

FCC TEST REPORT

For

Lan Castle Technology Co., Ltd.

Villa Wireless color high definition video intercom system

Trade Name : An-Tone

Model No. : 90204-C

FCC ID : YOW90204

Operating

Frequency

2402-2483.5MHz

Type

of Modulation

FHSS

Antenna Gain : 2-3dBi

Applicant : Lan Castle Technology Co., Ltd.

No. 5 Xiaoyang Rd, First Industrial Park, Tanzhou Town,

Zhongshan City

Regulation: FCC Part 15.247 Subpart C

Prepared by : Shenzhen AOV Testing Technology Co., Ltd.

2-6/F, No.5, Yuantou Lane, Tanglang, Taoyuan Street,

Nanshan District, Shenzhen, Guangdong, China

Test Date : August 09-10, 2010

Date of Report: August 11, 2010



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Report No.: A001P100726010E-1

TEST REPORT DECLARATION

Applicant : Lan Castle Technology Co., Ltd. Manufacturer : Lan Castle Technology Co., Ltd.

EUT Description : Villa Wireless color high definition video intercom system

Test Procedure Used: FCC Part 15.247 Subpart C

The E. U. T. listed below has been completed RFI testing by Shenzhen AOV Testing Technology Co., Ltd. at the test site of Bontek Compliance Testing Laboratory Ltd. And the Interference emissions can pass **FCC Subpart C** limitations.

The test configurations and the facility comply with the radiated and AC line conducted test site criteria in **ANSI C63.4-2003**.

| Date of Test: | August 09-10, 2010 | |
|---------------|--------------------|--|
| Prepared by: | Berry | |
| | Project Engineer | |
| Doviewer : | toos. | |
| Reviewer : | Proiect Manager | |





1. GENERAL INFORMATION

1.1. General Information

Applicant: Lan Castle Technology Co., Ltd.

No. 5 Xiaoyang Rd, First Industrial Park, Tanzhou Town,

Zhongshan City

Manufacturer: Lan Castle Technology Co., Ltd.

No. 5 Xiaoyang Rd, First Industrial Park, Tanzhou Town,

Zhongshan City

1.2.Test Facility

Test Firm : Bontek Compliance Testing Laboratory Ltd.

Certificated by FCC, Registration No.: 338263

Address : FL.1, Building H-3, Hua Qiao Cheng East Industrial Area

Qiaocheng East Road, Nanshan, Shenzhen, P.R.China

Tel : 86-755-86337020 Fax : 86-755-86337028



1.3.Test Instrument Used

| No. | Equipment | Manufacturer | Model No. | S/N | Calibrate date | Calibrate Interval |
|-----|-------------------------------------|-----------------|--------------------------------|--------------------|----------------|-----------------------|
| 1. | EMI Test Receiver | R&S | ESPI | 100097 | 2010-2-22 | one year |
| 2. | Single Power Conductor Module | FCC | FCC-LISN-5-50 -1-01-CISPR25 | 07101 | 2010-2-22 | one year |
| 3. | EMI Test Receiver | R&S | ESCI | 100687 | 2010-2-22 | one year |
| 4. | EMI Test Receiver | R&S | FSU | BCT-019 | 2010-2-22 | one year |
| 5. | Amplifier | HP | 8447D | 1937A02492 | 2010-2-22 | one year |
| 6. | TRILOG Broadband Test-Antenna | SCHWARZBECK | VULB9163 | 9163-324 | 2010-2-22 | one year |
| 7. | Horn Antenna | SCHWARZBECK | BBHA9120A | B08000991- 0001 | 2010-2-22 | one year |
| 8. | High Field Biconical Antenna | ELECTRO-METRICS | EM-6913 | 166 | 2010-2-22 | one year |
| 9. | Log Periodic Antenna | ELECTRO-METRICS | EM-6950 | 811 | 2010-2-22 | one year |
| 10. | Remote Active Vertical Antenna | ELECTRO-METRICS | EM-6892 | 304 | 2010-2-22 | one year |
| 11. | Teo Line Single Phase Module | SCHWARZBECK | NSLK8128 | D-69250 | 2010-2-22 | one year |
| 12. | Positioning Controller | C&C | CC-C-1F | MF7802113 | 2010-2-22 | one year |
| 13. | Triple-Loop Antenna | EVERFINE | LLA-2 | 607004 | 2010-2-22 | one year |
| 14. | 10dB attenuator | SCHWARZBECK | MTAIMP-136 | R65.90.0001 #06 | 2010-2-22 | one year |



2. AC POWER LINE CONDUCTED EMISSIONS

MEASUREMENT

2.1.Rules Part No.

15.207

2.2.Limits

For a Low-power Radio-frequency device which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed below limits table.

| Frequency | Limits (dBμV) | |
|--------------|------------------|---------------|
| MHz | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

2.3.Test Procedure

The EUT is put on the table that is 0.8m high above the ground and at least away from other Metallic surface 0.4m. The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohms coupling impedance for the testing equipment; and the peripheral equipment powers form other L.I.S.N. Please refer to the block diagram of the test setup and photographs. Both sides of AC line (Line & Neutral) are checked for maximum conducted interference. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables must be changed according to FCC part 15 B.

2.4.Test Result

PASS

Detailed information, Please refer to the following page.



Tx mode

Line:

| Frequency (MHz) | AV Read Level (dBuV) | AV Limit (dBuV) | AV Margin (dBuV) |
|--------------------|-------------------------|--------------------|---------------------|
| 0.1860 | 43.20 | 54 | 10.80 |
| 5.7570 | 37.50 | 50 | 12.50 |
| 13.4500 | 32.60 | 50 | 17.40 |

| Frequency (MHz) | QP Read Level (dBuV) | QP Limit (dBuV) | QP Margin (dBuV) |
|--------------------|----------------------|--------------------|---------------------|
| 0.1815 | 60.50 | 64 | 3.50 |
| 0.1860 | 59.70 | 64 | 4.30 |
| 13.5000 | 44.80 | 60 | 15.20 |

Neutral:

| Frequency (MHz) | AV Read Level (dBuV) | AV Limit (dBuV) | AV Margin (dBuV) |
|--------------------|----------------------|--------------------|---------------------|
| 0.1950 | 43.40 | 54 | 10.60 |
| 5.8425 | 37.30 | 50 | 12.70 |
| 13.4800 | 33.40 | 50 | 16.60 |

| Frequency (MHz) | QP Read Level (dBuV) | QP Limit (dBuV) | QP Margin (dBuV) |
|--------------------|----------------------|--------------------|---------------------|
| 0.1860 | 60.30 | 64 | 3.70 |
| 0.2625 | 53.30 | 61 | 7.70 |
| 13.4500 | 45.00 | 60 | 15.00 |

Rx mode

Line:

| Frequency (MHz) | AV Read Level (dBuV) | AV Limit (dBuV) | AV Margin (dBuV) |
|--------------------|----------------------|--------------------|---------------------|
| 0.1869 | 40.20 | 54 | 13.80 |
| 5.8570 | 39.10 | 50 | 10.90 |
| 12.7300 | 34.80 | 50 | 15.20 |

| Frequency (MHz) | QP Read Level (dBuV) | QP Limit (dBuV) | QP Margin (dBuV) |
|--------------------|----------------------|--------------------|---------------------|
| 0.2015 | 58.60 | 64 | 5.40 |
| 0.1960 | 60.70 | 64 | 3.30 |
| 11.4000 | 48.20 | 60 | 11.80 |



Neutral:

| Frequency (MHz) | AV Read Level (dBuV) | AV Limit (dBuV) | AV Margin (dBuV) |
|--------------------|-------------------------|--------------------|---------------------|
| 0.2250 | 46.20 | 54 | 7.80 |
| 6.5425 | 40.30 | 50 | 9.70 |
| 15.6000 | 35.20 | 50 | 14.80 |

| Freque (MHz | • | ad Level QP L BuV) (dBu | | |
|----------------|-------|----------------------------|-------|--|
| 0.176 | 61 | .10 64 | 2.90 | |
| 0.282 | 26 54 | .60 61 | 6.40 | |
| 14.87 | 00 46 | .00 60 | 14.00 | |



3. MAXIMUM PEAK CONDUCTED RF OUTPUT POWER

3.1.Rules Part No.

15.247(b)

3.2.Limits

The maximum peak conducted RF output power measurement is 1W(30.0dBm).

3.3.Test Procedure

The antenna of the EUT was connected to the RF input cord of power meter with a coaxial cable, power was read directly from the meter and cable loss was added to the reading to obtain power at the EUT antenna terminal. The EUT output power was set to maximum to produce the worse case test result.

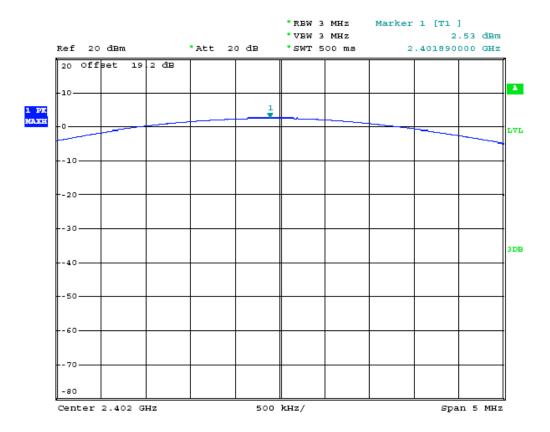
3.4.Test Result

PASS

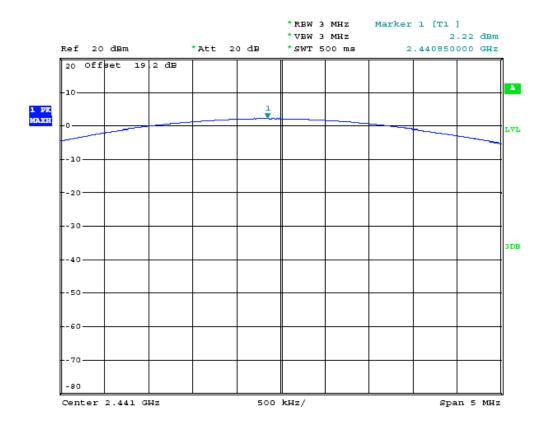
| Channel | Frequency (MHz) | Peak output power (dBm) | Limit (dBm) |
|---------|--------------------|-------------------------|----------------|
| Low | 2402 | 2.53 | 30.0 |
| Middle | 2441 | 2.22 | 30.0 |
| High | 2483 | 1.50 | 30.0 |



Low Channel: 2402MHz

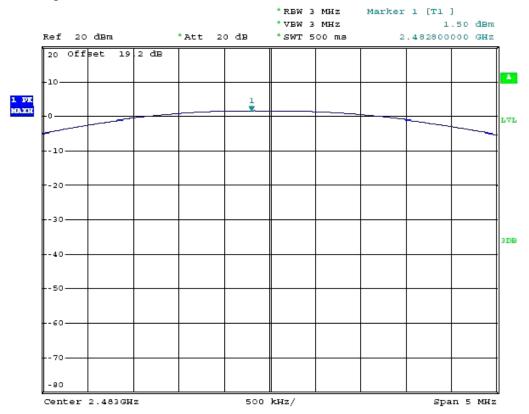


Middle Channel: 2441MHz





High Channel: 2483MHz





4. HOPPING CHANNEL SEPARATION

4.1.Test Standard

15.247(a)

4.2.Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

4.3.Test Procedure

Record the respond of frequency waveform when the EUT was working by a spectrum analyzer or EMI Receiver.

4.4.Test Result

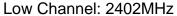
PASS

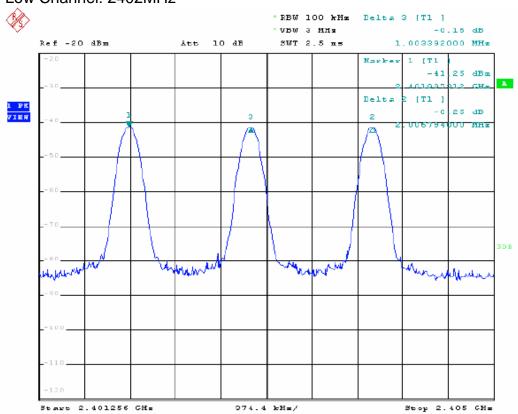
| Channel | Frequency (MHz) | Channel Separation (MHz) |
|---------|--------------------|-----------------------------|
| Low | 2402 | 1.00 |
| Middle | 2441 | 1.00 |
| High | 2483 | 1.00 |

Channel Separation > 2/3 of 20dB Bandwidth

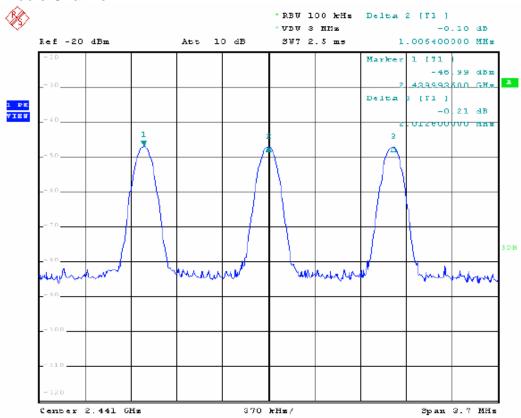
Detailed information, Please refer to the following page.





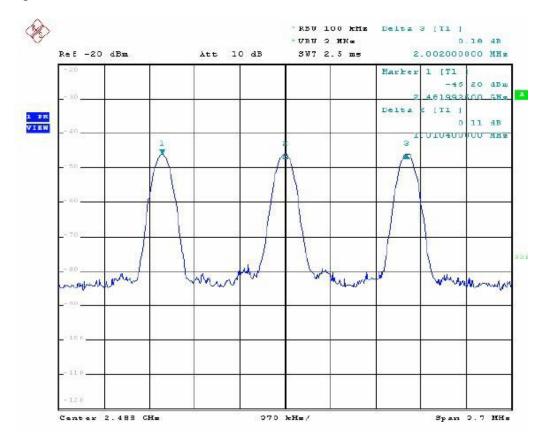


Middle Channel: 2441MHz





High Channel: 2483MHz





5. NUMBER OF HOPPING FREQUENCY

5.1.Test Standard 15.247(b)

5.2.Limits

For frequency hopping systems operating in the 2402-2483.5 MHz band employing at least 75 non-overlapping hopping channels.

5.3.Test Procedure

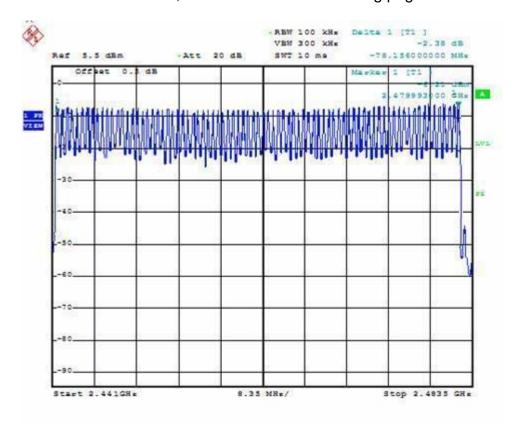
Record the respond of frequency waveform when the EUT was working by a spectrum analyzer or EMI Receiver.

5.4.Test Result

PASS

Hopping Channel is 82.

Detailed information, Please refer to the following page.





6. BAND EDGE

6.1.Rules Part No.

15.247(c)

6.2.Limits

In any 100kHz 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 20dB below that in the 100kHz 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)).

6.3.Test Procedure

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:

- 1. The EUT was tested according to ANSI C63.4 2003.
- 2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- 3. The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- 4. The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- 5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- 6. The antenna polarization: Vertical polarization and Horizontal polarization.

6.4.Test Result

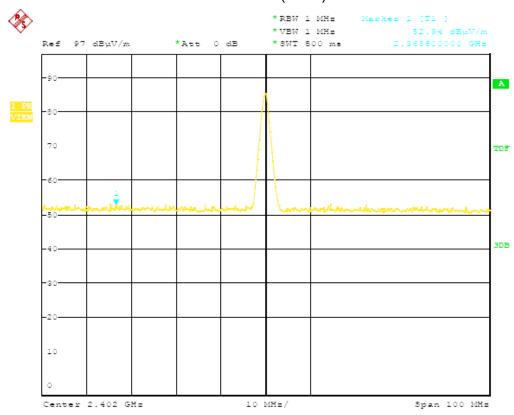
PASS

Detailed information, Please refer to the following page.

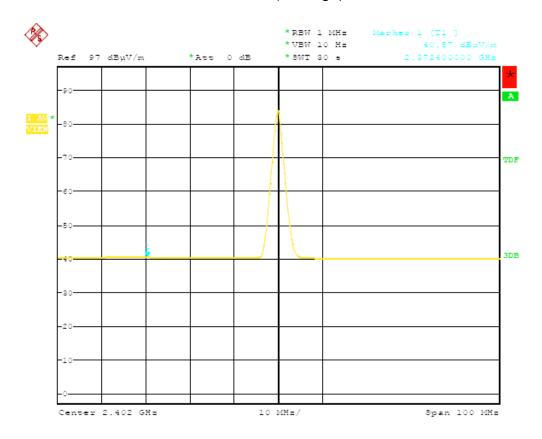


Low channel: 2402MHz

Horizontal (Peak)

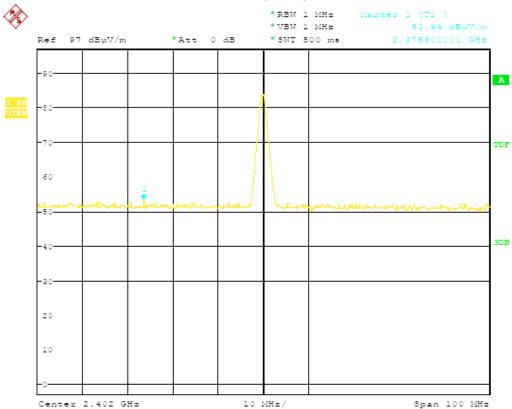


Horizontal (Average)

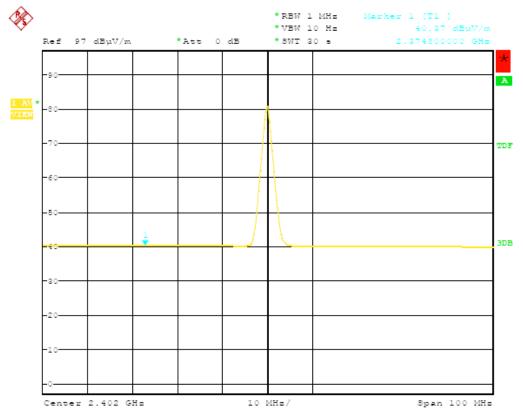








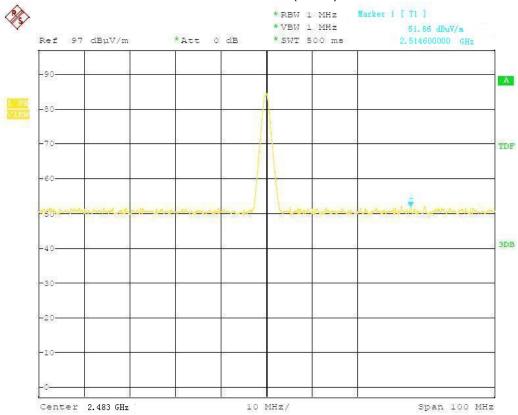
Vertical (Average)



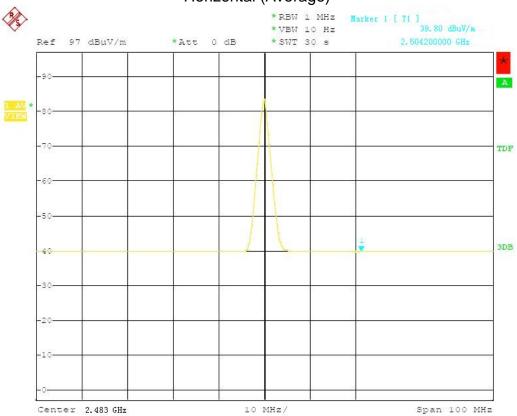




Horizontal (Peak)

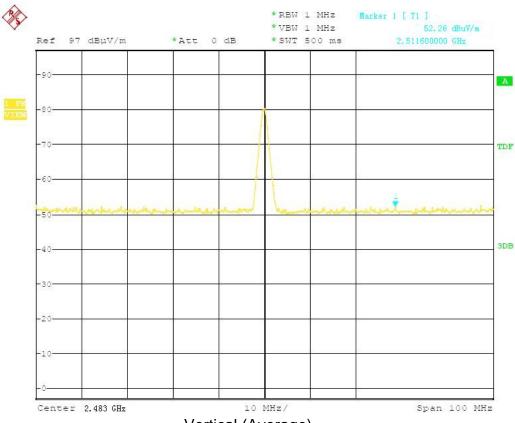


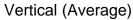
Horizontal (Average)

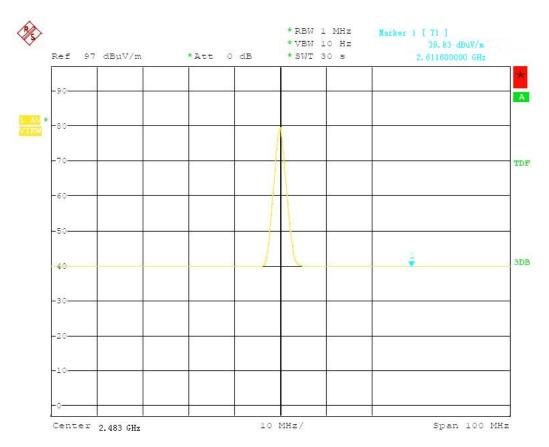




Vertical (Peak)









7. 20DB BANDWIDTH

7.1.Rules Part No. 15.247(b)

7.2.Limits

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

7.3.Test Procedure

The transmitter output is connected to the spectrum analyzer, The spectrum analyzer Center frequency is set to the transmitter frequency, The RBW is set to 10K Hz and VBW is set 30 KHz

7.4.Test Result

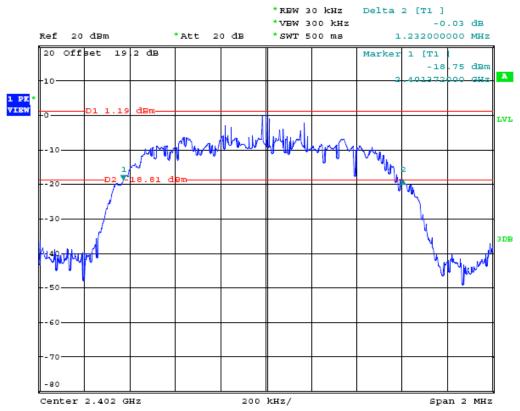
PASS

| Channel | 20dB (kHz) | Hopping Channel Bandwidth (kHz) |
|---------|---------------|------------------------------------|
| Low | 2402 | 1232.00 |
| Middle | 2441 | 1228.00 |
| High | 2483 | 1224.00 |

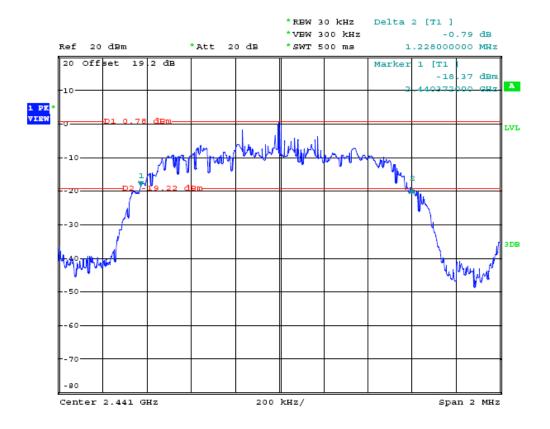
Detailed information, Please refer to the following page.





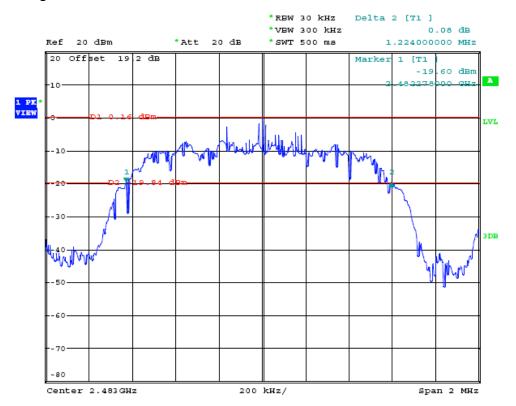


Middle Channel: 2441MHz





High Channel: 2483MHz





8. DWELL TIME

8.1. Rules Part No.

15.247(a)

8.2.Limits

Per 15.247(a) (1)(iii) At least 15 hopping Frequencies. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

8.3.Test Procedure

The transmitter output was connected to EMI receiver with a low lose cable, the band edge was measured and recorded.

8.4.Test Result

PASS

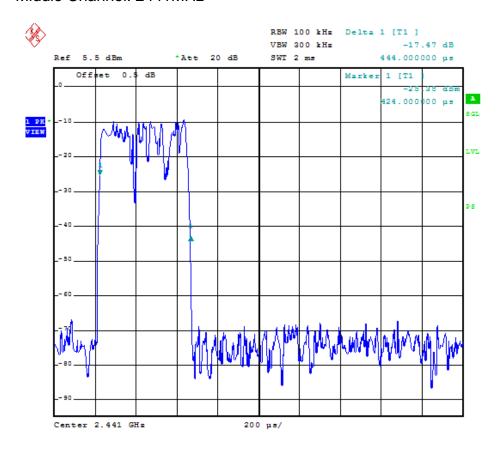
| Channel | Frequency (MHz) | | Occupied Time (0.4 sec X 79) | Dwell Time (ms) | Limit (sec) |
|---------|--------------------|-------|------------------------------|-----------------|-------------|
| Low | 2402 | 0.440 | 31.6 | 139.040 | 0.4 |
| Middle | 2441 | 0.444 | 31.6 | 140.304 | 0.4 |
| High | 2483 | 0.448 | 31.6 | 141.568 | 0.4 |

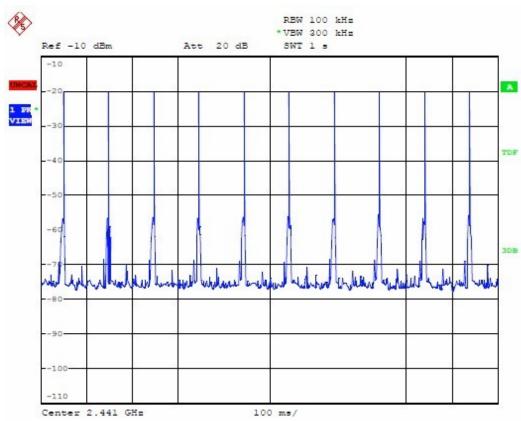
Detailed information, Please refer to the following page.

A period transmit time=79*0.4=31.6s Dwell time=Pulse time*burst (in 1sec) *31.6 Burst in 1 sec.=10(Bust is 10 times be measured)



Middle Channel: 2441MHz







9. RADIATED EMISSION

9.1.Rules Part No.

15.209

9.2.Limits

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency of (MHz) | Emission Field Strength (microvolts/meter) |
|--------------------|--|
| 30 - 88 | 100 (40) |
| 88 - 216 | 150 (43.5) |
| 216 - 960 | 200 (46.0) |
| Above 960 | 500 (54.0) |
| | · |

9.3.Test Procedure

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:

The EUT is placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (log periodical antenna and horn antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz

The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

9.4.Test Result

PASS

The frequency range from 30MHz to 25GHz is investigated.

Detailed information, Please refer to the following page.



A. Harmonics Radiated Emission Data

Low Channel: 2402MHz

| | LOW CHAINICI. L-TOLINIL | | | | |
|--------------------|-------------------------|---------------------------|----------------------------|---------------------|--|
| Frequency (MHz) | Peak (dBuV/m) | Limit (dBuV/m) Peak | Margin (dBuV/m) Peak | Horizontal/Vertical | |
| 4804 | 50.80 | 74.00 | -23.20 | Horizontal | |
| 4804 | 51.16 | 74.00 | -22.84 | Vertical | |
| 7206 | 48.26 | 74.00 | -25.74 | Horizontal | |
| 7206 | 47.63 | 74.00 | -26.37 | Vertical | |
| 9608 | 46.35 | 74.00 | -27.65 | Horizontal | |
| 9608 | 45.39 | 74.00 | -28.61 | Vertical | |
| 24020 | 45.60 | 74.00 | -28.40 | Horizontal | |
| 24020 | 45.80 | 74.00 | -28.20 | Vertical | |

Middle Channel: 2441MHz

| Frequency (MHz) | Peak (dBuV/m) | Limit (dBuV/m) Peak | Margin (dBuV/m) Peak | Horizontal/Vertical | |
|--------------------|------------------|---------------------------|----------------------------|---------------------|--|
| 4882 | 51.80 | 74.00 | -22.20 | Horizontal | |
| 4882 | 51.50 | 74.00 | -22.50 | Vertical | |
| 7323 | 49.26 | 74.00 | -24.74 | Horizontal | |
| 7323 | 48.53 | 74.00 | -25.47 | Vertical | |
| 9764 | 46.37 | 74.00 | -27.63 | Horizontal | |
| 9764 | 45.89 | 74.00 | -28.11 | Vertical | |
| 24410 | 45.90 | 74.00 | -28.10 | Horizontal | |
| 24410 | 45.50 | 74.00 | -28.50 | Vertical | |

High Channel:2483MHz

| Frequency (MHz) | Peak (dBuV/m) | Limit (dBuV/m) Peak | Margin (dBuV/m) Peak | Horizontal/Vertical |
|--------------------|------------------|---------------------------|----------------------------|---------------------|
| 4960 | 52.00 | 74.00 | -22.00 | Horizontal |
| 4960 | 51.16 | 74.00 | -22.84 | Vertical |
| 7440 | 48.56 | 74.00 | -25.44 | Horizontal |
| 7440 | 48.65 | 74.00 | -25.35 | Vertical |
| 9920 | 47.38 | 74.00 | -26.62 | Horizontal |
| 9920 | 46.95 | 74.00 | -27.05 | Vertical |
| 24800 | 46.60 | 74.00 | -27.40 | Horizontal |
| 24800 | 45.90 | 74.00 | -28.10 | Vertical |



B. General Radiated Emission Data

| Frequency (MHz) | Peak (dBuV/m) | Limit (dBuV/m) Peak | Margin (dBuV/m) Peak | Horizontal/Vertical |
|--------------------|------------------|---------------------------|----------------------------|---------------------|
| 47.46 | 23.20 | 40.00 | -16.80 | Horizontal |
| 55.22 | 22.60 | 40.00 | -17.40 | Horizontal |
| 97.90 | 25.10 | 43.50 | -18.40 | Horizontal |
| 291.90 | 26.80 | 46.00 | -19.20 | Horizontal |
| 551.86 | 31.00 | 46.00 | -15.00 | Horizontal |
| 891.36 | 37.60 | 46.00 | -8.40 | Horizontal |
| 47.46 | 27.20 | 40.00 | -12.80 | Vertical |
| 55.22 | 22.50 | 40.00 | -17.50 | Vertical |
| 107.60 | 24.60 | 43.50 | -18.90 | Vertical |
| 307.42 | 26.70 | 46.00 | -19.30 | Vertical |
| 555.74 | 30.70 | 46.00 | -15.30 | Vertical |
| 850.62 | 36.50 | 46.00 | -9.50 | Vertical |



10.RESTRICTED BANDS OF OPERATION

Section 15.205:

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 2. 17725 – 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 2. 20725 - 4.20775 | 73 – 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 – 13.41 | 322 – 335.4 | | |

 $^{^{\}rm 1}$ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. $^{\rm 2}$ Above 38.6



11.ANTENNA REQUIREMENT

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna is fixed by PCB, can not be changed except take apart the product. Therefore the EUT complies with Section 15.203 of the FCC rules.



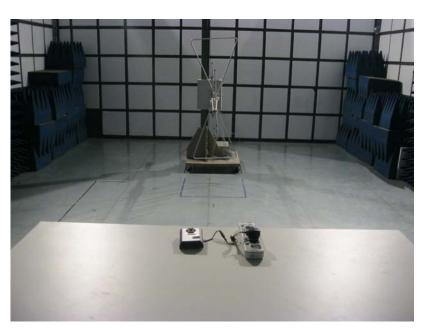
12.PHOTOGRAPH OF TEST

12.1.Conducted Emission



12.2.Radiated Emission







Above 1GHz

