FCC ID: TW4BT502

FCC TEST REPORT

REPORT NO.: 060816FIA01

MODEL NO.: BT502

RECEIVED: Aug. 24, 2006

TESTED: Aug. 24 ~ Aug. 27, 2006

ISSUED: Aug. 31, 2006

APPLICANT: SHENZHEN AEE TECHNOLOGY CO., LTD

ADDRESS: 1/F., Blog. B, Tsinghua Hi-Tech Park,
Northern Hi-Tech Industrial Park,
Nanshan District, Shenzhen, P. R. C

ISSUED BY: ADT (Shanghai) Corporation

ADDRESS: 2F, Building C, No.1618, Yishan rd., 201103,
Shanghai, China

ADT (Shanghai) Corporation.

ACCREDITED
No.: 2343.01

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1 CERTIFICATION

PRODUCT:	2.4G wireless camera
BRAND NAME:	AEE
MODEL NO.:	BT502
APPLICANT:	SHENZHEN AEE TECHNOLOGY CO., LTD
TESTED:	Aug. 24 ~ Aug. 27, 2006
TEST ITEM:	ENGINEERING SAMPLE
STANDARDS:	47 CFR Part 15, Subpart C (Section 15.249), ANSI C63.4-2003

The above equipment has been tested by **ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

TECHNICAL ACCEPTANCE : _____ , **DATE:** AUG. 31, 2006

(Bright Tong)
Engineering Supervisor

APPROVED BY : _____ , **DATE:** AUG. 31, 2006

(Wallace Pan)
Director of Operations

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Paragraph	**Test Type**	**Result**	**Remark**
15.207	Conducted Emission Test (Mode A1)	PASS	Minimum passing margin is –35.30dB at 1.016MHz
	Conducted Emission Test (Mode B1)	PASS	Minimum passing margin is –33.72dB at 1.045MHz
15.249	Radiated Emission Test (Mode A1)	PASS	Minimum passing margin is –2.08dB at 12340MHz
	Radiated Emission Test (Mode B1)	PASS	Minimum passing margin is –1.97dB at 12340MHz
	Radiated Emission Test (Mode C1)	PASS	Minimum passing margin is –2.03dB at 12340MHz
	Radiated Emission Test (Mode A2)	PASS	Minimum passing margin is –15.12dB at 124.15MHz
	Radiated Emission Test (Mode B2)	PASS	Minimum passing margin is –26.02dB at 905.42MHz
	Radiated Emission Test (Mode C2)	PASS	Minimum passing margin is –6.06dB at 200.53MHz
15.249	Band Edge Measurement	PASS	Meet the requirement of limit

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

Measurement	Value
Conducted emissions	1.8dB
Radiated emissions	3.5dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	2.4G wireless camera
MODEL NO.	BT502
POWER SUPPLY	Powered by adapter: 120Vac, 60Hz Powered by Batteries: 4.5Vdc (3*AAA)
MODULATION TYPE	FM
FREQUENCY RANGE OF OPERATION	2.414 ~ 2.468 MHz
CHANNEL SEPARATION	18 MHz
NUMBER OF CHANNEL	4
ANTENNA TYPE	Connector
DATA CABLE SUPPLIED	N/A
I/O PORTS	N/A

NOTE: 1. The EUT contains two parts. One is TX (model No.: BT502, device name: 2.4G wireless camera) and the other one is RX (model No.: UR401, device name: 2.4G USB receiver). This test report only recorded the test results of TX. As to the test results of RX please refer to report 060816FA01, which produced under subcontract of Advance Data Technology Corp..

2. The followings are the specifications for the two adapters used during the tests:

Adapter	Brand name	Model No.	Voltage
A	IE	ILD35V-0750300	7.5V
B	IE	ILD35V-0800300	8V

3. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

4 channels are provided to this EUT:

Channel	Frequency
1	2.414 GHz
2	2.432 GHz
3	2.450 GHz
4	2.468 GHz

Test Mode Applicability AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to					Description	
	PLC	RE<1G	RE≥1G	APM	BE		
A1	√	√	√	-	-	Daylight Mode	Powered by 7.5V adapter
B1	√	√	√	-	√		Powered by 8V adapter
C1	-	√	√	-	-		Powered by batteries
A2	-	√	-	-	-	Night Mode	Powered by 7.5V adapter
B2	-	√	-	-	-		Powered by 8V adapter
C2	-	√	-	-	-		Powered by batteries

Where PLC: Power Line Conducted Emission RE<1G RE: Radiated Emission below 1GHz
RE≥1G: Radiated Emission above 1GHz APM: Antenna Port Measurement
BE: Band Edge Measurement

Power Line Conducted Emission Test

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.

☒ Following channel(s) was (were) selected for the final test as listed below.

Test Mode	Available Channel	Tested Channel	Modulation Type	Axis
A1	1~4	1	FM	Z
B1	1~4	1	FM	Z

Radiated Emission Test (Below 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.

☒ Following channel(s) was (were) selected for the final test as listed below.

Test Mode	Available Channel	Tested Channel	Modulation Type	Axis
A1	1~4	1	FM	Z
B1	1~4	1	FM	Z
C1	1~4	1	FM	Z
A2	1~4	1	FM	Z
B2	1~4	1	FM	Z
C2	1~4	1	FM	Z

Radiated Emission Test (Above 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.

☒ Following channel(s) was (were) selected for the final test as listed below.

Test Mode	Available Channel	Tested Channel	Modulation Type	Axis
A1	1~4	1, 2, 4	FM	Z
B1	1~4	1, 2, 4	FM	Z
C1	1~4	1, 2, 4	FM	Z

Band Edge Measurement

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.

☒ Following channel(s) was (were) selected for the final test as listed below.

Test Mode	Available Channel	Tested Channel	Modulation Type	Axis
B1	1~4	1, 4	FM	Z

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 2.4G wireless camera. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C (Section 15.249)
ANSI C63.4: 2003

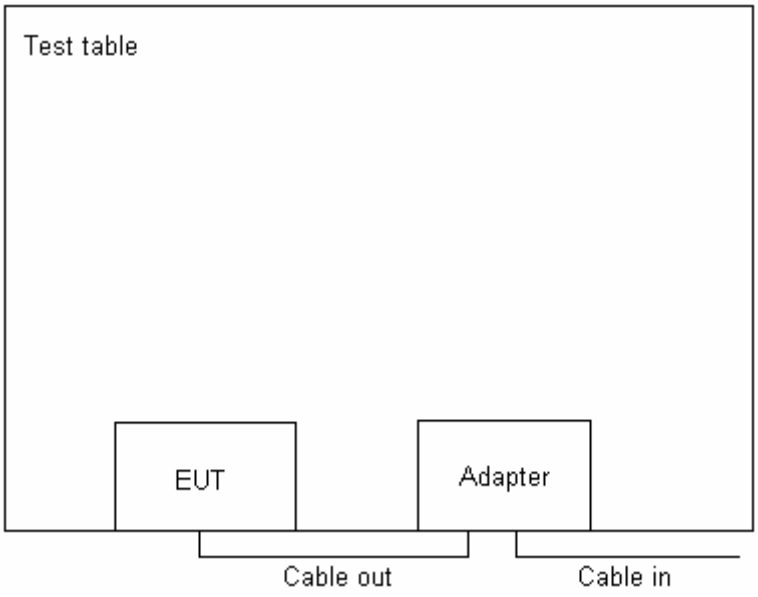
All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

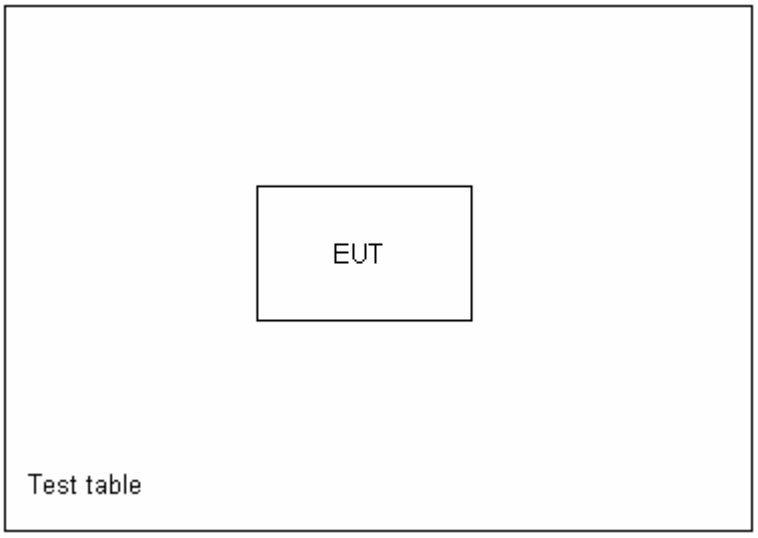
The EUT has been tested as an independent unit

Note: 1*1.5m non-shielded power cable was used during the test mode A/B.

For test mode: A1/B1/A2/B2



For test mode: C1/C2



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTES: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1002	Jun. 12, 2007
LISN ROHDE & SCHWARZ	NSLK8127	E1L1001	Jan. 31, 2007
Software ADT	ADT_Cond_V7.3.0	N/A	N/A

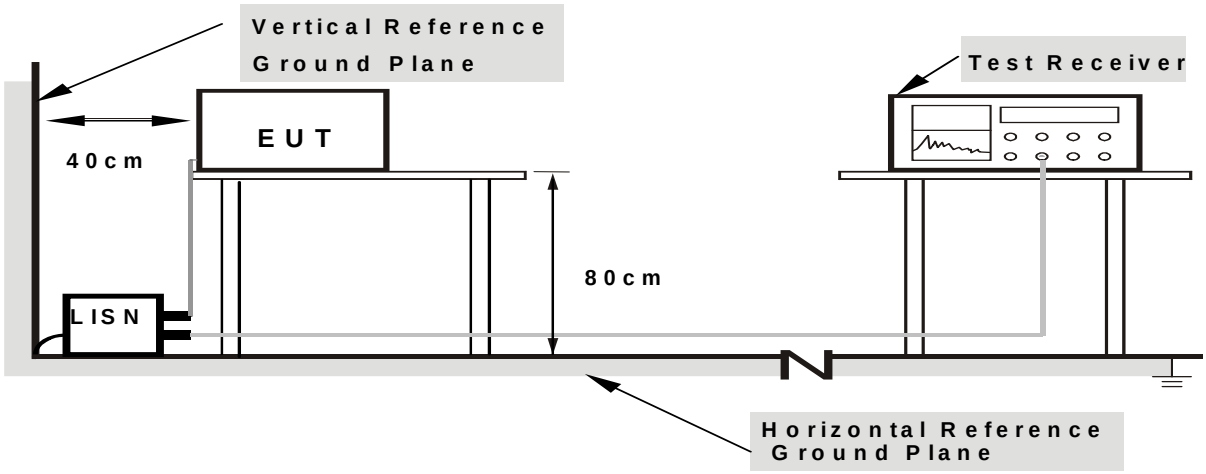
4.1.3 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit - 20dB) were not reported.

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.5 EUT OPERATING CONDITIONS

Set the EUT under transmission condition continuously at specific channel frequency.

4.1.6 TEST RESULTS

EUT	2.4G wireless camera	**MODEL NO.**	BT502
TEST MODE	Mode A1	**6dB BANDWIDTH**	9kHz
INPUT POWER	120Vac, 60Hz	**PHASE**	Line (L1)
ENVIRONMENTAL CONDITIONS	20deg. C, 50% RH, 1012hPa	**TESTED BY:** SAKULA	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.373	0.65	16.79	-0.37	17.44	0.28	58.44	48.44	-41.00	-48.16
2	0.983	0.53	16.60	7.82	17.13	8.35	56.00	46.00	-38.87	-37.65
3	1.615	0.56	11.12	6.41	11.68	6.97	56.00	46.00	-44.32	-39.03
4	3.312	0.61	10.88	6.37	11.49	6.98	56.00	46.00	-44.51	-39.02
5	7.157	0.74	10.76	6.33	11.50	7.07	60.00	50.00	-48.50	-42.93
6	23.780	1.25	13.76	7.27	15.01	8.52	60.00	50.00	-44.99	-41.48

REMARKS: 1.Margin value = Emission level - Limit value
2 Correction factor = Insertion loss + Cable loss
3. Emission Level = Correction Factor + Reading Value.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
TEST MODE	Mode A1	**6dB BANDWIDTH**	9kHz
INPUT POWER	120Vac, 60Hz	**PHASE**	N
ENVIRONMENTAL CONDITIONS	20deg. C, 50% RH, 1012hPa	**TESTED BY:** SAKULA	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.402	0.64	16.73	2.52	17.37	3.16	57.81	47.81	-40.44	-44.65
2	**1.016**	**0.64**	**20.05**	**10.06**	**20.69**	**10.70**	**56.00**	**46.00**	**-35.31**	**-35.30**
3	2.746	0.60	4.69	0.53	5.29	1.13	56.00	46.00	-50.71	-44.87
4	8.100	0.70	4.36	0.35	5.06	1.05	60.00	50.00	-54.94	-48.95
5	15.763	0.94	4.54	0.44	5.48	1.38	60.00	50.00	-54.52	-48.62
6	24.067	1.18	9.38	4.18	10.56	5.36	60.00	50.00	-49.44	-44.64

REMARKS: 1.Margin value = Emission level - Limit value
2 Correction factor = Insertion loss + Cable loss
3. Emission Level = Correction Factor + Reading Value.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
TEST MODE	Mode B1	**6dB BANDWIDTH**	9kHz
INPUT POWER	120Vac, 60Hz	**PHASE**	Line (L1)
ENVIRONMENTAL CONDITIONS	20deg. C, 50% RH, 1012hPa	**TESTED BY:** SAKULA	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.503	0.46	13.65	5.81	14.11	6.27	56.00	46.00	-41.89	-39.73
2	1.024	0.54	20.03	10.66	20.57	11.20	56.00	46.00	-35.43	-34.80
3	2.060	0.55	6.13	3.66	6.68	4.21	56.00	46.00	-49.32	-41.79
4	3.779	0.68	7.96	4.35	8.64	5.03	56.00	46.00	-47.36	-40.97
5	6.661	0.74	6.13	3.70	6.87	4.44	60.00	50.00	-53.13	-45.56
6	16.537	0.98	6.26	3.73	7.24	4.71	60.00	50.00	-52.76	-45.29

REMARKS: 1.Margin value = Emission level - Limit value
2 Correction factor = Insertion loss + Cable loss
3. Emission Level = Correction Factor + Reading Value.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
TEST MODE	Mode B1	**6dB BANDWIDTH**	9kHz
INPUT POWER	120Vac, 60Hz	**PHASE**	N
ENVIRONMENTAL CONDITIONS	20deg. C, 50% RH, 1012hPa	**TESTED BY:** SAKULA	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.358	0.69	18.49	5.36	19.18	6.05	58.77	48.77	-39.60	-42.73
2	**1.045**	**0.65**	**21.49**	**11.63**	**22.14**	**12.28**	**56.00**	**46.00**	**-33.86**	**-33.72**
3	1.641	0.64	3.32	-2.28	3.96	-1.64	56.00	46.00	-52.04	-47.64
4	2.812	0.60	-2.49	-8.09	-1.89	-7.49	56.00	46.00	-57.89	-53.49
5	8.773	0.72	-4.91	-10.47	-4.19	-9.75	60.00	50.00	-64.19	-59.75
6	14.788	0.89	-4.04	-9.91	-3.15	-9.02	60.00	50.00	-63.15	-59.02

REMARKS: 1.Margin value = Emission level - Limit value
2 Correction factor = Insertion loss + Cable loss
3. Emission Level = Correction Factor + Reading Value.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.249 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)	
	Peak	Average
2400 ~ 2483.5	113.98	93.98

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/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

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Apr. 19, 2007
BILOG Antenna SCHWARZBECK	VULB9168	E1A1001	Sept. 26, 2006
Preamplifier Agilent	8447D	E1A2001	Jan. 27, 2007
Preamplifier Agilent	8449B	E1A2002	Jan. 27, 2007
Double Ridged Broadband Horn Antenna Schwarzbeck	BBHA 9120D	E1A1002	Feb. 15, 2007
Spectrum Analyzer Agilent	E4403B	E1S1001	Jan. 13, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP	E1S1002	May. 15, 2007
RF signal cable Woken	RG-402	E1CBH01	May. 30, 2007
RF signal cable Woken	RG-402	E1CBH02	May. 30, 2007
RF signal cable Woken	RG-402	E1CBH03	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL02	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL03	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL04	May. 30, 2007
Software ADT	ADT_Radiated_V7.5	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months.
2. The horn antenna and Agilent preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The Spectrum Analyzer (model: FSP) and RF signal cable (SERIAL: E1CBH05&E1CBH07) are used only for the measurement of emission frequency above 1GHz if tested.

4.2.3 TEST PROCEDURE

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

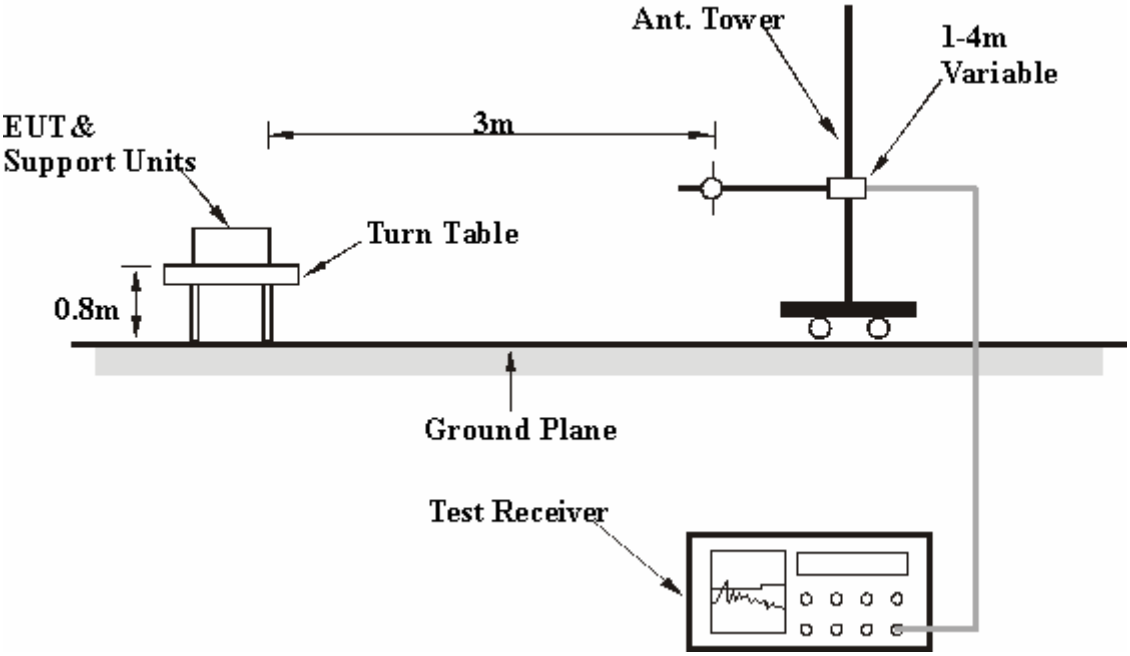
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

Below 1GHz Worst-Case Data

Mode A1

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	30 ~ 1000 MHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	Quasi-Peak
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	54.25	15.18	-7.67	7.51	40.00	-32.49	141.00	288.00
2	158.53	17.06	-7.36	9.69	43.50	-33.81	127.00	205.00
3	350.33	17.48	6.16	23.64	46.00	-22.36	298.00	19.00
4	369.27	18.01	6.20	24.21	46.00	-21.79	400.00	0.00
5	553.80	22.15	-7.33	14.81	46.00	-31.19	214.00	134.00
6	624.12	23.58	-7.38	16.20	46.00	-29.80	298.00	64.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	53.21	15.25	10.30	25.54	40.00	-14.46	100.00	317.00
2	59.11	14.84	4.01	18.85	40.00	-21.15	101.00	9.00
3	177.35	15.03	6.15	21.18	43.50	-22.32	99.00	291.00
4	350.33	17.48	6.36	23.84	46.00	-22.16	400.00	0.00
5	369.27	18.01	6.93	24.94	46.00	-21.06	400.00	19.00
6	633.83	23.70	-7.34	16.37	46.00	-29.63	108.00	101.00

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

Mode B1

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	30 ~ 1000 MHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	Quasi-Peak
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	49.40	15.47	-7.32	8.15	40.00	-31.85	386.00	19.00
2	179.90	14.65	1.28	15.93	43.50	-27.57	100.00	0.00
3	350.33	17.48	7.12	24.60	46.00	-21.40	294.00	19.00
4	369.27	18.01	5.61	23.62	46.00	-22.38	273.00	0.00
5	512.58	21.14	-7.18	13.95	46.00	-32.05	99.00	155.00
6	638.67	23.76	-7.44	16.32	46.00	-29.68	176.00	78.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	59.11	14.84	11.71	26.55	40.00	-13.45	100.00	54.00
2	124.15	15.01	3.41	18.43	43.50	-25.07	100.00	351.00
3	177.35	15.03	9.48	24.50	43.50	-19.00	101.00	344.00
4	266.03	15.35	5.66	21.01	46.00	-24.99	99.00	267.00
5	350.33	17.48	6.91	24.39	46.00	-21.61	400.00	0.00
6	369.27	18.01	7.18	25.19	46.00	-20.81	400.00	0.00

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

Mode C1

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	30 ~ 1000 MHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	4.5Vdc
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	Quasi-Peak
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	201.78	12.98	18.56	31.54	43.50	-11.96	199.00	306.00
2	224.70	14.17	18.84	33.01	46.00	-12.99	100.00	325.00
3	459.23	20.26	-5.28	14.98	46.00	-31.02	198.00	245.00
4	568.35	22.47	-8.08	14.39	46.00	-31.61	283.00	174.00
5	709.00	24.76	-8.09	16.67	46.00	-29.33	359.00	109.00
6	837.52	26.24	-8.36	17.88	46.00	-28.12	399.00	8.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	200.44	12.96	24.31	37.27	43.50	-6.23	101.00	158.00
2	228.18	14.41	21.42	35.82	46.00	-10.18	101.00	317.00
3	371.93	18.08	-6.94	11.14	46.00	-34.86	101.00	13.00
4	492.35	20.76	-3.03	17.73	46.00	-28.27	101.00	291.00
5	643.52	23.81	-7.18	16.63	46.00	-29.37	101.00	333.00
6	762.35	25.47	-7.83	17.64	46.00	-28.36	101.00	294.00

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

Mode A2

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	30 ~ 1000 MHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	Quasi-Peak
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	42.12	15.75	-7.62	8.13	40.00	-31.87	141.00	169.00
2	163.37	16.75	-7.18	9.57	43.50	-33.93	117.00	81.00
3	301.60	16.58	-6.60	9.97	46.00	-36.03	147.00	204.00
4	507.73	21.03	-7.12	13.92	46.00	-32.08	160.00	271.00
5	723.55	25.06	-7.60	17.46	46.00	-28.54	134.00	223.00
6	927.25	27.69	-6.66	21.03	46.00	-24.97	150.00	139.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	49.40	15.47	-5.93	9.54	40.00	-30.46	100.00	98.00
2	**124.15**	**15.01**	**13.36**	**28.38**	**43.50**	**-15.12**	**100.00**	**16.00**
3	342.82	17.38	-7.02	10.35	46.00	-35.65	100.00	201.00
4	539.25	21.78	-7.34	14.44	46.00	-31.56	100.00	279.00
5	696.87	24.53	-6.46	18.07	46.00	-27.93	100.00	265.00
6	905.42	27.33	-7.33	20.00	46.00	-26.00	100.00	185.00

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

Mode B2

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	30 ~ 1000 MHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	Quasi-Peak
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	117.30	14.44	-7.25	7.19	43.50	-36.31	153.00	29.00
2	255.53	14.98	-6.74	8.25	46.00	-37.75	227.00	89.00
3	481.05	20.60	-6.89	13.71	46.00	-32.29	302.00	151.00
4	660.50	24.01	-7.10	16.91	46.00	-29.09	263.00	233.00
5	806.00	25.95	-7.38	18.57	46.00	-27.43	100.00	0.00
6	**905.42**	**27.33**	**-7.35**	**19.98**	**46.00**	**-26.02**	**179.00**	**304.00**

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	141.55	16.34	-7.34	9.00	43.50	-34.50	100.00	307.00
2	313.73	16.87	-7.00	9.87	46.00	-36.13	100.00	317.00
3	481.05	20.60	-6.85	13.75	46.00	-32.25	100.00	255.00
4	575.62	22.63	-7.27	15.37	46.00	-30.63	100.00	171.00
5	699.30	24.57	-6.85	17.71	46.00	-28.29	100.00	240.00
6	806.00	25.95	-7.44	18.51	46.00	-27.49	100.00	60.00

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

Mode C2

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	30 ~ 1000 MHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	4.5Vdc
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	Quasi-Peak
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	201.56	12.98	17.56	30.54	43.50	-12.96	184.00	311.00
2	224.44	14.15	19.86	34.01	46.00	-11.99	120.00	125.00
3	367.07	17.95	-6.40	11.55	46.00	-34.45	100.00	286.00
4	512.58	21.14	-8.93	12.21	46.00	-33.79	120.00	283.00
5	643.52	23.81	-9.93	13.88	46.00	-32.12	103.00	186.00
6	837.52	26.24	-11.06	15.18	46.00	-30.82	109.00	183.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	**200.53**	**12.96**	**24.48**	**37.44**	**43.50**	**-6.06**	**98.00**	**356.00**
2	224.82	14.18	20.56	34.74	46.00	-11.26	98.00	335.00
3	371.93	18.08	-6.92	11.16	46.00	-34.84	100.00	249.00
4	517.42	21.24	-7.83	13.41	46.00	-32.59	100.00	325.00
5	604.73	23.22	-7.59	15.63	46.00	-30.37	100.00	113.00
6	682.33	24.30	-7.90	16.39	46.00	-29.61	100.00	182.00

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

Above 1GHz Worst-Case Data

Mode A1

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2414PK	35.24	54.75	89.98	113.98	-24.00	100	33
*1	2414AV	35.24	32.55	67.78	93.98	-26.20	100	33
2	4828PK	41.22	15.57	56.79	74	-17.21	212	334
2	4828AV	41.22	0.77	41.99	54	-12.01	212	334
3	7242PK	48.84	9.84	58.68	74	-15.32	123	213
3	7242AV	48.84	-1.23	47.61	54	-6.39	123	213
4	9656PK	52.33	7.52	59.85	74	-14.15	234	19
4	9656AV	52.33	-3.43	48.91	54	-5.09	234	19
5	12070PK	53.59	9.29	62.87	74	-11.13	178	74
5	12070AV	53.59	-1.87	51.71	54	-2.29	178	74

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2414PK	35.24	63.58	98.81	113.98	-15.17	101	117
*1	2414AV	35.24	35.81	71.04	93.98	-22.94	101	117
2	4828PK	41.22	14.54	55.76	74	-18.24	101	224
2	4828AV	41.22	0.55	41.77	54	-12.23	101	224
3	7242PK	48.84	9.98	58.82	74	-15.18	101	147
3	7242AV	48.84	-1.27	47.57	54	-6.43	101	147
4	9656PK	52.33	7.83	60.16	74	-13.84	101	112
4	9656AV	52.33	-3.45	48.88	54	-5.12	101	112
5	12070PK	53.59	8.79	62.38	74	-11.62	101	233
5	12070AV	53.59	-1.91	51.68	54	-2.32	101	233

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 2	**FREQUENCY RANGE**	Above 1GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2432PK	35.26	54.41	89.66	113.98	-35.25	100	133
*1	2432AV	35.26	30.69	65.94	93.98	-35.25	100	133
2	4864PK	41.34	15.81	57.16	74	-16.84	100	246
2	4864AV	41.34	-0.07	41.28	54	-12.72	100	246
3	7296PK	48.96	10.53	59.5	74	-14.5	100	76
3	7296AV	48.96	-0.68	48.28	54	-5.72	100	76
4	9728PK	52.42	6.83	59.25	74	-14.75	100	38
4	9728AV	52.42	-4.54	47.88	54	-6.12	100	38
5	12160PK	53.54	8.9	62.44	74	-11.56	100	99
5	12160AV	53.54	-1.71	51.83	54	-2.17	100	99

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2432PK	35.26	65.92	101.17	113.98	-12.81	100	221
*1	2432AV	35.26	37.69	72.95	93.98	-21.03	100	221
2	4864PK	41.34	19.9	61.25	74	-12.75	100	67
2	4864AV	41.34	2.63	43.97	54	-10.03	100	67
3	7296PK	48.96	10.26	59.22	74	-14.78	100	97
3	7296AV	48.96	-0.66	48.3	54	-5.7	100	97
4	9728PK	52.42	7.55	59.98	74	-14.02	100	34
4	9728AV	52.42	-4.34	48.08	54	-5.92	100	34
5	12160PK	53.54	9.99	63.54	74	-10.46	100	68
5	12160AV	53.54	-1.68	51.87	54	-2.13	100	68

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 4	**FREQUENCY RANGE**	Above 1GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2468PK	35.29	56.04	91.33	113.98	-22.65	100	23
*1	2468AV	35.29	31.59	66.89	93.98	-27.09	100	23
2	4936PK	41.59	14.14	55.73	74	-18.27	100	19
2	4936AV	41.59	-0.6	41	54	-13	100	19
3	7404PK	49.21	8.9	58.11	74	-15.89	100	47
3	7404AV	49.21	-1.81	47.4	54	-6.6	100	47
4	9872PK	52.48	7.98	60.45	74	-13.55	100	66
4	9872AV	52.48	-2.8	49.67	54	-4.33	100	66
5	12340PK	53.46	9.45	62.91	74	-11.09	100	113
5	**12340AV**	**53.46**	**-1.54**	**51.92**	**54**	**-2.08**	**100**	**113**

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2468PK	35.29	65.9	101.2	113.98	-12.78	100	221
*1	2468AV	35.29	36.42	71.71	93.98	-22.27	100	221
2	4936PK	41.59	21.49	63.08	74	-10.92	100	10
2	4936AV	41.59	3.05	44.64	54	-9.36	100	10
3	7404PK	49.21	9.65	58.86	74	-15.14	100	0
3	7404AV	49.21	-1.81	47.4	54	-6.6	100	0
4	9872PK	52.48	8.56	61.04	74	-12.96	100	19
4	9872AV	52.48	-2.58	49.9	54	-4.1	100	19
5	12340PK	53.46	9.49	62.95	74	-11.05	100	33
5	12340AV	53.46	-1.56	51.9	54	-2.1	100	33

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

Mode B1

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2414PK	35.24	54.55	89.79	113.98	-24.19	100	313
*1	2414AV	35.24	32.44	67.68	93.98	-26.3	100	313
2	4828PK	41.22	15.46	56.68	74	-17.32	212	33
2	4828AV	41.22	1.47	42.69	54	-11.31	212	33
3	7242PK	48.84	10.15	58.99	74	-15.01	123	23
3	7242AV	48.84	-1.43	47.41	54	-6.59	123	23
4	9656PK	52.33	7.32	59.65	74	-14.35	234	192
4	9656AV	52.33	-3.26	49.07	54	-4.93	234	192
5	12070PK	53.59	9.46	63.05	74	-10.95	178	14
5	12070AV	53.59	-2.07	51.52	54	-2.48	178	14

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2414PK	35.24	63.69	98.93	113.98	-15.05	101	17
*1	2414AV	35.24	36.12	71.36	93.98	-22.62	101	11
2	4828PK	41.22	14.34	55.56	74	-18.44	101	124
2	4828AV	41.22	0.66	41.88	54	-12.12	101	124
3	7242PK	48.84	10.29	59.13	74	-14.87	101	17
3	7242AV	48.84	-1.47	47.37	54	-6.63	101	17
4	9656PK	52.33	7.63	59.96	74	-14.04	101	152
4	9656AV	52.33	-3.65	48.68	54	-5.32	101	152
5	12070PK	53.59	8.96	62.55	74	-11.45	101	23
5	12070AV	53.59	-2.11	51.48	54	-2.52	101	23

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 2	**FREQUENCY RANGE**	Above 1GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2432PK	35.26	54.09	89.35	113.98	-24.63	100	217
*1	2432AV	35.26	30.37	65.63	93.98	-28.35	100	217
2	4864PK	41.34	15.45	56.79	74	-17.21	100	132
2	4864AV	41.34	0.79	42.13	54	-11.87	100	132
3	7296PK	48.96	9.45	58.41	74	-15.59	100	78
3	7296AV	48.96	-1.22	47.74	54	-6.26	100	78
4	9728PK	52.42	6.03	58.45	74	-15.55	100	6
4	9728AV	52.42	-5.04	47.38	54	-6.62	100	6
5	12160PK	53.54	7.41	60.95	74	-13.05	100	149
5	12160AV	53.54	-2.61	50.93	54	-3.07	100	149

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2432PK	35.26	65.54	100.8	113.98	-13.18	100	174
*1	2432AV	35.26	37.3	72.56	93.98	-21.42	100	174
2	4864PK	41.34	19.54	60.88	74	-13.12	100	33
2	4864AV	41.34	1.93	43.27	54	-10.73	100	33
3	7296PK	48.96	9.97	58.93	74	-15.07	100	79
3	7296AV	48.96	-1.06	47.9	54	-6.1	100	79
4	9728PK	52.42	6.93	59.35	74	-14.65	100	68
4	9728AV	52.42	-5.06	47.36	54	-6.64	100	68
5	12160PK	53.54	9.17	62.71	74	-11.29	100	118
5	12160AV	53.54	-2.3	51.24	54	-2.76	100	118

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 4	**FREQUENCY RANGE**	Above 1GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2468PK	35.29	56.16	91.45	113.98	-22.53	100	213
*1	2468AV	35.29	31.82	67.11	93.98	-26.87	100	213
2	4936PK	41.59	14.25	55.84	74	-18.16	100	109
2	4936AV	41.59	0.14	41.73	54	-12.27	100	109
3	7404PK	49.21	9.11	58.32	74	-15.68	100	247
3	7404AV	49.21	-2.12	47.09	54	-6.91	100	247
4	9872PK	52.48	7.96	60.44	74	-13.56	100	6
4	9872AV	52.48	-2.97	49.51	54	-4.49	100	6
5	12340PK	53.46	9.65	63.11	74	-10.89	100	13
5	**12340AV**	**53.46**	**-1.43**	**52.03**	**54**	**-1.97**	**100**	**13**

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2468PK	35.29	65.78	101.07	113.98	-12.91	100	121
*1	2468AV	35.29	36.19	71.48	93.98	-22.5	100	121
2	4936PK	41.59	21.38	62.97	74	-11.03	100	103
2	4936AV	41.59	3.75	45.34	54	-8.66	100	103
3	7404PK	49.21	9.76	58.97	74	-15.03	100	90
3	7404AV	49.21	-1.5	47.71	54	-6.29	100	90
4	9872PK	52.48	8.36	60.84	74	-13.16	100	119
4	9872AV	52.48	-2.41	50.07	54	-3.93	100	119
5	12340PK	53.46	9.29	62.75	74	-11.25	100	313
5	12340AV	53.46	-1.67	51.79	54	-2.21	100	313

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

Mode C1

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1 GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	4.5Vdc
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2414PK	35.24	53.27	88.5	113.98	-25.48	100	221
*1	2414AV	35.24	30.62	65.86	93.98	-28.12	100	221
2	4828PK	41.22	11.49	52.71	74	-21.29	100	124
2	4828AV	41.22	-0.87	40.35	54	-13.65	100	114
3	7242PK	48.84	11.04	59.88	74	-14.12	100	312
3	7242AV	48.84	-1.44	47.41	54	-6.59	100	312
4	9656PK	52.33	7.28	59.61	74	-14.39	100	176
4	9656AV	52.33	-3.44	48.9	54	-5.1	100	176
5	12070PK	53.59	9.38	62.96	74	-11.04	100	139
5	12070AV	53.59	-2	51.59	54	-2.41	100	139

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2414PK	35.24	62	97.24	113.98	-16.74	100	221
*1	2414AV	35.24	33.76	68.99	93.98	-24.99	100	221
2	4828PK	41.22	16.27	57.48	74	-16.52	100	13
2	4828AV	41.22	-0.21	41.01	54	-12.99	100	13
3	7242PK	48.84	10.22	59.06	74	-14.94	100	0
3	7242AV	48.84	-1.43	47.41	54	-6.59	100	0
4	9656PK	52.33	7.66	59.99	74	-14.01	100	19
4	9656AV	52.33	-3.55	48.78	54	-5.22	100	19
5	12070PK	53.59	9.39	62.98	74	-11.02	100	77
5	12070AV	53.59	-1.9	51.68	54	-2.32	100	77

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 2	**FREQUENCY RANGE**	Above 1GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	4.5Vdc
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2432PK	35.26	54.3	89.56	113.98	-24.42	100	112
*1	2432AV	35.26	30.48	65.74	93.98	-28.24	100	112
2	4864PK	41.34	15.68	57.02	74	-16.98	100	32
2	4864AV	41.34	0.38	41.72	54	-12.28	100	32
3	7296PK	48.96	9.97	58.93	74	-15.07	100	78
3	7296AV	48.96	-0.85	48.11	54	-5.89	100	78
4	9728PK	52.42	6.28	58.7	74	-15.3	100	65
4	9728AV	52.42	-4.89	47.53	54	-6.47	100	65
5	12160PK	53.54	8.12	61.66	74	-12.34	100	169
5	12160AV	53.54	-2.15	51.39	54	-2.61	100	169

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2432PK	35.26	65.78	101.04	113.98	-12.94	100	134
*1	2432AV	35.26	37.48	72.74	93.98	-21.24	100	134
2	4864PK	41.34	19.67	61.01	74	-12.99	100	69
2	4864AV	41.34	2.18	43.52	54	-10.48	100	69
3	7296PK	48.96	10.14	59.1	74	-14.9	100	75
3	7296AV	48.96	-0.91	48.05	54	-5.95	100	75
4	9728PK	52.42	7.14	59.56	74	-14.44	100	13
4	9728AV	52.42	-4.68	47.74	54	-6.26	100	13
5	12160PK	53.54	9.48	63.02	74	-10.98	100	46
5	12160AV	53.54	-1.89	51.65	54	-2.35	100	46

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

EUT	2.4G wireless camera	**MODEL NO.**	BT502
CHANNEL	Channel 4	**FREQUENCY RANGE**	Above 1GHz
MODULATION TYPE	FM	**INPUT POWER (SYSTEM)**	4.5Vdc
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	**DETECTOR FUNCTION**	PK / AV: 1MHz
TESTED BY	SEAN		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2468PK	35.29	51.71	87	113.98	-26.98	100	223
*1	2468AV	35.29	29.79	65.09	93.98	-28.89	100	223
2	4936PK	41.59	12.06	53.65	74	-20.35	100	11
2	4936AV	41.59	-0.64	40.95	54	-13.05	100	11
3	7404PK	49.21	9.76	58.97	74	-15.03	100	0
3	7404AV	49.21	-1.83	47.38	54	-6.62	100	0
4	9872PK	52.48	8.55	61.02	74	-12.98	100	16
4	9872AV	52.48	-2.79	49.69	54	-4.31	100	16
5	12340PK	53.46	10.06	63.52	74	-10.48	100	94
5	**12340AV**	**53.46**	**-1.49**	**51.97**	**54**	**-2.03**	**100**	**94**

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2468PK	35.29	62.63	97.92	113.98	-16.06	100	19
*1	2468AV	35.29	34.5	69.79	93.98	-24.19	100	19
2	4936PK	41.59	14.38	55.98	74	-18.02	100	0
2	4936AV	41.59	0.36	41.95	54	-12.05	100	0
3	7404PK	49.21	9.13	58.34	74	-15.66	100	332
3	7404AV	49.21	-1.33	47.88	54	-6.12	100	332
4	9872PK	52.48	8.65	61.12	74	-12.88	100	6
4	9872AV	52.48	-2.79	49.69	54	-4.31	100	6
5	12340PK	53.46	10.06	63.52	74	-10.48	100	86
5	12340AV	53.46	-2.49	50.97	54	-3.03	100	86

NOTE: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "*" = Fundamental frequency
6. The other emission levels were very low against the limit.

4.3 BAND EDGES MEASUREMENT

4.3.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SIGNAL ANALYZER Rohde & Schwarz	FSP	E1S1002	May. 16. 2007

4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

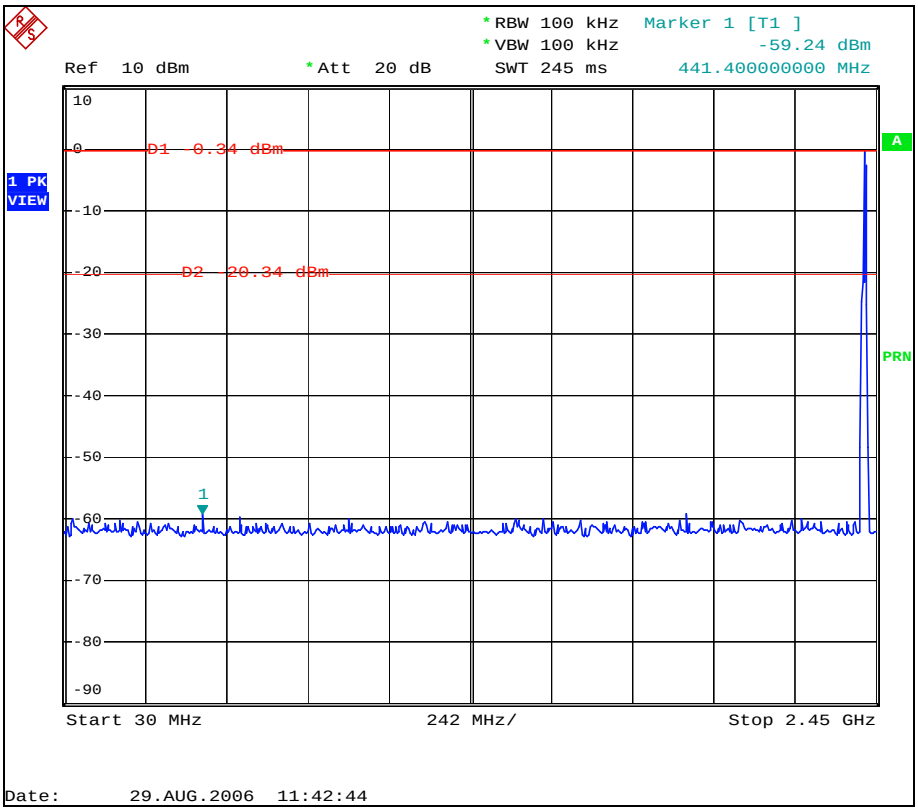
4.3.5 EUT OPERATING CONDITION

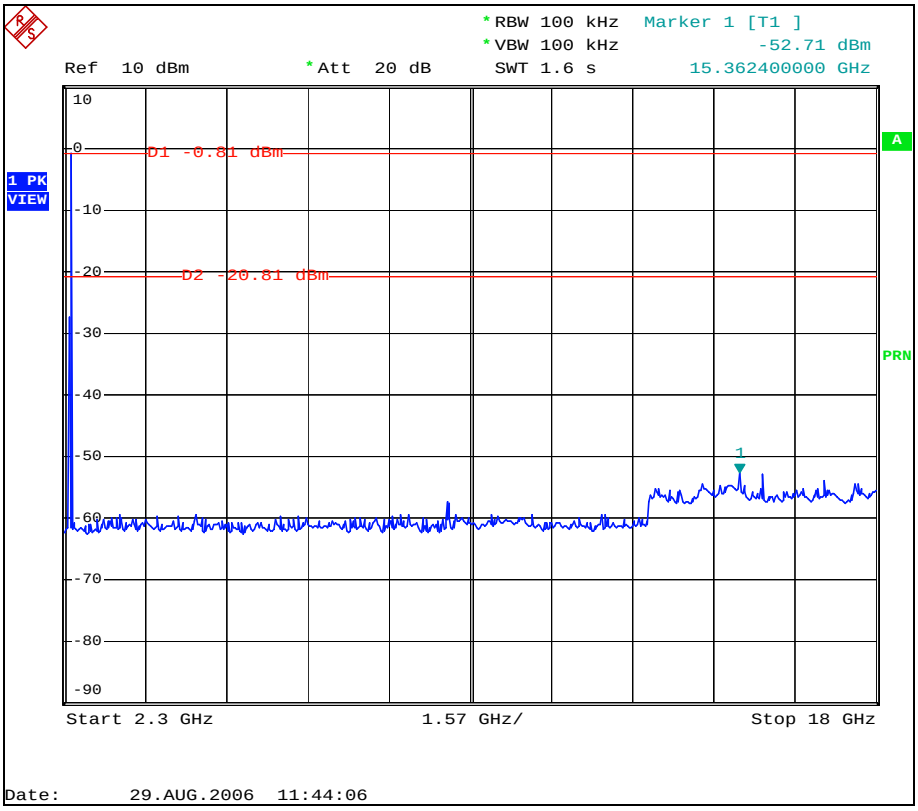
Enable the EUT to transmit data at lowest and highest channel frequencies individually.

4.3.6 TEST RESULTS

For Emissions outside of the specified frequency bands (Radiated), please refer to report section 4.2.7 which met the requirement of the general radiated emission limits in § 15.209.

For Emissions outside of the specified frequency bands (Conducted), the spectrum plots are attached on the following 2 plots. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.249.


*RBW 100 kHz
*VBW 100 kHz
SWT 245 ms
Marker 1 [T1]
-59.24 dBm
441.400000000 MHz
Ref 10 dBm
*Att 20 dB
D1 0.34 dBm
D2 -20.34 dBm
1 PK VIEW
A
PRN
Start 30 MHz
242 MHz/
Stop 2.45 GHz
Date: 29.AUG.2006 11:42:44


*RBW 100 kHz
*VBW 100 kHz
SWT 1.6 s
Marker 1 [T1]
-52.71 dBm
15.362400000 GHz
Ref 10 dBm
*Att 20 dB
D1 -0.81 dBm
D2 -20.81 dBm
1 PK VIEW
A
PRN
Start 2.3 GHz
1.57 GHz/
Stop 18 GHz
Date: 29.AUG.2006 11:44:06

5 APPENDIX - INFORMATION ON THE TESTING LABORATORY

We, ADT (Shanghai) Corp., were founded in 2003 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

JAPAN	VCCI
USA	FCC, A2LA
Norway	DNV

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.cnadt.com
If you have any comments, please feel free to contact us at the following:

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