Test Report

Product Name ： 5.8GHz Video Sender
Model No. ： AWV698, AWV602, AWV603, AWV604
FCC ID. ： NGVAWW698TX

Applicant ： AIRWAVE TECHNOLOGIES INC.
Address ： 4F, NO.9, INDUSTRY E. RD. IX, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU, TAIWAN, R.O.C.

Date of Receipt ： 2007/01/26
Issued Date ： 2007/03/21
Report No. ： 072H002-RFUSP07V01

Test Report Certification

Issued Date : 2006/03/28
Report No. : 072H002-RFUSP07V01

QuieTek

Product Name	:	5.8GHz Video Sender
Applicant	:	AIRWAVE TECHNOLOGIES INC.
Address	:	4F, NO.9, INDUSTRY E. RD. IX, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU, TAIWAN, R.O.C.
Manufacturer	:	AIRWAVE TECHNOLOGIES INC.
Model No.	:	AWV698, AWV602, AWV603, AWV604
FCC ID.	:	NGVAWW698TX
Rated Voltage	:	AC 120 V / 60 Hz
EUT Voltage	:	DC 9V
Trade Name	:	AIRWAVE
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.249
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 : Demi Chang

(Demi Chang)

Tested By : Eric Lee

(Eric Lee)

Approved By : Roy Wang

(Roy Wan)

TABLE OF CONTENTS

1. General Information

1.1. EUT Description

Product Name	5.8GHz Video Sender
Trade Name	AIRWAVE
Model No.	AWV698, AWV602, AWV603, AWV604
Frequency Range	5740~5860MHz
Channel Number	7
Type of Modulation	FM
Channel Control	Manual
Antenna Type	Soldered on PCB

Component	
Power Adapter	DVE, DV-9300S /P: 120V / 60Hz O/P: 9V / 300mA Cable Out: Non-Shielded, 1.8m

Working Frequency of Each Channel	
Channel	Frequency
001	5740 MHz
002	5760 MHz
003	5780 MHz
004	5800 MHz
005	5820 MHz
006	5840 MHz
007	5860 MHz

Note:

1. This device is 5.8GHz Video Sender which including 5.8GHz transmitting function.
2. The variation of model number is for different housing. The circuit of each model is identical.
3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249.
4. Regards to the frequency band operation; 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 072H002-RFUSP01V02 under Declaration of Conformity.

1.2. Operation Description

The EUT is 5.8GHz Video Sender. The operation frequency is from 5730 MHz to 5870 MHz with FM modulation. Two manually selectable channels were built in the EUT. The signal will be transmitted through 5730 MHz or 5870 MHz FM RF signal from the soldered on PCB antenna from EUT to receiver. DC 9V shall be provided for EUT operation.

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

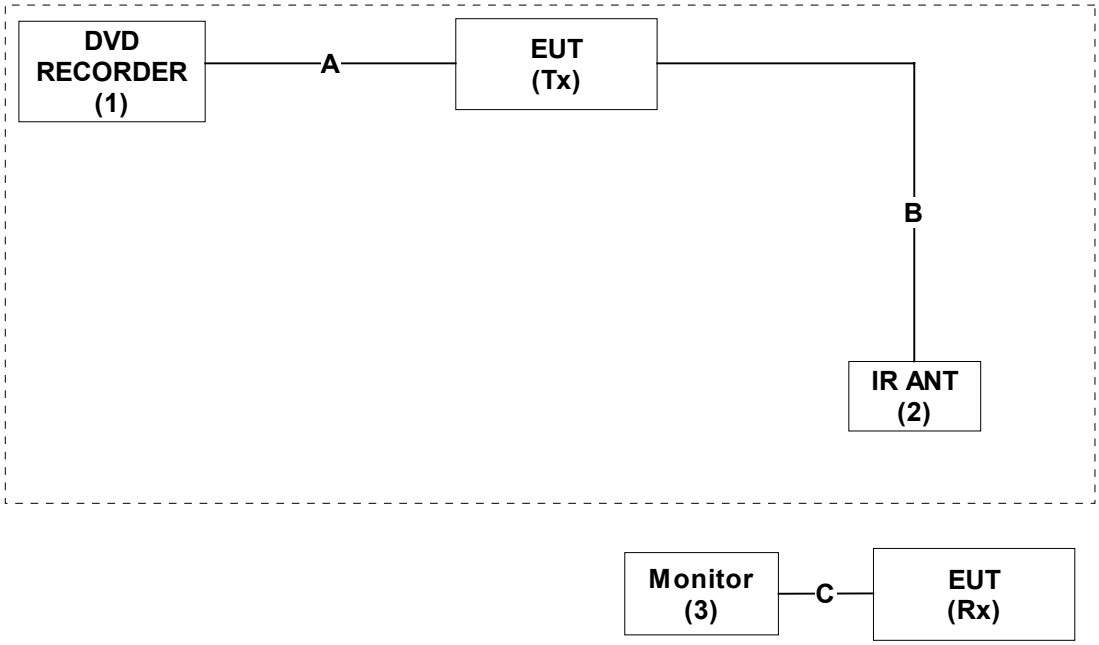
1.4. Tested System Details

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	DVD RECORDER	BenQ	JH300	99K1402200509 00001H	DoC	Non-Shielded, 1.8m
2	IR ANT	AIRWAVE	N/A	--	DoC	--
3	Monitor	THOMSON	BRAND	15LCDMO3B SN FRD100078	DoC	Non-Shielded, 1.8m
4	Remote	SANSUI	AH59-00004L	N/A	DoC	--

1.5. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	AV Cable	Shielded, 1.1m
B	IR ANT Cable	Non-Shielded, 2.9m
C	AV Cable	Shielded, 1.1m

1.6. EUT Exercise Software

1	Setup the EUT and display as shown on 1.5.
2	Turn on the power of all equipment.
3	The EUT(Tx) will start to operate.
4	The EUT(Tx) will transmit the video signal to EUT(Rx).
5	Monitor will display “video figure” on monitor in the same time.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.249 Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.209 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

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

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

1313
ILAC MRA

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2006

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

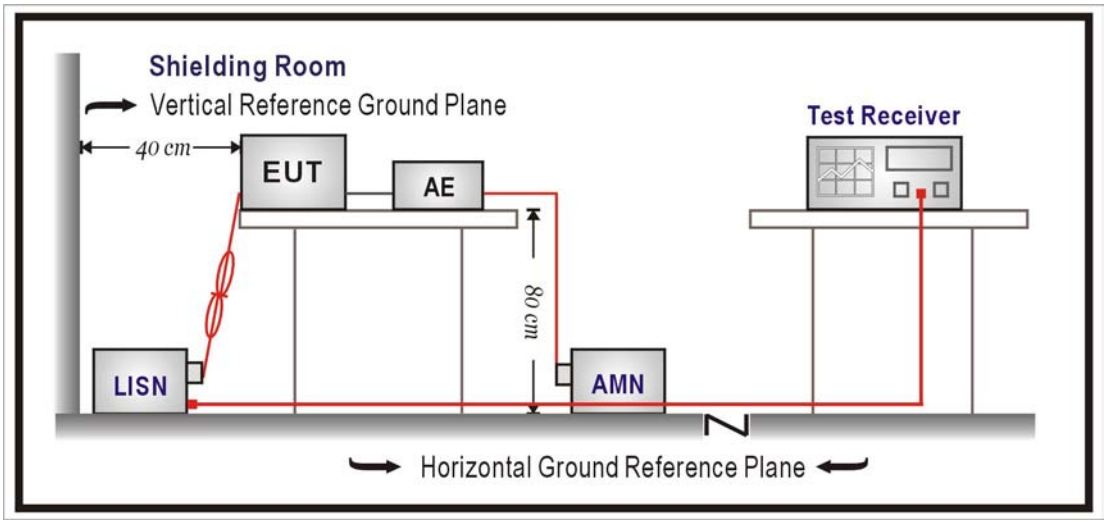
2.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
1	4-Wire ISN	R & S	ENY 41 / 837032/001	Feb., 2006	
2	Double 2-Wire ISN	R & S	ENY 22 / 835354/008	Feb., 2006	Peripherals
3	LISN	R&S	ESH3-Z5 / 836679/022	Jun., 2006	EUT
4	LISN	R & S	ESH3-Z5 / 836679/013	Dec., 2006	
5	Pulse Limiter	R & S	ESH3-Z2 / 100411	Oct., 2006	
6	Test Receiver	R & S	ESCS 30 / 100149	Oct., 2006	
7	No.3 Shielded Room			N/A	

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

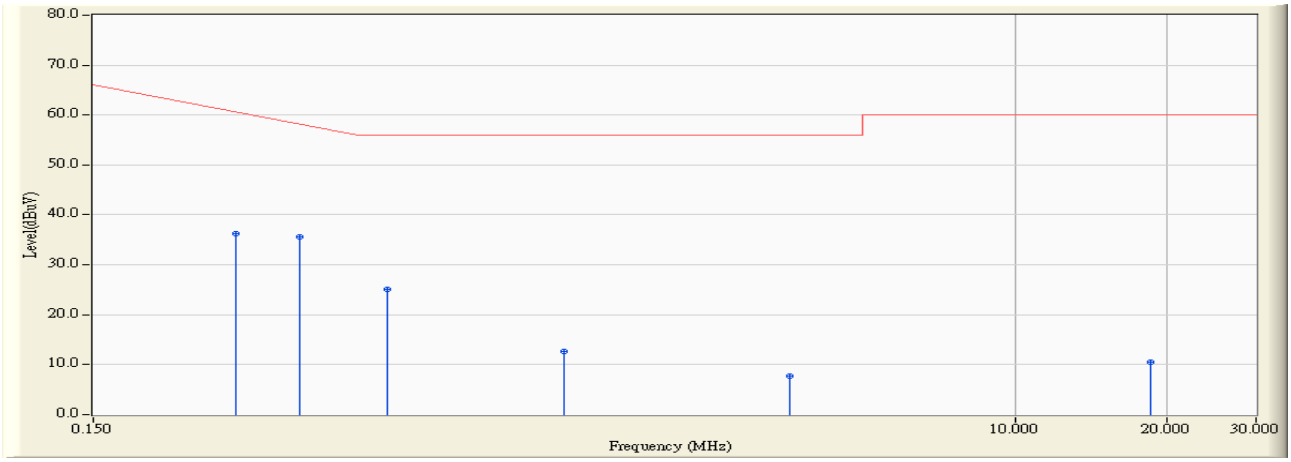
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling 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: 2005

2.6. Test Result

Site : QuieTek Shielding Room2	**Time : 2007/02/08 - 10:35**
Limit : CISPR_B_00M_QP	**Margin : 0**
EUT : 5.8GHz Video Sender	**Probe : SR3_LISN(16A) - Line1**
Power : AC 120V / 60Hz	**Note : TX (5.8G)**

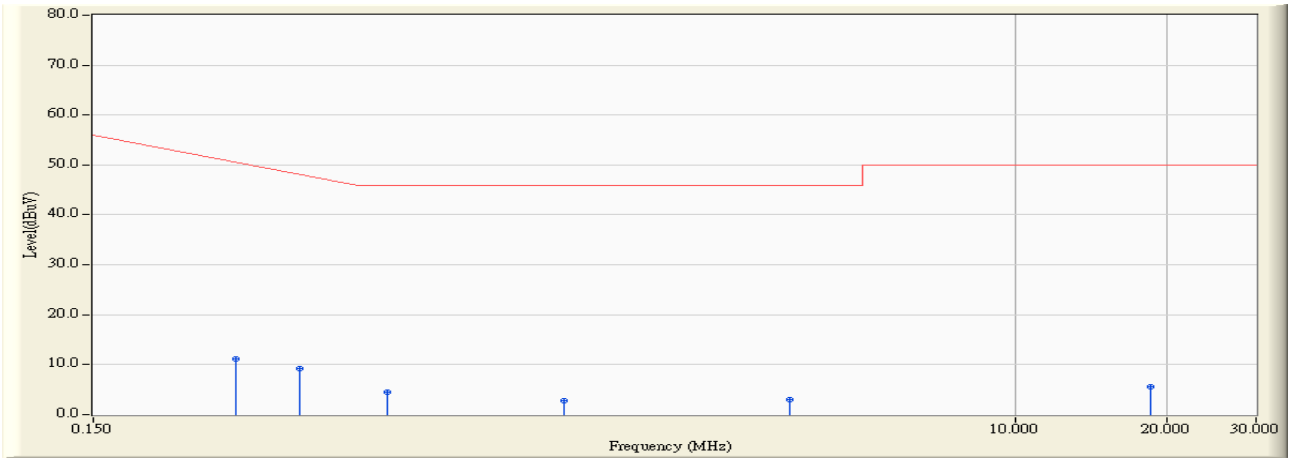


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.287	0.173	36.060	36.233	-25.853	62.086	QUASIPEAK
2	*	0.384	0.195	35.340	35.535	-23.779	59.314	QUASIPEAK
3		0.572	0.210	24.840	25.050	-30.950	56.000	QUASIPEAK
4		1.279	0.280	12.420	12.700	-43.300	56.000	QUASIPEAK
5		3.591	0.420	7.320	7.740	-48.260	56.000	QUASIPEAK
6		18.513	0.960	9.460	10.420	-49.580	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 : QuieTek Shielding Room2	**Time : 2007/02/08 - 10:35**
Limit : CISPR_B_00M_AV	**Margin : 0**
EUT : 5.8GHz Video Sender	**Probe : SR3_LISN(16A) - Line1**
Power : AC 120V / 60Hz	**Note : TX (5.8G)**

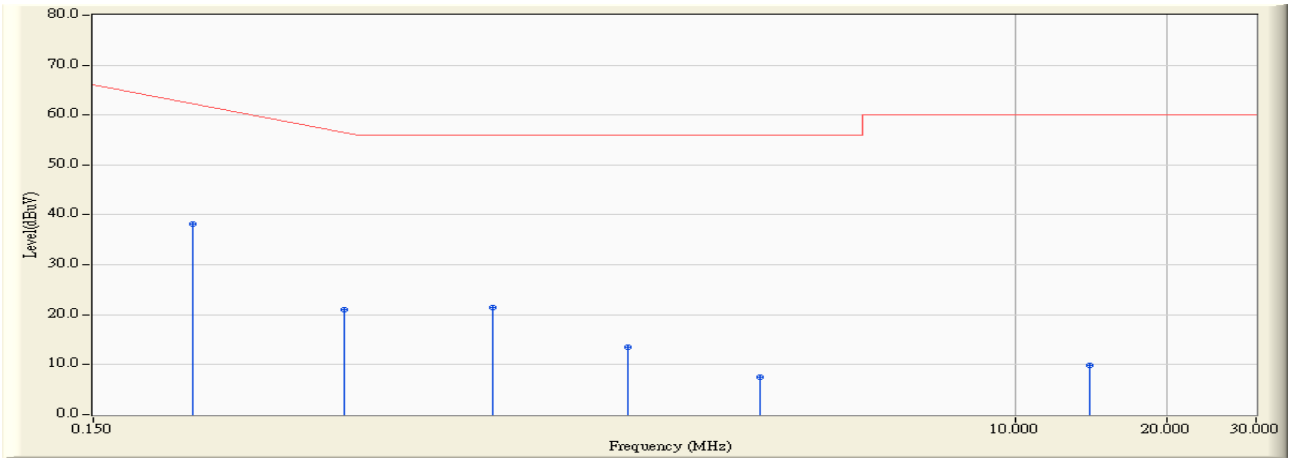


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.287	0.173	10.940	11.113	-40.973	52.086	AVERAGE
2	*	0.384	0.195	8.940	9.135	-40.179	49.314	AVERAGE
3		0.572	0.210	4.300	4.510	-41.490	46.000	AVERAGE
4		1.279	0.280	2.430	2.710	-43.290	46.000	AVERAGE
5		3.591	0.420	2.630	3.050	-42.950	46.000	AVERAGE
6		18.513	0.960	4.510	5.470	-44.530	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 : QuieTek Shielding Room2	**Time : 2007/02/08 - 10:39**
Limit : CISPR_B_00M_QP	**Margin : 0**
EUT : 5.8GHz Video Sender	**Probe : SR3_LISN(16A) - Line2**
Power : AC 120V / 60Hz	**Note : TX (5.8G)**

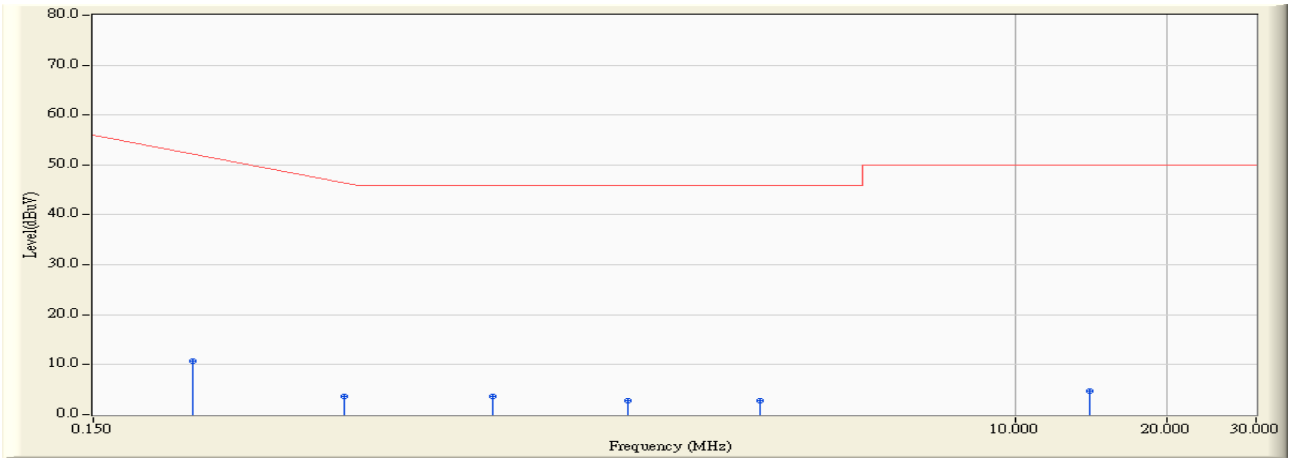


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.236	0.160	37.970	38.130	-25.413	63.543	QUASIPEAK
2		0.470	0.204	20.740	20.944	-35.913	56.857	QUASIPEAK
3		0.927	0.230	21.260	21.490	-34.510	56.000	QUASIPEAK
4		1.713	0.340	13.220	13.560	-42.440	56.000	QUASIPEAK
5		3.127	0.420	7.060	7.480	-48.520	56.000	QUASIPEAK
6		14.099	0.818	8.950	9.768	-50.232	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 : QuieTek Shielding Room2	**Time : 2007/02/08 - 10:39**
Limit : CISPR_B_00M_AV	**Margin : 0**
EUT : 5.8GHz Video Sender	**Probe : SR3_LISN(16A) - Line2**
Power : AC 120V / 60Hz	**Note : TX (5.8G)**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.236	0.160	10.650	10.810	-42.733	53.543	AVERAGE
2		0.470	0.204	3.530	3.734	-43.123	46.857	AVERAGE
3	*	0.927	0.230	3.340	3.570	-42.430	46.000	AVERAGE
4		1.713	0.340	2.410	2.750	-43.250	46.000	AVERAGE
5		3.127	0.420	2.350	2.770	-43.230	46.000	AVERAGE
6		14.099	0.818	3.890	4.708	-45.292	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. Radiated Emission

3.1. Test Equipment

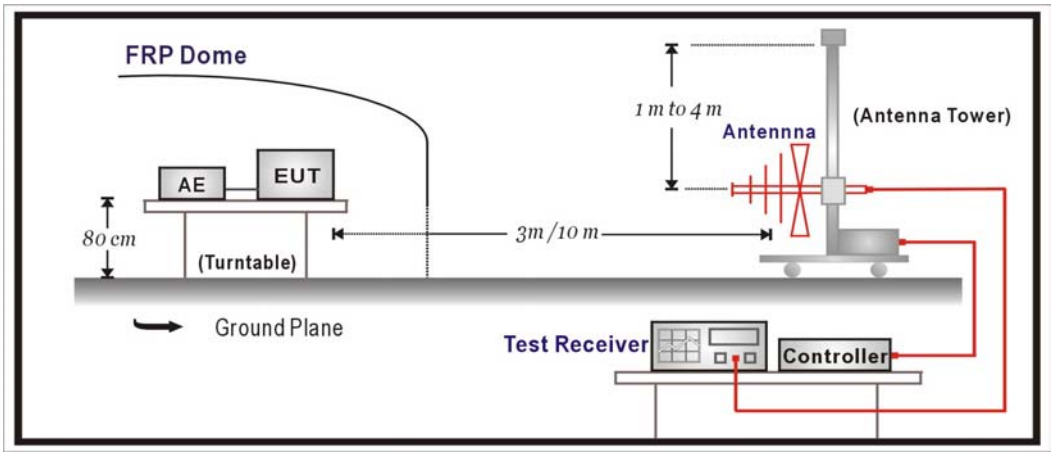
The following test equip

Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/018	Jun., 2006
2	X	Spectrum Analyzer	Advantest	R3162 / 91700283	N/A
3	X	Pre-Amplifier	Advantest	BB525C / N/A	N/A
4	X	Bilog Antenna	Schaffner	CBL6112B / 2673	Sep., 2006
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2006
8	No.3 OATS				Sep., 2006

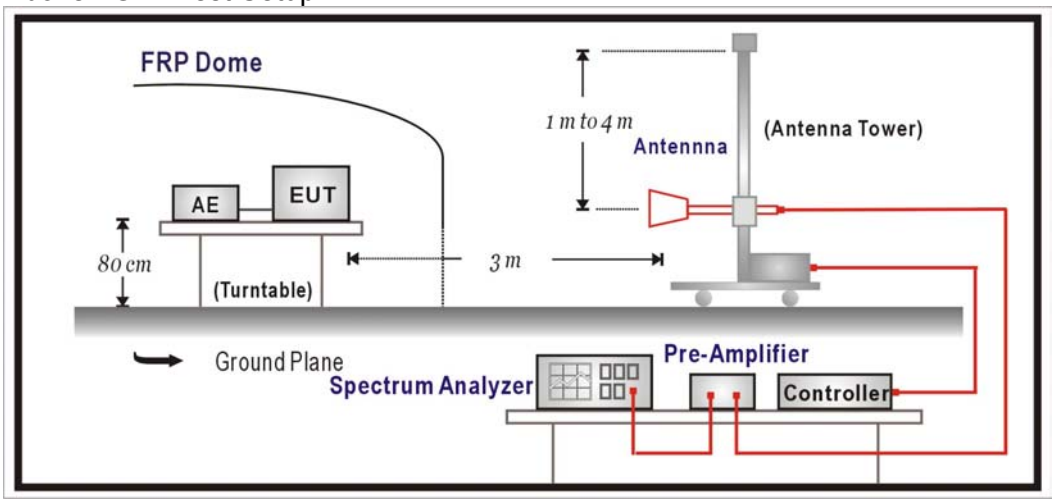
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark “X” test instruments are used to measure the final test results.

3.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



3.3. Limits

➢ Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.249 Limits				
Fundamental Frequency MHz	Field Strength of Fundamental		Field Strength of Harmonics	
	mV/m	dBuV/m	uV/m	dBuV/m
902-928	50	94	500	54
2400-2483.5	50	94	500	54
5725-5875	50	94	500	54

Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

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. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

➢ Spurious electric field strength limits

FCC Part 15 Subpart C Paragraph 15.209 Limits			
Frequency MHz	uV/m	dBuV/m	Measurement distance (meter)
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

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.

3.4. 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.

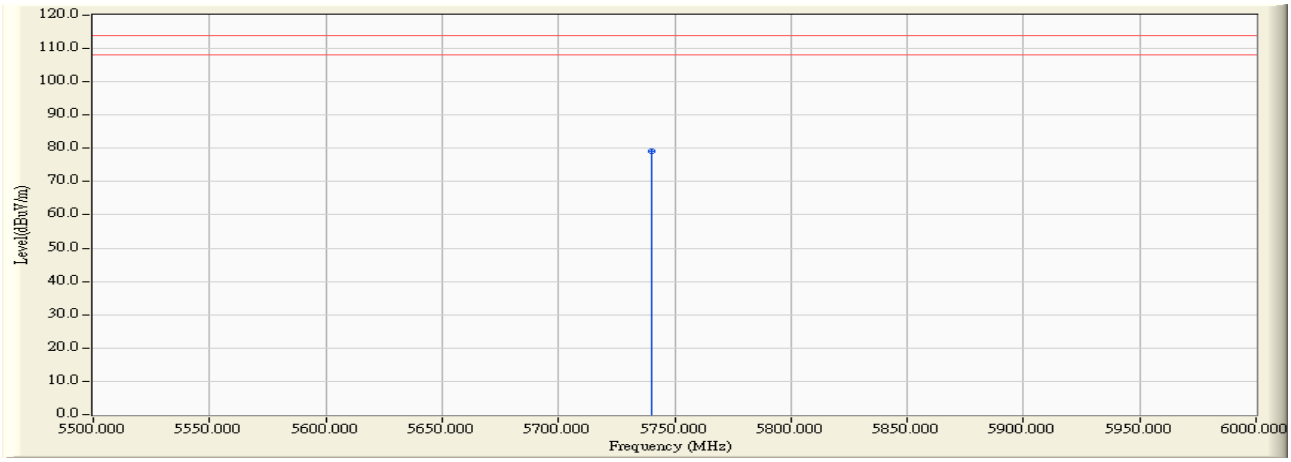
3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.209 and Paragraph 15.249: 2005

3.6. Test Result

Fundamental：

Site : CB3	**Time : 2007/02/06 - 20:57**
Limit : FCC_SpartC_15.249_F_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : AC 120V / 60Hz	**Note : CH1**

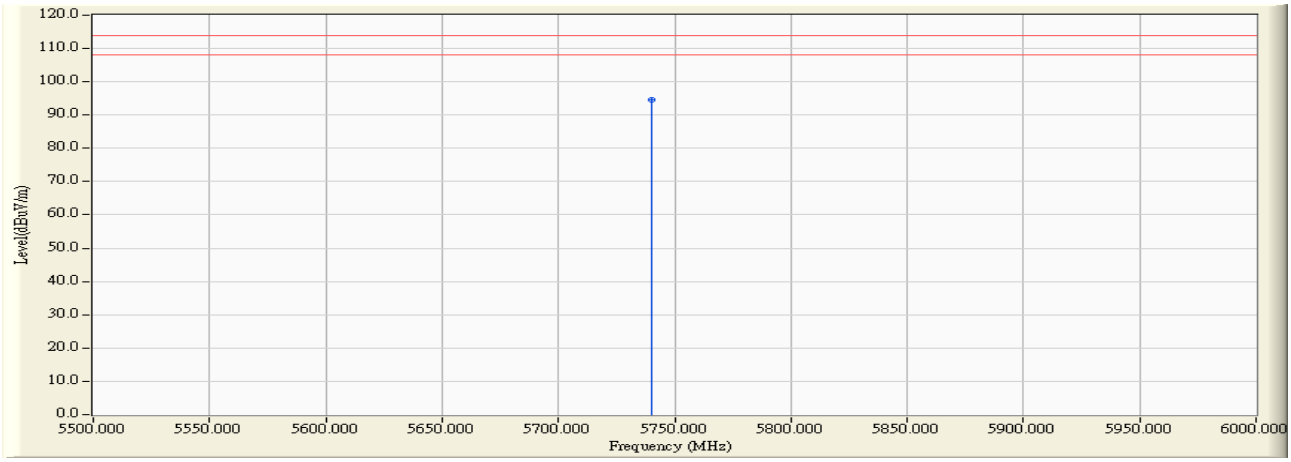


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5740.250	37.295	41.740	79.035	-34.965	114.000	94.000	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 20:57**
Limit : FCC_SpartC_15.249_F_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH1**

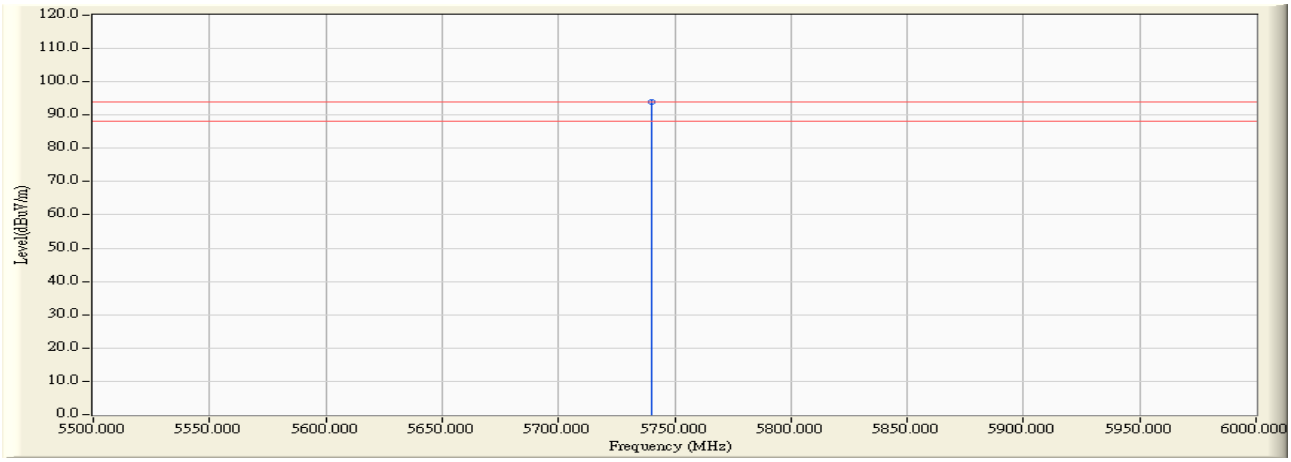


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5740.250	35.895	58.770	94.665	-19.335	114.000	94.000	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 21:23**
Limit : FCC_SpartC_15.249_F_03M_AV	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH1**

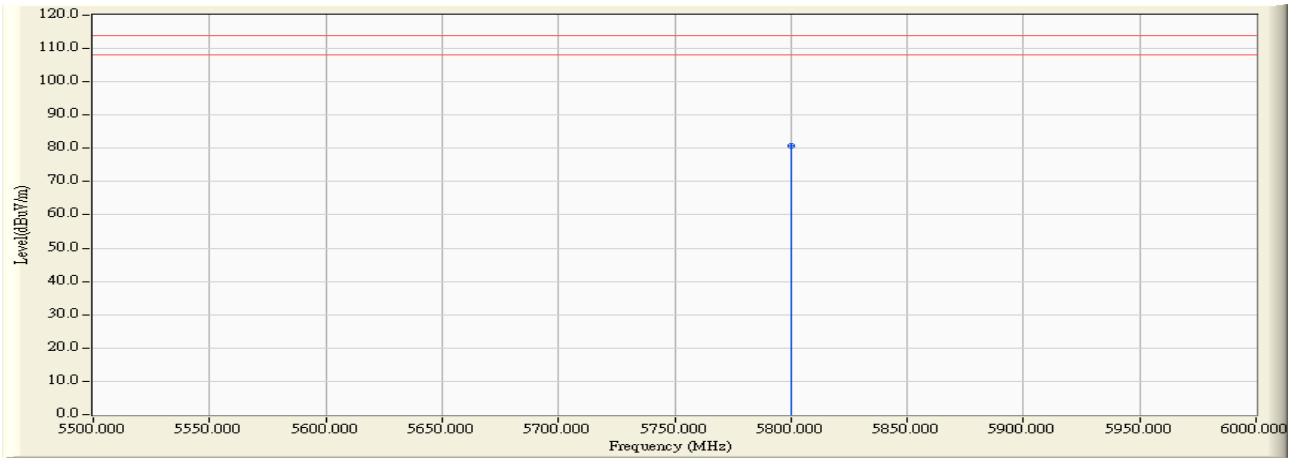


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5740.250	35.895	58.040	93.935	-0.065	114.000	94.000	AVERAGE

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

Site : CB3	**Time : 2007/02/06 - 21:09**
Limit : FCC_SpartC_15.249_F_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : AC 120V / 60Hz	**Note : CH4**

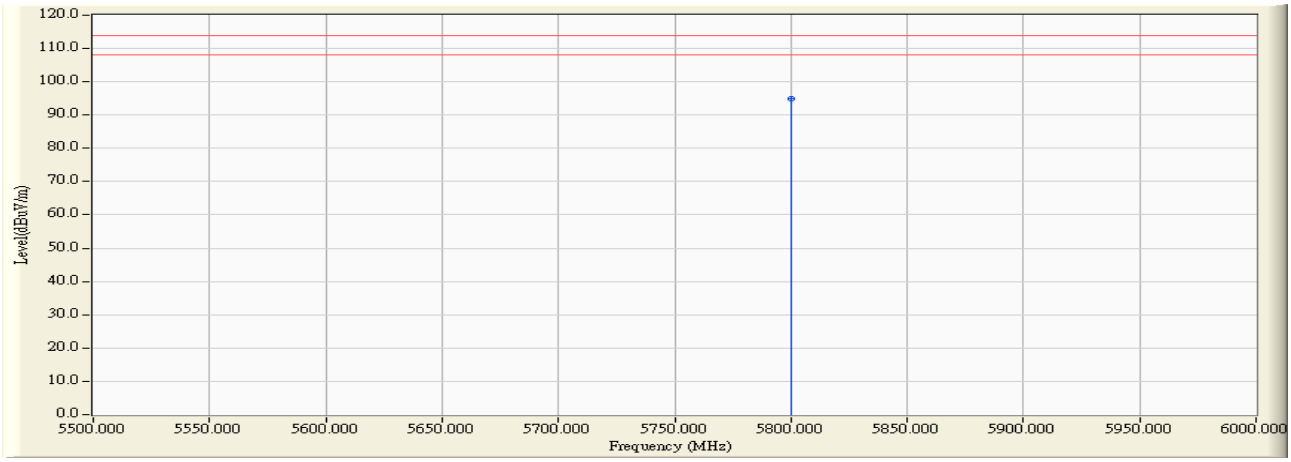


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5800.350	37.332	43.310	80.641	-33.359	114.000	94.000	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 21:13**
Limit : FCC_SpartC_15.249_F_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH4**

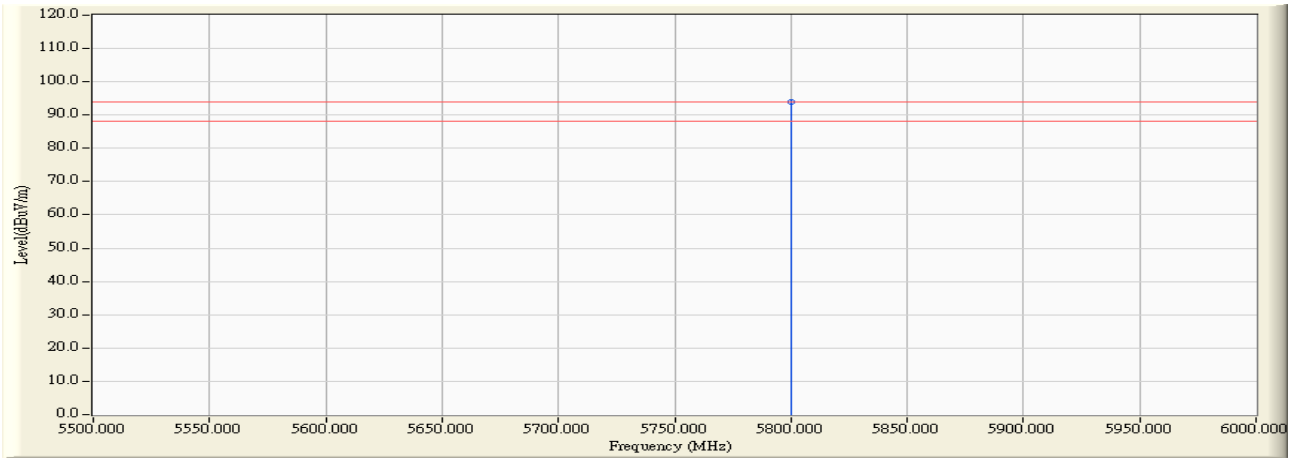


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5800.250	35.991	58.850	94.841	-19.159	114.000	94.000	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 21:24**
Limit : FCC_SpartC_15.249_F_03M_AV	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH4**

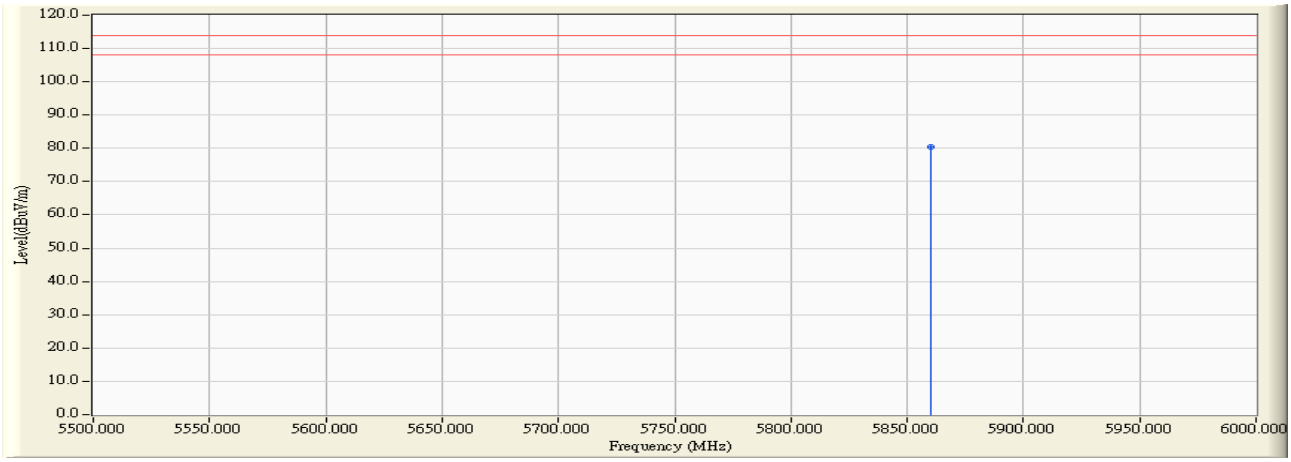


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5800.350	35.991	57.920	93.911	-0.089	114.000	94.000	AVERAGE

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.

Site : CB3	**Time : 2007/02/06 - 21:18**
Limit : FCC_SpartC_15.249_F_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : AC 120V / 60Hz	**Note : CH7**

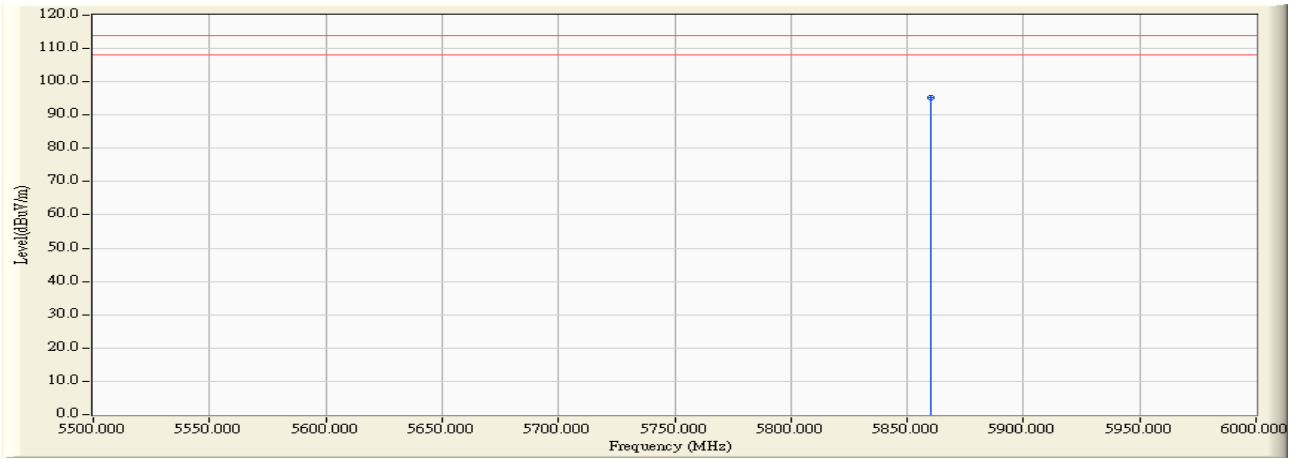


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5860.350	36.914	43.460	80.374	-33.626	114.000	94.000	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 21:21**
Limit : FCC_SpartC_15.249_F_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH7**

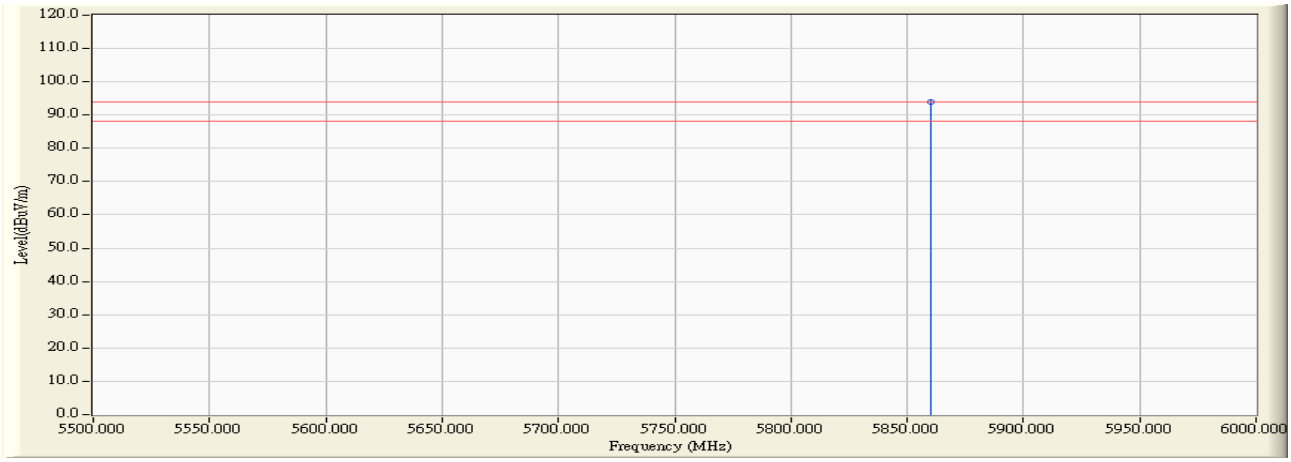


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5860.350	36.087	58.990	95.077	-18.923	114.000	94.000	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 21:25**
Limit : FCC_SpartC_15.249_F_03M_AV	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH7**



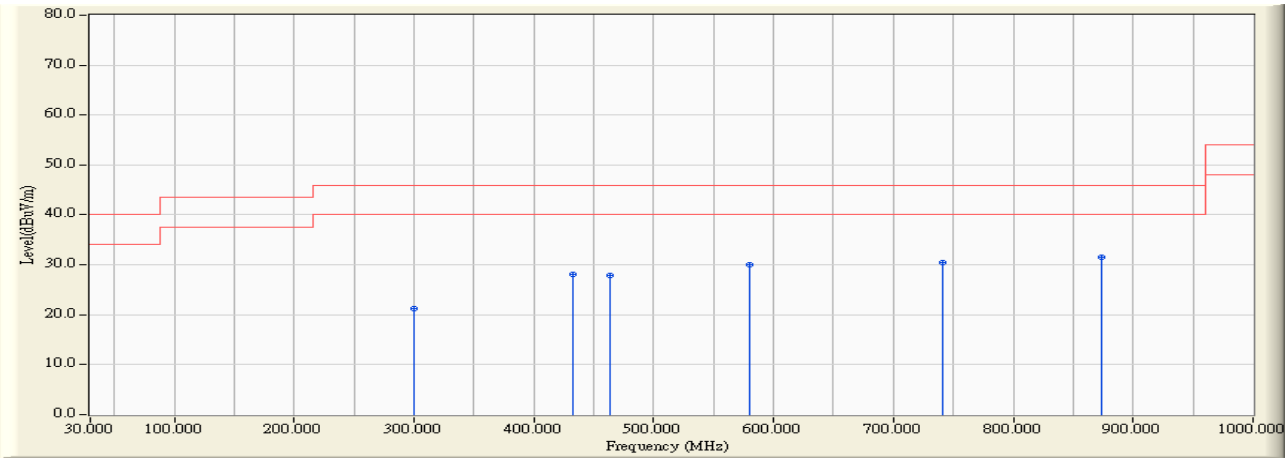
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	5860.350	36.087	57.890	93.977	-0.023	114.000	94.000	AVERAGE

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.

30 MHz-1 GHz Spurious:

Site : CB3	**Time : 2007/02/07 - 09:53**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_30-1G(200605) - HORIZONTAL**
Power : AC 120V / 60Hz	**Note : CH4TX**

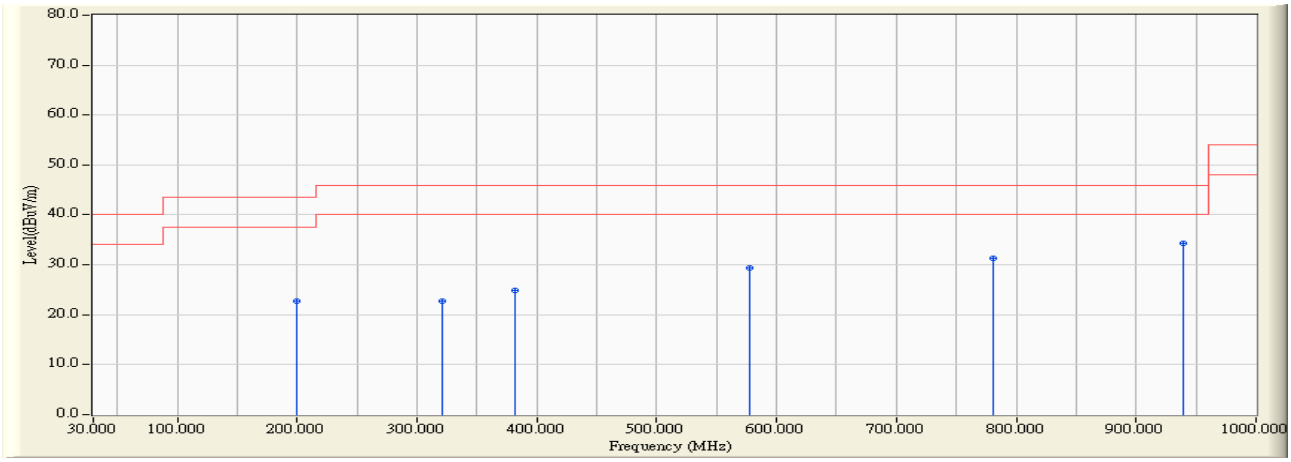


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		300.200	-3.511	24.698	21.187	-24.813	46.000	PEAK	0.000	0.000
2		432.385	1.904	26.264	28.168	-17.832	46.000	PEAK	0.000	0.000
3		463.487	3.239	24.647	27.886	-18.114	46.000	PEAK	0.000	0.000
4		580.120	5.369	24.709	30.078	-15.922	46.000	PEAK	0.000	0.000
5		741.463	4.628	25.752	30.380	-15.620	46.000	PEAK	0.000	0.000
6	*	873.647	5.686	25.827	31.514	-14.486	46.000	PEAK	0.000	0.000

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

Site : CB3	**Time : 2007/02/07 - 09:54**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_30-1G(200605) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH4TX**



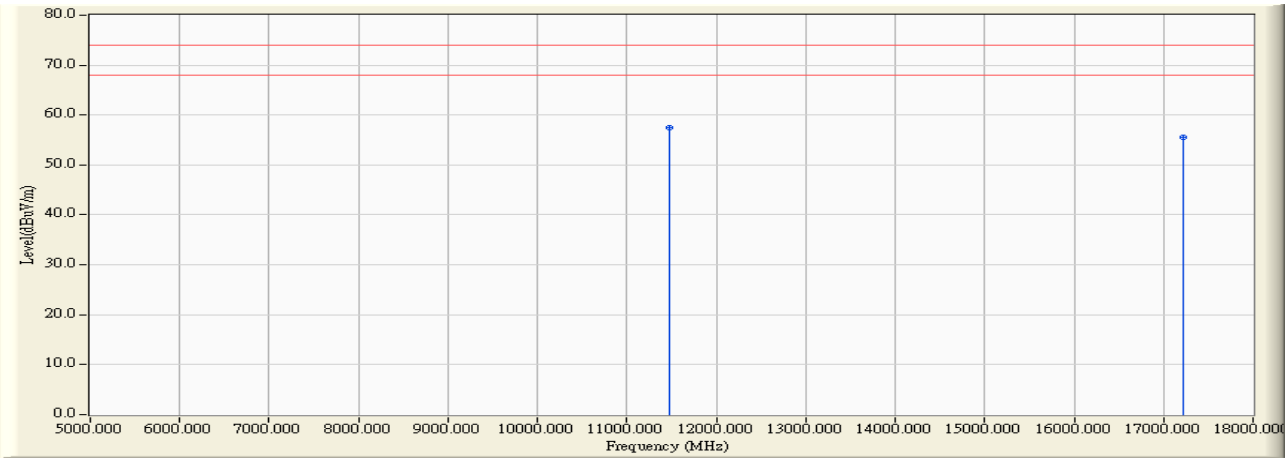
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		199.118	-3.417	26.078	22.660	-20.840	43.500	PEAK	0.000	0.000
2		321.583	-4.520	27.346	22.826	-23.174	46.000	PEAK	0.000	0.000
3		381.844	-0.590	25.380	24.790	-21.210	46.000	PEAK	0.000	0.000
4		578.176	4.216	25.119	29.335	-16.665	46.000	PEAK	0.000	0.000
5		780.341	5.743	25.652	31.395	-14.605	46.000	PEAK	0.000	0.000
6	*	939.740	9.014	25.225	34.239	-11.761	46.000	PEAK	0.000	0.000

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

Spurious and Harmonics Emission：

Site : CB3	**Time : 2007/02/06 - 15:59**
Limit : FCC_SpartC_15.249_H_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : AC 120V / 60Hz	**Note : CH1- TX**

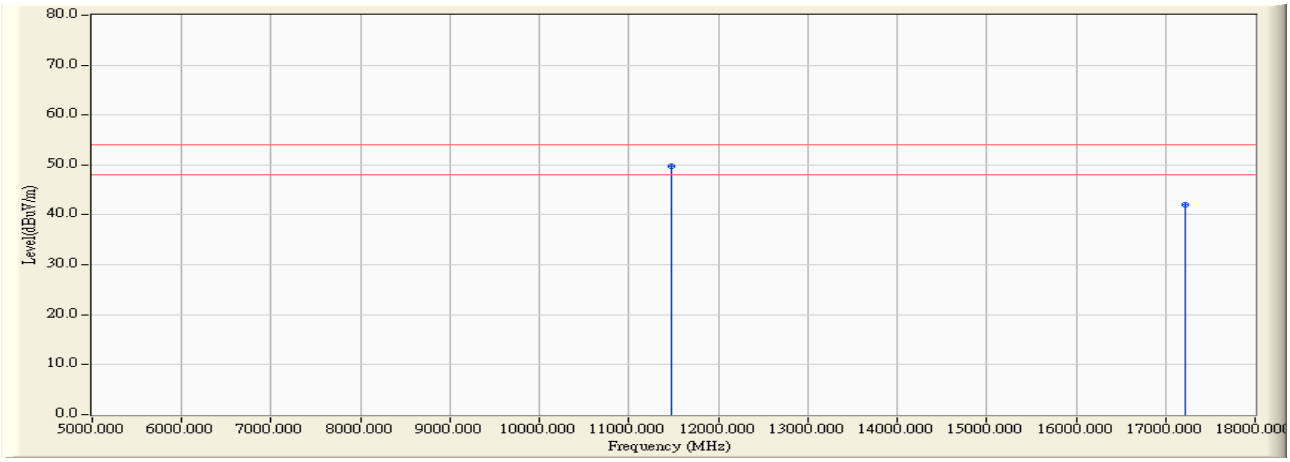


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	11480.660	17.290	40.120	57.409	-16.561	73.970	53.970	PEAK
2		17220.500	26.703	28.840	55.543	-18.427	73.970	53.970	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 16:11**
Limit : FCC_SpartC_15.249_H_03M_AV	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : AC 120V / 60Hz	**Note : CH1- TX**

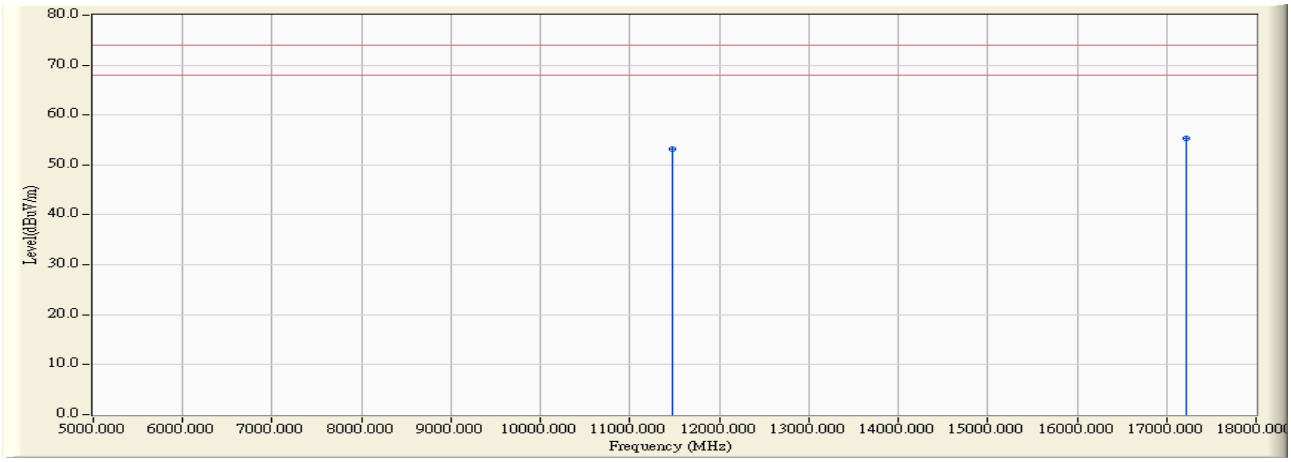


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	11480.660	17.290	32.460	49.749	-4.221	73.970	53.970	AVERAGE
2		17220.500	26.703	15.400	42.103	-11.867	73.970	53.970	AVERAGE

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.

Site : CB3	**Time : 2007/02/06 - 16:06**
Limit : FCC_SpartC_15.249_H_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH1- TX**

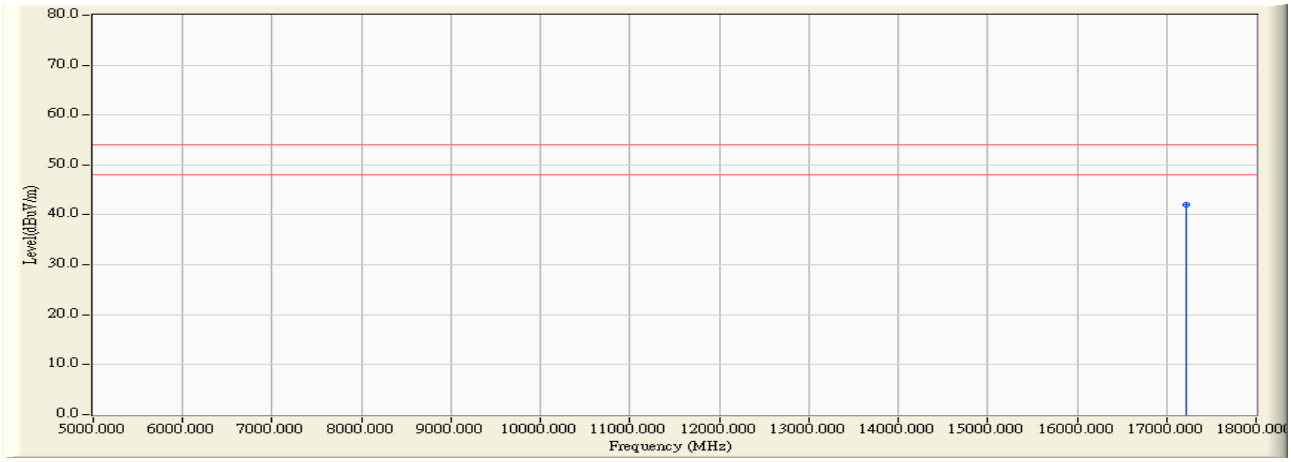


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1		11480.560	18.095	35.190	53.285	-20.685	73.970	53.970	PEAK
2	*	17220.500	26.703	28.640	55.343	-18.627	73.970	53.970	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 16:12**
Limit : FCC_SpartC_15.249_H_03M_AV	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH1- TX**

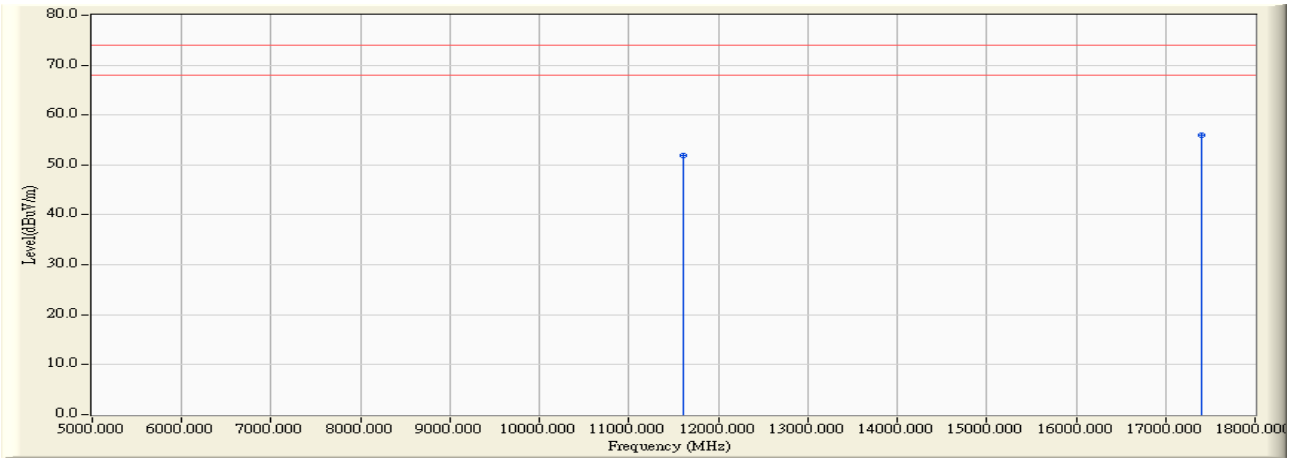


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	17220.500	26.703	15.430	42.133	-11.837	73.970	53.970	AVERAGE

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.

Site : CB3	**Time : 2007/02/06 - 16:41**
Limit : FCC_SpartC_15.249_H_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : AC 120V / 60Hz	**Note : CH4- TX**

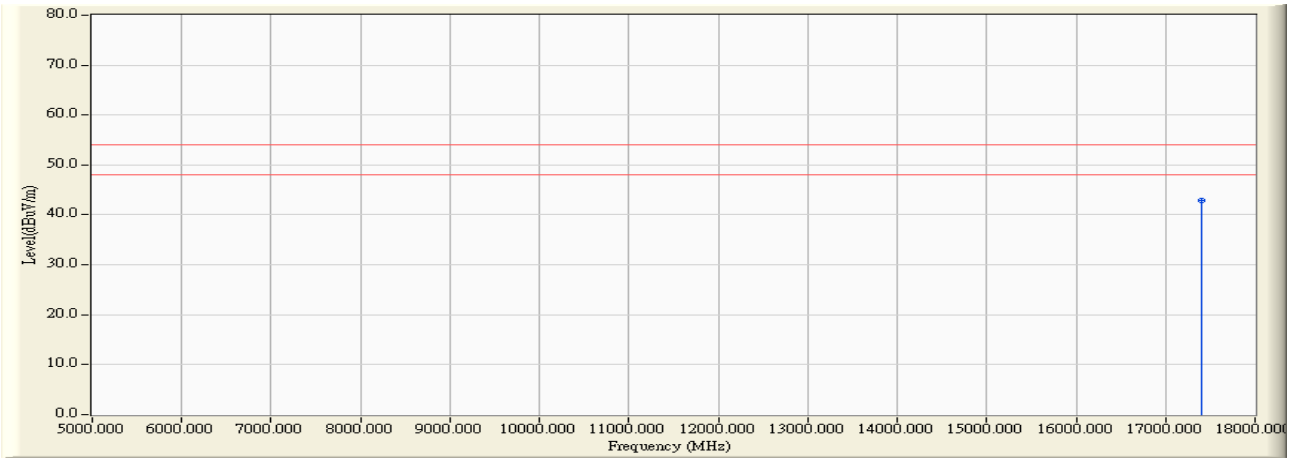


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1		11600.500	16.977	34.860	51.838	-22.132	73.970	53.970	PEAK
2	*	17400.700	26.972	29.100	56.073	-17.897	73.970	53.970	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 16:51**
Limit : FCC_SpartC_15.249_H_03M_AV	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL**
Power : AC 120V / 60Hz	**Note : CH4- TX**

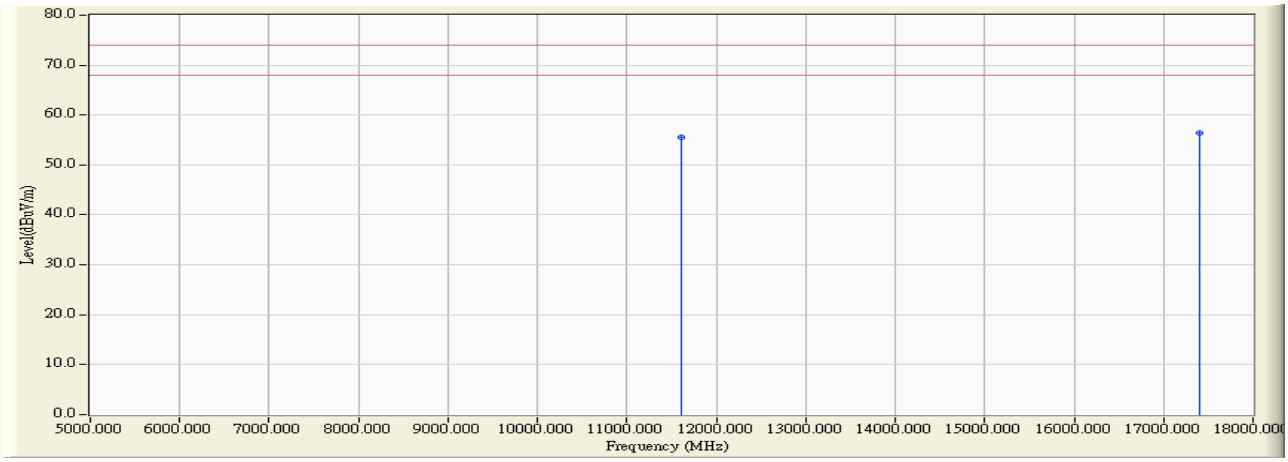


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	17400.650	26.973	15.920	42.893	-11.077	73.970	53.970	AVERAGE

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.

Site : CB3	**Time : 2007/02/06 - 16:49**
Limit : FCC_SpartC_15.249_H_03M_PK	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH4- TX**

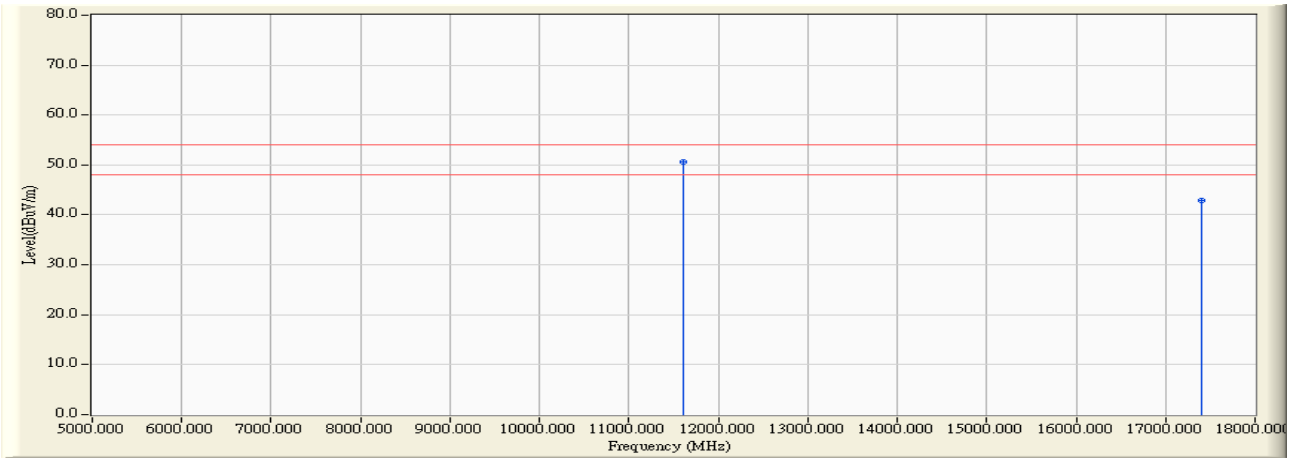


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1		11600.600	18.351	37.140	55.490	-18.480	73.970	53.970	PEAK
2	*	17400.700	26.972	29.390	56.363	-17.607	73.970	53.970	PEAK

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.

Site : CB3	**Time : 2007/02/06 - 16:52**
Limit : FCC_SpartC_15.249_H_03M_AV	**Margin : 6**
EUT : 5.8GHz Video Sender	**Probe : FCC_RF_1G-18G(2005-3) - VERTICAL**
Power : AC 120V / 60Hz	**Note : CH4- TX**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Detector Type
1	*	11600.600	18.351	32.310	50.660	-3.310	73.970	53.970	AVERAGE
2		17400.700	26.972	15.920	42.893	-11.077	73.970	53.970	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. Band Edge

4.1. Test Equipment

The following test equipment are used during the test:

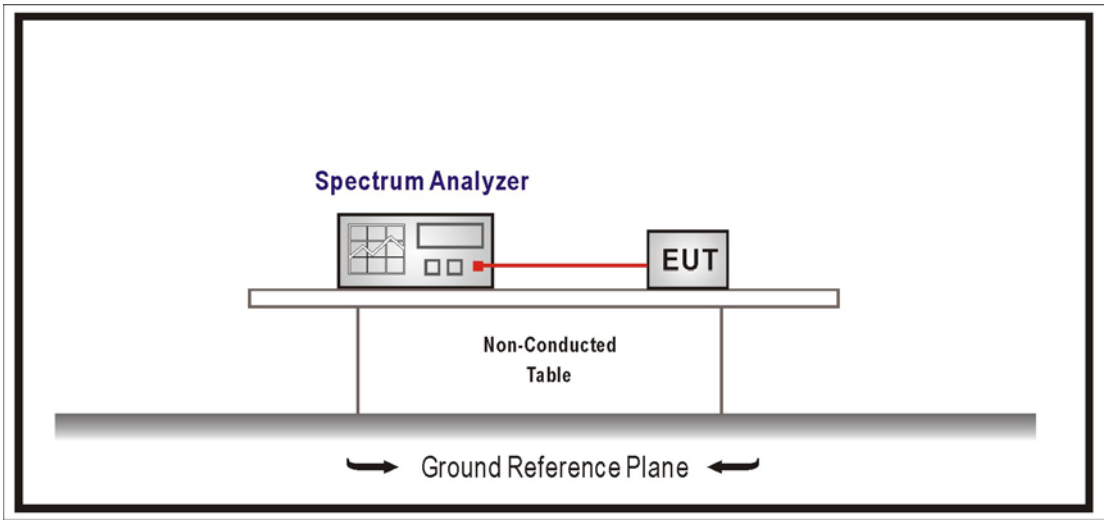
RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2006
2	No.1 OATS				Sep., 2006
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
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	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2006
7	No.1 OATS				Sep., 2006

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

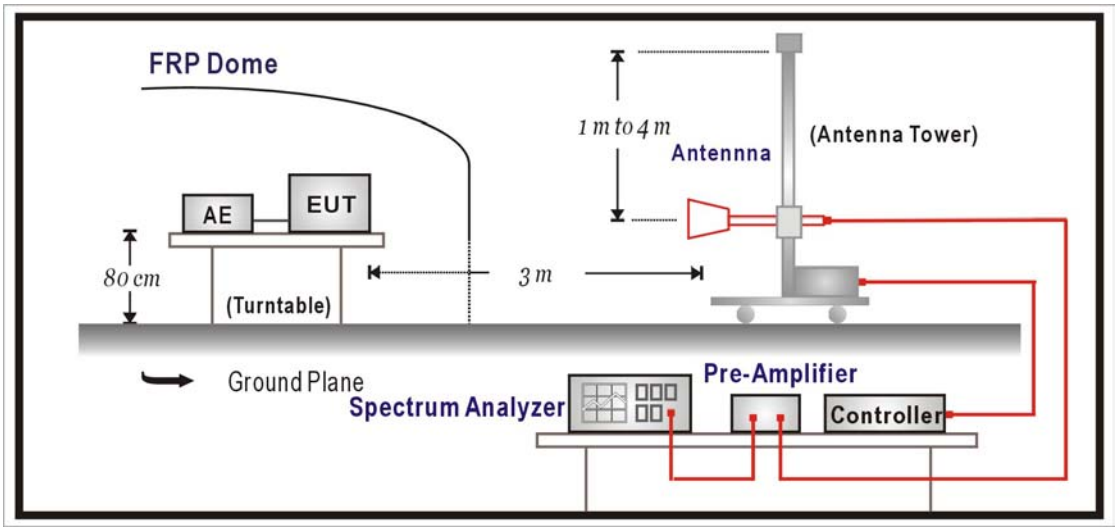
2. Mark “X” test instruments are used to measure the final test results.

4.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



4.3. 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 50 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)).

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 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.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.249: 2005

4.6. Test Result

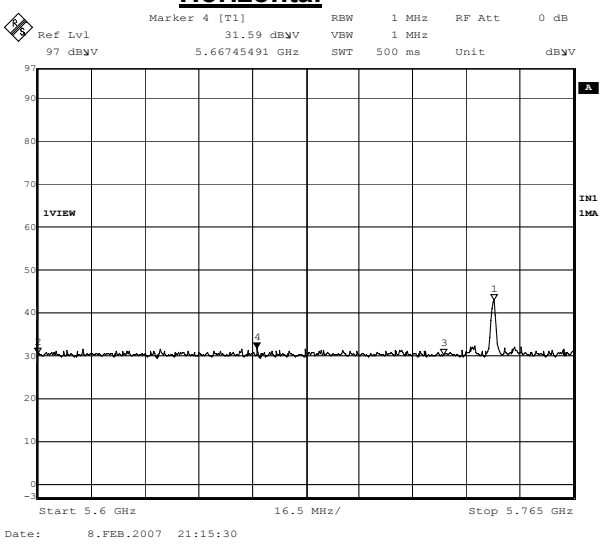
Product	5.8GHz Video Sender		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/02/08	Test Site	No.1 OATS

5.8 GHz

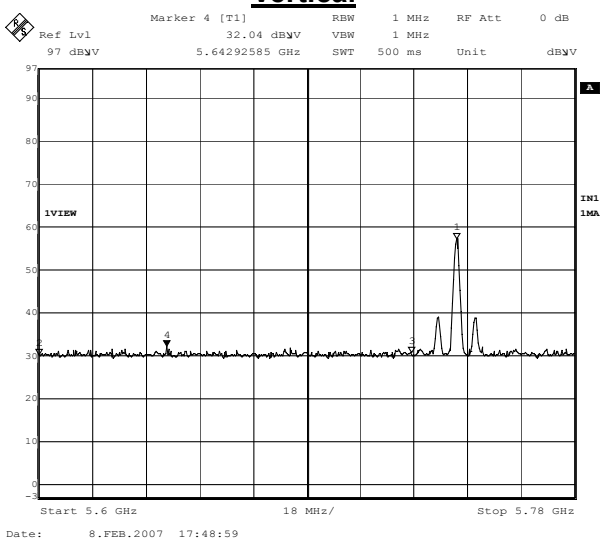
RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Peak Limit (dBuV/m)	Result
1 (Horizontal)	5667.450	31.590	37.153	00.00	68.742	74.00	Pass
1(Vertical)	5642.900	32.040	35.676	00.00	67.717	74.00	Pass

Horizontal



Vertical



Note: 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.

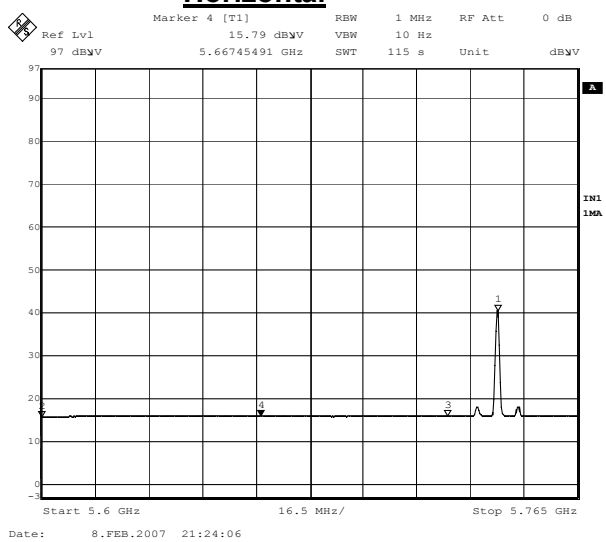
Product	5.8GHz Video Sender		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/02/08	Test Site	No.1 OATS

5.8 GHz

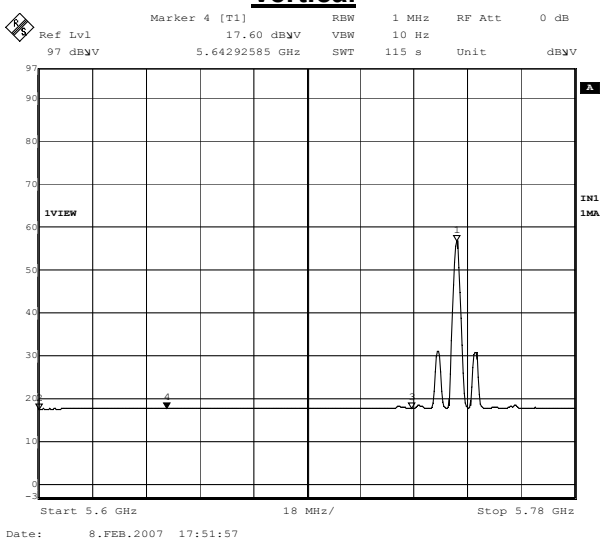
RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Horizontal)	5667.450	15.790	37.153	00.00	52.942	54.00	Pass
1(Vertical)	5642.900	17.600	35.676	00.00	53.277	54.00	Pass

Horizontal



Vertical



Note: 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.

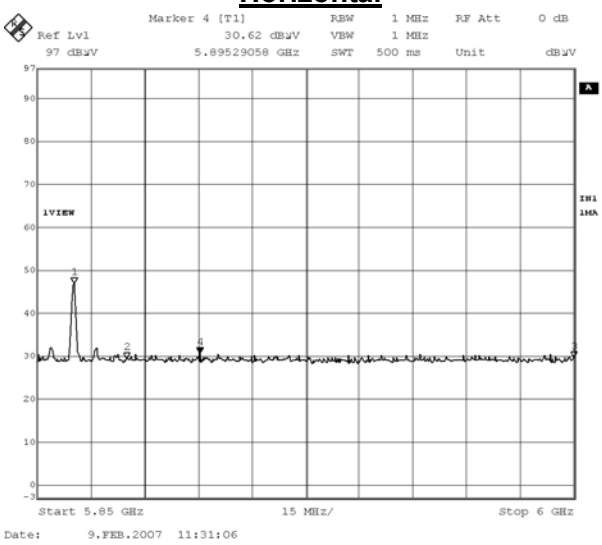
Product	5.8GHz Video Sender		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/02/08	Test Site	No.1 OATS

5.8 GHz

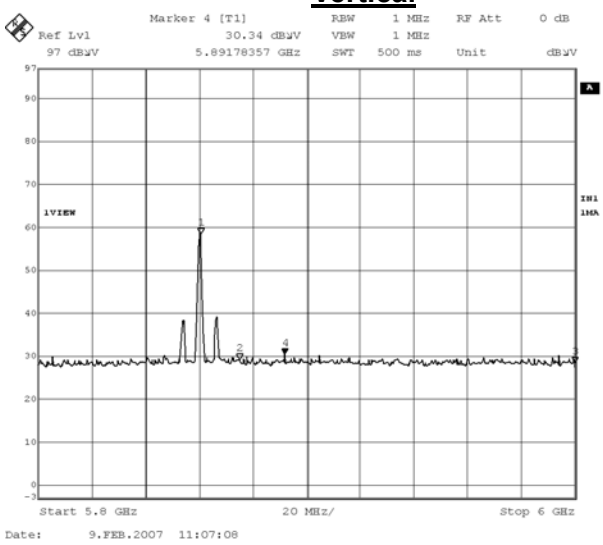
RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Peak Limit (dBuV/m)	Result
13 (Horizontal)	5895.300	30.620	36.733	00.00	67.353	74.00	Pass
13 (Vertical)	5891.800	30.340	36.210	00.00	66.550	74.00	Pass

Horizontal



Vertical



Note: 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.

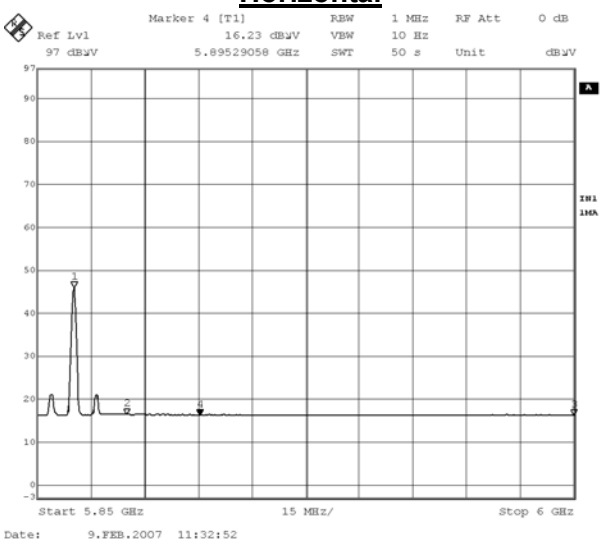
Product	5.8GHz Video Sender		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/02/08	Test Site	No.1 OATS

5.8 GHz

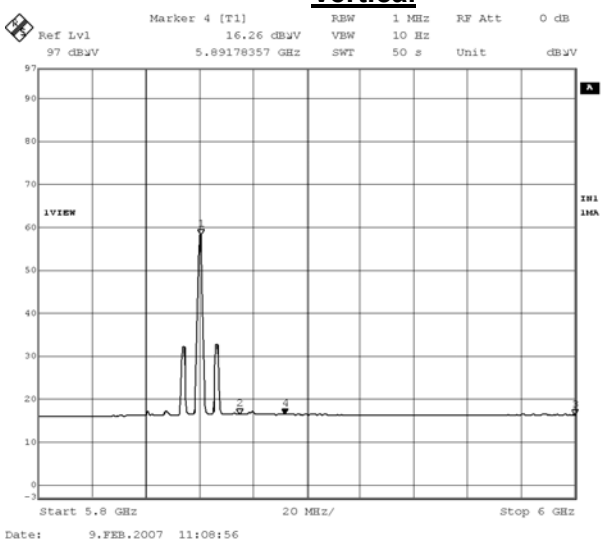
RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Average Limit (dBuV/m)	Result
13 (Horizontal)	5895.300	16.230	36.733	00.00	52.963	54.00	Pass
13 (Vertical)	5891.800	16.260	36.210	00.00	52.470	54.00	Pass

Horizontal



Vertical



Note: 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.