

FCC TEST REPORT

REPORT NO.:	RF950213L03	
MODEL NO.:	400	
RECEIVED :	Feb. 15, 2006	
TESTED:	Feb. 16 ~ Feb. 20, 2006	
ISSUED:	Feb. 21, 2006	

APPLICANT: ELITEGROUP COMPUTER SYSTEMS CO., LTD.

- **ISSUED BY:** Advance Data Technology Corporation
- **LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang 244, Taipei Hsien, Taiwan, R.O.C.
- **TEST LOCATION:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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ADDRESS: 2F. No. 240, Sec. 1, Nei Hu Road, Taipei, Taiwan 114, R.O.C.



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1. CERTIFICATION

PRODUCT: Notebook
MODEL: 400
BRAND: ECS
APPLICANT: ELITEGROUP COMPUTER SYSTEMS CO., LTD.
TEST SAMPLE: ENGINEERING SAMPLE
TESTED: Feb. 16 ~ Feb. 20, 2006
STANDARDS: FCC Part 15, Subpart C (Section 15.247), ANSI C63.4-2003

The above equipment has been tested by **Advance Data Technology 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.

	Wendy Lias		
PREPARED BY :	0	, DATE:	Feb. 21, 2006
	Wendy Liao		
TECHNICAL ACCEPTANCE : Responsible for RF	Long Chen Long Chen	_ , DATE:	Feb. 21, 2006
APPROVED BY :	Gary Chang / Supervisor	_ , DATE:	Feb. 21, 2006



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.247)							
Standard Section	Test Type and Limit	Result	Remark				
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is –12.01dB at 0.213MHz				
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.				
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.				
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is –2.47dB at 2390.00MHz				
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.				
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	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	Frequency	Uncertainty	
Conducted emissions	9kHz~30MHz	2.44 dB	
	30MHz ~ 200MHz	3.55 dB	
Dedicted emissions	200MHz ~1000MHz	3.58 dB	
Radiated emissions	1GHz ~ 18GHz	1.10 dB	
	18GHz ~ 40GHz	0.91 dB	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Notebook
400
SA64000ABGX
19.0Vdc from AC Adapters
CCK, DQPSK,DBPSK for DSSS
64QAM, 16QAM, QPSK, BPSK for OFDM
DSSS, OFDM
802.11b:11/5.5/2/1Mbps
802.11g: 54/48/36/24/18/12/9/6Mbps
2.412 ~ 2.462GHz
11
5MHz
40.926mW
PIFA antenna with -1.54486dBi gain for left antenna
PIFA antenna with -1.09449dBi gain for right antenna
NA
Refer to user's manual
NA



NOTE:

1. The EUT is powered by the following adapters.

	5 1
BRAND:	LI SHIN INTERNATIONAL ENTERPRISE CORP.
MODEL:	0335A1965
INPUT:	100-240Vac, 50-60Hz, 1.7A
OUTPUT:	19Vdc, 3.42A
POWER LINE:	AC 1.8m non-shielded cable without core
POWER LINE:	DC 1.6m non-shielded cable with one core

BRAND:	LITE-ON TECHNOLOGY CORPORATION
MODEL:	PA-1650-02
INPUT:	100-240Vac, 50-60Hz, 1.6A
OUTPUT:	19Vdc, 3.42A
POWER LINE:	AC 1.8m non-shielded cable without core DC 1.6m non-shielded cable with one core

- 2. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.
- 3. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
- 4. 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.

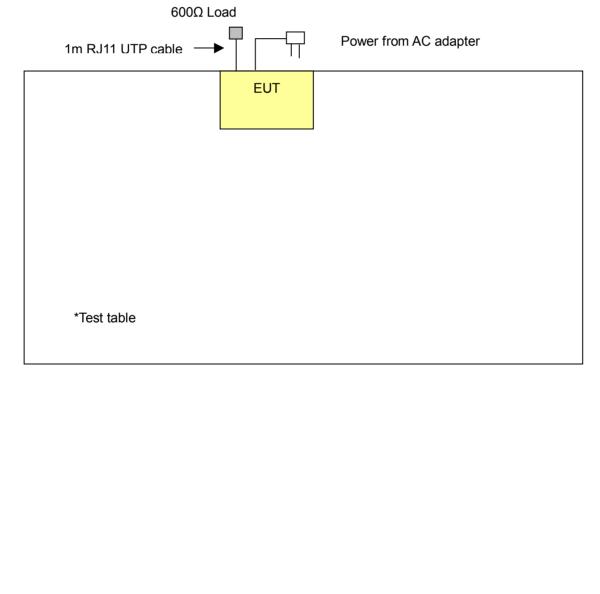


3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT for normal mode.

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT configure		Applic	able to		Description	
mode	PLC	RE<1G	RE≥1G	APCM	Description	
А	\checkmark	\checkmark	\checkmark	\checkmark	For adapter: 0335A1965	
В		\checkmark	-	-	For adapter: PA-1650-02	

Where PLC: Power Line Conducted Emission RE≥1G: Radiated Emission above 1GHz NOTE: "-" means no effect. RE<1G RE: Radiated Emission below 1GHz APCM: Antenna Port Conducted Measurement

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

EUT CONFIGURE MODE	Mode	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
А	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
В	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

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

Radiated Emission Test (Below 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
А	802.11g	1 to 11	11	OFDM	BPSK	6
В	802.11g	1 to 11	11	OFDM	BPSK	6



Radiated Emission Test (Above 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
А	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
А	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

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

Bandedge Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 11	OFDM	BPSK	6

Antenna Port Conducted Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247) ANSI C63.4-2003

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

NA



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)			
	Quasi-peak	Average		
0.15-0.5 0.5-5 5-30	66 to 56 56 60	56 to 46 46 50		

NOTE: 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.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 11, 2006
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2007
LISN SCHWARZBECK	NNBL 8226-2	8226-142	May 02, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 07, 2007
Software ADT	ADT_Cond_V3	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are

traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.



4.1.3 TEST PROCEDURES

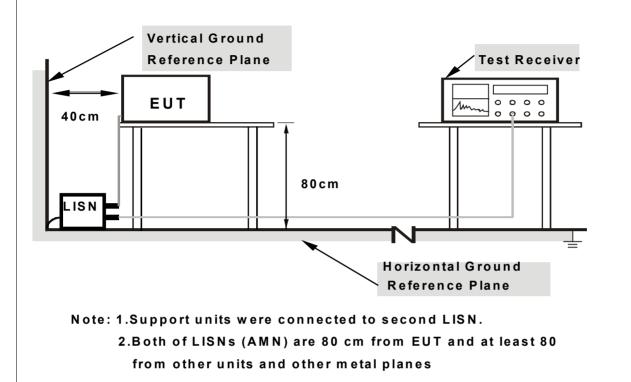
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation



4.1.5 TEST SETUP



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

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on a testing table.
- b. The EUT ran a test program (provided by manufacturer) to enable all functions under transmission condition continuously at specific channel frequency.
- c. The EUT sent "H" messages to monitor.



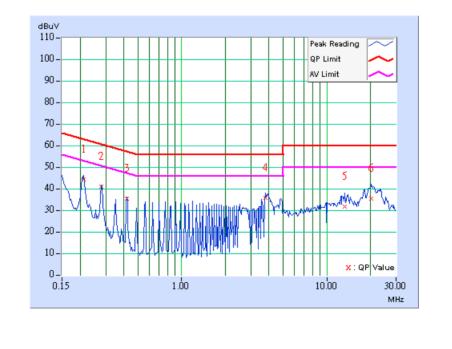
4.1.7 TEST RESULTS

Conducted Worst-Case Data

EUT TEST CONDITION	N	MEASUREMENT DETAIL		
CHANNEL	Channel 1	PHASE	Line 1	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	А	
TESTED BY	Lori Chiu			

	Freq. Corr. Reading Value		g Value	Emission Level		Limit		Margin		
No		Factor	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.213	0.10	43.13	-	43.23	-	63.11	53.11	-19.88	-
2	0.279	0.10	40.01	-	40.11	-	60.85	50.85	-20.74	-
3	0.420	0.10	34.50	-	34.60	-	57.46	47.46	-22.85	-
4	3.781	0.44	34.77	-	35.21	-	56.00	46.00	-20.79	-
5	13.246	0.67	30.68	-	31.35	-	60.00	50.00	-28.65	-
6	20.352	1.15	34.35	-	35.50	-	60.00	50.00	-24.50	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

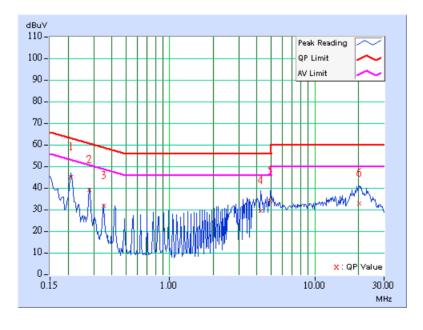




EUT TEST CONDITION	N	MEASUREMENT DETAIL		
CHANNEL	Channel 1	PHASE	Line 2	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	А	
TESTED BY	Lori Chiu			

	Freq. Corr. Reading Value			mission Level		Limit		Margin		
No		Factor	[dB	(uV)]	[dB((uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	44.43	-	44.53	-	63.26	53.26	-18.73	-
2	0.279	0.10	38.26	-	38.36	-	60.85	50.85	-22.49	-
3	0.349	0.10	31.16	-	31.26	-	58.98	48.98	-27.72	-
4	4.266	0.47	28.92	-	29.39	-	56.00	46.00	-26.61	-
5	4.965	0.47	33.35	-	33.82	-	56.00	46.00	-22.18	-
6	20.301	0.84	32.08	-	32.92	-	60.00	50.00	-27.08	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

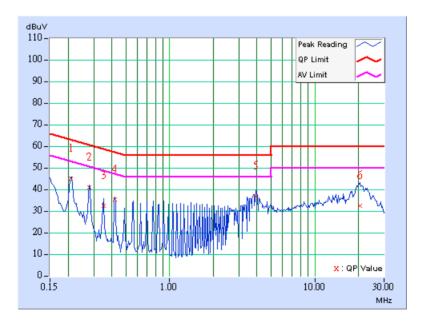




EUT TEST CONDITION	N	MEASUREMENT DETAIL		
CHANNEL	Channel 6	PHASE	Line 1	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	A	
TESTED BY	Lori Chiu			

	Freq.	Corr.	Corr. Reading Value		Emis Lev		Limit		Margin	
No		Factor	[dB	(uV)]	[dB((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	44.05	-	44.15	-	63.26	53.26	-19.11	-
2	0.279	0.10	39.87	-	39.97	-	60.85	50.85	-20.88	-
3	0.351	0.10	31.59	-	31.69	-	58.95	48.95	-27.26	-
4	0.420	0.10	34.31	-	34.41	-	57.46	47.46	-23.04	-
5	3.913	0.46	35.93	-	36.39	-	56.00	46.00	-19.61	-
6	20.543	1.16	31.27	-	32.43	-	60.00	50.00	-27.57	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

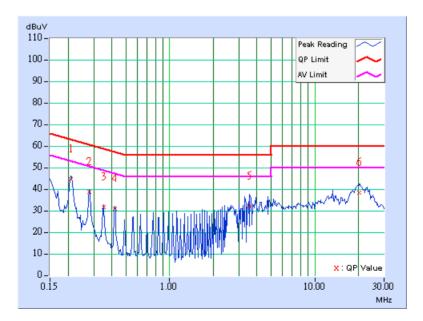




EUT TEST CONDITIO	N	MEASUREMENT DETAIL			
CHANNEL	Channel 6	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	А		
TESTED BY	Lori Chiu				

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB ((uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	43.95	-	44.05	-	63.26	53.26	-19.21	-
2	0.279	0.10	38.20	-	38.30	-	60.85	50.85	-22.55	-
3	0.349	0.10	31.20	-	31.30	-	58.98	48.98	-27.68	-
4	0.420	0.10	30.31	-	30.41	-	57.46	47.46	-27.04	-
5	3.570	0.41	31.52	-	31.93	-	56.00	46.00	-24.07	-
6	20.258	0.84	37.66	-	38.50	-	60.00	50.00	-21.50	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

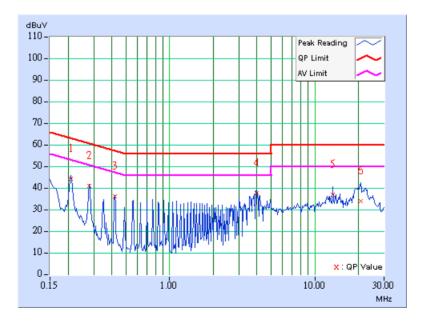




EUT TEST CONDITIO	N	MEASUREMENT DETAIL			
CHANNEL	Channel 11	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	А		
TESTED BY	Lori Chiu				

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB ((uV)]	[dB	(uV)]	uV)] (dE	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	43.13	-	43.23	-	63.26	53.26	-20.03	-
2	0.279	0.10	40.05	-	40.15	-	60.85	50.85	-20.70	-
3	0.420	0.10	35.12	-	35.22	-	57.46	47.46	-22.23	-
4	3.987	0.47	36.57	-	37.04	-	56.00	46.00	-18.96	-
5	13.238	0.67	35.93	-	36.60	-	60.00	50.00	-23.40	-
6	20.664	1.17	32.82	-	33.99	-	60.00	50.00	-26.01	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

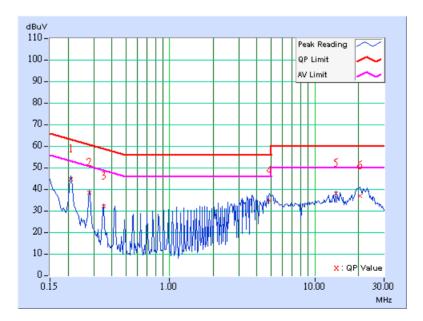




EUT TEST CONDITIO	N	MEASUREMENT DETAIL			
CHANNEL	Channel 11	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	А		
TESTED BY	Lori Chiu				

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB ((uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	43.91	-	44.01	-	63.26	53.26	-19.25	-
2	0.279	0.10	37.83	-	37.93	-	60.85	50.85	-22.92	-
3	0.349	0.10	31.26	-	31.36	-	58.98	48.98	-27.62	-
4	4.895	0.47	33.92	-	34.39	-	56.00	46.00	-21.61	-
5	14.068	0.60	37.46	-	38.06	-	60.00	50.00	-21.94	-
6	20.504	0.84	36.07	-	36.91	-	60.00	50.00	-23.09	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

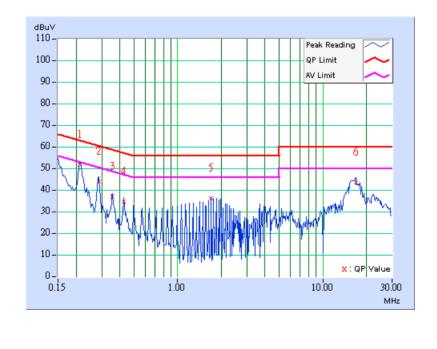




EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 1	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	В		
TESTED BY	Lori Chiu				

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB ((uV)]	[dB	(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.213	0.10	51.00	-	51.10	-	63.11	53.11	-12.01	-
2	0.287	0.10	43.13	-	43.23	-	60.62	50.62	-17.39	-
3	0.357	0.10	36.23	-	36.33	-	58.80	48.80	-22.47	-
4	0.427	0.10	33.84	-	33.94	-	57.30	47.30	-23.36	-
5	1.703	0.20	35.41	-	35.61	-	56.00	46.00	-20.39	-
6	16.898	0.88	42.97	-	43.85	-	60.00	50.00	-16.15	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

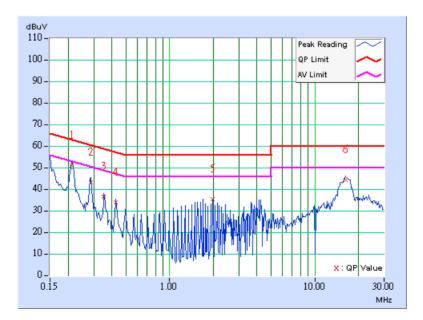




EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 1	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	В		
TESTED BY	Lori Chiu				

	Freq.	Corr.	Reading Value			Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB ((uV)]	[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.213	0.10	50.28	-	50.38	-	63.11	53.11	-12.73	-	
2	0.287	0.10	42.67	-	42.77	-	60.62	50.62	-17.85	-	
3	0.353	0.10	35.89	-	35.99	-	58.89	48.89	-22.90	-	
4	0.427	0.10	33.50	-	33.60	-	57.30	47.30	-23.70	-	
5	1.988	0.20	34.73	-	34.93	-	56.00	46.00	-21.07	-	
6	16.398	0.69	43.62	-	44.31	-	60.00	50.00	-15.69	-	

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

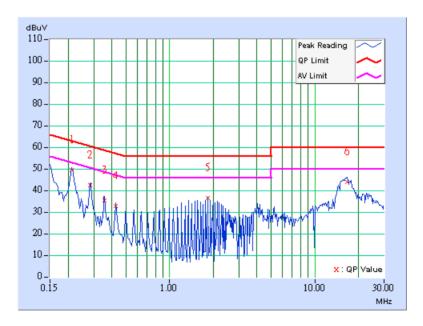




EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 6	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	В		
TESTED BY	Lori Chiu				

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB((uV)]	[dB	(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.213	0.10	48.63	-	48.73	-	63.11	53.11	-14.38	-
2	0.283	0.10	41.88	-	41.98	-	60.73	50.73	-18.75	-
3	0.357	0.10	34.51	-	34.61	-	58.80	48.80	-24.19	-
4	0.427	0.10	32.05	-	32.15	-	57.30	47.30	-25.15	-
5	1.844	0.20	35.80	-	36.00	-	56.00	46.00	-20.00	-
6	16.816	0.88	43.17	-	44.05	-	60.00	50.00	-15.95	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

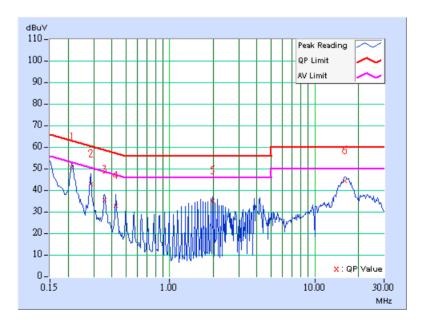




EUT TEST CONDITIO	N	MEASUREMENT DETAIL		
CHANNEL	Channel 6	PHASE	Line 2	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	В	
TESTED BY	Lori Chiu			

	Freq.	Corr.	Readin	g Value	Emission Level		Limit		t Margin	
No		Factor	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.213	0.10	49.96	-	50.06	-	63.11	53.11	-13.05	-
2	0.287	0.10	42.17	-	42.27	-	60.62	50.62	-18.35	-
3	0.357	0.10	34.77	-	34.87	-	58.80	48.80	-23.93	-
4	0.423	0.10	32.15	-	32.25	-	57.38	47.38	-25.13	-
5	1.988	0.20	34.51	-	34.71	-	56.00	46.00	-21.29	-
6	16.109	0.67	43.62	-	44.29	-	60.00	50.00	-15.71	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

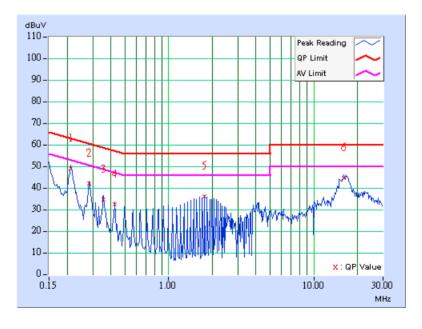




EUT TEST CONDITION	N	MEASUREMENT DETAIL		
CHANNEL	NNEL Channel 11		Line 1	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	В	
TESTED BY	Lori Chiu			

	Freq.	Corr.	Readin	g Value	Emis Lev	sion vel	Liı	nit	Mar	gin
No		Factor	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.213	0.10	48.30	-	48.40	-	63.11	53.11	-14.71	-
2	0.283	0.10	41.46	-	41.56	-	60.73	50.73	-19.17	-
3	0.357	0.10	34.05	-	34.15	-	58.80	48.80	-24.65	-
4	0.427	0.10	31.63	-	31.73	-	57.30	47.30	-25.57	-
5	1.773	0.20	35.43	-	35.63	-	56.00	46.00	-20.37	-
6	16.102	0.82	43.82	-	44.64	-	60.00	50.00	-15.36	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

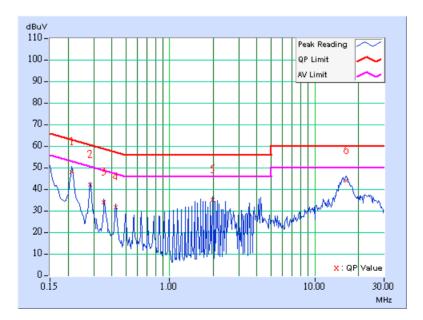




EUT TEST CONDITIO	N	MEASUREMENT DETAIL		
CHANNEL	Channel 11	PHASE	Line 2	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	20deg. C, 65%RH, 991hPa	TEST MODE	В	
TESTED BY	Lori Chiu			

	Freq.	Corr.	Readin	g Value	Emission Level				Limit		Mar	gin
No		Factor	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.213	0.10	47.57	-	47.67	-	63.11	53.11	-15.44	-		
2	0.283	0.10	41.38	-	41.48	-	60.73	50.73	-19.25	-		
3	0.353	0.10	33.25	-	33.35	-	58.89	48.89	-25.54	-		
4	0.427	0.10	31.29	-	31.39	-	57.30	47.30	-25.91	-		
5	1.984	0.20	34.67	-	34.87	-	56.00	46.00	-21.13	-		
6	16.523	0.69	43.39	-	44.08	-	60.00	50.00	-15.92	-		

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 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	ESI7	100033	May. 19, 2006
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Dec. 05, 2006
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Jun. 01, 2006
HORN Antenna SCHWARZBECK	9120D	9120D-408	Jan. 08, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Jan. 19, 2007
Preamplifier Agilent	8447D	2944A10633	Nov. 04, 2006
Preamplifier Agilent	8449B	3008A01964	Oct. 30, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	214377/4	Dec. 13, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219272/4	Dec. 13, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Chamber 2.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The VCCI Site Registration No. is R-237.
- 5. The IC Site Registration No. is IC4924-3.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters 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 lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

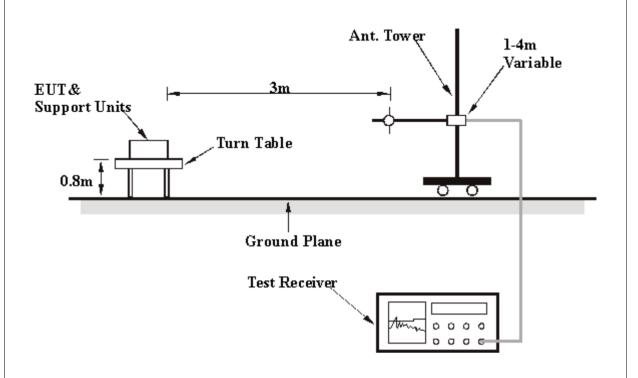
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above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

EUT TEST CONDITION		MEASUREMENT DE	TAIL
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TEST MODE	A
TESTED BY	Jay Hsu		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	234.11	31.58 QP	46.00	-14.42	1.00 H	73	19.38	12.19
2	321.58	34.31 QP	46.00	-11.69	1.00 H	79	18.08	16.23
3	432.38	27.08 QP	46.00	-18.92	1.00 H	142	8.21	18.87
4	634.55	33.06 QP	46.00	-12.94	1.00 H	157	9.63	23.43
5	720.08	36.79 QP	46.00	-9.21	1.00 H	142	11.69	25.10
6	817.27	33.53 QP	46.00	-12.47	1.00 H	67	6.70	26.83

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction
No.	(MHz)	Level	(dBuV/m)	0	Height	Angle	Value	Factor
	(10172)	(dBuV/m)	(ubuv/iii)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)
1	103.87	29.34 QP	43.50	-14.16	1.00 V	112	19.65	9.69
2	160.24	30.96 QP	43.50	-12.54	1.00 V	244	17.17	13.79
3	331.30	34.39 QP	46.00	-11.61	1.50 V	16	18.01	16.38
4	545.13	33.90 QP	46.00	-12.10	1.00 V	328	12.62	21.27
5	720.08	34.14 QP	46.00	-11.86	1.00 V	172	9.04	25.10
6	799.78	36.20 QP	46.00	-9.80	1.00 V	301	9.53	26.67

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m) **REMARKS**:

Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 The other emission levels were very low against the limit.
 Margin value = Emission level – Limit value.



EUT TEST CONDITION		MEASUREMENT DE	TAIL
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TEST MODE	В
TESTED BY	Jay Hsu		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	160.24	33.39 QP	43.50	-10.11	1.00 H	160	19.60	13.79		
2	247.72	31.37 QP	46.00	-14.63	1.00 H	217	18.77	12.60		
3	331.30	36.10 QP	46.00	-9.90	1.50 H	334	19.71	16.38		
4	634.55	32.44 QP	46.00	-13.56	1.00 H	145	9.02	23.43		
5	702.59	36.65 QP	46.00	-9.35	1.00 H	187	12.25	24.40		
6	799.78	34.45 QP	46.00	-11.55	1.00 H	238	7.78	26.67		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.	(MHz)	Level	(dBuV/m)	-	Height	Angle	Value	Factor		
	(IVIFIZ)	(dBuV/m)	(ubuv/iii)	//m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	160.24	33.11 QP	43.50	-10.39	1.00 V	148	19.32	13.79		
2	323.53	35.10 QP	46.00	-10.90	1.00 V	178	18.84	16.26		
3	327.41	35.84 QP	46.00	-10.16	1.50 V	79	19.52	16.32		
4	702.59	35.43 QP	46.00	-10.57	1.50 V	25	11.03	24.40		
5	799.78	35.94 QP	46.00	-10.06	1.50 V	343	9.27	26.67		
6	908.64	35.24 QP	46.00	-10.76	1.50 V	79	7.53	27.71		

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

The other emission levels were very low against the limit.
 Margin value = Emission level – Limit value.



802.11b DSSS modulation

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz	
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)	
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A	
TESTED BY	Jay Hsu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	2386.00	58.24 PK	74.00	-15.76	1.22 H	194	26.35	31.89		
1	2386.00	49.27 AV	54.00	-4.73	1.22 H	194	17.38	31.89		
2	*2412.00	105.81 PK			1.00 H	194	73.77	32.04		
2	*2412.00	102.35 AV			1.00 H	194	70.31	32.04		
3	4824.00	50.27 PK	74.00	-23.73	1.01 H	169	12.76	37.51		
3	4824.00	44.08 AV	54.00	-9.92	1.01 H	169	6.57	37.51		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor		
	(IMF1Z)	(dBuV/m)	(ubuv/iii)	JV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	2386.00	57.78 PK	74.00	-16.22	1.13 V	73	25.89	31.89		
1	2386.00	49.06 AV	54.00	-4.94	1.13 V	73	17.17	31.89		
2	*2412.00	106.50 PK			1.14 V	73	74.46	32.04		
2	*2412.00	102.80 AV			1.14 V	73	70.76	32.04		
3	4824.00	50.34 PK	74.00	-23.66	1.11 V	121	12.83	37.51		
3	4824.00	44.82 AV	54.00	-9.18	1.11 V	121	7.31	37.51		

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. The limit value is defined as per 15.247 6. " * " : Fundamental frequency



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz	
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)	
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A	
TESTED BY	Jay Hsu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	*2437.00	105.71 PK			1.00 H	195	73.51	32.20		
1	*2437.00	102.11 AV			1.00 H	195	69.91	32.20		
2	4874.00	53.89 PK	74.00	-20.11	1.04 H	186	16.34	37.55		
2	4874.00	49.92 AV	54.00	-4.08	1.04 H	186	12.37	37.55		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	*2437.00	106.12 PK			1.02 V	106	73.92	32.20		
1	*2437.00	102.34 AV			1.02 V	106	70.14	32.20		
2	4874.00	54.09 PK	74.00	-19.91	1.10 V	140	16.54	37.55		
2	4874.00	49.74 AV	54.00	-4.26	1.10 V	140	12.19	37.55		

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. The limit value is defined as per 15.247

6. " * " : Fundamental frequency



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz	
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)	
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A	
TESTED BY	Jay Hsu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	*2462.00	105.05 PK			1.00 H	198	72.70	32.35		
1	*2462.00	101.63 AV			1.00 H	198	69.28	32.35		
2	2483.50	58.43 PK	74.00	-15.57	1.16 H	197	25.94	32.49		
2	2483.50	48.70 AV	54.00	-5.30	1.16 H	197	16.21	32.49		
3	4924.00	52.68 PK	74.00	-21.32	1.01 H	177	15.10	37.58		
3	4924.00	46.83 AV	54.00	-7.17	1.01 H	177	9.25	37.58		

	A	NTENNA POL	ARITY & T	EST DIST	ANCE: VE		AT 3 M	
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1066.00	47.81 PK	74.00	-26.19	1.00 V	166	20.55	27.26
1	1066.00	40.15 AV	54.00	-13.85	1.00 V	166	12.89	27.26
2	*2462.00	106.08 PK			1.18 V	126	73.73	32.35
2	*2462.00	102.44 AV			1.18 V	126	70.09	32.35
3	2483.50	57.05 PK	74.00	-16.95	1.00 V	115	24.56	32.49
3	2483.50	49.37 AV	54.00	-4.63	1.00 V	115	16.88	32.49
4	4924.00	54.02 PK	74.00	-19.98	1.10 V	140	16.44	37.58
4	4924.00	50.83 AV	54.00	-3.17	1.10 V	140	13.25	37.58

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. The limit value is defined as per 15.247

6. " * " : Fundamental frequency



802.11g OFDM modulation

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz	
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)	
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A	
TESTED BY	Jay Hsu			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Correction Factor			
		(dBuV/m)			(m)	(Degree)	(dBuV)	(dB/m)			
1	2390.00	65.70 PK	74.00	-8.30	1.24 H	196	33.79	31.91			
1	2390.00	51.37 AV	54.00	-2.63	1.24 H	196	19.46	31.91			
2	*2412.00	105.18 PK			1.00 H	196	73.14	32.04			
2	*2412.00	95.80 AV			1.00 H	196	63.76	32.04			
3	4824.00	47.10 PK	74.00	-26.90	1.02 H	162	9.59	37.51			
3	4824.00	34.00 AV	54.00	-20.00	1.02 H	162	-3.51	37.51			

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission	Limit (dBuV/m)	Margin (dB)	Antenna	Table	Raw	Correction			
		Level			Height	Angle	Value	Factor			
		(dBuV/m)			(m)	(Degree)	(dBuV)	(dB/m)			
1	2390.00	64.08 PK	74.00	-9.92	1.06 V	99	32.17	31.91			
1	2390.00	51.53 AV	54.00	-2.47	1.06 V	99	19.62	31.91			
2	*2412.00	105.30 PK			1.08 V	96	73.26	32.04			
2	*2412.00	96.35 AV			1.08 V	96	64.31	32.04			
3	4824.00	45.94 PK	74.00	-28.06	1.10 V	120	8.43	37.51			
3	4824.00	33.82 AV	54.00	-20.18	1.10 V	120	-3.69	37.51			
REM	REMARKS : 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)										

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

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

5. The limit value is defined as per 15.247

6. " * " : Fundamental frequency



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz	
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)	
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A	
TESTED BY	Jay Hsu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	*2437.00	104.82 PK			1.00 H	(Degree) 192	(dBdV) 72.62	32.20	
1	*2437.00	94.86 AV			1.00 H	192	62.66	32.20	
2	4874.00 4874.00	48.40 PK 36.00 AV	74.00 54.00	-25.60 -18.00	1.00 H 1.00 H	187 187	10.85 -1.55	37.55 37.55	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Correction Factor	
1	*2437.00	(dBuV/m) 105.17 PK	(4247) (4		(m) 1.07 V	(Degree) 91	(dBuV) 72.97	(dB/m) 32.20	
1	*2437.00	95.69 AV			1.07 V	91	63.49	32.20	
2	4874.00	46.88 PK	74.00	-27.12	1.10 V	110	9.33	37.55	
2	4874.00	35.20 AV	54.00	-18.80	1.10 V	110	-2.35	37.55	
REM	REMARKS : 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)								

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. The limit value is defined as per 15.247

6. "*": Fundamental frequency



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz	
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)	
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A	
TESTED BY	Jay Hsu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	*2462.00	104.97 PK			1.00 H	196	72.62	32.35	
1	*2462.00	95.33 AV			1.00 H	196	62.98	32.35	
2	2483.50	65.79 PK	74.00	-8.21	1.14 H	194	33.30	32.49	
2	2483.50	50.24 AV	54.00	-3.76	1.14 H	194	17.75	32.49	
3	4924.00	46.74 PK	74.00	-27.26	1.00 H	231	9.16	37.58	
3	4924.00	34.64 AV	54.00	-19.36	1.00 H	231	-2.94	37.58	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq.	Emission	Limit	Margin	Antenna	Table	Raw Value	Correction Factor	
INO.	(MHz)	Level (dBuV/m)	(dBuV/m)	Ű	Height (m)	Angle (Degree)	(dBuV)	(dB/m)	
1	*2462.00	105.03 PK			1.04 V	100	72.68	32.35	
1	*2462.00	96.23 AV			1.04 V	100	63.88	32.35	
2	2483.50	64.85 PK	74.00	-9.15	1.05 V	99	32.36	32.49	
2	2483.50	50.02 AV	54.00	-3.98	1.05 V	99	17.53	32.49	
3	4924.00	47.28 PK	74.00	-26.72	1.05 V	121	9.70	37.58	
3	4924.00	35.45 AV	54.00	-18.55	1.05 V	121	-2.13	37.58	

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

The other emission levels were very low against the limit.
 Margin value = Emission level – Limit value.

5. The limit value is defined as per 15.247

6. " * " : Fundamental frequency



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK 30	100049	Aug. 14, 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



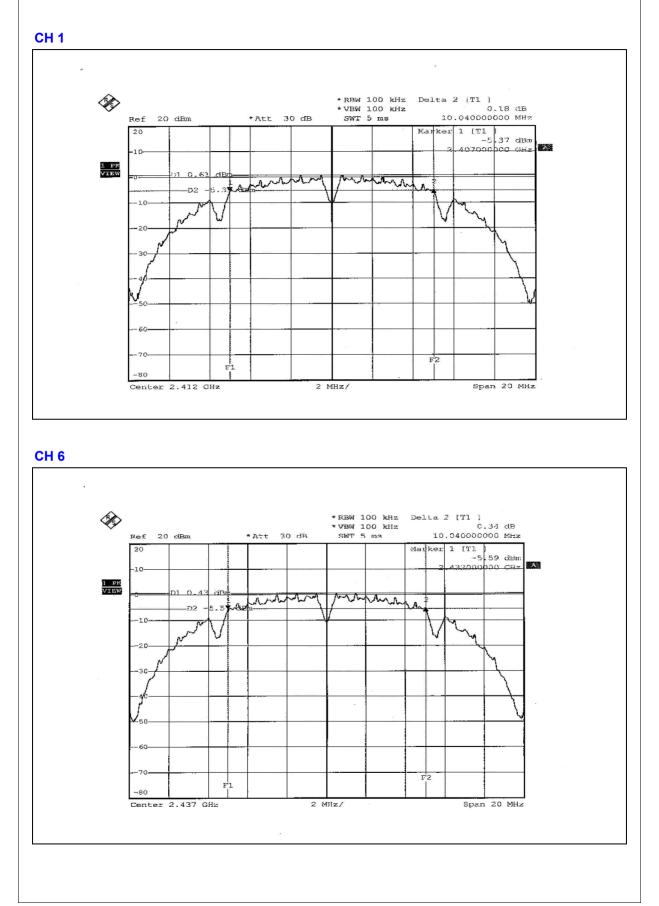
4.3.7 TEST RESULTS

802.11b DSSS modulation

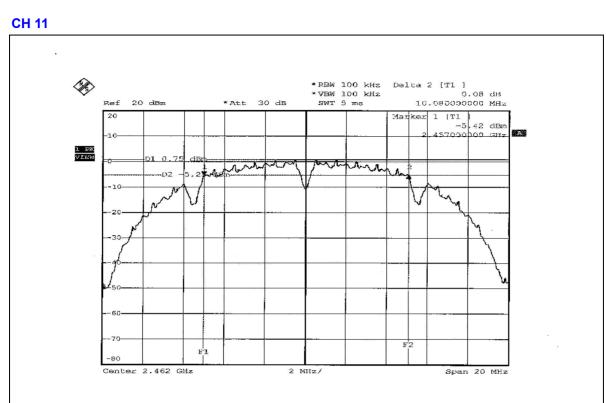
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 66%RH, 991hPa
TESTED BY	Morgan Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.04	0.5	PASS
6	2437	10.04	0.5	PASS
11	2462	10.08	0.5	PASS











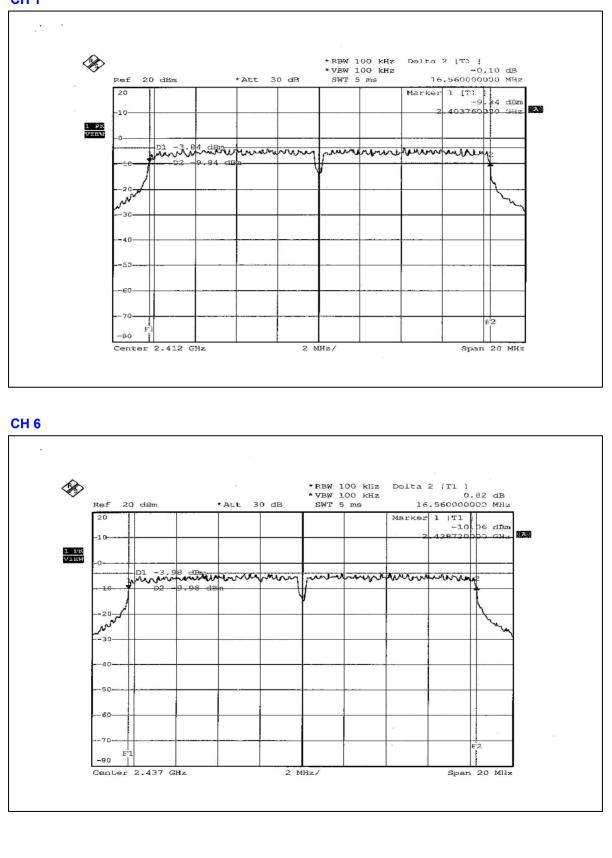
802.11g OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz		26deg.C, 66%RH, 991hPa
TESTED BY	Morgan Chen		

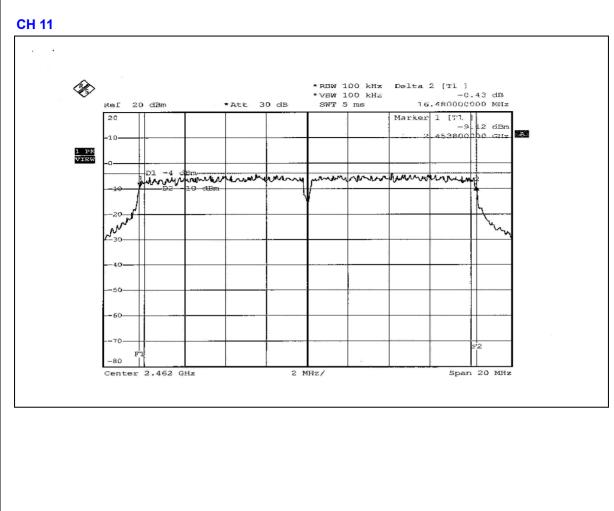
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.56	0.5	PASS
6	2437	16.56	0.5	PASS
11	2462	16.48	0.5	PASS













4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2006
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 28, 2006
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



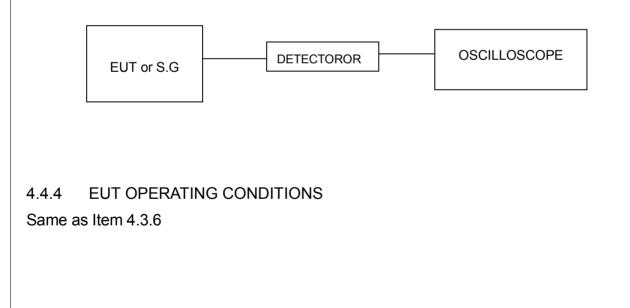
4.4.1 TEST PROCEDURES

- 1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
- 2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- 3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.4.2 DEVIATION FROM TEST STANDARD

No deviation

4.4.3 TEST SETUP





4.4.3 TEST RESULTS

802.11b DSSS modulation

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 66%RH, 991hPa
TESTED BY	Morgan Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	39.902	16.01	30	PASS
6	2437	40.926	16.12	30	PASS
11	2462	40.926	16.12	30	PASS

802.11g OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 66%RH, 991hPa
TESTED BY	Morgan Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	31.989	15.05	30	PASS
6	2437	31.769	15.02	30	PASS
11	2462	32.063	15.06	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

NOTE:

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



4.5.7 TEST RESULTS

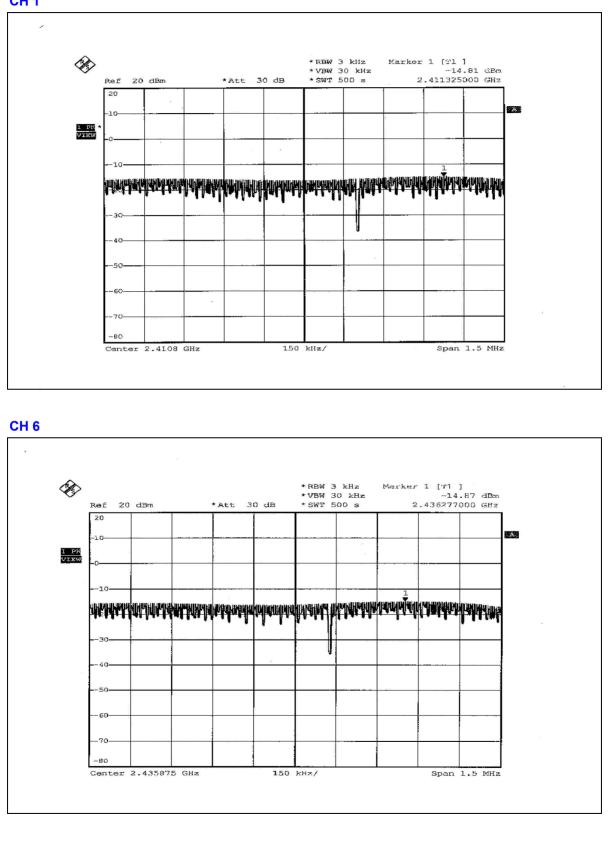
802.11b DSSS modulation

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz		26deg.C, 66%RH, 991hPa
TESTED BY	Morgan Chen		

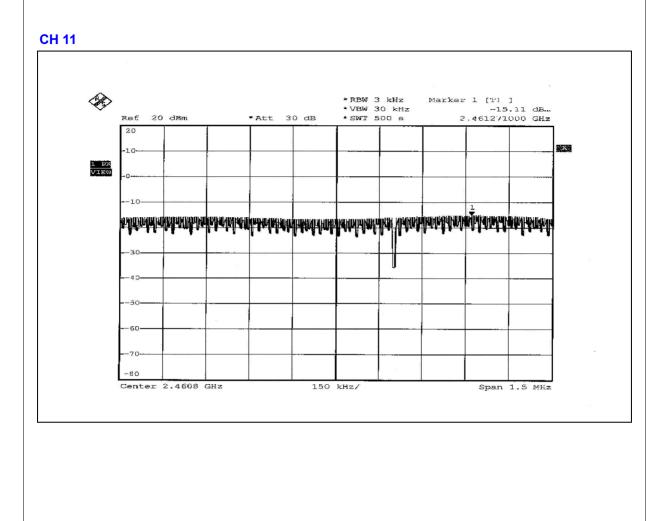
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.81	8	PASS
6	2437	-14.87	8	PASS
11	2462	-15.11	8	PASS













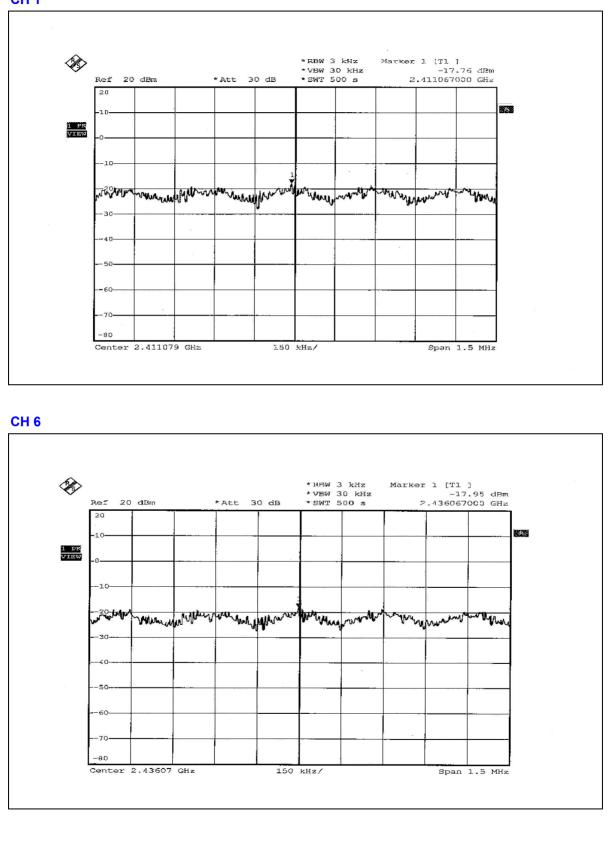
802.11g OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 66%RH, 991hPa
TESTED BY	Morgan Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-17.76	8	PASS
6	2437	-17.95	8	PASS
11	2462	-17.81	8	PASS

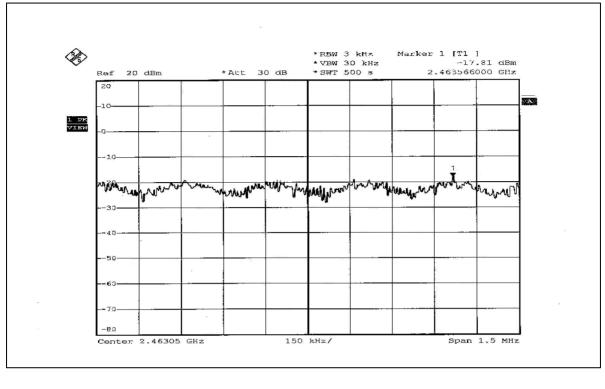














4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 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 100kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz; Average RBW=1MHz, VBW=1kHz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6



4.6.6 TEST RESULTS

The spectrum plots are attached on the following 12 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

802.11b DSSS MODULATION

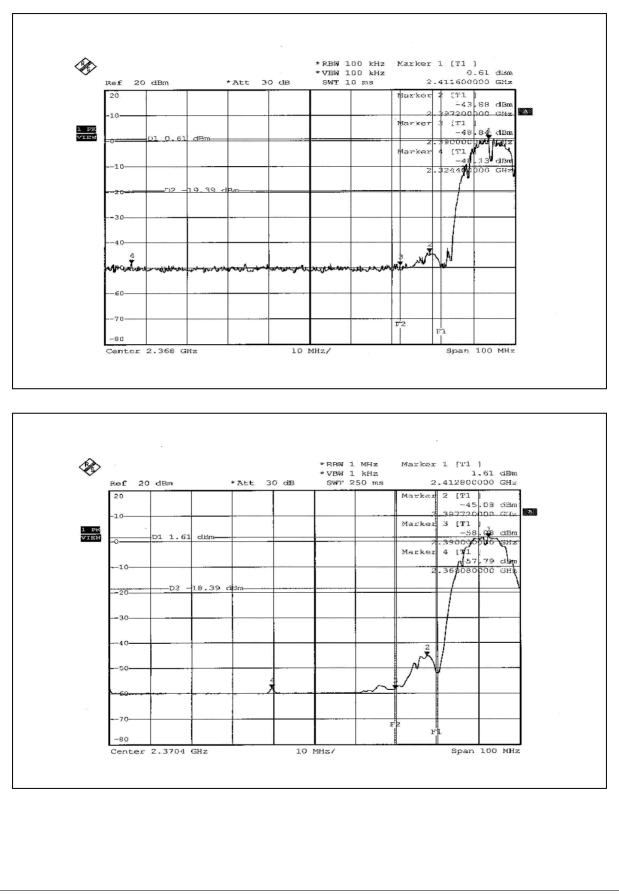
NOTE 1: The band edge emission plot of DSSS technique on the next page shows 48.74dBc between carrier maximum power and local maximum emission in restrict band (2.32440GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.50dBuV/m (Peak), so the maximum field strength in restrict band is 106.50 - 48.74 = 57.76dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of DSSS technique on the next page shows 59.40dBc between carrier maximum power and local maximum emission in restrict band (2.36008GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.80dBuV/m (Average), so the maximum field strength in restrict band is 102.80 - 59.40 = 43.40dBuV/m which is under 54dBuV/m limit.

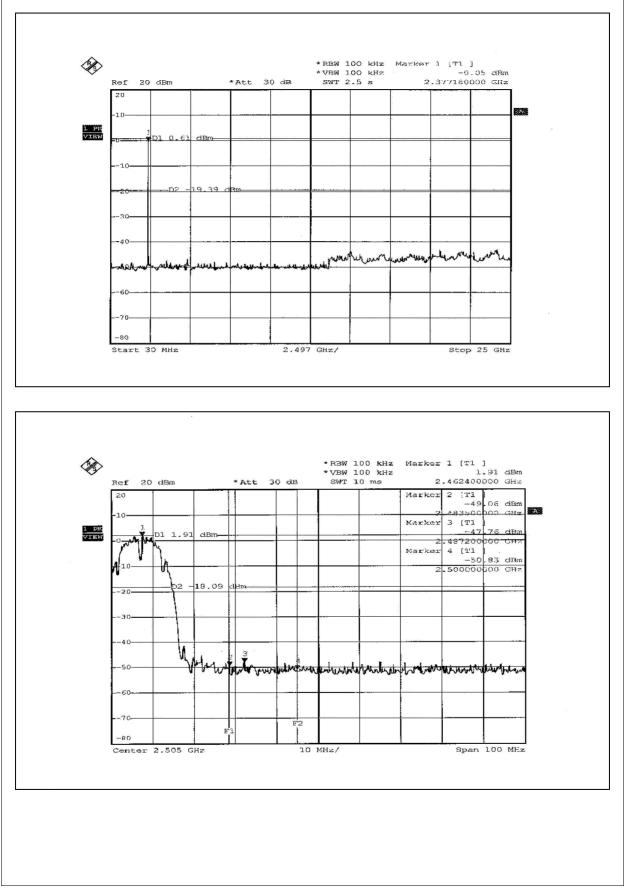
NOTE 2: The band edge emission plot of DSSS technique on the next second page shows 49.67dBc between carrier maximum power and local maximum emission in restrict band (2.48720GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.08dBuV/m (Peak), so the maximum field strength in restrict band is 106.08 – 49.67 = 56.41dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of DSSS technique on the next third page shows 56.93dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 102.44dBuV/m (Average), so the maximum field strength in restrict band is 102.44 - 56.93 = 45.51dBuV/m which is under 54dBuV/m limit.

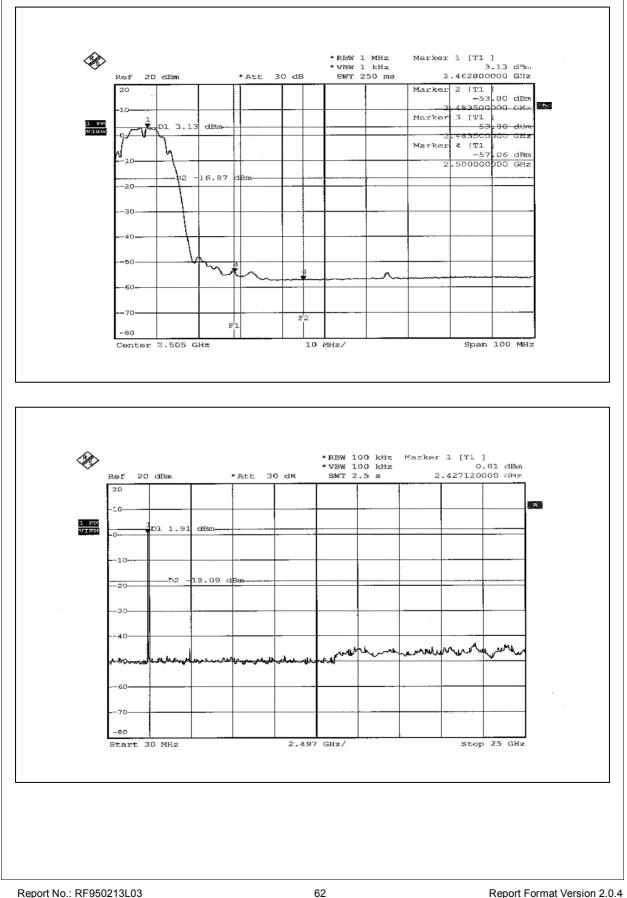














802.11g OFDM MODULATION

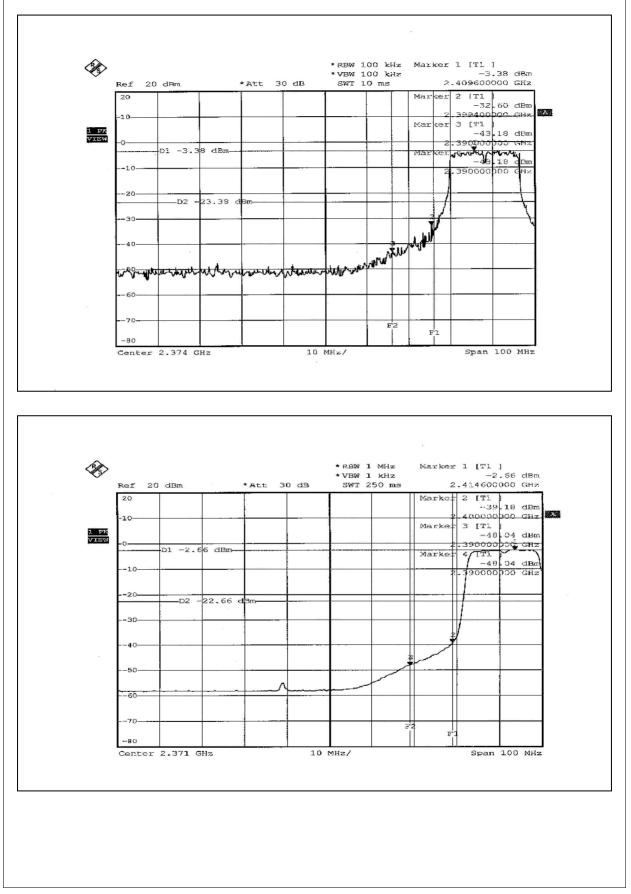
NOTE 1: The band edge emission plot of OFDM technique on the next page shows 39.80dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.30dBuV/m (Peak), so the maximum field strength in restrict band is 105.30 – 39.80 = 65.50dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of OFDM technique on the next page shows 45.38dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 96.35dBuV/m (Average), so the maximum field strength in restrict band is 96.35 - 45.38 = 50.97dBuV/m which is under 54dBuV/m limit.

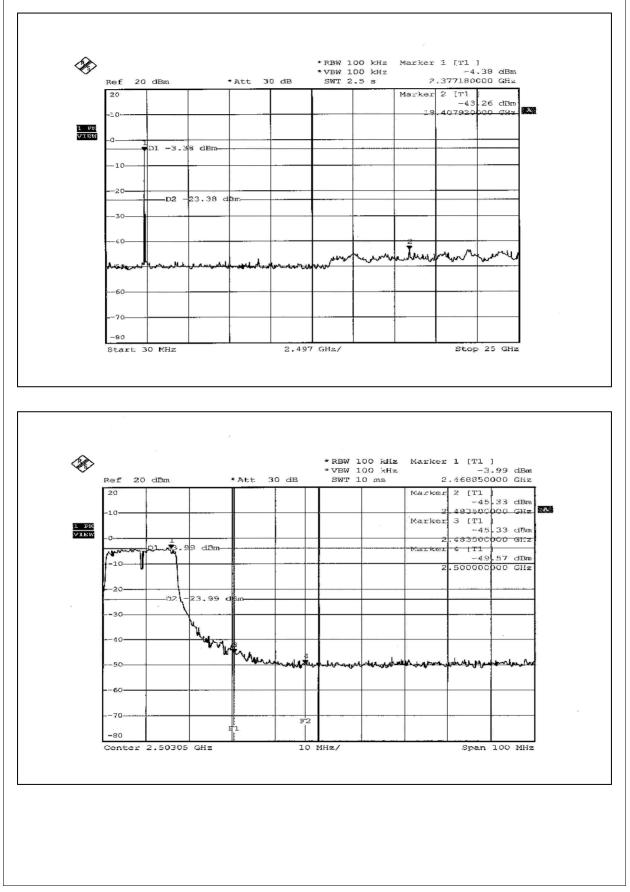
NOTE 2: The band edge emission plot of OFDM technique on the next second page shows 41.34dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.03dBuV/m (Peak), so the maximum field strength in restrict band is 105.03 - 41.34 = 63.69dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of OFDM technique on the next third page shows 46.57dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 96.23dBuV/m (Average), so the maximum field strength in restrict band is 96.23 - 46.57 = 49.66dBuV/m which is under 54dBuV/m limit.

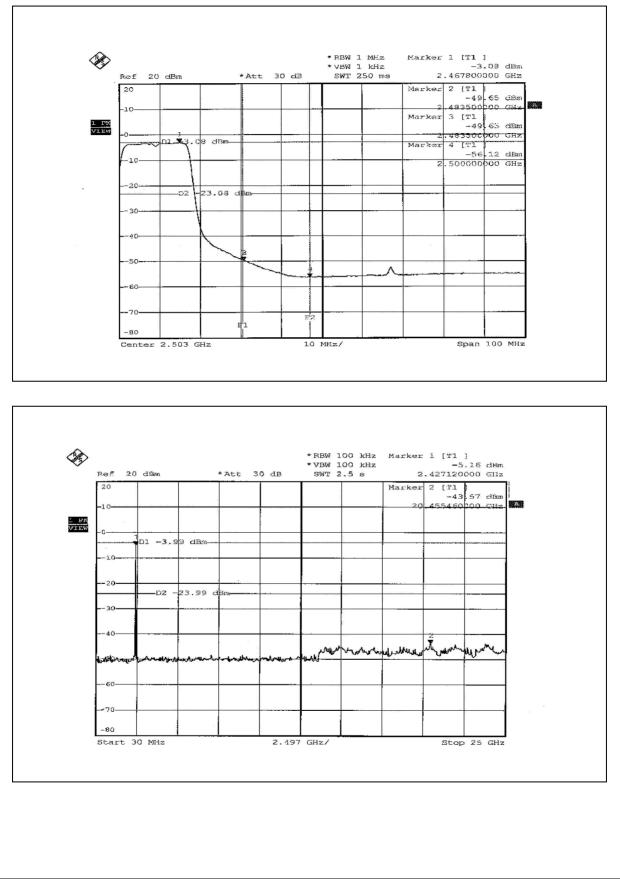














4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is PIFA antenna with UFL connector. The maximum Gain of the antenna is -1.09449dBi.



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST TEST MODE A





Report No.: RF950213L03

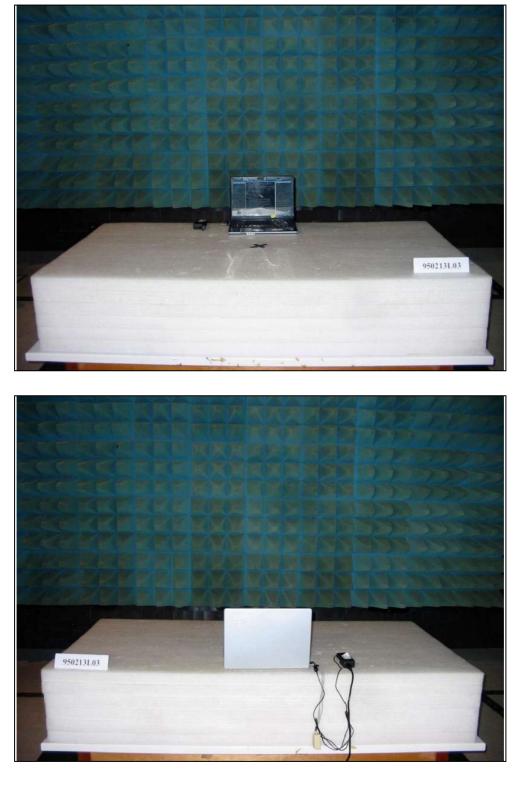


TEST MODE B



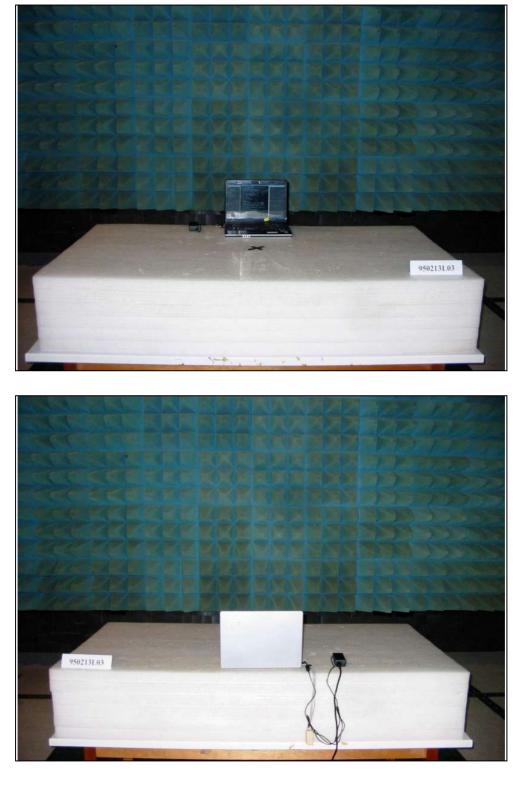


RADIATED EMISSION TEST TEST MODE A





TEST MODE B





6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 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.

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA, CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB, GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180 Fax: 886-2-26052943 Hsin Chu EMC/RF Lab: Tel: 886-3-5935343 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab: Linko RF Lab. Tel: 886-3-3183232 Fax: 886-3-3185050

Tel: 886-3-3270910 Fax: 886-3-3270892

Web Site: <u>www.adt.com.tw</u>

The address and road map of all our labs can be found in our web site also.



APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.