

# **FCC Radio TEST Report**

FCC ID: TW4AT206

This report concerns (check one): Original Grant Class I Change

Issued Date: Jul. 31, 2007 Project No.: 0707C095

Equipment: 2.4G Wireless camera

Model Name.: AT206

Applicant: SHENZHEN AEE TECHNOLOGY

CO.,LTD

Address: 1/F., Blog.B, Tsinghua Hi-Tech

Park, Northren Hi-Tech Industrial Park, Nanshan District, Shenzhen, P.R.C

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Jul. 24, 2007 ~ Jul .31, 2007

Testing Engineer

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Authorized Signatory:

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Lab Code: 200145-0







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# 1. CERTIFICATION

Equipment: 2.4G Wireless camera

Trade Name: AEE Model Name.: AT206

Applicant: SHENZHEN AEE TECHNOLOGY CO.,LTD

Date of Test: Jul. 24, 2007 ~ Jul .31, 2007 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.249) / RSS-210: 2004/ ANCI C63.4: 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-0707C095) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and CNLA according to the ISO-17025 quality assessment standard and technical standard(s).

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15, Subpart C	;	
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.249	Radiated Spurious Emission	PASS	

# NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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# 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan. Neutron's test firm number is 95335

# 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
C01 ANSI 150 KHz ~ 30MHz		1.94		

# B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Η	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Η	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

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# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4G Wireless camera			
Trade Name	AEE			
Model No.	AT206			
OEM Brand/Model No.	N/A			
Model Difference	N/A			
	The EUT is a 2.4G Wire	eless camera.		
	Product Type	Low Power Communication		
		Device		
	Operation Frequency:	2414~2468 MHz		
	Modulation Type:	GFSK		
	Number Of Channel	4 CH		
Product Description	Antenna Designation:	Dipole antenna		
	Antenna Gain(Peak)	3.0 dBi		
	Output Power:	79.07 dBuV/m (AV Max.)		
	Based on the application, features, or specification exhibited			
	in User's Manual, the EUT is considered as an			
	. •	More details of EUT technical		
	specification, please ref	er to the User's Manual.		
Channel List	Please refer to the Note 2.			
Dower Course	DC Voltage supplied from AC ADAPTER			
Power Source	BRAND:GPE / MODEL:GPE051-120050-1			
Power Rating	I/P 100~240VAC 50/60Hz 0.15A O/P 12V 500mA 6VA			
Connecting I/O Port(s)	Please refer to the User's Manual			

# Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.	Freqeuncy Band	Channel No.	Frequency
		1	2414 MHz
	2400~2483.5MHz	2	2432 MHz
	2400~2403.5WII IZ	3	2450 MHz
		4	2468 MHz

# 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	NA	ZT-906T	Dipole Antenna	R-SMA	3.0

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# 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	CH Lower - 2414MHz
Mode 2	CH Middle - 2450MHz
Mode 3	CH Highest -2468MHz

	For Conducted Test
Final Test Mode	Description
Mode 1	Normal Link

For Radiated Test		
Final Test Mode	Description	
Mode 1	CH Lower - 2414MHz	
Mode 2	CH Middle - 2450MHz	
Mode 3	CH Highest -2468MHz	

Note:

(1) The camera function is only transmitter

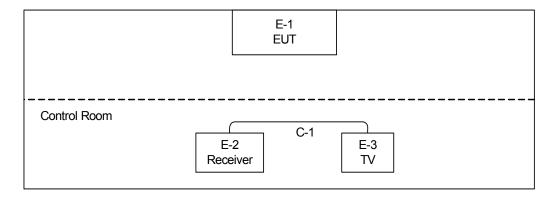
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TX Mode

E-1 EUT

Normal Link



C-1 Data Cable

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#### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	2.4G Wireless camera	AEE	AT206	TW4AT206	N/A	EUT
E-2	RECEIVER	AEE	206AC	DOC	N/A	RECEIVER
E-3	TV	HISENSE	TC1418H	N/A	XK09-201 2010	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8M	

# Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.

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# 4. EMC EMISSION TEST

# 4.1 CONDUCTED EMISSION MEASUREMENT

# 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
TREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Staridard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

# 4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00042991	Jan. 25, 2008
2	LISN	EMCO	3816/2	00042990	Jan. 25, 2008
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 28, 2007
4	50Ω Terminator	N/A	N/A	N/A	May.13, 2009
5	Test Cable	N/A	C01	N/A	Nov. 28, 2007
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 08, 2008

Remark: "N/A" denotes No Model No., Serial No. or No Calibration specified.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

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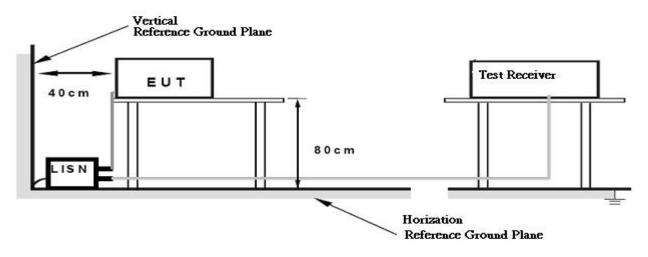
#### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



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# Neutron Engineering Inc. 4.1.6 EUT OPERATING CONDITIONS The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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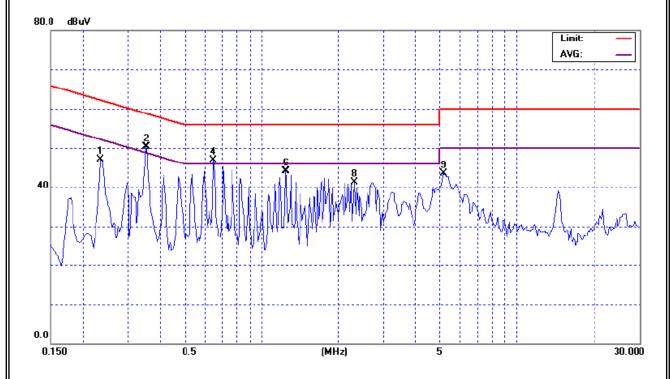
# 4.1.7 TEST RESULTS

EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	30 ℃	Relative Humidity:	60 %
Pressure :	1010hPa	Test Power :	AC 120V/60Hz
Test Mode :	Normal Link		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.24	Line	47.06	*	62.27	52.27	-15.21	(QP)
0.36	Line	50.29	*	58.84	48.84	-8.55	(QP)
0.36	Line	*	38.76	58.84	48.84	-10.08	(AV)
0.65	Line	46.90	*	56.00	46.00	-9.10	(QP)
0.65	Line	*	37.79	56.00	46.00	-8.21	(AV)
1.25	Line	44.03	*	56.00	46.00	-11.97	(QP)
1.25	Line	*	33.80	56.00	46.00	-12.20	(AV)
2.32	Line	41.32	*	56.00	46.00	-14.68	(QP)
5.16	Line	43.44	*	60.00	50.00	-16.56	(QP)

# Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note I. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode column of Interference Voltage Measured In the North AVG Mode Column of Interference Voltage Measured In the North AVG Mode Column of Interference Voltage Measured In the North AVG Mode Column of Interference Voltage Measured In the North AVG Mode Column of Interference Voltage Measured Interference Interference Interference Interference Interfere
- (2) Measuring frequency range from 150KHz to 30MHz  $\circ$



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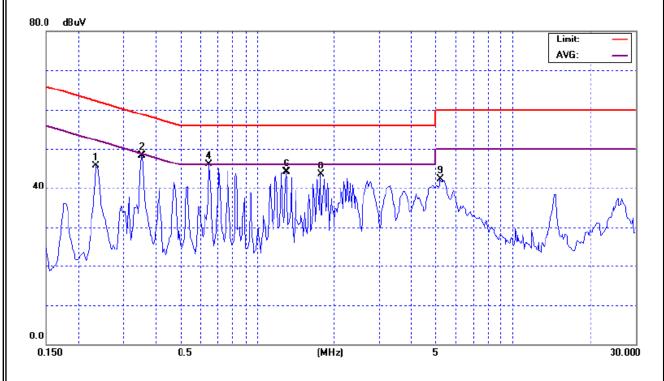


EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>30</b> ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Normal Link		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.24	Neutral	45.72	*	62.27	52.27	-16.55	(QP)
0.36	Neutral	48.34	*	58.84	48.84	-10.50	(QP)
0.36	Neutral	*	45.25	58.84	48.84	-3.59	(AV)
0.65	Neutral	46.13	*	56.00	46.00	-9.87	(QP)
0.65	Neutral	*	42.37	56.00	46.00	-3.63	(AV)
1.30	Neutral	44.14	*	56.00	46.00	-11.86	(QP)
1.30	Neutral	*	40.49	56.00	46.00	-5.51	(AV)
1.78	Neutral	43.51	*	56.00	46.00	-12.49	(QP)
5.22	Neutral	42.22	*	60.00	50.00	-17.78	(QP)

## Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note I. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured In the Note of Interference Voltage Measured Interference
- (2) Measuring frequency range from 150KHz to 30MHz  ${\scriptstyle \circ}$



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#### 4.2 RADIATED EMISSION MEASUREMENT

# 4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

requencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other 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 or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

# LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
FREQUENCT (IVITIZ)	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

# LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

FCC Part15 (15.249) , Subpart C					
Limit	Frequency Range (MHz)				
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	2400-2483.5				
Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m	Above 2483.5				

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# 4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3058	Nov. 28, 2007
2	Test Cable	N/A	10M_OS02	N/A	Nov. 28, 2007
3	Test Cable	N/A	OS02-1/-2/-3	N/A	Nov. 28, 2007
4	Pre-Amplifier	Anritsu	MH648A	M09961	Nov. 28, 2007
5	EMI Test Receiver	R&S	ESCI	100082	Jan. 31, 2008
6	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
8	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 08, 2008
9	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-325	Oct. 25, 2007
10	Horn Antenna	Schwarzbeck	BBHA9170	9170187	Oct. 25, 2007
11	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Mar. 10, 2008
12	Microflex Cable	United Microwave	57793	1m	Mar. 10, 2008
13	Microflex Cable	United Microwave	A30A30-5006	10M	Jul. 07, 2008

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100KHz / 100KHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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## 4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

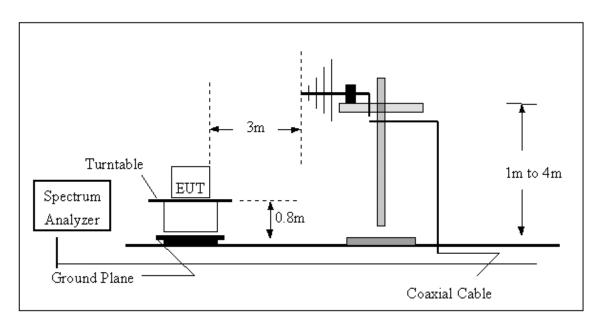
4.2.4 DEVIATION FROM TEST STANDAR	₹D
No deviation	

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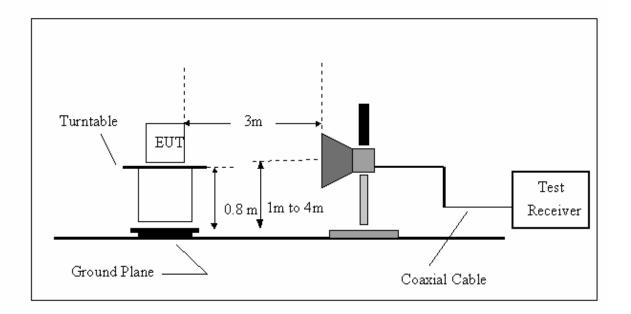


#### 4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



# (B) Radiated Emission Test Set-Up Frequency Above 1 GHz



# 4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

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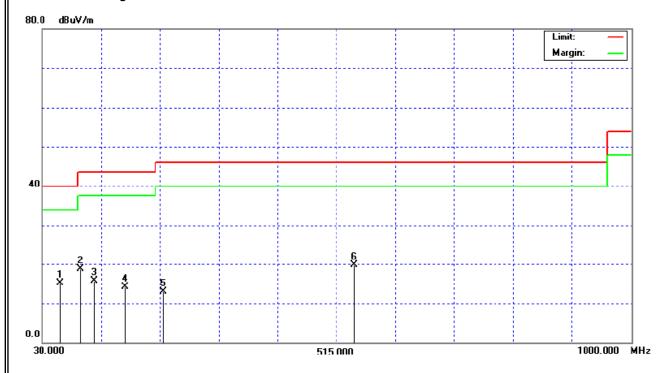
# 4.2.7 TEST RESULTS (Between 30 - 1000 MHz)

EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %
Pressure:	1010hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX CH 04 -2468MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
59.10	V	37.41	-22.34	15.07	40.00	- 24.93	
92.08	V	39.50	-20.72	18.78	43.50	- 24.72	
115.36	V	36.94	-21.18	15.76	43.50	- 27.74	
165.80	V	33.85	-19.76	14.09	43.50	- 29.41	
229.82	V	30.27	-17.46	12.81	46.00	- 33.19	
544.10	V	29.00	-9.37	19.63	46.00	- 26.37	

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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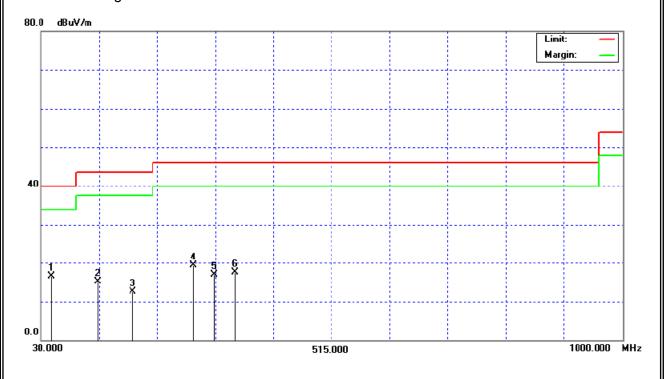


EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX CH 04 -2468MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
47.46	Н	36.27	-19.78	16.49	40.00	- 23.51	
125.06	Η	36.75	-21.60	15.15	43.50	- 28.35	
183.26	Η	31.73	-19.29	12.44	43.50	- 31.06	
284.14	Н	34.94	-15.69	19.25	46.00	- 26.75	
319.06	Η	31.14	-14.19	16.95	46.00	- 29.05	
353.98	Н	30.76	-13.29	17.47	46.00	- 28.53	

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $^{\mathbb{F}}$ Note  $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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# 4.2.8 TEST RESULTS (Above 1000 MHz)

EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2414MHz		

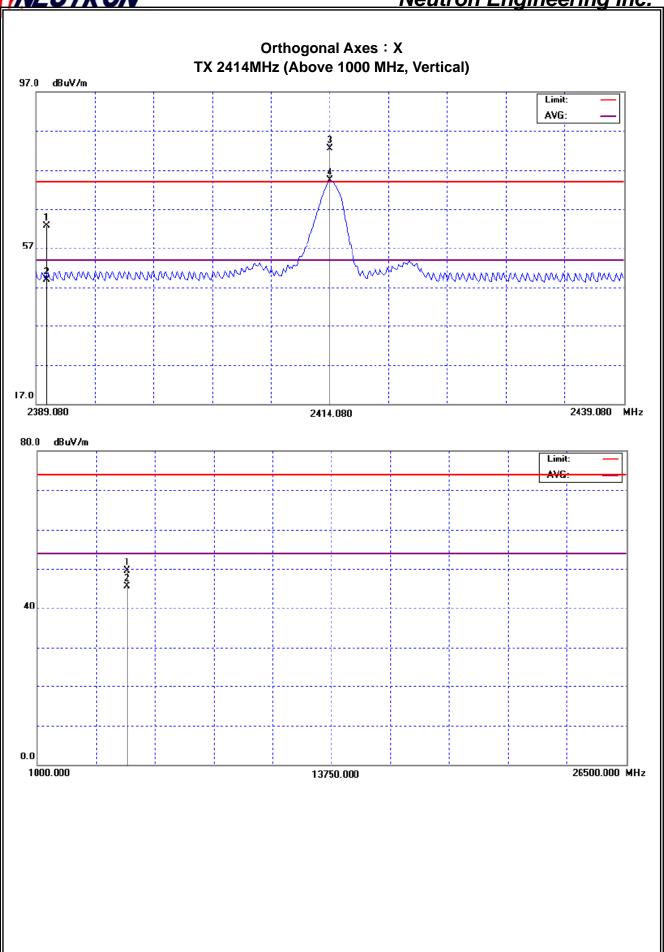
Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2389.98	V	30.70	16.79	32.05	62.75	48.84	74.00	54.00	X/E
2414.08	٧	50.32	42.21	32.13	82.45	74.34	114.00	94.00	X/F
4825.70	V	45.88	41.99	3.57	49.45	45.56	74.00	54.00	X/H

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $^{\mathbb{F}}$ Note  $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2414MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.08	Н	30.04	18.22	32.05	62.09	50.27	74.00	54.00	X/E
2413.98	Н	57.47	46.95	32.12	89.59	79.07	114.00	94.00	X/F
4825.70	Н	51.02	44.81	3.57	54.59	48.38	74.00	54.00	X/H

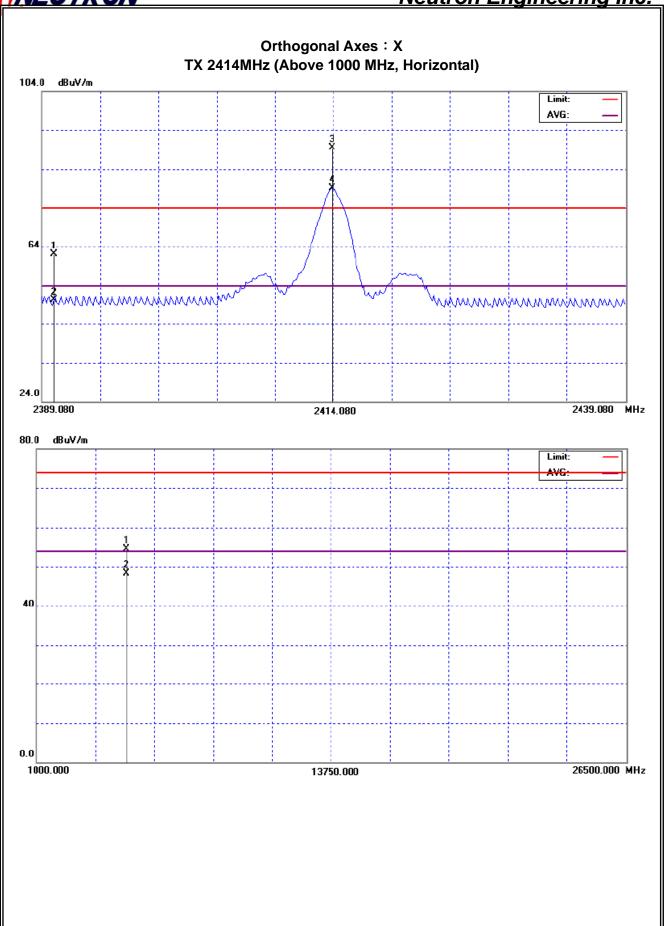
#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

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EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2450MHz		

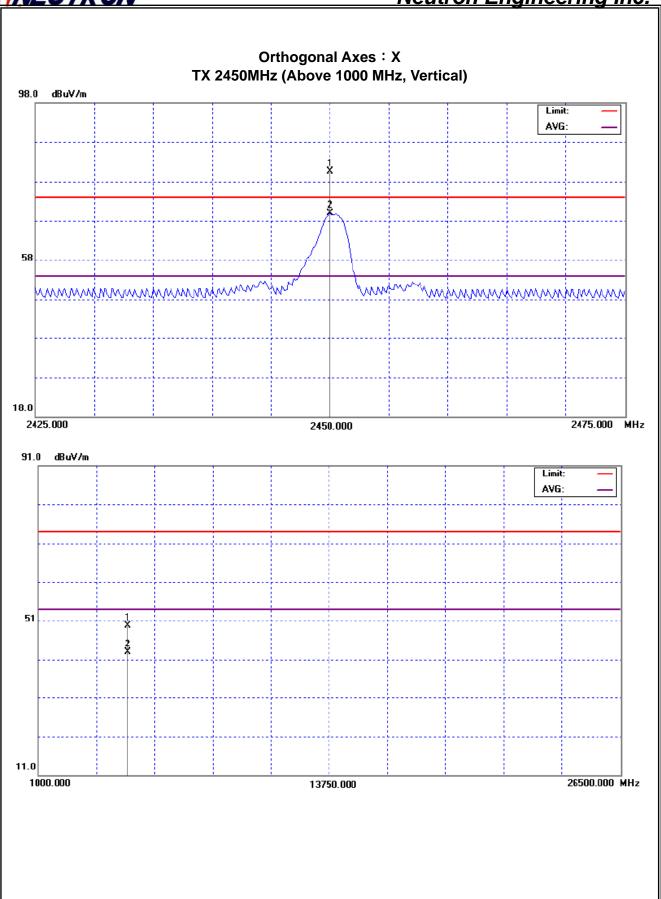
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2450.00	V	48.17	37.62	32.24	80.41	69.86	114.00	94.00	X/F
4897.80	V	45.90	39.05	3.79	49.69	42.84	74.00	54.00	X/H

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2450MHz		

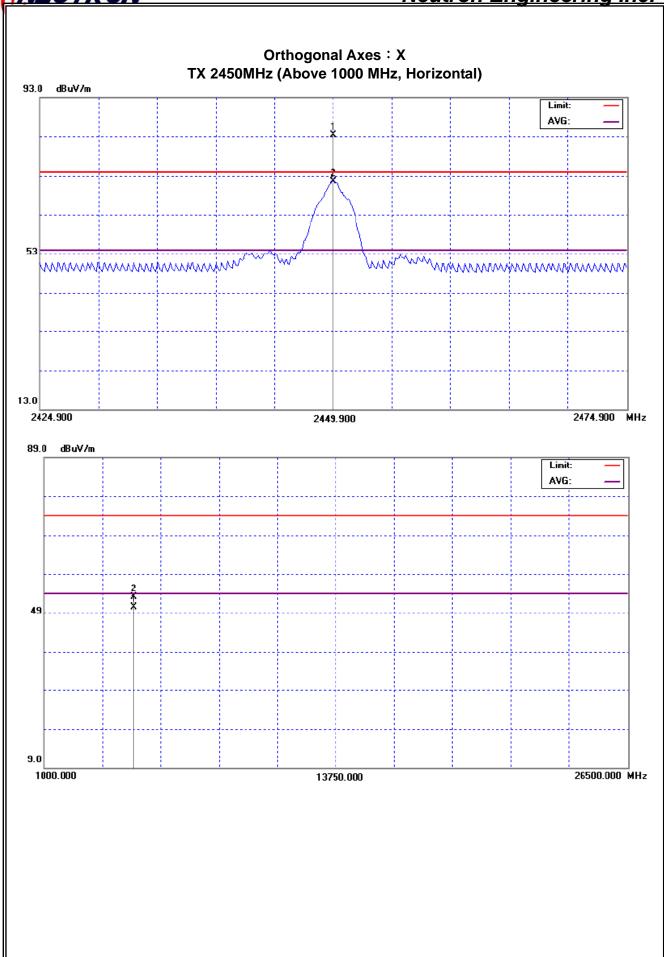
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2449.90	Н	51.16	39.34	32.24	83.40	71.58	114.00	94.00	X/F
4897.70	Н	49.36	46.78	3.79	53.15	50.57	74.00	54.00	X/H

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2468MHz		

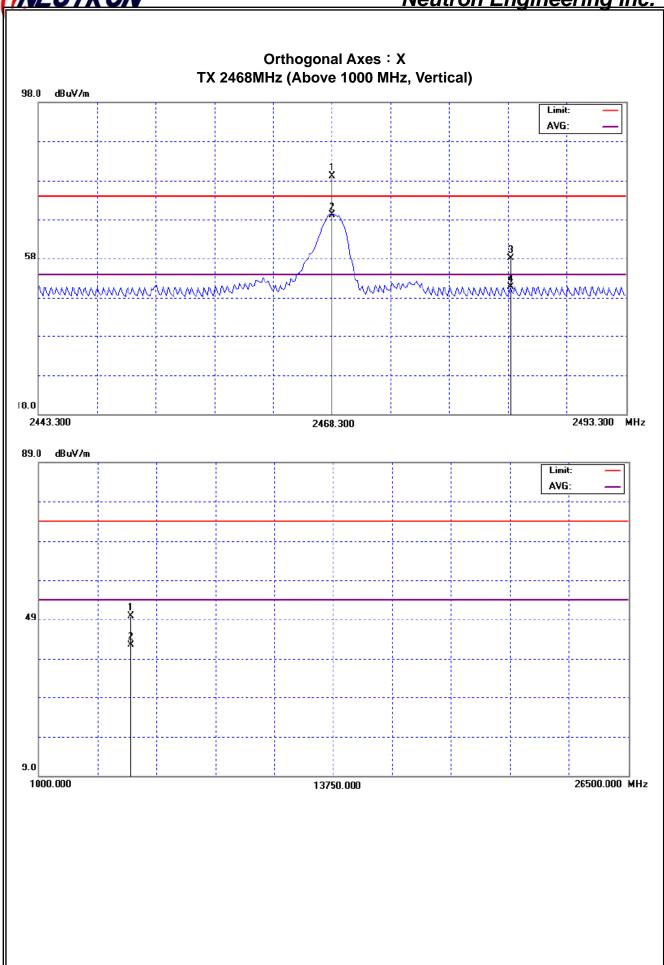
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2468.30	V	46.88	36.82	32.30	79.18	69.12	114.00	94.00	X/F
2483.50	V	25.77	18.27	32.35	58.12	50.62	74.00	54.00	X/E
4933.76	V	45.96	38.56	3.90	49.86	42.46	74.00	54.00	X/H

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature:	<b>25</b> ℃	Relative Humidity:	60 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2468MHz		

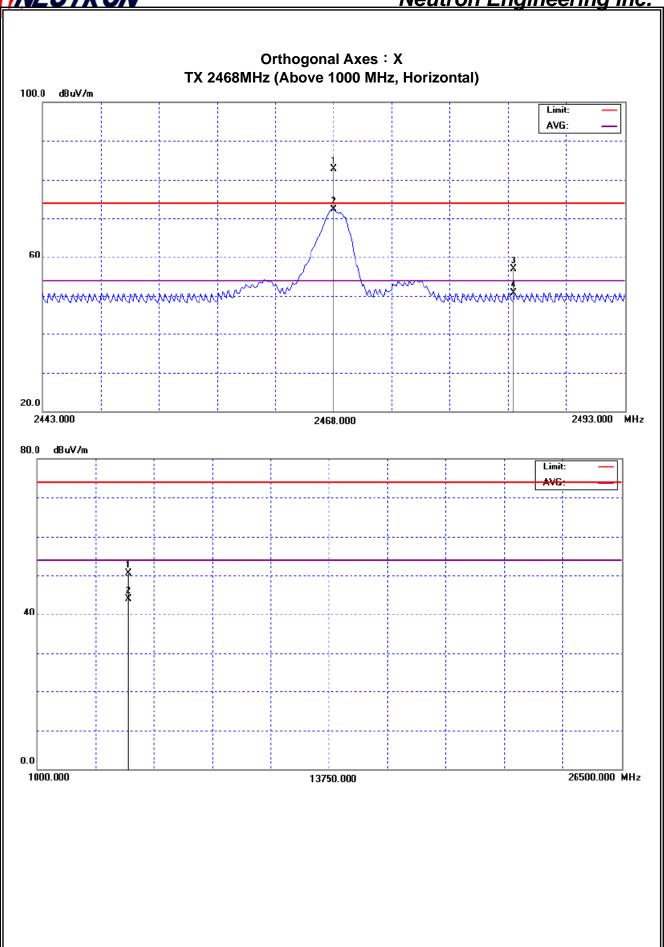
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2468.00	Н	50.47	40.02	32.30	82.77	72.32	114.00	94.00	X/F
2483.50	Н	24.55	18.26	32.35	56.90	50.61	74.00	54.00	X/E
4933.80	Н	46.64	40.04	3.90	50.54	43.94	74.00	54.00	X/H

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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# 4.2.9 TEST RESULTS (2400 – 2483.5 MHz)

EUT:	2.4G Wireless camera	Model No. :	AT206					
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %					
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz					
Test Mode :	TX CH 2414MHz/2450MHz/2468MHz							

		Peak	AV		Peak	AV	Peak	AV	
Freq.	Ant.Pol.	Rea	ding	Ant./CL/	Actua	al FS	Lim	it3m	
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	NOTE
2414.08	V	50.32	42.21	32.13	82.45	74.34	114.00	94.00	CH01
2413.98	Н	57.47	46.95	32.12	89.59	79.07	114.00	94.00	CH01
2450.00	V	48.17	37.62	32.24	80.41	69.86	114.00	94.00	CH03
2449.90	Н	51.16	39.34	32.24	83.40	71.58	114.00	94.00	CH03
2468.30	V	46.88	36.82	32.30	79.18	69.12	114.00	94.00	CH04
2468.00	Н	50.47	40.02	32.30	82.77	72.32	114.00	94.00	CH04

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $^{\mathbb{F}}$ Note  $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{\circ}$
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (3) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) EUT Orthogonal Axes:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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# 4.2.10 TEST RESULTS (Restricted Bands Requirements)

EUT:	2.4G Wireless camera	Model No. :	AT206				
Temperature :	25 ℃	Relative Humidity:	60 %				
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz				
Test Mode :	TX CH 2414MHz/2468MHz(Vertical)						
Note:	<ul> <li>The emission of the carrier radial</li> <li>AV) as following:</li> <li>1. The transmitter was then conto transmit at the lowest charmeasured at 2310-2390 MH;</li> <li>2. The transmitter was configurationsmit at the highest charmeasured at 2483.5-2500 M</li> </ul>	nfigured with the wor nnel (CH01). Then th z. red with the worst can nel (CH04). Then the	st case antenna and setup the field strength was se antenna and setup to				

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2389.98	V	30.70	16.79	32.05	62.75	48.84	74.00	54.00	CH01
2483.50	V	25.77	18.27	32.35	58.12	50.62	74.00	54.00	CH04

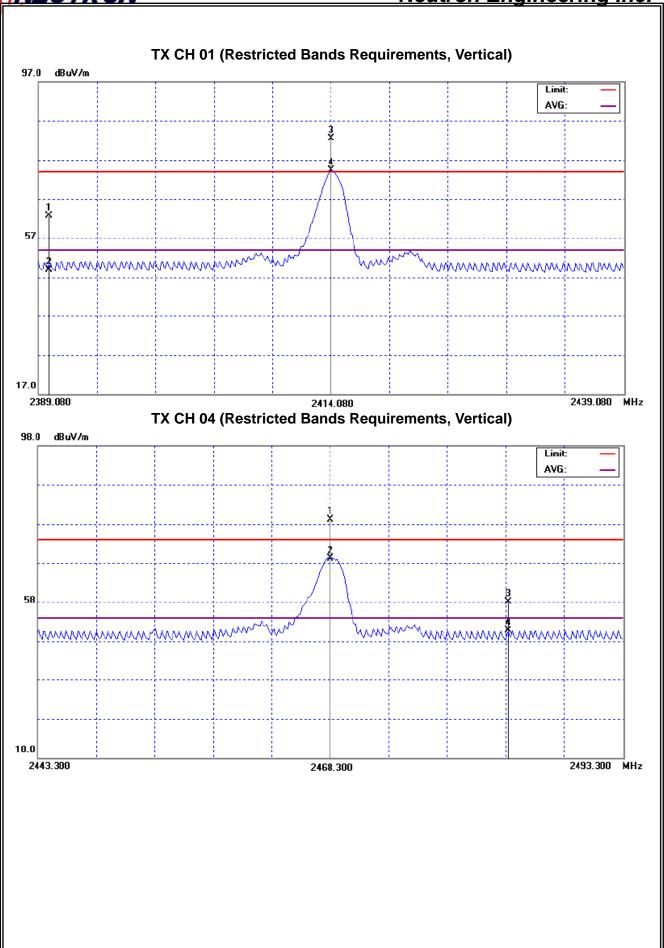
# Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (2) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

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EUT:	2.4G Wireless camera	Model No. :	AT206			
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %			
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz			
Test Mode :	TX CH 2414MHz/2468MHz (I	TX CH 2414MHz/2468MHz (Horizontal)				
Note:	The emission of the carrier ra AV) as following:  1. The transmitter was then contour to transmit at the lowest character was configured at 2310-2390 Miles. The transmitter was configured at the highest character was at 2483.5-2500 Miles.	onfigured with the wor annel (CH01). Then th Hz. ured with the worst ca nnel (CH04). Then the	rst case antenna and setup ne field strength was se antenna and setup to			

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.08	Н	30.04	18.22	32.05	62.09	50.27	74.00	54.00	CH01
2483.50	Н	24.55	18.26	32.35	56.90	50.61	74.00	54.00	CH04

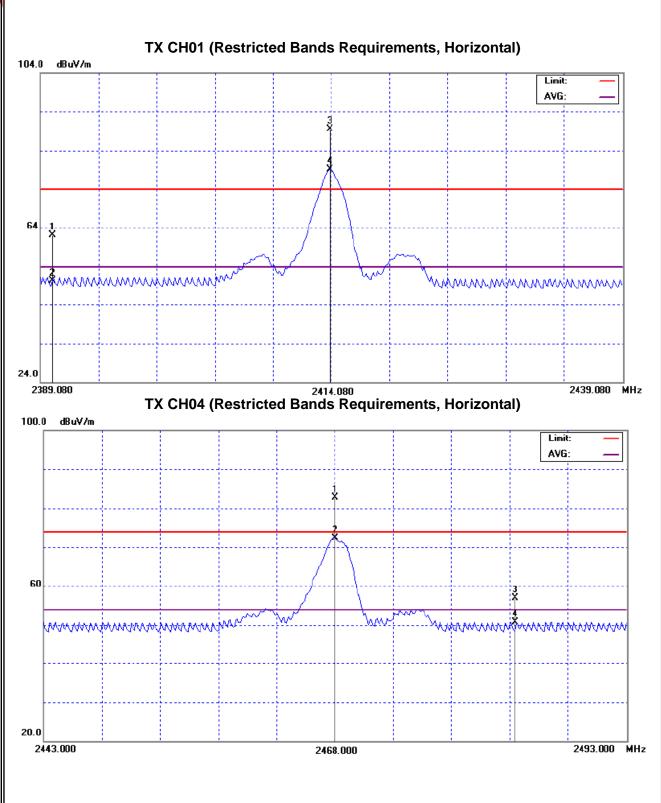
### Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\,^{\circ}$
- (2) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

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### 5. BANDWIDTH TEST

### 5.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 08, 2008

Remark: "N/A" denotes No Model No., Serial No. or No Calibration specified.

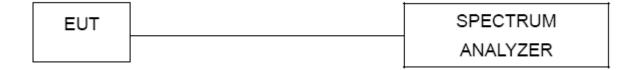
### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 20 ms.

### 5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

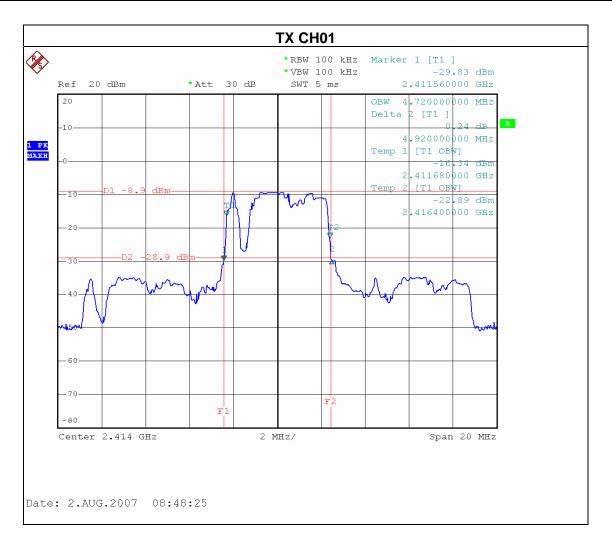
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### 5.6 TEST RESULTS

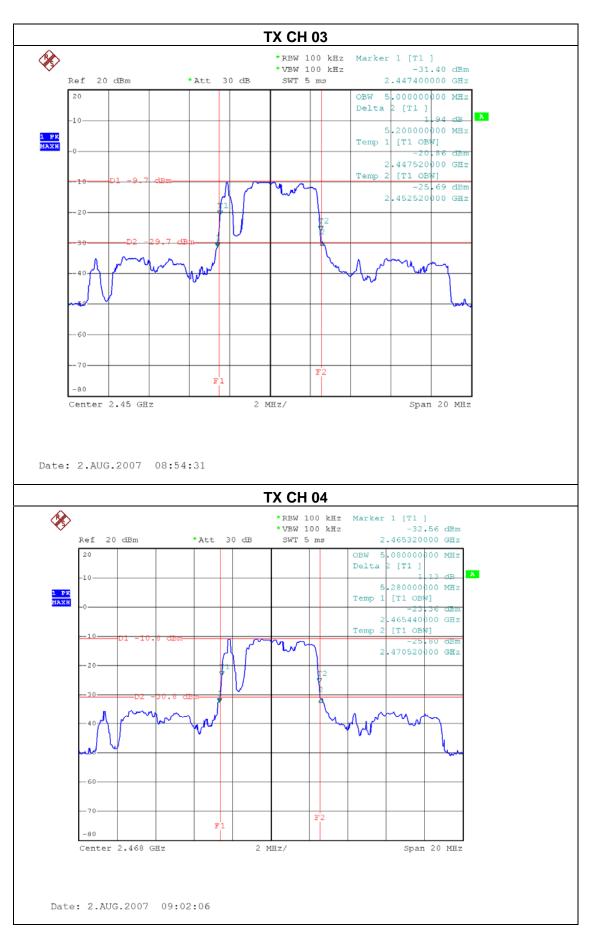
EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature:	<b>25</b> ℃	Relative Humidity:	60 %
Pressure:	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX CH 01/03/04		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% occupied Bandwidth(MHz)
CH01	2414	4.92	4.72
CH03	2450	5.20	5.00
CH04	2468	5.28	5.08



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### 6. ANTENNA CONDUCTED SPURIOUS EMISSION

### 6.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 08, 2008

Remark: "N/A" denotes No Model No., Serial No. or No Calibration specified.

The following table is the setting of the spectrum analyzer.

The lengthing table is the setting of the opt	Journal of a large of the second of the seco
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100 KHz /100 KHz for Peak

### 6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.

### 6.1.3 DEVIATION FROM STANDARD

No deviation.

### 6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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# 6.1.5 EUT OPERATION CONDITIONS The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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### 6.1.6 TEST RESULTS

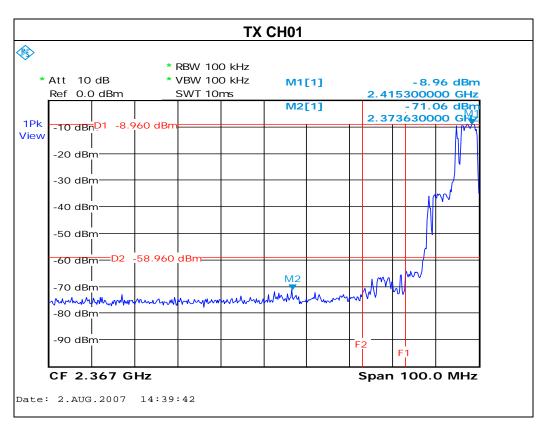
EUT:	2.4G Wireless camera	Model No. :	AT206
Temperature :	<b>25</b> ℃	Relative Humidity:	60 %
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX CH01, CH04		

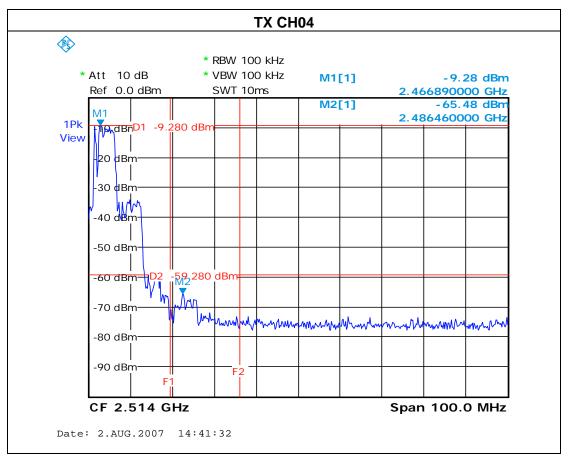
Channel of Worst Data: CH04					
	cy power in any 100kHz the frequency band	The max. radio frequence bandwidth within the			
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2373.63	-65.48				
Result					

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 50dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

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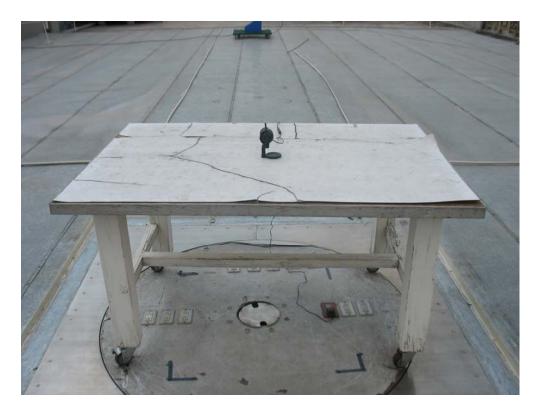
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## 7. EUT TEST PHOTO

# Radiated Measurement Photos TX Mode





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# Conducted Measurement Photos (Normal Link)





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