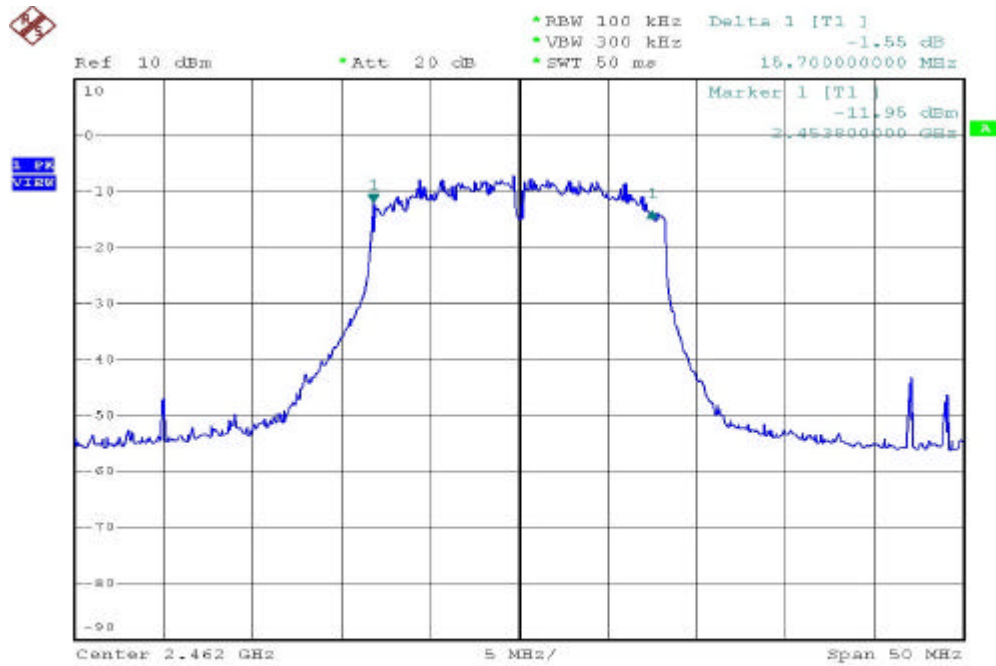
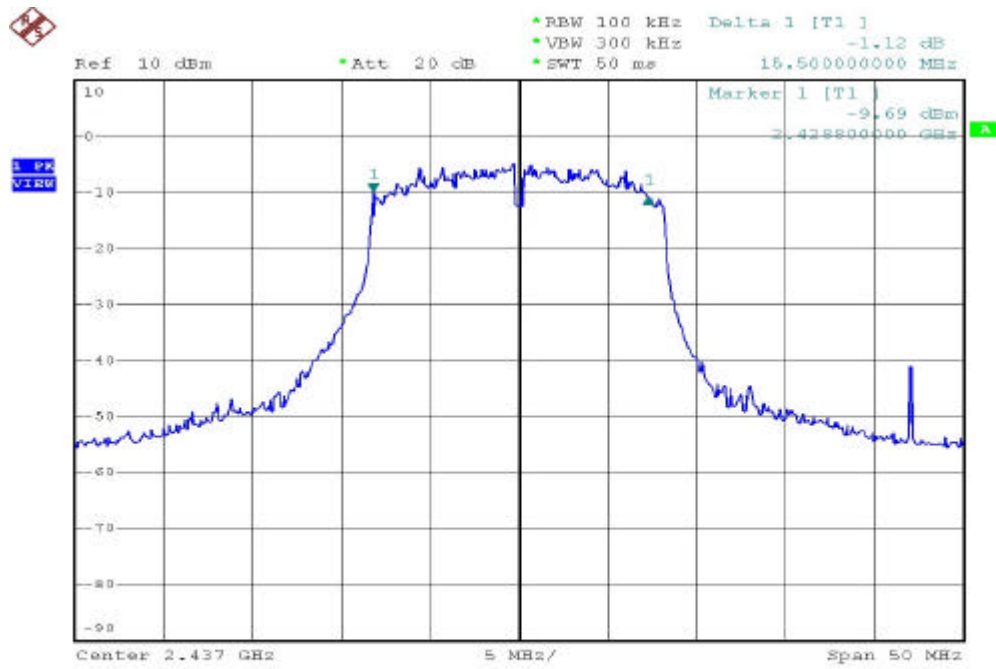




4.5. Peak Output Power Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: May. 18. 2004 Temperature: 25°C Humidity: 58%

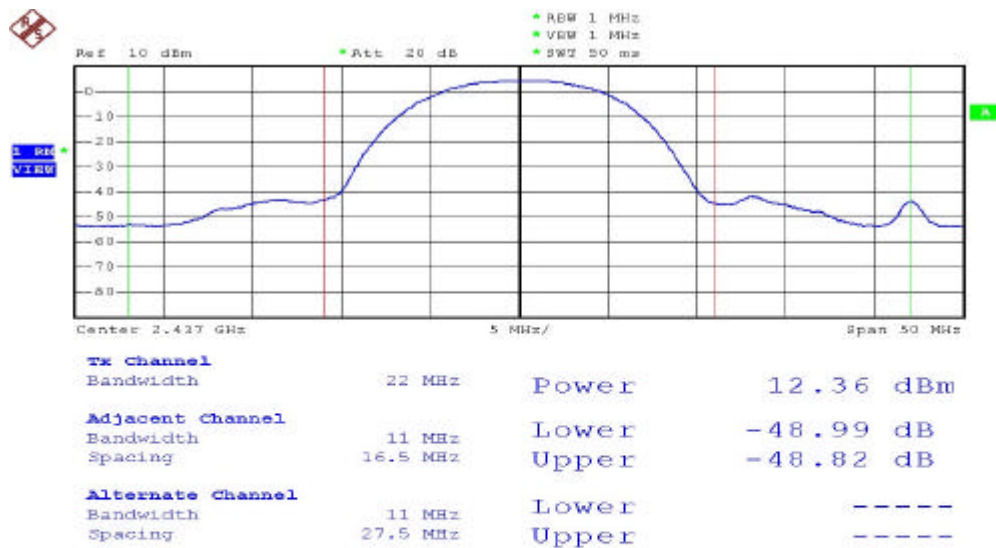
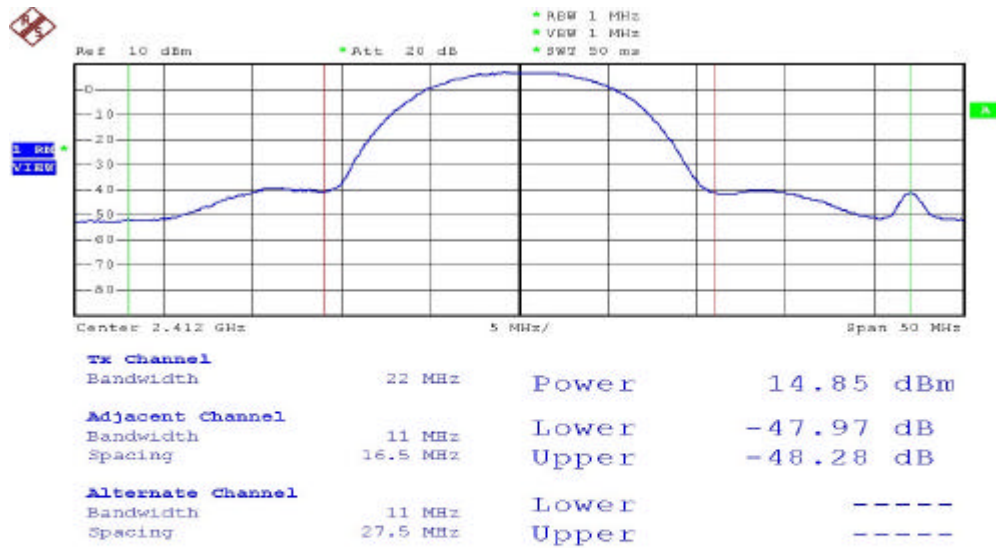
- a) Channel 01: Output Peak Power is 14.85dBm or 30.545mW
- b) Channel 06: Output Peak Power is 12.36dBm or 17.232mW
- c) Channel 11: Output Peak Power is 11.62dBm or 14.508mW

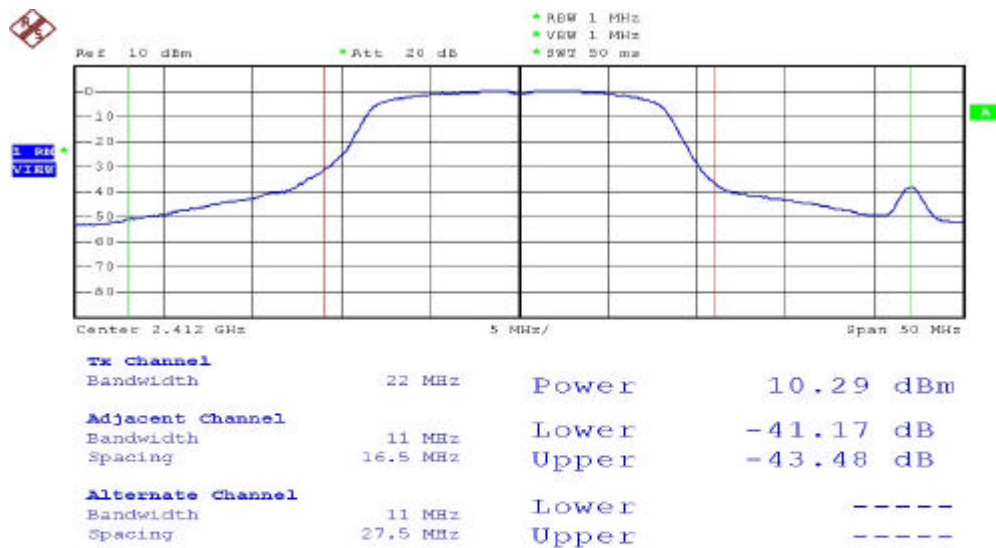
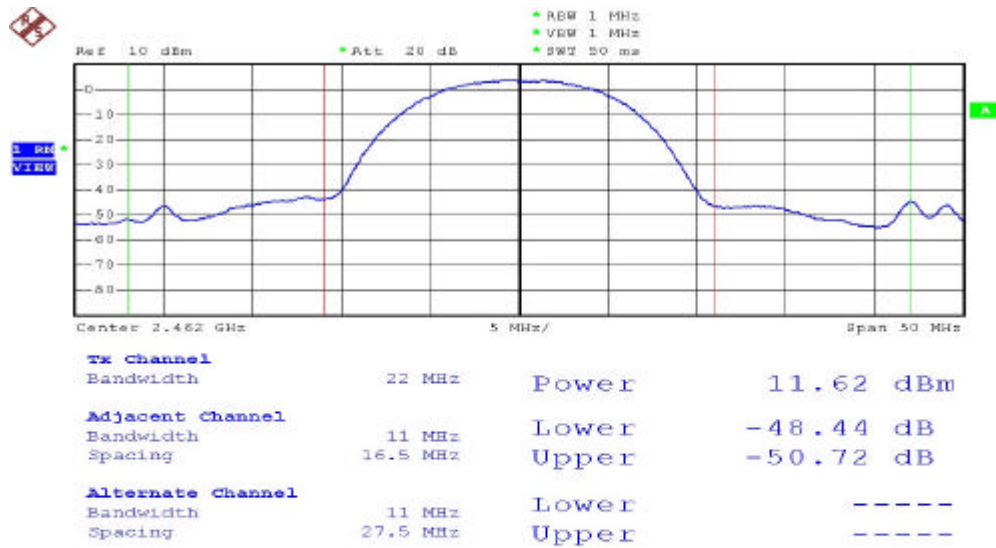
(2) Modulation Standard: IEEE 802.11g

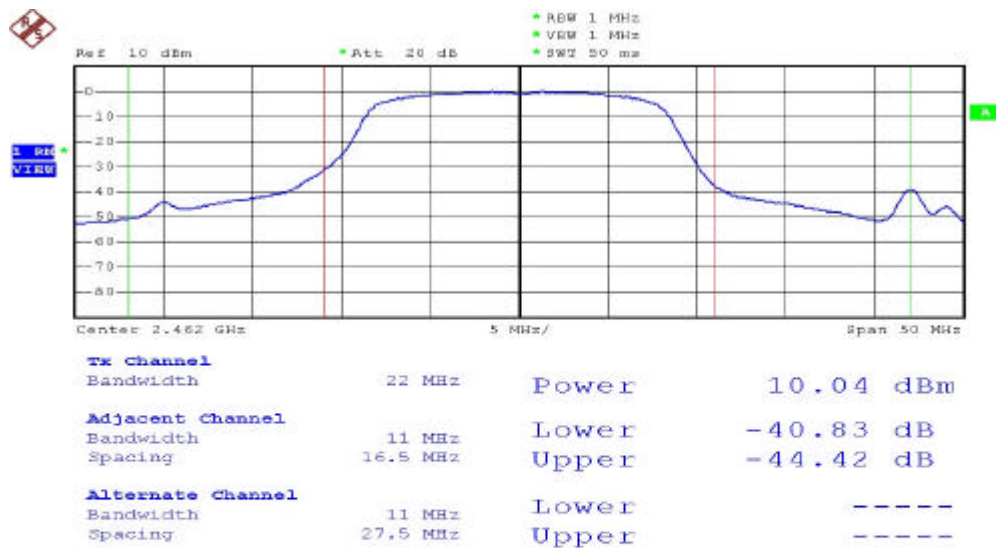
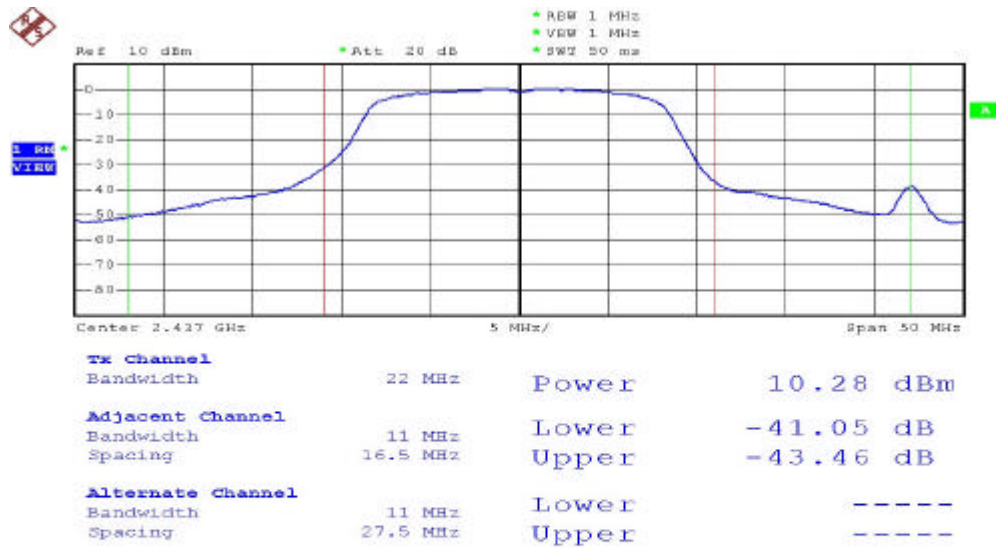
Test Date: May. 18. 2004 Temperature: 25°C Humidity: 58%

- a) Channel 01: Output Peak Power is 10.29dBm or 10.694mW
- b) Channel 06: Output Peak Power is 10.28dBm or 10.673mW
- c) Channel 11: Output Peak Power is 10.04dBm or 10.096mW

Note: Conducted Power = Reading Value + Cable Loss







4.6. Band Edges Measurement Data

(1) Modulation Standard: IEEE 802.11b

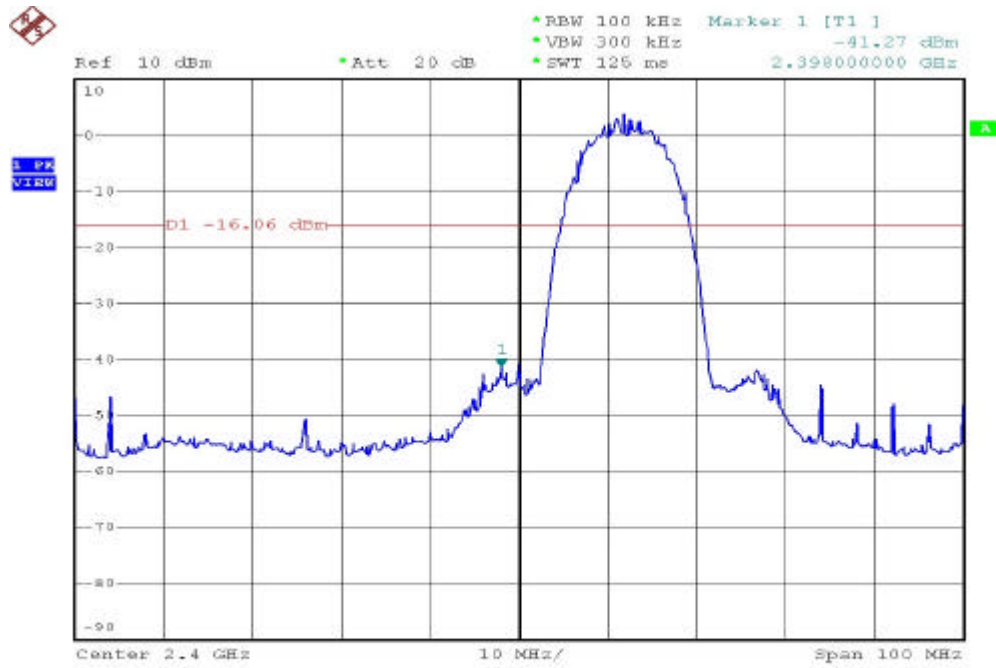
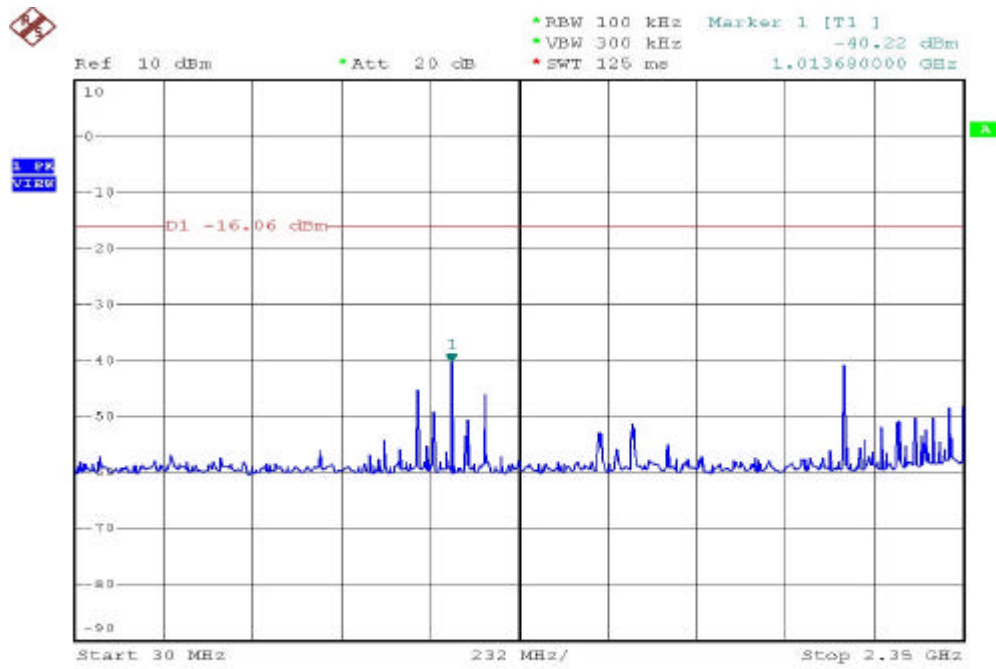
Test Date: May. 18. 2004 Temperature: 25°C Humidity: 58%

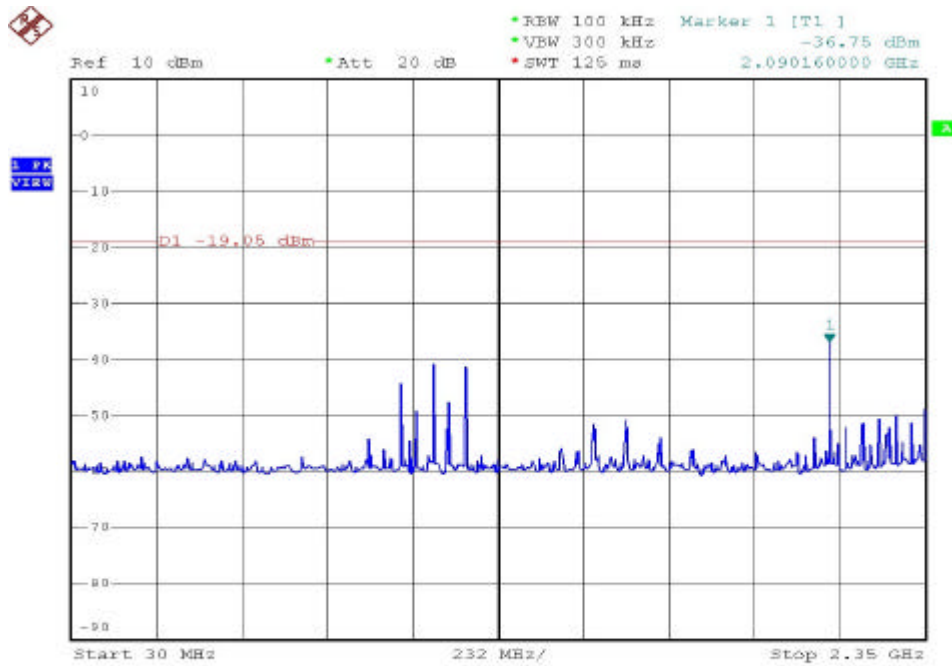
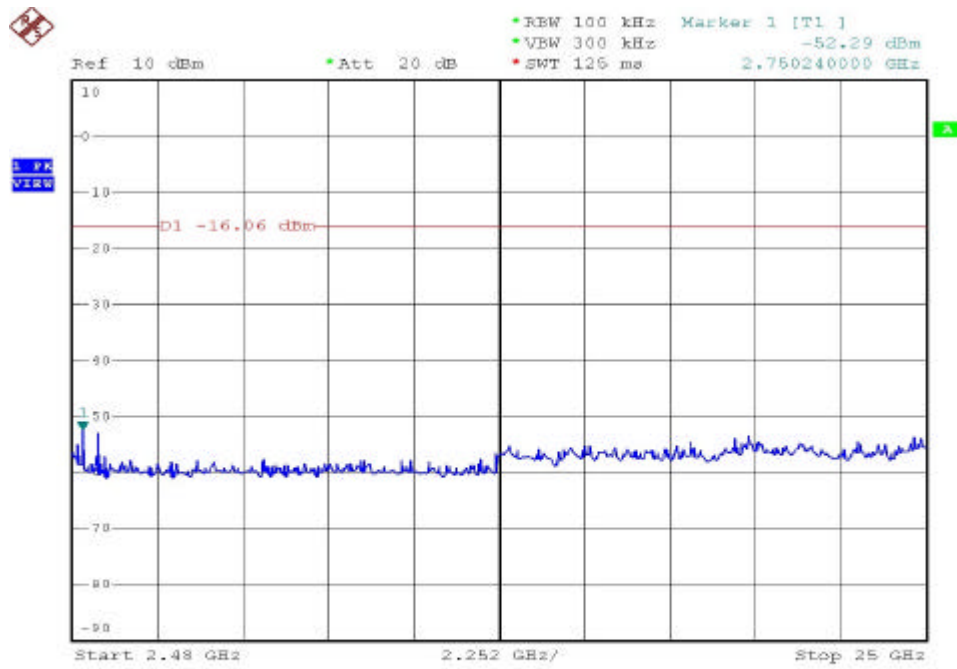
- a) Lower Band Edge: maximum value is -40.22dBm that is attenuated more than 20dB
- b) Upper Band Edge: maximum value is -36.75dBm that is attenuated more than 20dB

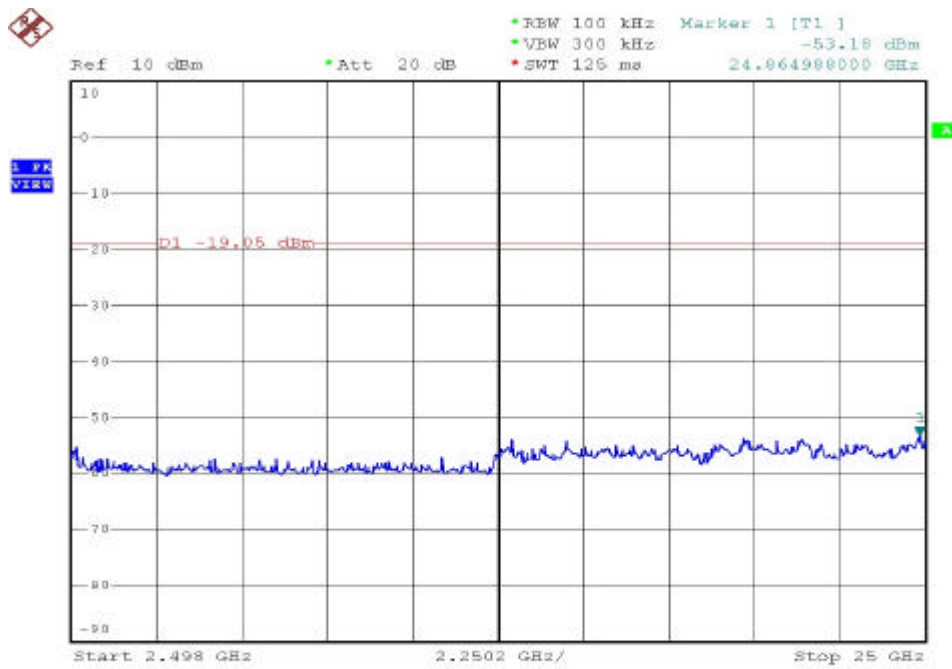
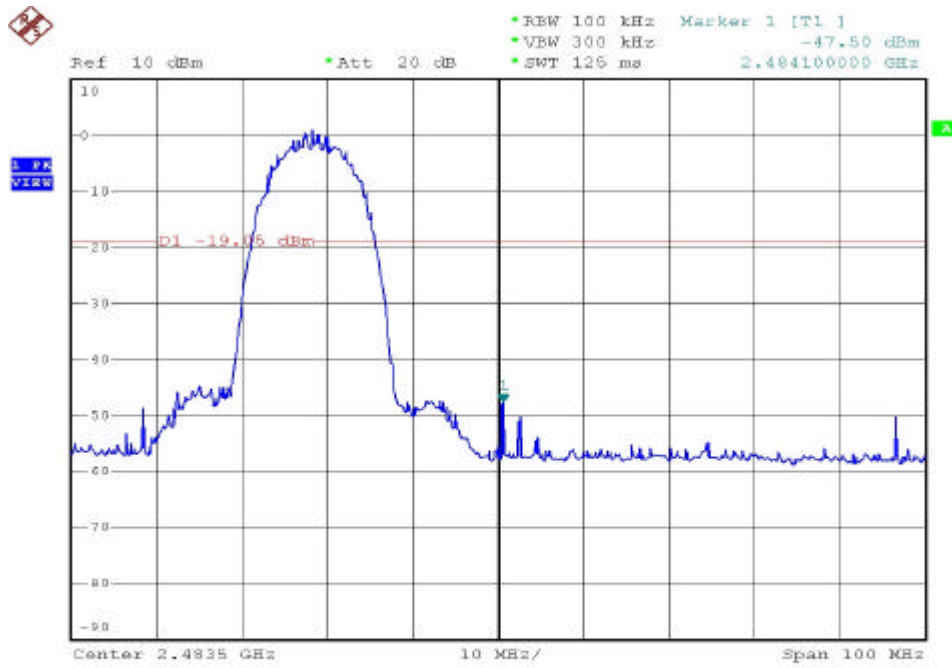
(2) Modulation Standard: IEEE 802.11g

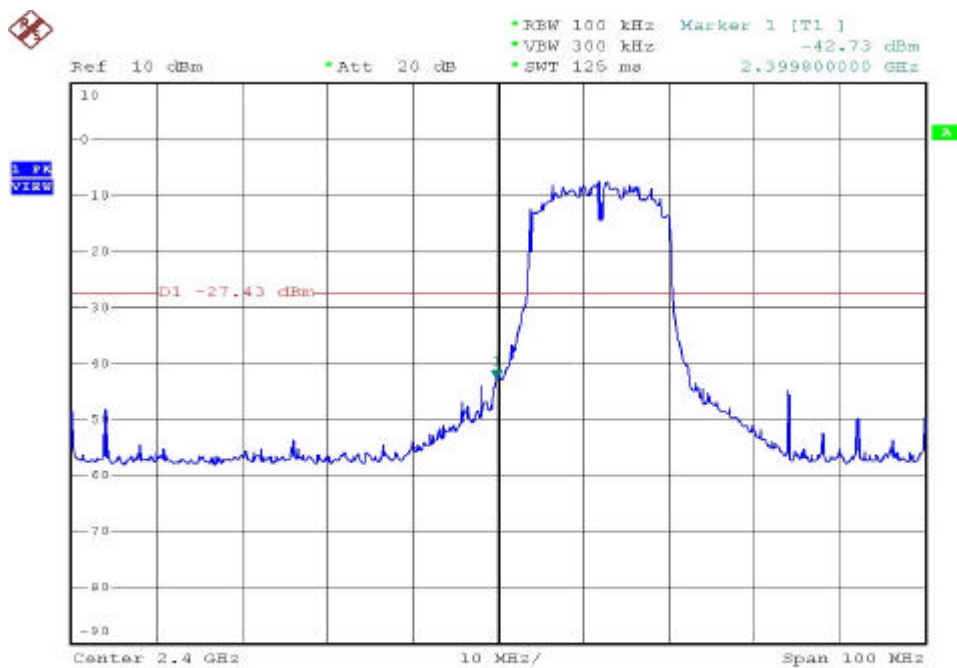
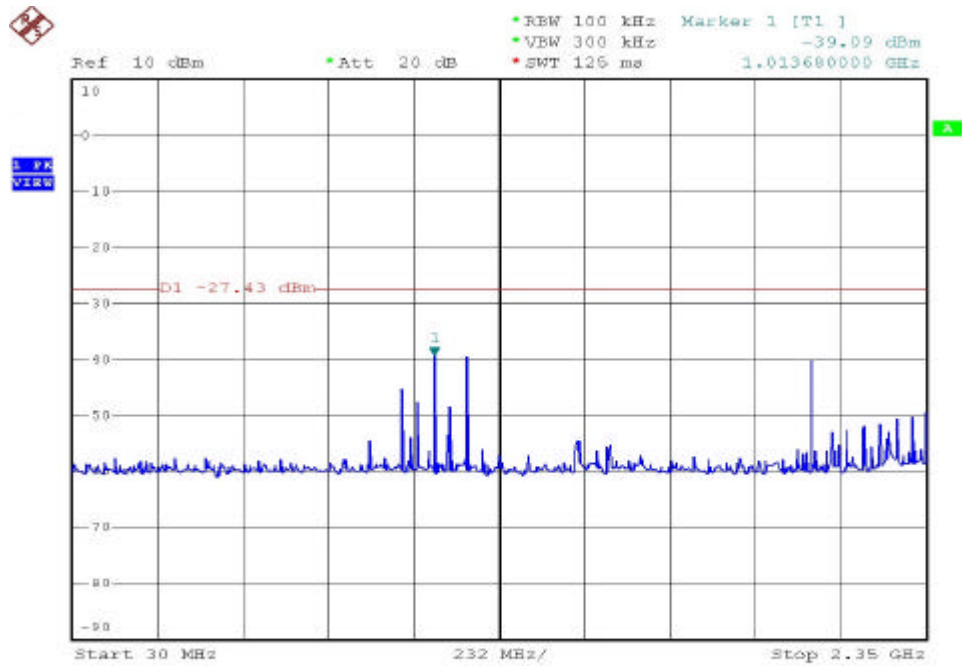
Test Date: May. 18. 2004 Temperature: 25°C Humidity: 58%

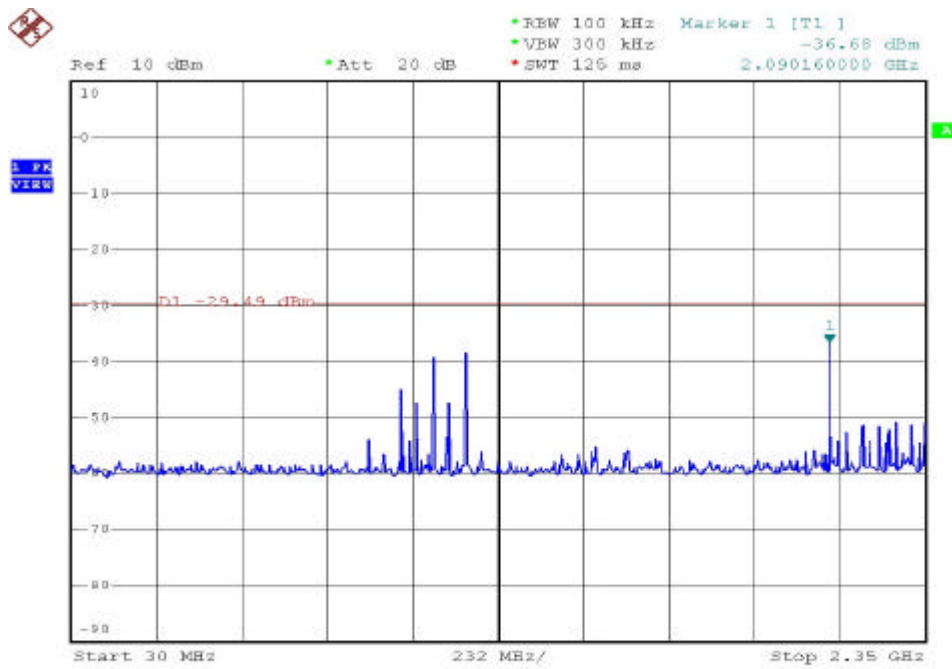
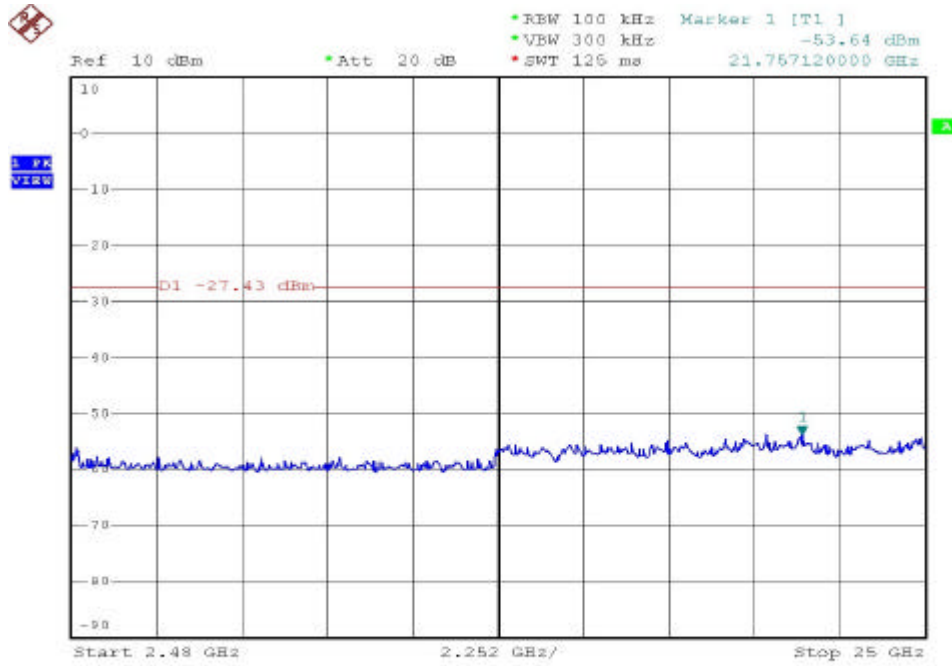
- a) Lower Band Edge: maximum value is -39.09dBm that is attenuated more than 20dB
- b) Upper Band Edge: maximum value is -36.68dBm that is attenuated more than 20dB

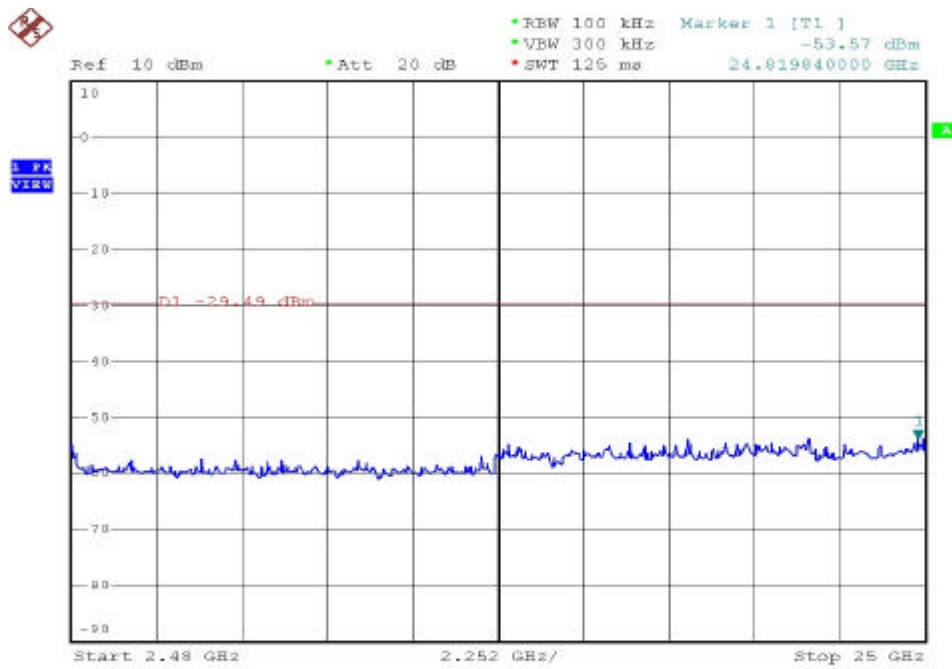
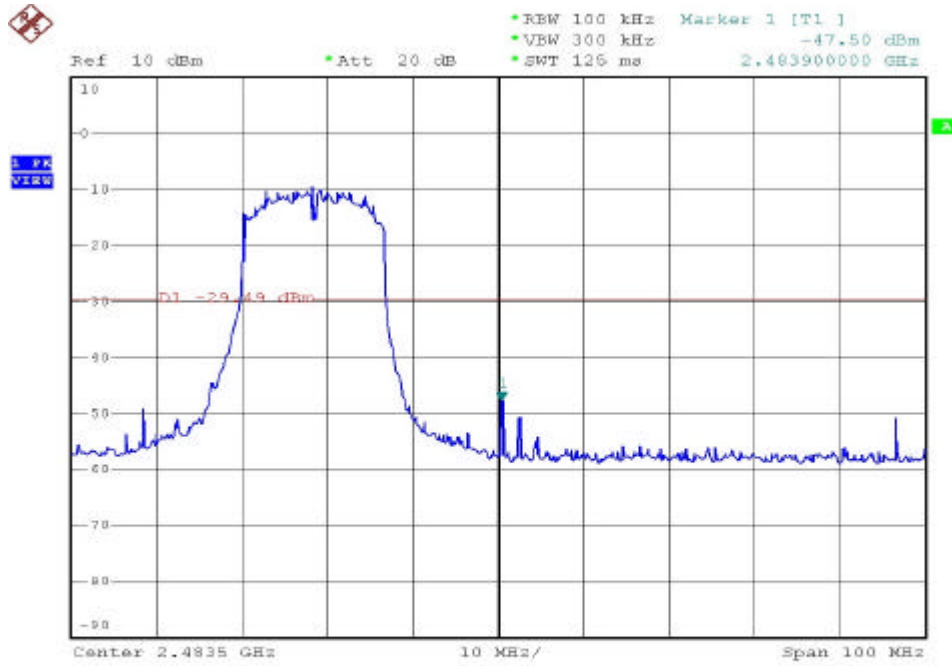












4.6.1. Note on Band edge Emission

Modulation Standard: IEEE 802.11b

Operation Mode: Receiving/ Transmitting

Test Date: May. 18, 2004 Temperature: 25 °C Humidity: 58%

a) Channel 1

Fundamental Frequency: 2412 MHz

Frequency (MHz)	Level (dBuV)	polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2310.000	44.45	V	Peak	74	54	-29.55	180	1.5
2310.000	37.66	V	Ave	74	54	-16.34	180	1.5
2310.204	47.65	H	Peak	74	54	-26.35	180	1.5
2310.000	42.27	H	Ave	74	54	-11.73	180	1.5

b) Channel 11

Fundamental Frequency: 2462 MHz

Frequency (MHz)	Level (dBuV)	polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2484.116	36.67	V	Peak	74	54	-37.33	180	1.5
2484.192	35.55	V	Ave	74	54	-18.45	180	1.5
2484.440	45.18	H	Peak	74	54	-28.82	180	1.5
2483.964	38.83	H	Ave	74	54	-15.17	180	1.5

4.6.2. Modulation Standard: IEEE 802.11g

Operation Mode: Receiving/ Transmitting

Test Date: May. 18, 2004 Temperature: 25 °C Humidity: 58%

c) Channel 1

Fundamental Frequency: 2412 MHz

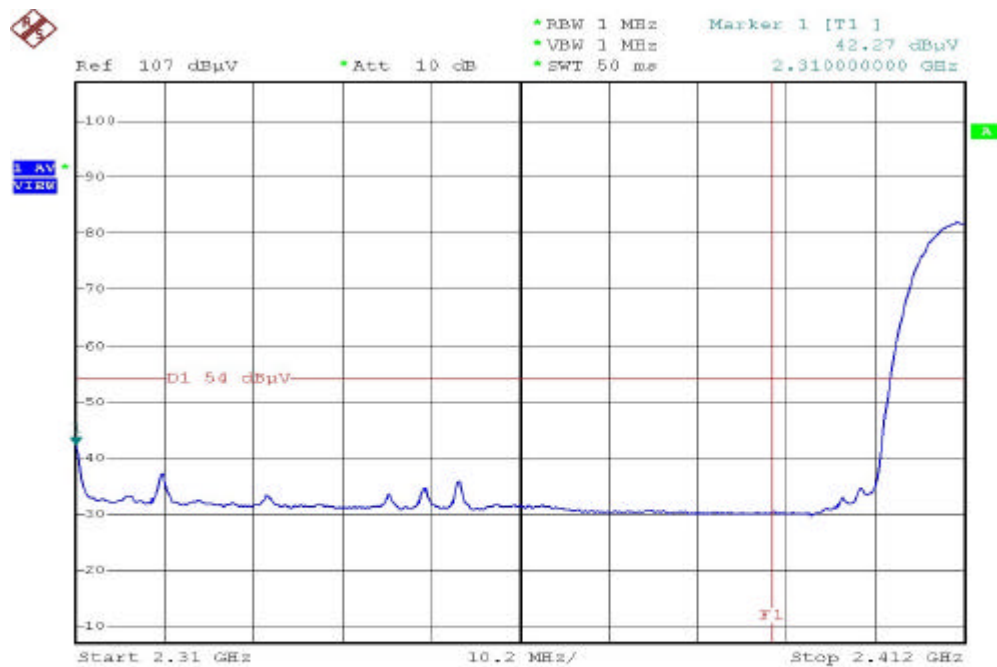
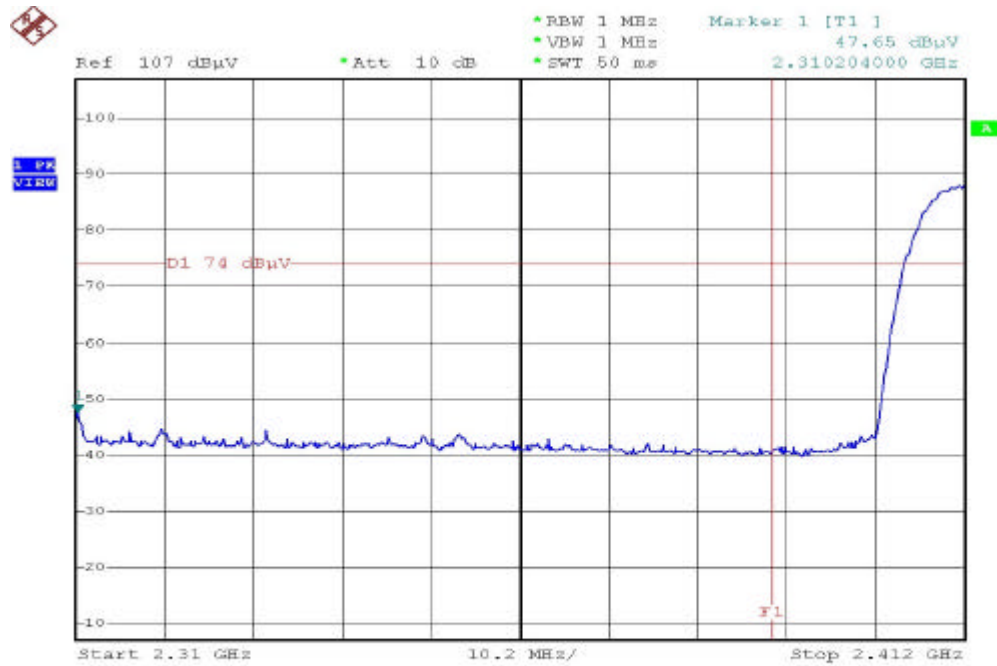
Frequency (MHz)	Level (dBuV)	polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2349.780	43.77	V	Peak	74	54	-30.23	180	1.5
2310.000	36.33	V	Ave	74	54	-17.67	180	1.5
2310.204	46.17	H	Peak	74	54	-27.83	180	1.5
2310.000	41.05	H	Ave	74	54	-12.95	180	1.5

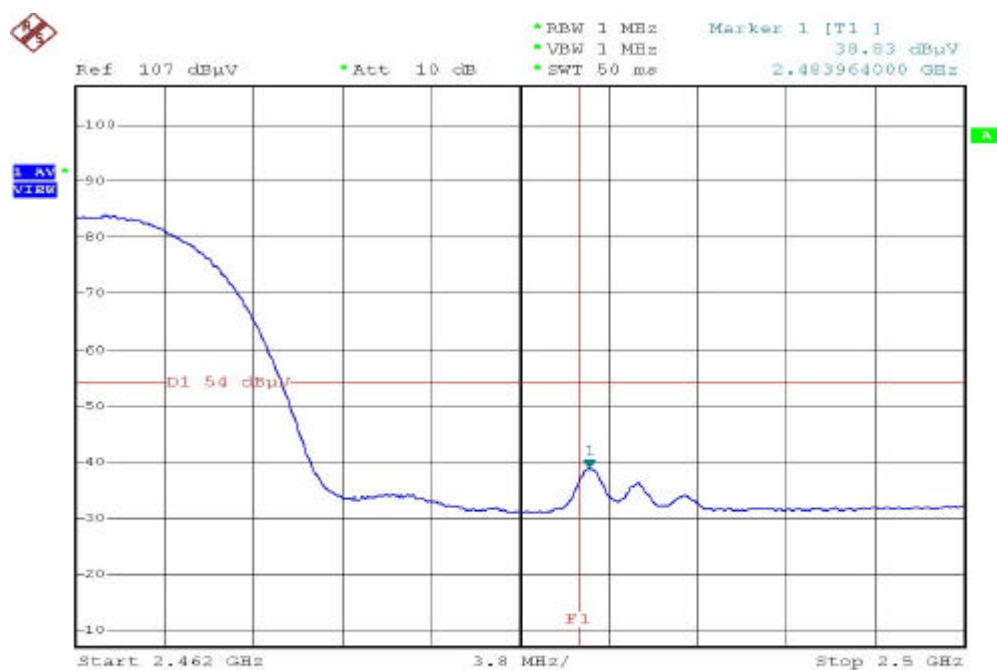
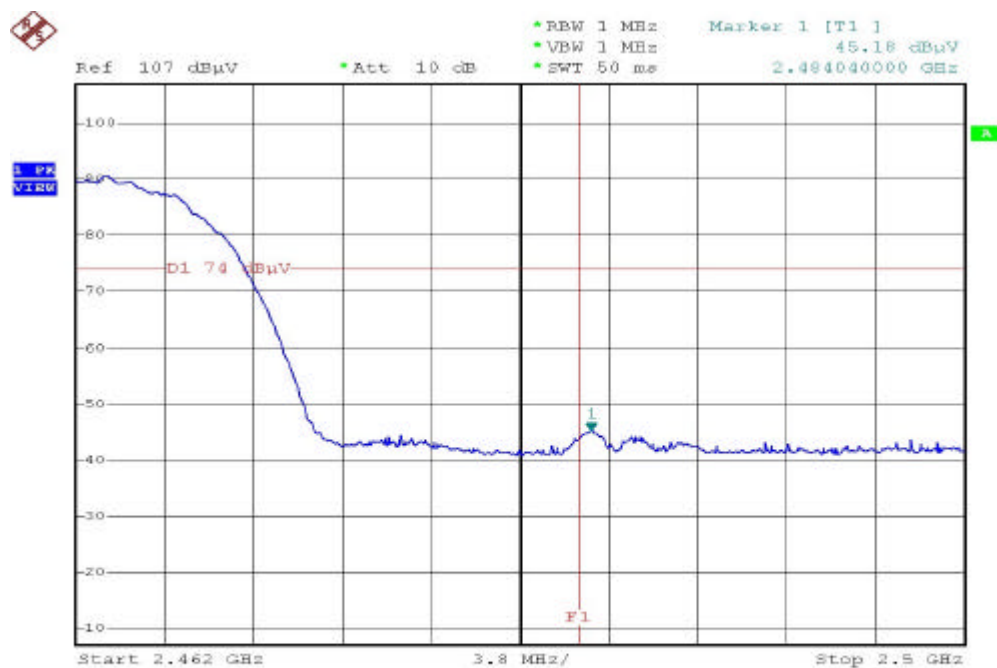
d) Channel 11

Fundamental Frequency: 2462 MHz

Frequency (MHz)	Level (dBuV)	polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2484.032	43.23	V	Peak	74	54	-30.77	180	1.5
2483.804	35.18	V	Ave	74	54	-18.82	180	1.5
2483.964	45.98	H	Peak	74	54	-28.02	180	1.5
2484.040	39.03	H	Ave	74	54	-14.97	180	1.5

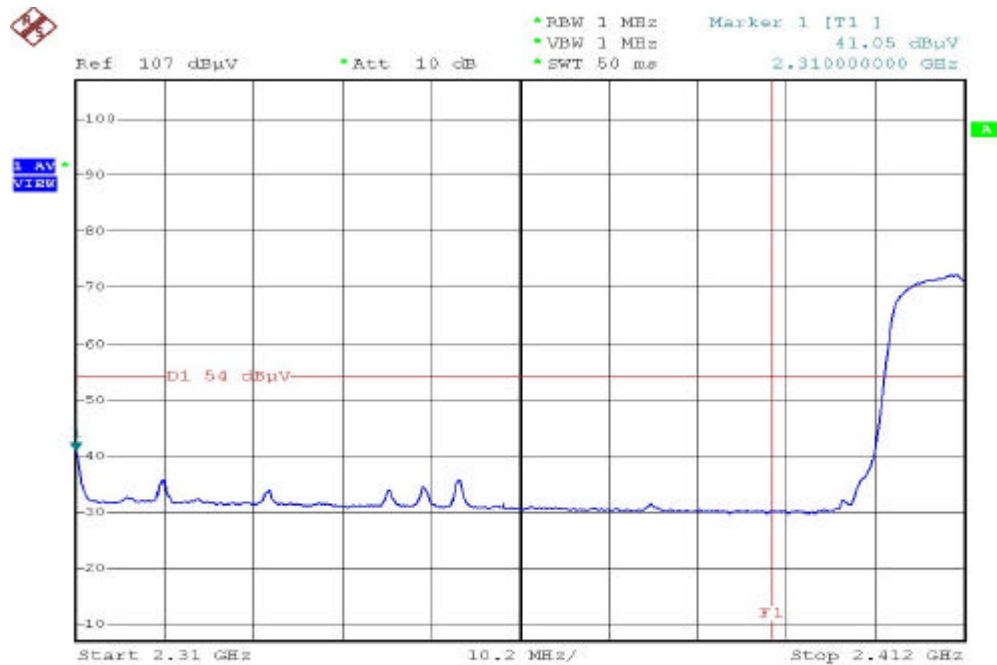
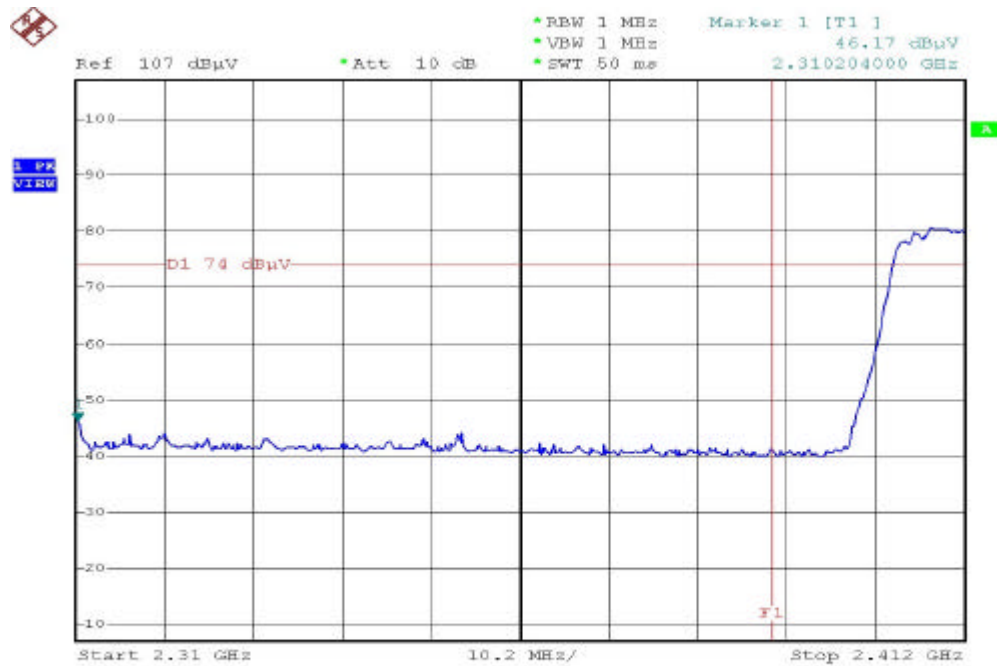
Modulation Standard: IEEE 802.11b
Pol/Phase: Horizontal

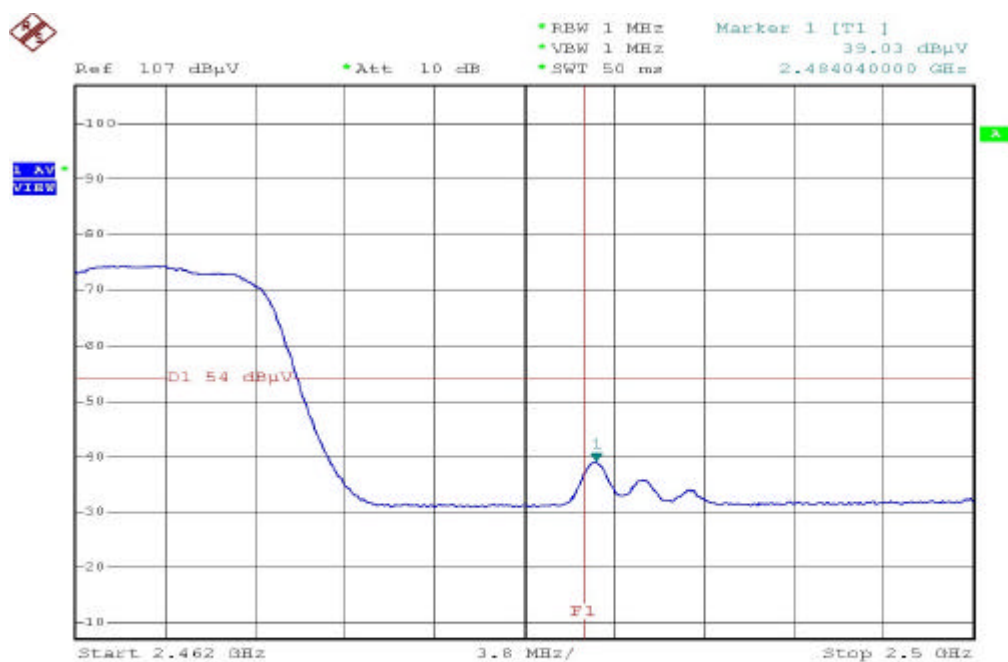
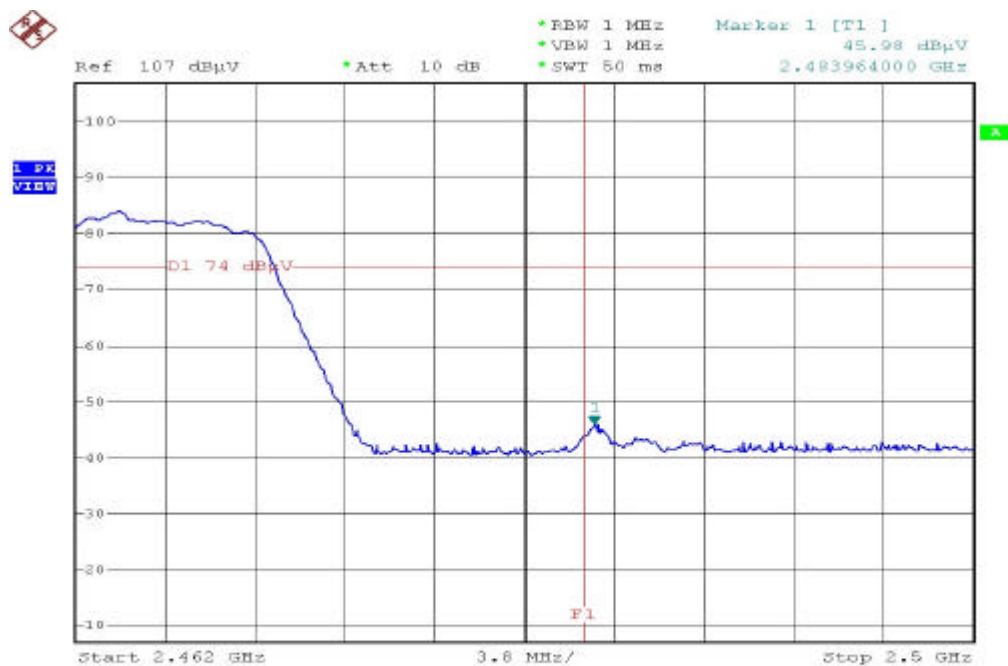




Modulation Standard: IEEE 802.11g

Pol/Phase: Horizontal





4.7. Power Spectral Density Measurement Data

(1) Modulation Standard: IEEE 802.11b

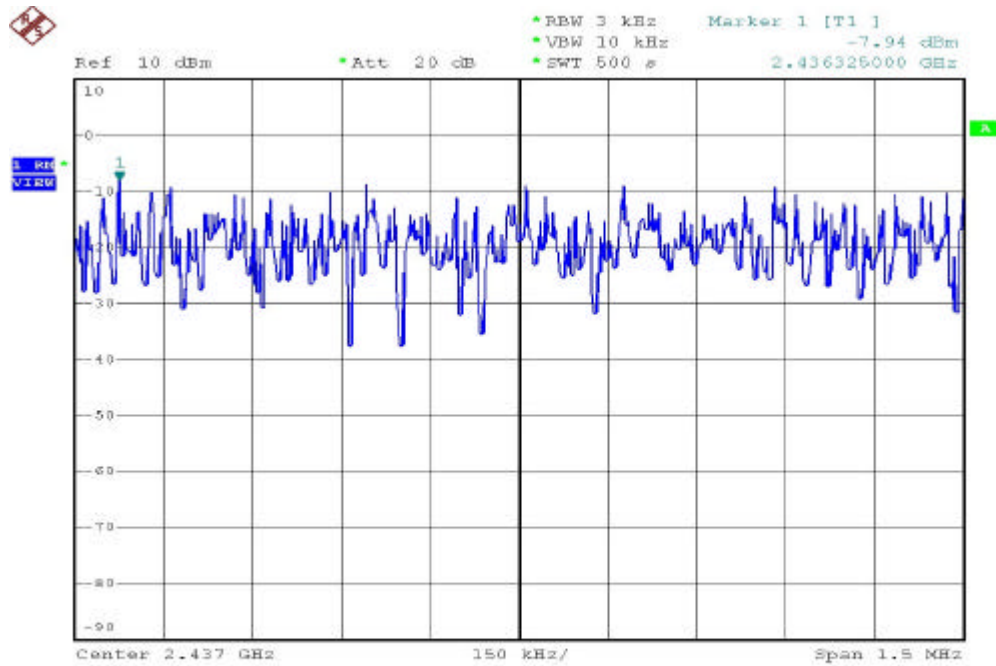
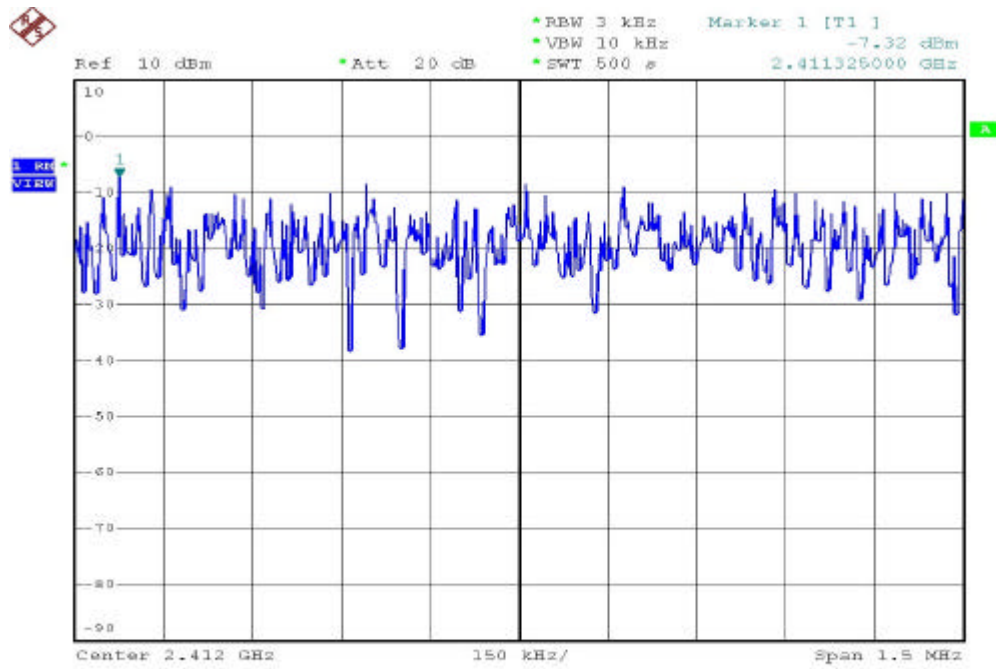
Test Date: May. 18, 2004 Temperature: 25°C Humidity: 58%

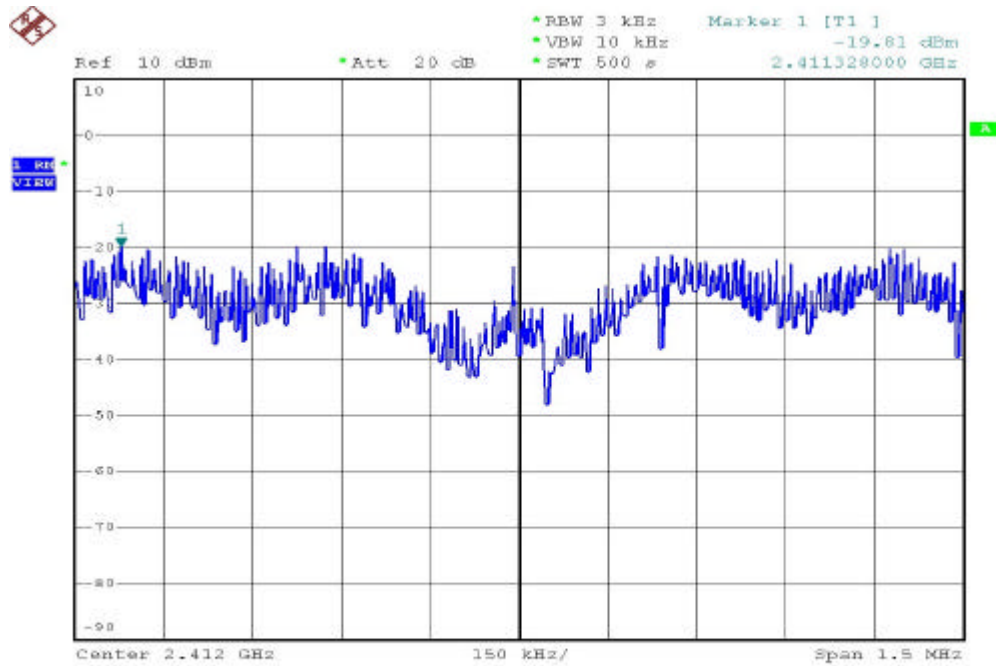
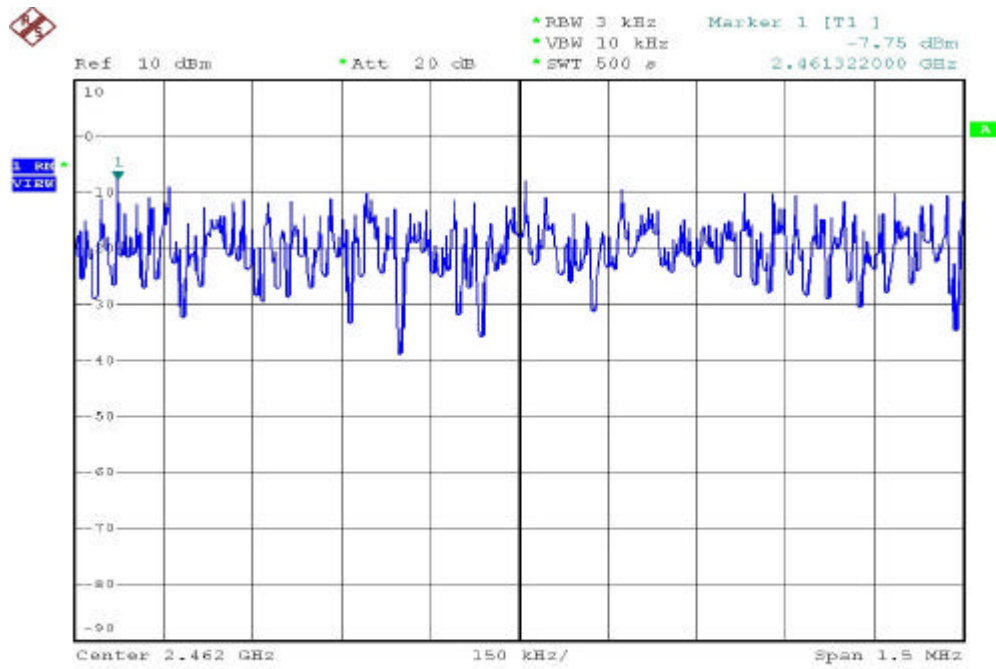
- a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -7.32dBm
- b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -7.94dBm
- c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -7.75dBm

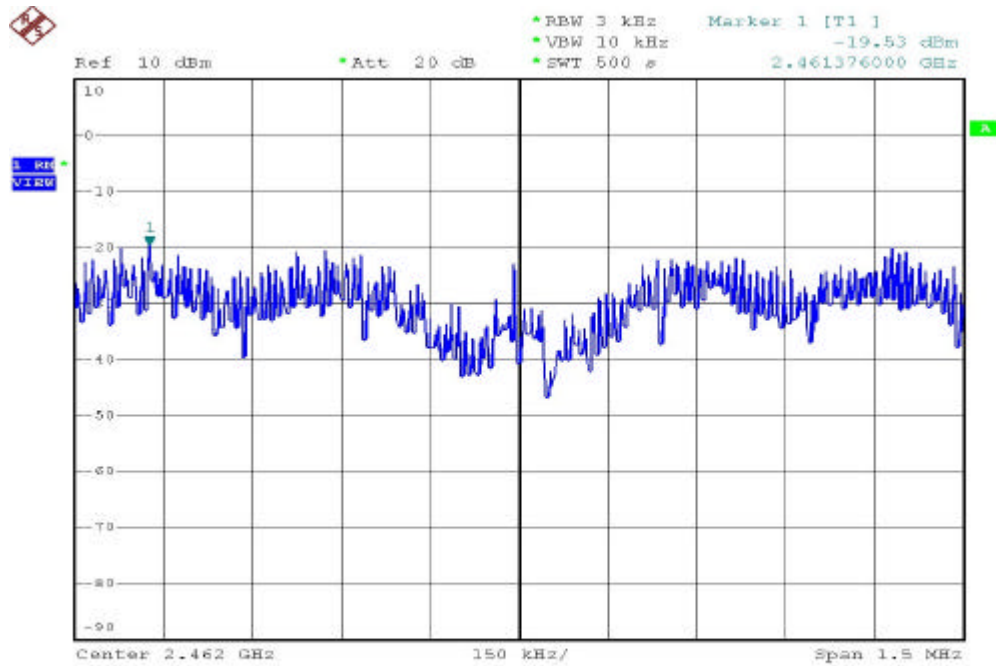
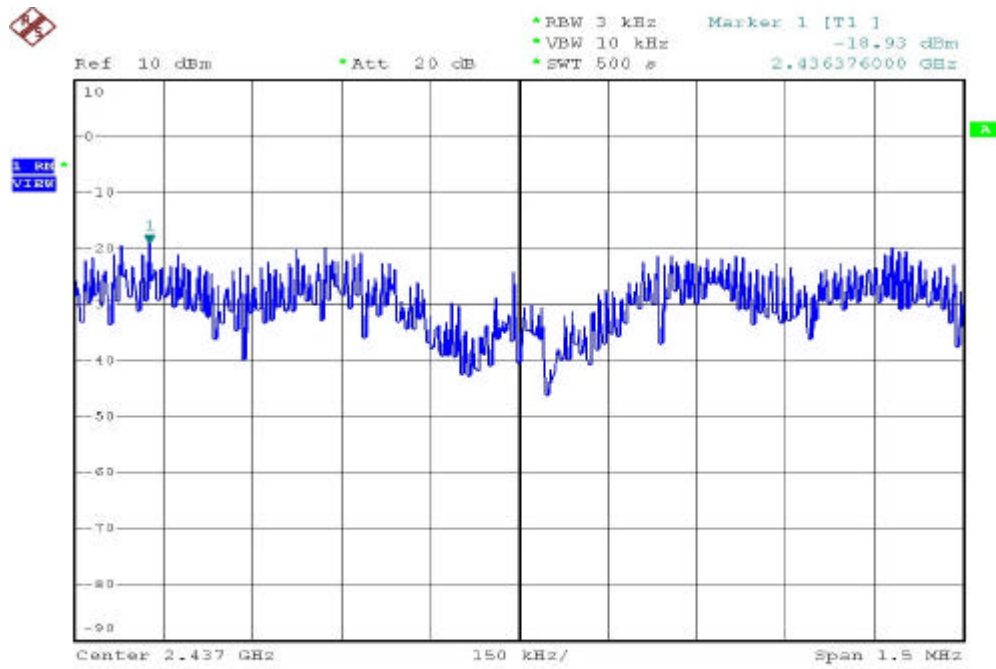
(2) Modulation Standard: IEEE 802.11g

Test Date: May. 18, 2004 Temperature: 25°C Humidity: 58%

- a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -19.81dBm
- b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -18.93dBm
- c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -19.53dBm







4.8. Test Result of RF Exposure Evaluation

- . Product: 54 Mbps Wireless Travel Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

4.8.1. Antenna Gain

The maximum Gain is 1.0 dBi.

4.8.2. EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.8.3. Output Power into Antenna & RF Exposure Evaluation Distance

Modulation Standard: IEEE 802.11b

Test Date: May. 18, 2004 Temperature: 25°C Humidity: 58%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Minimum allowable Distance @From Skin (cm)
01	2412	14.85	1.559
06	2437	12.36	1.171
11	2462	11.62	1.074

Modulation Standard: IEEE 802.11g

Test Date: May. 18, 2004 Temperature: 25°C Humidity: 58%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Minimum allowable Distance @From Skin (cm)
01	2412	10.29	0.922
06	2437	10.28	0.922
11	2462	10.04	0.896

The distance r (4th column) calculated from the Friis transmission formula is far shorter than 20 cm separation requirement. So, RF exposure limit warning or SAR test are not required.

5. List of Measuring Equipment Used

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Valid Date.
1	BILOG ANTENNA	CBL6111C	SCHAFFNER	2762	2004/11/03
2	PREAMPLIFIER	RFP4002	SCHAFFNER	010	2004/11/03
3	RECEIVER	SCR3501	SCHAFFNER	437	2004/11/03
4	SIGNAL GENERATOR	8648B	HP	3629U00612	2006/02/08
5	SPECTRUM ANALYZER	8594E	HP	3520A01913	2005/01/15
6	AMPLIFIER	8447D	AGILENT	2944A10593	2004/10/09
7	AMPLIFIER	8447D	AGILENT	2944A10531	2004/07/08
8	SERIES POWER METER	E4416A	AGILENT	GB41292146	2004/11/05
9	POWER SENSOR	E9327A	AGILENT	US40441392	2004/10/06
10	DIPOLE ANTENNA	AD-100	COM-POWER	721011	2004/12/02
11	DIPOLE ANTENNA	AD-100	COM-POWER	721010	2004/12/02
12	SPECTRUM ANALYZER	R3131A	ADVANTEST	131000021	2004/11/24
13	SPECTRUM ANALYZER	FSP40	R&S	100047	2004/12/16
14	PREAMPLIFIER	8449B	AGILENT	3008A01954	2005/01/04
15	HORN ANTENNA	3115	EMCO	31601	2005/01/13
16	HORN ANTENNA	3115	EMCO	31589	2005/01/14
17	HORN ANTENNA	3116	EMCO	31970	2005/01/29
18	HORN ANTENNA	3116	EMCO	31974	2005/01/29
19	EMI RECEIVER	8546A	HP	3807A00454	2005/02/12
20	RF FILTER SECTION	85460A	HP	3704A00386	2005/02/12
21	SIGNAL GENERATOR	83640A	HP	2927A00107	2006/03/16
22	ATTENUATOR	8491B	AGILENT	50703	2004/12/16
23	ATTENUATOR	8491B	AGILENT	50705	2004/12/16
24	TEMPERATURE CHAMBER	TMJ-9712	T MACHINE	T-12-040111	2005/03/05
25	HIGH PASS FILTER	84300-80038	HP	002	N/A
26	HIGH PASS FILTER	84300-80038	HP	006	N/A
27	DC Power Supply	GPD-3030	GM	7020936	N/A
28	AC POWER CONVERTER	AFC-11005	APC	F103120008	N/A