



Test Report

Product Name : Wireless color camera
Model No. : TTA-49T
FCC ID. : O6LTTA-49T900

Applicant : TRANWO TECHNOLOGY CORP
Address : 6F., No.49, Guangming 6th Rd., JubeiCity, Hsinchu,
Taiwan, R.O.C.

Date of Receipt : 2006/05/26
Issued Date : 2006/06/06
Report No. : 066H006-RF-US-P07V01

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 : 2006/03/28

Report No. : 066H006-RF-US-P07V01

Quietek

Product Name : Wireless color camera
Applicant : TRANWO TECHNOLOGY CORP
Address : 6F., No.49, Guangming 6th Rd., JubeiCity, Hsinchu, Taiwan,
R.O.C.
Manufacturer : TRANWO TECHNOLOGY CORP
Model No. : TTA-49T
FCC ID. : O6LTTA-49T900
Rated Voltage : AC 120 V / 60 Hz
EUT Voltage : AC 120 V / 60 Hz
Trade Name : TRANWO
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 : *Louis Hsu*

(Louis Hsu)

Approved By : *Gene Chang*

(Gene Chang)

TABLE OF CONTENTS

Description	Page
1. General Information	4
1.1. EUT Description	4
1.2. Operation Description	5
1.3. Test Mode	6
1.4. Tested System Details	7
1.5. Configuration of tested System	7
1.6. EUT Exercise Software	7
1.7. Test Facility	8
2. Conducted Emission	9
2.1. Test Equipment	9
2.2. Test Setup	9
2.3. Limits	10
2.4. Test Procedure	10
2.5. Test Specification	10
2.6. Test Result	11
2.7. Test Photo	15
3. Radiated Emission	16
3.1. Test Equipment	16
3.2. Test Setup	16
3.3. Limits	17
3.4. Test Procedure	18
3.5. Test Specification	18
3.6. Test Result	19
3.7. Test Photo	35
4. Band Edge	37
4.1. Test Equipment	37
4.2. Test Setup	38
4.3. Limits	39
4.4. Test Procedure	39
4.5. Test Specification	39
4.6. Test Result	40
Attachement	42
EUT Photograph	42

1. General Information

1.1. EUT Description

Product Name	Wireless color camera
Trade Name	TRANWO
Model No.	TTA-49T
Frequency Range	907~920MHz
Channel Number	2
Type of Modulation	FM
Channel Control	Manual
Antenna Type	Soldered on PCB

Component	
Power Adapter(49T)	AHEAD, ADA-0600400 Input: AC 120V/60Hz, 6W Output: DC 6V, 400mA Cable Out: Non-Shielded, 1.8m

Working Frequency of Each Channel			
Channel	Frequency	Channel	Frequency
001	907 MHz	002	920 MHz

Note:

1. This device is from 907MHz to 920MHz Wireless color camera which includes 907MHz and 920MHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249.
3. 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.
4. 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 066H006-RF-US-P01V02 under Declaration of Conformity.

1.2. Operation Description

The EUT is Wireless color camera. The operation frequency is from 907 MHz to 920 MHz with FM modulation. Two manually selectable channels were built in the EUT. The signal will be transmitted through 907MHz or 920MHz FM RF signal from the soldered on PCB antenna from EUT to receiver. DC 6V 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:

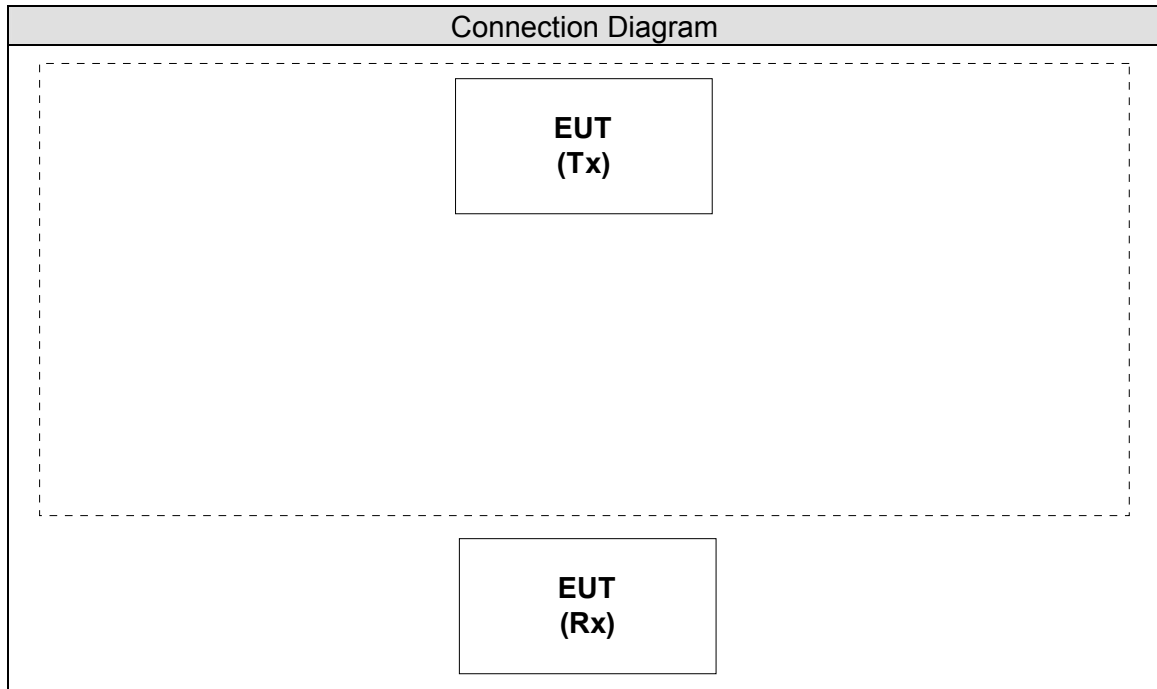
Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
TX	Mode 1: Transmit

1.4. Tested System Details

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

N/A

1.5. Configuration of tested System



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



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

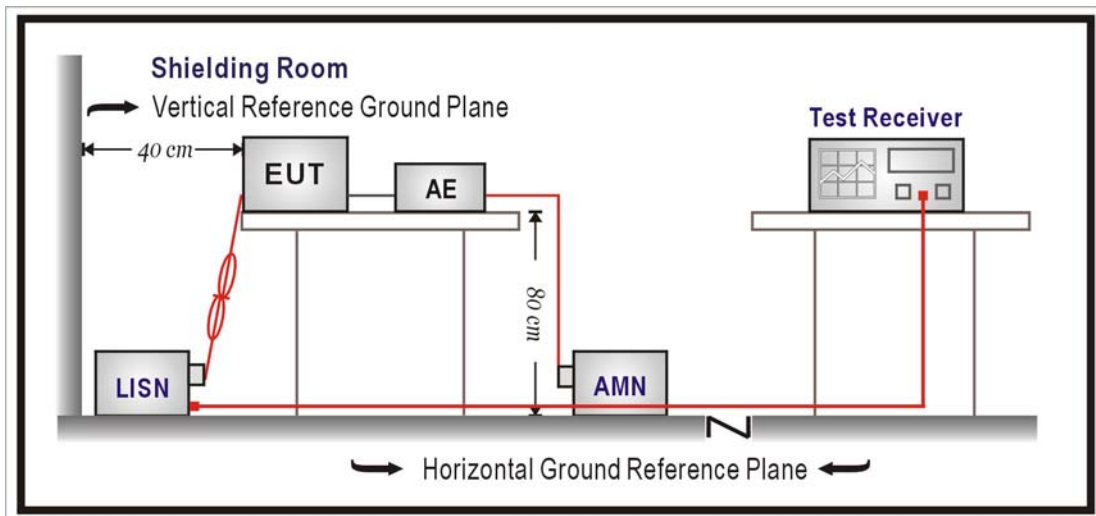
2.1. Test Equipment

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., 2005	EUT
4	LISN	R & S	ESH3-Z5 / 836679/013	Dec., 2005	
5	Pulse Limiter	R & S	ESH3-Z2 / 100411	Oct., 2005	
6	Test Receiver	R & S	ESCS 30 / 100149	Oct., 2005	
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

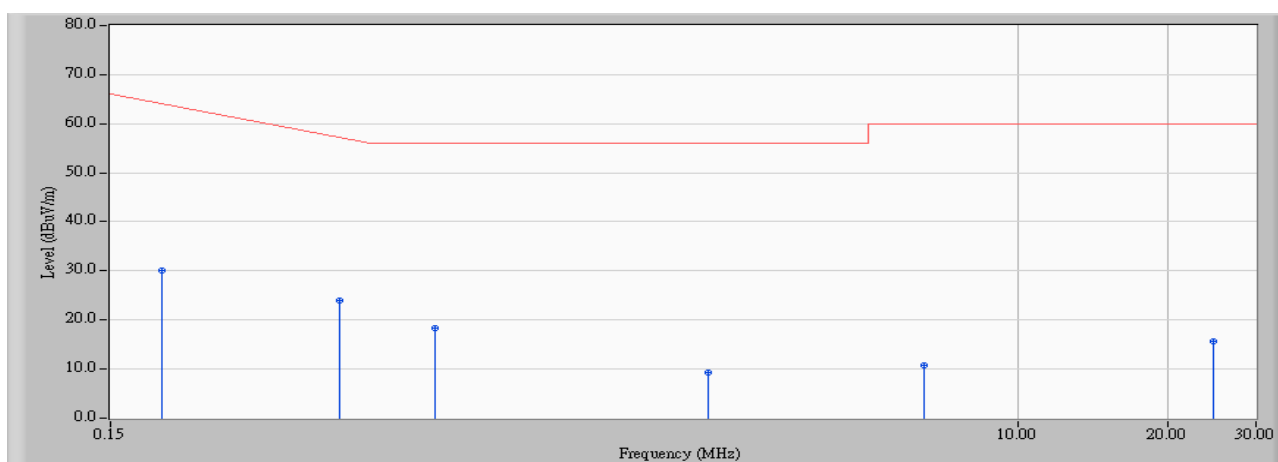
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling 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 Room 2	Time : 2006/06/01 - 11:34
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Wireless color camera	Probe : QTK-LISN-SR2 - Line1
Power : AC120V/60Hz	Note : TTA-49T

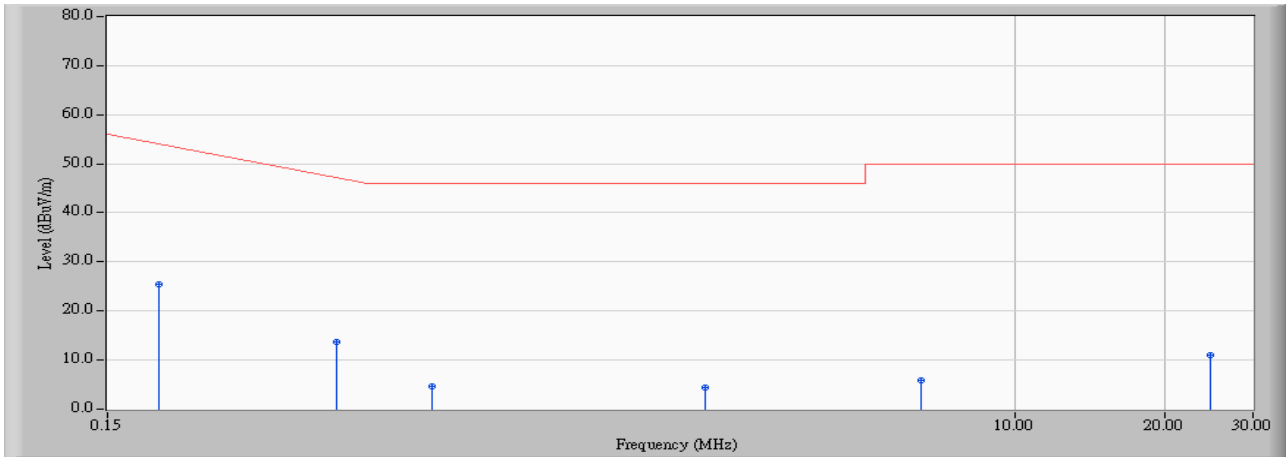


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.190	0.200	30.010	30.210	-34.647	64.857	QUASPEAK
2	*	0.434	0.200	23.890	24.090	-33.796	57.886	QUASPEAK
3		0.672	0.210	18.220	18.430	-37.570	56.000	QUASPEAK
4		2.373	0.250	8.930	9.180	-46.820	56.000	QUASPEAK
5		6.443	0.510	10.170	10.680	-49.320	60.000	QUASPEAK
6		24.576	1.220	14.520	15.740	-44.260	60.000	QUASPEAK

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 Room 2	Time : 2006/06/01 - 11:34
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Wireless color camera	Probe : QTK-LISN-SR2 - Line1
Power : AC120V/60Hz	Note : TTA-49T

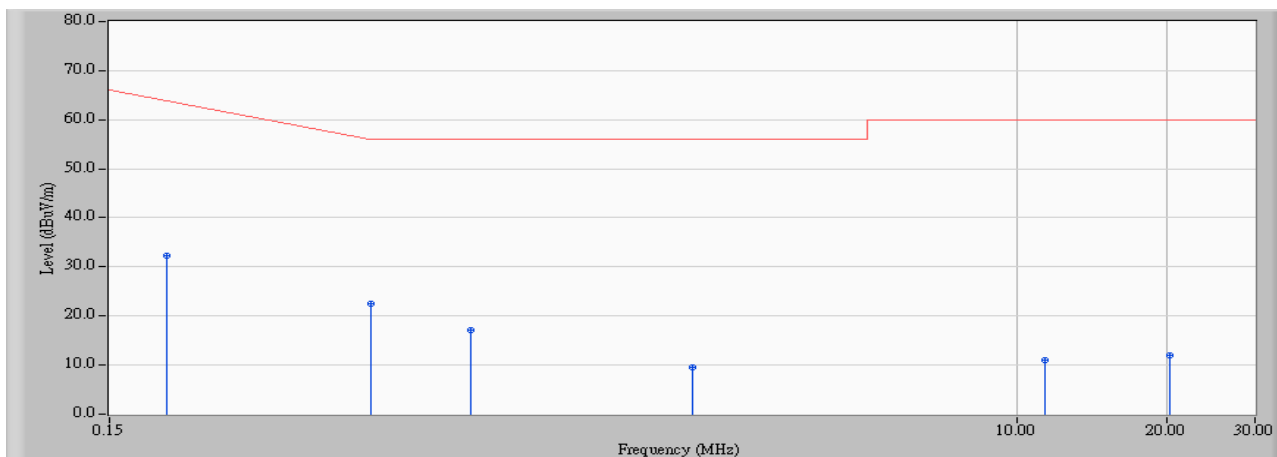


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.190	0.200	25.160	25.360	-29.497	54.857	AVERAGE
2		0.434	0.200	13.570	13.770	-34.116	47.886	AVERAGE
3		0.672	0.210	4.480	4.690	-41.310	46.000	AVERAGE
4		2.373	0.250	4.210	4.460	-41.540	46.000	AVERAGE
5		6.443	0.510	5.460	5.970	-44.030	50.000	AVERAGE
6		24.576	1.220	9.820	11.040	-38.960	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 Room 2	Time : 2006/06/01 - 13:12
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Wireless color camera	Probe : QTK-LISN-SR2 - Line2
Power : AC120V/60Hz	Note : TTA-49T

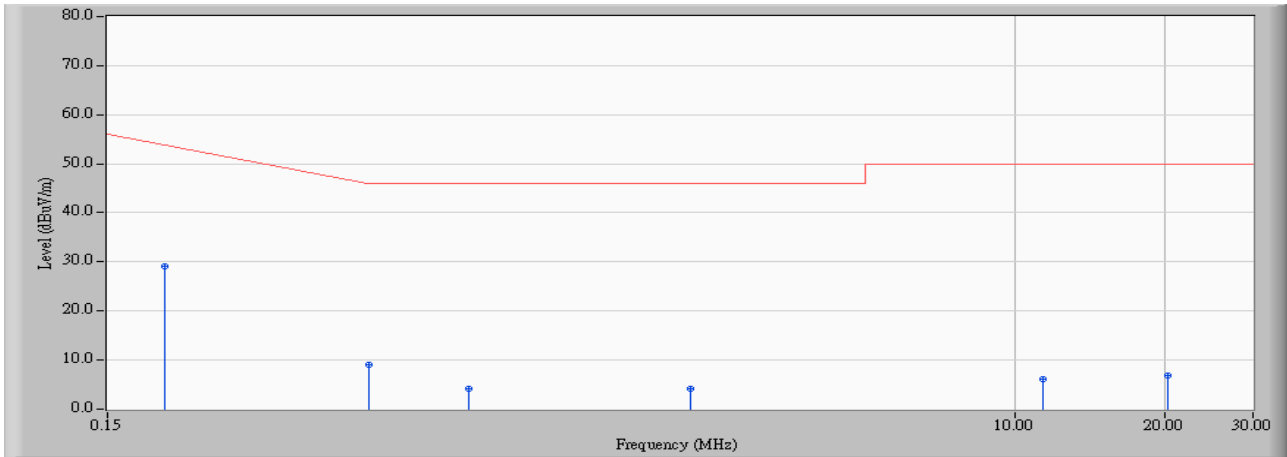


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.195	0.200	32.050	32.250	-32.464	64.714	QUASPEAK
2		0.502	0.210	22.230	22.440	-33.560	56.000	QUASPEAK
3		0.798	0.210	16.960	17.170	-38.830	56.000	QUASPEAK
4		2.232	0.230	9.350	9.580	-46.420	56.000	QUASPEAK
5		11.337	0.580	10.420	11.000	-49.000	60.000	QUASPEAK
6		20.166	0.770	11.260	12.030	-47.970	60.000	QUASPEAK

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 Room 2	Time : 2006/06/01 - 13:12
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Wireless color camera	Probe : QTK-LISN-SR2 - Line2
Power : AC120V/60Hz	Note : TTA-49T



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.195	0.200	28.910	29.110	-25.604	54.714	AVERAGE
2		0.502	0.210	8.820	9.030	-36.970	46.000	AVERAGE
3		0.798	0.210	3.880	4.090	-41.910	46.000	AVERAGE
4		2.232	0.230	4.040	4.270	-41.730	46.000	AVERAGE
5		11.337	0.580	5.520	6.100	-43.900	50.000	AVERAGE
6		20.166	0.770	6.160	6.930	-43.070	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

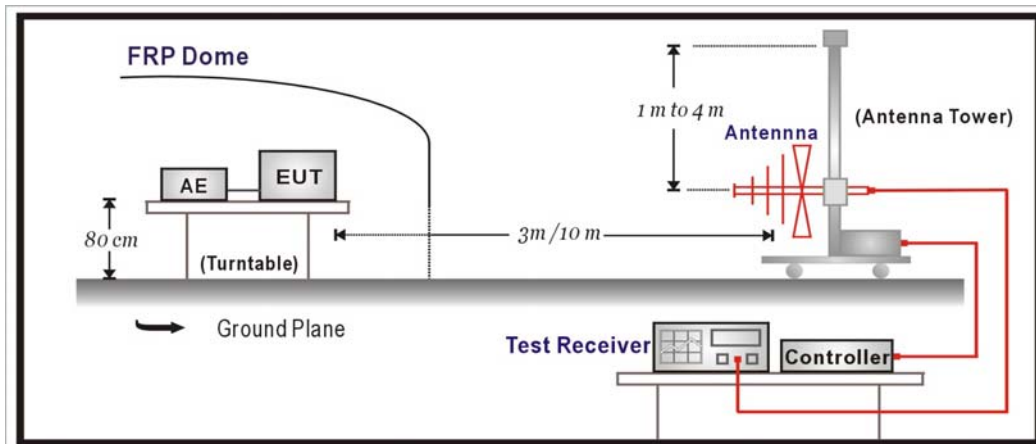
The following test equip

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., 2005
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2005
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2006
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2005
8		No.3 OATS			Sep., 2005

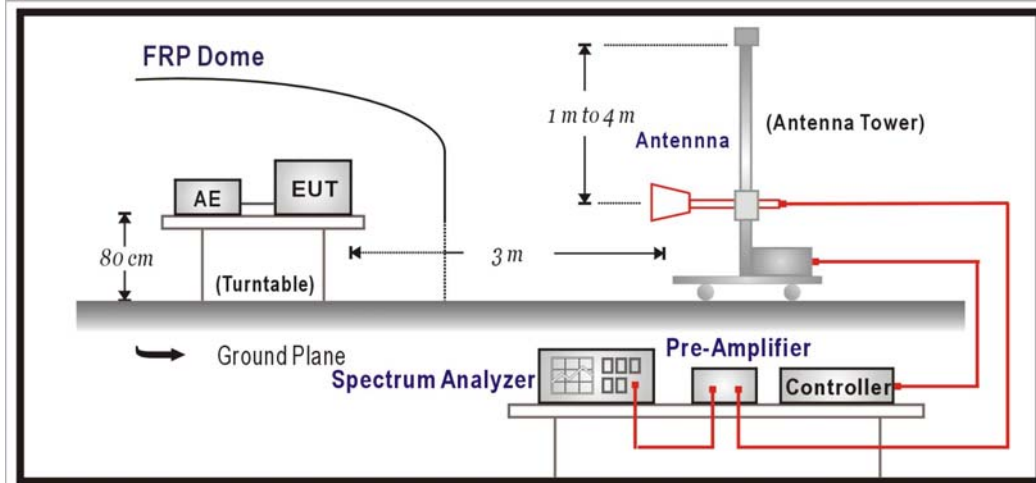
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

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 : 2006/05/30 - 20:40
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-49T/TTA-64R	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60HZ	Note : CH1 907MHZ

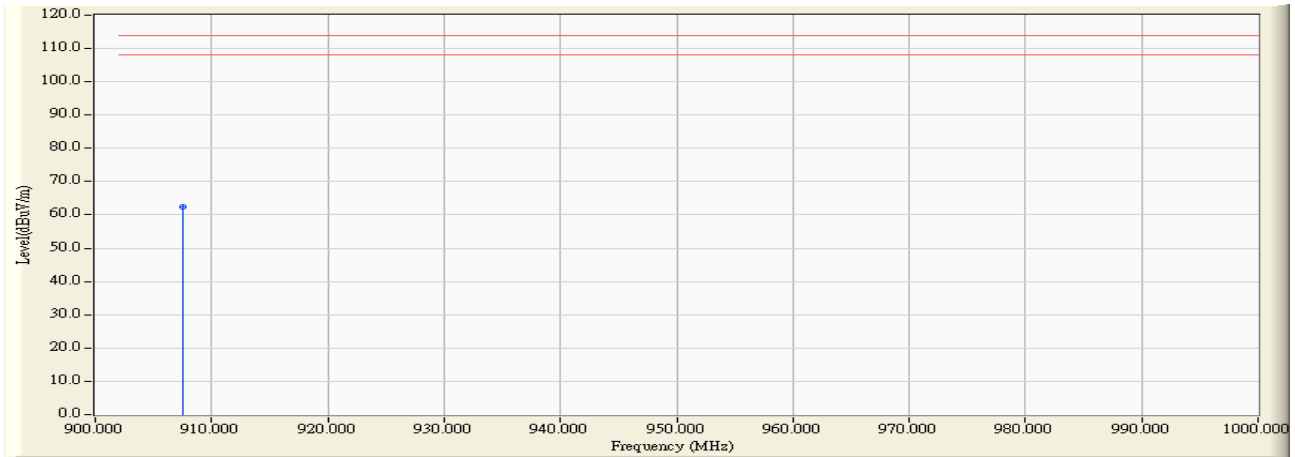


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	905.840	26.685	39.030	65.716	-48.284	114.000	PEAK	0.000	0.000

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 : 2006/05/30 - 20:40
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-49T	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60HZ	Note : CH1- 907MHZ

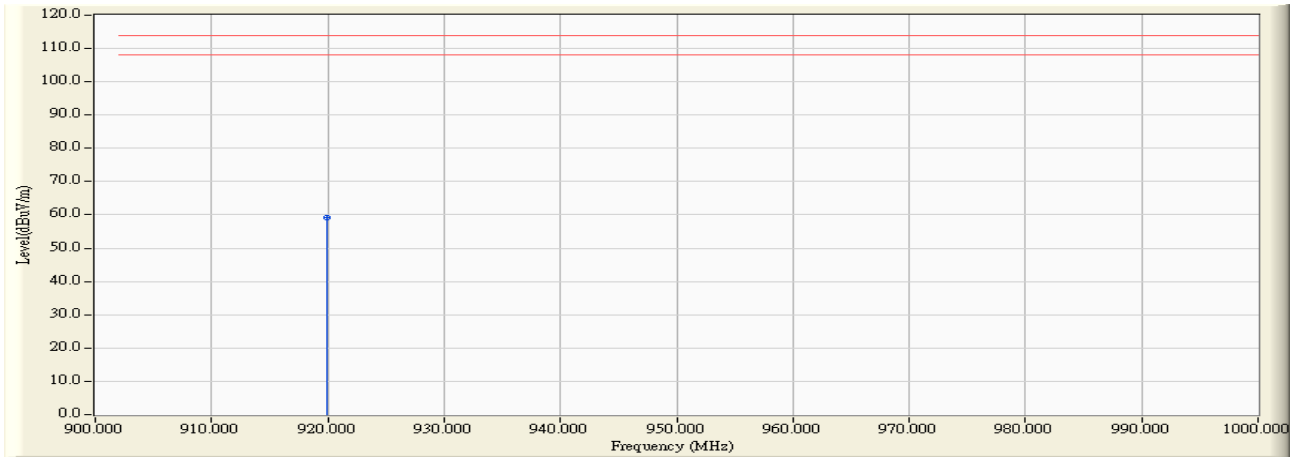


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	907.480	23.922	38.490	62.412	-51.588	114.000	PEAK	0.000	0.000

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 : 2006/05/30 - 20:41
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-49T/TTA-64R	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60HZ	Note : CH2 920MHZ

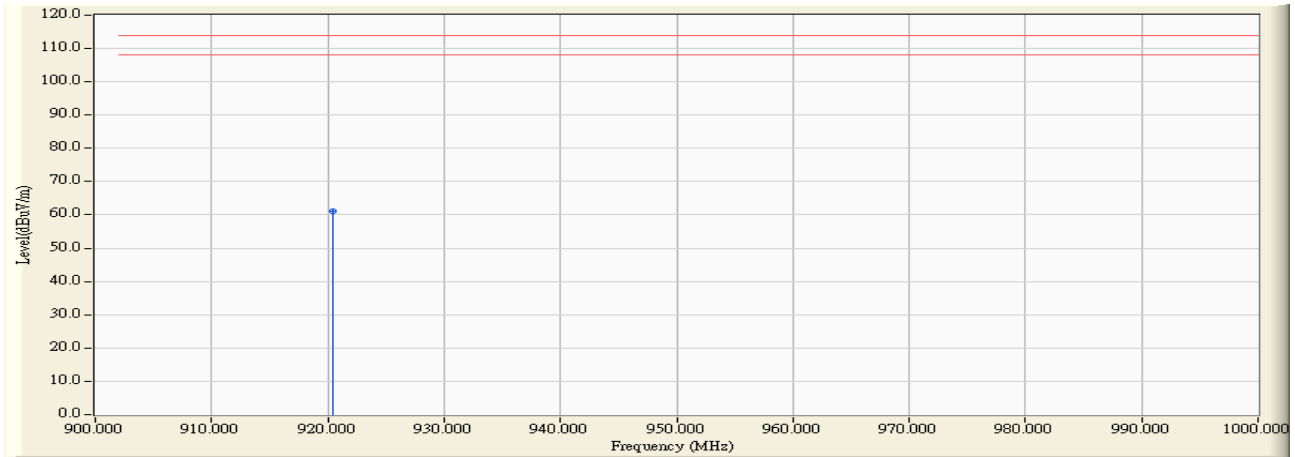


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	919.960	26.367	32.960	59.327	-54.673	114.000	PEAK	0.000	0.000

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 : 2006/05/30 - 20:41
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-49T/TTA-64R	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60HZ	Note : CH2 920MHZ



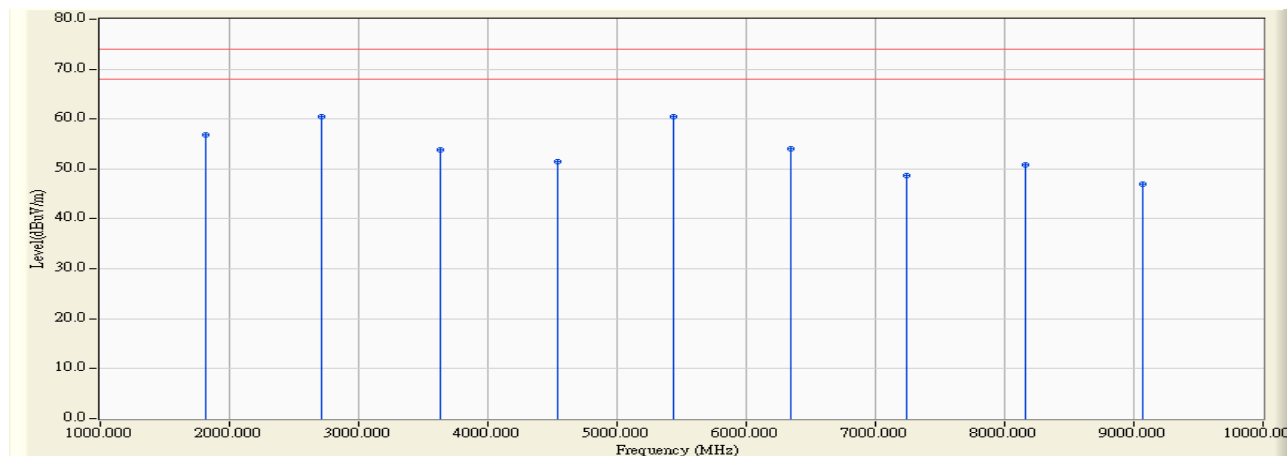
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	920.400	22.641	38.490	61.131	-52.869	114.000	PEAK	0.000	0.000

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 : 2006/05/30 - 20:09
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-49T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60HZ	Note : CH1- 907MHZ

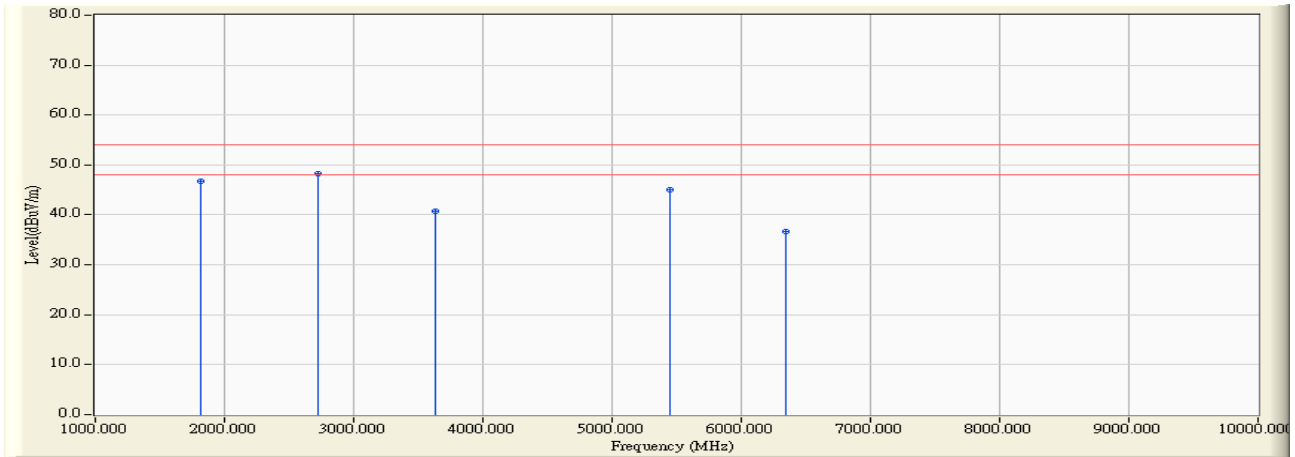


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	1814.020	-6.128	62.930	56.802	-17.168	73.970	PEAK	0.000	0.000
2	* 2716.900	-2.070	62.600	60.530	-13.440	73.970	PEAK	0.000	0.000
3	3628.500	-0.366	54.110	53.744	-20.226	73.970	PEAK	0.000	0.000
4	4542.500	1.990	49.383	51.373	-22.597	73.970	PEAK	0.000	0.000
5	5440.600	4.073	56.420	60.494	-13.476	73.970	PEAK	0.000	0.000
6	6344.400	4.374	49.750	54.124	-19.846	73.970	PEAK	0.000	0.000
7	7245.000	8.051	40.600	48.651	-25.319	73.970	PEAK	0.000	0.000
8	8162.300	9.696	41.050	50.746	-23.224	73.970	PEAK	0.000	0.000
9	9064.300	10.440	36.540	46.980	-26.990	73.970	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 : 2006/05/30 - 20:10
Limit : FCC_SpartC_15.249_H_03M_AV	Margin : 6
EUT : TTA-49T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60HZ	Note : CH1- 907MHZ

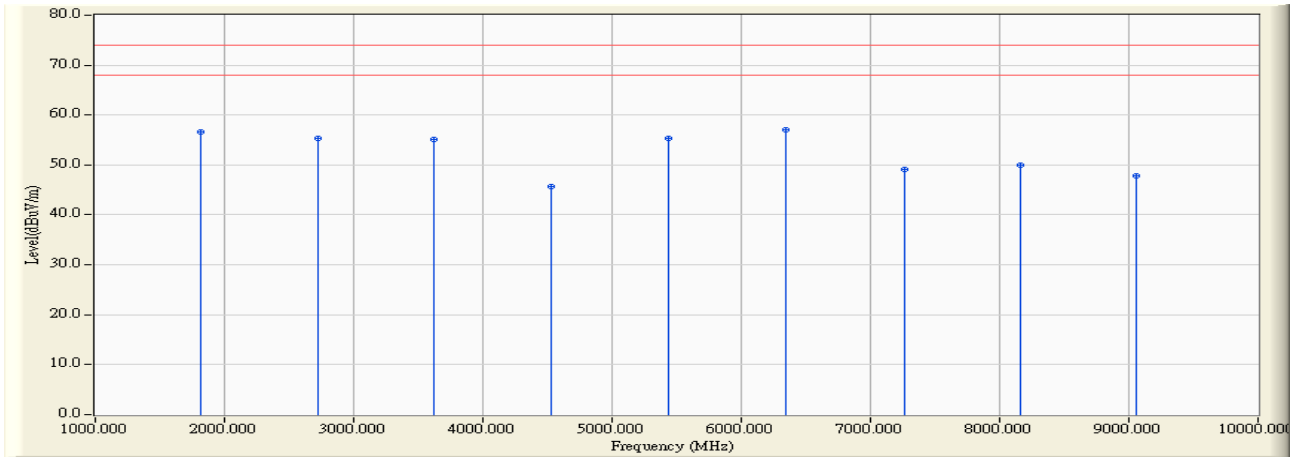


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	1813.800	-6.128	52.880	46.751	-7.219	53.970	AVERAGE	0.000	0.000
2	* 2720.800	-2.061	50.270	48.209	-5.761	53.970	AVERAGE	0.000	0.000
3	3628.500	-0.366	41.210	40.844	-13.126	53.970	AVERAGE	0.000	0.000
4	5442.600	4.074	40.980	45.053	-8.917	53.970	AVERAGE	0.000	0.000
5	6346.700	4.386	32.360	36.746	-17.224	53.970	AVERAGE	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 : 2006/05/30 - 20:15
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-49T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60HZ	Note : CH1- 907MHZ

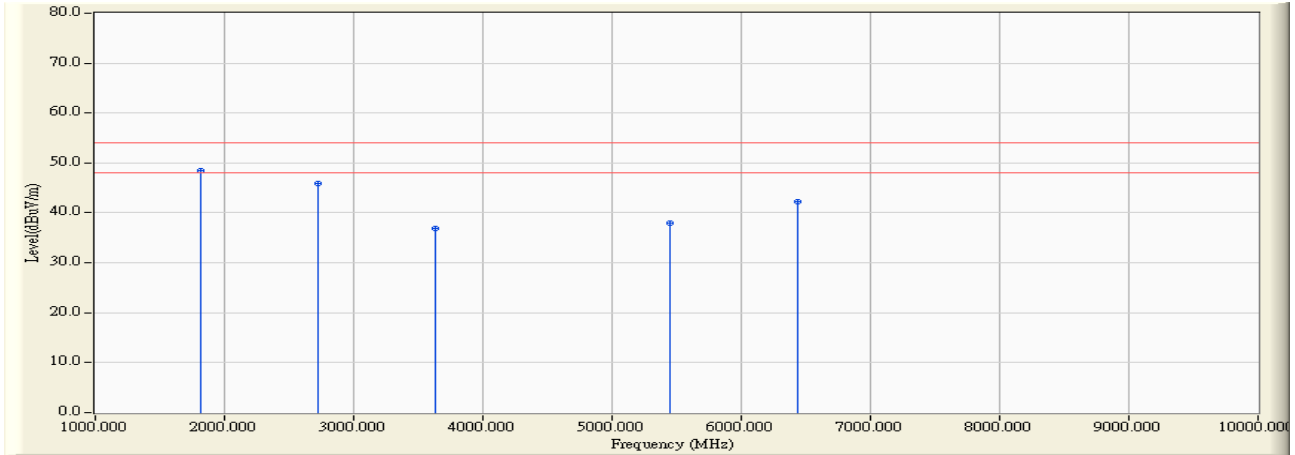


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	1813.800	-5.485	62.120	56.634	-17.336	73.970	PEAK	0.000	0.000
2	2724.300	-3.652	59.080	55.427	-18.543	73.970	PEAK	0.000	0.000
3	3625.200	-0.368	55.450	55.081	-18.889	73.970	PEAK	0.000	0.000
4	4534.000	0.151	45.630	45.781	-28.189	73.970	PEAK	0.000	0.000
5	5440.600	2.673	52.640	55.314	-18.656	73.970	PEAK	0.000	0.000
6	* 6344.400	4.874	52.210	57.084	-16.886	73.970	PEAK	0.000	0.000
7	7270.000	8.242	40.960	49.203	-24.767	73.970	PEAK	0.000	0.000
8	8162.000	9.695	40.330	50.024	-23.946	73.970	PEAK	0.000	0.000
9	9055.000	10.457	37.330	47.787	-26.183	73.970	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 : 2006/05/30 - 20:16
Limit : FCC_SpartC_15.249_H_03M_AV	Margin : 6
EUT : TTA-49T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60HZ	Note : CH1- 907MHZ

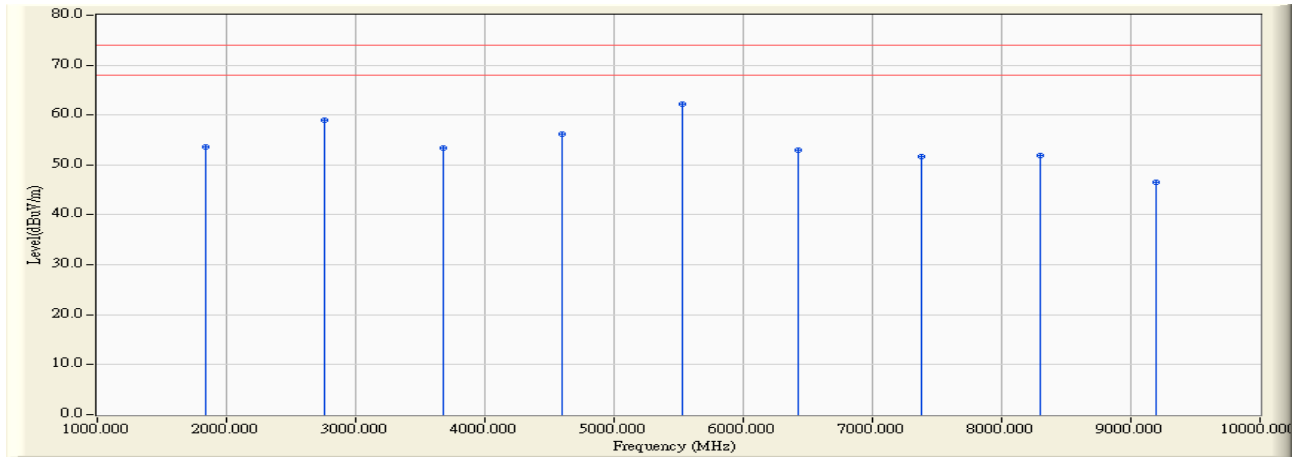


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	1814.200	-5.488	54.050	48.562	-5.408	53.970	AVERAGE	0.000	0.000
2		2721.400	-3.660	49.510	45.851	-8.119	53.970	AVERAGE	0.000	0.000
3		3628.000	-0.366	37.340	36.973	-16.997	53.970	AVERAGE	0.000	0.000
4		5442.800	2.673	35.370	38.043	-15.927	53.970	AVERAGE	0.000	0.000
5		6439.600	5.348	36.900	42.248	-11.722	53.970	AVERAGE	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 : 2006/05/30 - 20:22
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-49T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60HZ	Note : CH2- 920MHZ

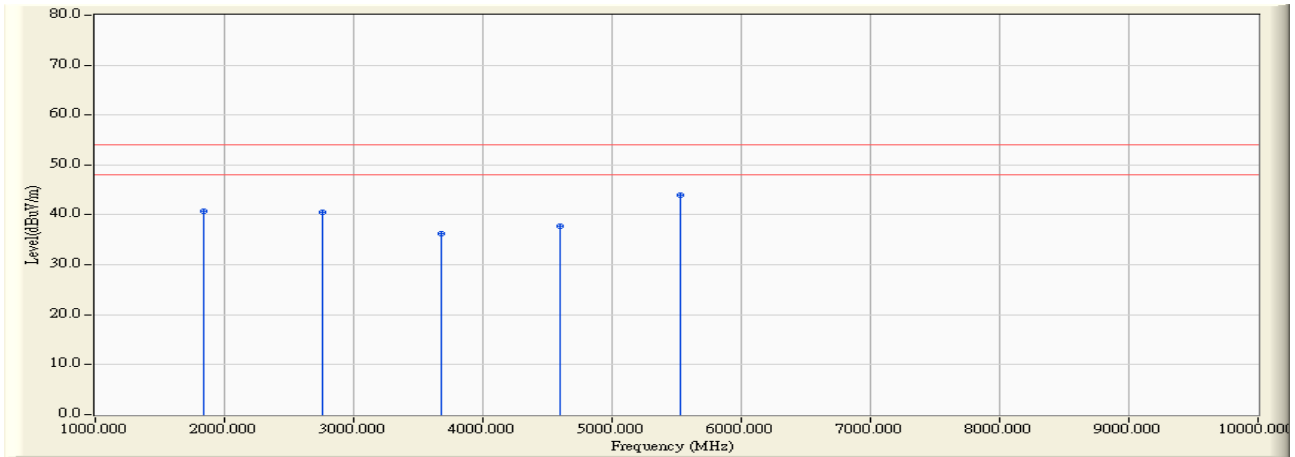


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	1841.100	-5.943	59.600	53.658	-20.312	73.970	PEAK	0.000	0.000
2	2755.900	-1.967	60.910	58.942	-15.028	73.970	PEAK	0.000	0.000
3	3677.010	-0.335	53.800	53.465	-20.505	73.970	PEAK	0.000	0.000
4	4601.500	2.275	53.880	56.155	-17.815	73.970	PEAK	0.000	0.000
5	* 5524.200	4.039	58.190	62.228	-11.742	73.970	PEAK	0.000	0.000
6	6429.400	4.802	48.110	52.912	-21.058	73.970	PEAK	0.000	0.000
7	7374.900	9.048	42.640	51.688	-22.282	73.970	PEAK	0.000	0.000
8	8298.600	9.885	42.010	51.895	-22.075	73.970	PEAK	0.000	0.000
9	9198.900	10.248	36.300	46.547	-27.423	73.970	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 : 2006/05/30 - 20:24
Limit : FCC_SpartC_15.249_H_03M_AV	Margin : 6
EUT : TTA-49T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60HZ	Note : CH2- 920MHZ

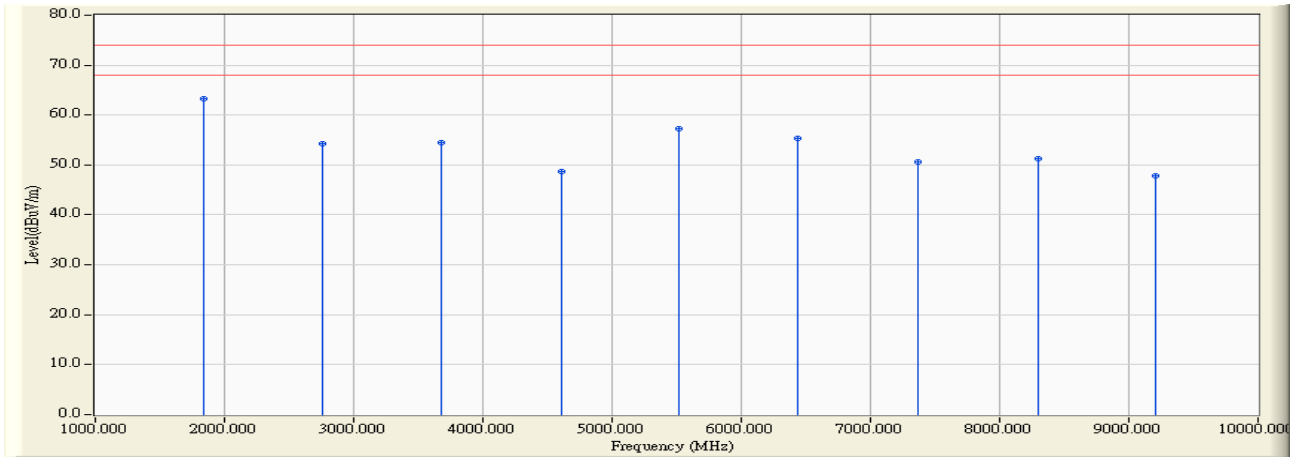


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	1840.500	-5.946	46.640	40.694	-13.276	53.970	AVERAGE	0.000	0.000
2	2759.200	-1.958	42.450	40.492	-13.478	53.970	AVERAGE	0.000	0.000
3	3680.400	-0.333	36.650	36.317	-17.653	53.970	AVERAGE	0.000	0.000
4	4602.900	2.280	35.540	37.821	-16.149	53.970	AVERAGE	0.000	0.000
5	* 5524.100	4.037	39.900	43.938	-10.032	53.970	AVERAGE	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 : 2006/05/30 - 20:26
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-49T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60HZ	Note : CH2- 920MHZ

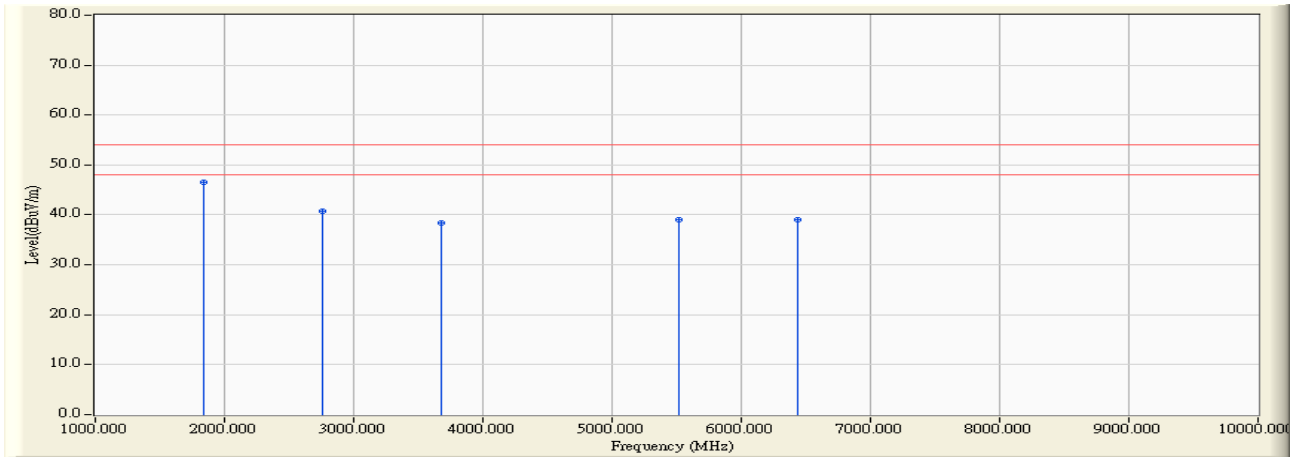


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	1843.600	-5.642	68.920	63.278	-10.692	73.970	PEAK	0.000	0.000
2		2756.200	-3.567	57.830	54.263	-19.707	73.970	PEAK	0.000	0.000
3		3675.500	-0.336	54.880	54.544	-19.426	73.970	PEAK	0.000	0.000
4		4609.400	0.502	48.190	48.691	-25.279	73.970	PEAK	0.000	0.000
5		5521.300	2.639	54.590	57.229	-16.741	73.970	PEAK	0.000	0.000
6		6432.700	5.317	50.090	55.407	-18.563	73.970	PEAK	0.000	0.000
7		7365.700	8.981	41.710	50.690	-23.280	73.970	PEAK	0.000	0.000
8		8296.900	9.886	41.400	51.286	-22.684	73.970	PEAK	0.000	0.000
9		9202.600	10.260	37.640	47.900	-26.070	73.970	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 : 2006/05/30 - 20:27
Limit : FCC_SpartC_15.249_H_03M_AV	Margin : 6
EUT : TTA-49T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60HZ	Note : CH2- 920MHZ



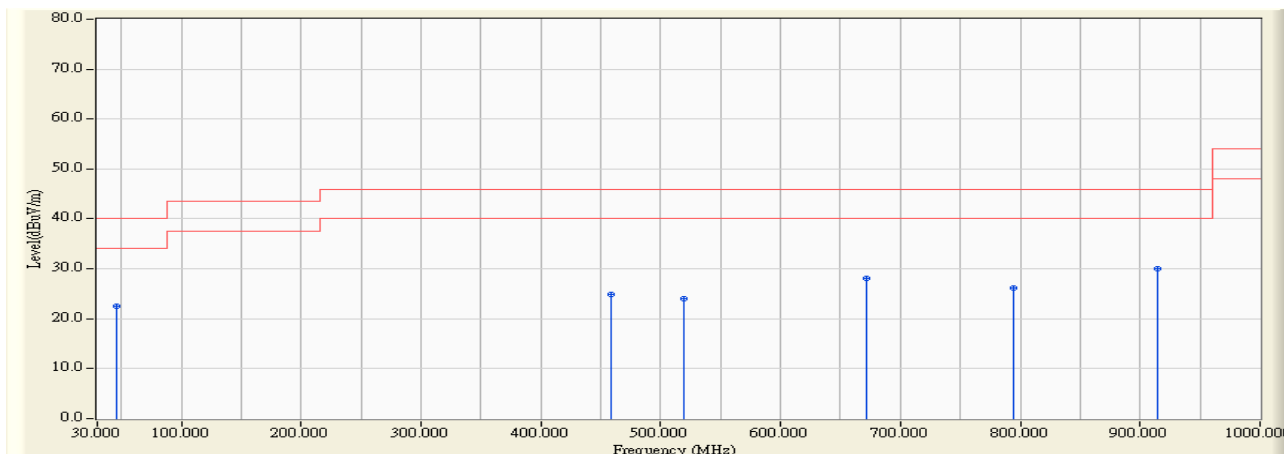
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	1840.600	-5.625	52.200	46.575	-7.395	53.970	AVERAGE	0.000	0.000
2		2760.700	-3.554	44.410	40.856	-13.114	53.970	AVERAGE	0.000	0.000
3		3681.020	-0.332	38.720	38.388	-15.582	53.970	AVERAGE	0.000	0.000
4		5520.700	2.639	36.300	38.940	-15.030	53.970	AVERAGE	0.000	0.000
5		6442.500	5.359	33.620	38.979	-14.991	53.970	AVERAGE	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

30 MHz-1 GHz Spurious:

Site : cb3	Time : 2006/05/30 - 17:23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-49T	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH1-907MHz

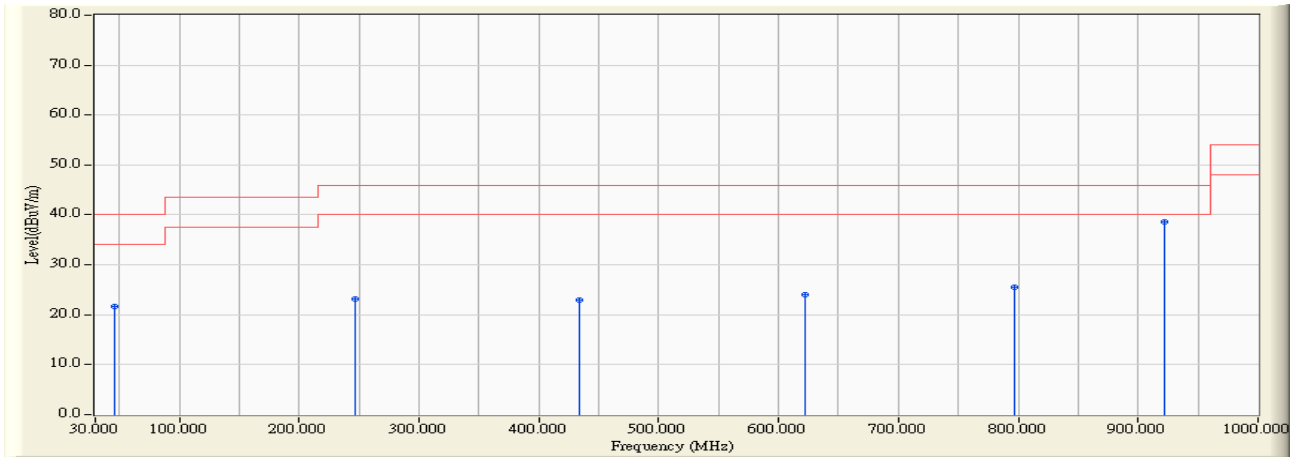


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	45.520	-0.946	23.479	22.533	-17.467	40.000	PEAK	0.000	0.000
2	458.740	1.548	23.252	24.800	-21.200	46.000	PEAK	0.000	0.000
3	518.880	1.906	22.183	24.089	-21.911	46.000	PEAK	0.000	0.000
4	672.140	5.717	22.355	28.072	-17.928	46.000	PEAK	0.000	0.000
5	794.360	3.609	22.532	26.141	-19.859	46.000	PEAK	0.000	0.000
6	* 914.640	4.248	25.768	30.016	-15.984	46.000	PEAK	0.000	0.000

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 : cb3	Time : 2006/05/30 - 17:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-49T	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : CH1-907MHz

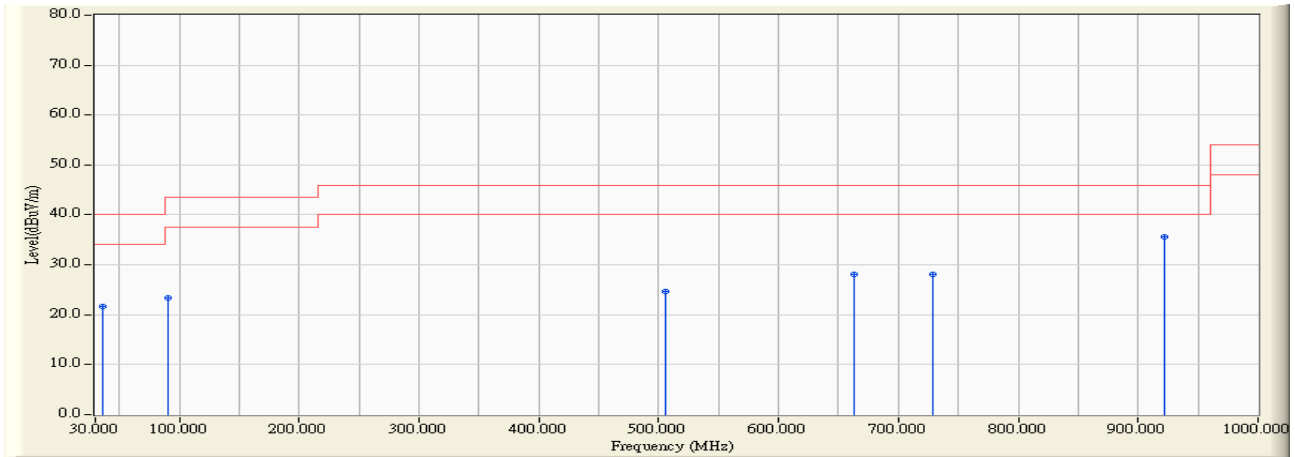


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	45.520	-0.426	22.067	21.641	-18.359	40.000	PEAK	0.000	0.000
2	247.280	-4.104	27.254	23.150	-22.850	46.000	PEAK	0.000	0.000
3	433.520	0.636	22.383	23.019	-22.981	46.000	PEAK	0.000	0.000
4	621.700	1.653	22.387	24.040	-21.960	46.000	PEAK	0.000	0.000
5	796.300	2.917	22.665	25.582	-20.418	46.000	PEAK	0.000	0.000
6	* 922.400	0.503	38.093	38.596	-7.404	46.000	PEAK	0.000	0.000

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 : cb3	Time : 2006/05/30 - 17:27
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-49T	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH2-920MHz

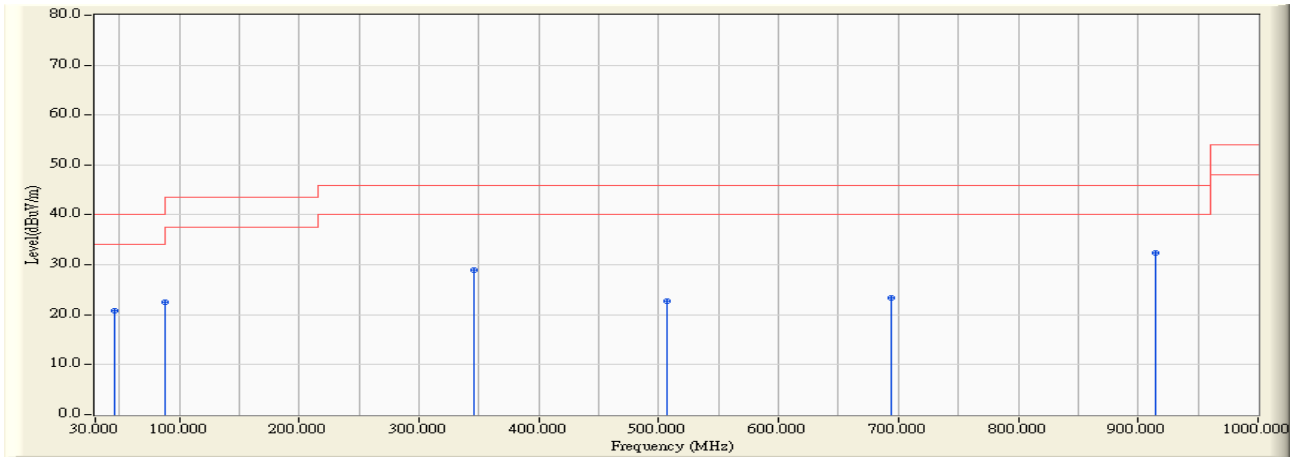


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	35.820	-0.836	22.420	21.584	-18.416	40.000	PEAK	0.000	0.000
2	90.140	-2.174	25.543	23.369	-20.131	43.500	PEAK	0.000	0.000
3	505.300	2.087	22.631	24.718	-21.282	46.000	PEAK	0.000	0.000
4	662.440	5.739	22.376	28.115	-17.885	46.000	PEAK	0.000	0.000
5	728.400	6.077	21.997	28.074	-17.926	46.000	PEAK	0.000	0.000
6	* 922.400	4.083	31.544	35.627	-10.373	46.000	PEAK	0.000	0.000

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 : cb3	Time : 2006/05/30 - 17:29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-49T	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : CH2-920MHz



	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	45.520	-0.426	21.285	20.859	-19.141	40.000	PEAK	0.000	0.000
2	88.200	-7.037	29.514	22.477	-21.023	43.500	PEAK	0.000	0.000
3	346.220	-3.267	32.317	29.050	-16.950	46.000	PEAK	0.000	0.000
4	507.240	0.103	22.655	22.758	-23.242	46.000	PEAK	0.000	0.000
5	693.480	0.950	22.434	23.384	-22.616	46.000	PEAK	0.000	0.000
6	* 914.640	0.848	31.545	32.393	-13.607	46.000	PEAK	0.000	0.000

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

4. Band Edge

4.1. Test Equipment

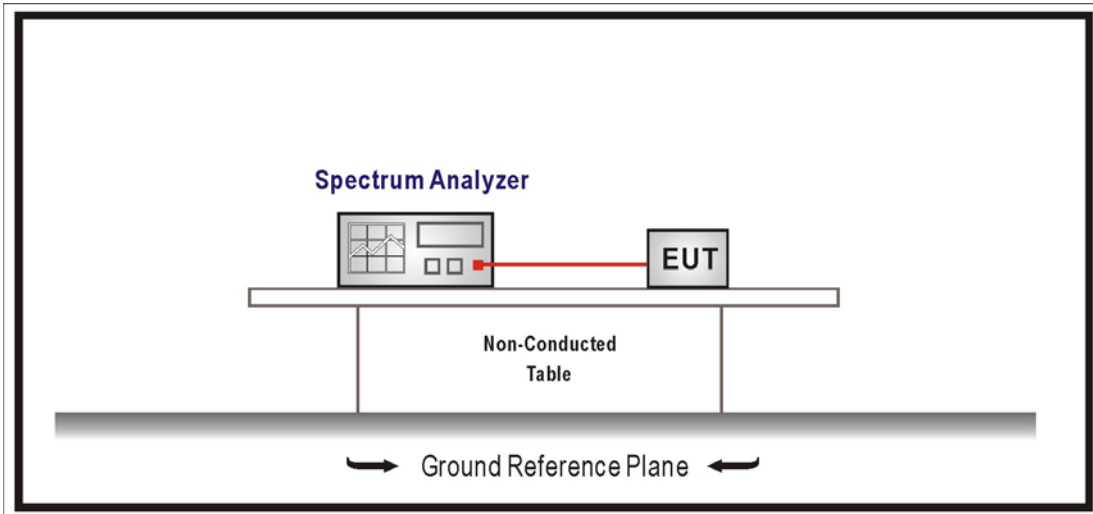
The following test equipment are used during the test:

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., 2005
RF Radiated Measurement:				
Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2005
2	X Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2006
3	Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2005
4	BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2005
5	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2005
6	X Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2005
7	No.1 OATS			Sep., 2005

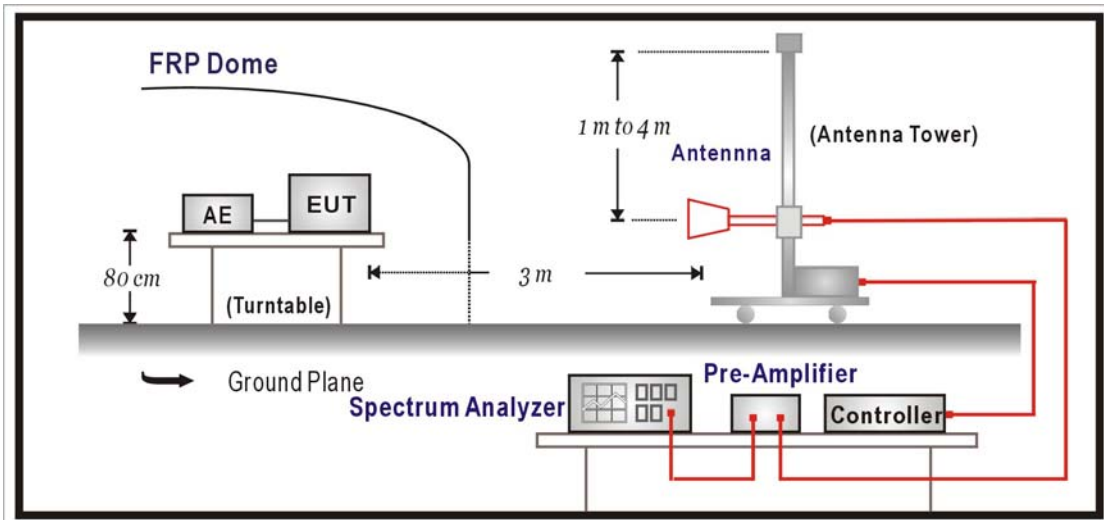
- Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

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

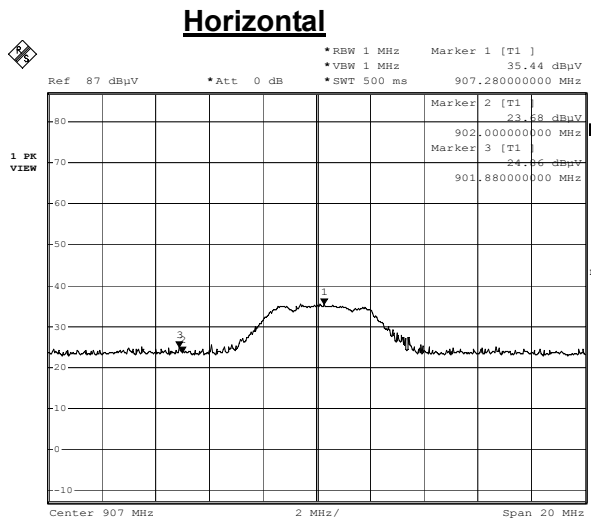
4.6. Test Result

Product	Wireless color camera		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/05/30	Test Site	No.1 OATS

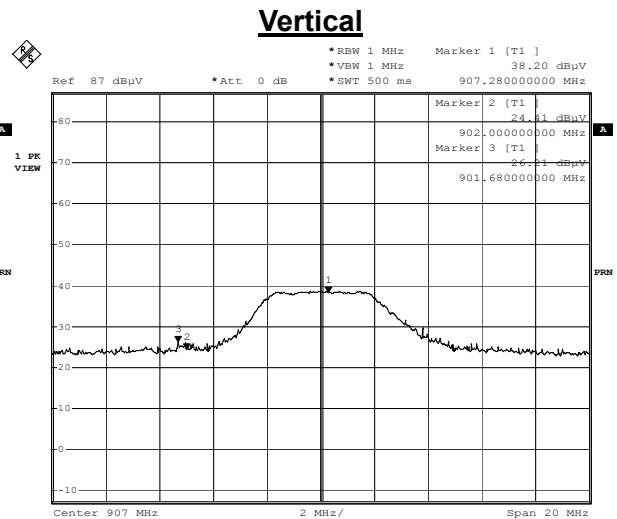
907 MHz

RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBUV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBUV/m)	Limit (dBUV/m)	Result
Horizontal	901.880	24.860	26.768	00.00	51.627	66.020	Pass
Vertical	901.680	26.210	24.574	00.00	50.784	66.020	Pass



Date: 30.MAY.2006 21:06:54



Date: 30.MAY.2006 21:09:54

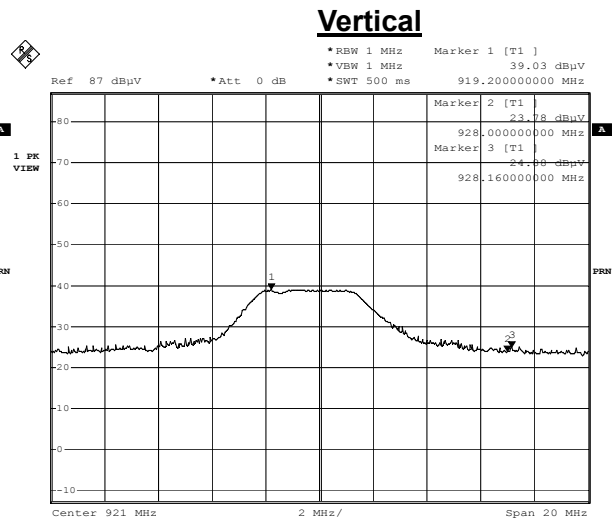
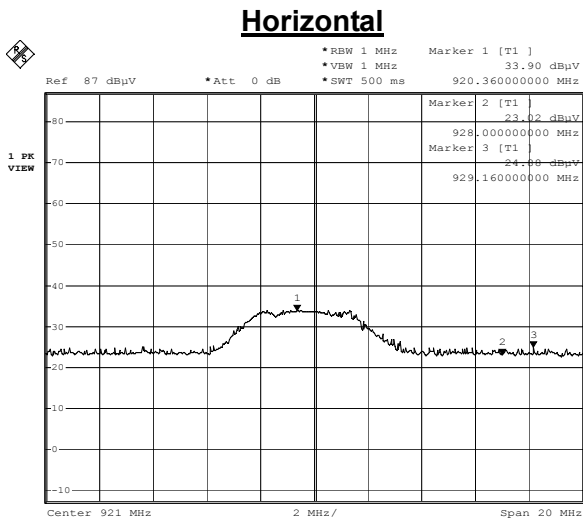
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Wireless color camera		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/05/30	Test Site	No.1 OATS

920 MHz

RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Result
Horizontal	929.160	24.880	26.135	00.00	51.015	66.020	Pass
Vertical	928.160	24.880	23.006	00.00	47.886	66.020	Pass



Date: 30.MAY.2006 21:01:11

Date: 30.MAY.2006 20:55:22

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.