



Test Report

Product Name : Wireless B&W camera
Model No. : TTA-36T
FCC ID. : O6LTTA-36T

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

Date of Receipt : 2006/03/17
Issued Date : 2006/03/28
Report No. : 063H071-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. : 063H071-RF-US-P07V01



Product Name : Wireless B&W 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-36T
 FCC ID. : O6LTTA-36T
 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 : Sandy Chuang
 (Sandy Chuang)
 Tested By : Simon Lin
 (Simon Lin)
 Approved By : Bob Fang
 (Bob Fang)

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1. General Information

1.1. EUT Description

Product Name	Wireless B&W camera
Trade Name	TRANWO
Model No.	TTA-36T
Frequency Range	2417~2471MHz
Channel Number	4
Type of Modulation	FM
Channel Control	Manual
Antenna Type	Soldered on PCB

Component	
Power Adapter	AHEAD, ADA, 0600400 Input: AC 120V/60Hz, 6W Output: DC 6V, 400mA Cable Out: Non-Shielded, 2.8m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2435 MHz	002	2453 MHz	003	2471 MHz	004	2417 MHz

Note:

1. This device is a 2.4GHz Wireless B&W camera included a 2.4GHz 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 063H071-RF-US-P01V02 under Declaration of Conformity.

1.3. Test Mode

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

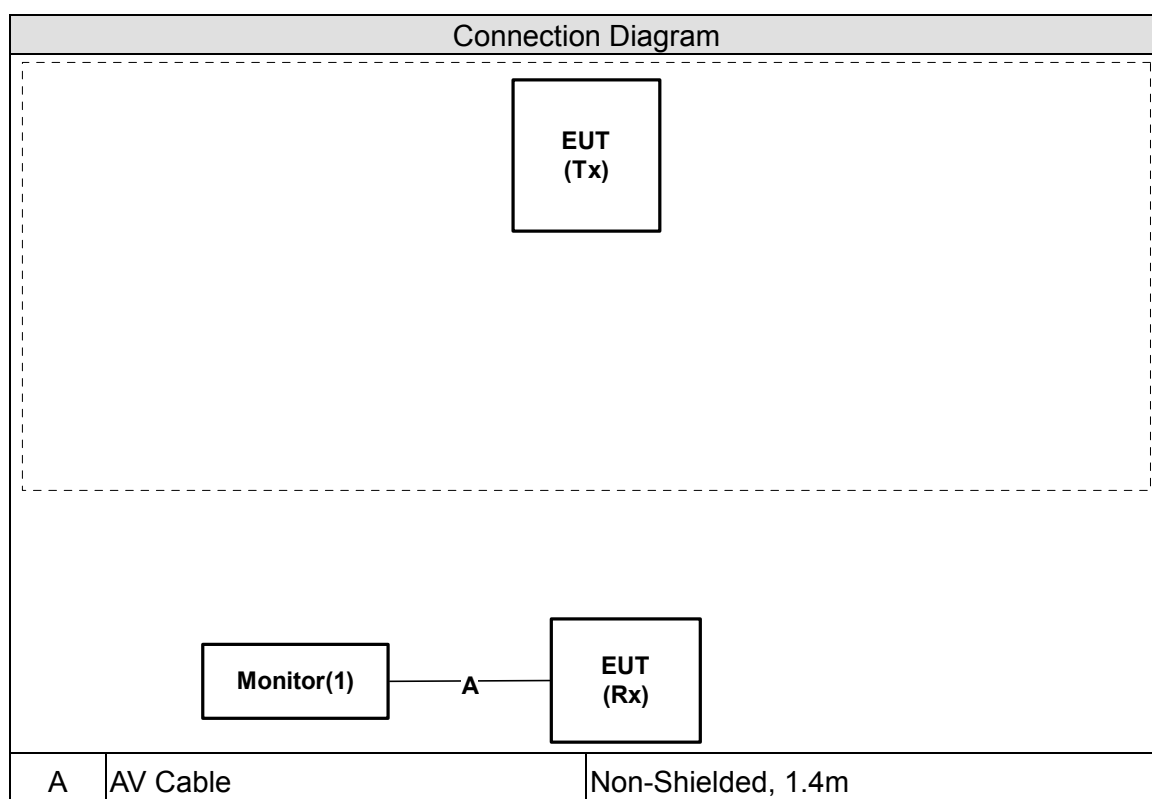
Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
TX	Mode 1: Transmit

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.	Power Cord
1 Monitor	THOMSON	BRAND	15LCDMO3B SN FRD100078	Non-Shielded, 1.8m

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	20
Humidity (%RH)		25 - 75	55
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.249 Band Edge	15 - 35	20
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.249 Radiated Emission	15 - 35	20
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

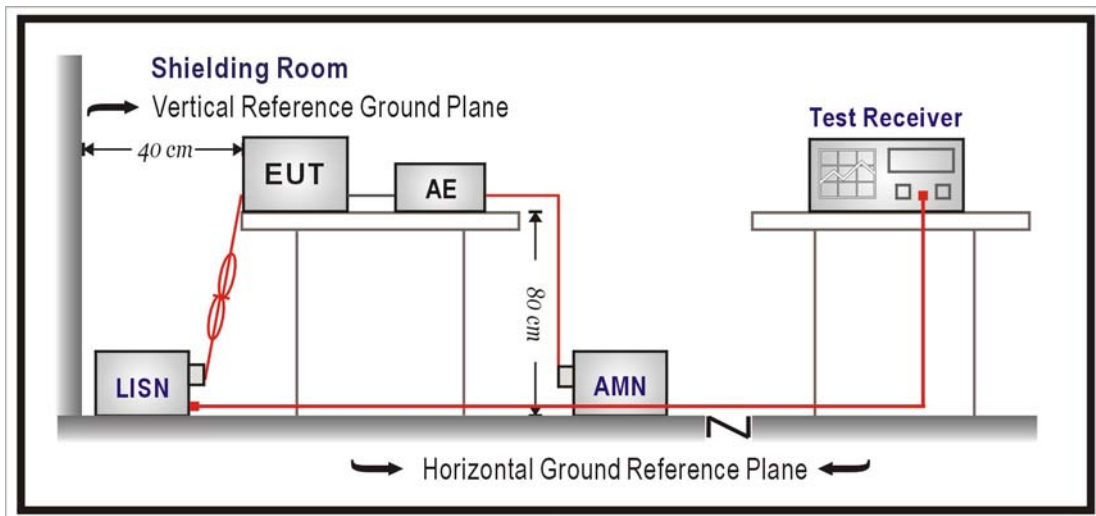
2.1. Test Equipment

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

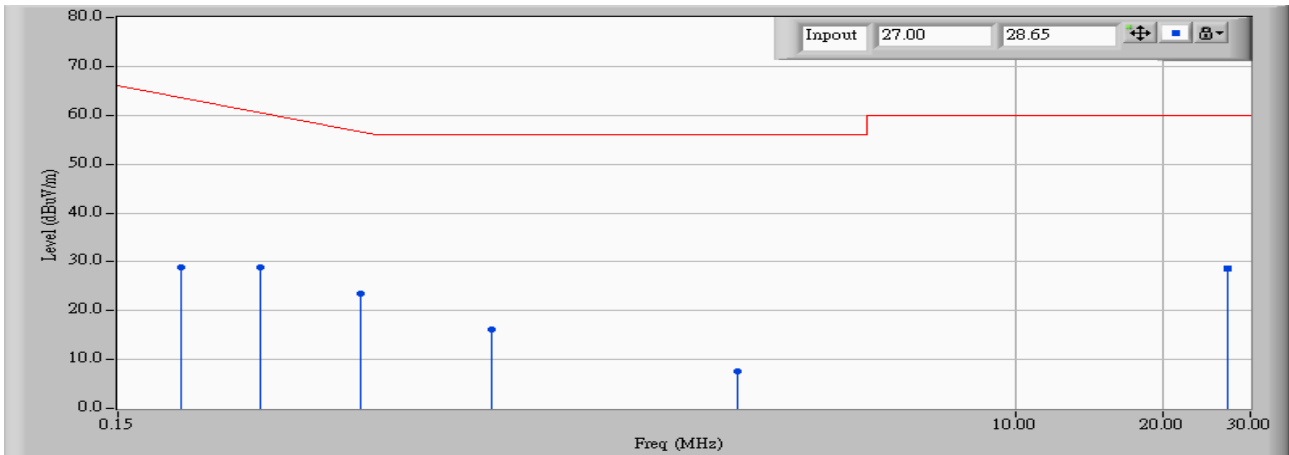
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling 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 3	Time : 2006/03/21 - 10:47
Limit : CISPR_B_00M_QP	Margin : 0
EUT : TTA-36T	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit

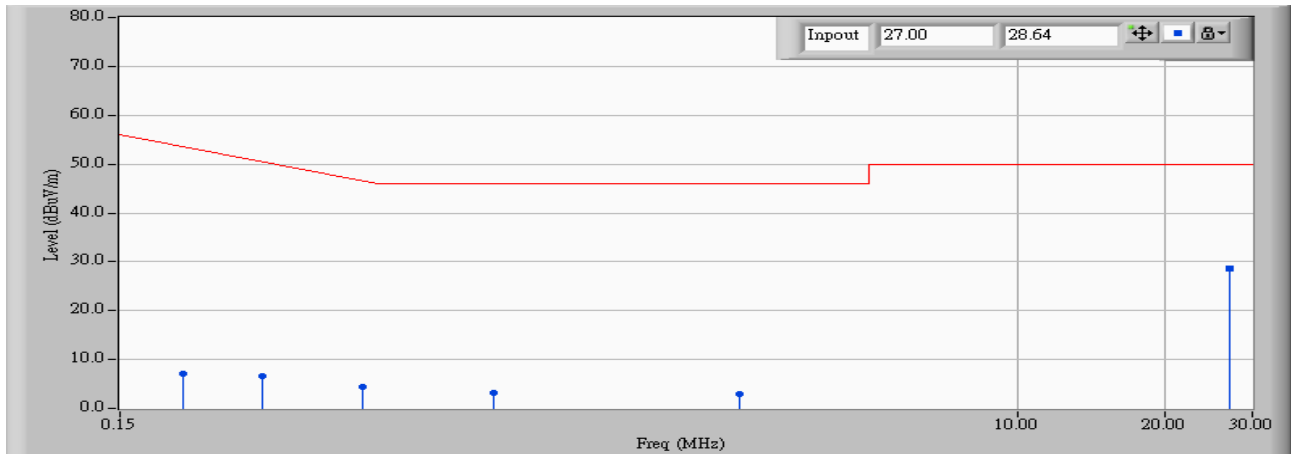


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.154	28.820	28.974	-35.569	64.543	QUASPEAK
2	*	0.291	0.174	28.690	28.864	-33.107	61.971	QUASPEAK
3		0.466	0.202	23.300	23.502	-33.469	56.971	QUASPEAK
4		0.865	0.225	15.870	16.095	-39.905	56.000	QUASPEAK
5		2.716	0.350	7.260	7.610	-48.390	56.000	QUASPEAK
6	*	27.002	1.060	27.590	28.650	-31.350	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 3	Time : 2006/03/21 - 10:47
Limit : CISPR_B_00M_AV	Margin : 0
EUT : TTA-36T	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit

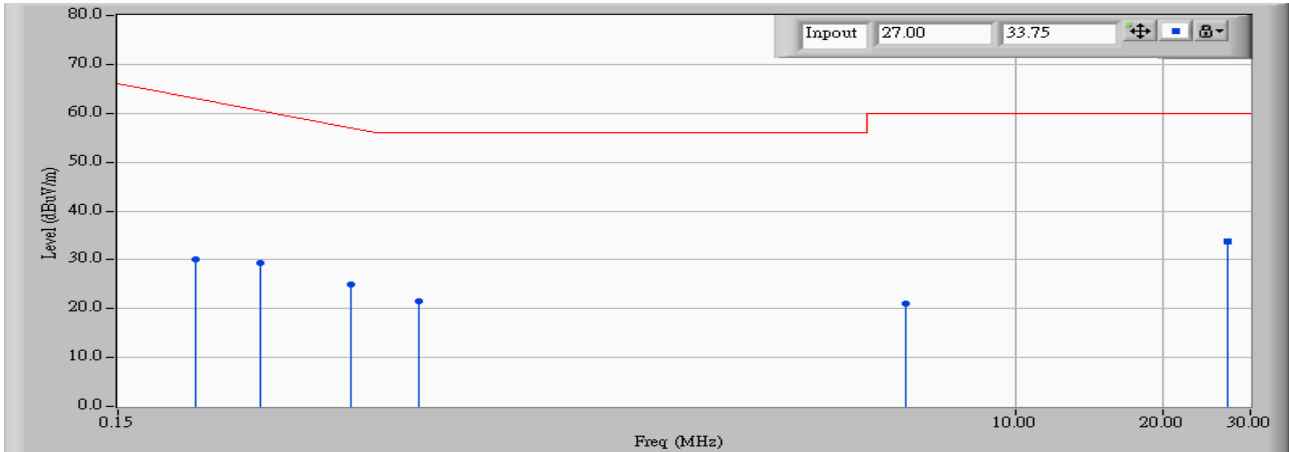


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.201	0.154	7.020	7.174	-47.369	54.543	AVERAGE
2	0.291	0.174	6.460	6.634	-45.337	51.971	AVERAGE
3	* 0.466	0.202	4.260	4.462	-42.509	46.971	AVERAGE
4	0.865	0.225	3.030	3.255	-42.745	46.000	AVERAGE
5	2.716	0.350	2.630	2.980	-43.020	46.000	AVERAGE
6	27.002	1.060	27.580	28.640	-21.360	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 3	Time : 2006/03/21 - 11:03
Limit : CISPR_B_00M_QP	Margin : 0
EUT : TTA-36T	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit

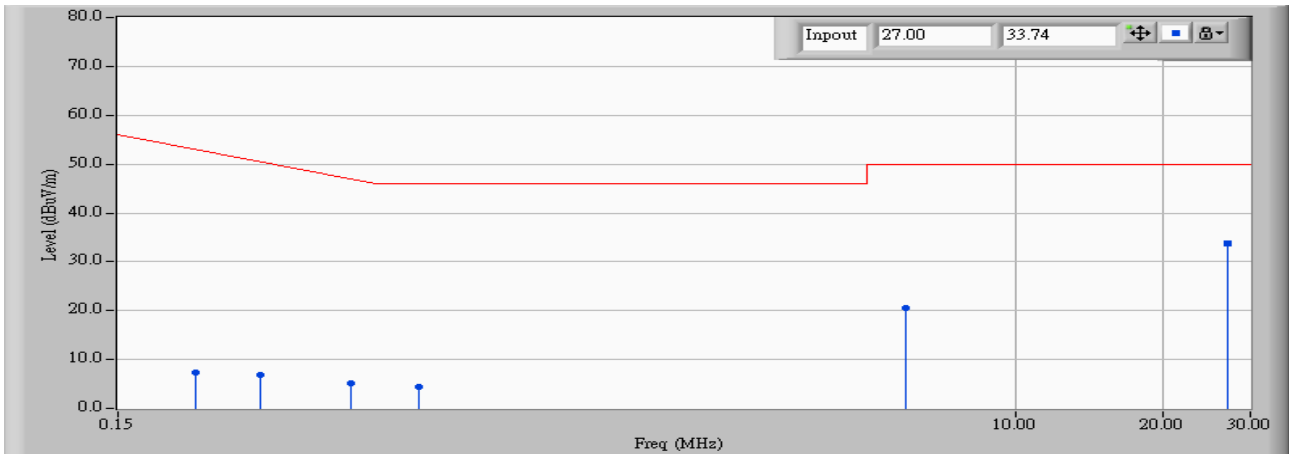


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.216	0.159	30.000	30.159	-33.955	64.114	QUASIPeAK
2	0.291	0.174	29.090	29.264	-32.707	61.971	QUASIPeAK
3	* 0.447	0.200	24.640	24.840	-32.674	57.514	QUASIPeAK
4	0.615	0.210	21.280	21.490	-34.510	56.000	QUASIPeAK
5	5.998	0.540	20.410	20.950	-39.050	60.000	QUASIPeAK
6	* 27.002	0.860	32.890	33.750	-26.250	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 Room 3	Time : 2006/03/21 - 11:03
Limit : CISPR_B_00M_AV	Margin : 0
EUT : TTA-36T	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.216	0.159	7.190	7.349	-46.765	54.114	AVERAGE
2	0.291	0.174	6.590	6.764	-45.207	51.971	AVERAGE
3	0.447	0.200	4.900	5.100	-42.414	47.514	AVERAGE
4	0.615	0.210	4.140	4.350	-41.650	46.000	AVERAGE
5	* 5.998	0.540	20.130	20.670	-29.330	50.000	AVERAGE
6	27.002	0.860	32.880	33.740	-16.260	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

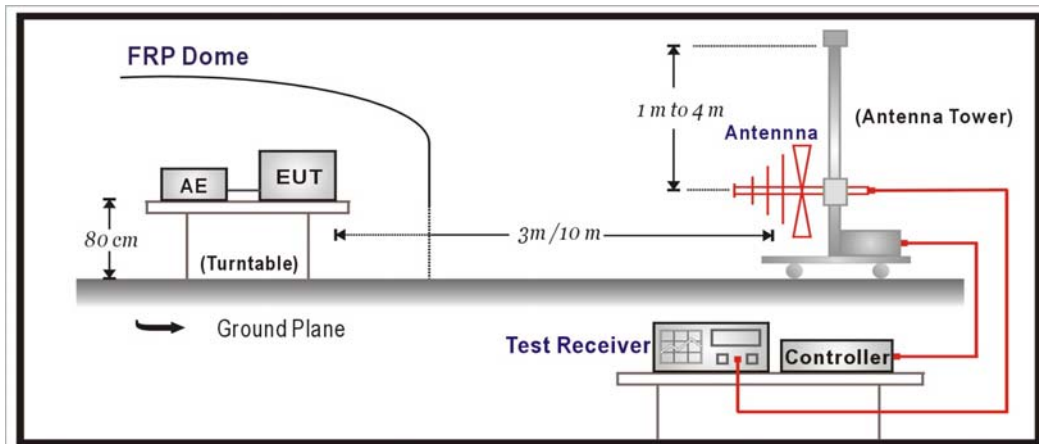
The following test equip

Item		Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/018	Jun., 2005
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

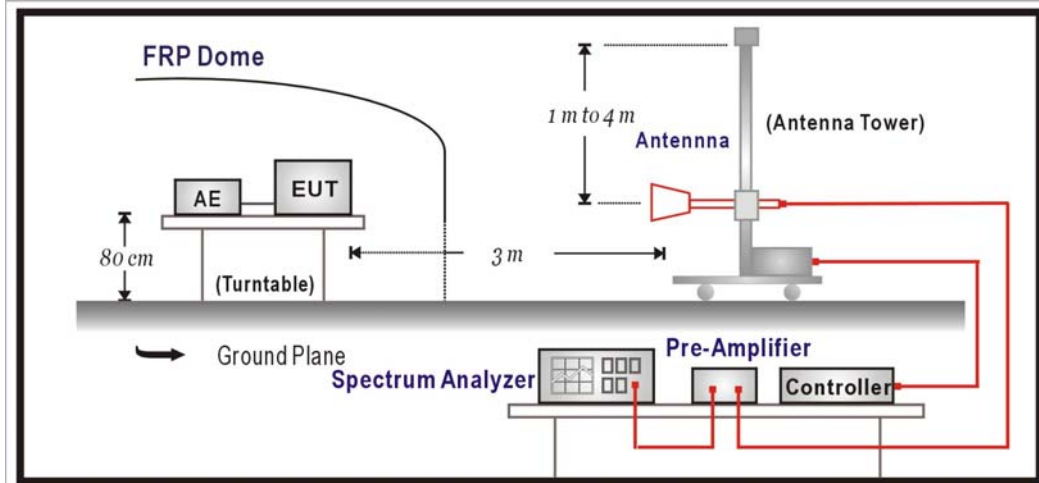
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

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.

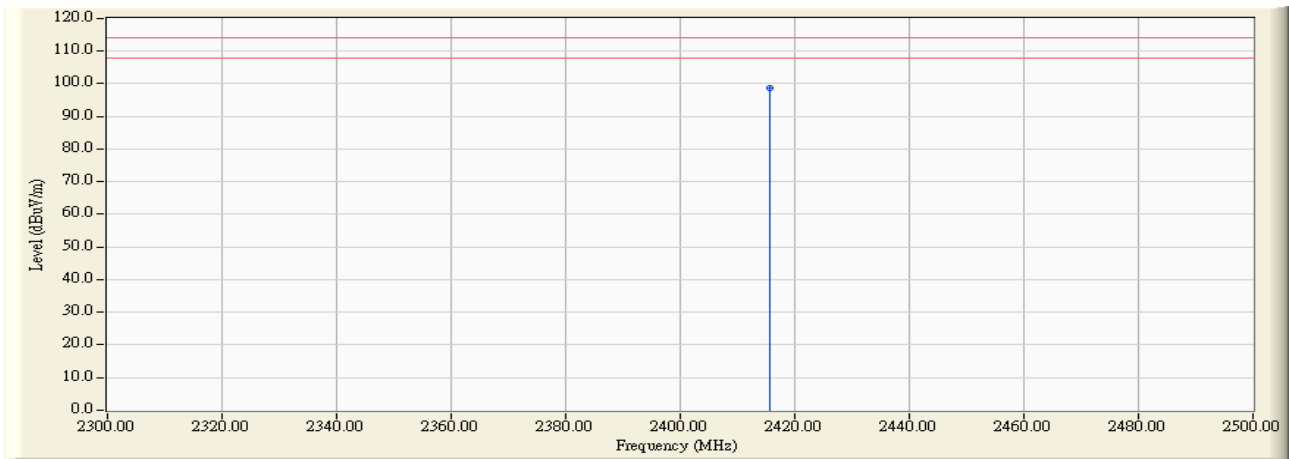
3.5. Test Specification

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

3.6. Test Result

Fundamental :

Site : No.3 OATS	Time : 2006/03/22 - 14:41
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2417 MHz)

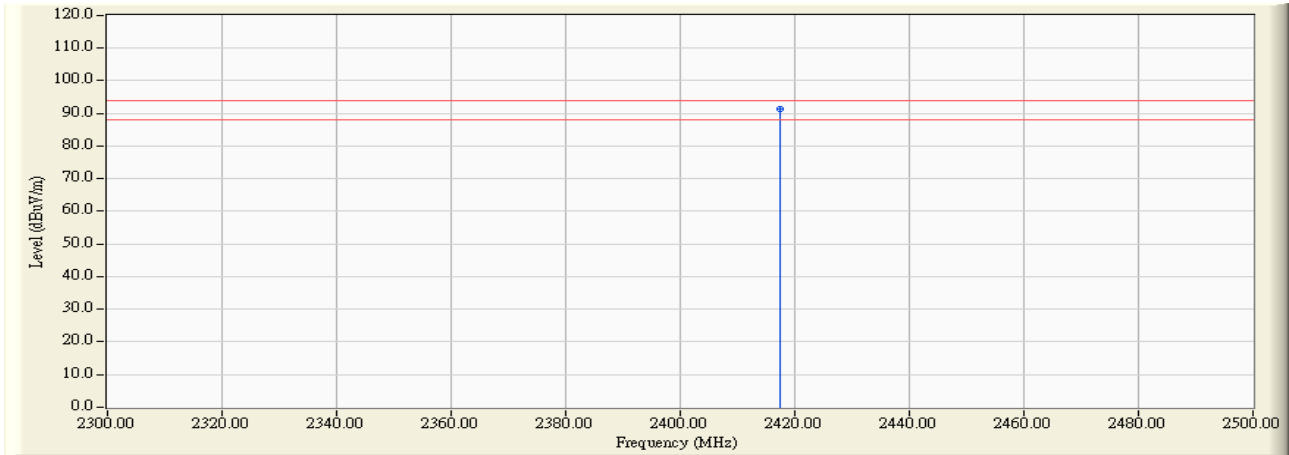


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2415.600	28.486	70.080	98.566	-15.434	114.000	PEAK	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:41
Limit : FCC_SpartC_15.249_F_03M_AV	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2417 MHz)

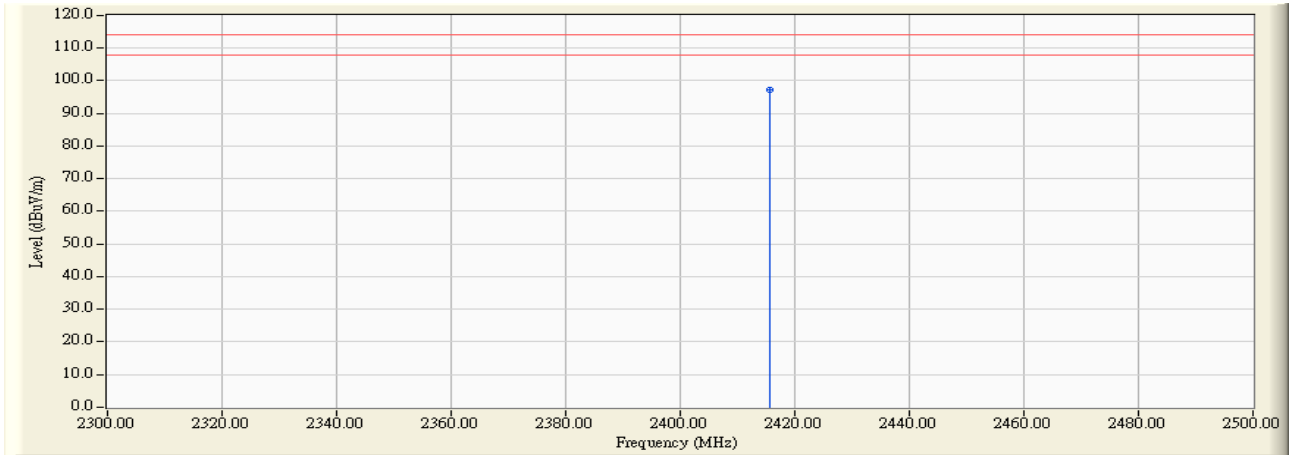


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2417.400	28.492	62.710	91.202	-2.798	94.000	AVERAGE	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:43
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2417 MHz)

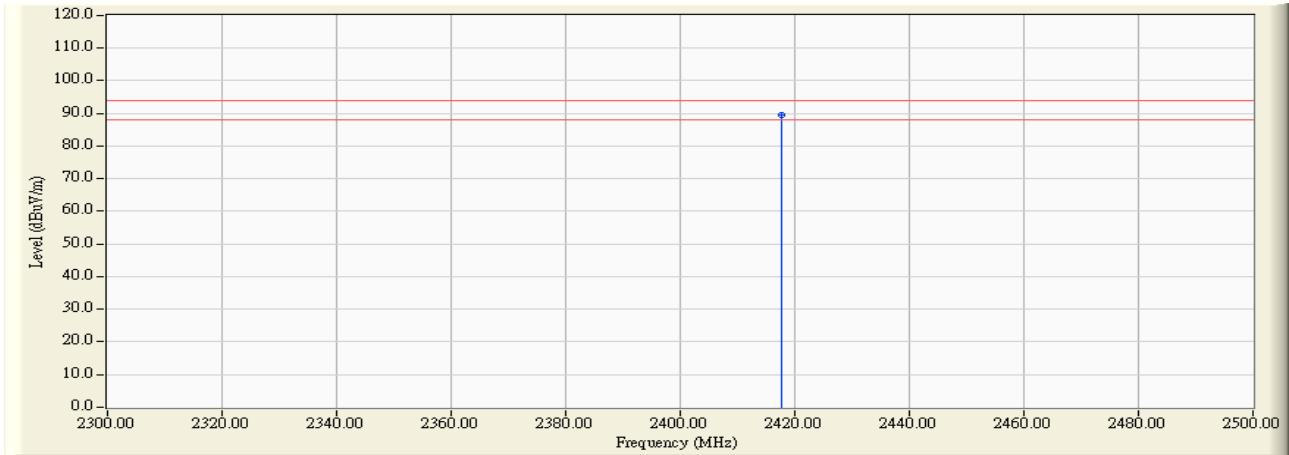


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2415.600	26.886	70.320	97.206	-16.794	114.000	PEAK	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:44
Limit : FCC_SpartC_15.249_F_03M_AV	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2417 MHz)

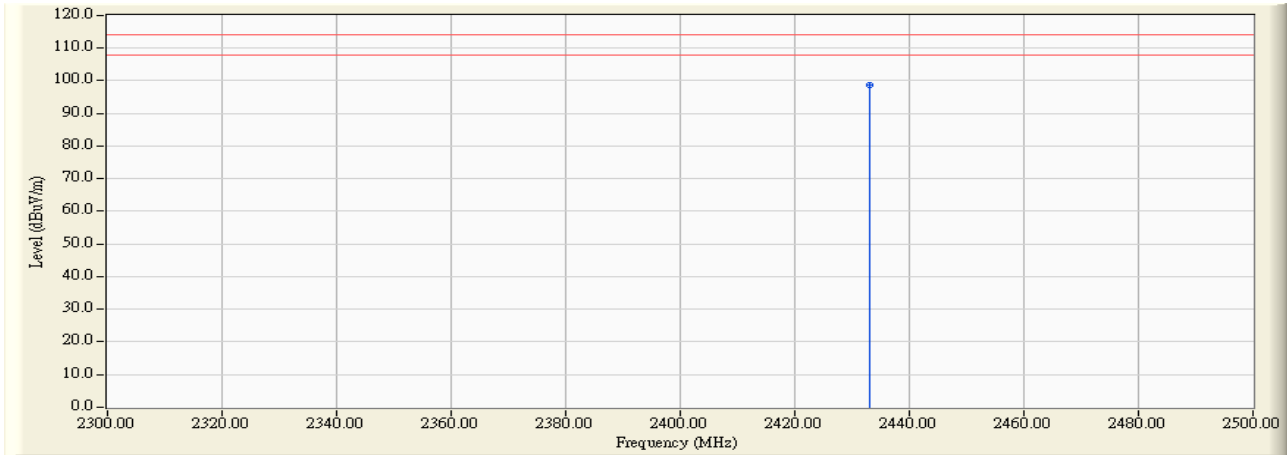


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2417.600	26.893	62.720	89.613	-4.387	94.000	AVERAGE	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:20
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2435 MHz)

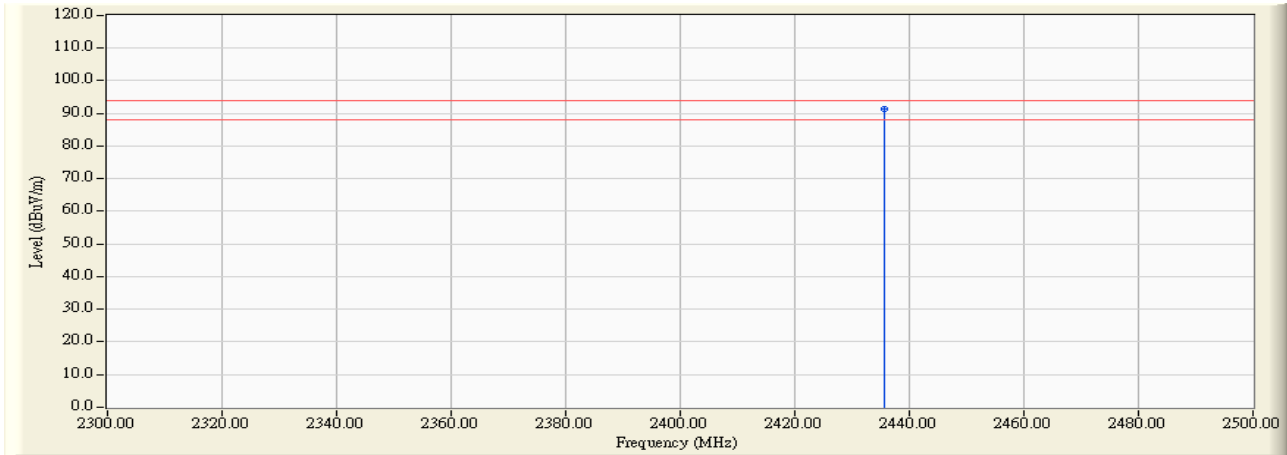


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2433.200	28.539	70.040	98.580	-15.420	114.000	PEAK	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:21
Limit : FCC_SpartC_15.249_F_03M_AV	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2435 MHz)

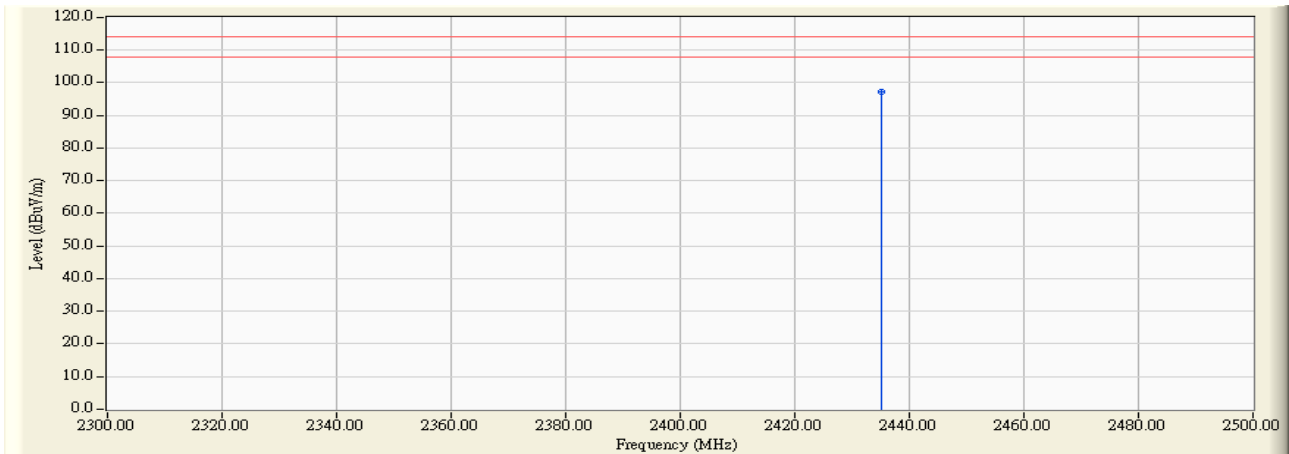


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2435.600	28.547	62.650	91.197	-2.803	94.000	AVERAGE	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:24
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2435 MHz)

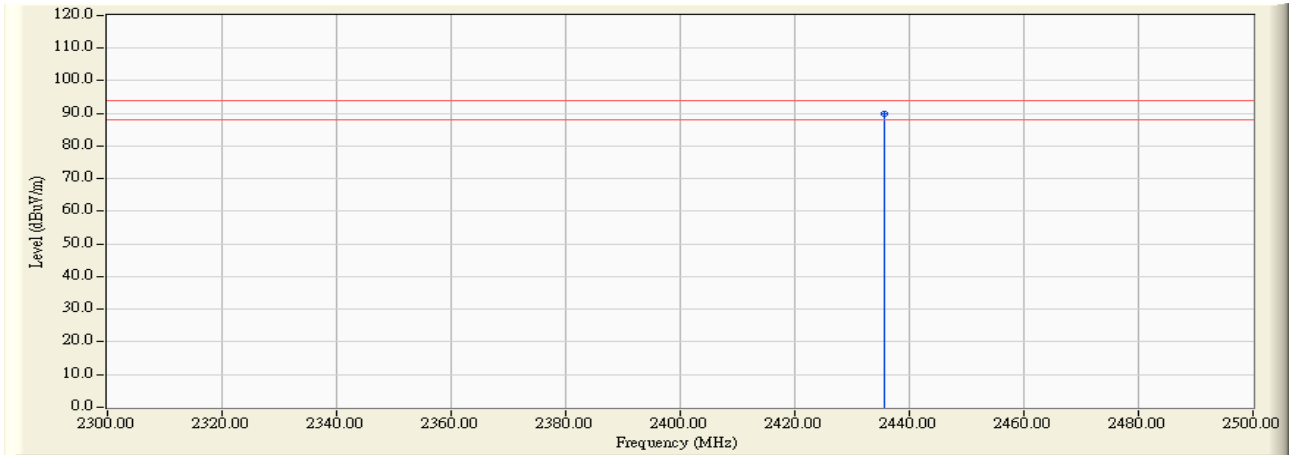


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2435.200	26.945	70.370	97.315	-16.685	114.000	PEAK	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:25
Limit : FCC_SpartC_15.249_F_03M_AV	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2435 MHz)

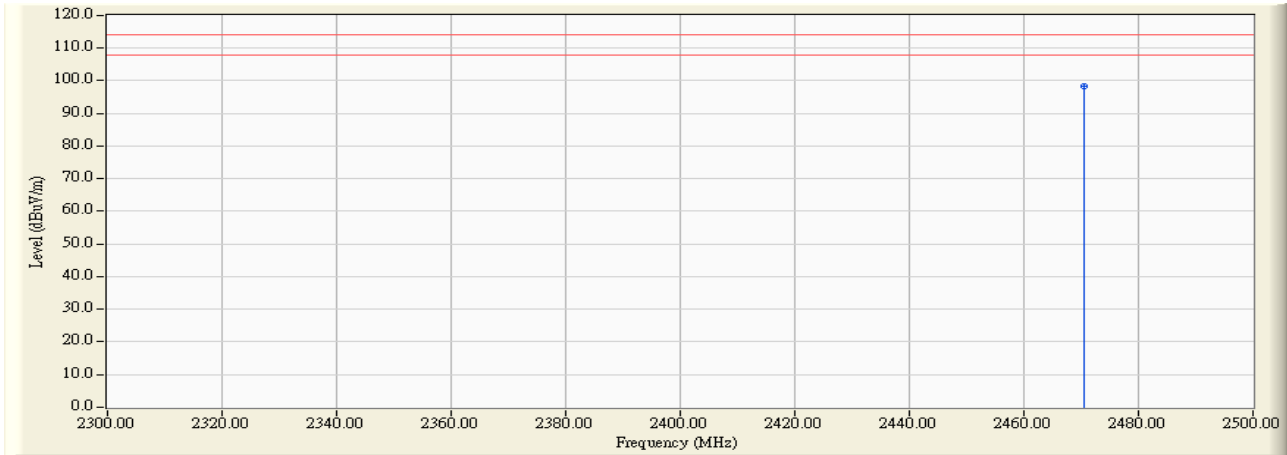


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2435.600	26.947	62.840	89.787	-4.213	94.000	AVERAGE	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:30
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2471 MHz)

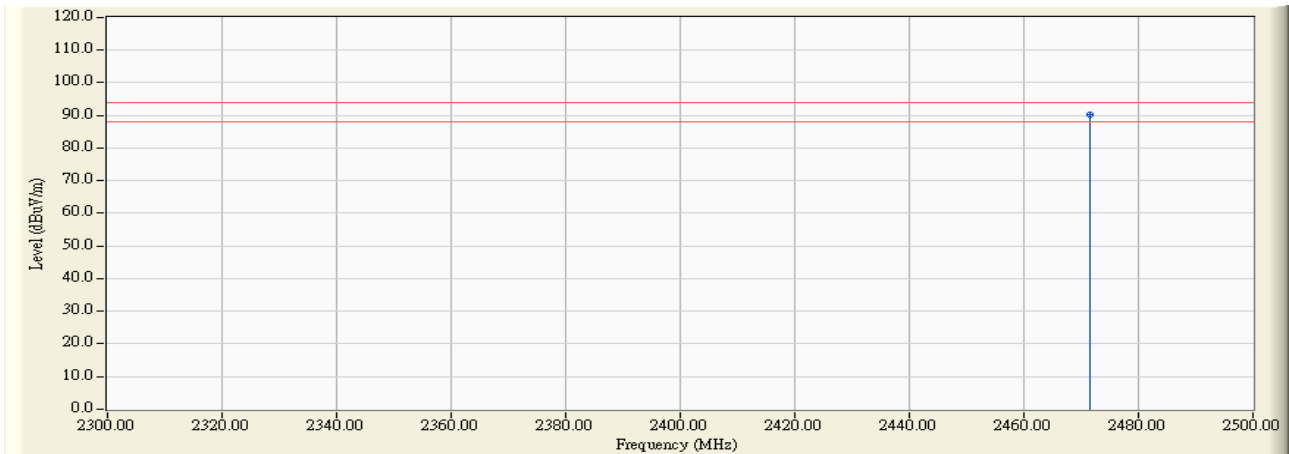


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2470.400	28.663	69.580	98.243	-15.757	114.000	PEAK	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:30
Limit : FCC_SpartC_15.249_F_03M_AV	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2471 MHz)

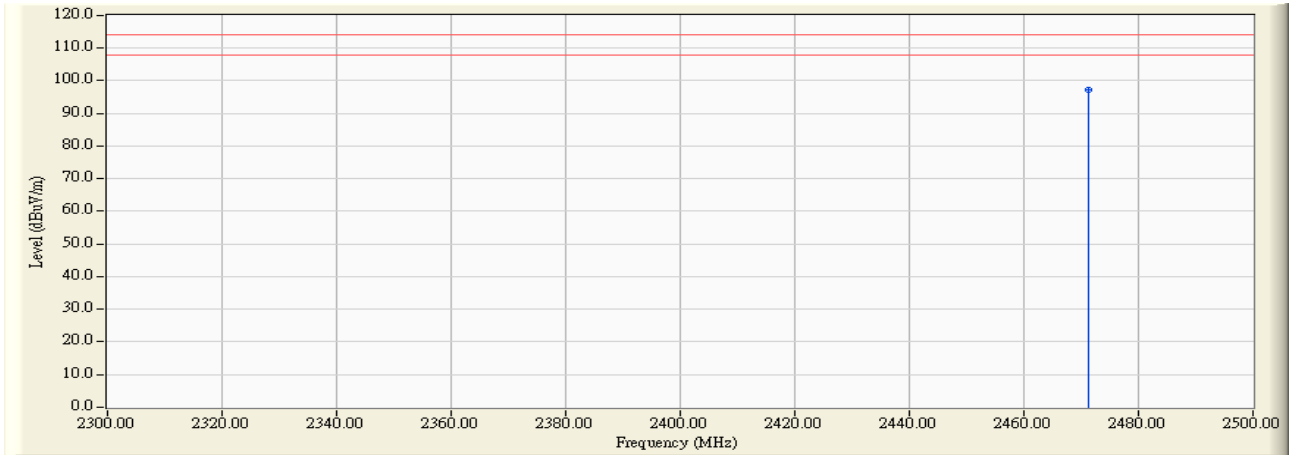


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2471.600	28.667	61.560	90.227	-3.773	94.000	AVERAGE	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:37
Limit : FCC_SpartC_15.249_F_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2471 MHz)

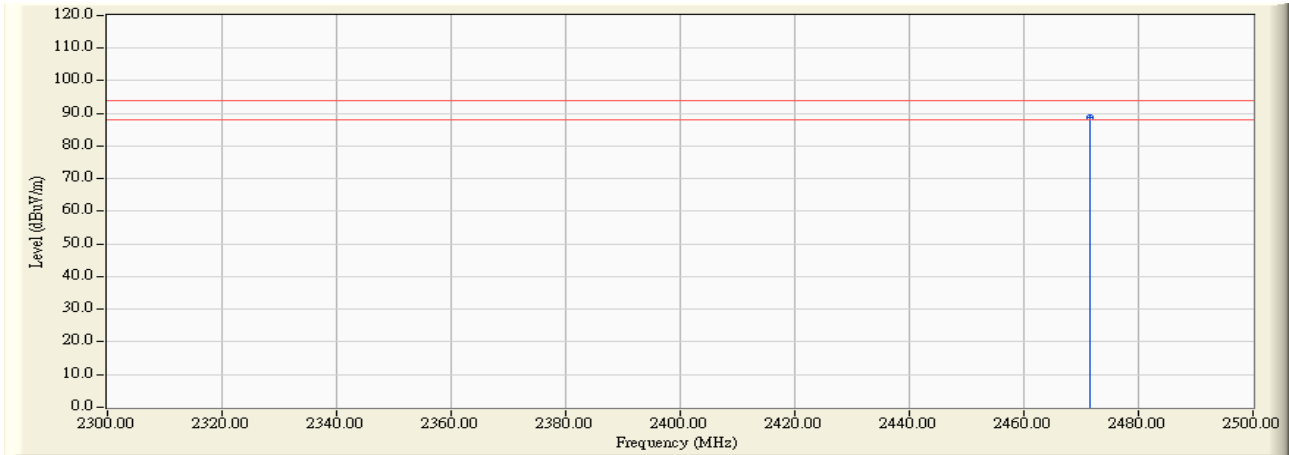


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2471.200	27.065	70.220	97.286	-16.714	114.000	PEAK	0.000	0.000

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 : No.3 OATS	Time : 2006/03/22 - 14:38
Limit : FCC_SpartC_15.249_F_03M_AV	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2471 MHz)



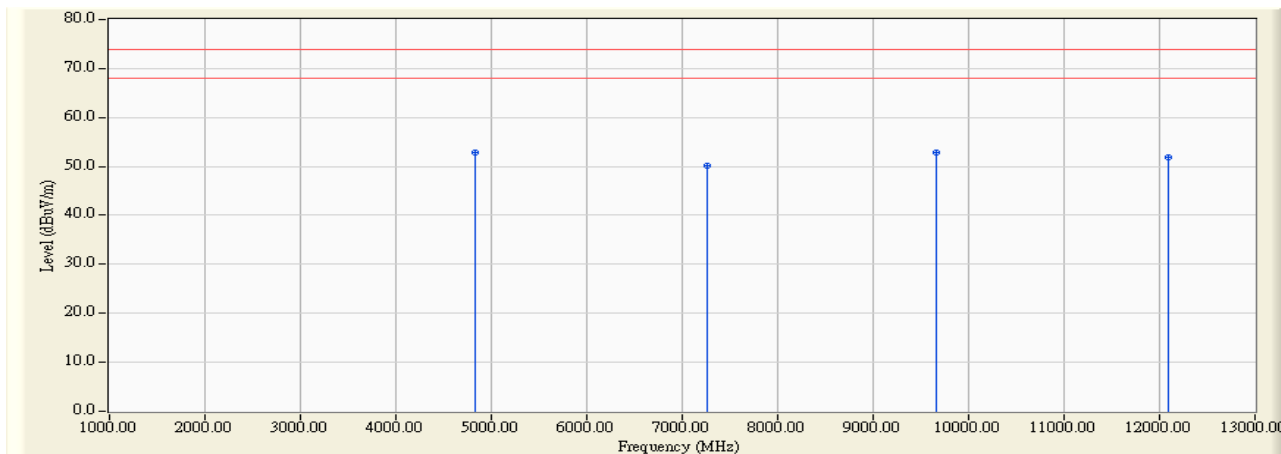
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/ m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2471.600	27.067	61.840	88.907	-5.093	94.000	AVERAGE	0.000	0.000

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

Spurious and Harmonics Emission :

Site : No.3 OATS	Time : 2006/03/22 - 11:58
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2417 MHz)

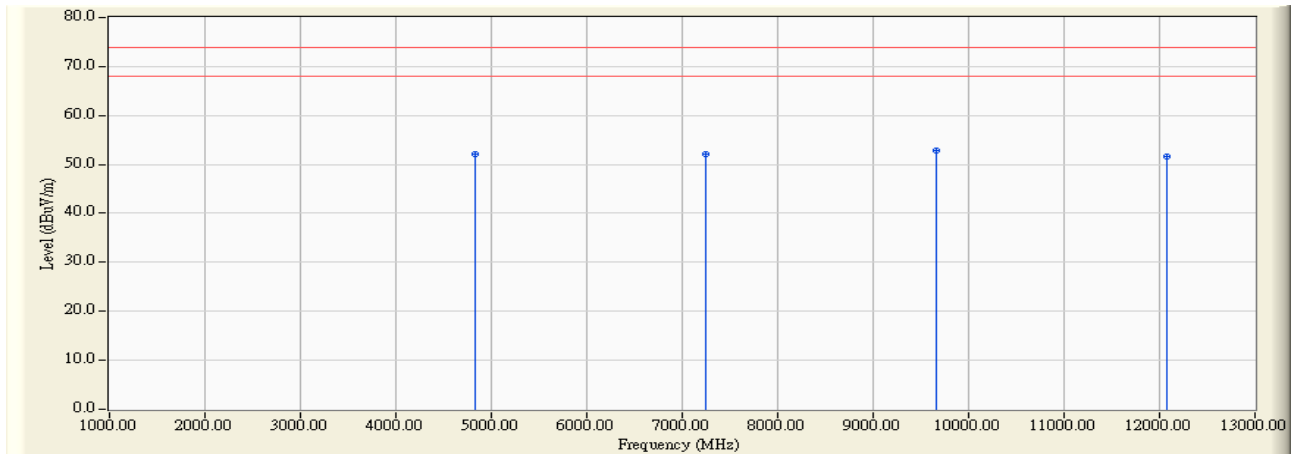


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	4831.600	2.807	50.120	52.927	-21.043	73.970	PEAK	0.000	0.000
2		7255.800	8.138	42.130	50.268	-23.702	73.970	PEAK	0.000	0.000
3		9667.400	11.545	41.230	52.776	-21.194	73.970	PEAK	0.000	0.000
4		12084.800	15.679	36.230	51.909	-22.061	73.970	PEAK	0.000	0.000

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

Site : No.3 OATS	Time : 2006/03/22 - 11:59
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2417 MHz)

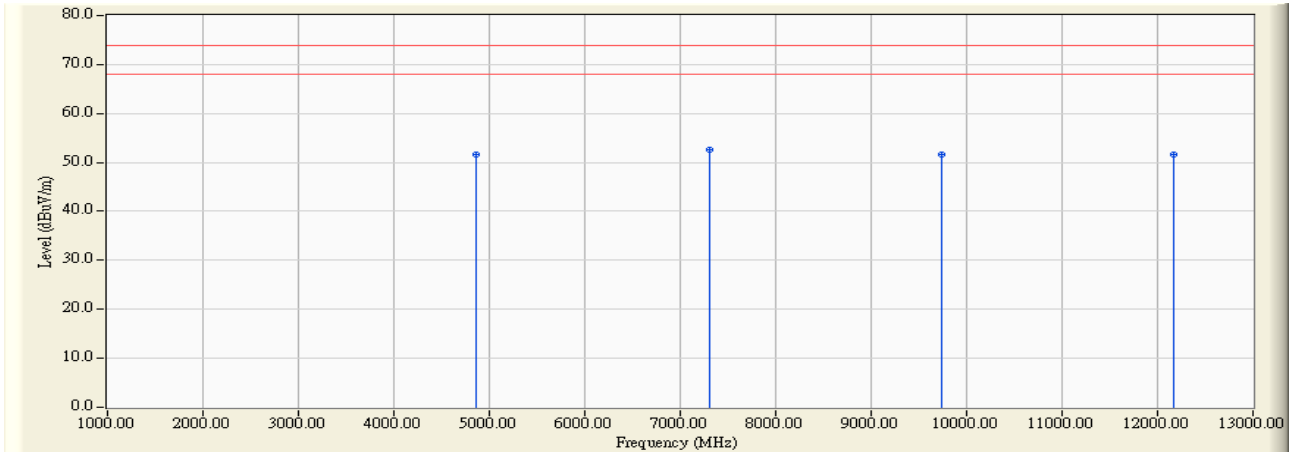


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	4836.400	1.100	51.060	52.160	-21.810	73.970	PEAK	0.000	0.000
2	7252.400	8.111	44.120	52.230	-21.740	73.970	PEAK	0.000	0.000
3	* 9668.600	13.546	39.230	52.776	-21.194	73.970	PEAK	0.000	0.000
4	12083.300	16.040	35.640	51.680	-22.290	73.970	PEAK	0.000	0.000

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

Site : No.3 OATS	Time : 2006/03/22 - 11:41
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2435 MHz)

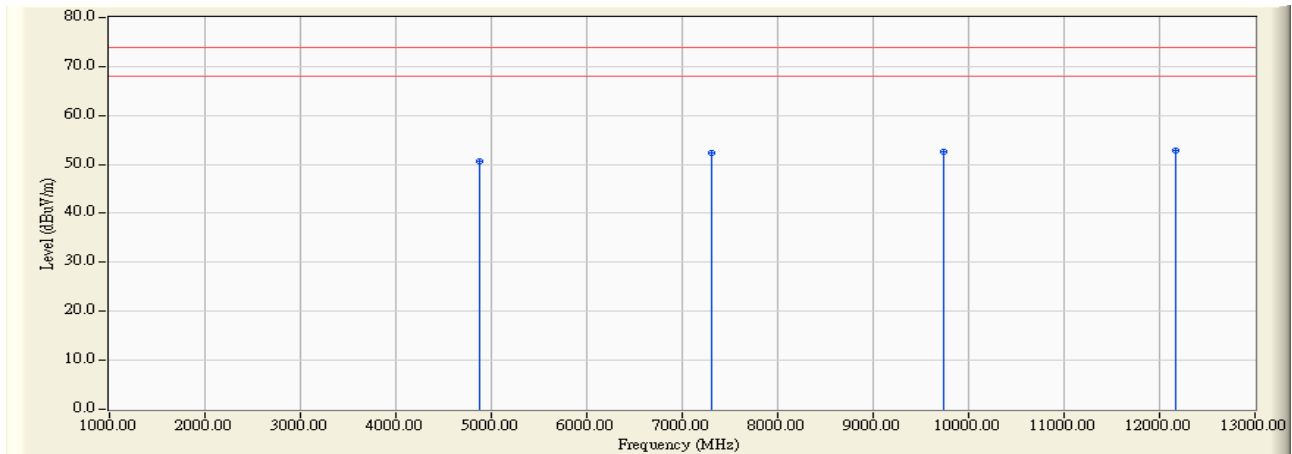


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	4868.600	2.979	48.690	51.669	-22.301	73.970	PEAK	0.000	0.000
2	* 7301.400	8.474	44.020	52.495	-21.475	73.970	PEAK	0.000	0.000
3	9740.800	11.601	40.020	51.620	-22.350	73.970	PEAK	0.000	0.000
4	12175.600	17.410	34.260	51.670	-22.300	73.970	PEAK	0.000	0.000

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

Site : No.3 OATS	Time : 2006/03/22 - 11:45
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2435 MHz)

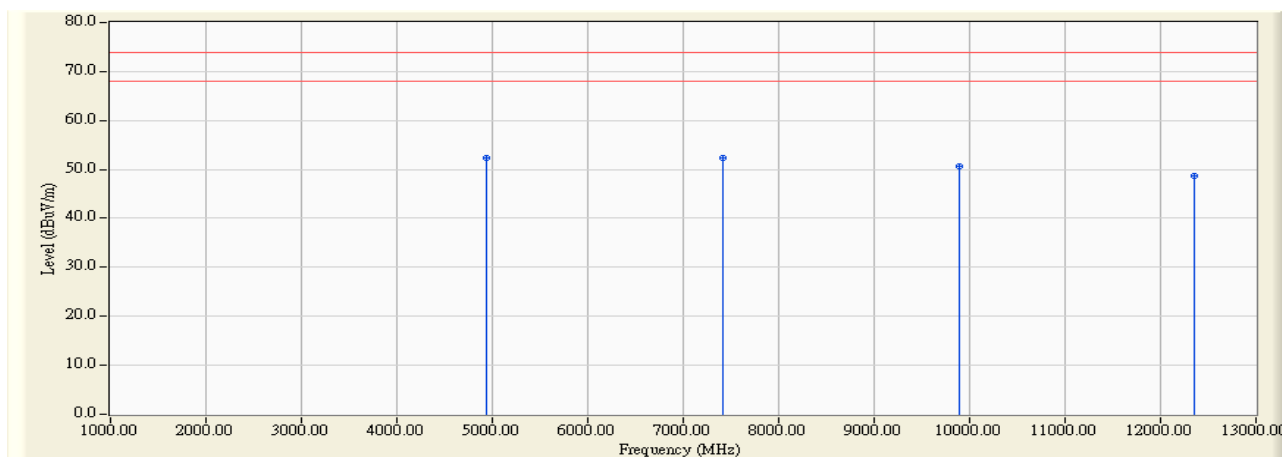


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	4870.300	1.327	49.300	50.627	-23.343	73.970	PEAK	0.000	0.000
2	7303.500	8.491	43.880	52.370	-21.600	73.970	PEAK	0.000	0.000
3	* 9744.600	13.603	39.020	52.623	-21.347	73.970	PEAK	0.000	0.000
4	* 12171.700	17.552	35.210	52.763	-21.207	73.970	PEAK	0.000	0.000

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

Site : No.3 OATS	Time : 2006/03/22 - 11:48
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2471 MHz)

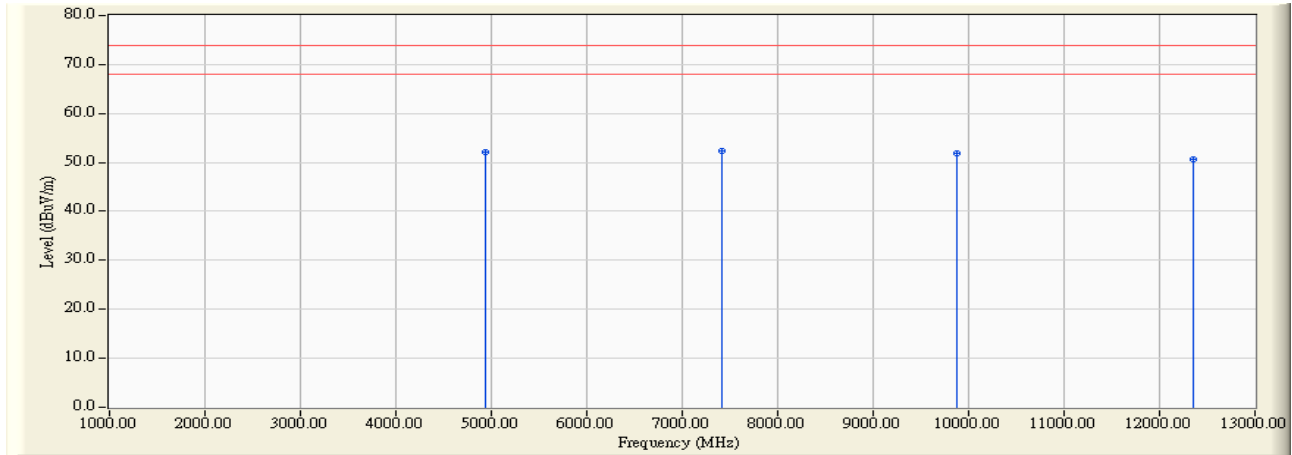


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	4942.600	3.303	49.020	52.323	-21.647	73.970	PEAK	0.000	0.000
2	* 7411.500	9.222	43.210	52.432	-21.538	73.970	PEAK	0.000	0.000
3	9885.200	12.375	38.260	50.634	-23.336	73.970	PEAK	0.000	0.000
4	12355.600	11.863	36.750	48.613	-25.357	73.970	PEAK	0.000	0.000

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

Site : No.3 OATS	Time : 2006/03/22 - 11:53
Limit : FCC_SpartC_15.249_H_03M_PK	Margin : 6
EUT : TTA-36T	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2471 MHz)

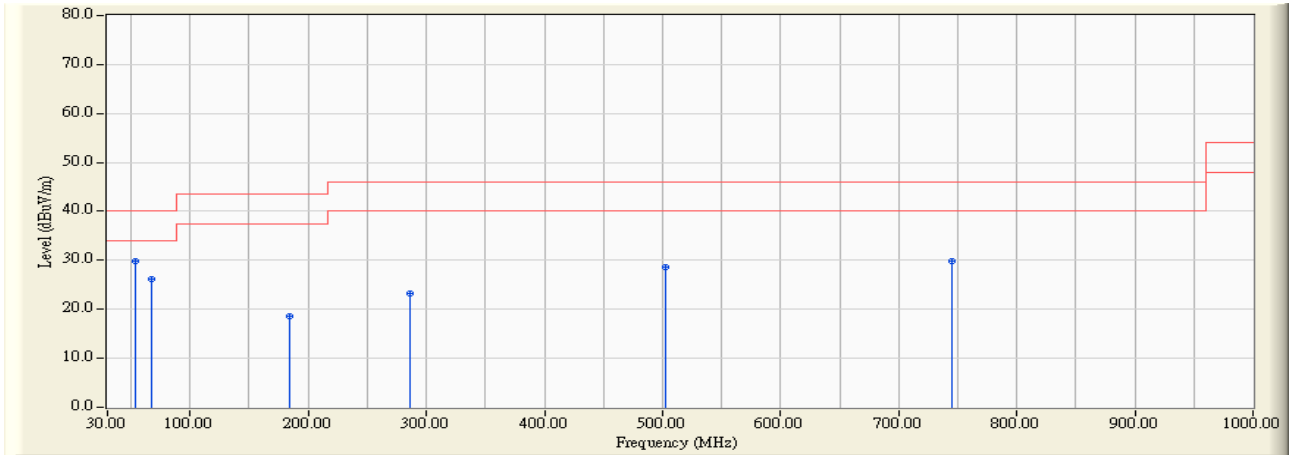


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	4941.300	1.781	50.320	52.102	-21.868	73.970	PEAK	0.000	0.000
2	* 7411.300	9.221	43.230	52.452	-21.518	73.970	PEAK	0.000	0.000
3	9882.800	13.525	38.250	51.775	-22.195	73.970	PEAK	0.000	0.000
4	12352.600	14.823	35.790	50.613	-23.357	73.970	PEAK	0.000	0.000

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

Site : No.3 OATS	Time : 2006/03/22 - 13:23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-36T	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2417 MHz)

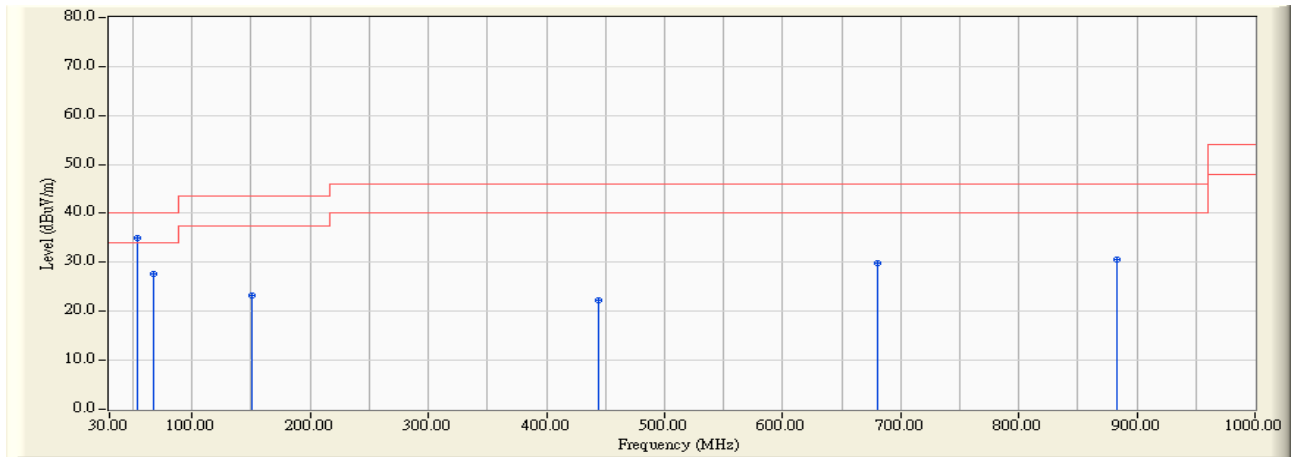


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	54.210	-1.106	30.980	29.875	-10.125	40.000	QUASPEAK	0.000	0.000
2		67.520	-1.450	27.520	26.070	-13.930	40.000	QUASPEAK	0.000	0.000
3		184.360	-8.950	27.630	18.679	-24.821	43.500	QUASPEAK	0.000	0.000
4		286.630	-5.391	28.630	23.239	-22.761	46.000	QUASPEAK	0.000	0.000
5		502.360	2.101	26.450	28.552	-17.448	46.000	QUASPEAK	0.000	0.000
6		745.360	4.221	25.640	29.861	-16.139	46.000	QUASPEAK	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 : No.3 OATS	Time : 2006/03/22 - 13:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-36T	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2417 MHz)

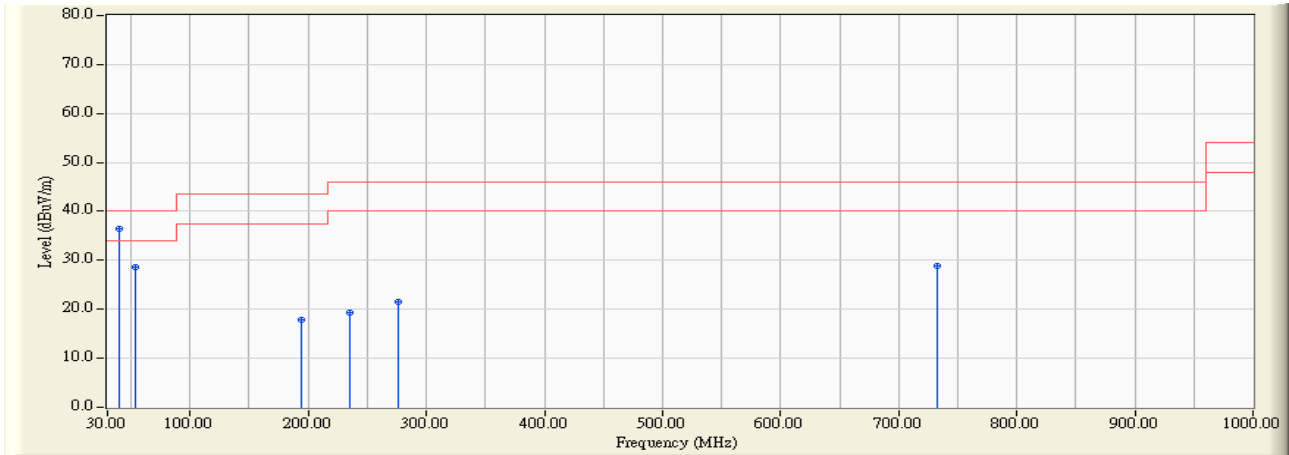


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	53.520	-2.565	37.630	35.065	-4.935	40.000	QUASIPeAK	0.000	0.000
2		67.620	-6.663	34.250	27.588	-12.412	40.000	QUASIPeAK	0.000	0.000
3		150.630	-5.088	28.450	23.363	-20.137	43.500	QUASIPeAK	0.000	0.000
4		443.520	-2.458	24.650	22.192	-23.808	46.000	QUASIPeAK	0.000	0.000
5		680.690	1.157	28.630	29.787	-16.213	46.000	QUASIPeAK	0.000	0.000
6		883.630	3.299	27.230	30.529	-15.471	46.000	QUASIPeAK	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 : No.3 OATS	Time : 2006/03/22 - 13:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-36T	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2435 MHz)

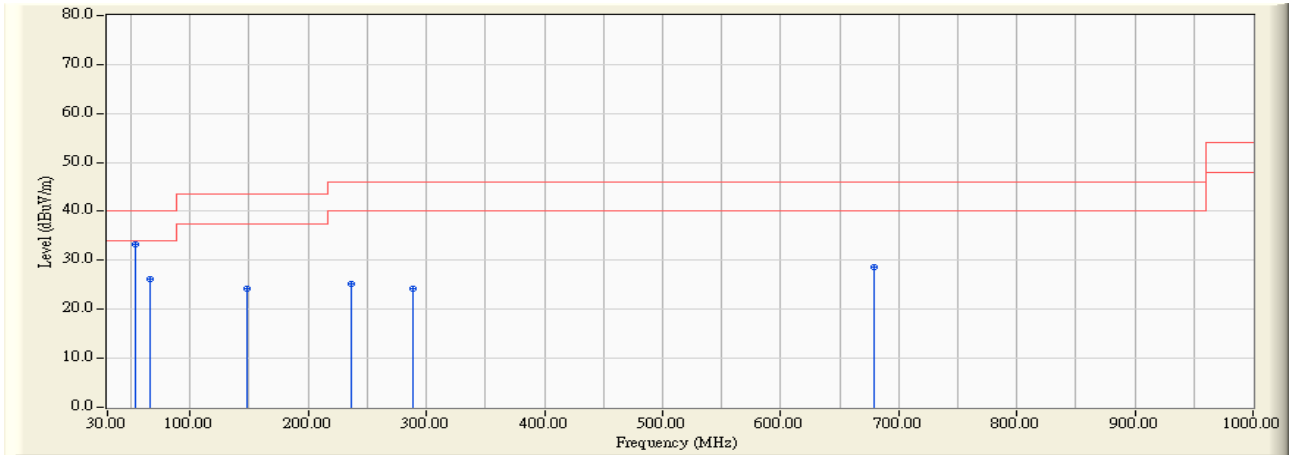


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	39.600	-0.928	37.260	36.332	-3.668	40.000	QUASIPeAK	0.000	0.000
2		53.260	-1.088	29.620	28.531	-11.469	40.000	QUASIPeAK	0.000	0.000
3		194.360	-8.338	26.310	17.972	-25.528	43.500	QUASIPeAK	0.000	0.000
4		234.630	-7.401	26.630	19.229	-26.771	46.000	QUASIPeAK	0.000	0.000
5		276.440	-5.229	26.780	21.551	-24.449	46.000	QUASIPeAK	0.000	0.000
6		732.320	5.794	23.162	28.956	-17.044	46.000	QUASIPeAK	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 : No.3 OATS	Time : 2006/03/22 - 13:16
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-36T	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2435 MHz)

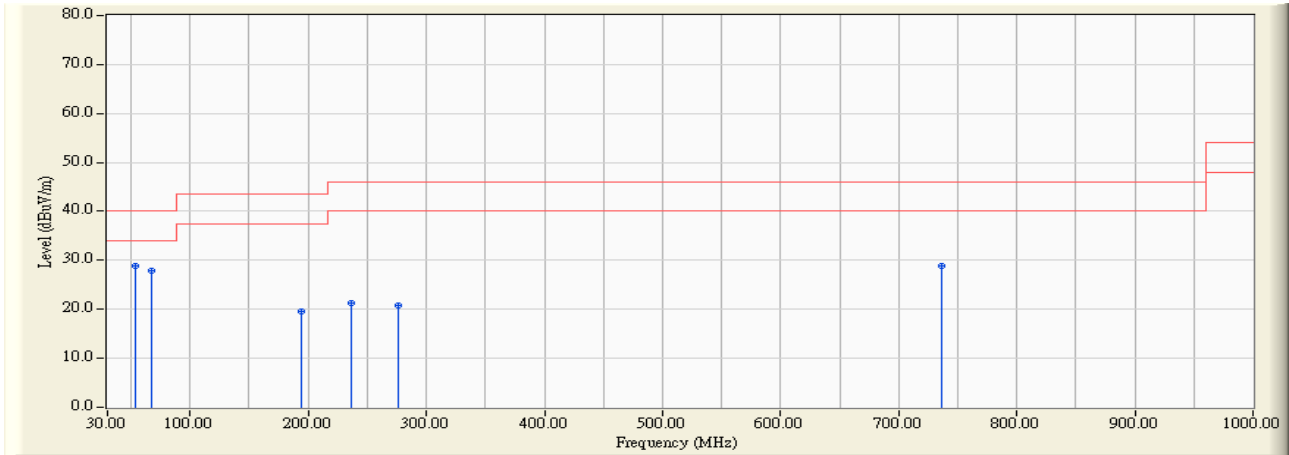


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	53.260	-2.483	35.860	33.377	-6.623	40.000	QUASIPeAK	0.000	0.000
2		66.560	-6.517	32.690	26.173	-13.827	40.000	QUASIPeAK	0.000	0.000
3		148.450	-5.304	29.630	24.327	-19.173	43.500	QUASIPeAK	0.000	0.000
4		236.620	-4.155	29.410	25.255	-20.745	46.000	QUASIPeAK	0.000	0.000
5		288.600	-8.524	32.630	24.106	-21.894	46.000	QUASIPeAK	0.000	0.000
6		678.630	1.228	27.360	28.588	-17.412	46.000	QUASIPeAK	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 : No.3 OATS	Time : 2006/03/22 - 13:18
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-36T	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2471 MHz)

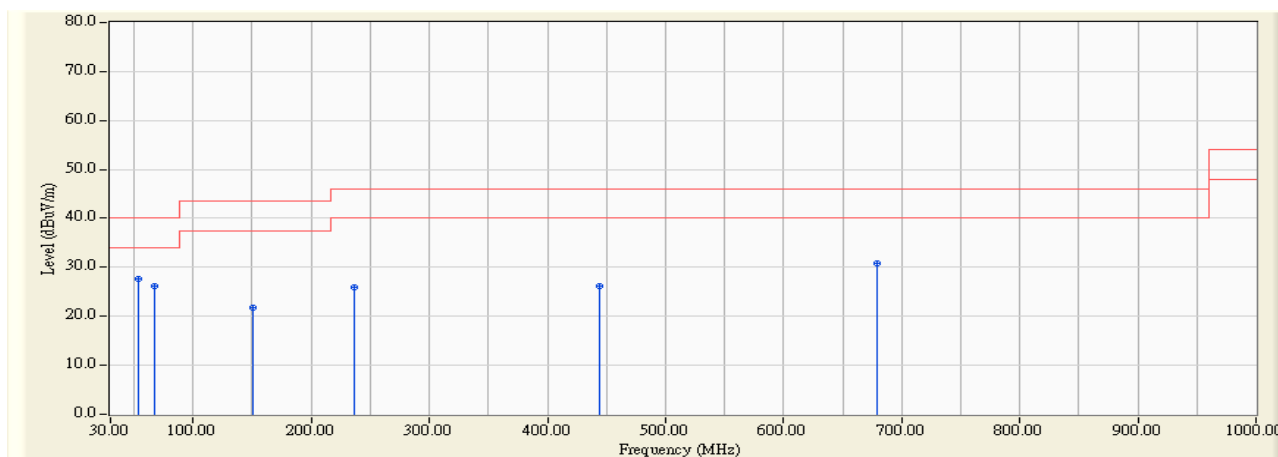


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	53.260	-1.088	29.850	28.761	-11.239	40.000	QUASPEAK	0.000	0.000
2		66.960	-1.429	29.230	27.800	-12.200	40.000	QUASPEAK	0.000	0.000
3		194.600	-8.327	28.000	19.672	-23.828	43.500	QUASPEAK	0.000	0.000
4		236.250	-7.240	28.630	21.389	-24.611	46.000	QUASPEAK	0.000	0.000
5		276.260	-5.227	26.126	20.899	-25.101	46.000	QUASPEAK	0.000	0.000
6		736.320	5.273	23.630	28.902	-17.098	46.000	QUASPEAK	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 : No.3 OATS	Time : 2006/03/22 - 13:20
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : TTA-36T	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit (2471 MHz)



		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	*	53.260	-2.483	30.230	27.747	-12.253	40.000	QUASIPeAK	0.000	0.000
2		66.860	-6.556	32.620	26.064	-13.936	40.000	QUASIPeAK	0.000	0.000
3		150.630	-5.088	26.960	21.873	-21.627	43.500	QUASIPeAK	0.000	0.000
4		236.630	-4.155	30.120	25.965	-20.035	46.000	QUASIPeAK	0.000	0.000
5		443.650	-2.509	28.630	26.120	-19.880	46.000	QUASIPeAK	0.000	0.000
6		678.630	1.228	29.630	30.858	-15.142	46.000	QUASIPeAK	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

4. Band Edge

4.1. Test Equipment

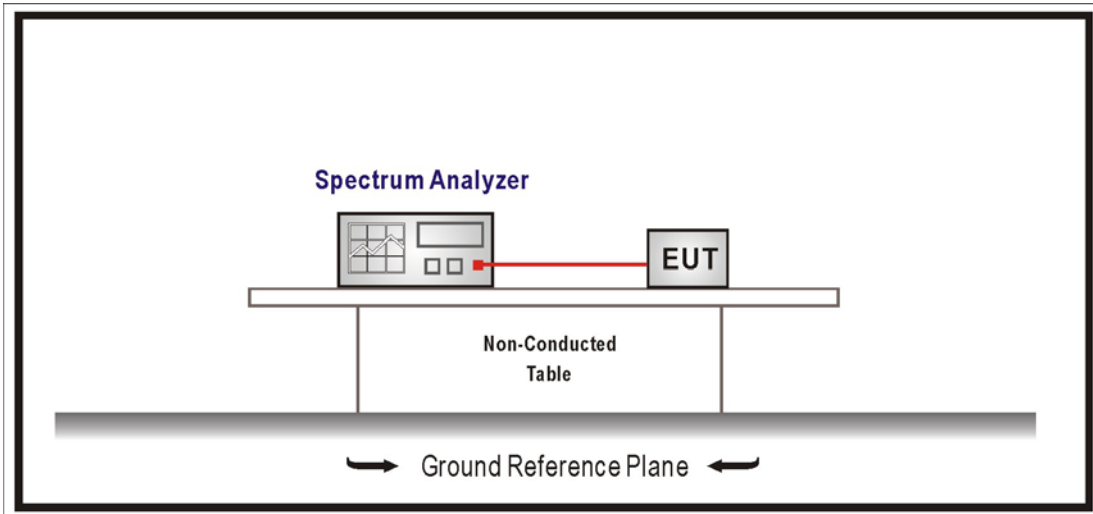
The following test equipment are used during the test:

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

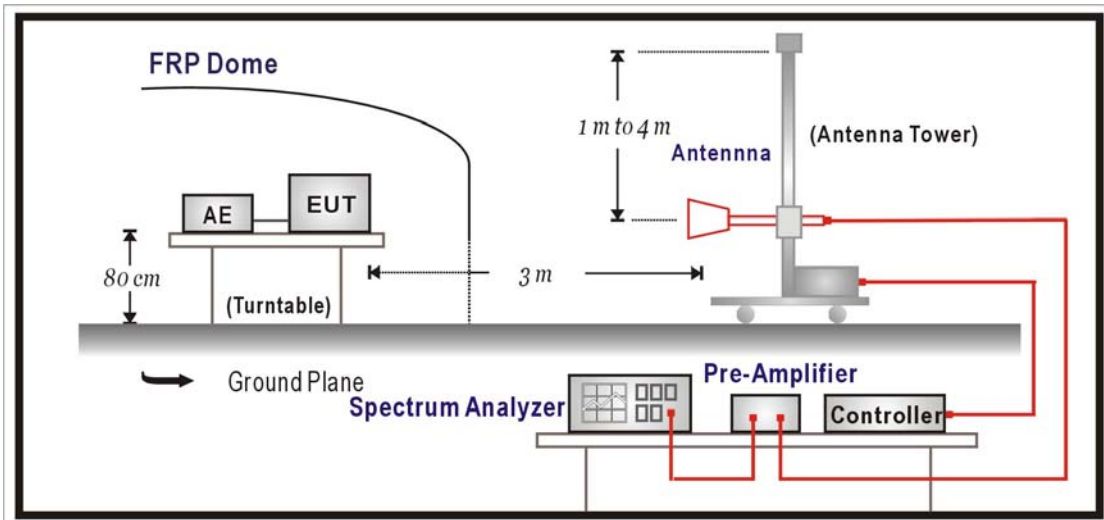
- Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

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

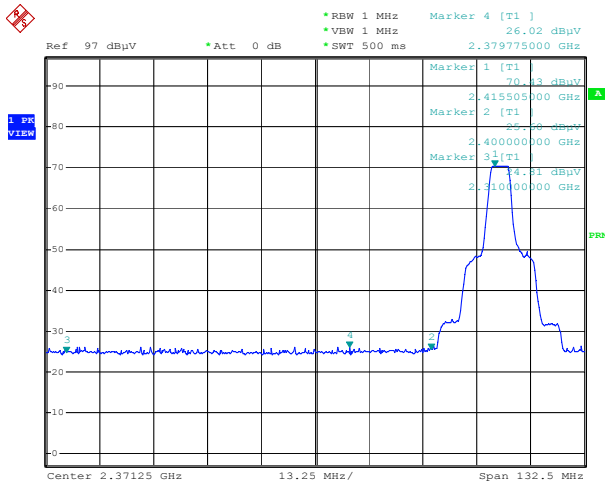
Product	Wireless B&W camera		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/22	Test Site	No.1 OATS

2417 MHz

RF Radiated Measurement: (Peak Detector)

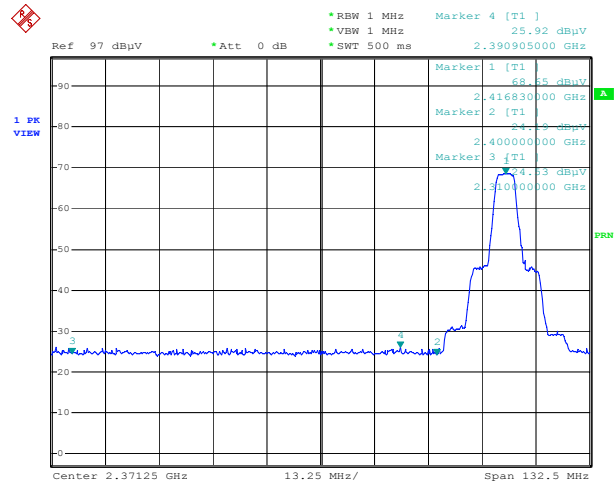
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
Horizontal	2379.700	26.020	24.440	3.918	0.00	54.377	74.000	Pass
Vertical	2379.500	25.920	22.878	3.920	0.00	52.718	74.000	Pass

Horizontal



Date: 22.MAR.2006 16:42:30

Vertical



Date: 22.MAR.2006 16:53:51

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.

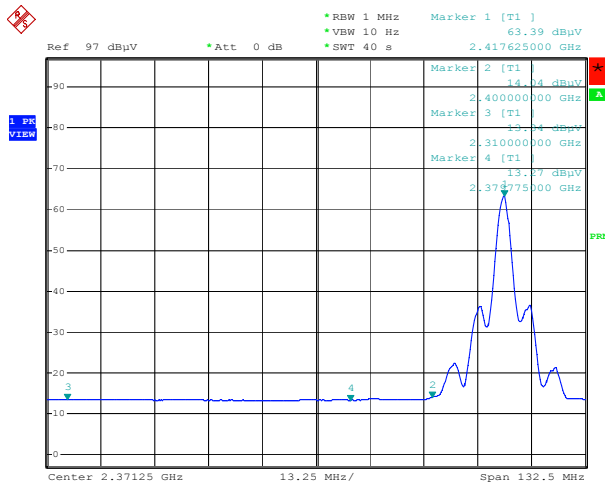
Product	Wireless B&W camera		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/22	Test Site	No.1 OATS

2417 MHz

RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
Horizontal	2379.700	13.250	24.440	3.918	0.00	41.607	54.000	Pass

Horizontal



Date: 22.MAR.2006 16:47:51

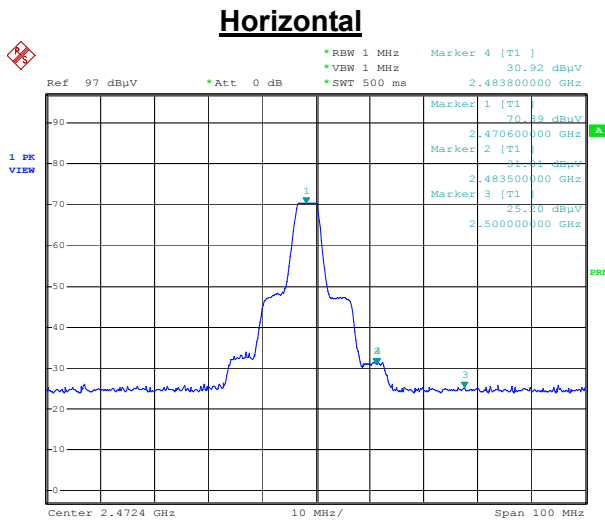
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Wireless B&W camera		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/22	Test Site	No.1 OATS

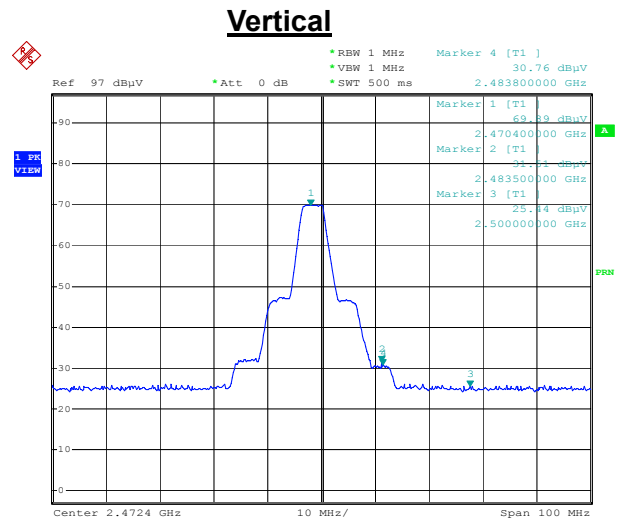
2471 MHz

RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
Horizontal	2483.800	30.920	24.721	3.991	0.00	59.632	74.000	Pass
Vertical	2483.800	30.760	23.121	3.991	0.00	57.872	74.000	Pass



Date: 22.MAR.2006 17:01:28



Date: 22.MAR.2006 17:19:53

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.

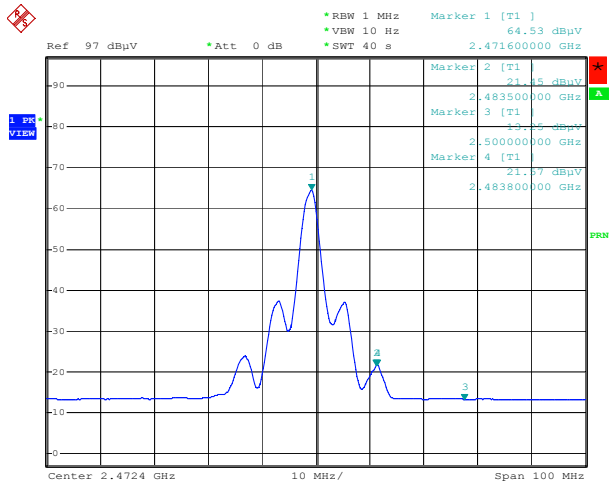
Product	Wireless B&W camera		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/22	Test Site	No.1 OATS

2471 MHz

RF Radiated Measurement: (Average Detector)

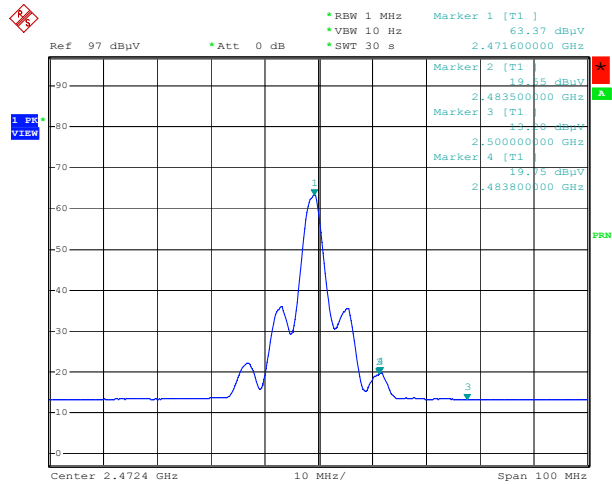
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
Horizontal	2483.800	21.570	24.721	3.991	0.00	50.282	54.000	Pass
Vertical	2483.800	19.750	23.121	3.991	0.00	46.862	54.000	Pass

Horizontal



Date: 22.MAR.2006 17:05:13

Vertical



Date: 22.MAR.2006 17:25:21

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.