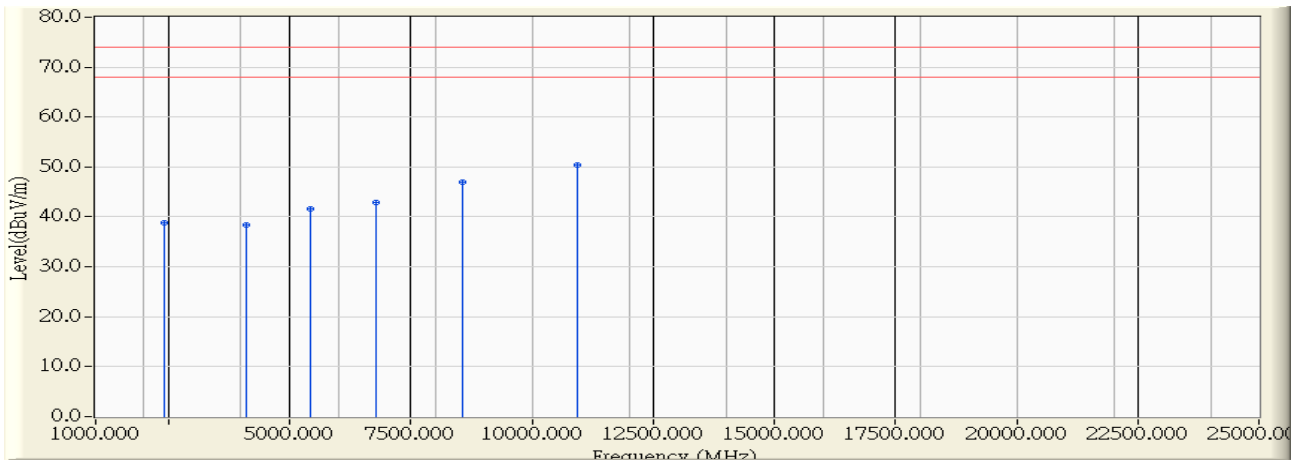


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	2488.000	-3.038	40.419	37.381	-36.619	54.000	74.000	PEAK
2	4072.000	-2.422	41.123	38.700	-35.300	54.000	74.000	PEAK
3	6280.000	2.882	38.677	41.559	-32.441	54.000	74.000	PEAK
4	8008.000	7.053	39.124	46.176	-27.824	54.000	74.000	PEAK
5	9712.000	9.695	38.604	48.299	-25.701	54.000	74.000	PEAK
6	* 10912.000	12.037	38.559	50.597	-23.403	54.000	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2013/03/01 - 17:58
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note : 2477.35MHz

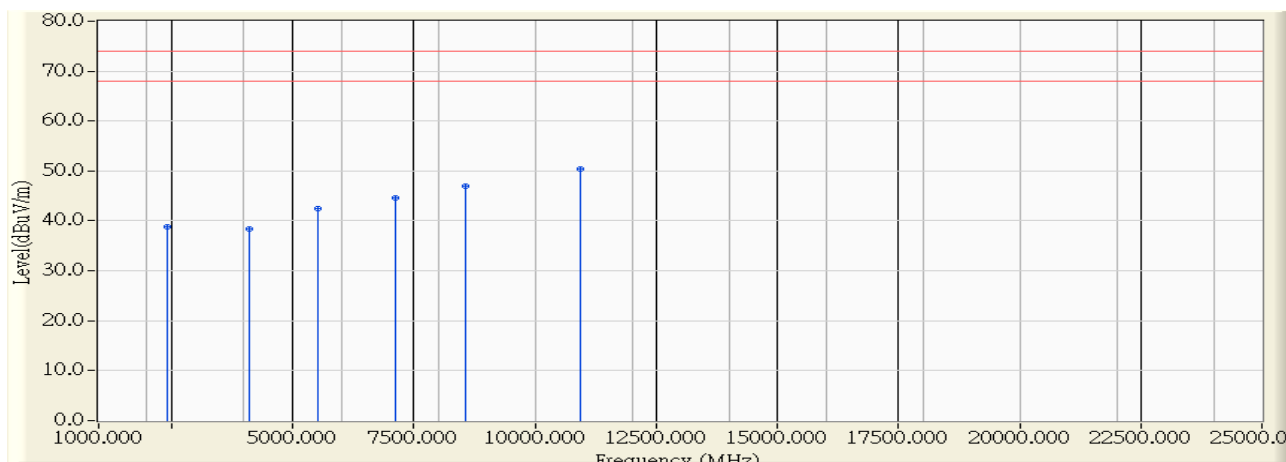


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	2416.000	-3.729	42.532	38.803	-35.197	54.000	74.000	PEAK
2	4120.000	-2.337	40.686	38.349	-35.651	54.000	74.000	PEAK
3	5416.000	2.909	38.711	41.620	-32.380	54.000	74.000	PEAK
4	6784.000	4.405	38.525	42.930	-31.070	54.000	74.000	PEAK
5	8584.000	7.033	39.875	46.909	-27.091	54.000	74.000	PEAK
6	* 10936.000	12.131	38.210	50.342	-23.658	54.000	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2013/03/01 - 18:01
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
Power : GMX Dolby Transmitter	Note : 2477.35MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	2416.000	-3.729	42.532	38.803	-35.197	54.000	74.000	PEAK
2	4120.000	-2.337	40.686	38.349	-35.651	54.000	74.000	PEAK
3	5512.000	3.522	38.956	42.478	-31.522	54.000	74.000	PEAK
4	7120.000	5.217	39.470	44.687	-29.313	54.000	74.000	PEAK
5	8584.000	7.033	39.875	46.909	-27.091	54.000	74.000	PEAK
6	* 10936.000	12.131	38.210	50.342	-23.658	54.000	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

3.7. Test Photo

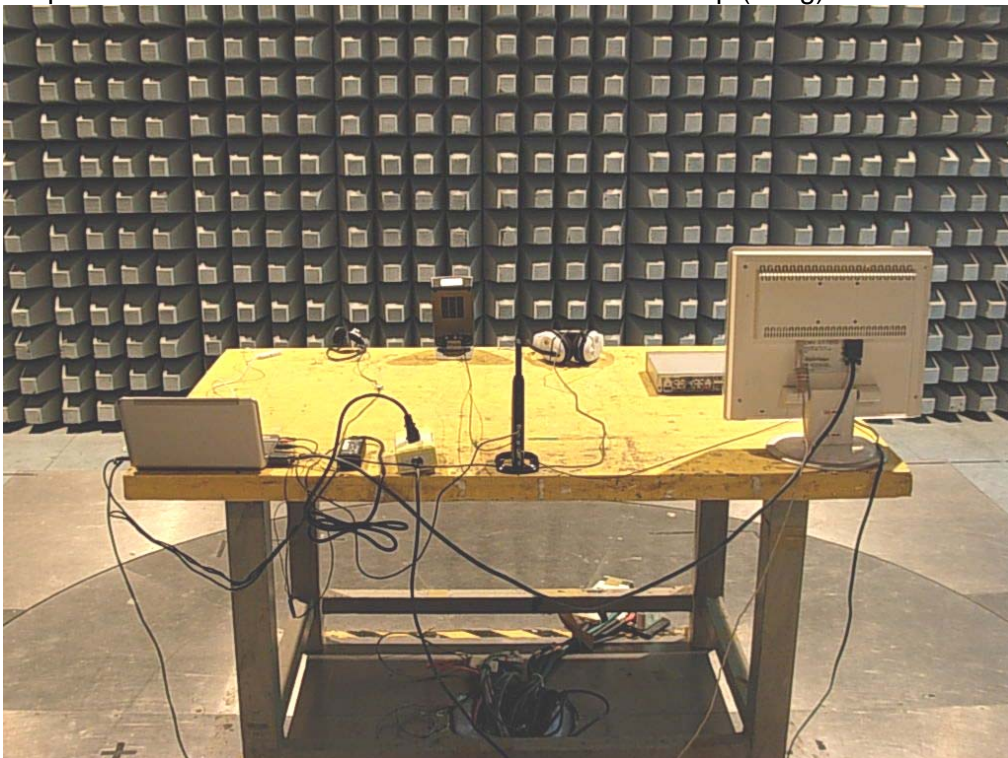
Test Mode : Mode 1: Receive

Description : Front View of Radiated Emission Test Setup (Bilog)



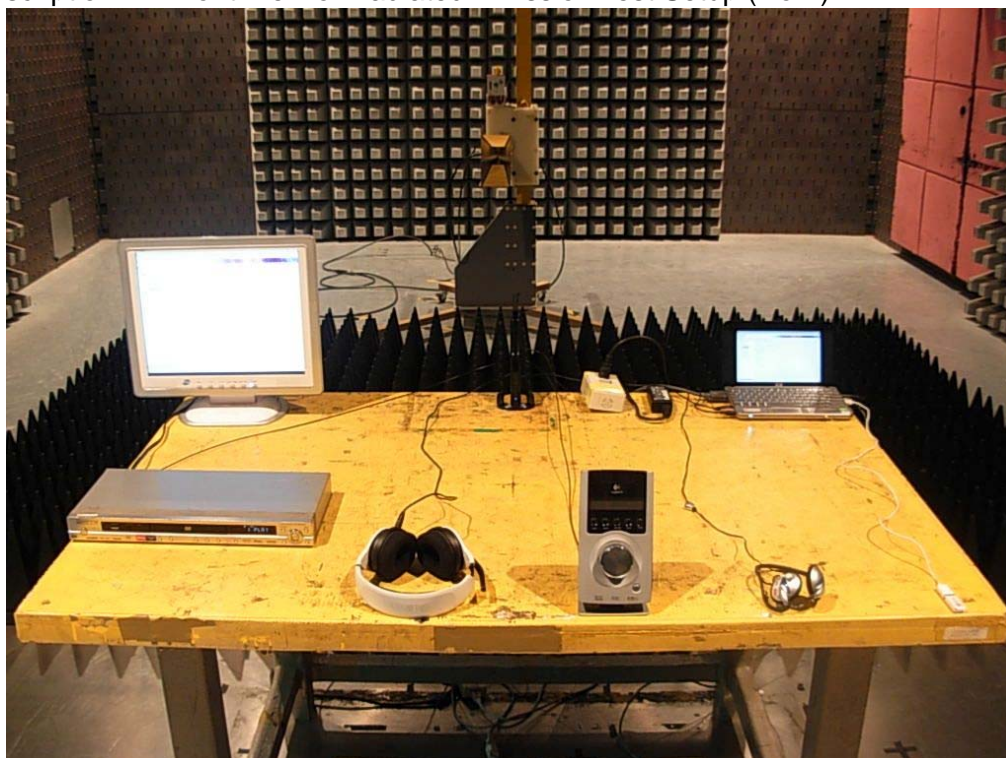
Test Mode : Mode 1: Receive

Description : Back View of Radiated Emission Test Setup (Bilog)



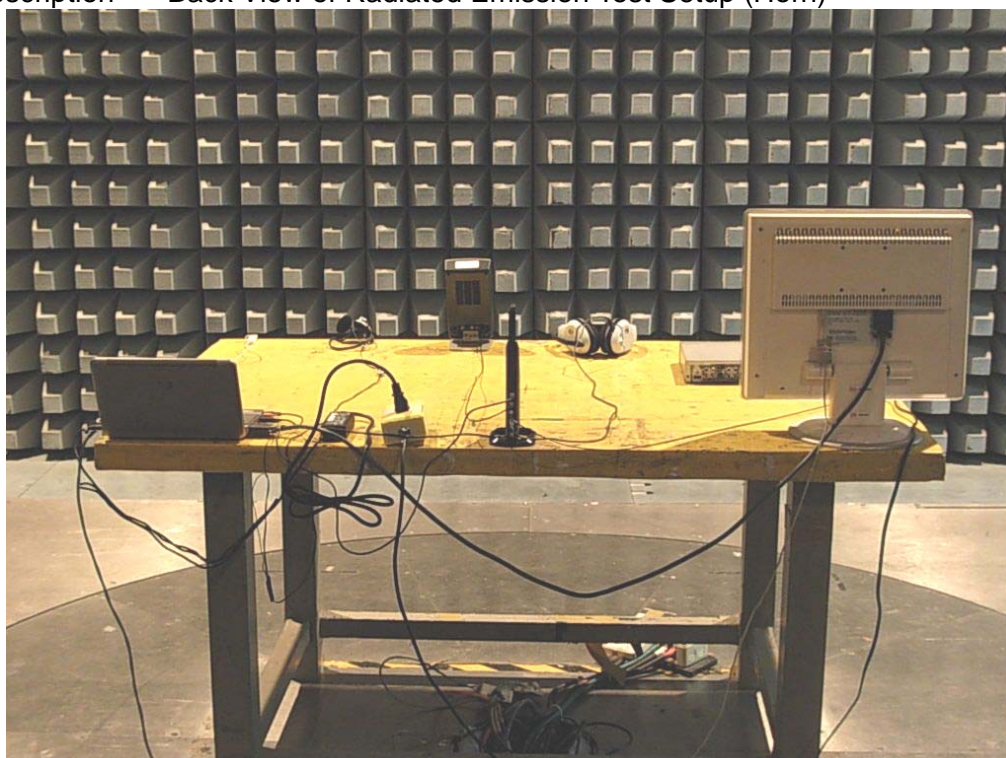
Test Mode : Mode 1: Receive

Description : Front View of Radiated Emission Test Setup (Horn)



Test Mode : Mode 1: Receive

Description : Back View of Radiated Emission Test Setup (Horn)



Attachment

➤ EUT Photograph

(1) EUT Photo



(2) EUT Photo

