



Test Report

For

Applicant : AIRWAVE TECHNOLOGIES INC.
Equipment Type : Viedo Sender
Model : AWW101TX
FCC ID : NGVAWV101TX

Report No. : 013H077FI



Test Report Certification

Quietek Corporation

No.75-1, Wang-Yeh Valley, Yung-Hsing, Chiung-Lin,

Hsin-Chu County, Taiwan, R.O.C.

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E-Mail : quietek@ms24.hinet.net

Accredited by NIST(NVLAP), VCCI, BSMI, DNV, TUV

Applicant : AIRWAVE TECHNOLOGIES INC.
Address : 3F, No.9, Industry E. Rd. IX, Science-Based Industrial Park,
Hsin Chu, Taiwan, R.O.C.
Equipment Type : Video Sender
Model : AWV101TX
FCC ID. : NGVAWV101TX
Measurement Standard : FCC Part 15 Subpart C Paragraph 15.249
Measurement Procedure : ANSI C63.4 /1992
Operation Voltage : 120VAC/60Hz
Test Result : Complied
Test Date : March 26, 2001
Report No. : 013H077FI



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.

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented by: Rosita Lu

Test Engineer: Calien Kang

Approved: Gene Chang

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Handwritten signature of Calien Kang in black ink.

Handwritten signature of Gene Chang in black ink.



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1. General Information

1.1 EUT Description

Applicant	: AIRWAVE TECHNOLOGIES INC.
Address	: 3F, No.9, Industry E. Rd. IX, Science-Based Industrial Park, Hsin Chu, Taiwan, R.O.C.
Equipment Type	: Viedo Sender
Model	: AWW101TX
FCC ID	: NGVAWV101TX
Operation Voltage	: 120VAC/60Hz
Frequency Range	: 2400 MHz to 2483.5MHz
Channel Number	: 4
Frequency of each Channel Working Frequency	: Channel 1: 2414MHz, Channel 2: 2432MHz, Channel 3: 2450MHz, Channel 4: 2468MHz
Type of Modulation	: FM
Operator Selection of Operating Frequency	: Manual Switch
RCA Cable (3-3)	: Non-shielded, 1.8m
Power Adapter	: DVE, DV-9300S Cable Out: Non-shielded, 1.8m

- Remark :
1. This device is a Viedo Sender 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 for non-spread spectrum devices.
 3. This device is a composite device in accordance with Part 15 regulations. The receiver was measured and made a test report that the report number is 013H066F under verification.



1.2 Tested System Details

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

1.2.1 Viedo Sender(EUT)

Model Number : A WV101TX
Serial Number : N/A
FCC ID : NGVA WV101TX
Manufacturer : AIRWAVE TECHNOLOGIES INC.
RCA Cable (3-3) : Non-shielded, 1.8m
Power Adapter : DVE , DV-9300S
Cable Out: Non-shielded, 1.8m

1.2.2 DVD

Model Number : DVD-A120TN
Serial Number : 9542160
FCC ID : DoC
Manufacturer : Panasonic
Power Cord : Non-shielded,1.7m

1.2.3 Vehicle Wireless theater(RX)

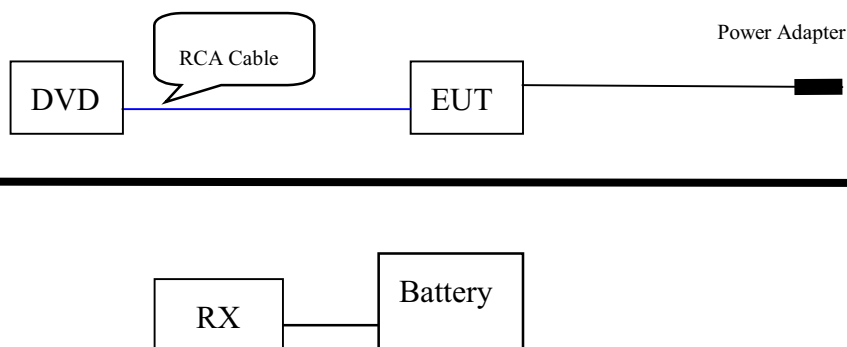
Model Numberss : VWT68XN
Serial Number : N/A
FCC ID : Vertification
Manufacturer : HAMG SHING INDUSTRY CO., LTD.

1.2.4 DC 12V Battery

Model Number : NS40ZL
Serial Number : N/A
FCC ID : DoC
Manufacturer : Panasonic



1.3 EUT Configuration



1.4 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

- 1.4.1 Setup the EUT and display as shown on 1.3.
- 1.4.2 Turn on the power of all equipment.
- 1.4.3 The EUT will transmit the radio signal form transmitter.
- 1.4.4 Repeat the above procedure 1.4.2 to 1.4.3

1.5 Test performed

Conducted emissions were invested over the frequency range from **0.45MHz to 30MHz** using a receiver bandwidth of 9kHz.

Radiated emissions were invested over the frequency range from **30MHz to 1000MHz** using a receiver bandwidth of 120kHz and the frequency range from **1GHz to 24GHz** using a receiver bandwidth of 1MHz.

Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.6 Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: November 3, 1998 File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2



September 30, 1998 Accreditation on NVLAP
NVLAP Lab Code: 200347-0

February 23, 1999 Accreditation on DNV
Statement No. : 413-99-LAB11



December 8, 1998 Registration on VCCI
Registration No. for No.2 Shielded Room C-858
Registration No. for No.1 Open Area Test Site R-823
Registration No. for No.2 Open Area Test Site R-835



January 04, 1999 Accreditation on TÜV Rheinland
Certificate No.: I9865712-9901



Name of firm : QuieTek Corporation

Site location : No.75-1, Wang-Yeh Valley, Yung-Hsing Tsuen,
Chiung-Lin, Hsin-Chu County, Taiwan, R.O.C.



2. Conducted Emission

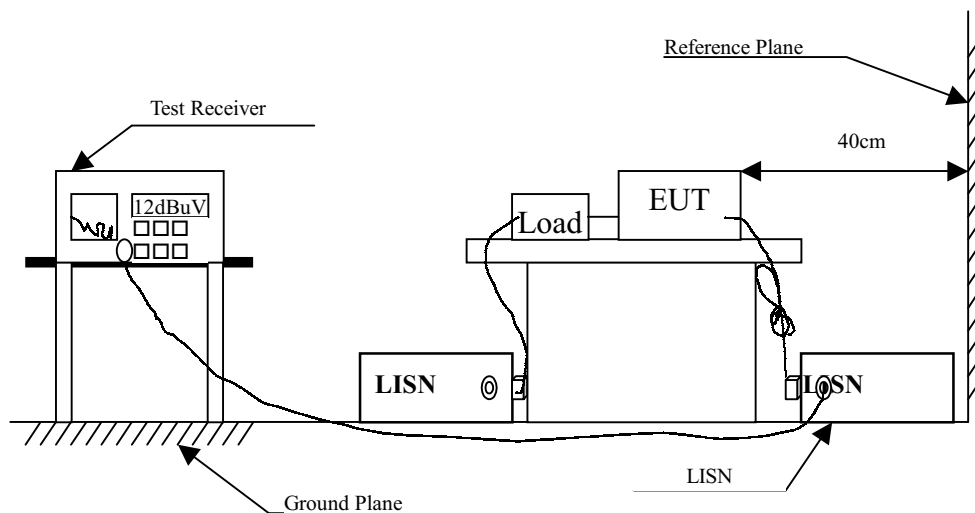
2.1 Test Equipment List

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2000	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2000	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2000	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	N/A	
5	N0.2 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 Paragraph 15.207 (dBuV)		
Frequency MHz	Limits	
	uV	dBuV
0.45 - 30	250	48.0

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 refer 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 /1992 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

2.5 Test Results

The conducted emission from the EUT is measured and shown in Attachment 1. The acceptance criterion was met and the EUT passed the test.



3. Radiated Emission

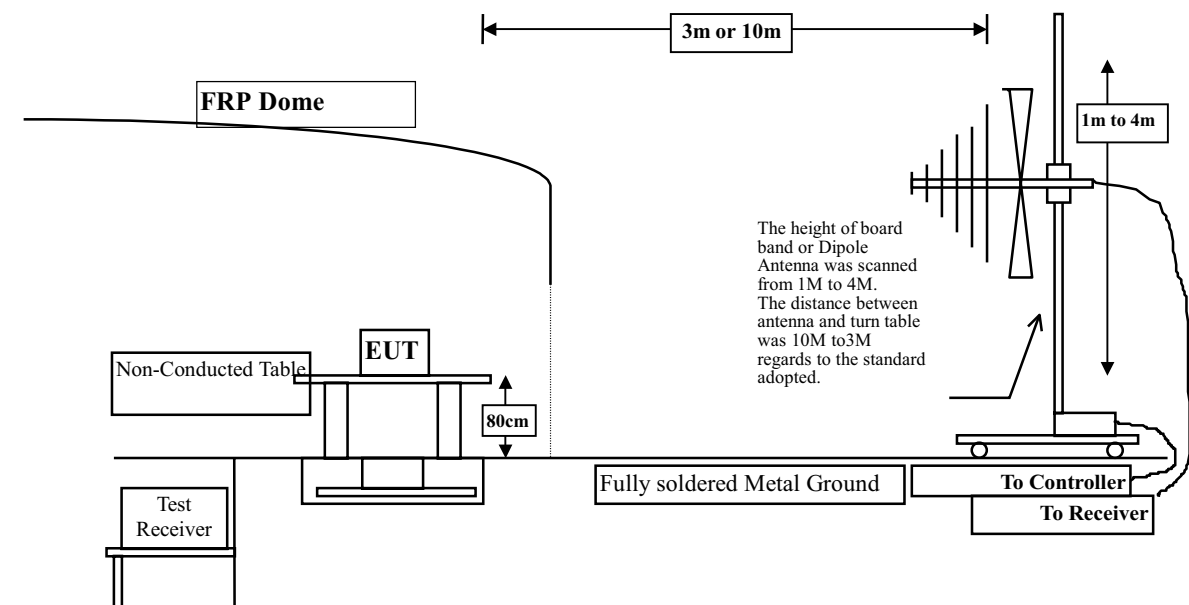
3.1 Test Equipment

The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	X	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2000
		Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2000
		Pre-Amplifier	HP	8447D/3307A01812	May, 2000
	X	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2000
	X	Horn Antenna	EM	EM6917 / 103325	May, 2000
Site # 2	X	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2000
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2000
		Pre-Amplifier	HP	8447D/3307A01814	May, 2000
	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2000
	X	Horn Antenna	EM	EM6917 / 103325	May, 2000

- Note:
1. All equipment upon which need to calibrated are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

3.2 Test Setup



3.3 Limits

➤ Fundamental and Harmonics Emission Limits

Frequency MHz	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m @3m)	(dBuV/m @3m)	(uV/m @3m)	(dBuV/m @3m)
2400-2483.5	50	94 (Average)	500	54 (Average)
		114 (Peak)		74 (Peak)

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

Frequency MHz	50dB below of the fundamental (dBuV/m @3m)	15.209 Limits (dBuV/m @3m)	General Radiated Limits (dBuV/m @3m)
30-88	40	40	40
88-216	43.5	43.5	43.5
216-960	44	46	46
Above 960	44	54	54

Remarks : 1. RF Line Voltage (dBuV) = 20 log RF Line 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 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 /1992 on radiated measurement.

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

3.5 Test Results

The radiated emission from the EUT is measured and shown in Attachment 1. The acceptance criterion was met and the EUT passed the test.



4. EMI Reduction Method During Compliance Testing

No modification was made during testing.



5. Attachment

Attachment 1: Summary of Test Results	Number of Pages: 11
Attachment 2: EUT Test Photographs	Number of Pages: 3
Attachment 3: EUT Detailed Photographs	Number of Pages: 10



Attachment 1 : Summary of Test Results

The test results in the emission were performed according to the requirements of measurement standard and process. QuieTek Corporation is assumed full responsibility for the accuracy and completeness of these measurements. The test data of the emission are listed as the attached data.

All the tests were carried out with the EUT in normal operation, which was defined as:

- (1) Channel 1
- (2) Channel 2
- (3) Channel 4

The EUT passed all the tests.

The uncertainty is calculated in accordance with NAMAS NIS 81, The total uncertainty for this test is as follows:

➤ **Emission Test**

- Uncertainty in the Conducted Emission Test: $< \pm 2.0 \text{ dB}$
- Uncertainty in the field strength measured: $< \pm 4.0 \text{ dB}$



CONDUCTED EMISSION DATA

Date of Test	:	March 26, 2001	EUT	:	Viedo Sender
Test Mode	:	Channel 1	Detect Mode	:	Quasi-Peak

Frequency	Cable Loss	LISN Factor	Reading Level	Measurement Level	Limits
MHz	dB	dB	dBuV	dBuV	dBuV

Line 1:

*0.484	0.06	0.10	40.99	41.15	48.00
0.521	0.07	0.10	38.41	38.58	48.00
0.563	0.07	0.10	35.37	35.54	48.00
0.626	0.08	0.10	31.54	31.72	48.00
0.680	0.08	0.10	28.61	28.79	48.00
25.821	0.38	0.54	18.44	19.37	48.00

Line 2:

*0.478	0.06	0.10	28.47	28.63	48.00
0.501	0.06	0.10	25.94	26.10	48.00
0.516	0.07	0.10	23.96	24.13	48.00
0.528	0.07	0.10	22.49	22.66	48.00
0.555	0.07	0.10	19.22	19.39	48.00
25.598	0.38	0.54	13.98	14.90	48.00

Remarks :

1. “ * ” means that this data is the worst emission level.



Fundamental Radiated Emission Data

Date of Test	:	March 26, 2001	EUT	:	Viedo Sender
Test Mode	:	Normal	Test Site	:	Open Site 2

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss	Factor		Level					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg

Peak Detector (Horizontal)

Channel 1

2413.890	3.84	29.26	34.90	85.74	83.94	30.06	114.00	0	0
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Channel 2

2431.950	3.86	29.31	34.90	83.81	82.07	31.93	114.00	0	0
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Channel 4

2467.980	3.89	29.39	34.90	82.81	81.20	32.80	114.00	0	0
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Peak Detector (Vertical)

Channel 1

2413.890	3.84	29.26	34.90	90.66	88.86	25.14	114.00	0	0
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Channel 2

2431.950	3.86	29.31	34.90	88.98	87.24	26.76	114.00	0	0
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Channel 4

2467.980	3.89	29.39	34.90	91.16	89.55	24.45	114.00	0	0
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Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss
4. The average measurement was not performed when the peak measured data under the limit of average detection.



Harmonic Radiated Emission Data

Date of Test	:	March 26, 2001	EUT	:	Viedo Sender
Test Mode	:	Channel 1	Test Site	:	Open Site 2

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg

Peak Detector (Horizontal)

4828.040	6.27	33.50	34.77	39.39	<44.39	29.61	74.00	0	0
7241.830	8.32	36.24	34.90	39.57	<49.23	24.77	74.00	0	0
9655.900	10.18	37.43	35.10	40.78	<53.29	20.71	74.00	0	0
12069.57	11.91	39.13	34.65	39.62	<56.01	17.99	74.00	0	0

Average Detector(Horizontal)

12069.73	11.91	39.13	34.65	31.64	<48.03	5.97	54.00	0	0
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Peak Detector (Vertical)

4827.890	6.27	33.50	34.77	41.10	46.10	27.90	74.00	0	0
7241.840	8.32	36.24	34.90	38.79	<48.45	25.55	74.00	0	0
9655.820	10.18	37.43	35.10	39.30	<51.81	22.19	74.00	0	0
12069.71	11.91	39.13	34.65	39.73	<56.12	17.88	74.00	0	0

Average Detector (Vertical)

12069.74	11.91	39.13	34.65	31.55	<47.94	6.06	54.00	0	0
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Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss
4. The average measurement was not performed when the peak measured data under the limit of average detection.



Harmonic Radiated Emission Data

Date of Test	:	March 26, 2001	EUT	:	Viedo Sender
Test Mode	:	Channel 2	Test Site	:	Open Site 2

Freq.	Cable Loss	Probe Factor	PreAMP dB	Reading Level	Measurement	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg

Peak Detector (Horizontal)

4863.910	6.30	33.54	34.76	39.80	<44.89	29.11	74.00	0	0
7295.860	8.37	36.29	34.90	40.18	<49.93	24.07	74.00	0	0
9727.690	10.23	37.44	35.10	40.21	<52.78	21.22	74.00	0	0
12159.62	11.97	39.16	34.58	38.97	<55.52	18.48	74.00	0	0

Average Detector(Horizontal)

12159.62	11.97	39.16	34.58	31.34	<47.89	6.11	54.00	0	0
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Peak Detector (Vertical)

4863.670	6.30	33.54	34.76	40.40	45.49	28.51	74.00	0	0
7295.770	8.37	36.29	34.90	39.13	<48.88	25.12	74.00	0	0
9727.720	10.23	37.44	35.10	39.28	<51.85	22.15	74.00	0	0
12159.63	11.97	39.16	34.58	39.55	<56.10	17.90	74.00	0	0

Average Detector (Vertical)

12159.66	11.97	39.16	34.58	31.75	<48.30	5.70	54.00	0	0
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Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss
4. The average measurement was not performed when the peak measured data under the limit of average detection.



Harmonic Radiated Emission Data

Date of Test	:	March 26, 2001	EUT	:	Viedo Sender
Test Mode	:	Channel 4	Test Site	:	Open Site 2

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss	Factor		Level					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg

Peak Detector (Horizontal)

4935.860	6.37	33.62	34.73	38.76	<44.02	29.98	74.00	0	0
7403.810	8.46	36.41	34.90	39.11	<49.08	24.92	74.00	0	0
9871.660	10.34	37.47	35.10	40.32	<53.04	20.96	74.00	0	0
12339.53	12.10	39.24	34.43	38.59	<55.49	18.51	74.00	0	0

Average Detector(Horizontal)

12339.59	12.10	39.24	34.43	30.40	<47.30	6.70	54.00	0	0
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Peak Detector(Vertical)

4935.790	6.37	33.62	34.73	39.64	44.90	29.10	74.00	0	0
7403.740	8.46	36.41	34.90	39.05	<49.02	24.98	74.00	0	0
9871.700	10.34	37.47	35.10	39.39	<52.11	21.89	74.00	0	0
12339.59	12.10	39.24	34.43	37.90	<54.80	19.20	74.00	0	0

Average Detector (Vertical)

12339.59	12.10	39.24	34.43	30.44	<47.34	6.66	54.00	0	0
----------	-------	-------	-------	-------	--------	------	-------	---	---

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss
4. The average measurement was not performed when the peak measured data under the limit of average detection.



General Radiated Emission Data

Date of Test	:	March 26, 2001	EUT	:	Viedo Sender
Test Mode	:	Channel 1	Test Site	:	Open Site 2

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss	Factor		Level					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg

Horizontal:

55.220	1.12	5.04	26.00	37.60	17.76	22.24	40.00	0	0
67.830	1.17	6.56	26.00	35.40	17.13	22.87	40.00	0	0
96.930	1.29	10.94	26.00	32.60	18.83	24.67	43.50	0	0
128.940	1.42	11.64	26.00	30.40	17.46	26.04	43.50	0	0
481.050	2.87	14.62	26.00	31.20	22.69	23.31	46.00	0	0
*768.170	4.05	17.38	26.00	30.60	26.02	19.98	46.00	0	0

Vertical:

49.400	1.10	6.64	26.00	37.20	18.94	21.06	40.00	0	0
57.160	1.13	4.78	26.00	38.40	18.31	21.69	40.00	0	0
*71.710	1.19	7.26	26.00	36.60	19.05	20.95	40.00	0	0
115.360	1.37	11.70	26.00	30.60	17.67	25.83	43.50	0	0
268.620	2.00	12.17	26.00	30.40	18.56	27.44	46.00	0	0
673.110	3.66	15.89	26.00	30.80	24.35	21.65	46.00	0	0

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss



General Radiated Emission Data

Date of Test	:	March 26, 2001	EUT	:	Viedo Sender
Test Mode	:	Channel 2	Test Site	:	Open Site 2

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss	Factor		Level					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg

Horizontal:

54.250	1.12	5.04	26.00	36.80	16.95	23.05	40.00	0	0
67.830	1.17	6.56	26.00	35.40	17.13	22.87	40.00	0	0
96.930	1.29	10.94	26.00	31.80	18.03	25.47	43.50	0	0
119.240	1.38	11.60	26.00	31.40	18.38	25.12	43.50	0	0
247.280	1.91	11.85	26.00	30.00	17.76	28.24	46.00	0	0
*633.340	3.50	16.38	26.00	31.00	24.88	21.12	46.00	0	0

Vertical:

*49.400	1.10	6.64	26.00	38.00	19.74	20.26	40.00	0	0
67.830	1.17	6.56	26.00	34.40	16.13	23.87	40.00	0	0
100.810	1.31	11.44	26.00	30.00	16.75	26.75	43.50	0	0
115.360	1.37	11.70	26.00	30.20	17.27	26.23	43.50	0	0
131.850	1.44	11.92	26.00	30.80	18.15	25.35	43.50	0	0
259.890	1.96	12.87	26.00	29.80	18.63	27.37	46.00	0	0

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss



General Radiated Emission Data

Date of Test	:	March 26, 2001	EUT	:	Viedo Sender
Test Mode	:	Channel 4	Test Site	:	Open Site 2

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss	Factor		Level					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg

Horizontal:

50.370	1.10	6.24	26.00	33.60	14.94	25.06	40.00	0	0
*67.830	1.17	6.56	26.00	34.60	16.33	23.67	40.00	0	0
96.930	1.29	10.94	26.00	32.00	18.23	25.27	43.50	0	0
131.850	1.44	11.92	26.00	30.00	17.35	26.15	43.50	0	0
387.930	2.49	13.42	26.00	31.20	21.11	24.89	46.00	0	0
418.970	2.61	14.35	26.00	30.80	21.77	24.23	46.00	0	0

Vertical:

49.400	1.10	6.64	26.00	37.20	18.94	21.06	40.00	0	0
72.680	1.19	7.26	26.00	35.60	18.05	21.95	40.00	0	0
115.360	1.37	11.70	26.00	31.20	18.27	25.23	43.50	0	0
256.010	1.94	12.63	26.00	29.80	18.38	27.62	46.00	0	0
412.180	2.58	14.36	26.00	30.40	21.35	24.65	46.00	0	0
*859.350	4.42	17.79	26.00	30.80	27.01	18.99	46.00	0	0

Remarks:

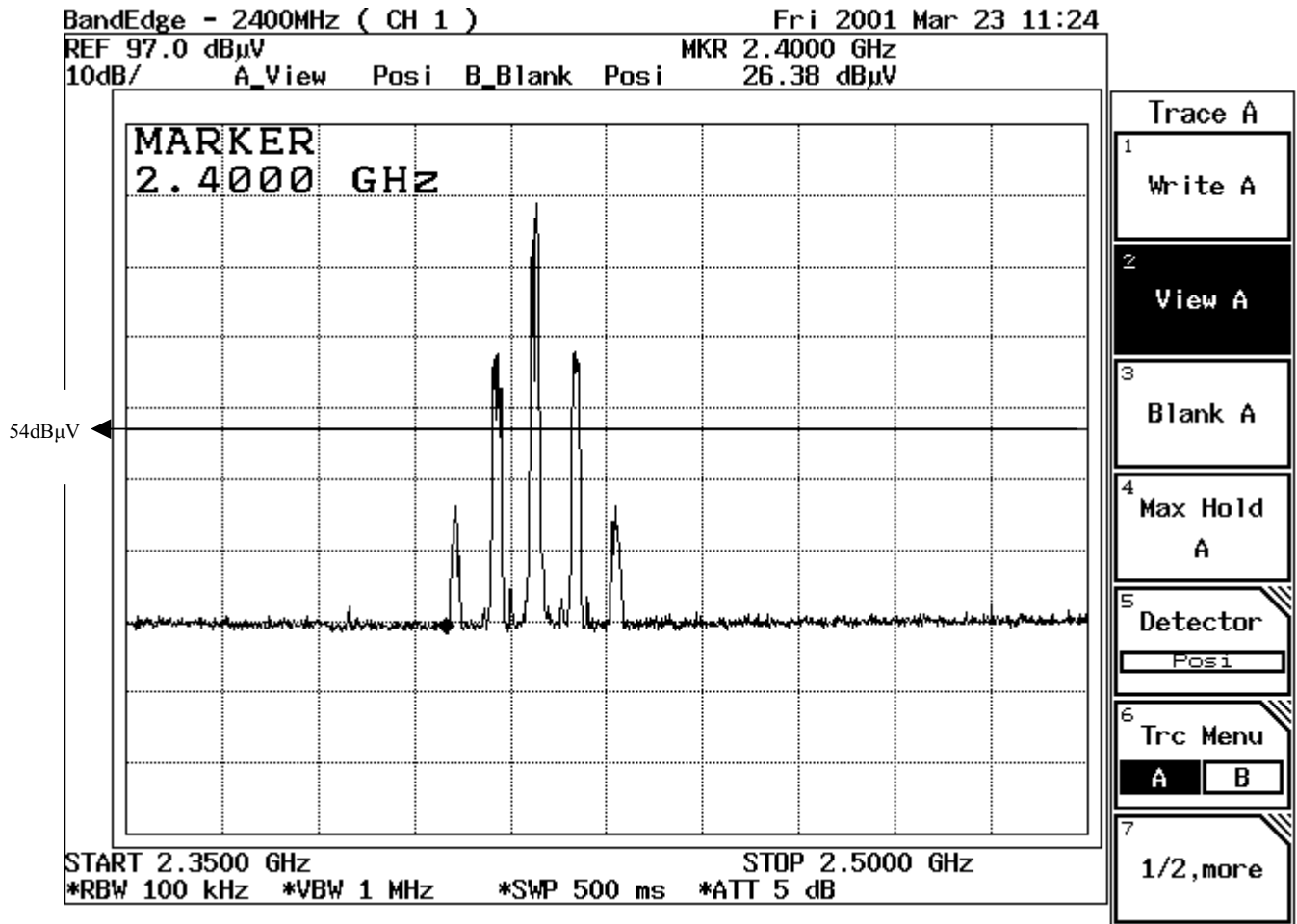
1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss



Band Edge Data

Date of Test	:	March 23, 2001	EUT	:	Viedo Sender
Test Mode	:	Channel 1	Test Site	:	Open Site 2

Figure:



Band Edge Data

Date of Test : March 23, 2001 EUT : Viedo Sender
 Test Mode : Channel 4 Test Site : Open Site 2

Figure:

