

FCC TEST REPORT (15.247)

REPORT NO.: RF940413L11
MODEL NO.: SL-3055
(refer to page 8 for other models)
RECEIVED: Apr. 15, 2005
TESTED: Apr. 15 ~ May 05, 2005
ISSUED: May 09, 2005

APPLICANT: 3Com Corporation

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No. 2177-01

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1. CERTIFICATION

PRODUCT: 11a/b/g Wireless PCI Adapter
BRAND NAME: 3Com (refer to page 8 for other brands)
MODEL NO.: SL-3055
(refer to page 8 for other models)
APPLICANT: 3Com Corporation
TEST SAMPLE: ENGINEERING SAMPLE
TESTED: Apr. 15 ~ May 05, 2005
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.

PREPARED BY : Candice Chen , **DATE:** May 09, 2005
(Candice Chen)

TECHNICAL
ACCEPTANCE : Gary Chang , **DATE:** May 09, 2005
Responsible for RF (Gary Chang)

APPROVED BY : Gary Chang for , **DATE:** May 09, 2005
(Cody Chang, Deputy Manager)

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 -17.35dB at 0.634MHz
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 -1.86dB at 2483.50MHz
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
Radiated emissions	30MHz ~ 200MHz	3.73 dB
	200MHz ~1000MHz	3.74 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	11a/b/g Wireless PCI Adapter
MODEL NO.	SL-3055
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps (Turbo mode: up to 108Mbps *see Note 4) 802.11a: 54/48/36/24/18/12/9/6Mbps (Turbo mode: up to 108Mbps *see Note 4)
FREQUENCY RANGE	802.11b & 802.11g: 2.412 ~ 2.462GHz 802.11a: 5.150 ~ 5.350GHz and 5.725 ~ 5.850GHz
NUMBER OF CHANNEL	802.11b & 802.11g: 11 for Normal mode / 1 for Turbo mode 802.11a: 12 for Normal mode / 5 for Turbo mode
CHANNEL SPACING	802.11b & 802.11g: 5MHz 802.11a: 20MHz for Normal mode / 40MHz for Turbo mode
OUTPUT POWER	65.013mW for 802.11b 81.283mW for 802.11g 43.451mW for 5.150 ~ 5.350GHz 101.158mW for 5.725 ~ 5.850GHz
ANTENNA TYPE	Please refer to the note 3 as below
DATA CABLE	NA
I/O PORTS	PCI
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT operates in both the 5GHz and 2.4GHz Bands and compatibility with 802.11a and 802.11b, 802.11g technology.
2. There are four brands, and model names provided to this EUT. Please refer to the table as below for EUT's information:

Brand	Model Name
3Com	SL-3055
3Com	3CRDAG675B
3Com	3CRDAG675B-AP
Gemtek	WPIA-112AG

3. The EUT have two combinations of antenna type. Please refer to following table.

No.	Brand	Antenna type	2.4GHz Gain (dBi)	5GHz Gain (dBi)
1	3COM	Dipole	1.17	2.02
2	WSS003 Dual Band	Dipole	1.50	2.50

4. This EUT is capable of providing data rates of up to 108 Mbps in Turbo mode depending upon reception quality.

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

3.2 DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz band:

For 802.11b/g: 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		

For 802.11g: One channel is provided to this EUT for turbo mode.

Channel	Frequency
6	2437 MHz

Operated in 5725 ~ 5850MHz band:

For 802.11a: Four channels are provided to this EUT for normal mode.

Channel	Frequency
1	5745 MHz
2	5765 MHz
3	5785 MHz
4	5805 MHz

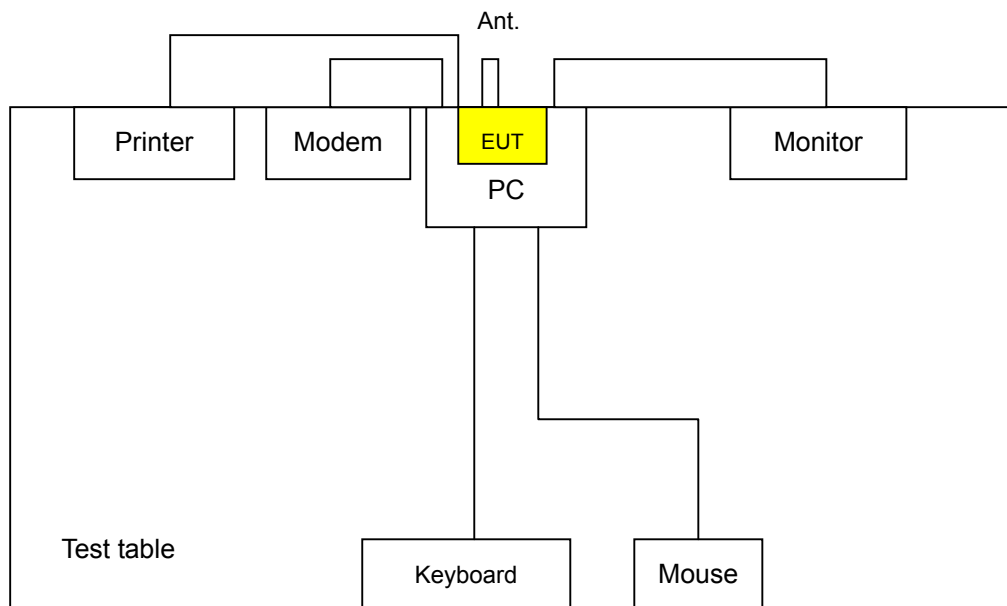
For 802.11a: Two channels are provided to this EUT for turbo mode.

Channel	Frequency
1	5760 MHz
2	5800 MHz

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

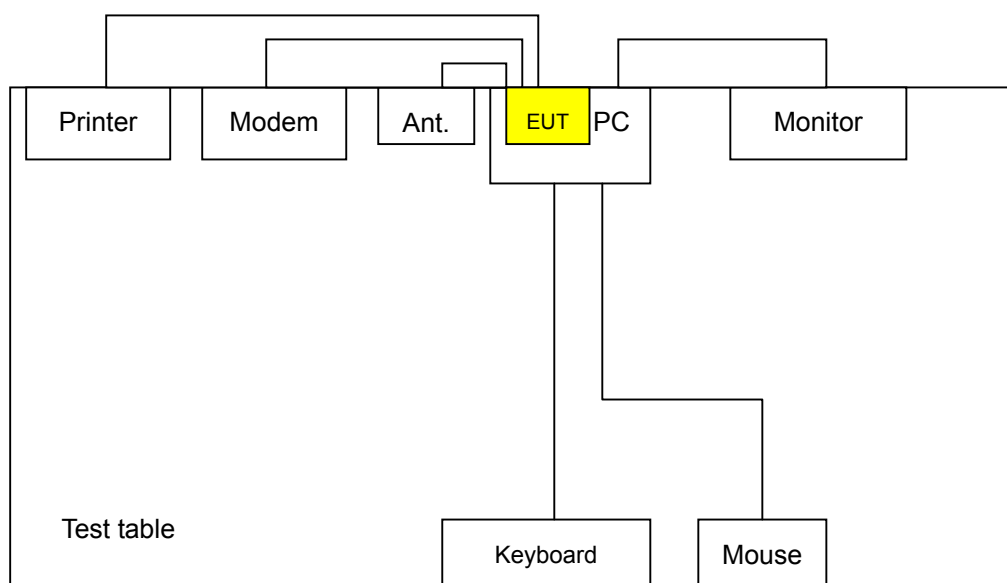
Test Mode A:

(Power from host equipment)



Test Mode B:

(Power from host equipment)



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
A	Note 1	X	X	Note 2	antenna 1 (see note 1 of section 3.1)
B	Note 1	X	X	Note 2	antenna 2 (see note 1 of section 3.1)

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

Note 1: No effect on Conducted RF measurement.

Note 2: Conducted RF measurement is independent of antenna.

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).
- ☒ 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)
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
B	802.11a	1 to 4	3	OFDM	BPSK	6

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)
A	802.11g	1 to 11	11	OFDM	BPSK	6
B	802.11g	1 to 11	11	OFDM	BPSK	6
A	802.11a	1 to 4	3	OFDM	BPSK	6
B	802.11a	1 to 4	3	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).
- ☒ 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)
A	802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
B	802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
A	802.11g Turbo	6	6	OFDM	BPSK	12
B	802.11g Turbo	6	6	OFDM	BPSK	12
A	802.11a	1 to 4	1, 3, 4	OFDM	BPSK	6
B	802.11a	1 to 4	1, 3, 4	OFDM	BPSK	6
A	802.11a Turbo	1 to 2	1, 2	OFDM	BPSK	12
B	802.11a Turbo	1 to 2	1, 2	OFDM	BPSK	12

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	CCK	11
802.11g	1 to 11	1, 11	OFDM	BPSK	6
802.11g Turbo	6	6	OFDM	BPSK	12
802.11a	1 to 5	1, 5	OFDM	BPSK	6
802.11a Turbo	1 to 2	1, 2	OFDM	BPSK	12

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	CCK	11
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11g Turbo	6	6	OFDM	BPSK	12
802.11a	1 to 5	1, 3, 5	OFDM	BPSK	6
802.11a Turbo	1 to 2	1, 2	OFDM	BPSK	12



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 11a/b/g Wireless PCI Adapter. 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

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PC	MSI	Hetis 865G	380125734	FCC DoC Approved
2	LCD MONITOR	ACER	AL1721	ET.L0408.01040 4001E6PK00	FCC DoC Approved
3	PRINTER	EPSON	LQ-300+	DCGY054147	FCC DoC Approved
4	MOUSE	HP	M-S69	M4-010565	INZ211443
5	KEYBOARD	HP	SK-1688	C0306114659	GYUR84SK
6	MODEM	ACEEX	1414V/3	0401008269	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8 m shielded cable with one core
3	1.8 m shielded cable without core
4	1.2 m shielded cable without core
5	1.3 m shielded cable without core
6	1.2 m shielded cable without core

NOTE: All power cords of the above support units are non shielded (1.8m).

4. TEST TYPES AND RESULTS (802.11b & g 2412~2462MHz Band)

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	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. 16, 2005
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 09, 2006
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 15, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 15, 2006
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.



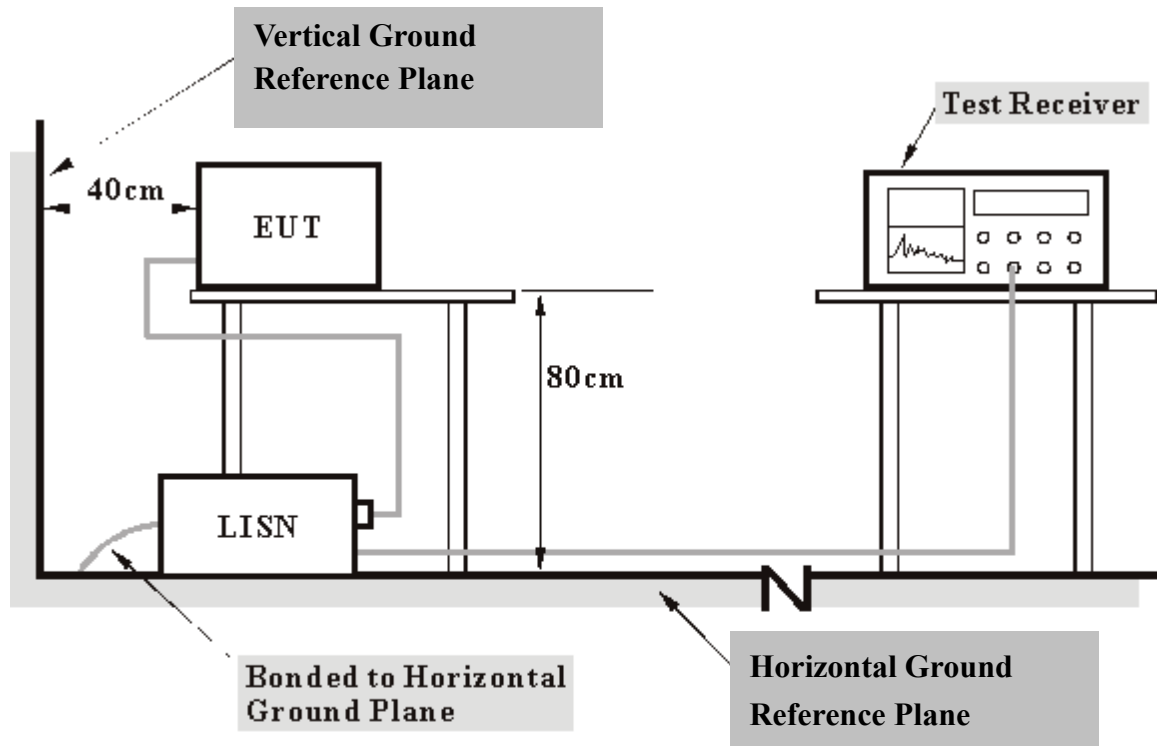
4.1.3 TEST PROCEDURES

- 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



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

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

4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT into Desktop PC placed on a testing table.
- b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The notebook system sent "H" messages to its screen.
- d. The notebook system sent "H" messages to modem.
- e. The notebook system sent "H" messages to printer, and the printer printed them on paper.
- f. Steps c ~ e were repeated.

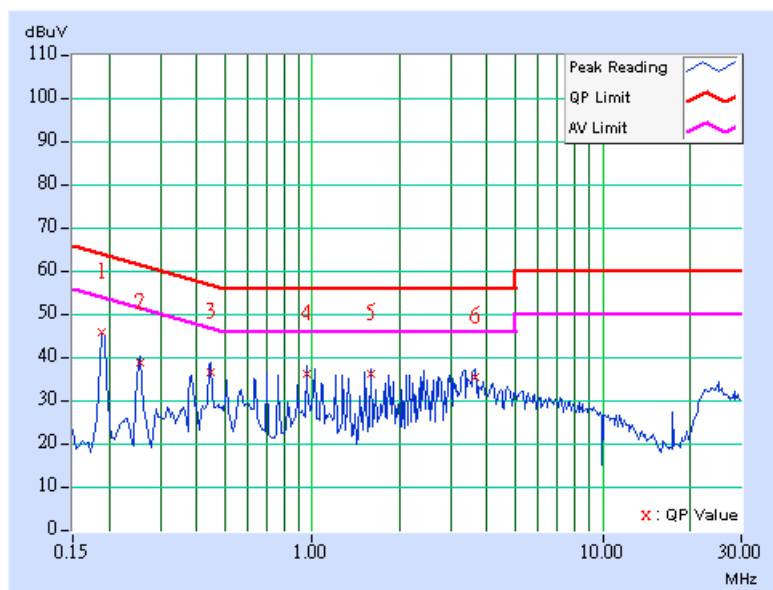
4.1.7 TEST RESULTS

Conducted Worst-Case Data

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	PHASE	Line 1
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.11	45.57	-	45.68	-	64.06	54.06	-18.38	-
2	0.255	0.11	38.35	-	38.46	-	61.58	51.58	-23.12	-
3	0.447	0.12	36.14	-	36.26	-	56.93	46.93	-20.67	-
4	0.955	0.23	35.82	-	36.05	-	56.00	46.00	-19.95	-
5	1.590	0.25	36.08	-	36.33	-	56.00	46.00	-19.67	-
6	3.625	0.37	35.15	-	35.52	-	56.00	46.00	-20.48	-

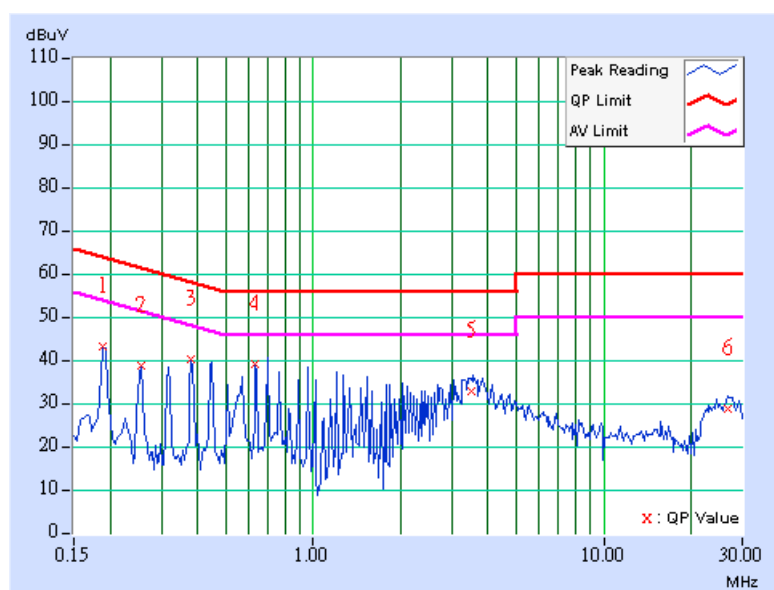
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	PHASE	Line 2
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.11	42.49	-	42.60	-	64.08	54.08	-21.48	-
2	0.255	0.11	37.76	-	37.87	-	61.58	51.58	-23.71	-
3	0.380	0.11	39.25	-	39.36	-	58.27	48.27	-18.91	-
4	0.634	0.16	38.21	-	38.37	-	56.00	46.00	-17.63	-
5	3.492	0.36	32.14	-	32.50	-	56.00	46.00	-23.50	-
6	26.898	1.01	28.02	-	29.03	-	60.00	50.00	-30.97	-

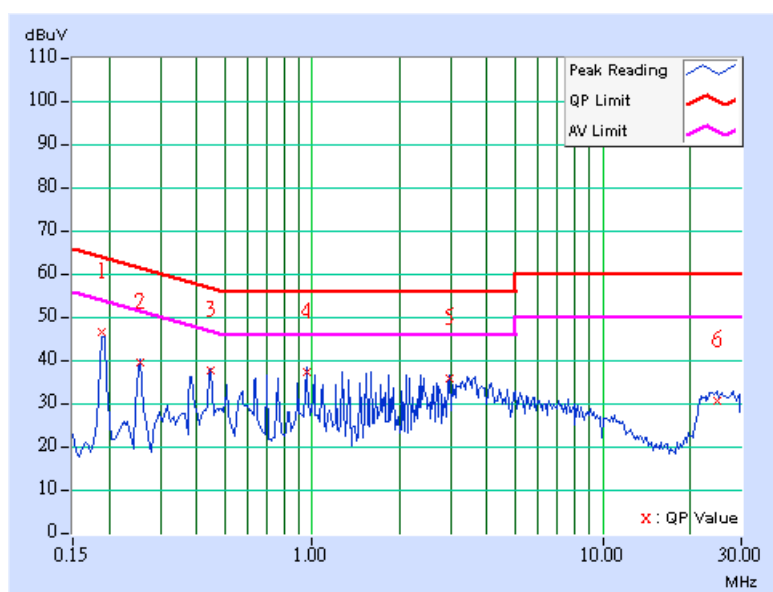
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	PHASE	Line 1
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.11	45.28	-	45.39	-	64.08	54.08	-18.69	-
2	0.255	0.11	38.29	-	38.40	-	61.58	51.58	-23.18	-
3	0.447	0.12	36.28	-	36.40	-	56.93	46.93	-20.53	-
4	0.955	0.23	36.12	-	36.35	-	56.00	46.00	-19.65	-
5	2.988	0.32	34.67	-	34.99	-	56.00	46.00	-21.01	-
6	24.676	1.33	29.23	-	30.56	-	60.00	50.00	-29.44	-

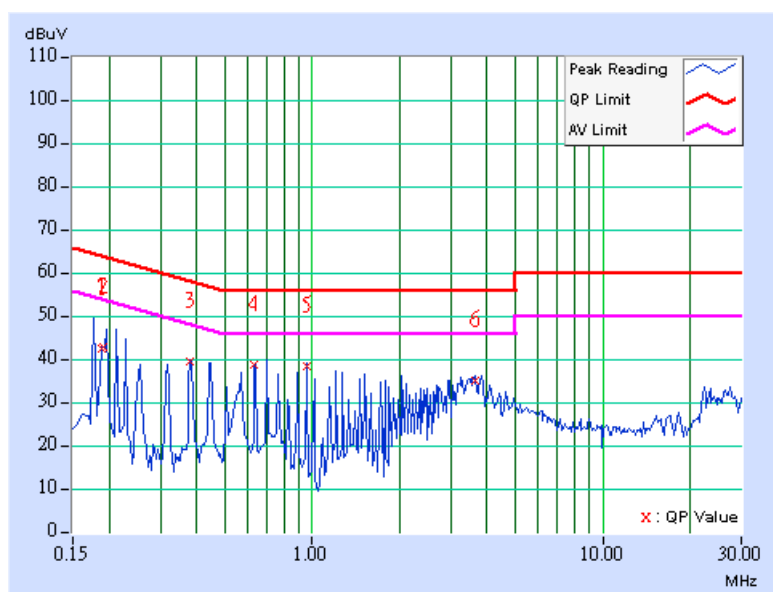
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	PHASE	Line 2
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.11	42.31	-	42.42	-	64.06	54.06	-21.64	-
2	0.190	0.11	42.51	-	42.62	-	64.03	54.03	-21.42	-
3	0.380	0.11	39.35	-	39.46	-	58.27	48.27	-18.81	-
4	0.634	0.16	38.49	-	38.65	-	56.00	46.00	-17.35	-
5	0.955	0.23	38.16	-	38.39	-	56.00	46.00	-17.61	-
6	3.625	0.37	34.91	-	35.28	-	56.00	46.00	-20.72	-

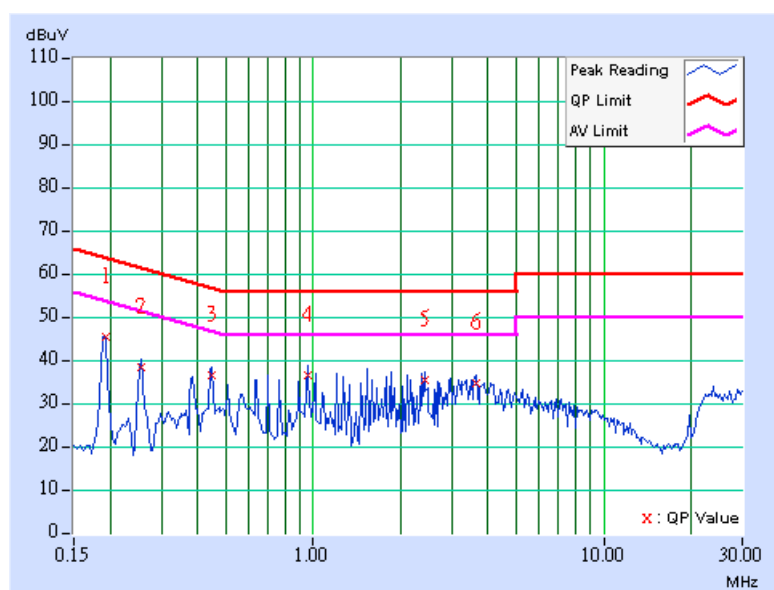
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	PHASE	Line 1
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.11	45.12	-	45.23	-	63.91	53.91	-18.68	-
2	0.255	0.11	38.31	-	38.42	-	61.58	51.58	-23.16	-
3	0.447	0.12	36.34	-	36.46	-	56.93	46.93	-20.47	-
4	0.955	0.23	36.28	-	36.51	-	56.00	46.00	-19.49	-
5	2.418	0.29	35.21	-	35.50	-	56.00	46.00	-20.50	-
6	3.625	0.37	34.45	-	34.82	-	56.00	46.00	-21.18	-

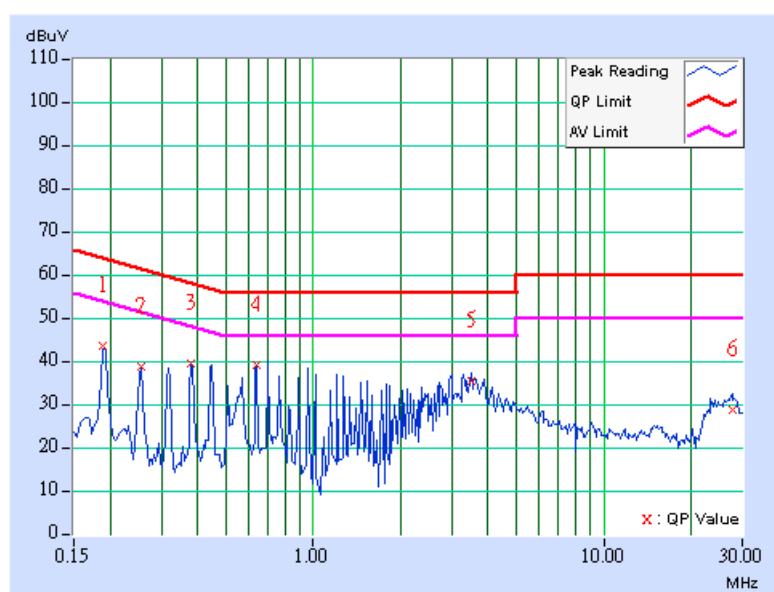
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	PHASE	Line 2
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.11	42.59	-	42.70	-	64.08	54.08	-21.38	-
2	0.255	0.11	37.89	-	38.00	-	61.58	51.58	-23.58	-
3	0.380	0.11	38.62	-	38.73	-	58.27	48.27	-19.54	-
4	0.638	0.16	38.23	-	38.39	-	56.00	46.00	-17.61	-
5	3.500	0.36	34.51	-	34.87	-	56.00	46.00	-21.13	-
6	27.688	1.07	27.95	-	29.02	-	60.00	50.00	-30.98	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 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	ESIB7	100188	Dec. 19, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Jan. 22, 2006
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Jan. 16, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2006
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Feb. 17, 2006
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Feb. 17, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	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 1.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC4924-2.

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 meter semi- anechoic. 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.

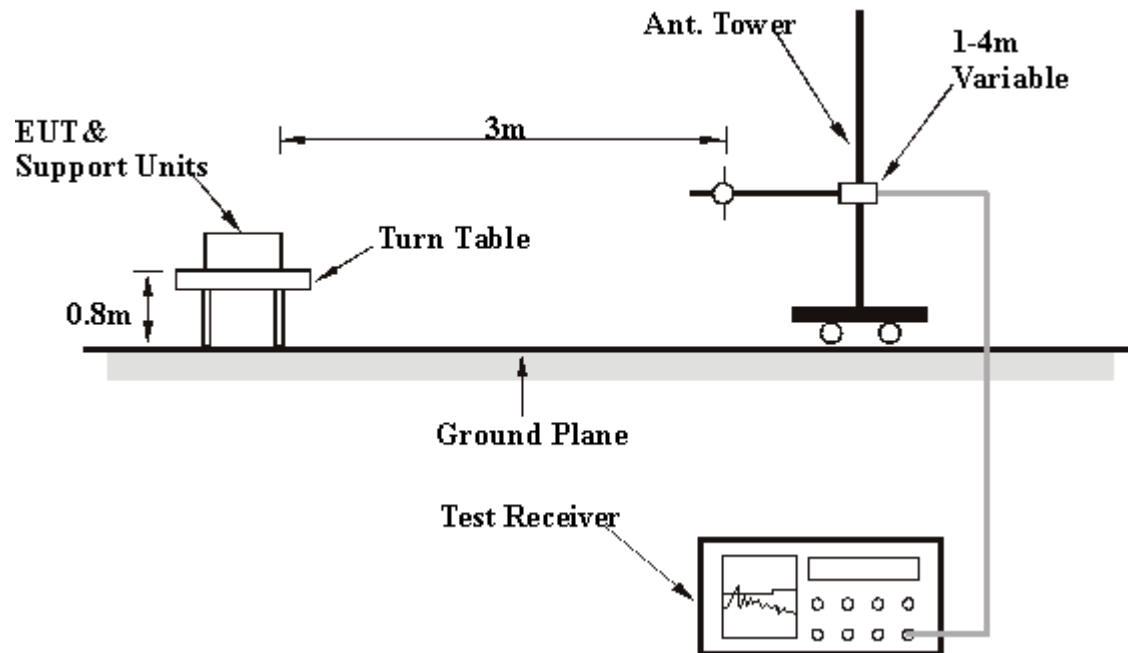
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz 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.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz 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 (Antenna 1)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	99.98	33.13 QP	43.50	-10.37	1.50 H	58	22.38	10.74
2	370.18	34.55 QP	46.00	-11.45	1.00 H	220	18.61	15.94
3	401.28	35.24 QP	46.00	-10.76	1.00 H	196	18.57	16.67
4	438.22	38.71 QP	46.00	-7.29	1.00 H	184	21.10	17.61
5	473.21	38.22 QP	46.00	-7.78	1.00 H	289	19.99	18.22
6	506.25	34.17 QP	46.00	-11.83	1.50 H	130	15.45	18.71
7	539.30	38.70 QP	46.00	-7.30	1.25 H	121	19.31	19.39
8	574.29	38.43 QP	46.00	-7.57	1.25 H	118	18.19	20.23
9	751.18	34.41 QP	46.00	-11.59	1.25 H	133	10.99	23.42
10	805.61	35.77 QP	46.00	-10.23	1.00 H	127	12.02	23.75

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	438.22	35.63 QP	46.00	-10.37	1.00 V	166	18.02	17.61
2	473.21	36.41 QP	46.00	-9.59	1.00 V	151	18.18	18.22
3	506.25	34.77 QP	46.00	-11.23	1.00 V	166	16.06	18.71
4	537.35	37.69 QP	46.00	-8.31	1.50 V	328	18.34	19.35
5	574.29	34.78 QP	46.00	-11.22	1.50 V	109	14.55	20.23
6	671.48	35.32 QP	46.00	-10.68	1.00 V	163	13.45	21.87
7	782.28	34.29 QP	46.00	-11.71	1.50 V	139	10.69	23.60
8	914.47	35.64 QP	46.00	-10.36	1.00 V	343	10.39	25.25
9	947.52	34.90 QP	46.00	-11.10	1.00 V	355	9.31	25.59

- 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

Below 1GHz Worst-Case Data (Antenna 2)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	168.02	30.61 QP	43.50	-12.89	1.50 H	70	16.73	13.88
2	218.56	32.49 QP	46.00	-13.51	1.00 H	166	20.91	11.59
3	675.37	33.01 QP	46.00	-12.99	1.00 H	37	11.09	21.92
4	743.41	31.03 QP	46.00	-14.97	1.00 H	64	7.77	23.26
5	811.44	31.67 QP	46.00	-14.33	1.00 H	127	7.88	23.80
6	933.91	31.75 QP	46.00	-14.25	1.50 H	109	6.30	25.45

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	61.10	28.14 QP	40.00	-11.86	1.50 V	169	14.82	13.33
2	304.09	30.48 QP	46.00	-15.52	1.50 V	343	16.06	14.42
3	473.21	31.03 QP	46.00	-14.97	1.00 V	340	12.81	18.22
4	506.25	31.17 QP	46.00	-14.83	1.00 V	322	12.46	18.71
5	537.35	30.83 QP	46.00	-15.17	1.00 V	16	11.48	19.35
6	595.67	30.91 QP	46.00	-15.09	1.00 V	337	10.13	20.78
7	673.43	35.68 QP	46.00	-10.32	1.50 V	328	13.79	21.90
8	708.42	30.43 QP	46.00	-15.57	1.50 V	346	7.99	22.44
9	751.18	32.47 QP	46.00	-13.53	1.50 V	340	9.05	23.42
10	811.44	31.26 QP	46.00	-14.74	1.00 V	130	7.46	23.80
11	914.47	34.44 QP	46.00	-11.56	1.00 V	340	9.19	25.25
12	947.52	34.95 QP	46.00	-11.05	1.00 V	349	9.36	25.59

- 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

802.11b DSSS modulation (Antenna 1)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	2375.00	55.41 PK	74.00	-18.59	1.31 H	80	24.50	30.91
1	2375.00	46.85 AV	54.00	-7.15	1.31 H	80	15.94	30.91
2	2386.00	57.67 PK	74.00	-16.33	1.21 H	70	26.71	30.96
2	2386.00	49.01 AV	54.00	-4.99	1.21 H	70	18.05	30.96
3	*2412.00	107.22 PK			1.21 H	70	76.16	31.06
3	*2412.00	99.80 AV			1.21 H	70	68.74	31.06
4	3216.00	45.61 PK	74.00	-28.39	1.26 H	44	13.02	32.59
4	3216.00	36.79 AV	54.00	-17.21	1.26 H	44	4.20	32.59
5	4824.00	50.81 PK	74.00	-23.19	1.07 H	81	14.38	36.43
5	4824.00	44.49 AV	54.00	-9.51	1.07 H	81	8.06	36.43

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	2375.00	58.54 PK	74.00	-15.46	1.08 V	70	27.63	30.91
1	2375.00	51.10 AV	54.00	-2.90	1.08 V	70	20.19	30.91
2	2386.00	58.73 PK	74.00	-15.27	1.28 V	47	27.77	30.96
2	2386.00	51.13 AV	54.00	-2.87	1.28 V	47	20.17	30.96
3	*2412.00	113.19 PK			1.28 V	47	82.13	31.06
3	*2412.00	106.38 AV			1.28 V	47	75.32	31.06
4	3216.00	49.46 PK	74.00	-24.54	1.39 V	33	16.87	32.59
4	3216.00	45.71 AV	54.00	-8.29	1.39 V	33	13.12	32.59
5	4824.00	52.65 PK	74.00	-21.35	1.14 V	360	16.22	36.43
5	4824.00	46.73 AV	54.00	-7.27	1.14 V	360	10.30	36.43

- 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	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	108.60 PK			1.00 H	23	77.43	31.17
1	*2437.00	102.03 AV			1.00 H	23	70.86	31.17
2	3249.00	44.67 PK	74.00	-29.33	1.27 H	33	12.04	32.63
2	3249.00	36.39 AV	54.00	-17.61	1.27 H	33	3.76	32.63
3	4874.00	49.83 PK	74.00	-24.17	1.05 H	80	13.29	36.54
3	4874.00	43.70 AV	54.00	-10.30	1.05 H	80	7.16	36.54

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	114.96 PK			1.13 V	315	83.79	31.17
1	*2437.00	107.39 AV			1.13 V	315	76.22	31.17
2	3249.00	47.91 PK	74.00	-26.09	1.16 V	31	15.28	32.63
2	3249.00	43.99 AV	54.00	-10.01	1.16 V	31	11.36	32.63
3	4874.00	54.13 PK	74.00	-19.87	1.12 V	27	17.59	36.54
3	4874.00	47.16 AV	54.00	-6.84	1.12 V	27	10.62	36.54

- 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	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	109.54 PK			1.20 H	48	78.26	31.28
1	*2462.00	101.54 AV			1.20 H	48	70.26	31.28
2	2500.00	57.82 PK	74.00	-16.18	1.20 H	48	26.38	31.44
2	2500.00	49.13 AV	54.00	-4.87	1.20 H	48	17.69	31.44
3	3282.00	46.20 PK	74.00	-27.80	1.30 H	272	13.53	32.67
3	3282.00	34.50 AV	54.00	-19.50	1.30 H	272	1.83	32.67
4	4924.00	48.20 PK	74.00	-25.80	1.18 H	54	11.54	36.66
4	4924.00	39.59 AV	54.00	-14.41	1.18 H	54	2.93	36.66

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	*2462.00	115.09 PK			1.05 V	305	83.81	31.28
1	*2462.00	107.60 AV			1.05 V	305	76.32	31.28
2	2500.00	61.72 PK	74.00	-12.28	1.05 V	305	30.28	31.44
2	2500.00	51.82 AV	54.00	-2.18	1.05 V	305	20.38	31.44
3	3282.00	50.43 PK	74.00	-23.57	1.31 V	295	17.76	32.67
3	3282.00	46.01 AV	54.00	-7.99	1.31 V	295	13.34	32.67
4	4924.00	55.93 PK	74.00	-18.07	1.35 V	31	19.27	36.66
4	4924.00	49.62 AV	54.00	-4.38	1.35 V	31	12.96	36.66

- 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

802.11b DSSS modulation (Antenna 2)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	2373.00	54.52 PK	74.00	-19.48	1.30 H	195	23.62	30.90
1	2373.00	45.07 AV	54.00	-8.93	1.30 H	195	14.17	30.90
2	2386.00	54.25 PK	74.00	-19.75	1.20 H	195	23.29	30.96
2	2386.00	45.20 AV	54.00	-8.80	1.20 H	195	14.24	30.96
3	*2412.00	101.10 PK			1.20 H	195	70.04	31.06
3	*2412.00	93.44 AV			1.20 H	195	62.38	31.06
4	4824.00	50.41 PK	74.00	-23.59	1.25 H	313	13.98	36.43
4	4824.00	42.75 AV	54.00	-11.25	1.25 H	313	6.32	36.43

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	2372.00	60.51 PK	74.00	-13.49	1.10 V	258	29.61	30.90
1	2372.00	51.79 AV	54.00	-2.21	1.10 V	258	20.89	30.90
2	2386.00	61.40 PK	74.00	-12.60	1.00 V	268	30.44	30.96
2	2386.00	50.17 AV	54.00	-3.83	1.00 V	268	19.21	30.96
3	*2412.00	113.74 PK			1.00 V	268	82.68	31.06
3	*2412.00	105.93 AV			1.00 V	268	74.87	31.06
4	3216.00	43.78 PK	74.00	-30.22	1.23 V	333	11.19	32.59
4	3216.00	34.56 AV	54.00	-19.44	1.23 V	333	1.97	32.59
5	4824.00	53.31 PK	74.00	-20.69	1.12 V	22	16.88	36.43
5	4824.00	47.64 AV	54.00	-6.36	1.12 V	22	11.21	36.43

- 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	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	102.60 PK			1.19 H	196	71.43	31.17
1	*2437.00	95.40 AV			1.19 H	196	64.23	31.17
2	4874.00	50.46 PK	74.00	-23.54	1.04 H	47	13.92	36.54
2	4874.00	43.07 AV	54.00	-10.93	1.04 H	47	6.53	36.54

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	114.89 PK			1.16 V	265	83.72	31.17
1	*2437.00	107.40 AV			1.16 V	265	76.23	31.17
2	3249.00	43.48 PK	74.00	-30.52	1.15 V	37	10.85	32.63
2	3249.00	33.69 AV	54.00	-20.31	1.15 V	37	1.06	32.63
3	4874.00	50.24 PK	74.00	-23.76	1.18 V	176	13.70	36.54
3	4874.00	43.49 AV	54.00	-10.51	1.18 V	176	6.95	36.54

- 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	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	101.55 PK			1.35 H	208	70.27	31.28
1	*2462.00	94.12 AV			1.35 H	208	62.84	31.28
2	2500.00	54.62 PK	74.00	-19.38	1.35 H	208	23.18	31.44
2	2500.00	45.41 AV	54.00	-8.59	1.35 H	208	13.97	31.44
3	4924.00	52.34 PK	74.00	-21.66	1.03 H	100	15.68	36.66
3	4924.00	43.18 AV	54.00	-10.82	1.03 H	100	6.52	36.66

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	*2462.00	114.10 PK			1.16 V	266	82.82	31.28
1	*2462.00	106.23 AV			1.16 V	266	74.95	31.28
2	2500.00	61.35 PK	74.00	-12.65	1.16 V	266	29.91	31.44
2	2500.00	50.34 AV	54.00	-3.66	1.16 V	266	18.90	31.44
3	3282.00	45.68 PK	74.00	-28.32	1.20 V	1	13.01	32.67
3	3282.00	36.80 AV	54.00	-17.20	1.20 V	1	4.13	32.67
4	4924.00	54.20 PK	74.00	-19.80	1.03 V	338	17.54	36.66
4	4924.00	48.56 AV	54.00	-5.44	1.03 V	338	11.90	36.66

- 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 (Antenna 1)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	2390.00	58.11 PK	74.00	-15.89	1.23 H	48	27.14	30.97
1	2390.00	46.86 AV	54.00	-7.14	1.23 H	48	15.89	30.97
2	*2412.00	104.87 PK			1.23 H	48	73.81	31.06
2	*2412.00	94.89 AV			1.23 H	48	63.83	31.06
3	3216.00	46.22 PK	74.00	-27.78	1.16 H	313	13.63	32.59
3	3216.00	38.06 AV	54.00	-15.94	1.16 H	313	5.47	32.59
4	4924.00	44.61 PK	74.00	-29.39	1.07 H	177	7.95	36.66
4	4924.00	31.66 AV	54.00	-22.34	1.07 H	177	-5.00	36.66

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	2390.00	65.61 PK	74.00	-8.39	1.70 V	360	34.64	30.97
1	2390.00	49.94 AV	54.00	-4.06	1.70 V	360	18.97	30.97
2	*2412.00	110.27 PK			1.70 V	360	79.21	31.06
2	*2412.00	100.07 AV			1.70 V	360	69.01	31.06
3	3216.00	52.33 PK	74.00	-21.67	1.37 V	226	19.74	32.59
3	3216.00	49.89 AV	54.00	-4.11	1.37 V	226	17.30	32.59
4	4824.00	46.17 PK	74.00	-27.83	1.00 V	51	9.74	36.43
4	4824.00	33.93 AV	54.00	-20.07	1.00 V	51	-2.50	36.43

- 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	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	108.31 PK			1.00 H	27	77.14	31.17
1	*2437.00	100.21 AV			1.00 H	27	69.04	31.17
2	3249.00	49.24 PK	74.00	-24.76	1.28 H	31	16.61	32.63
2	3249.00	42.30 AV	54.00	-11.70	1.28 H	31	9.67	32.63
3	4924.00	48.52 PK	74.00	-25.48	1.04 H	350	11.86	36.66
3	4924.00	36.20 AV	54.00	-17.80	1.04 H	350	-0.46	36.66

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	112.44 PK			1.32 V	306	81.27	31.17
1	*2437.00	103.42 AV			1.32 V	306	72.25	31.17
2	3249.00	54.06 PK	74.00	-19.94	1.29 V	34	21.43	32.63
2	3249.00	51.77 AV	54.00	-2.23	1.29 V	34	19.14	32.63
3	4874.00	53.51 PK	74.00	-20.49	1.12 V	194	16.97	36.54
3	4874.00	40.96 AV	54.00	-13.04	1.12 V	194	4.42	36.54

- 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	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	104.58 PK			1.21 H	50	73.30	31.28
1	*2462.00	94.50 AV			1.21 H	50	63.22	31.28
2	2500.00	57.66 PK	74.00	-16.34	1.21 H	50	26.22	31.44
2	2500.00	47.32 AV	54.00	-6.68	1.21 H	50	15.88	31.44
3	3282.00	46.50 PK	74.00	-27.50	1.04 H	282	13.83	32.67
3	3282.00	38.50 AV	54.00	-15.50	1.04 H	282	5.83	32.67
4	4924.00	46.80 PK	74.00	-27.20	1.10 H	140	10.14	36.66
4	4924.00	32.56 AV	54.00	-21.44	1.10 H	140	-4.10	36.66

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	*2462.00	110.86 PK			1.04 V	305	79.58	31.28
1	*2462.00	101.52 AV			1.04 V	305	70.24	31.28
2	2483.50	66.71 PK	74.00	-7.29	1.04 V	305	35.34	31.37
2	2483.50	52.14 AV	54.00	-1.86	1.04 V	305	20.77	31.37
3	3282.00	53.14 PK	74.00	-20.86	1.34 V	360	20.47	32.67
3	3282.00	51.07 AV	54.00	-2.93	1.34 V	360	18.40	32.67
4	4924.00	54.10 PK	74.00	-19.90	1.12 V	350	17.44	36.66
4	4924.00	41.32 AV	54.00	-12.68	1.12 V	350	4.66	36.66

- 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 (Antenna 2)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	2390.00	54.88 PK	74.00	-19.12	1.00 H	331	23.91	30.97
1	2390.00	45.89 AV	54.00	-8.11	1.00 H	331	14.92	30.97
2	*2412.00	96.42 PK			1.00 H	331	65.36	31.06
2	*2412.00	87.36 AV			1.00 H	331	56.30	31.06
3	4824.00	44.92 PK	74.00	-29.08	1.11 H	174	8.49	36.43
3	4824.00	31.40 AV	54.00	-22.60	1.11 H	174	-5.03	36.43

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	2390.00	60.61 PK	74.00	-13.39	1.19 V	88	29.64	30.97
1	2390.00	48.84 AV	54.00	-5.16	1.19 V	88	17.87	30.97
2	*2412.00	110.73 PK			1.19 V	88	79.67	31.06
2	*2412.00	100.67 AV			1.19 V	88	69.61	31.06
3	3216.00	45.86 PK	74.00	-28.14	1.13 V	165	13.27	32.59
3	3216.00	35.78 AV	54.00	-18.22	1.13 V	165	3.19	32.59
4	4824.00	46.14 PK	74.00	-27.86	1.11 V	197	9.71	36.43
4	4824.00	33.67 AV	54.00	-20.33	1.11 V	197	-2.76	36.43

- 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	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	105.48 PK			1.25 H	332	74.31	31.17
1	*2437.00	94.50 AV			1.25 H	332	63.33	31.17
2	4874.00	47.50 PK	74.00	-26.50	1.07 H	188	10.96	36.54
2	4874.00	34.20 AV	54.00	-19.80	1.07 H	188	-2.34	36.54

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	112.08 PK			1.17 V	266	80.91	31.17
1	*2437.00	103.35 AV			1.17 V	266	72.18	31.17
2	3249.00	50.20 PK	74.00	-23.80	1.07 V	144	17.57	32.63
2	3249.00	38.40 AV	54.00	-15.60	1.07 V	144	5.77	32.63
3	4874.00	49.20 PK	74.00	-24.80	1.11 V	171	12.66	36.54
3	4874.00	38.10 AV	54.00	-15.90	1.11 V	171	1.56	36.54

- 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	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	97.50 PK			1.16 H	197	66.22	31.28
1	*2462.00	89.50 AV			1.16 H	197	58.22	31.28
2	2500.00	55.12 PK	74.00	-18.88	1.16 H	197	23.68	31.44
2	2500.00	46.13 AV	54.00	-7.87	1.16 H	197	14.69	31.44
3	4924.00	46.50 PK	74.00	-27.50	1.17 H	175	9.84	36.66
3	4924.00	34.50 AV	54.00	-19.50	1.17 H	175	-2.16	36.66

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	*2462.00	111.10 PK			1.00 V	264	79.82	31.28
1	*2462.00	101.80 AV			1.00 V	264	70.52	31.28
2	2483.50	62.50 PK	74.00	-11.50	1.00 V	264	31.13	31.37
2	2483.50	49.53 AV	54.00	-4.47	1.00 V	264	18.16	31.37
3	3282.00	46.80 PK	74.00	-27.20	1.22 V	294	14.13	32.67
3	3282.00	35.40 AV	54.00	-18.60	1.22 V	294	2.73	32.67
4	4924.00	47.88 PK	74.00	-26.12	1.22 V	1	11.22	36.66
4	4924.00	35.40 AV	54.00	-18.60	1.22 V	1	-1.26	36.66

- 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 Turbo OFDM modulation (Antenna 1)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	12Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	2390.00	58.53 PK	74.00	-15.47	1.24 H	49	27.56	30.97
1	2390.00	48.30 AV	54.00	-5.70	1.24 H	49	17.33	30.97
2	*2437.00	103.52 PK			1.24 H	49	72.35	31.17
2	*2437.00	94.82 AV			1.24 H	49	63.65	31.17
3	2483.50	59.80 PK	74.00	-14.20	1.24 H	49	28.43	31.37
3	2483.50	50.24 AV	54.00	-3.76	1.24 H	49	18.87	31.37
4	3249.00	46.58 PK	74.00	-27.42	1.32 H	309	13.95	32.63
4	3249.00	41.15 AV	54.00	-12.85	1.32 H	309	8.52	32.63
5	4874.00	46.50 PK	74.00	-27.50	1.07 H	174	9.96	36.54
5	4874.00	35.80 AV	54.00	-18.20	1.07 H	174	-0.74	36.54

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	2390.00	65.98 PK	74.00	-8.02	1.23 V	197	35.01	30.97
1	2390.00	51.86 AV	54.00	-2.14	1.23 V	197	20.89	30.97
2	*2437.00	109.65 PK			1.23 V	197	78.48	31.17
2	*2437.00	100.74 AV			1.23 V	197	69.57	31.17
3	2483.50	62.87 PK	74.00	-11.13	1.36 V	299	31.50	31.37
3	2483.50	51.69 AV	54.00	-2.31	1.36 V	299	20.32	31.37
4	3249.00	53.37 PK	74.00	-20.63	1.13 V	34	20.74	32.63
4	3249.00	51.50 AV	54.00	-2.50	1.13 V	34	18.87	32.63
5	4874.00	50.40 PK	74.00	-23.60	1.12 V	194	13.86	36.54
5	4874.00	37.26 AV	54.00	-16.74	1.12 V	194	0.72	36.54

- 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. “ * “ : Fundamental frequency

802.11g Turbo OFDM modulation (Antenna 2)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	12Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	2390.00	56.50 PK	74.00	-17.50	1.19 H	197	25.53	30.97
1	2390.00	47.28 AV	54.00	-6.72	1.19 H	197	16.31	30.97
2	*2437.00	99.85 PK			1.19 H	197	68.68	31.17
2	*2437.00	90.38 AV			1.19 H	197	59.21	31.17
3	2483.50	57.30 PK	74.00	-16.70	1.19 H	197	25.93	31.37
3	2483.50	48.69 AV	54.00	-5.31	1.19 H	197	17.32	31.37
4	4874.00	46.50 PK	74.00	-27.50	1.14 H	180	9.96	36.54
4	4874.00	35.20 AV	54.00	-18.80	1.14 H	180	-1.34	36.54

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	2390.00	65.72 PK	74.00	-8.28	1.18 V	264	34.75	30.97
1	2390.00	51.48 AV	54.00	-2.52	1.18 V	264	20.51	30.97
2	*2437.00	109.45 PK			1.18 V	264	78.28	31.17
2	*2437.00	100.12 AV			1.18 V	264	68.95	31.17
3	2483.50	61.50 PK	74.00	-12.50	1.18 V	264	30.13	31.37
3	2483.50	51.06 AV	54.00	-2.94	1.18 V	264	19.69	31.37
4	3249.00	48.90 PK	74.00	-25.10	1.12 V	184	16.27	32.63
4	3249.00	38.60 AV	54.00	-15.40	1.12 V	184	5.97	32.63
5	4874.00	48.36 PK	74.00	-25.64	1.00 V	1	11.82	36.54
5	4874.00	36.58 AV	54.00	-17.42	1.00 V	1	0.04	36.54

- 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. “ * ” : 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. 12, 2005

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

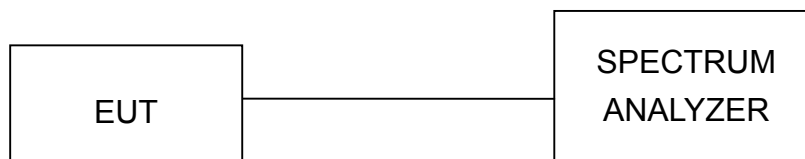
4.3.3 TEST PROCEDURE

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.

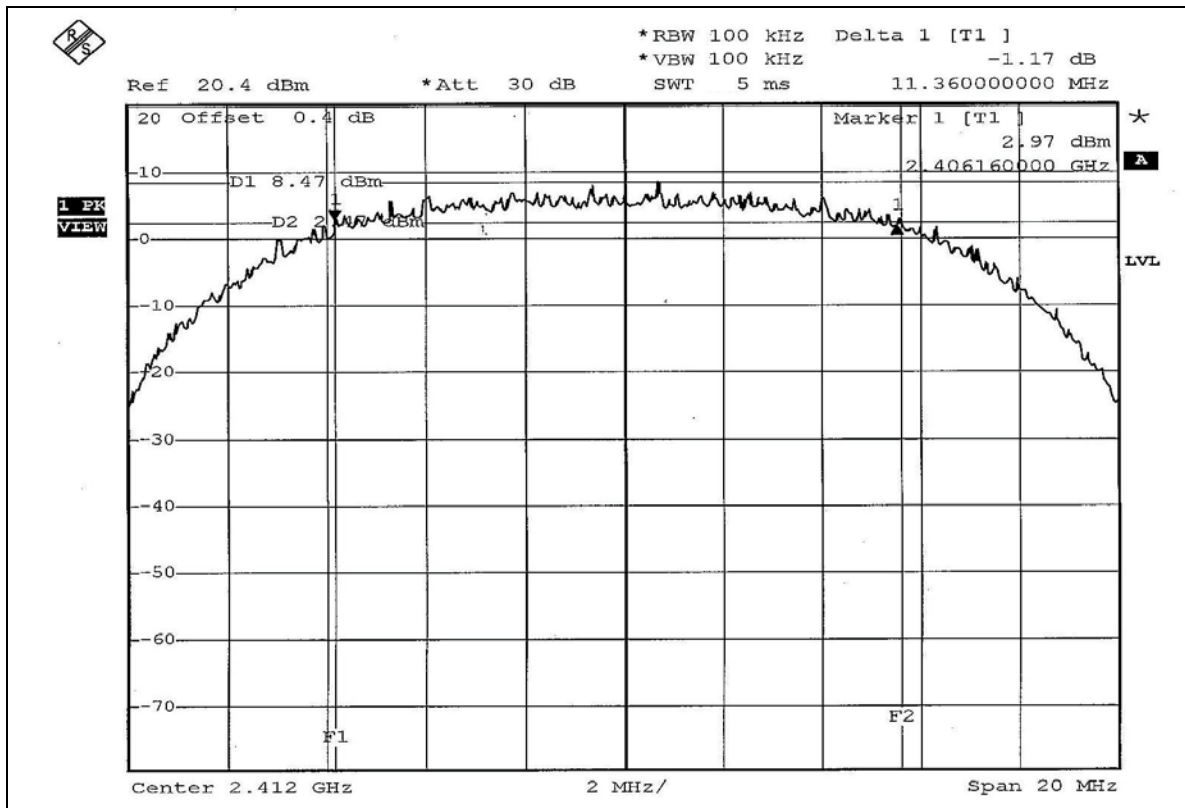
4.3.7 TEST RESULTS

802.11b DSSS modulation

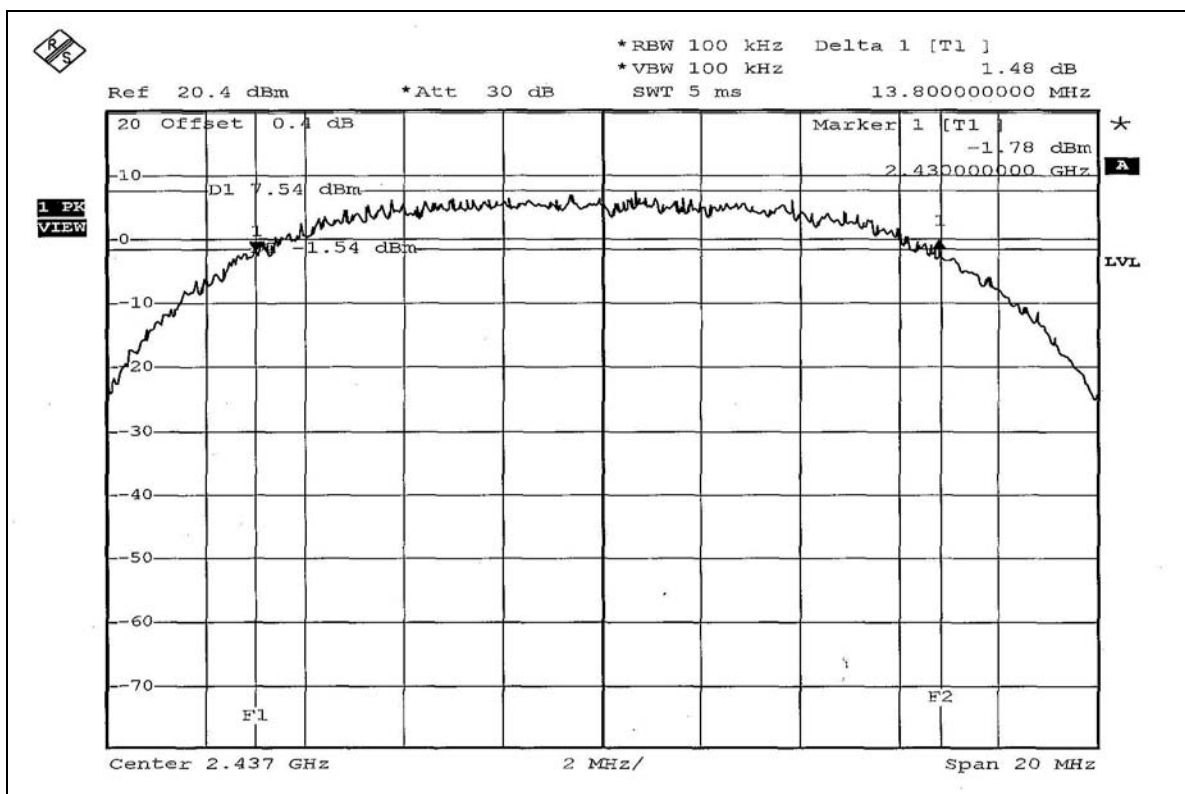
EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.36	0.5	PASS
6	2437	13.80	0.5	PASS
11	2462	11.64	0.5	PASS

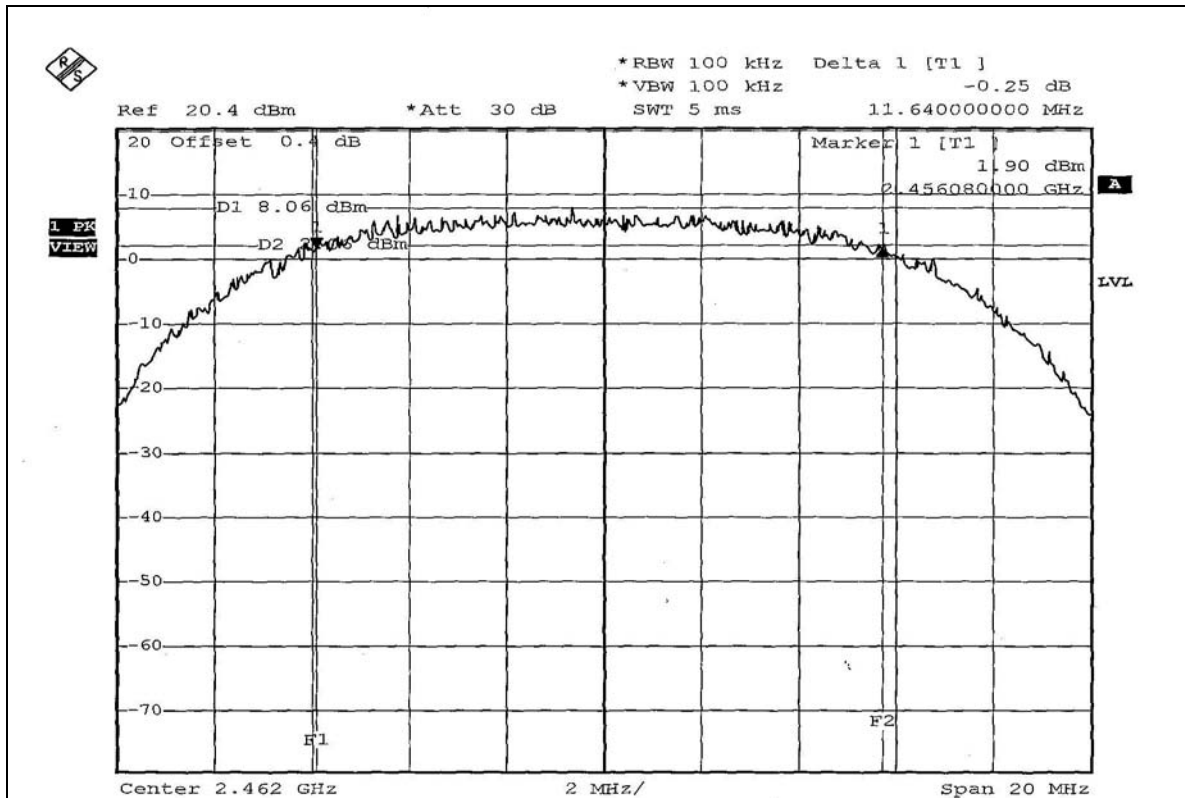
CH 1



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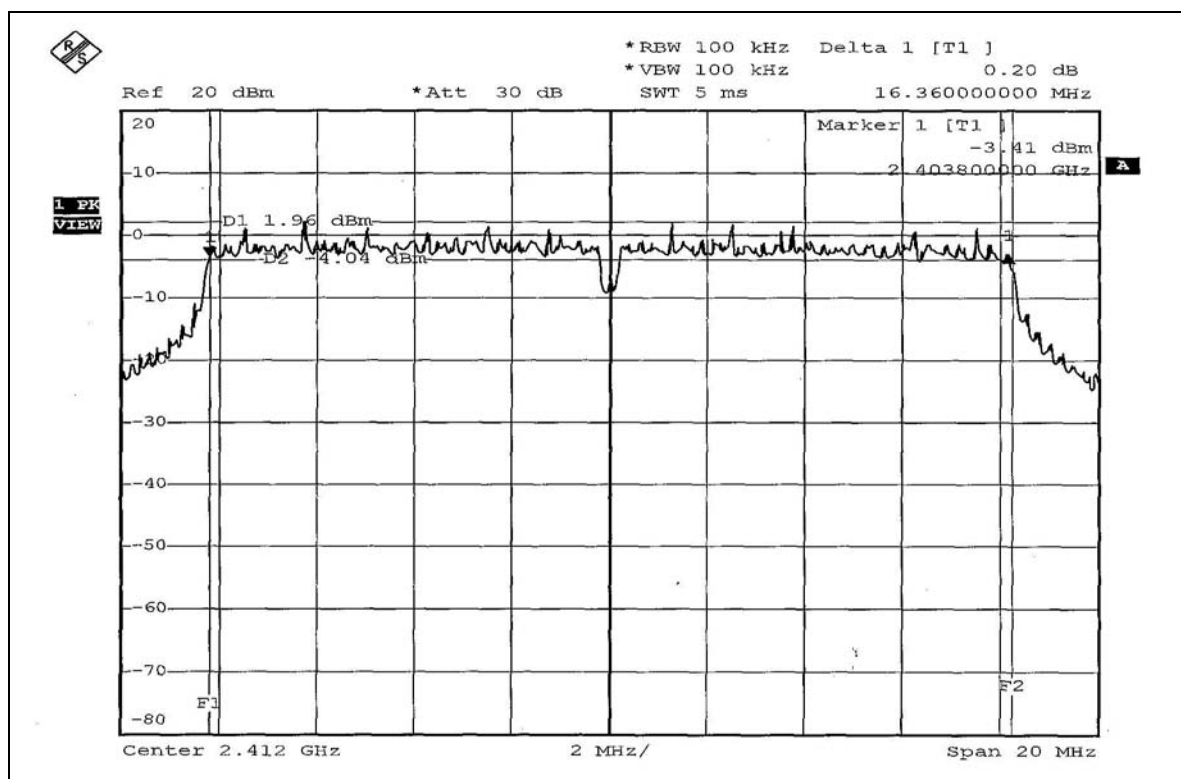


802.11g OFDM modulation

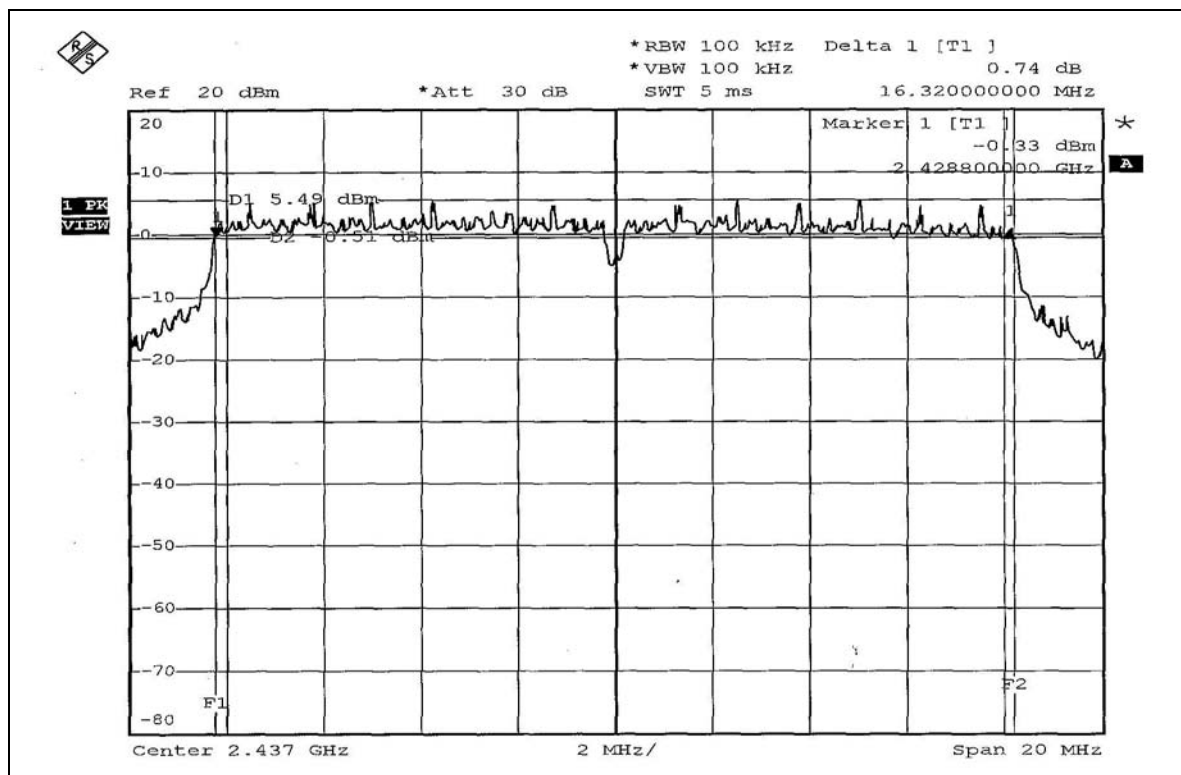
EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.36	0.5	PASS
6	2437	16.32	0.5	PASS
11	2462	16.36	0.5	PASS

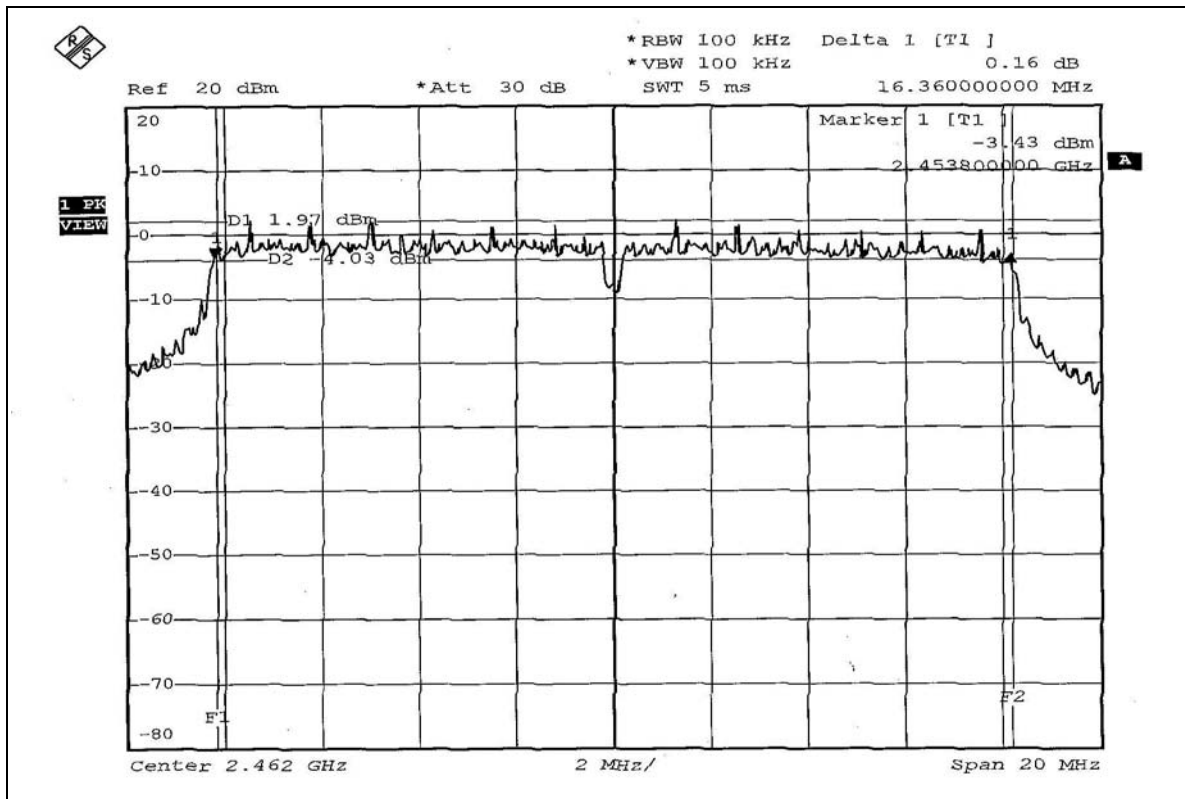
CH 1



CH 6



CH 11

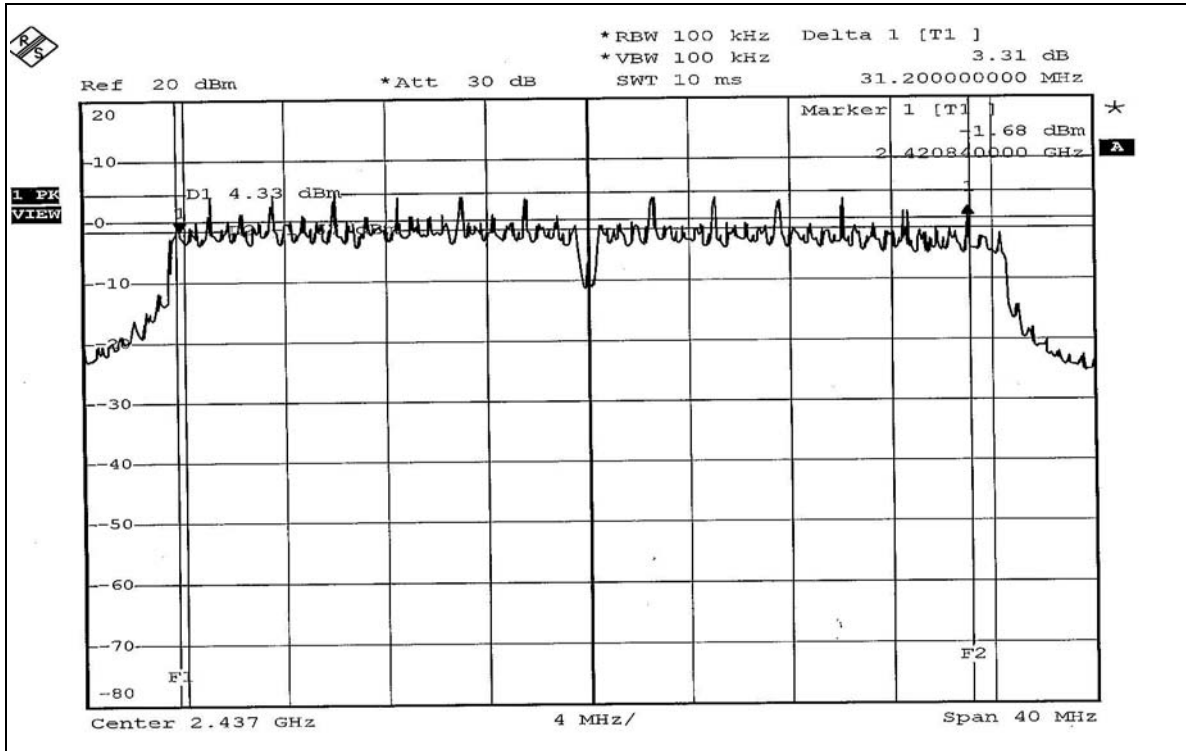


**802.11g Turbo OFDM modulation**

EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
6	2437	31.20	0.5	PASS

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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. 12, 2005
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2005
TEKTRONIX OSCILLOSCOPE	TDS 1012	C019167	Feb. 01, 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



4.4.4 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.3 TEST RESULTS

802.11b DSSS modulation

EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	64.565	18.10	30	PASS
6	2437	63.680	18.04	30	PASS
11	2462	65.013	18.13	30	PASS

802.11g OFDM modulation

EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	51.050	17.08	30	PASS
6	2437	81.283	19.10	30	PASS
11	2462	50.234	17.01	30	PASS

802.11g Turbo OFDM modulation

EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
6	2437	64.714	18.11	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. 12, 2005

NOTE:

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

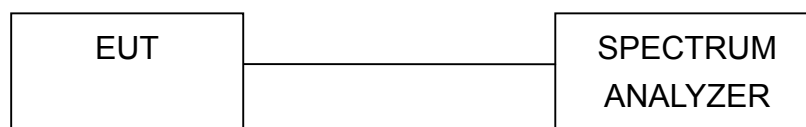
4.5.3 TEST PROCEDURE

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

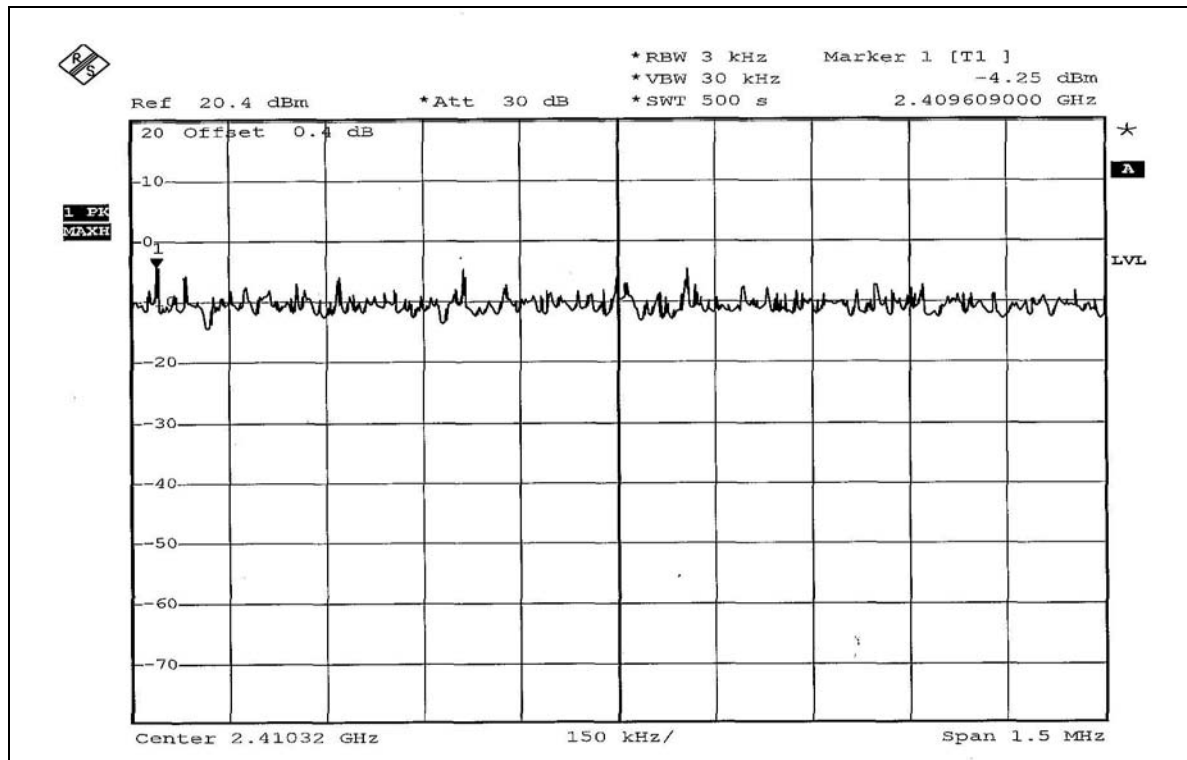
4.5.7 TEST RESULTS

802.11b DSSS modulation

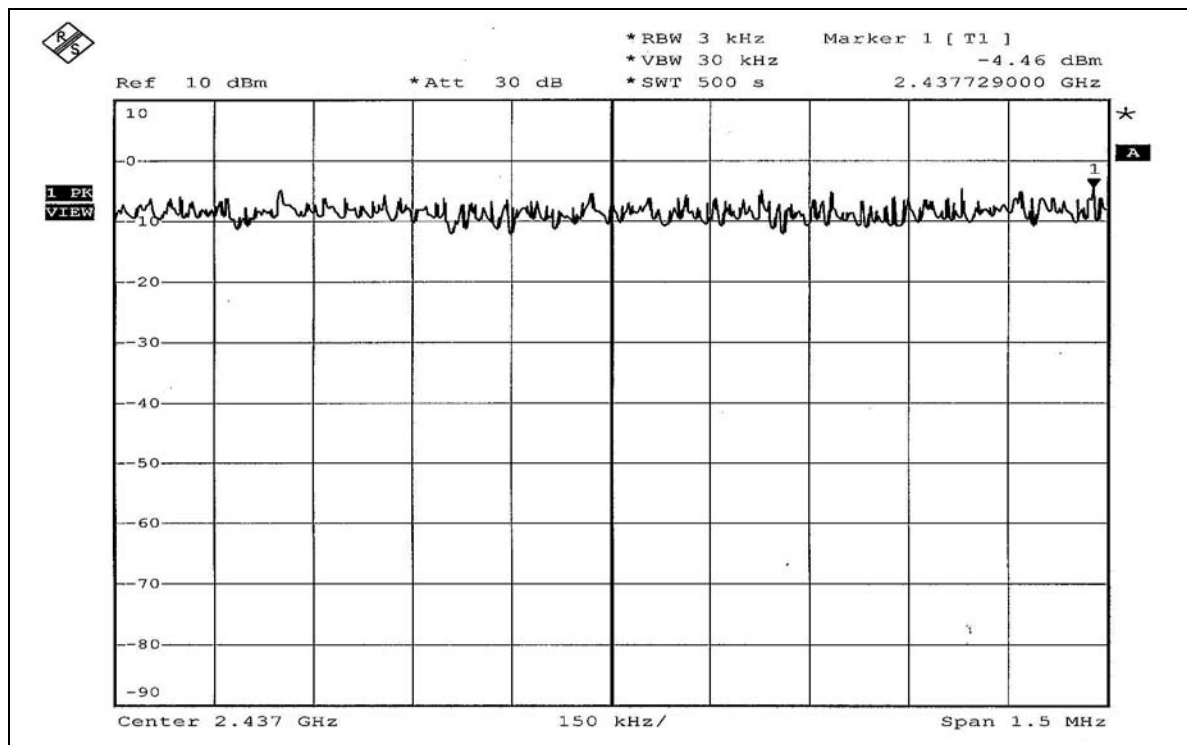
EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-4.25	8	PASS
6	2437	-4.46	8	PASS
11	2462	-4.20	8	PASS

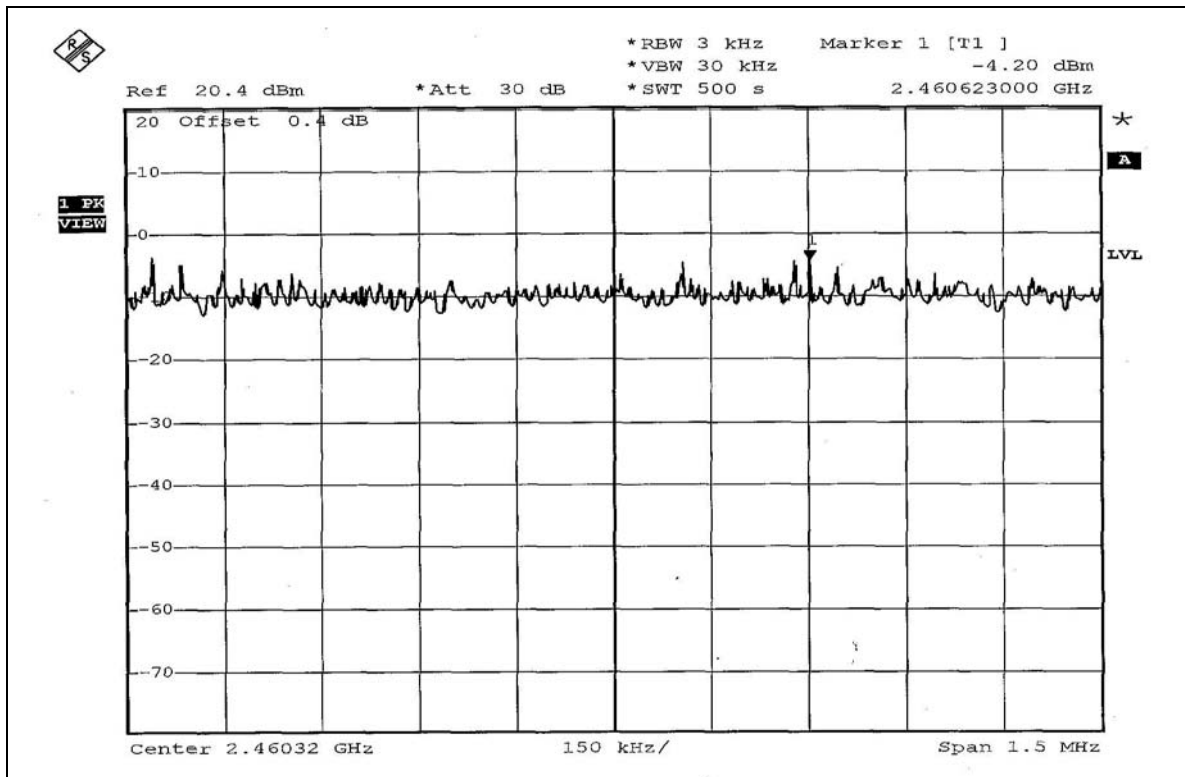
CH 1



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CH 11

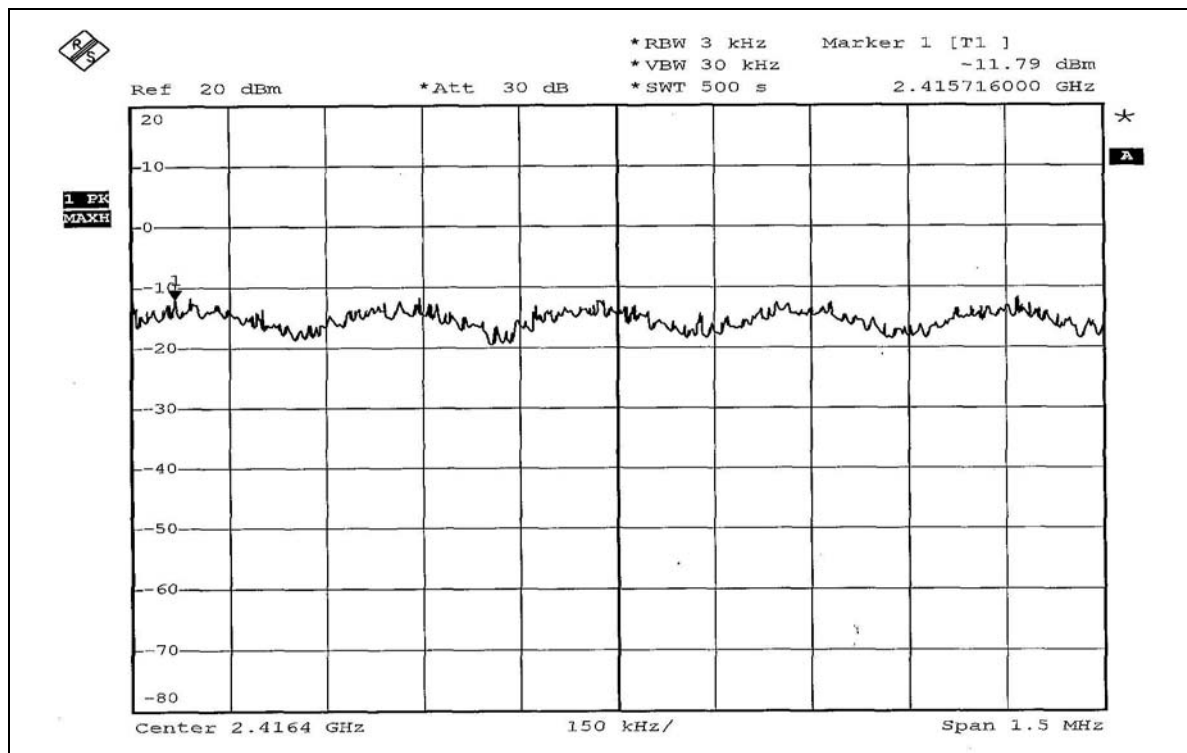


802.11g OFDM modulation

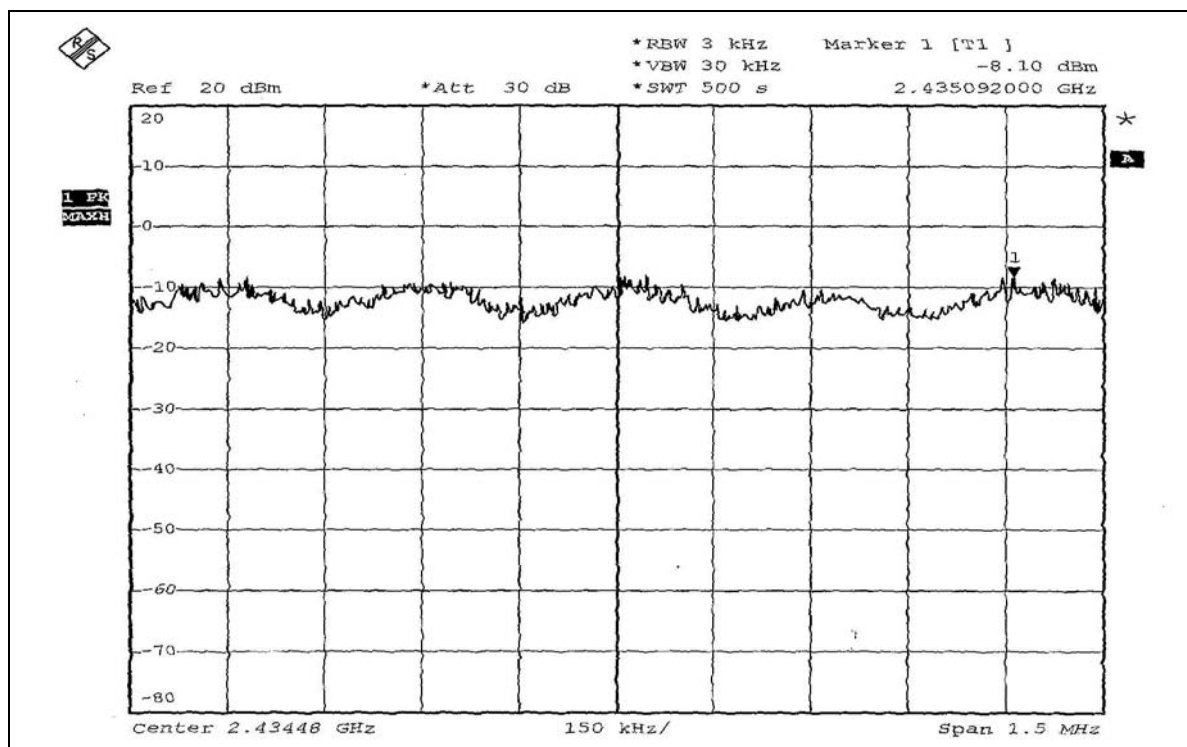
EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.79	8	PASS
6	2437	-8.10	8	PASS
11	2462	-11.40	8	PASS

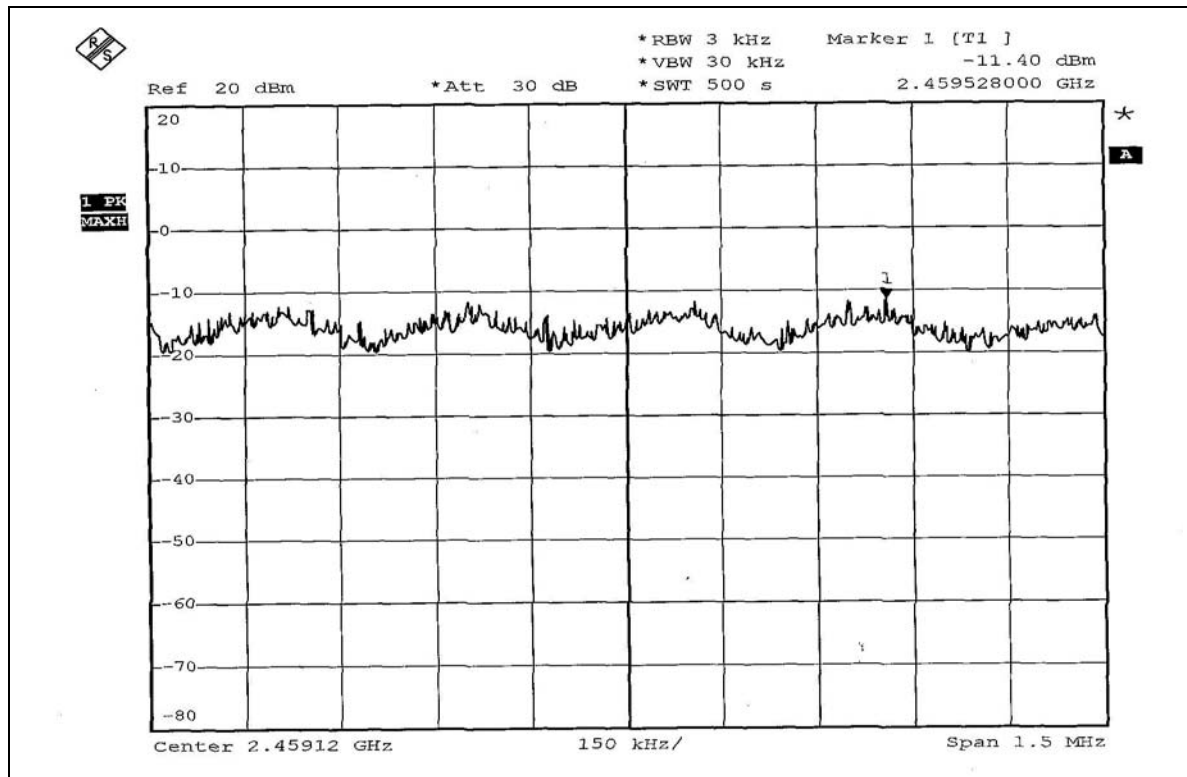
CH 1



CH 6



CH 11

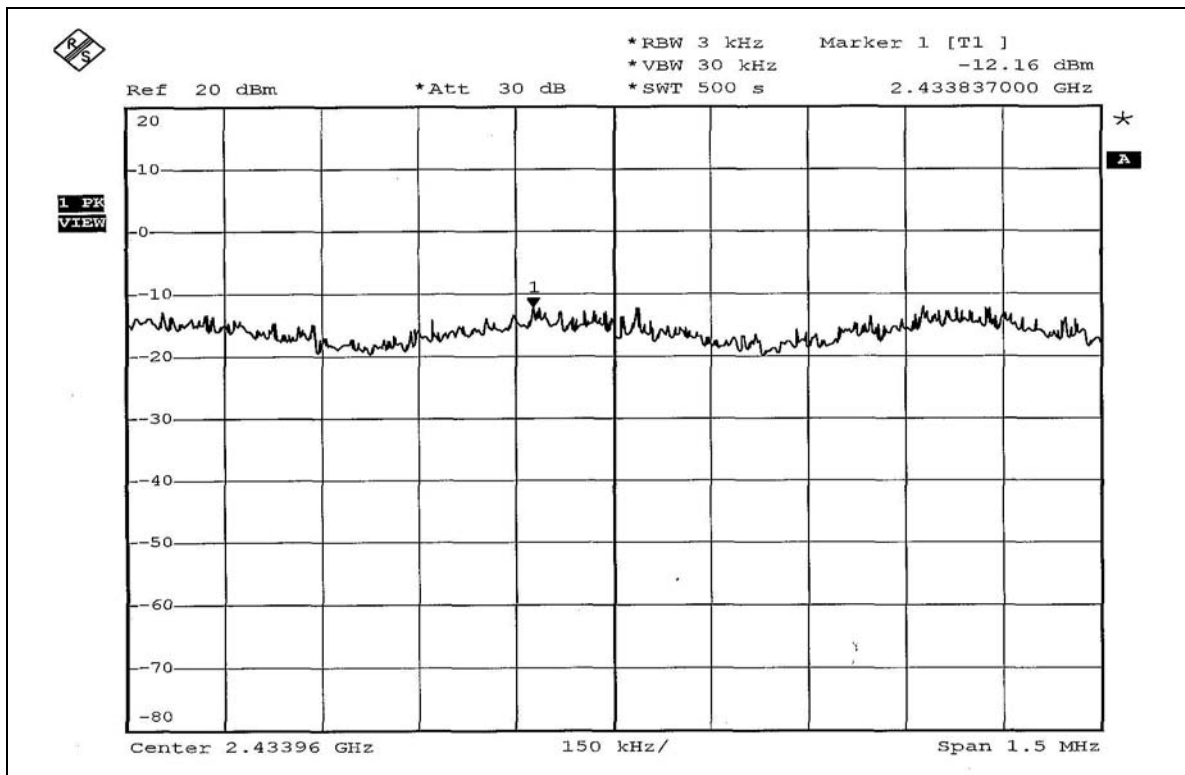


802.11g Turbo OFDM modulation

EUT	11a/b/g Wireless PCI Adapter	MODEL	SL-3055
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 63%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-12.16	8	PASS

CH 6



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. 12, 2005

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 loss 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 were measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz ; Average RBW=1MHz, VBW=10Hz) 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 18 images. D2 line indicates the highest level, and D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(d).

802.11b DSSS modulation

Antenna 1:

NOTE 1: The band edge emission plot on page 76 shows 52.34dBc between carrier maximum power and local maximum emission in restrict band (2.3867GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 113.19dBuV/m (Peak), so the maximum field strength in restrict band is $113.19 - 52.34 = 60.85$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on page 76 shows 57.66dBc between carrier maximum power and local maximum emission in restrict band (2.3864GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.38dBuV/m (Average), so the maximum field strength in restrict band is $106.38 - 57.66 = 48.72$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 77 shows 54.31dBc between carrier maximum power and local maximum emission in restrict band (2.4957GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 115.09dBuV/m (Peak), so the maximum field strength in restrict band is $115.09 - 54.31 = 60.78$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 78 shows 58.98dBc between carrier maximum power and local maximum emission in restrict band (2.4876GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 107.60dBuV/m (Average), so the maximum field strength in restrict band is $107.60 - 58.98 = 48.62$ dBuV/m which is under 54dBuV/m limit.

**Antenna 2:**

NOTE 1: The band edge emission plot on page 76 shows 52.34dBc between carrier maximum power and local maximum emission in restrict band (2.3867GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 113.74dBuV/m (Peak), so the maximum field strength in restrict band is $113.74 - 52.34 = 61.40$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on page 76 shows 57.66dBc between carrier maximum power and local maximum emission in restrict band (2.3864GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.93dBuV/m (Average), so the maximum field strength in restrict band is $105.93 - 57.66 = 48.27$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 77 shows 54.31dBc between carrier maximum power and local maximum emission in restrict band (2.4957GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 114.10dBuV/m (Peak), so the maximum field strength in restrict band is $114.10 - 54.31 = 59.79$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 78 shows 58.98dBc between carrier maximum power and local maximum emission in restrict band (2.4876GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.23dBuV/m (Average), so the maximum field strength in restrict band is $106.23 - 58.98 = 47.25$ dBuV/m which is under 54dBuV/m limit.

802.11g OFDM modulation

Antenna 1:

NOTE 1: The band edge emission plot on page 79 shows 47.29dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.27dBuV/m (Peak), so the maximum field strength in restrict band is $110.27 - 47.29 = 62.98$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on page 79 shows 50.16dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 100.07dBuV/m (Average), so the maximum field strength in restrict band is $100.07 - 50.16 = 49.91$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 80 shows 46.78dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 110.86dBuV/m (Peak), so the maximum field strength in restrict band is $110.86 - 46.78 = 64.08$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 81 shows 50.75dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.52dBuV/m (Average), so the maximum field strength in restrict band is $101.52 - 50.75 = 50.77$ dBuV/m which is under 54dBuV/m limit.

**Antenna 2:**

NOTE 1: The band edge emission plot on page 79 shows 47.29dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.73dBuV/m (Peak), so the maximum field strength in restrict band is $110.73 - 47.29 = 63.44$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on page 79 shows 50.16dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 100.67dBuV/m (Average), so the maximum field strength in restrict band is $100.67 - 50.16 = 50.51$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 80 shows 46.78dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 111.10dBuV/m (Peak), so the maximum field strength in restrict band is $111.10 - 46.78 = 64.32$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 81 shows 50.75dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.80dBuV/m (Average), so the maximum field strength in restrict band is $101.80 - 50.75 = 51.05$ dBuV/m which is under 54dBuV/m limit.



802.11g Turbo OFDM modulation

Antenna 1:

NOTE 1: The band edge emission plot on page 82 shows 48.97dBc between carrier maximum power and local maximum emission in restrict band (2.3839GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 109.65dBuV/m (Peak), so the maximum field strength in restrict band is $109.65 - 48.97 = 60.68$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on page 82 shows 47.27dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 100.74dBuV/m (Average), so the maximum field strength in restrict band is $100.74 - 47.27 = 53.47$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 83 shows 49.93dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 109.65dBuV/m (Peak), so the maximum field strength in restrict band is $109.65 - 49.93 = 59.72$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 84 shows 48.70dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 100.74dBuV/m (Average), so the maximum field strength in restrict band is $100.74 - 48.70 = 52.04$ dBuV/m which is under 54dBuV/m limit.

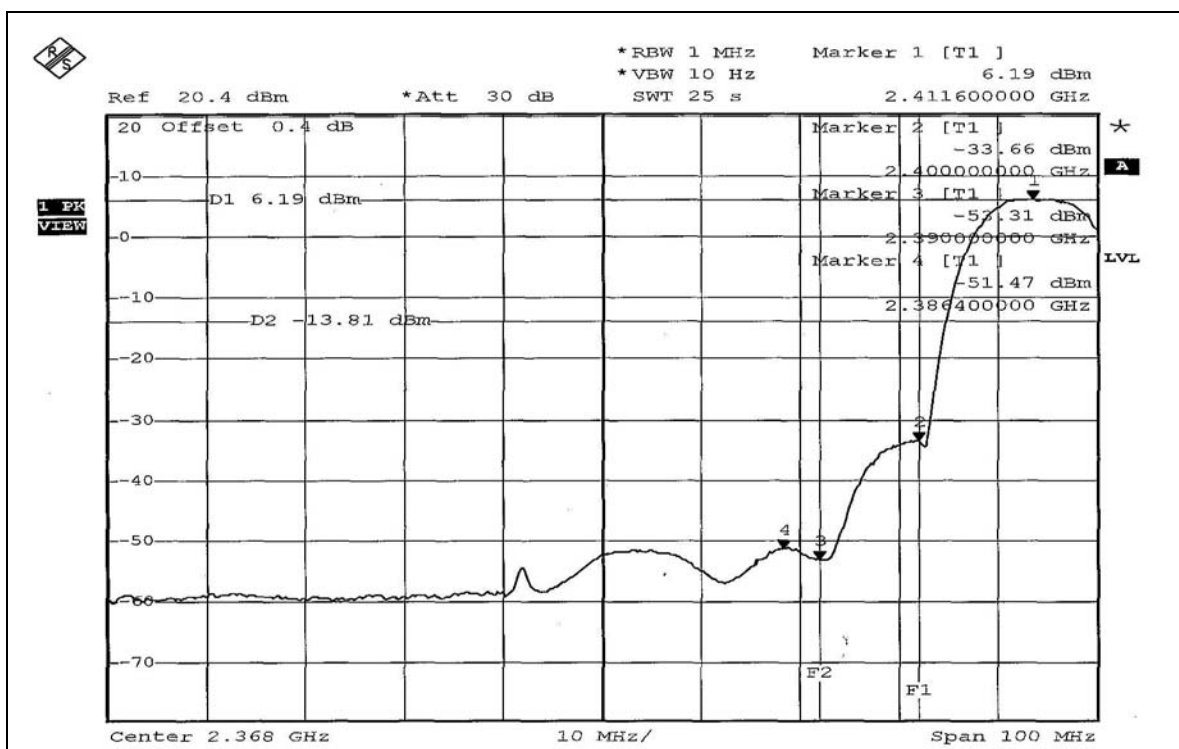
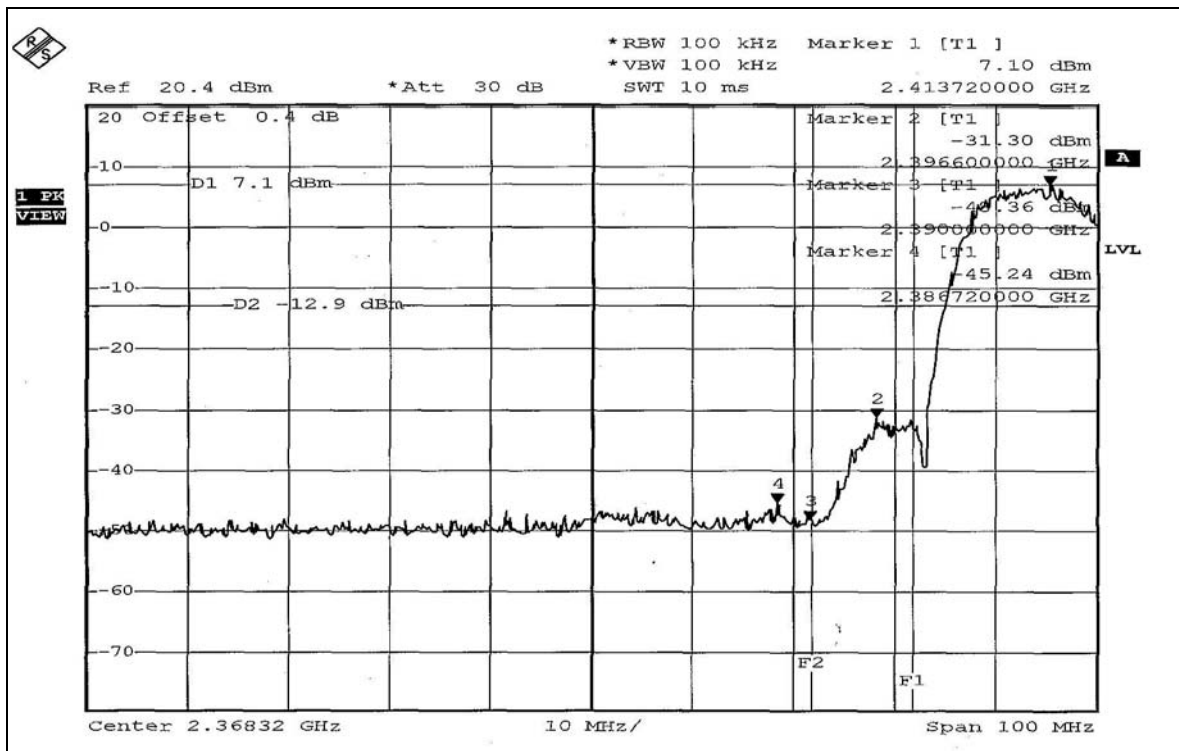
**Antenna 2:**

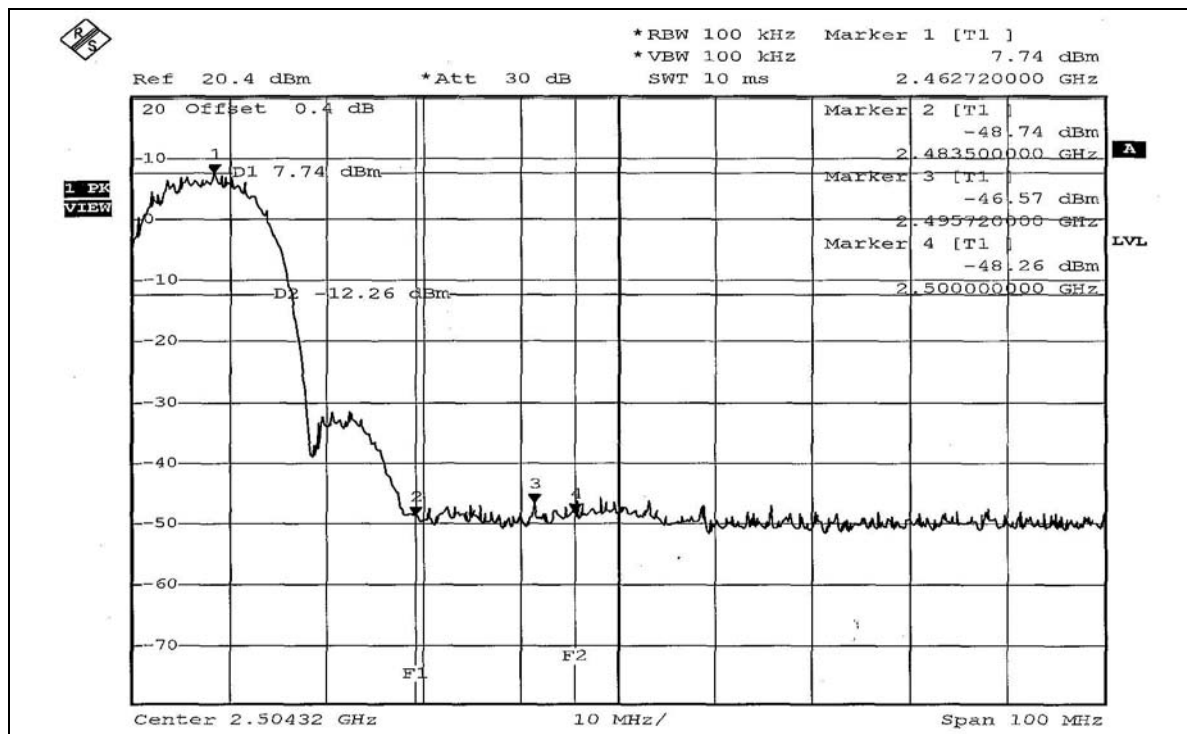
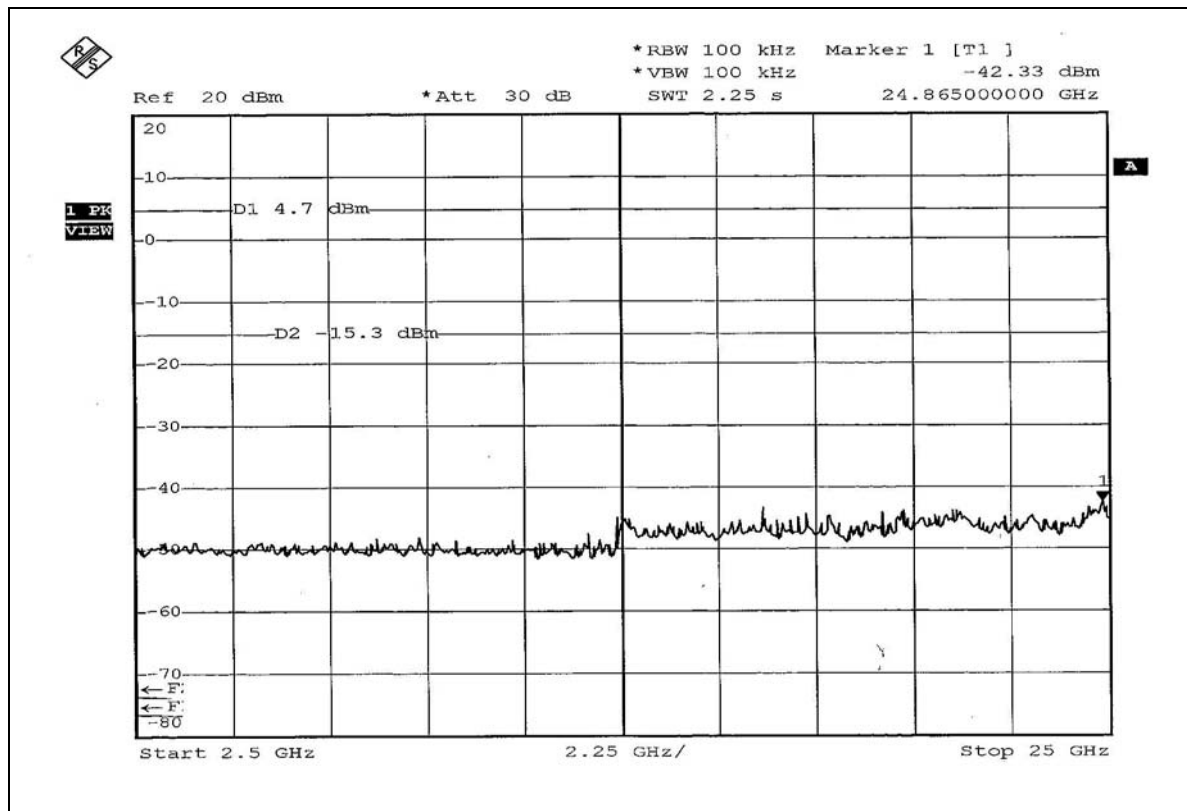
NOTE 1: The band edge emission plot on page 82 shows 48.97dBc between carrier maximum power and local maximum emission in restrict band (2.3839GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 109.45dBuV/m (Peak), so the maximum field strength in restrict band is $109.45 - 48.97 = 60.48$ dBuV/m which is under 74dBuV/m limit.

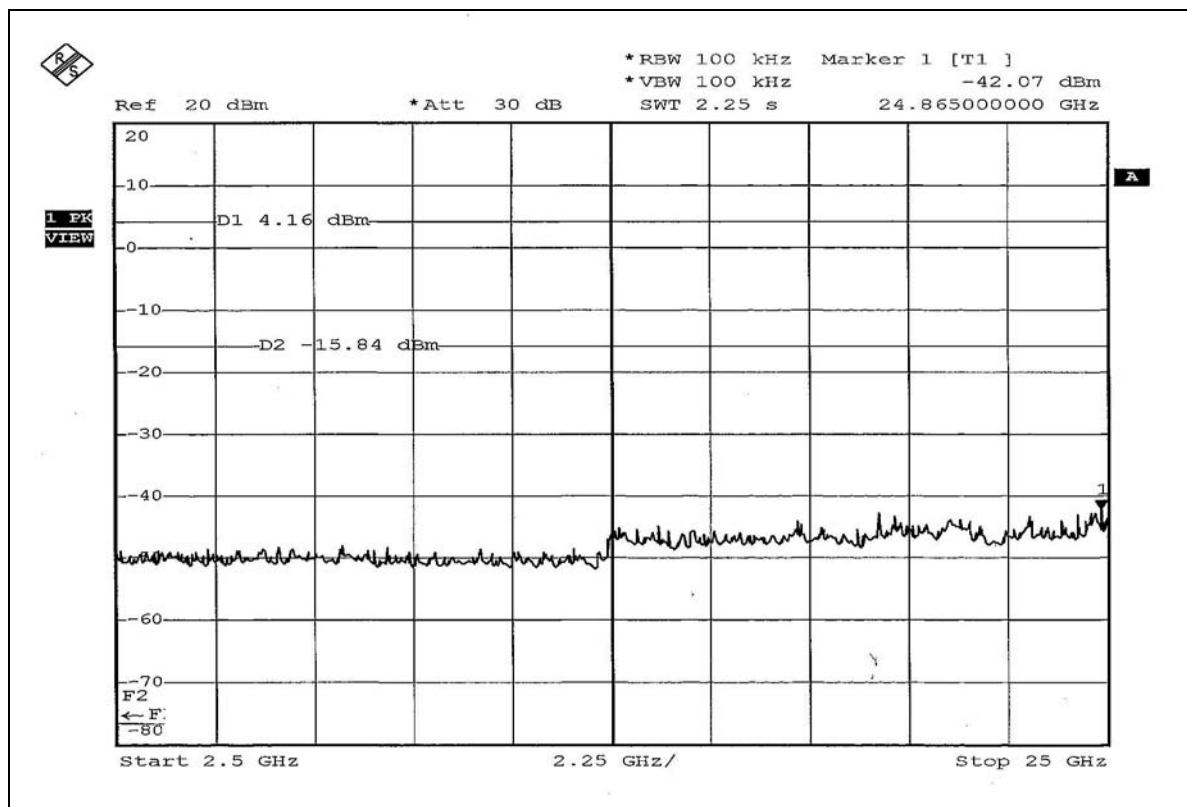
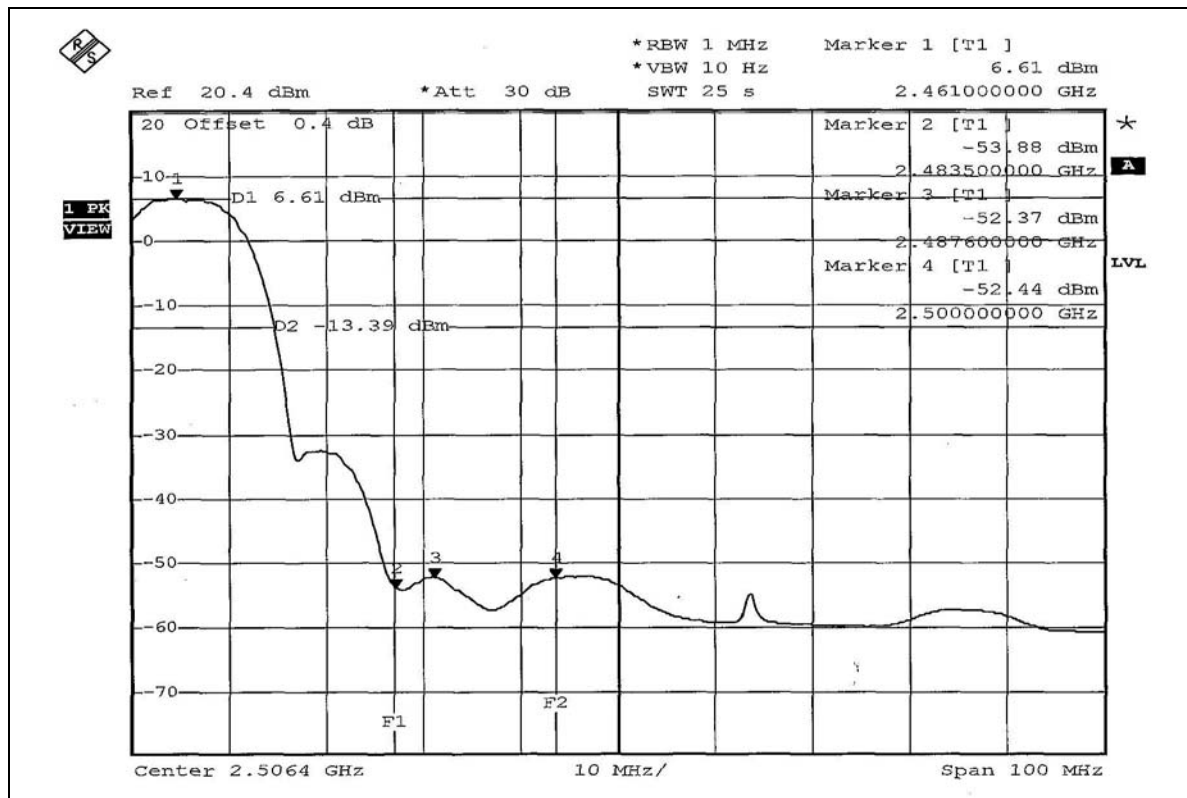
The band edge emission plot of on page 82 shows 47.27dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 100.12dBuV/m (Average), so the maximum field strength in restrict band is $100.12 - 47.27 = 52.85$ dBuV/m which is under 54dBuV/m limit.

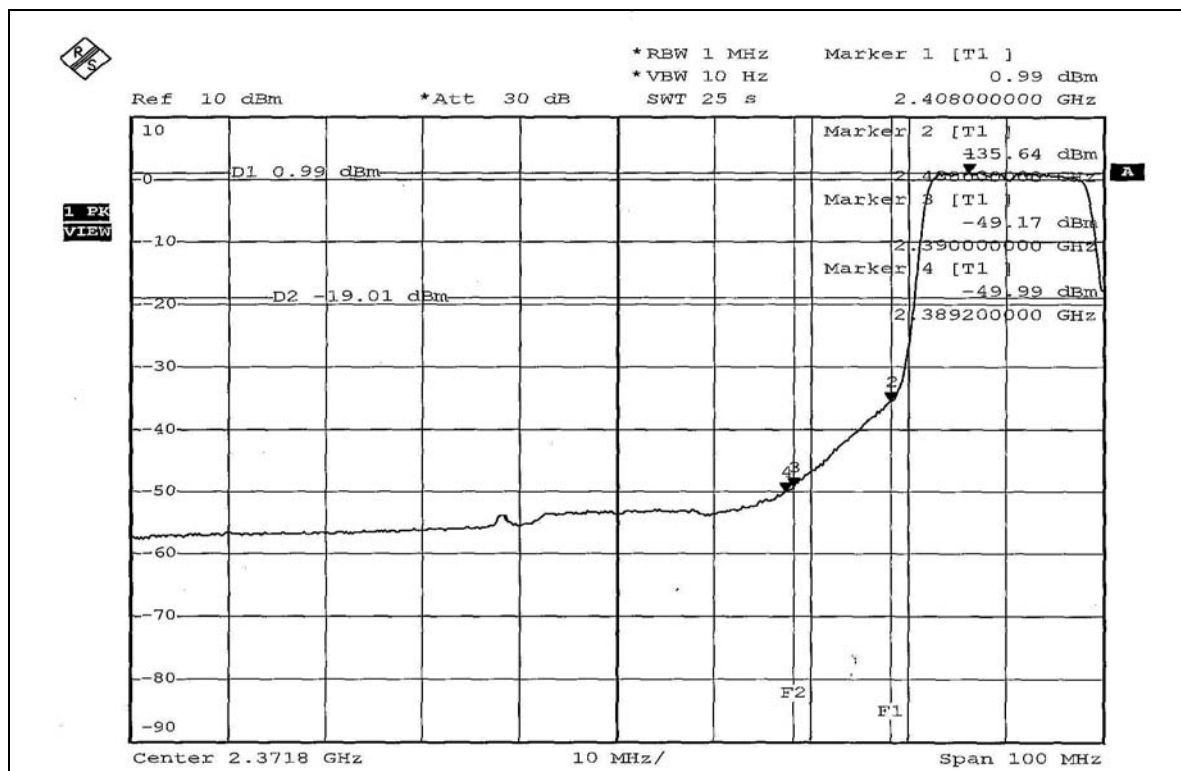
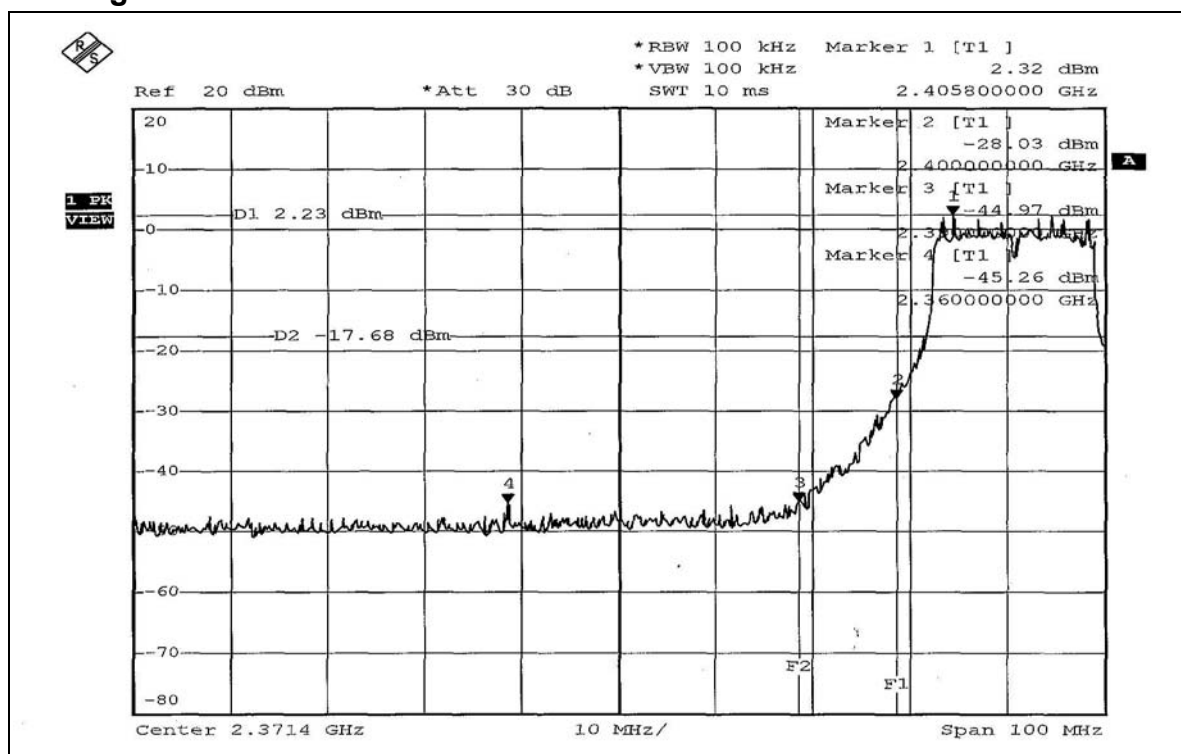
NOTE 2: The band edge emission plot on page 83 shows 49.93dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 109.45dBuV/m (Peak), so the maximum field strength in restrict band is $109.45 - 49.93 = 59.52$ dBuV/m which is under 74dBuV/m limit.

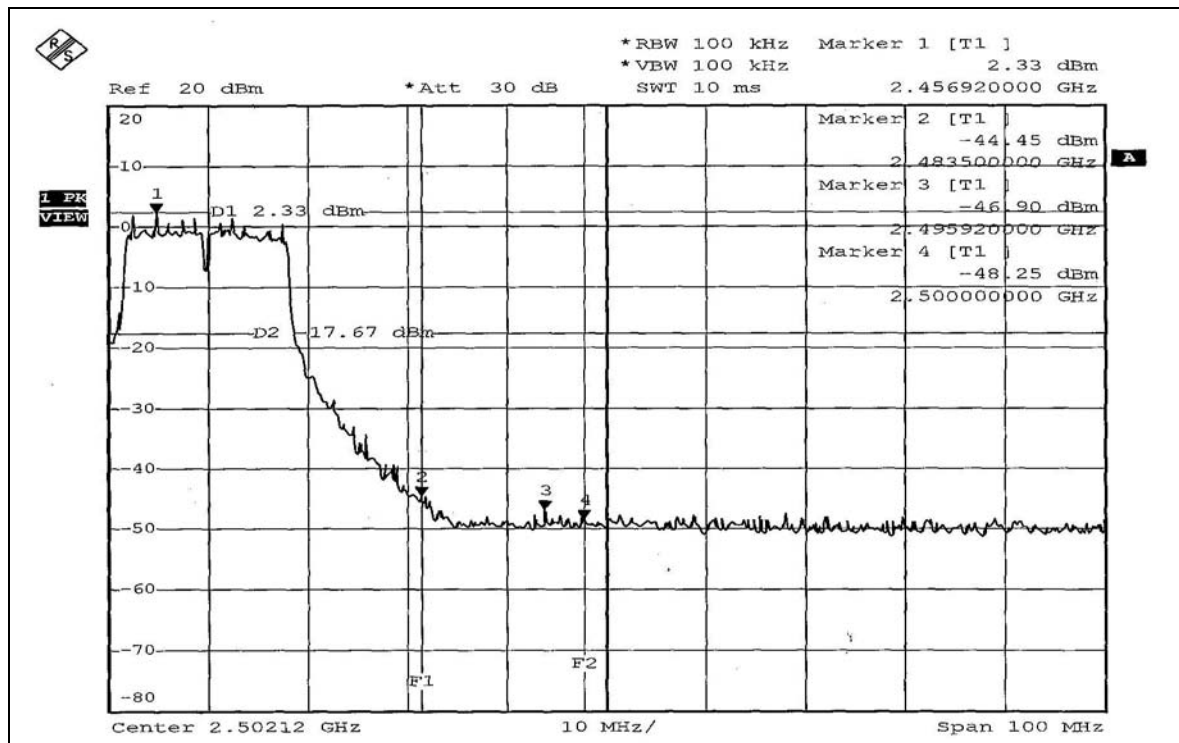
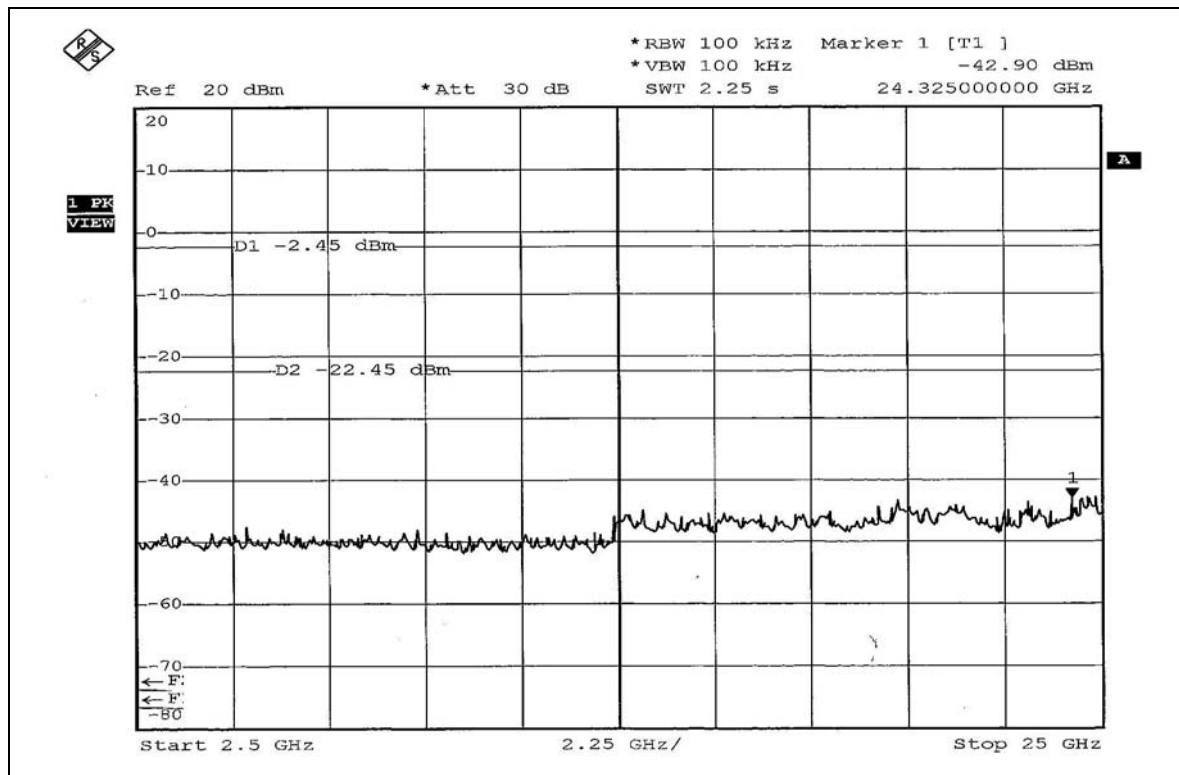
The band edge emission plot on page 84 shows 48.70dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 100.12dBuV/m (Average), so the maximum field strength in restrict band is $100.12 - 48.70 = 51.42$ dBuV/m which is under 54dBuV/m limit.

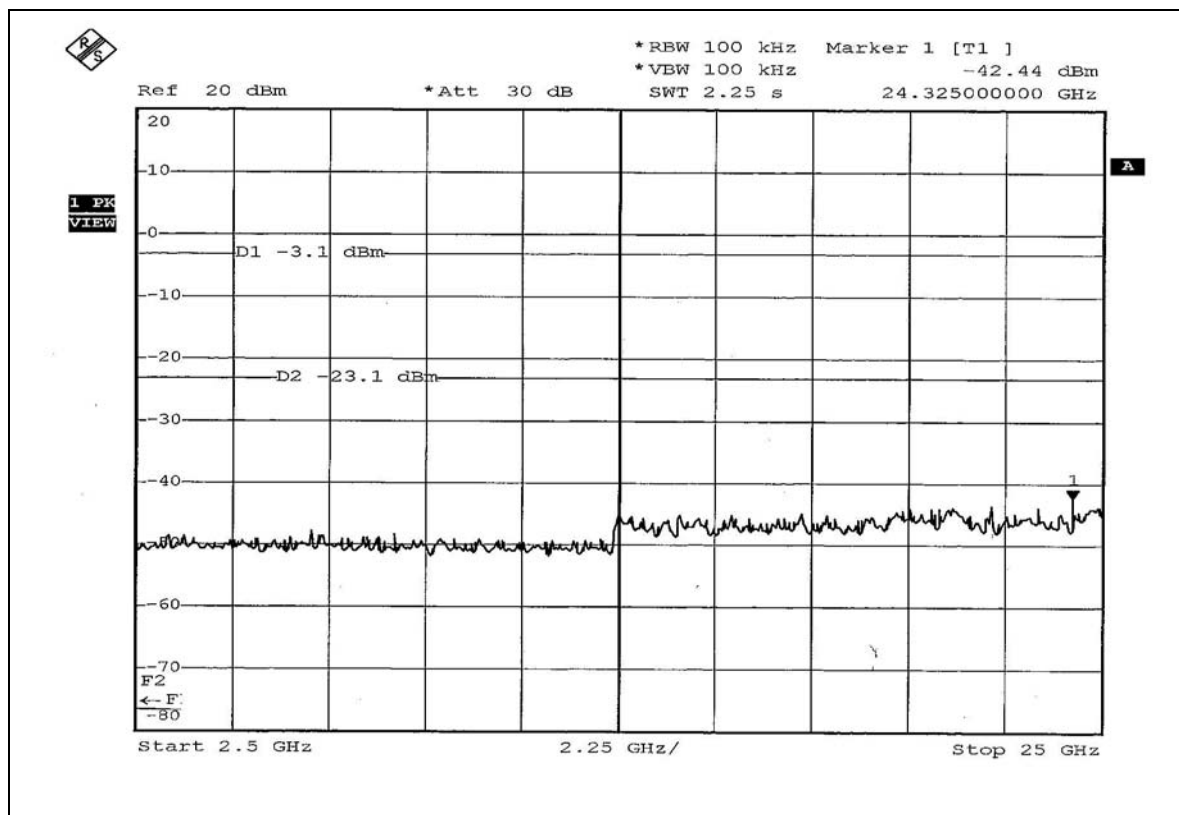
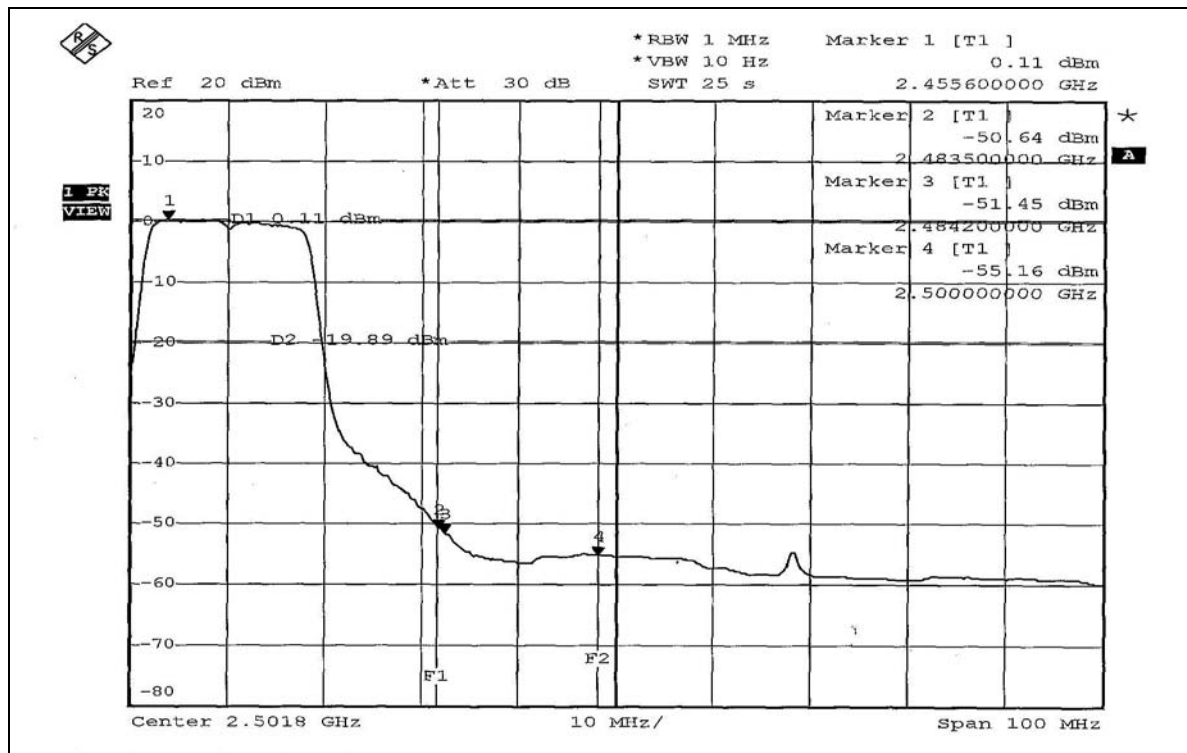
802.11b DSSS modulation



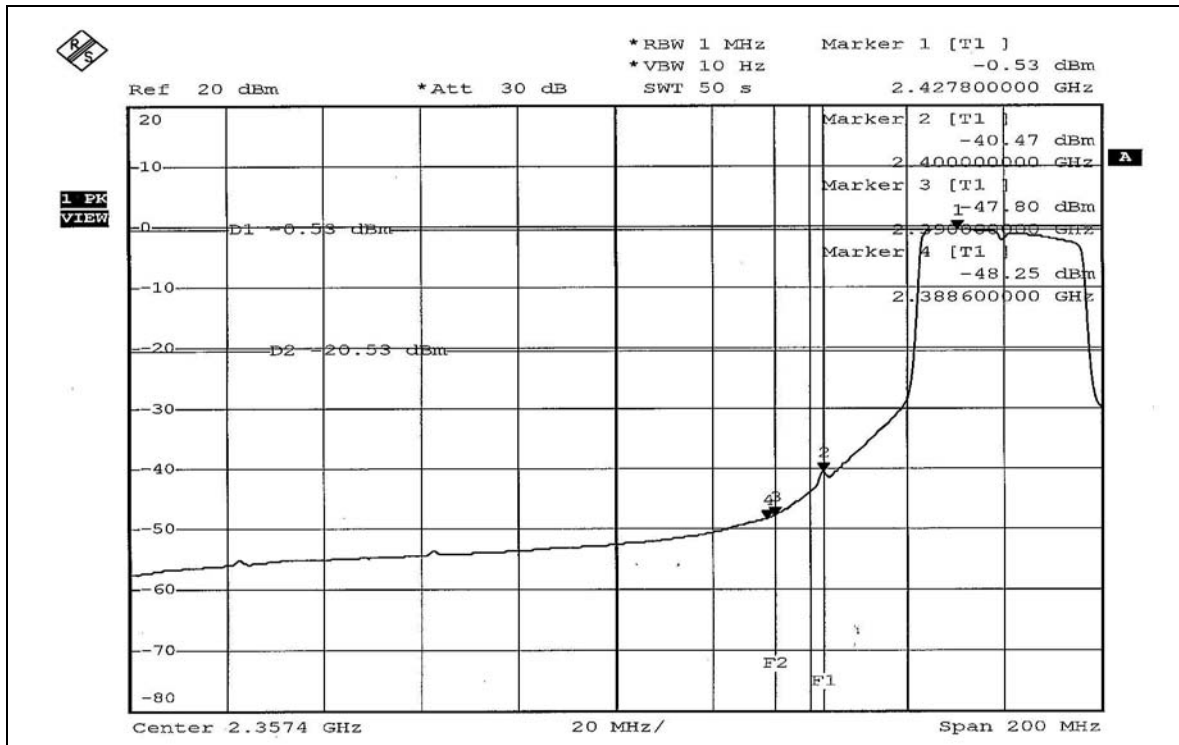
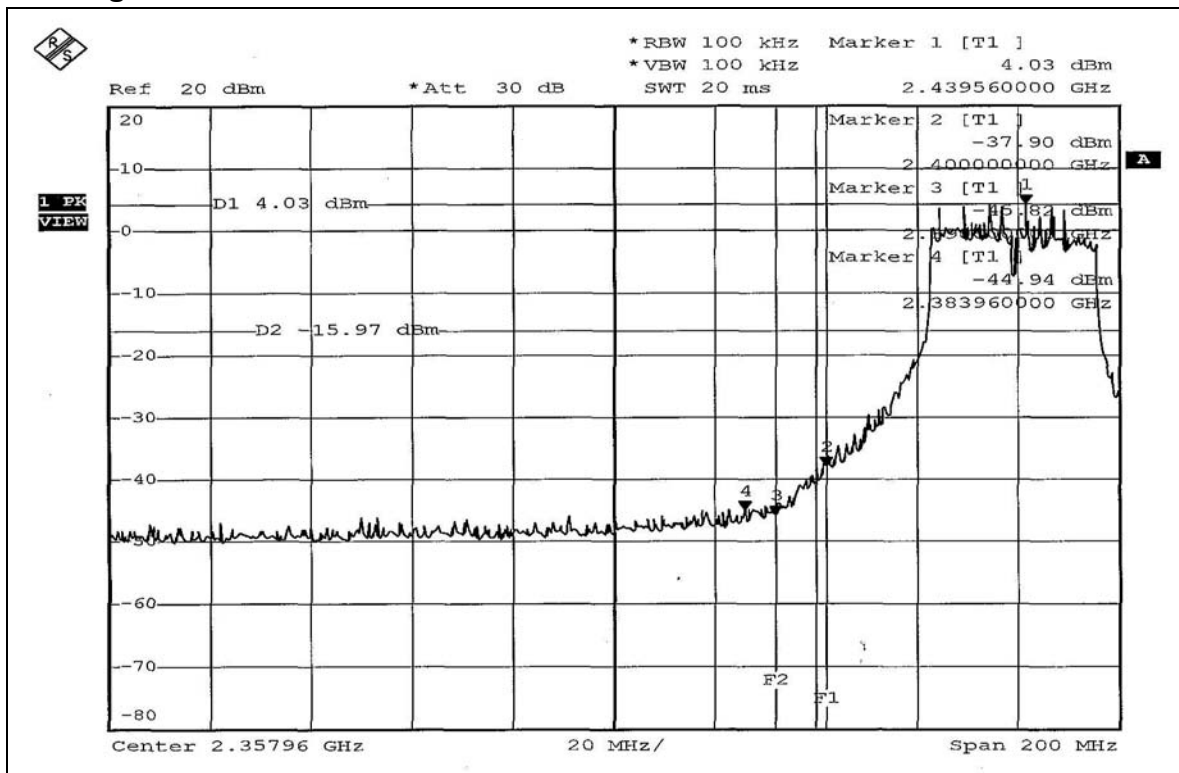


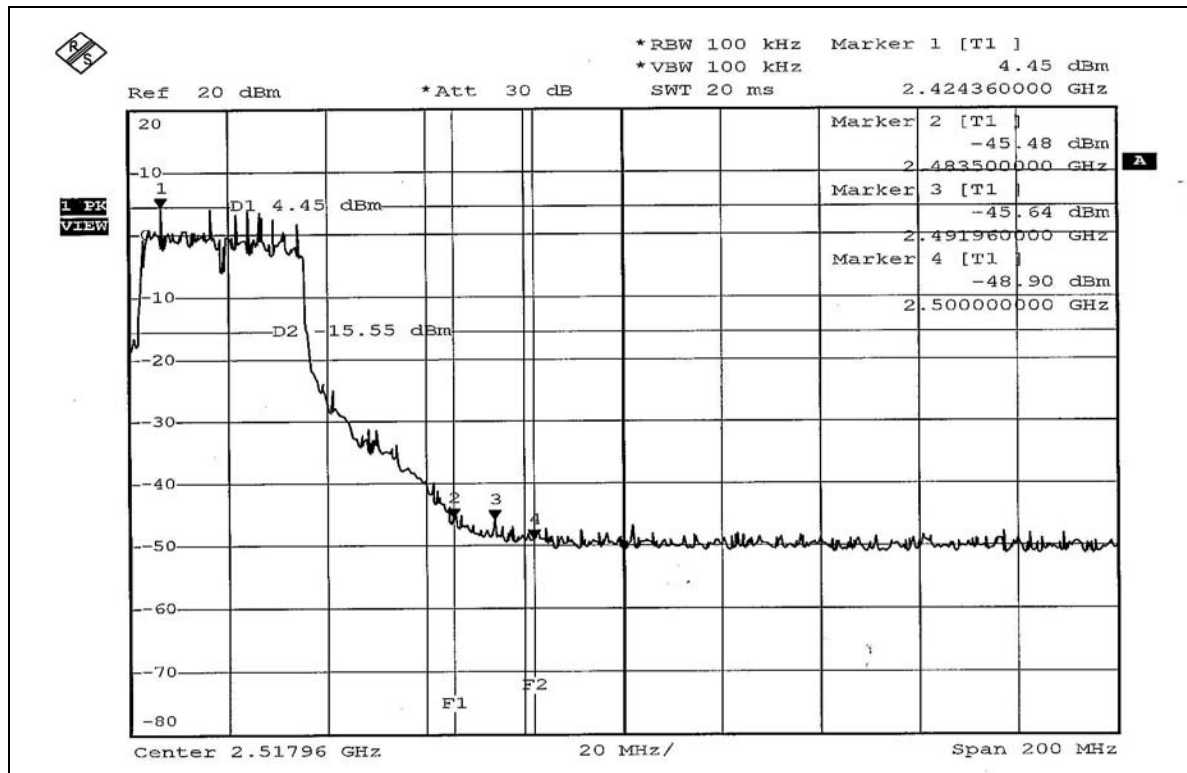
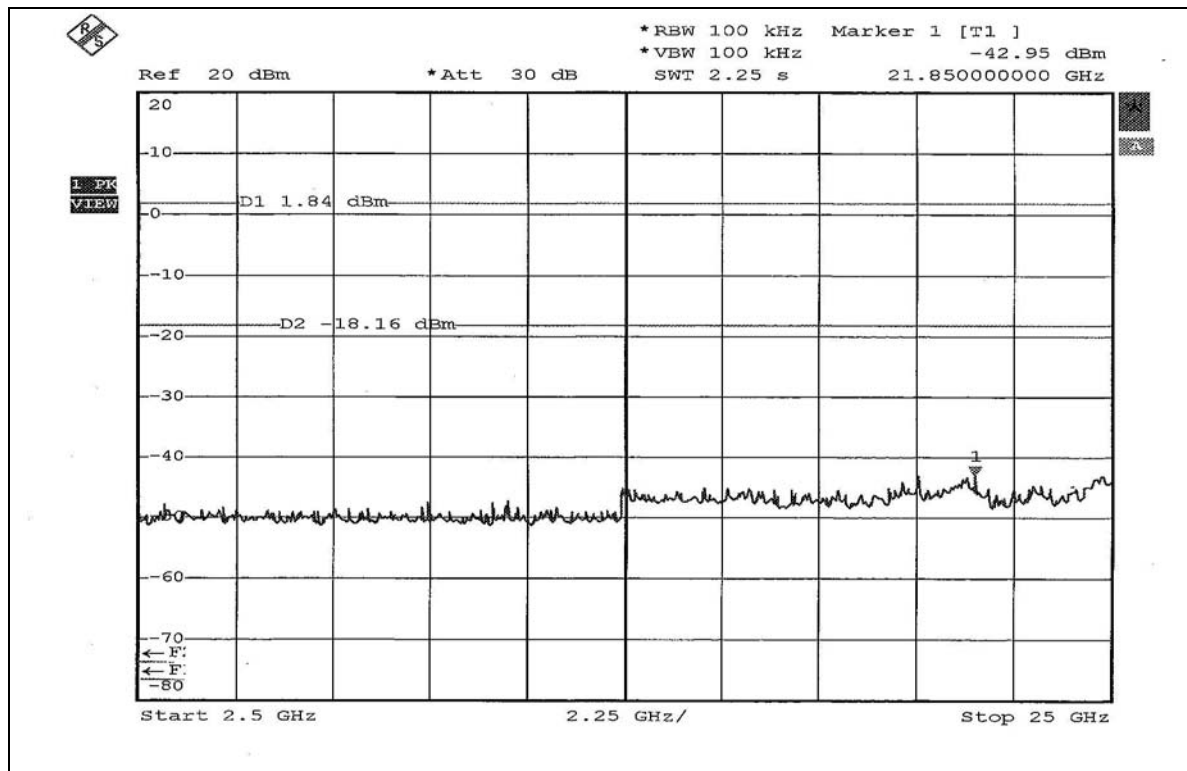
802.11g OFDM modulation

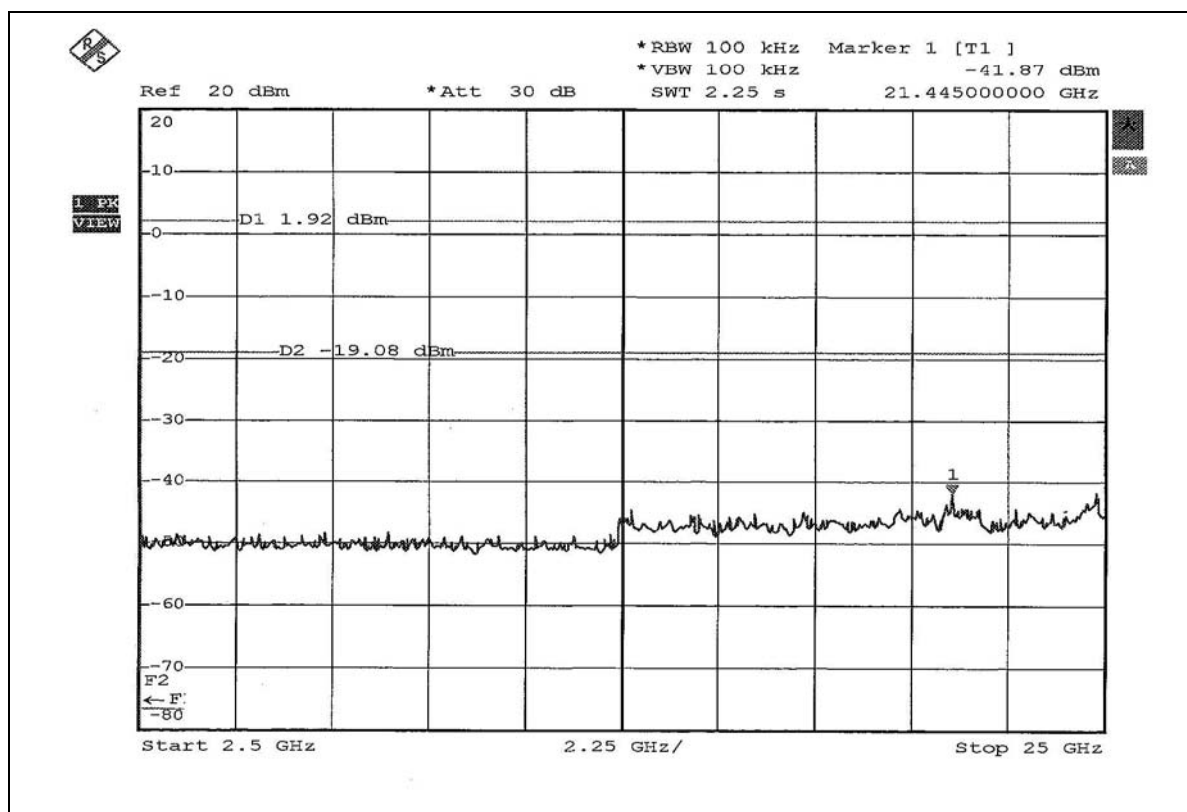
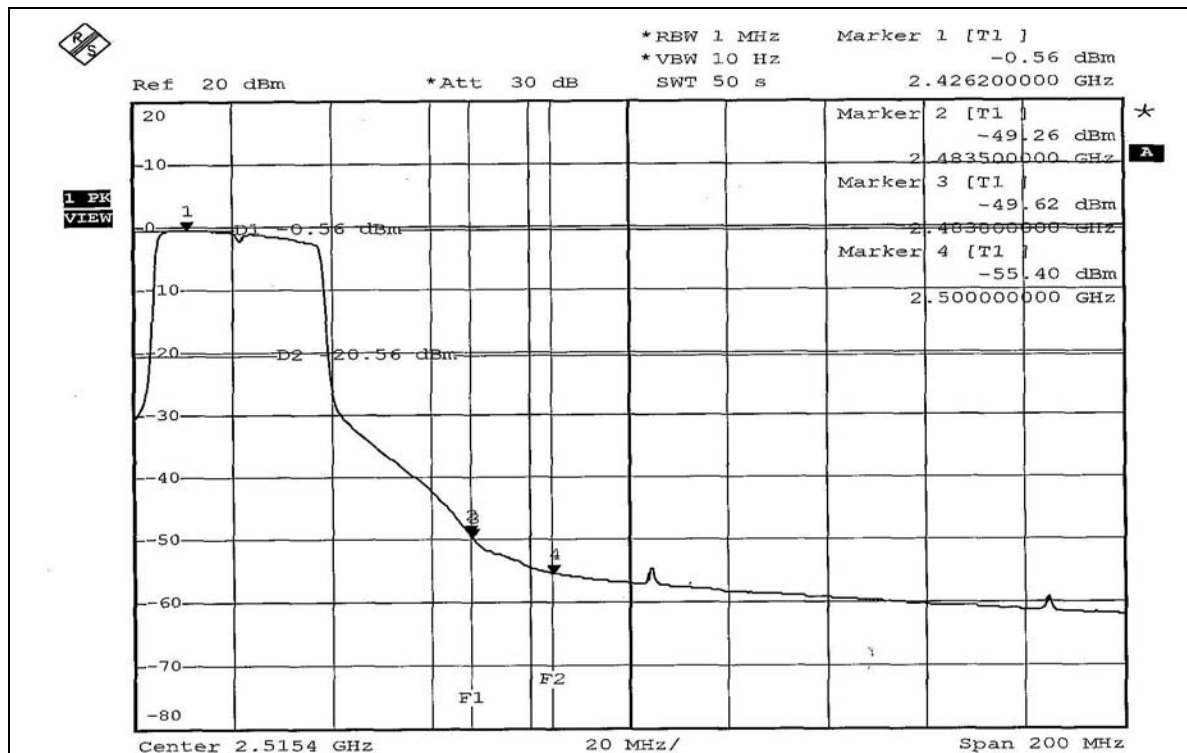




802.11g Turbo OFDM modulation









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 Dipole antenna with Reverse SMA connector. The maximum Gain of the antenna is 1.5dBi.

5. TEST TYPES AND RESULTS (802.11a 5725~5850MHz Band)

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

- NOTE:**
- The lower limit shall apply at the transition frequencies.
 - The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 - 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.

5.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 16, 2005
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 09, 2006
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 15, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 15, 2006
Software ADT	ADT_Cond_V3	NA	NA

- NOTE:**
- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 - The test was performed in HwaYa Shielded Room 1.
 - The VCCI Site Registration No. is C-2040.



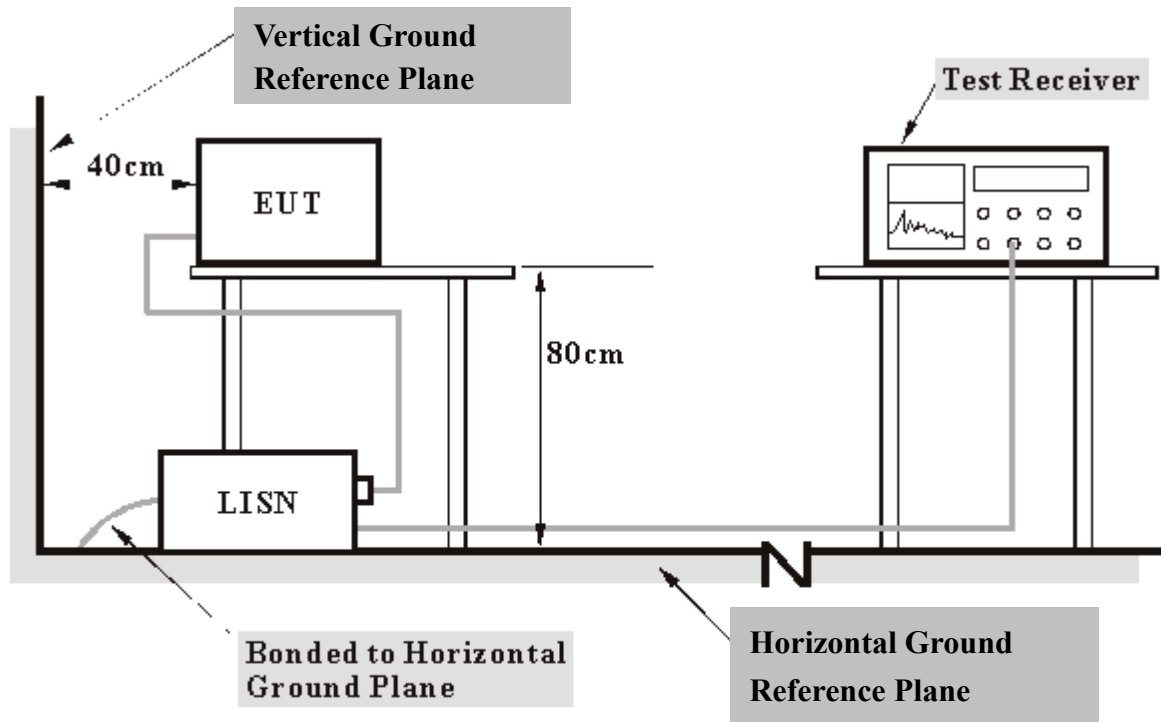
5.1.3 TEST PROCEDURES

- 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.

5.1.4 DEVIATION FROM TEST STANDARD

No deviation

5.1.5 TEST SETUP



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

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

5.1.6 EUT OPERATING CONDITIONS

Same as 4.1.6

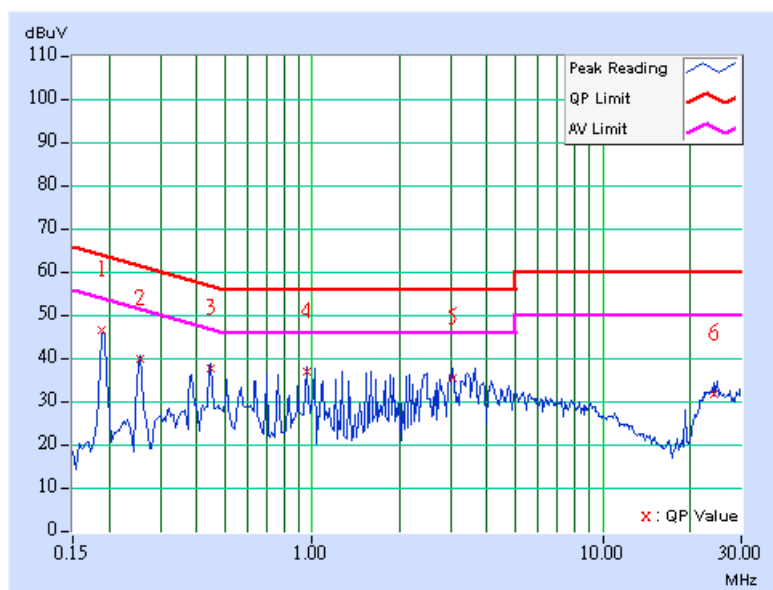
5.1.7 TEST RESULTS

Conducted Worst-Case Data

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	PHASE	Line 1
CHANNEL	Channel 3	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.11	45.22	-	45.33	-	64.08	54.08	-18.75	-
2	0.255	0.11	38.63	-	38.74	-	61.58	51.58	-22.84	-
3	0.447	0.12	36.60	-	36.72	-	56.93	46.93	-20.21	-
4	0.955	0.23	35.86	-	36.09	-	56.00	46.00	-19.91	-
5	3.055	0.33	34.17	-	34.50	-	56.00	46.00	-21.50	-
6	24.133	1.29	30.71	-	32.00	-	60.00	50.00	-28.00	-

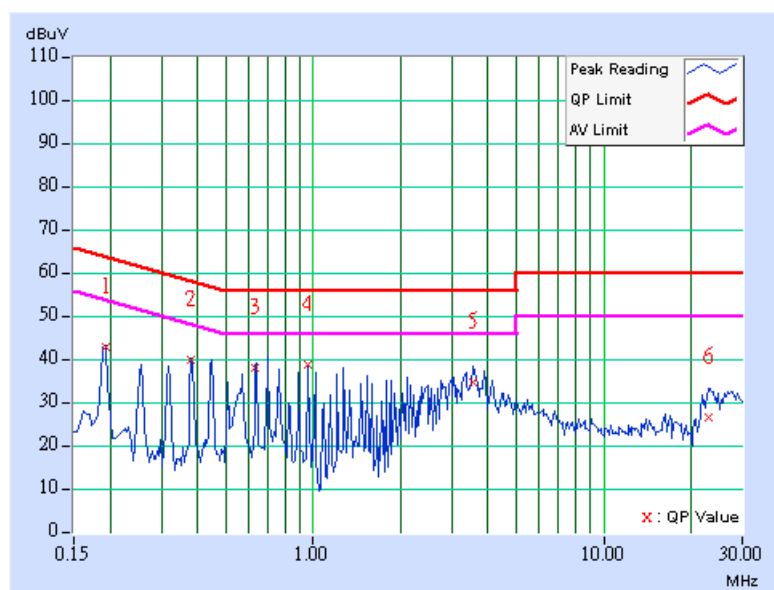
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	PHASE	Line 2
CHANNEL	Channel 3	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.11	42.33	-	42.44	-	63.91	53.91	-21.47	-
2	0.380	0.11	39.11	-	39.22	-	58.27	48.27	-19.05	-
3	0.634	0.16	37.51	-	37.67	-	56.00	46.00	-18.33	-
4	0.955	0.23	38.10	-	38.33	-	56.00	46.00	-17.67	-
5	3.563	0.36	33.89	-	34.25	-	56.00	46.00	-21.75	-
6	22.862	0.80	25.98	-	26.78	-	60.00	50.00	-33.22	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 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.





5.2 RADIATED EMISSION MEASUREMENT

5.2.1 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.



5.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Dec. 19, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Jan. 22, 2006
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Jan. 16, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2006
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Feb. 17, 2006
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Feb. 17, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	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 1.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC4924-2.



5.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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 10dB 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

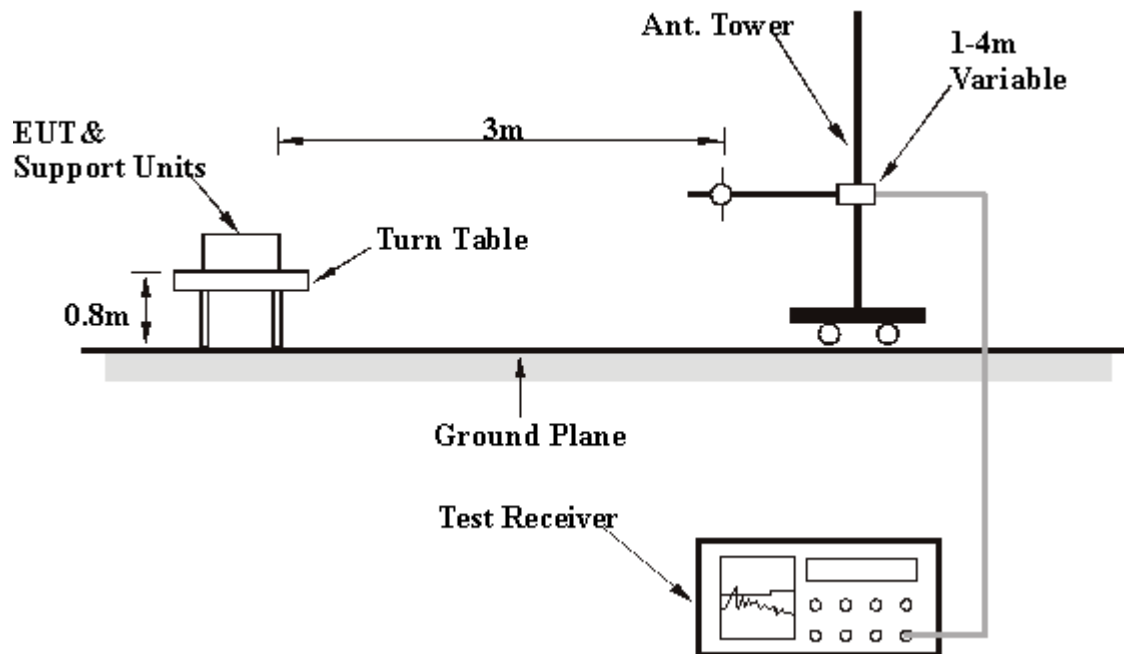
NOTE:

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 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

5.2.4 DEVIATION FROM TEST STANDARD

No deviation

5.2.5 TEST SETUP



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

5.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

5.2.7 TEST RESULTS

Below 1GHz Worst-Case Data (Antenna 1)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 3	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	99.98	32.42 QP	43.50	-11.08	1.50 H	82	21.67	10.74
2	168.02	29.57 QP	43.50	-13.93	1.50 H	253	15.69	13.88
3	236.05	33.39 QP	46.00	-12.61	1.50 H	193	20.73	12.66
4	311.86	34.53 QP	46.00	-11.47	1.00 H	112	19.93	14.60
5	370.18	32.64 QP	46.00	-13.36	1.00 H	223	16.70	15.94
6	405.17	35.97 QP	46.00	-10.03	1.00 H	112	19.20	16.77
7	438.22	38.43 QP	46.00	-7.57	1.00 H	43	20.82	17.61
8	473.21	38.10 QP	46.00	-7.90	1.00 H	289	19.87	18.22
9	506.25	34.29 QP	46.00	-11.71	1.50 H	136	15.58	18.71
10	537.35	38.26 QP	46.00	-7.74	1.50 H	127	18.91	19.35
11	574.29	38.06 QP	46.00	-7.94	1.50 H	118	17.82	20.23
12	671.48	34.29 QP	46.00	-11.71	1.00 H	64	12.42	21.87
13	768.68	36.05 QP	46.00	-9.95	1.00 H	130	12.53	23.52
14	805.61	37.01 QP	46.00	-8.99	1.00 H	118	13.26	23.75

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

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 3	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	438.22	35.92 QP	46.00	-10.08	1.00 V	169	18.31	17.61
2	473.21	36.87 QP	46.00	-9.13	1.00 V	217	18.64	18.22
3	506.25	35.67 QP	46.00	-10.33	1.00 V	163	16.96	18.71
4	539.30	35.79 QP	46.00	-10.21	1.50 V	334	16.40	19.39
5	574.29	34.45 QP	46.00	-11.55	1.50 V	109	14.21	20.23
6	671.48	34.63 QP	46.00	-11.37	1.00 V	160	12.76	21.87
7	751.18	32.44 QP	46.00	-13.56	1.00 V	124	9.02	23.42
8	799.78	32.66 QP	46.00	-13.34	1.50 V	130	8.96	23.70
9	914.47	36.11 QP	46.00	-9.89	1.00 V	343	10.86	25.25
10	947.52	33.92 QP	46.00	-12.08	1.00 V	346	8.34	25.59

REMARKS:

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

**Below 1GHz Worst-Case Data (Antenna 2)**

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 3	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	168.02	31.64 QP	43.50	-11.86	1.50 H	304	17.76	13.88
2	224.39	31.66 QP	46.00	-14.34	1.50 H	160	19.75	11.91
3	304.09	30.60 QP	46.00	-15.40	1.00 H	244	16.18	14.42
4	613.17	30.02 QP	46.00	-15.98	1.00 H	184	8.95	21.08
5	675.37	32.15 QP	46.00	-13.85	1.00 H	37	10.23	21.92
6	710.36	30.35 QP	46.00	-15.65	1.00 H	46	7.87	22.49
7	743.41	30.07 QP	46.00	-15.93	1.00 H	178	6.80	23.26
8	811.44	31.36 QP	46.00	-14.64	1.50 H	127	7.57	23.80
9	933.91	31.74 QP	46.00	-14.26	1.50 H	178	6.30	25.45

REMARKS:

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

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 3	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	63.05	27.05 QP	40.00	-12.95	1.00 V	343	13.93	13.11
2	304.09	30.71 QP	46.00	-15.29	1.50 V	325	16.29	14.42
3	473.21	30.67 QP	46.00	-15.33	1.00 V	352	12.44	18.22
4	506.25	30.97 QP	46.00	-15.03	1.00 V	328	12.26	18.71
5	537.35	31.12 QP	46.00	-14.88	1.00 V	19	11.77	19.35
6	580.12	31.65 QP	46.00	-14.35	1.50 V	1	11.27	20.38
7	673.43	34.36 QP	46.00	-11.64	1.50 V	334	12.47	21.90
8	704.53	30.98 QP	46.00	-15.02	1.00 V	130	8.63	22.35
9	737.58	31.04 QP	46.00	-14.96	1.00 V	127	7.92	23.13
10	782.28	30.72 QP	46.00	-15.28	1.50 V	331	7.12	23.60
11	914.47	35.80 QP	46.00	-10.20	1.00 V	352	10.54	25.25
12	947.52	34.60 QP	46.00	-11.40	1.00 V	349	9.01	25.59

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

802.11a OFDM modulation (Antenna 1)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	#3830.00	46.81 PK	74.00	-27.19	1.20 H	109	12.87	33.95
1	#3830.00	38.75 AV	54.00	-15.25	1.20 H	109	4.81	33.95
2	*5745.00	106.07 PK			1.42 H	100	68.01	38.06
2	*5745.00	95.84 AV			1.42 H	100	57.78	38.06
3	#11490.00	59.24 PK	74.00	-14.76	1.15 H	197	12.01	47.23
3	#11490.00	45.24 AV	54.00	-8.76	1.15 H	197	-1.99	47.23

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	#3830.00	50.67 PK	74.00	-23.33	1.29 V	111	16.73	33.95
1	#3830.00	46.50 AV	54.00	-7.50	1.29 V	111	12.56	33.95
2	*5745.00	115.80 PK			1.14 V	221	77.74	38.06
2	*5745.00	105.96 AV			1.14 V	221	67.90	38.06
3	#11490.00	61.55 PK	74.00	-12.45	1.29 V	356	14.32	47.23
3	#11490.00	49.09 AV	54.00	-4.91	1.29 V	356	1.86	47.23

- NOTE:**
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. "*" : Fundamental frequency
 6. "#The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 3	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	#3856.00	47.12 PK	74.00	-26.88	1.16 H	287	13.09	34.03
1	#3856.00	38.80 AV	54.00	-15.20	1.16 H	287	4.77	34.03
2	*5785.00	106.15 PK			1.18 H	322	68.00	38.15
2	*5785.00	95.96 AV			1.18 H	322	57.81	38.15
3	#11570.00	59.35 PK	74.00	-14.65	1.07 H	260	12.23	47.12
3	#11570.00	46.20 AV	54.00	-7.80	1.07 H	260	-0.92	47.12

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	#3856.00	51.01 PK	74.00	-22.99	1.16 V	287	16.98	34.03
1	#3856.00	46.85 AV	54.00	-7.15	1.16 V	287	12.82	34.03
2	*5785.00	115.42 PK			1.18 V	322	77.27	38.15
2	*5785.00	105.62 AV			1.18 V	322	67.47	38.15
3	#11570.00	61.82 PK	74.00	-12.18	1.07 V	260	14.70	47.12
3	#11570.00	48.86 AV	54.00	-5.14	1.07 V	260	1.74	47.12

- NOTE:**
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. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 4	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	#3870.00	45.78 PK	74.00	-28.22	1.16 H	275	11.70	34.08
1	#3870.00	36.14 AV	54.00	-17.86	1.16 H	275	2.06	34.08
2	*5805.00	102.40 PK			1.18 H	322	64.21	38.19
2	*5805.00	92.62 AV			1.18 H	322	54.43	38.19
3	#11610.00	56.83 PK	74.00	-17.17	1.10 H	180	9.75	47.08
3	#11610.00	44.26 AV	54.00	-9.74	1.10 H	180	-2.82	47.08

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	#3870.00	50.88 PK	74.00	-23.12	1.30 V	4	16.80	34.08
1	#3870.00	46.62 AV	54.00	-7.38	1.30 V	4	12.54	34.08
2	*5805.00	111.50 PK			1.33 V	228	73.31	38.19
2	*5805.00	101.50 AV			1.33 V	228	63.31	38.19
3	#11610.00	57.42 PK	74.00	-16.58	1.11 V	156	10.34	47.08
3	#11610.00	46.28 AV	54.00	-7.72	1.11 V	156	-0.80	47.08

- NOTE:**
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. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

802.11a OFDM modulation (Antenna 2)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	#3830.00	47.72 PK	74.00	-26.28	1.26 H	12	13.78	33.95
1	#3830.00	35.45 AV	54.00	-18.55	1.26 H	12	1.50	33.95
2	*5745.00	102.52 PK			1.65 H	206	64.46	38.06
2	*5745.00	93.04 AV			1.65 H	206	54.98	38.06

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	#3830.00	45.97 PK	74.00	-28.03	1.19 V	157	12.03	33.95
1	#3830.00	36.36 AV	54.00	-17.64	1.19 V	157	2.42	33.95
2	*5745.00	114.14 PK			1.20 V	314	76.08	38.06
2	*5745.00	104.31 AV			1.20 V	314	66.25	38.06
3	#11490.00	61.35 PK	74.00	-12.65	1.00 V	141	14.12	47.23
3	#11490.00	48.60 AV	54.00	-5.40	1.00 V	141	1.37	47.23

- NOTE:**
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. “*” : Fundamental frequency
 6. “#”The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 3	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	*5785.00	102.65 PK			1.05 H	355	64.50	38.15
1	*5785.00	93.24 AV			1.05 H	355	55.09	38.15
2	#11570.00	59.42 PK	74.00	-14.58	1.57 H	39	12.30	47.12
2	#11570.00	48.24 AV	54.00	-5.76	1.57 H	39	1.12	47.12

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	#3856.00	45.75 PK	74.00	-28.25	1.36 V	360	11.71	34.03
1	#3856.00	36.64 AV	54.00	-17.36	1.36 V	360	2.60	34.03
2	*5785.00	113.85 PK			1.21 V	360	75.70	38.15
2	*5785.00	104.20 AV			1.21 V	360	66.05	38.15
3	#11570.00	62.47 PK	74.00	-11.53	1.00 V	10	15.35	47.12
3	#11570.00	50.29 AV	54.00	-3.71	1.00 V	10	3.17	47.12

- NOTE:**
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. “*” : Fundamental frequency
 6. “#”The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 4	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	*5805.00	100.14 PK			1.04 H	356	61.95	38.19
1	*5805.00	90.56 AV			1.04 H	356	52.37	38.19
2	#11610.00	58.32 PK	74.00	-15.68	1.17 H	330	11.24	47.08
2	#11610.00	46.86 AV	54.00	-7.14	1.17 H	330	-0.22	47.08

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	#3870.00	46.25 PK	74.00	-27.75	1.01 V	1	12.17	34.08
1	#3870.00	37.68 AV	54.00	-16.32	1.01 V	1	3.60	34.08
2	*5805.00	111.15 PK			1.20 V	11	72.96	38.19
2	*5805.00	100.59 AV			1.20 V	11	62.40	38.19
3	#11610.00	60.47 PK	74.00	-13.53	1.24 V	353	13.39	47.08
3	#11610.00	47.83 AV	54.00	-6.17	1.24 V	353	0.75	47.08

- NOTE:**
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. “*” : Fundamental frequency
 6. “#”The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

802.11a Turbo OFDM modulation (Antenna 1)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	12Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	#3840.00	45.89 PK	74.00	-28.11	1.23 H	63	11.91	33.98
1	#3840.00	36.54 AV	54.00	-17.46	1.23 H	63	2.56	33.98
2	*5760.00	103.67 PK			1.06 H	326	65.58	38.09
2	*5760.00	94.18 AV			1.06 H	326	56.09	38.09
3	#11520.00	58.29 PK	74.00	-15.71	1.11 H	163	11.09	47.20
3	#11520.00	44.60 AV	54.00	-9.40	1.11 H	163	-2.60	47.20

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	#3840.00	50.39 PK	74.00	-23.61	1.13 V	296	16.41	33.98
1	#3840.00	47.20 AV	54.00	-6.80	1.13 V	296	13.22	33.98
2	*5760.00	110.55 PK			1.12 V	37	72.46	38.09
2	*5760.00	101.27 AV			1.12 V	37	63.18	38.09
3	#11520.00	58.20 PK	74.00	-15.80	1.07 V	46	11.00	47.20
3	#11520.00	46.01 AV	54.00	-7.99	1.07 V	46	-1.19	47.20

- NOTE:**
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. “*” : Fundamental frequency
 6. “#”The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 2	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	12Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	#3866.00	45.72 PK	74.00	-28.28	1.18 H	274	11.65	34.07
1	#3866.00	38.02 AV	54.00	-15.98	1.18 H	274	3.95	34.07
2	*5800.00	101.28 PK			1.15 H	325	63.10	38.18
2	*5800.00	92.53 AV			1.15 H	325	54.35	38.18
3	#11600.00	58.06 PK	74.00	-15.94	1.20 H	177	10.99	47.07
3	#11600.00	44.47 AV	54.00	-9.53	1.20 H	177	-2.60	47.07

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	#3866.00	52.11 PK	74.00	-21.89	1.30 V	17	18.04	34.07
1	#3866.00	48.47 AV	54.00	-5.53	1.30 V	17	14.40	34.07
2	*5800.00	111.47 PK			1.02 V	262	73.29	38.18
2	*5800.00	101.80 AV			1.02 V	262	63.62	38.18
3	#11600.00	58.25 PK	74.00	-15.75	1.07 V	45	11.18	47.07
3	#11600.00	45.89 AV	54.00	-8.11	1.07 V	45	-1.18	47.07

- NOTE:**
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. “*” : Fundamental frequency
 6. “#”The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

802.11a Turbo OFDM modulation (Antenna 2)

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 66%RH, 991hPa
TRANSFER RATE	12Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	*5760.00	100.85 PK			1.33 H	360	62.76	38.09
1	*5760.00	90.73 AV			1.33 H	360	52.64	38.09
2	#11520.00	60.42 PK	74.00	-13.58	1.03 H	16	13.22	47.20
2	#11520.00	47.28 AV	54.00	-6.72	1.03 H	16	0.08	47.20

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	#3840.00	46.58 PK	74.00	-27.42	1.03 V	351	12.60	33.98
1	#3840.00	38.72 AV	54.00	-15.28	1.03 V	351	4.74	33.98
2	*5760.00	111.40 PK			1.11 V	360	73.31	38.09
2	*5760.00	101.25 AV			1.11 V	360	63.16	38.09
3	#11520.00	62.40 PK	74.00	-11.60	1.12 V	13	15.20	47.20
3	#11520.00	48.25 AV	54.00	-5.75	1.12 V	13	1.05	47.20

- NOTE:**
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. “*” : Fundamental frequency
 6. “#”The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247

EUT	11a/b/g Wireless PCI Adapter	MEASUREMENT DETAIL	
MODEL	SL-3055	FREQUENCY RANGE	1 ~ 40 GHz
CHANNEL	Channel 2	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 66%RH, 991hPa
TRANSFER RATE	12Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	*5800.00	101.54 PK			1.23 H	13	63.36	38.18
1	*5800.00	91.45 AV			1.23 H	13	53.27	38.18
2	#11600.00	62.51 PK	74.00	-11.49	1.10 H	186	15.44	47.07
2	#11600.00	48.10 AV	54.00	-5.90	1.10 H	186	1.03	47.07

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	#3866.00	45.80 PK	74.00	-28.20	1.13 V	260	11.73	34.07
1	#3866.00	37.50 AV	54.00	-16.50	1.13 V	260	3.43	34.07
2	*5800.00	111.47 PK			1.20 V	12	73.29	38.18
2	*5800.00	101.28 AV			1.20 V	12	63.10	38.18
3	#11600.00	58.36 PK	74.00	-15.64	1.07 V	116	11.29	47.07
3	#11600.00	50.40 AV	54.00	-3.60	1.07 V	116	3.33	47.07

- NOTE:**
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. "*" : Fundamental frequency
 6. "#"The radiated frequency falling in the restricted band.
 7. The limit value is defined as per 15.247