



EMC

TEST REPORT

Report No. : EME-030449
Model No. : VC-T101
Issued Date : April 30, 2003

Applicant : ELANsat Technologies Inc.
5F, No. 12, Innovation Rd. 1 Science-Based Industrial Park,
Hsinchu, 300, Taiwan

Test By : Intertek Testing Services Taiwan Ltd.
No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,
Shiang-Shan District, Hsinchu City, Taiwan

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Project Engineer

Jerry Liu

Reviewed By

Elton Chen



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Summary of Tests

2.4GHz Wireless Camera Transmitter
Model: VC-T101
FCC ID: PNKVC-TA

Test	Reference	Results
Conducted Emission of AC Power	15.207	Complies
Radiated Emission test	15.249(c), 15.209	Complies



1. General information

1.1 Identification of the EUT

Applicant	: ELANSat Technologies Inc.
Product	: 2.4GHz Wireless Camera Transmitter
Model No.	: VC-T101
FCC ID.	: PNKVC-TA
Frequency Range	: 2414MHz to 2468MHz
Channel Number	: 4 channels
Frequency of Each Channel	: 2414MHz, 2432MHz, 2450MHz, 2468MHz
Type of Modulation	: FM
Rated Power	: 9V
Power Cord	: N/A
Test Voltage	: 120Vac, 60Hz with adapter (YAD-0900300C)
Sample Received	: April 9, 2003
Test Date(s)	: April 11, 2003 to April 16, 2003

A DoC report has been generated for the client.

1.2 Additional information about the EUT

The Wireless Surveillance System with CMOS/CCD Images and four channels available is just as baby sitter, home/camp guard and company monitoring.

The main function of VC-T101 Video Sender 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 monitor, or other AV device.

We verified that VC-T102 is identical to VC-T101 (EUT), the difference model number serves as marketing strategy.

For more detail features, please refer to User's manual as file name "Installation guide.pdf"



1.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Gain : 0dBi

Antenna Type : Invert-F antenna

Connector Type : N/A



2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

The EUT was tested in normal operation mode.

The EUT was transmitted continuously during the test.



2.4 Test equipment

Equipment	Brand	Frequency range	Model No.	Series No.	Last Cal. Date
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30	825788/014	May 24, 2002
EMI Test Receiver	Rohde & Schwarz	20Hz~26.5GHz	ESMI	825428/005	June 10, 2002
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	100137	July 10, 2002
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30	100186	Oct. 9, 2002
Horn Antenna	EMCO	1GHz~18GHz	3115	9906-5890	Sep. 19, 2002
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	159	June 20, 2002
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9160	3111	June 20, 2002
Turn Table	HDGmbH	N/A	DS 420S	420/669/01	N/A
Antenna Tower	HDGmbH	N/A	MA 240	240/573	N/A
Microwave Amplifier	Agilent	2GHz~26.5GHz	8348A	3111A00567	Dec. 20, 2002
RF Power Meter	Boonton	10kHz~100GHz	4231A	79401	May 22, 2002
Power Sensor	Boonton	30MHz~8GHz	51011-EMC	32482	May 25, 2002

Note:

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

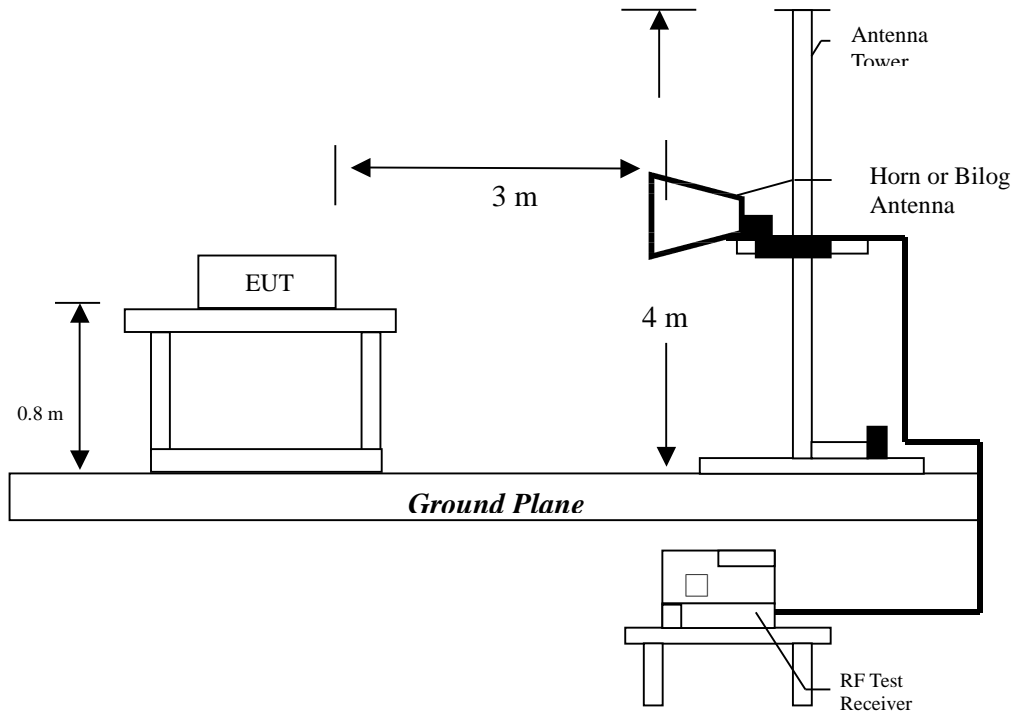
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

Temperature:	23	°C
Relative Humidity:	55	%
Atmospheric Pressure	1023	hPa

3.2 Test setup & procedure

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



Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading recorded also on the report

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.



The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

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	500	54

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	15.209 Limits (dB μ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	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.

Expanded uncertainty (k=2) of radiated emission measurement is ± 4.98 dB.

Expanded uncertainty (k=2) of conducted emission measurement is ± 2.02 dB.



3.4 Radiated emission test data FCC 15.249

3.4.1 Measurement results: frequencies equal to or less than 1 GHz

EUT : VC-T101
Test Condition : Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
152.2	PK	V	12.91344	3.4	16.3134	43.5	-27.187
243.4	PK	V	13.07256	4.2	17.2726	46.00	-28.727
530.5	PK	V	19.6484	3.6	23.2484	46.00	-22.752
716.80	PK	V	22.78	3.80	26.58	46.00	-19.42
755.60	PK	V	23.56	3.60	27.16	46.00	-18.84
811.00	PK	V	24.19	3.30	27.49	46.00	-18.51
154.20	PK	H	12.94	2.90	15.84	43.50	-27.66
286.10	PK	H	14.34	2.70	17.04	46.00	-28.96
563.50	PK	H	20.22	2.90	23.12	46.00	-22.88
763.30	PK	H	23.66	3.30	26.96	46.00	-19.04
802.10	PK	H	24.32	3.20	27.52	46.00	-18.48
891.40	PK	H	25.64	3.60	29.24	46.00	-16.76

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.



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EUT : VC-T101
 Test Condition : Tx at middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
66.9	PK	V	9.199	6.4	15.5994	40	-24.401
171.6	PK	V	12.94	4.9	17.8435	43.5	-25.656
586.8	PK	V	21.01	3.3	24.313	46	-21.687
730.30	PK	V	22.96	4.20	27.16	46.00	-18.84
798.20	PK	V	24.31	3.50	27.81	46.00	-18.19
926.30	PK	V	26.10	3.90	30.00	46.00	-16.00
43.60	PK	H	16.92	1.20	18.12	40.00	-21.88
57.20	PK	H	11.13	4.60	15.73	40.00	-24.27
74.60	PK	H	7.87	8.90	16.77	40.00	-23.23
175.50	PK	H	12.97	2.30	15.27	43.50	-28.23
712.90	PK	H	22.85	3.80	26.65	46.00	-19.35
924.30	PK	H	26.09	4.30	30.39	46.00	-15.61

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor



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EUT : VC-T101
Test Condition : Tx at high channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
66.9	PK	V	9.1994	6.4	15.5994	40	-24.401
115.4	PK	V	11.99604	3.2	15.196	43.5	-28.304
152.2	PK	V	12.91344	3.1	16.0134	43.5	-27.487
171.60	PK	V	12.94	3.80	16.74	43.50	-26.76
181.30	PK	V	12.75	3.90	16.65	43.50	-26.85
191.00	PK	V	12.17	4.10	16.27	43.50	-27.24
388.90	PK	H	17.20	3.50	20.70	46.00	-25.30
480.10	PK	H	18.72	3.00	21.72	46.00	-24.28
549.90	PK	H	19.63	3.30	22.93	46.00	-23.07
712.90	PK	H	22.85	3.20	26.05	46.00	-19.95
821.50	PK	H	24.18	4.00	28.18	46.00	-17.82
908.80	PK	H	26.04	3.40	29.44	46.00	-16.56

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor



3.4.2 Fundamental & Harmonics Radiated Emission Data

The radiated emissions at

Frequency(MHz)	Margin
2414	-2.67

are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.

EUT : VC-T101
Test Condition : Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2414	PK	V	0	29.53	67.26	96.79	114	-17.21
2414	AV	V	0	29.53	61.8	91.33	94	-2.67
4828	PK	V	32.496	35.47	-	-	74	-
4828	AV	V	32.496	35.47	-	-	54	-
7242	PK	V	34.32	38.42	52.62	56.72	74	-17.28
7242	AV	V	34.32	38.42	39.47	43.57	54	-10.43
9656	PK	V	35.808	41.35	-	-	74	-
9656	AV	V	35.808	41.35	-	-	54	-
12070	PK	V	35.4	43.38	-	-	74	-
12070	AV	V	35.4	43.38	-	-	54	-

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.



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EUT : VC-T101
Test Condition : Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2414	PK	H	0	29.53	61.21	90.74	114	-23.26
2414	AV	H	0	29.53	55.26	84.79	94	-9.21
4828	PK	H	32.496	35.47	-	-	74	-
4828	AV	H	32.496	35.47	-	-	54	-
7242	PK	H	34.32	38.42	50	54.1	74	-19.9
7242	AV	H	34.32	38.42	37.3	41.4	54	-12.6
9656	PK	H	35.808	41.35	-	-	74	-
9656	AV	H	35.808	41.35	-	-	54	-
12070	PK	H	35.4	43.38	-	-	74	-
12070	AV	H	35.4	43.38	-	-	54	-

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.



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EUT : VC-T101
Test Condition : Tx at middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2432	PK	V	0	29.53	65.45	94.98	114	-19.02
2432	AV	V	0	29.53	59.71	89.24	94	-4.76
4864	PK	V	32.496	35.47	-	-	74	-
4864	AV	V	32.496	35.47	-	-	54	-
7296	PK	V	34.32	38.42	52.6	56.7	74	-17.3
7296	AV	V	34.32	38.42	39.63	43.73	54	-10.27
9728	PK	V	35.808	41.35	-	-	74	-
9728	AV	V	35.808	41.35	-	-	54	-
12160	PK	V	35.4	43.38	-	-	74	-
12160	AV	V	35.4	43.38	-	-	54	-

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.



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EUT : VC-T101
Test Condition : Tx at middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2432	PK	H	0	29.53	60.28	89.81	114	-24.19
2432	AV	H	0	29.53	54.15	83.68	94	-10.32
4864	PK	H	32.496	35.47	-	-	74	-
4864	AV	H	32.496	35.47	-	-	54	-
7296	PK	H	34.32	38.42	50.54	54.64	74	-19.36
7296	AV	H	34.32	38.42	38.12	42.22	54	-11.78
9728	PK	H	35.808	41.35	-	-	74	-
9728	AV	H	35.808	41.35	-	-	54	-
12160	PK	H	35.4	43.38	-	-	74	-
12160	AV	H	35.4	43.38	-	-	54	-

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.



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EUT : VC-T101
Test Condition : Tx at high channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2468	PK	V	0	29.53	64.53	94.06	114	-19.94
2468	AV	V	0	29.53	59.24	88.77	94	-5.23
4936	PK	V	32.496	35.47	-	-	74	-
4936	AV	V	32.496	35.47	-	-	54	-
7404	PK	V	34.47	38.38	52.29	56.2	74	-17.8
7404	AV	V	34.47	38.38	39.5	43.41	54	-10.59
9872	PK	V	35.919	41.55	-	-	74	-
9872	AV	V	35.919	41.55	-	-	54	-
12340	PK	V	35.315	43.75	-	-	74	-
12340	AV	V	35.315	43.75	-	-	54	-

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.



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EUT : VC-T101
Test Condition : Tx at high channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2468	PK	H	0	29.53	62.33	91.86	114	-22.14
2468	AV	H	0	29.53	56.79	86.32	94	-7.68
4936	PK	H	32.496	35.47	-	-	74	-
4936	AV	H	32.496	35.47	-	-	54	-
7404	PK	H	34.47	38.38	51.65	55.56	74	-18.44
7404	AV	H	34.47	38.38	37.95	41.86	54	-12.14
9872	PK	H	35.919	41.55	-	-	74	-
9872	AV	H	35.919	41.55	-	-	54	-
12340	PK	H	35.315	43.75	-	-	74	-
12340	AV	H	35.315	43.75	-	-	54	-

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.

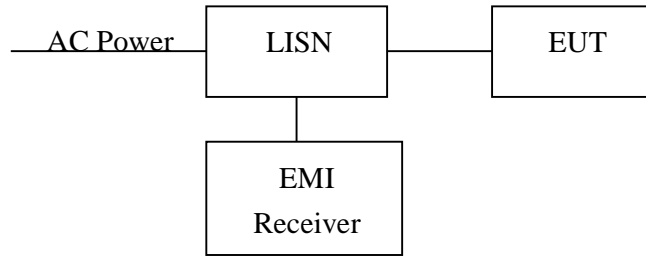


4. Conducted emission test FCC 15.207

4.1 Operating environment

Temperature: 25 °C
Relative Humidity: 60 %
Atmospheric Pressure 1023 hPa

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.

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

4.3 Emission limit

Freq. (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

*Decreases with the logarithm of the frequency.



4.4 Conducted emission data FCC 15.207

(1) Line

EUT : VC-T101
Test Condition : Tx at low channel

Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Reading (dB μ V) AV	Limit (dB μ V) AV	Margin (dB)	
					QP	AV
0.15000	36.10	66.00	10.20	56.00	-29.90	-45.80
0.23800	34.20	62.17	8.60	52.17	-27.97	-43.57
0.31000	33.40	59.97	7.50	49.97	-26.57	-42.47
0.56600	27.10	56.00	5.00	46.00	-28.90	-41.00
0.59000	27.00	56.00	5.00	46.00	-29.00	-41.00
0.63800	25.10	56.00	4.20	46.00	-30.90	-41.80

(2) Neutral

EUT : VC-T101
Test Condition : Tx at low channel

Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Reading (dB μ V) AV	Limit (dB μ V) AV	Margin (dB)	
					QP	AV
0.15000	35.80	66.00	11.80	56.00	-30.20	-44.20
0.34200	32.40	59.15	7.00	49.15	-26.75	-42.15
0.60600	27.80	56.00	5.00	46.00	-28.20	-41.00
0.66200	25.80	56.00	4.40	46.00	-30.20	-41.60
0.85400	14.90	56.00	2.80	46.00	-41.10	-43.20
0.96600	15.00	56.00	2.80	46.00	-41.00	-43.20

Remark:

1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81.
Expanded uncertainty (k=2) of conducted emission measurement is ± 2.6 dB.



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(1) Line

EUT : VC-T101
 Test Condition : Tx at middle channel

Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Reading (dB μ V) AV	Limit (dB μ V) AV	Margin (dB)	
					QP	AV
0.15000	36.10	66.00	10.20	56.00	-29.90	-45.80
0.23800	34.30	62.17	8.70	52.17	-27.87	-43.47
0.29400	33.60	60.41	7.90	50.41	-26.81	-42.51
0.32600	33.20	59.55	7.50	49.55	-26.35	-42.05
0.56600	27.10	56.00	5.10	46.00	-28.90	-40.90
0.58200	27.10	56.00	5.10	46.00	-28.90	-40.90

(2) Neutral

EUT : VC-T101
 Test Condition : Tx at middle channel

Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Reading (dB μ V) AV	Limit (dB μ V) AV	Margin (dB)	
					QP	AV
0.15000	35.90	66.00	10.30	56.00	-30.10	-45.70
0.16600	35.50	65.16	10.40	55.16	-29.66	-44.76
0.28600	33.30	60.64	7.60	50.64	-27.34	-43.04
0.34200	32.70	59.15	7.20	49.15	-26.45	-41.95
0.59000	28.20	56.00	5.10	46.00	-27.80	-40.90
0.62200	27.60	56.00	4.80	46.00	-28.40	-41.20

Remark:

1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81.
 Expanded uncertainty (k=2) of conducted emission measurement is ± 2.6 dB.



(1) Line

EUT : VC-T101
Test Condition : Tx at high channel

Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Reading (dB μ V) AV	Limit (dB μ V) AV	Margin (dB)	
					QP	AV
0.15000	36.00	66.00	10.20	56.00	-30.00	-45.80
0.23800	34.30	62.17	8.70	52.17	-27.87	-43.47
0.28600	33.70	60.64	7.90	50.64	-26.94	-42.74
0.56000	27.00	56.00	5.00	46.00	-29.00	-41.00
0.59000	26.80	56.00	5.00	46.00	-29.20	-41.00
0.61400	26.10	56.00	4.80	46.00	-29.90	-41.20

(2) Neutral

EUT : VC-T101
Test Condition : Tx at high channel

Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Reading (dB μ V) AV	Limit (dB μ V) AV	Margin (dB)	
					QP	AV
0.15000	36.00	66.00	10.30	56.00	-30.00	-45.70
0.26200	33.80	61.37	7.90	51.37	-27.57	-43.47
0.29400	33.50	60.41	7.80	50.41	-26.91	-42.61
0.31800	33.20	59.76	7.50	49.76	-26.56	-42.26
0.34200	32.90	59.15	7.20	49.15	-26.25	-41.95
0.60600	28.10	56.00	5.10	46.00	-27.90	-40.90

Remark:

1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81.
Expanded uncertainty (k=2) of conducted emission measurement is ± 2.6 dB.



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 (2414~2468MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

See band-edge plot as file name “band-edge plot.pdf”.