



EMC

TEST REPORT

Report No. : EME-010791
Model No. : VC-T2G4
Issued Date : September 27, 2001

Applicant : ELANSat Technologies Inc.
No. 11, Lane 19, Pateh Road, Hsinchu, Taiwan, R.O.C.

Test By : Intertek Testing Services Taiwan Ltd.
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Test Engineer

Kaysi Chen.

Kaysi Chen

Approved By

J. T. Chen
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1. Summary of tests

2.4GHz Wireless CMOS Camera -Model: VC-T2G4
FCC ID: PNK2G4-CM

| Test | Reference | Results |
|--------------------|-----------|----------|
| Conducted Emission | 15.207 | Complies |
| Radiated Emission | 15.249 | Complies |
| Spurious Emission | 15.209 | Complies |
| Band-edge test | 15.249(c) | Complies |



1.1 General information

1.2 Identification of the EUT

| | |
|---------------------------|--|
| Manufacturer | : ELANsat Technologies Inc. |
| Product | : 2.4GHz Wireless CMOS Camera |
| Model No. | : VC-T2G4 |
| FCC ID. | : PNK2G4-CM |
| Frequency Range | : 2400MHz to 2483.5MHz |
| Channel Number | : 4 channels |
| Frequency of Each Channel | : 2414MHz, 2432MHz, 2450MHz, 2468MHz |
| Type of Modulation | : FM |
| Power Supply | : 120Vac, 60Hz with adapter (DV-9300S) |
| Power Cord | : N/A |
| Sample Received | : September 24, 2001 |
| Test Date(s) | : September 20, 2001 to September 24, 2001 |

The fixed antenna on Print Circuit Board is an internal antenna, no consideration of replacement. (Please refer to the photo attached as an appendix.)

1.3 Additional information about the EUT

The main function of VC-T2G4 Wireless Surveillance is to send the video and audio signals to receiver unit by 2.4GHz RF signal and do the FM demodulation, then put the video and audio signals to TV, or other AV device.

For more detail features, please refer to user's Manual.



2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Section 15.249.

2.2 Operation mode

The EUT was supplied with 120Vac to 9Vdc adapter, and the EUT will be in the transmitter mode after push the power button.

All the tests were performed according to the procedure above.

2.3 Modifications required for compliance

No modification were installed during test performance to bring the product into compliance (Please note that this list does not include changes made specifically by ELANSat Technologies Inc. Prior to compliance testing.)



2.4 Test equipment

Conducted emission

| Equipment | Brand | Model No. | Series No. |
|---------------|-----------------|-----------|-------------|
| EMI Receiver | Rohde & Schwarz | ESCS 30 | 825788/014 |
| EMI Receiver | Rohde & Schwarz | ESMI | 825428/005 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 848.766/052 |

Note:

1. The calibration interval of the above instruments is 12 months.

Radiated emission

| Equipment | Brand | Model No. | Series No. |
|---------------|-----------------|-----------|------------|
| EMI Receiver | Rohde & Schwarz | ESCS 30 | 825788/014 |
| EMI Spectrum | Rohde & Schwarz | ESMI | 825428/005 |
| Pre-Amplifier | Advantest | BB525C | 83120047 |
| Horn Antenna | EMCO | 3115 | 9906-5822 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | 159 |
| Bilog Antenna | Electro-Metrics | EM-6917-1 | 350101 |
| Turn Table | Electro-Metrics | EM4710 | N/A |
| Antenna Tower | Electro-Metrics | EM-4720 | 410109 |

Note:

1. The calibration interval of the above instruments is 12 months.



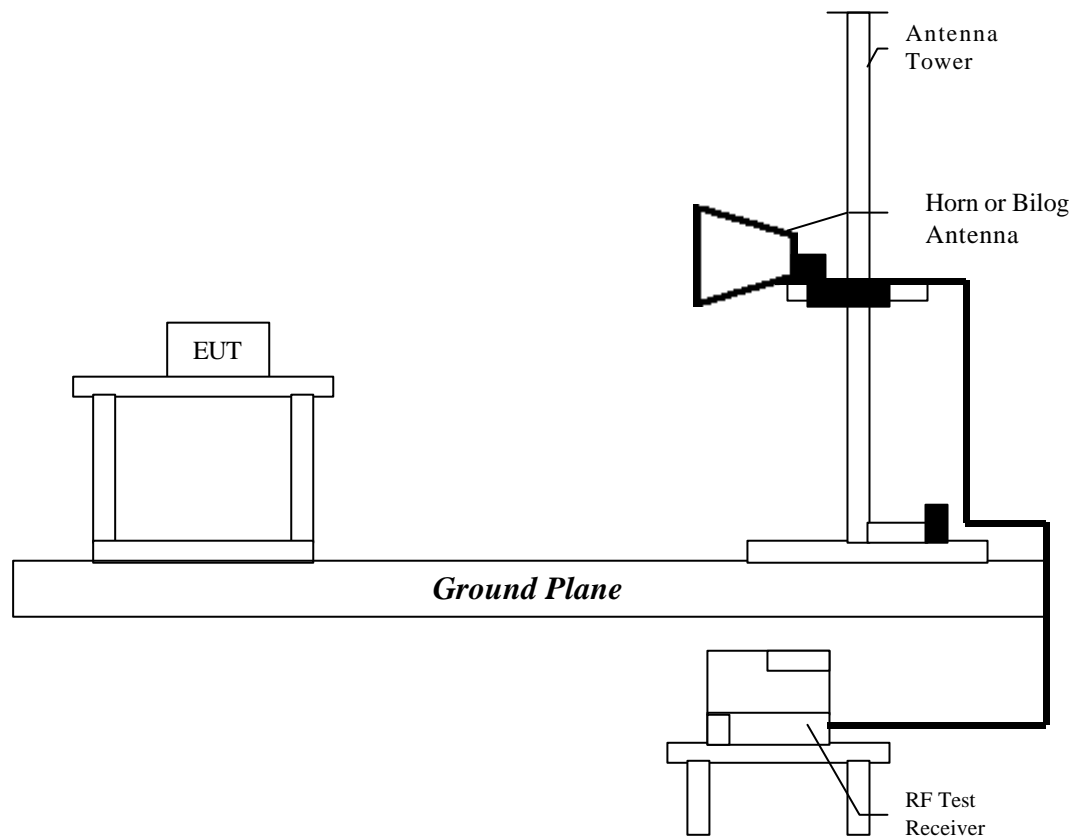
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

Temperature: 23
Relative Humidity: 63 %

3.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



The signal is maximized through rotation and placement in the three orthogonal axes. The EUT and its peripherals 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 polarizations 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. Radiated emission measurement were performed from 30MHz to 25GHz.

The bandwidth below 1GHz setting on the field strength meter (ESMI) is 120kHz and above 1GHz is 1MHz.



3.3 Emission limit

3.3.1 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) |
| 2400-2483.5 | | 114 (Peak) | | 74(Peak) |

3.3.2 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 (dB μ V/m @3m) | 15.209 Limits (dB μ V/m@3m) | General Radiated Limits (dB μ V/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 |

Remark:

1. In the above table, the tighter limit applies at the band edges.
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

Uncertainty was calculated in accordance with NAMAS NIS 81. In the General Radiated Emission Test, the uncertainty is within ± 2.5 dB



3.4 Radiated emission test data FCC 15.249

**Worst case radiated emission
at Channel 1, 2414 MHz, margin: -0.33 dB**

3.5.1 Fundamental & harmonics radiated emission data

EUT : VC-T2G4
Test Mode : Channel 1
Worst Case Condition : Transmitter Mode

| Freq. (MHz) | Spec. Analyz Detector | Antenna Polariz. (H/V) | Reading (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Corrected Reading (dBuV/m) | Limit At 3m (dBuV/m) | Margin (dB) |
|----------------|-----------------------------|------------------------------|-------------------|-----------------------------|-----------------------|----------------------------------|----------------------------|----------------|
| 2414 | AV | V | 60.19 | 29.4 | 3.9 | 93.49 | 94 | -0.51 |
| 2414 | PK | V | 68.24 | 29.4 | 3.9 | 101.54 | 114 | -12.46 |
| 2414 | AV | H | 60.37 | 29.4 | 3.9 | 93.67 | 94 | -0.33 |
| 2414 | PK | H | 67.94 | 29.4 | 3.9 | 101.24 | 114 | -12.76 |
| *4828 | AV | V | -0.45 | 34.7 | 5.7 | 39.95 | 54 | -14.05 |
| *4828 | PK | V | 7.05 | 34.7 | 5.7 | 47.45 | 74 | -26.55 |
| *4828 | AV | H | -0.13 | 34.7 | 5.7 | 40.27 | 54 | -13.73 |
| *4828 | PK | H | 7.98 | 34.7 | 5.7 | 48.38 | 74 | -25.62 |
| 7242 | AV | V | -0.55 | 36.5 | 7.36 | 43.31 | 54 | -10.69 |
| 7242 | PK | V | 7.03 | 36.5 | 7.36 | 50.89 | 74 | -23.11 |
| 7242 | AV | H | -0.43 | 36.5 | 7.36 | 43.43 | 54 | -10.57 |
| 7242 | PK | H | 8.22 | 36.5 | 7.36 | 52.08 | 74 | -21.92 |
| 9656 | AV | V | -1.35 | 38.4 | 8.5 | 45.55 | 54 | -8.45 |
| 9656 | PK | V | 6.87 | 38.4 | 8.5 | 53.77 | 74 | -20.23 |
| 9656 | AV | H | -1.75 | 38.4 | 8.5 | 45.15 | 54 | -8.85 |
| 9656 | PK | H | 6.23 | 38.4 | 8.5 | 53.13 | 74 | -20.87 |

Remark:

1. Corrected Level = Reading Level + Antenna Factor + Cable Loss
2. All Readings below 1GHz are Quasi-Peak, above are average value
3. All the Harmonics don't show on the above table were undetectable.
4. “-“ means the value was undetectable.
5. “*” means the emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000MHz.



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EUT : VC-T2G4
Test Mode : Channel 3
Worst Case Condition : Transmitter Mode

| Freq. (MHz) | Spec. Analyz Detector | Antenna Polariz. (H/V) | Reading (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Corrected Reading (dBuV/m) | Limit At 3m (dBuV/m) | Margin (dB) |
|-------------|-----------------------|------------------------|----------------|-----------------------|-----------------|----------------------------|----------------------|-------------|
| 2450 | AV | V | 58.51 | 29.4 | 3.9 | 91.81 | 94 | -2.19 |
| 2450 | PK | V | 64.82 | 29.4 | 3.9 | 98.12 | 114 | -15.88 |
| 2450 | AV | H | 59.27 | 29.4 | 3.9 | 92.57 | 94 | -1.43 |
| 2450 | PK | H | 66.1 | 29.4 | 3.9 | 99.4 | 114 | -14.6 |
| *4900 | AV | V | -0.21 | 34.7 | 5.7 | 40.19 | 54 | -13.81 |
| *4900 | PK | V | 7.43 | 34.7 | 5.7 | 47.83 | 74 | -26.17 |
| *4900 | AV | H | -0.13 | 34.7 | 5.7 | 40.27 | 54 | -13.73 |
| *4900 | PK | H | 7.11 | 34.7 | 5.7 | 47.51 | 74 | -26.49 |
| *7350 | AV | V | -0.55 | 37.8 | 7.39 | 44.64 | 54 | -9.36 |
| *7350 | PK | V | 7.67 | 37.8 | 7.39 | 52.86 | 74 | -21.14 |
| *7350 | AV | H | -0.43 | 37.8 | 7.39 | 44.76 | 54 | -9.24 |
| *7350 | PK | H | 7.81 | 37.8 | 7.39 | 53 | 74 | -21 |
| 9800 | AV | V | -1.35 | 38.5 | 8.48 | 45.63 | 54 | -8.37 |
| 9800 | PK | V | 5.64 | 38.5 | 8.48 | 52.62 | 74 | -21.38 |
| 9800 | AV | H | -1.75 | 38.5 | 8.48 | 45.23 | 54 | -8.77 |
| 9800 | PK | H | 5.27 | 38.5 | 8.48 | 52.25 | 74 | -21.75 |

Remark:

1. Corrected Level = Reading Level + Antenna Factor + Cable Loss
2. All Readings below 1GHz are Quasi-Peak, above are average value
3. All the Harmonics don't show on the above table were undetectable.
4. "--" means the value was undetectable.
5. "*" means the emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies above 1000MHz.



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EUT : VC-T2G4
 Test Mode : Channel 4
 Worst Case Condition : Transmitter Mode

| Freq. (MHz) | Spec. Analyz Detector | Antenna Polariz. (H/V) | Reading (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Corrected Reading (dBuV/m) | Limit At 3m (dBuV/m) | Margin (dB) |
|-------------|-----------------------|------------------------|----------------|-----------------------|-----------------|----------------------------|----------------------|-------------|
| 2468 | AV | V | 58.18 | 29.4 | 3.9 | 91.48 | 94 | -2.52 |
| 2468 | PK | V | 65.2 | 29.4 | 3.9 | 98.5 | 114 | -15.5 |
| 2468 | AV | H | 57.78 | 29.4 | 3.9 | 91.08 | 94 | -2.92 |
| 2468 | PK | H | 63.84 | 29.4 | 3.9 | 97.14 | 114 | -16.86 |
| *4936 | AV | V | -0.9 | 34.7 | 5.74 | 39.54 | 54 | -14.46 |
| *4936 | PK | V | 7.15 | 34.7 | 5.74 | 47.59 | 74 | -26.41 |
| *4936 | AV | H | -0.75 | 34.7 | 5.74 | 39.69 | 54 | -14.31 |
| *4936 | PK | H | 7.09 | 34.7 | 5.74 | 47.53 | 74 | -26.47 |
| *7404 | AV | V | -2.51 | 37.8 | 7.39 | 42.68 | 54 | -11.32 |
| *7404 | PK | V | 5.31 | 37.8 | 7.39 | 50.5 | 74 | -23.5 |
| *7404 | AV | H | -2.06 | 37.8 | 7.39 | 43.13 | 54 | -10.87 |
| *7404 | PK | H | 4.82 | 37.8 | 7.39 | 50.01 | 74 | -23.99 |
| 9872 | AV | V | -2.64 | 38.5 | 8.48 | 44.34 | 54 | -9.66 |
| 9872 | PK | V | 4.42 | 38.5 | 8.48 | 51.4 | 74 | -22.6 |
| 9872 | AV | H | -2.72 | 38.5 | 8.48 | 44.26 | 54 | -9.74 |
| 9872 | PK | H | 4.11 | 38.5 | 8.48 | 51.09 | 74 | -22.91 |

Remark:

1. Corrected Level = Reading Level + Antenna Factor + Cable Loss
2. All Readings below 1GHz are Quasi-Peak, above are average value
3. All the Harmonics don't show on the above table were undetectable.
4. "-" means the value was undetectable.
5. "*" means the emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000MHz.



3.6 General radiated emission data FCC 15.209

**Worst case radiated emission
at Polarization Vertical, 47.7 MHz, margin: -15.3 dB**

3.6.1 General radiated emission data

EUT : VC-T2G4
Worst Case Condition : Transmitter Mode

| Polar (circle) | Freq. (MHz) | Antenna Factor (dB) | Cable Loss (dB) | Reading (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|----------------|-------------|---------------------|-----------------|----------------------|-------------------------------|----------------------|-------------|
| VER. | 35.7 | 12.4 | 0.3 | 9.90 | 22.60 | 40 | -17.4 |
| VER. | 42.8 | 12.7 | 0.3 | 11.40 | 24.40 | 40 | -15.6 |
| VER. | 47.7 | 12.6 | 0.4 | 11.70 | 24.70 | 40 | -15.3 |
| VER. | 57 | 12.5 | 0.5 | 7.90 | 20.90 | 40 | -19.1 |
| VER. | 157.3 | 13.9 | 1 | 7.40 | 22.30 | 43.5 | -21.2 |
| VER. | 171.6 | 13.1 | 1 | 8.10 | 22.20 | 43.5 | -21.2 |
| HOR. | 143.1 | 13.5 | 0.9 | 4.10 | 18.50 | 43.5 | -25 |
| HOR. | 157.3 | 13.9 | 1 | 4.90 | 19.80 | 43.5 | -23.7 |
| HOR. | 162.3 | 13.7 | 1 | 5.50 | 20.20 | 43.5 | -23.2 |
| HOR. | 171.6 | 13.1 | 1 | 6.80 | 20.90 | 43.5 | -22.6 |
| HOR. | 214.3 | 10.7 | 1 | 5.10 | 16.80 | 43.5 | -26.7 |
| HOR. | 229.1 | 11.2 | 1.1 | 4.70 | 17.00 | 46 | -29 |

Remark:

1. Emission Level = Reading Level + Antenna Factor + Cable Loss
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the General Radiated Emission Test, the uncertainty is within ± 4 dB
3. All Readings below 1GHz are Quasi-Peak, above are average value
4. All the Harmonics don't show on the above table were undetectable.



3.6 Radiated emission configuration photograph

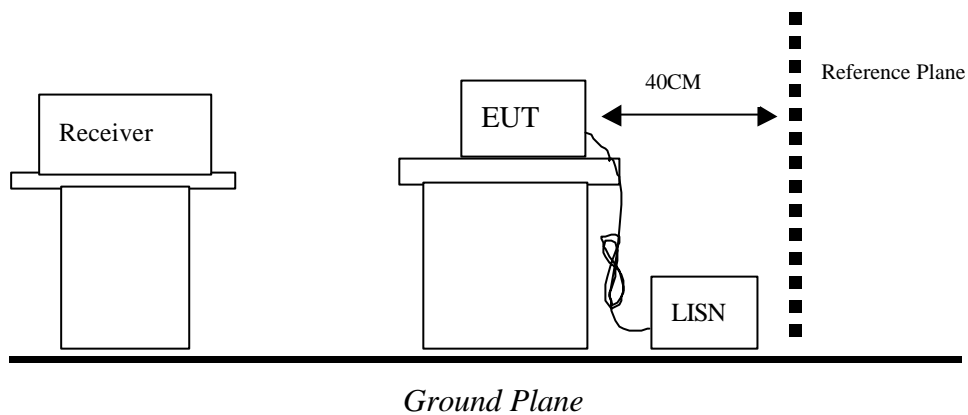
For electronic filing, the worst case radiated emission configuration photographs are saved as filename: **Re.pdf**

4. Conducted emission test FCC 15.207

4.1 Operating environment

Temperature: 27
 Relative Humidity: 59 %

4.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). 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. Both sides (Line and Neutral) of AC 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.

4.3 Emission limit

| FCC Part 15 Paragraph 15.207 | | |
|------------------------------|-------------------------|------|
| Freq. (MHz) | Maximum RF Line Voltage | |
| | uV | dBuV |
| 0.45 - 30 | 250 | 48.0 |



4.4 Conducted emission data FCC 15.207

**Worst case conducted emission
at Channel 3, Line 0.5060MHz ,margin:-14.9 dB**

EUT : VC-T2G4
Test Mode : Channel 1
Worst Case Condition : Transmitter Mode

| Power Line (circle) | Freq. (MHz) | Reading (dB μ V) QP | Limit (dB μ V) QP | Margin (dB) QP |
|------------------------|----------------|-------------------------------|-----------------------------|----------------------|
| LINE | 0.5060 | 31.70 | 48.00 | -16.30 |
| LINE | 1.2100 | 12.50 | 48.00 | -35.50 |
| LINE | 1.5460 | 8.30 | 48.00 | -39.70 |
| LINE | 3.3060 | 9.10 | 48.00 | -38.90 |
| LINE | 5.2900 | 12.40 | 48.00 | -35.60 |
| LINE | 7.8580 | 10.70 | 48.00 | -37.30 |
| NEUTRAL | 0.5060 | 26.40 | 48.00 | -21.60 |
| NEUTRAL | 0.7540 | 7.90 | 48.00 | -40.10 |
| NEUTRAL | 1.4980 | 6.40 | 48.00 | -41.60 |
| NEUTRAL | 2.7220 | 7.20 | 48.00 | -40.80 |
| NEUTRAL | 4.0740 | 9.10 | 48.00 | -38.90 |
| NEUTRAL | 5.2820 | 15.20 | 48.00 | -32.80 |

Remark:

1. The reading value including cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the Conducted Emission Test, the uncertainty is within ± 2 dB
3. The average measurement was not performed when the peak measured data under the limit of average detection.



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EUT : VC-T2G4
Test Mode : Channel 3
Worst Case Condition : Transmitter Mode

| Power Line (circle) | Freq. (MHz) | Reading (dB μ V) QP | Limit (dB μ V) QP | Margin (dB) QP |
|------------------------|----------------|-------------------------------|-----------------------------|----------------------|
| LINE | 0.5060 | 33.10 | 48.00 | -14.90 |
| LINE | 0.9620 | 12.90 | 48.00 | -35.10 |
| LINE | 1.3140 | 11.40 | 48.00 | -36.60 |
| LINE | 1.4820 | 9.40 | 48.00 | -38.60 |
| LINE | 1.6260 | 8.10 | 48.00 | -39.90 |
| LINE | 7.3460 | 11.10 | 48.00 | -36.90 |
| NEUTRAL | 0.4980 | 28.10 | 48.00 | -19.90 |
| NEUTRAL | 0.7780 | 7.80 | 48.00 | -40.20 |
| NEUTRAL | 0.9620 | 8.10 | 48.00 | -39.90 |
| NEUTRAL | 1.3140 | 11.30 | 48.00 | -36.70 |
| NEUTRAL | 5.2820 | 10.90 | 48.00 | -37.10 |
| NEUTRAL | 9.1460 | 10.40 | 48.00 | -37.60 |

Remark:

1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the Conducted Emission Test, the uncertainty is within ± 2 dB
3. The average measurement was not performed when the peak measured data under the limit of average detection.



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EUT : VC-T2G4
Test Mode : Channel 4
Worst Case Condition : Transmitter Mode

| Power Line (circle) | Freq. (MHz) | Reading (dB μ V) QP | Limit (dB μ V) QP | Margin (dB) QP |
|------------------------|----------------|-------------------------------|-----------------------------|----------------------|
| LINE | 0.4980 | 31.20 | 48.00 | -16.80 |
| LINE | 0.9940 | 13.40 | 48.00 | -34.60 |
| LINE | 1.2660 | 9.80 | 48.00 | -38.20 |
| LINE | 1.5700 | 8.20 | 48.00 | -39.80 |
| LINE | 1.9140 | 7.50 | 48.00 | -40.50 |
| LINE | 9.2260 | 9.40 | 48.00 | -38.60 |
| NEUTRAL | 0.4980 | 28.10 | 48.00 | -19.90 |
| NEUTRAL | 0.7460 | 8.50 | 48.00 | -39.50 |
| NEUTRAL | 1.2740 | 7.50 | 48.00 | -40.50 |
| NEUTRAL | 1.9780 | 7.60 | 48.00 | -40.40 |
| NEUTRAL | 3.7940 | 9.10 | 48.00 | -38.90 |
| NEUTRAL | 7.5220 | 11.70 | 48.00 | -36.30 |

Remark:

1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the Conducted Emission Test, the uncertainty is within ± 2 dB
3. The average measurement was not performed when the peak measured data under the limit of average detection.



4.4.1 Conducted emission configuration photograph

For electronic filing, the worst case conducted emission configuration photographs are saved as filename: **Ce.pdf**



5. Radiated emission on the band edge FCC 15.249(C)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (2400~2483.5MHz). Please refer to the attachment plots.

Band-edge test result please refers to filename: **band-edge-low.pdf**,
band-edge-high.pdf