3.4. 6dB Bandwidth Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 09, 2004 Temperature: 24℃ Humidity: 62%

a) Channel 01: 6dB Emission Bandwidth is 11.1 MHz

b) Channel 06: 6dB Emission Bandwidth is 11.1 MHz

c) Channel 11: 6dB Emission Bandwidth is 11.1 MHz

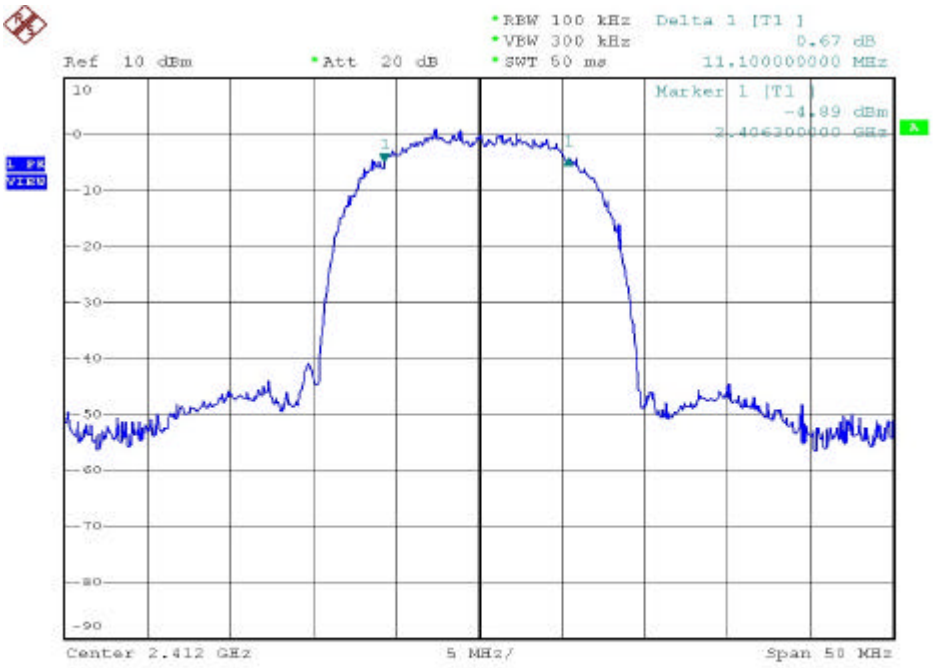
(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 09, 2004 Temperature: 24℃ Humidity: 62%

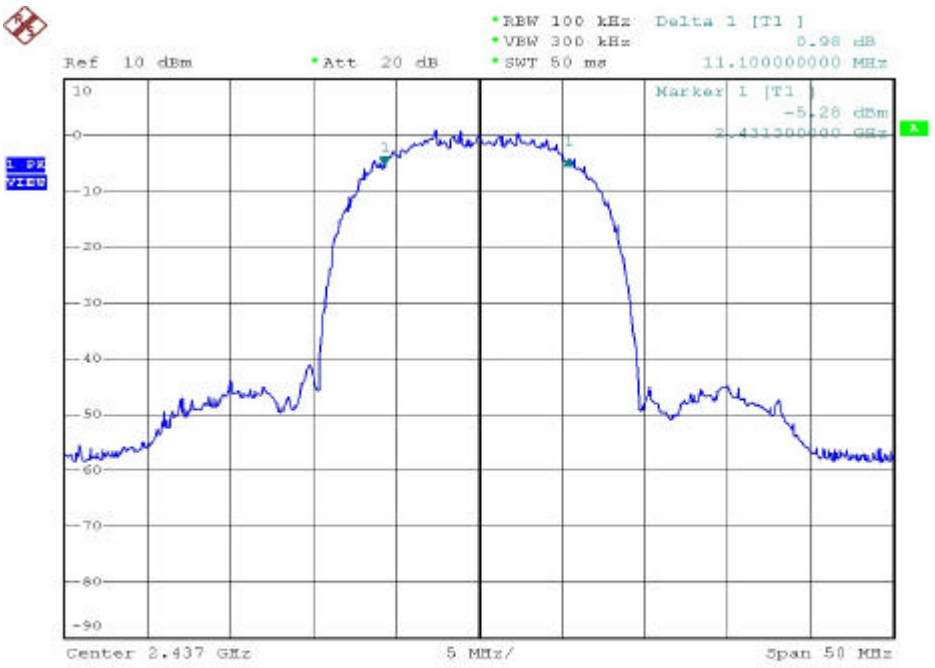
a) Channel 01: 6dB Emission Bandwidth is 16.5 MHz

b) Channel 06: 6dB Emission Bandwidth is 16.5 MHz

c) Channel 11: 6dB Emission Bandwidth is 16.5 MHz



Date: 9.SEP.2004 16:05:10



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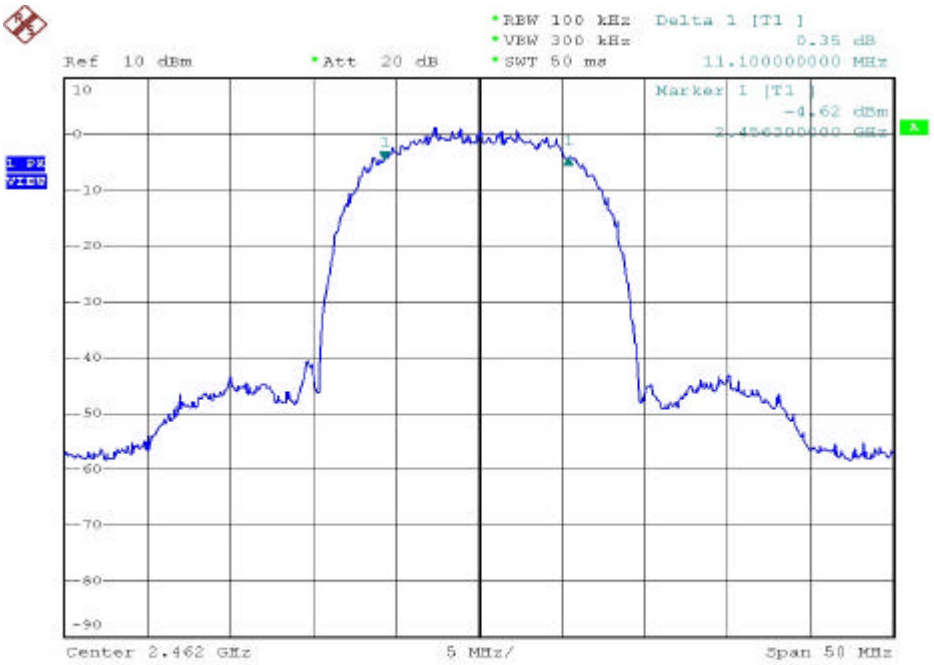

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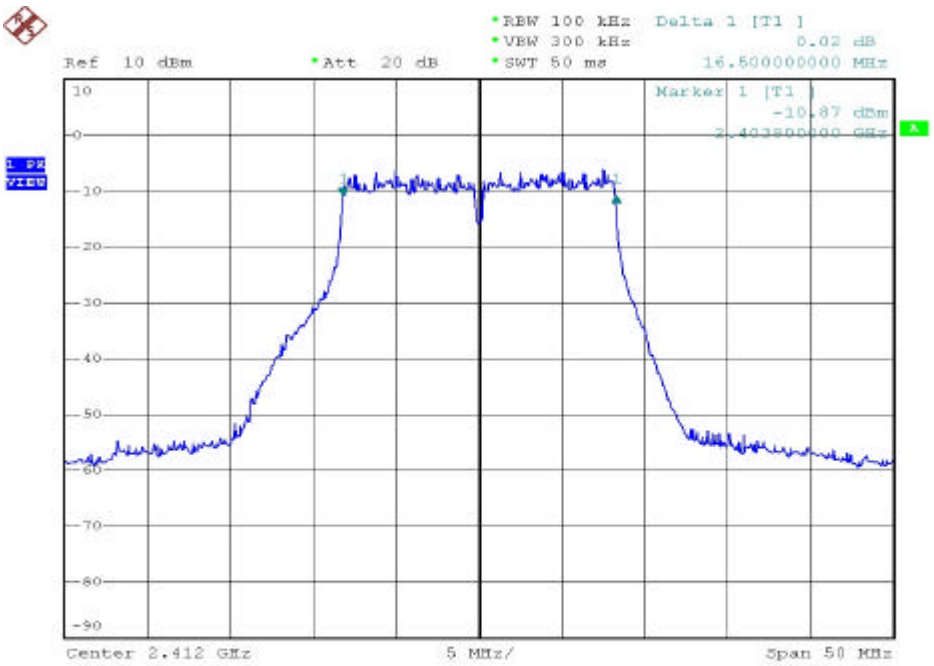

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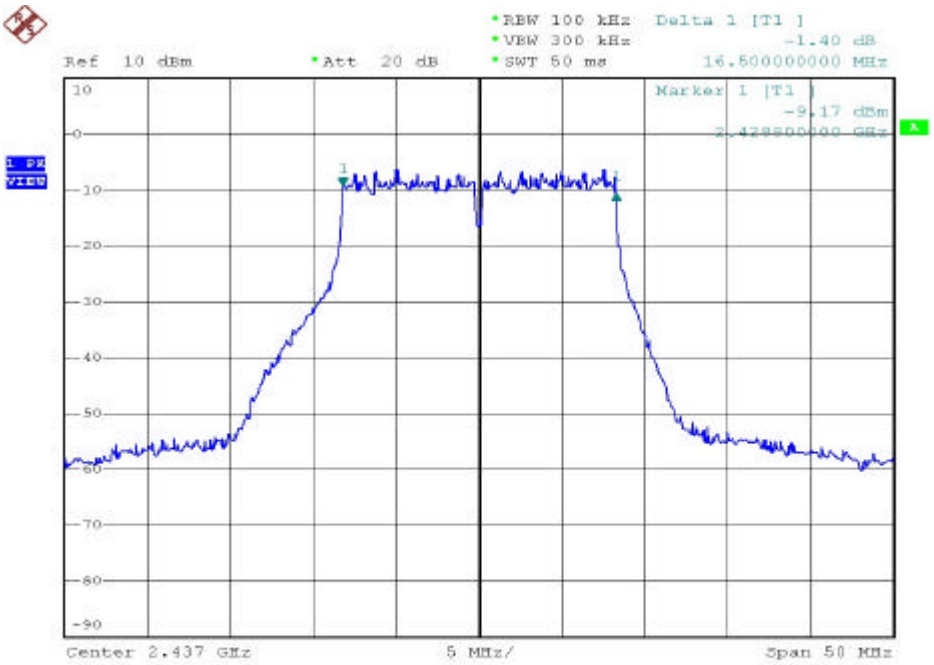

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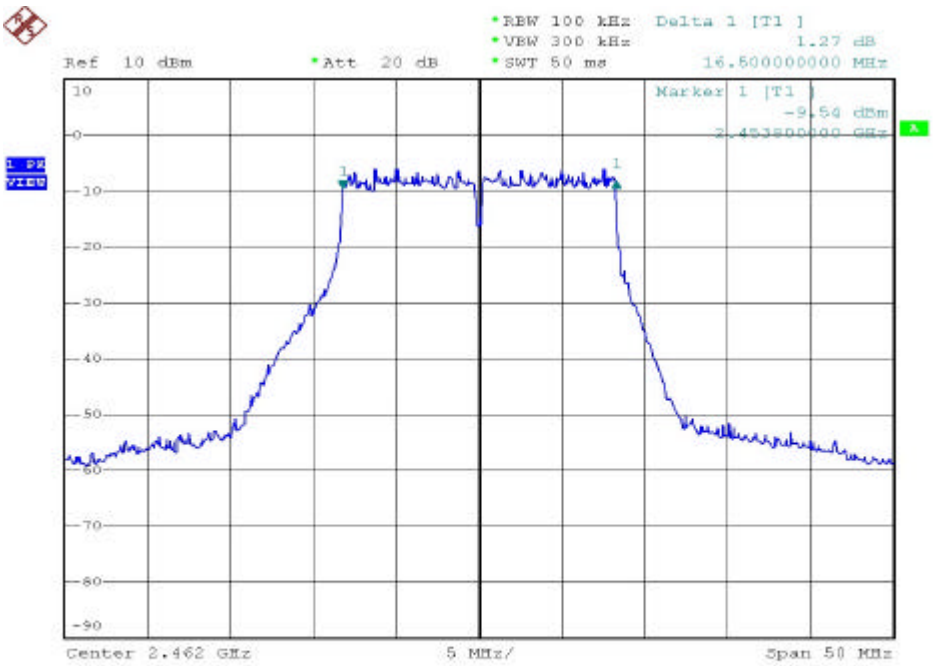


Date: 9.SEP.2004 16:23:10

3.5. Peak Output Power Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 09, 2004 Temperature: 24℃ Humidity: 62%

a) Channel 01: Output Peak Power is 15.16 dBm or 32.810 mW

b) Channel 06: Output Peak Power is 15.17 dBm or 32.885 mW

c) Channel 11: Output Peak Power is 15.32 dBm or 34.041 mW

(2) Modulation Standard: IEEE 802.11g

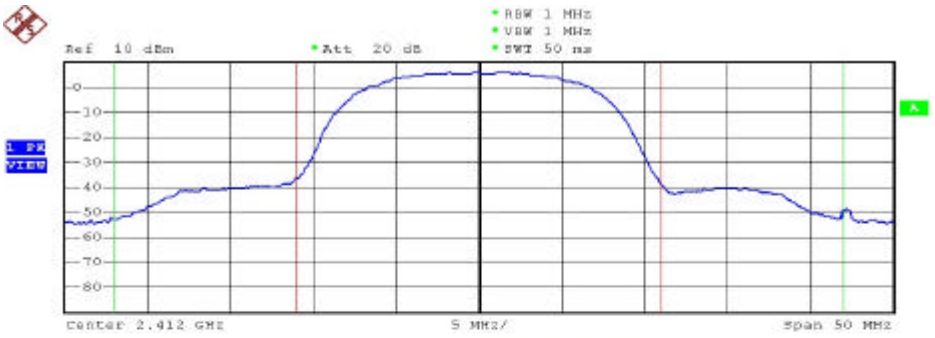
Test Date: Sep. 09, 2004 Temperature: 24℃ Humidity: 62%

a) Channel 01: Output Peak Power is 13.58 dBm or 22.803 mW

b) Channel 06: Output Peak Power is 13.36 dBm or 21.677 mW

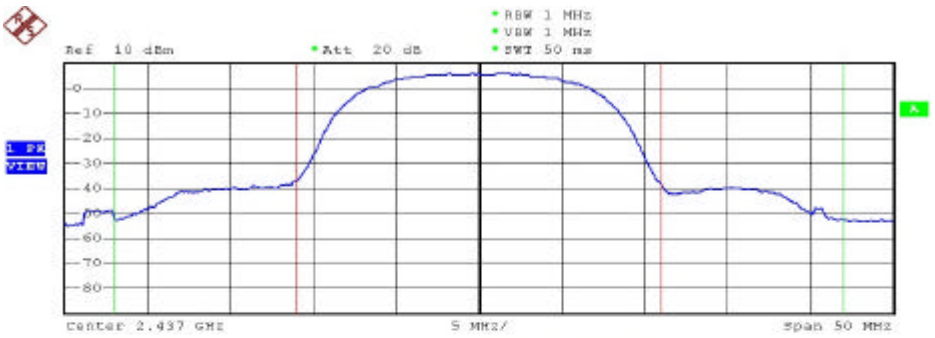
c) Channel 11: Output Peak Power is 13.63 dBm or 23.067 mW

Note: Conducted Power = Reading Value + Cable Loss



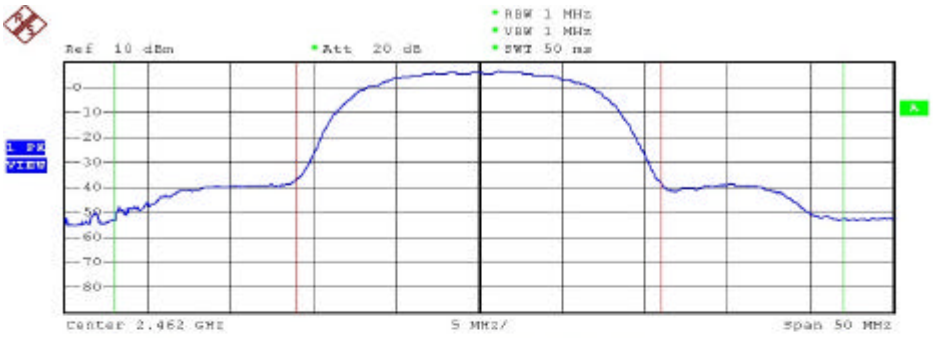
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.16 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-46.77 dB
Spacing	16.5 MHz	Upper	-47.92 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 10.SEP.2004 17:57:46



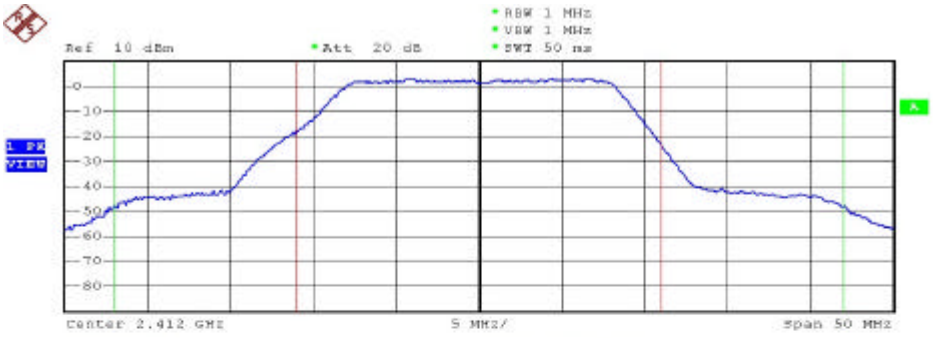
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.17 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-46.65 dB
Spacing	16.5 MHz	Upper	-47.52 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 10.SEP.2004 17:59:33



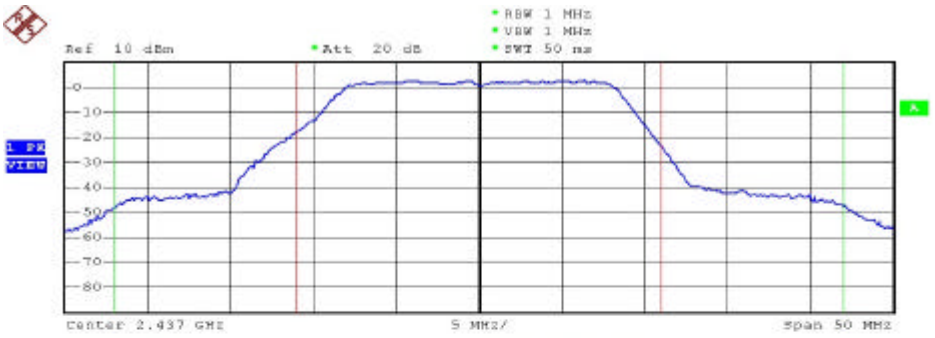
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.32 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-46.45 dB
Spacing	16.5 MHz	Upper	-46.94 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 10.SEP.2004 18:01:09



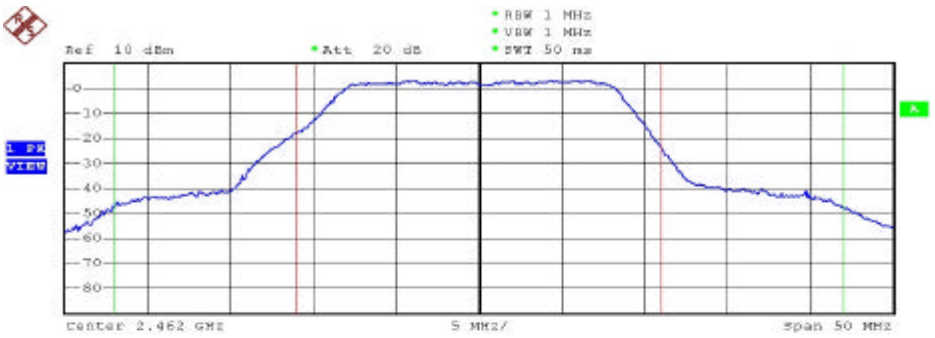
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.58 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-32.19 dB
Spacing	16.5 MHz	Upper	-39.44 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 10.SEP.2004 18:03:13



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.36 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-32.01 dB
Spacing	16.5 MHz	Upper	-39.26 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 10.SEP.2004 18:05:21



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.63 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-32.12 dB
Spacing	16.5 MHz	Upper	-39.40 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 10.SEP.2004 18:08:09

3.6. Band Edges Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 09, 2004 Temperature: 24℃ Humidity: 62%

a) Lower Band Edge: maximum value is -41.46 dBm that is attenuated more than 20dB

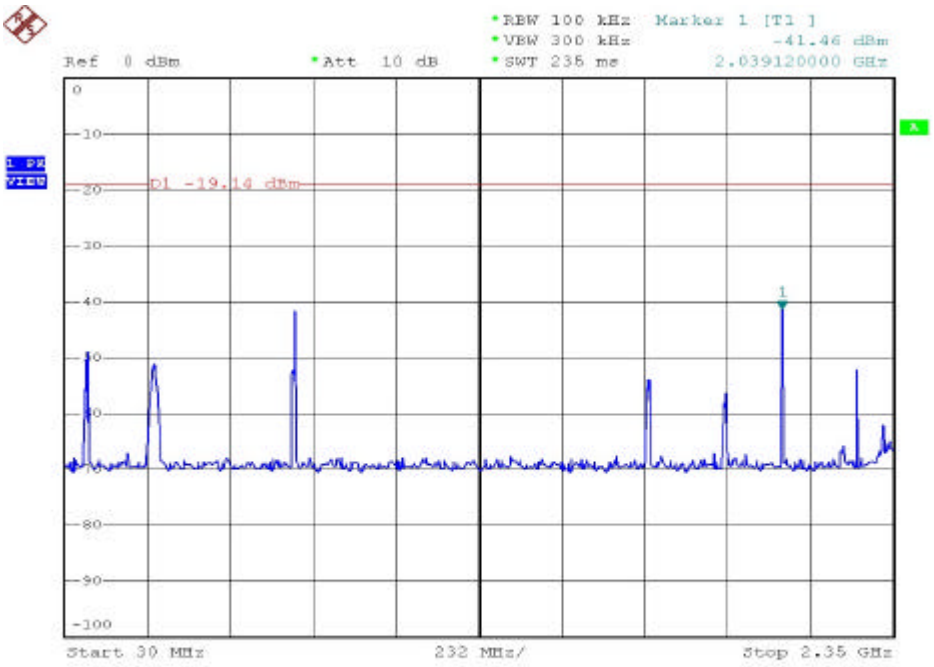
b) Upper Band Edge: maximum value is -41.31 dBm that is attenuated more than 20dB

(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 09, 2004 Temperature: 24℃ Humidity: 62%

a) Lower Band Edge: maximum value is -39.87 dBm that is attenuated more than 20dB

b) Upper Band Edge: maximum value is -41.62 dBm that is attenuated more than 20dB



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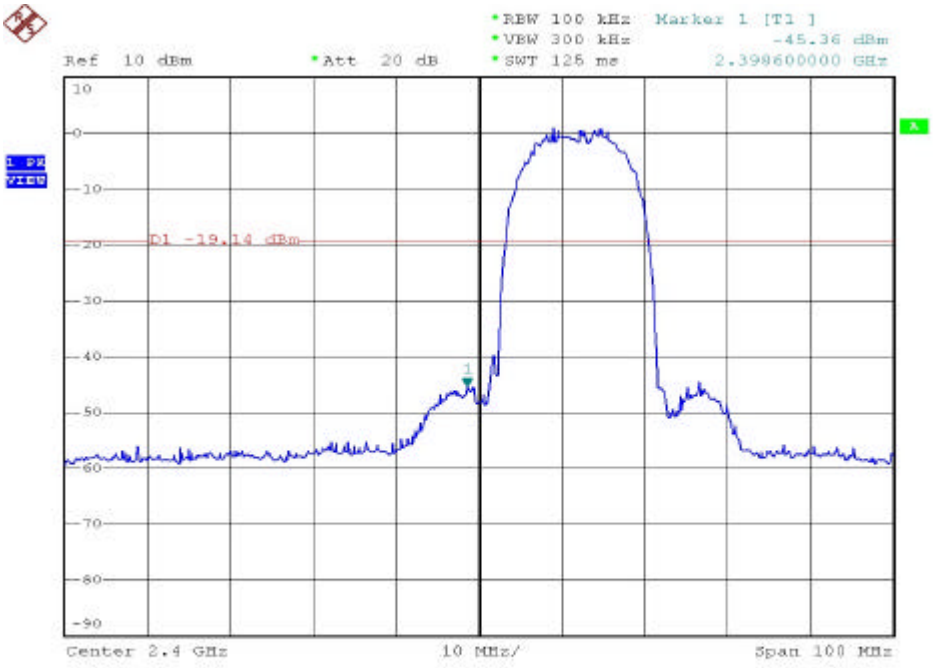

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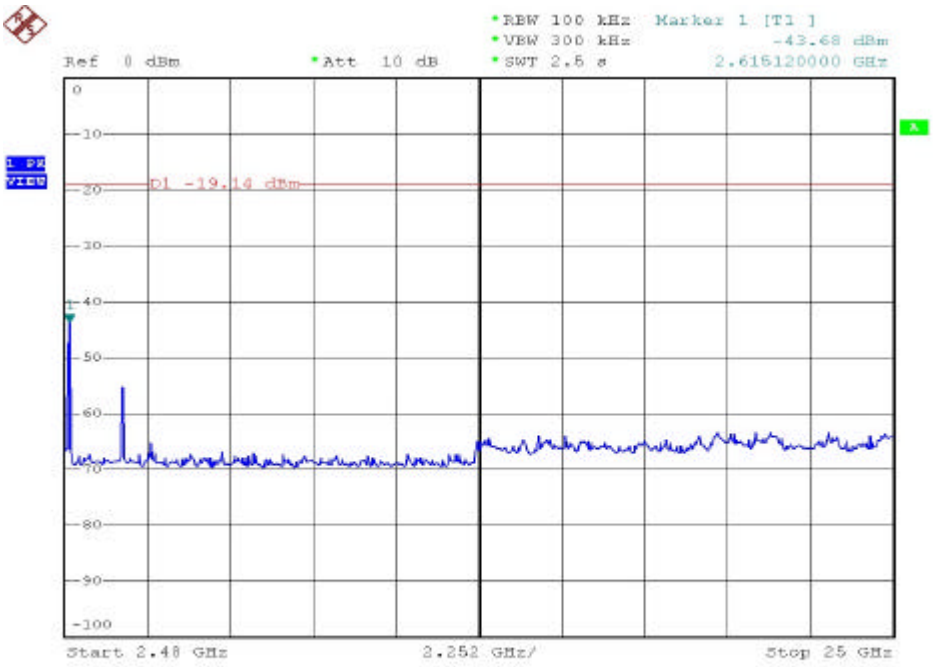

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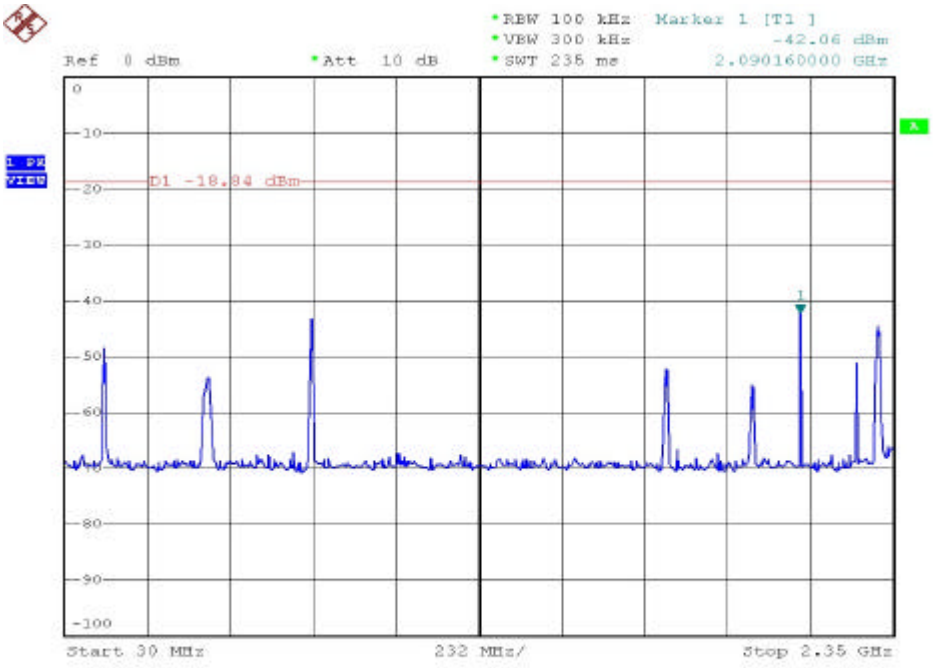

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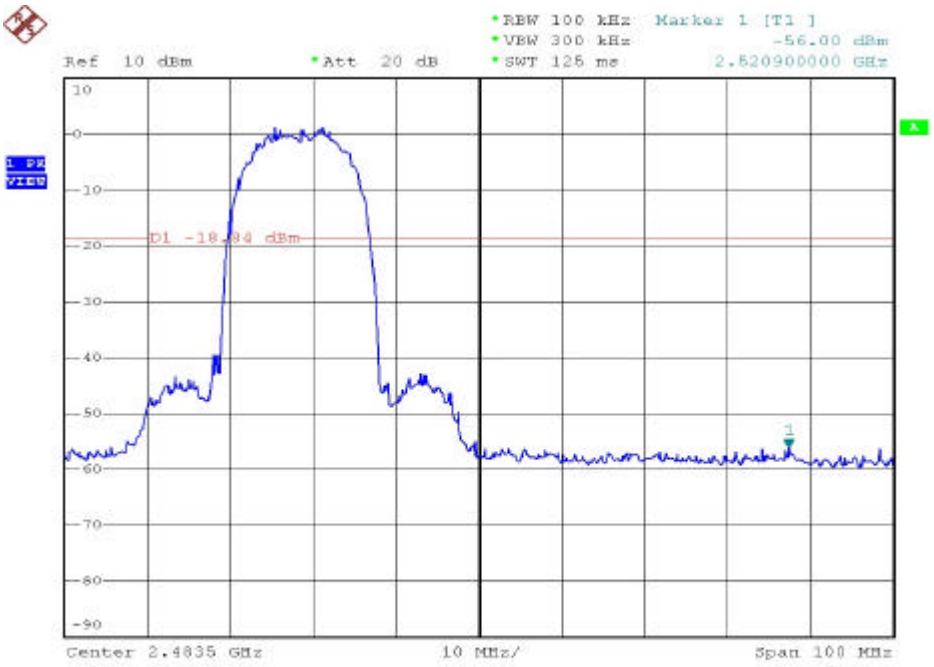

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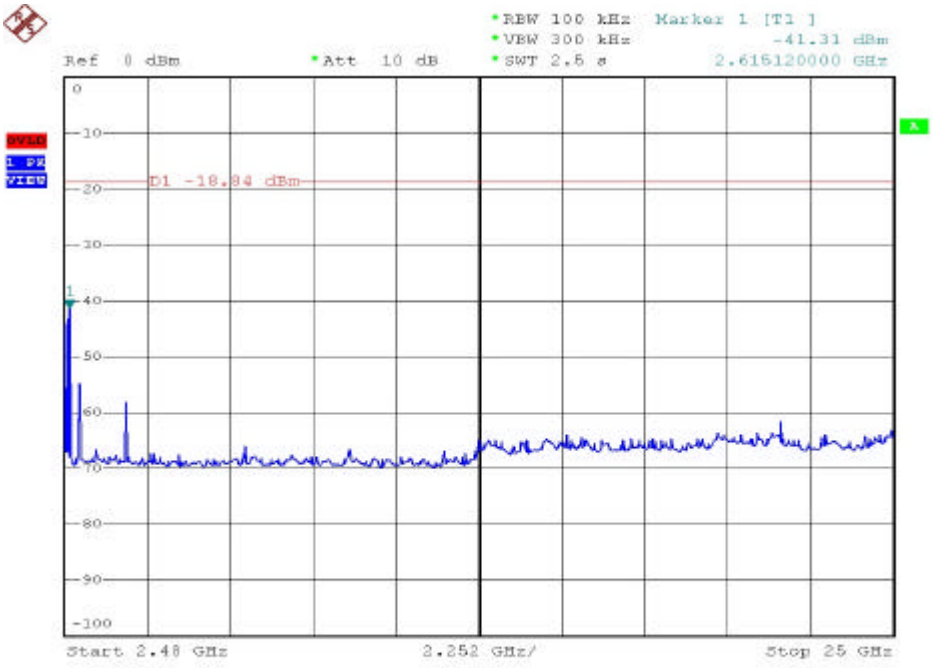

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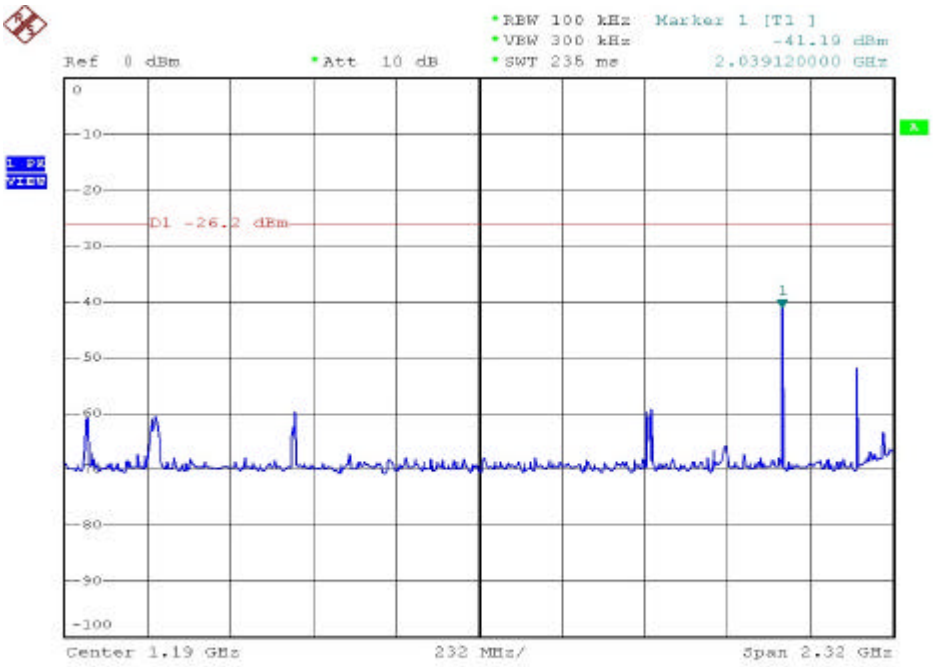

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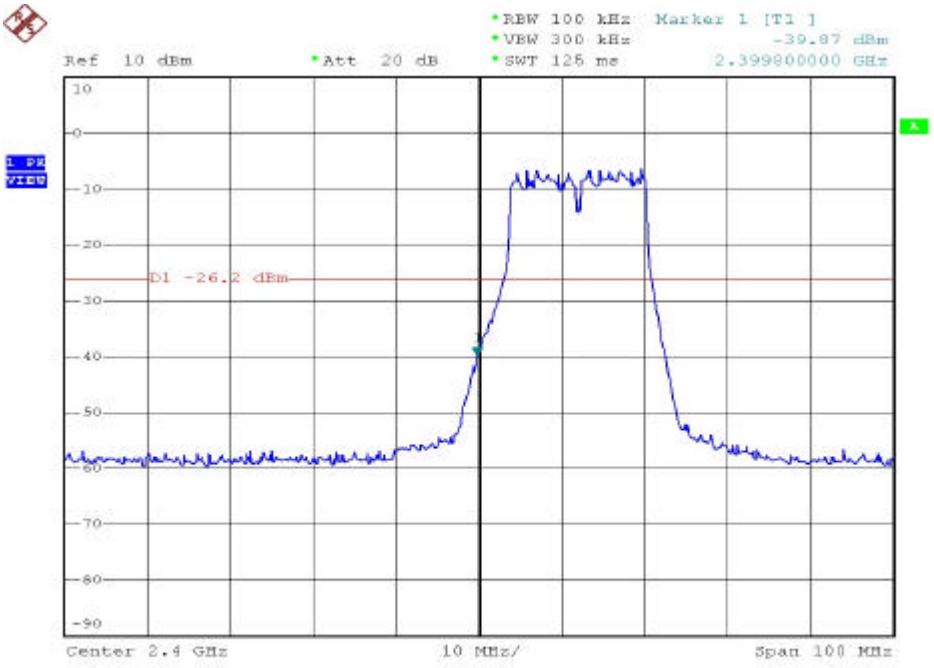

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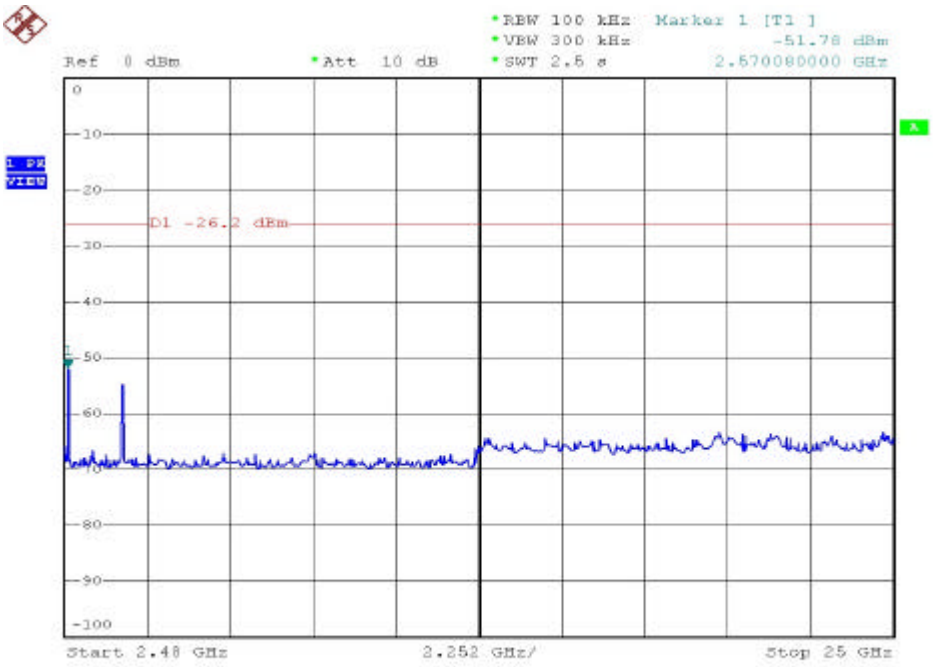

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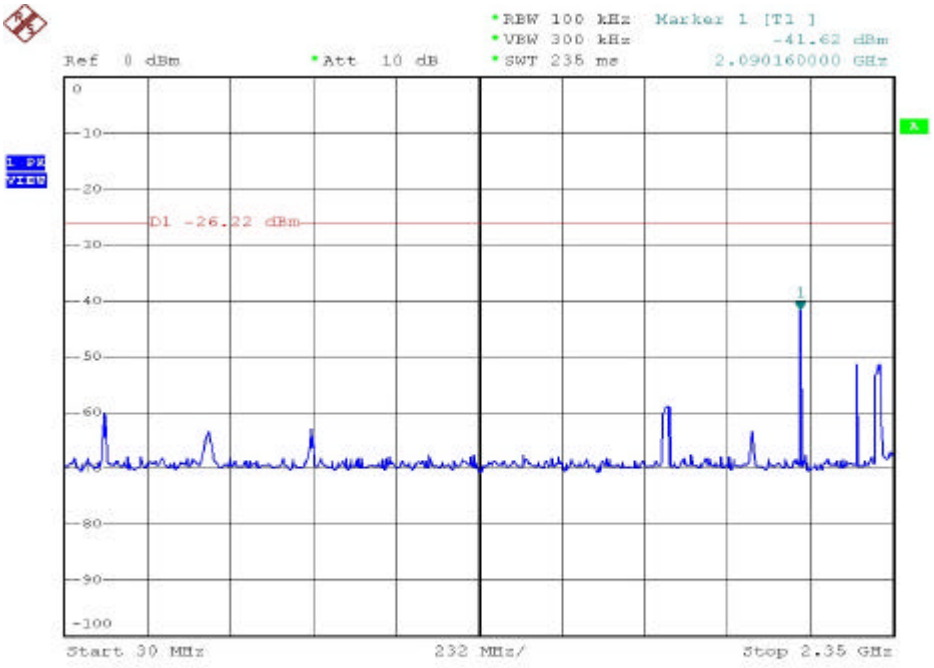

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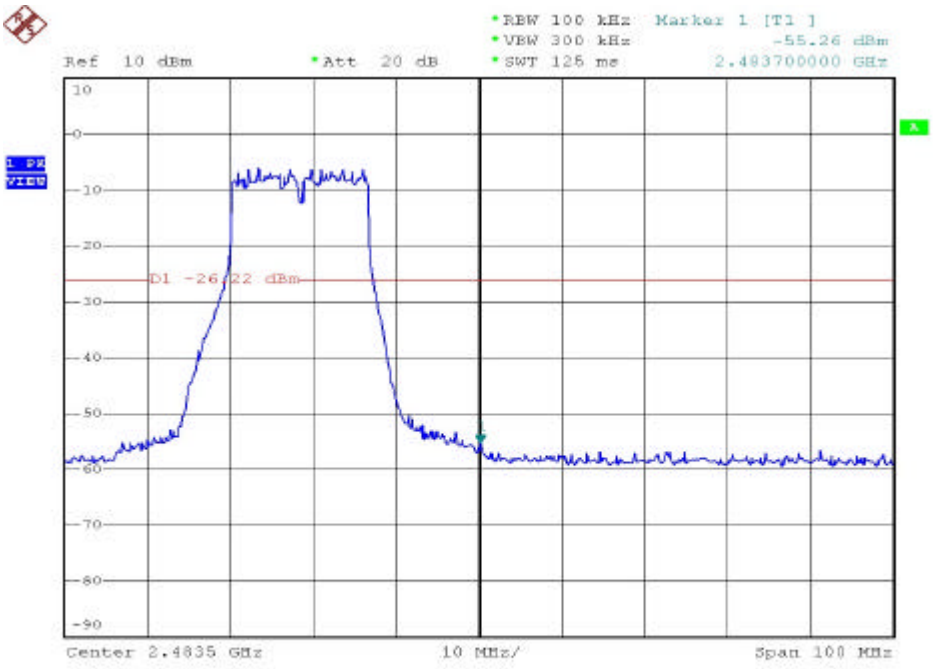

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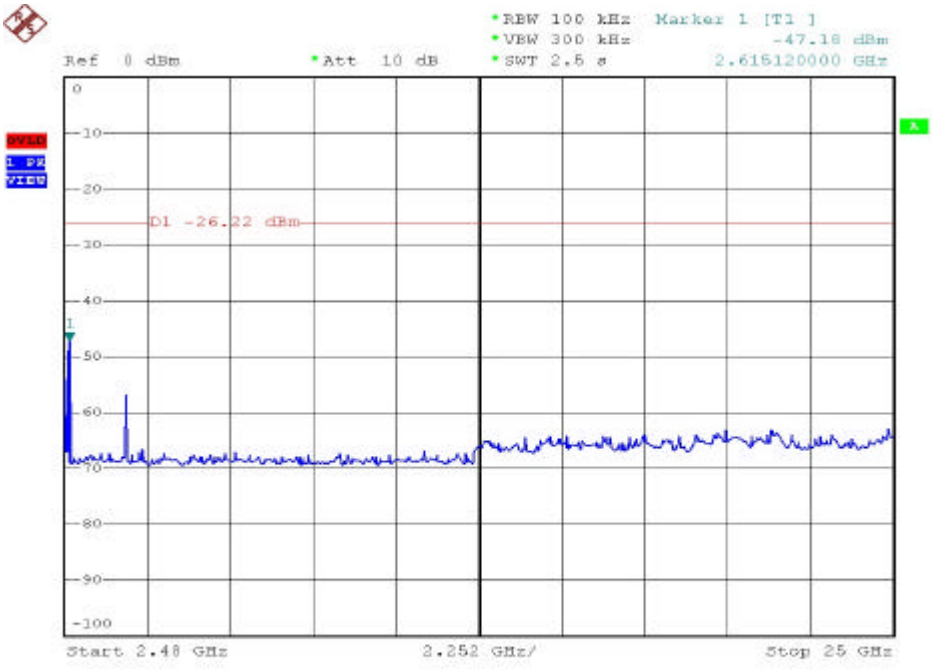


Date: 9.SEP.2004 16:00:09

3.6.1. Note on Band edge Emission

Modulation Standard: IEEE 802.11b

Test Date: Sep. 10, 2004 Temperature: 25℃ Humidity: 61%

a) Channel 1

Fundamental Frequency: 2412 MHz

Frequency (MHz)	Level (dBV)	Polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2382.216	50.33	H	Peak	74	54	-23.67	190	1
2382.216	---	H	Ave.	74	54	---	---	---
2389.764	53.42	V	Peak	74	54	-20.58	186	1
2389.764	---	V	Ave.	74	54	---	---	---

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.			
2497.416	49.65	H	Peak	74	54	-24.35	177	1
2497.416	---	H	Ave.	74	54	---	---	---
2484.040	56.17	V	Peak	74	54	-17.83	182	1
2483.508	40.37	V	Ave.	74	54	-23.63	170	1

Modulation Standard: IEEE 802.11g

Test Date: Sep. 10, 2004 Temperature: 25℃ Humidity: 61%

a) Channel 1

Fundamental Frequency: 2412 MHz

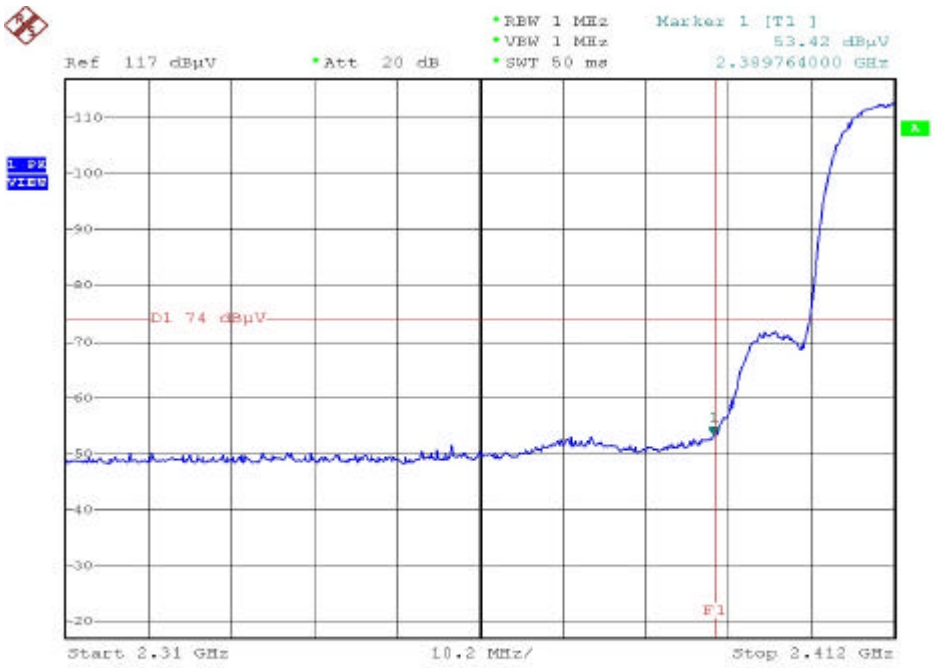
Frequency (MHz)	Level (dBuV)	Polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2346.516	49.41	H	Peak	74	54	-24.59	169	1
2346.516	---	H	Ave.	74	54	---	---	---
2389.968	53.87	V	Peak	74	54	-20.13	172	1
2389.968	---	V	Peak	74	54	---	---	---

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.			
2495.820	49.81	H	Peak	74	54	-24.19	174	1
2495.820	---	H	Ave.	74	54	---	---	---
2484.192	61.86	V	Peak	74	54	-12.14	180	1
2483.584	42.96	V	Ave.	74	54	-11.04	185	1

Modulation Standard: IEEE 802.11b
Pol/Phase: Vertical



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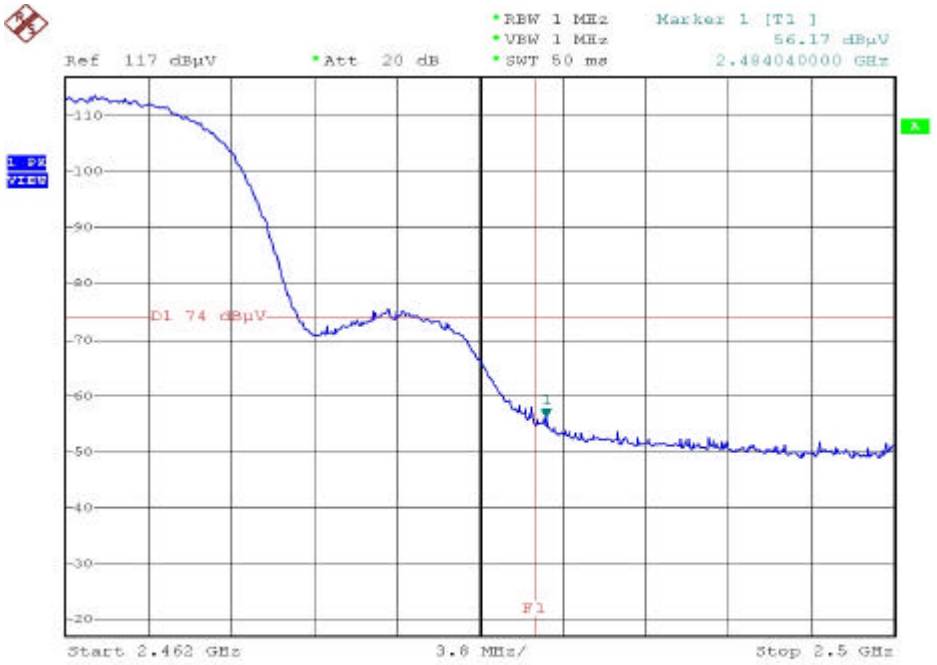
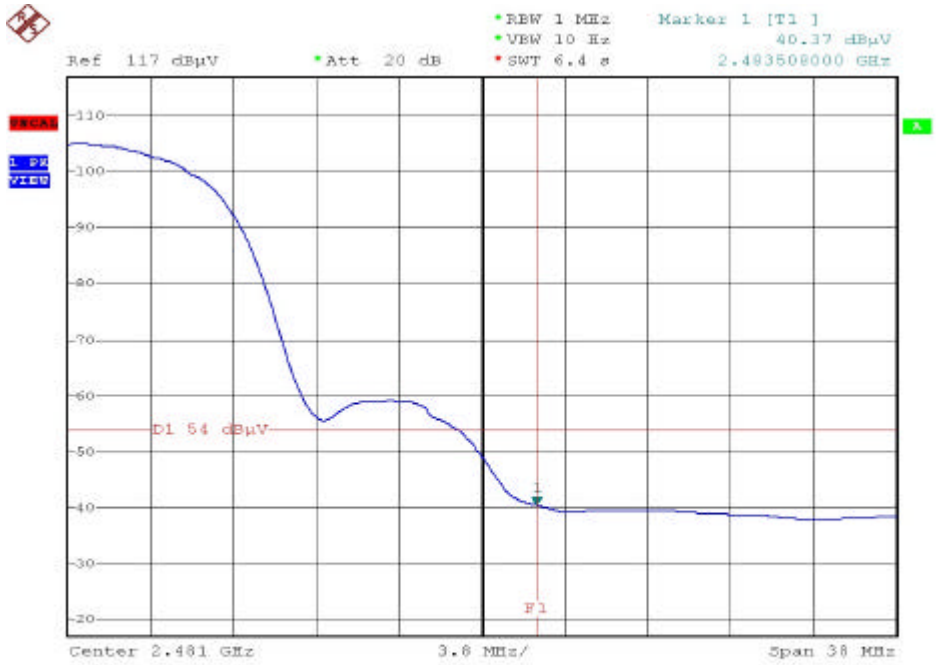
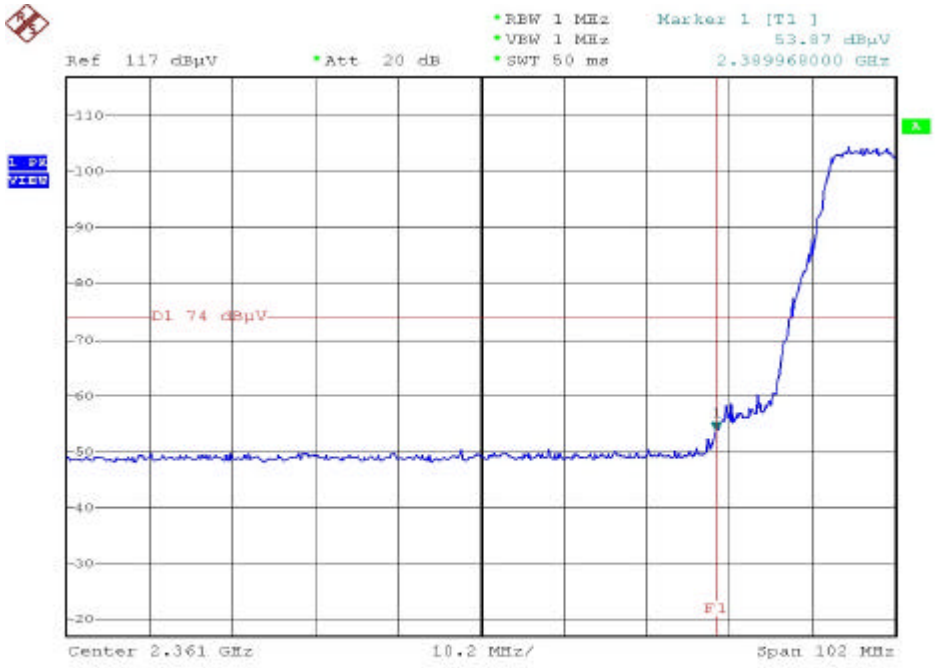


Date: 10.SEP.2004 11:02:10



Date: 10.SEP.2004 11:04:06

Modulation Standard: IEEE 802.11g
Pol/Phase: Vertical



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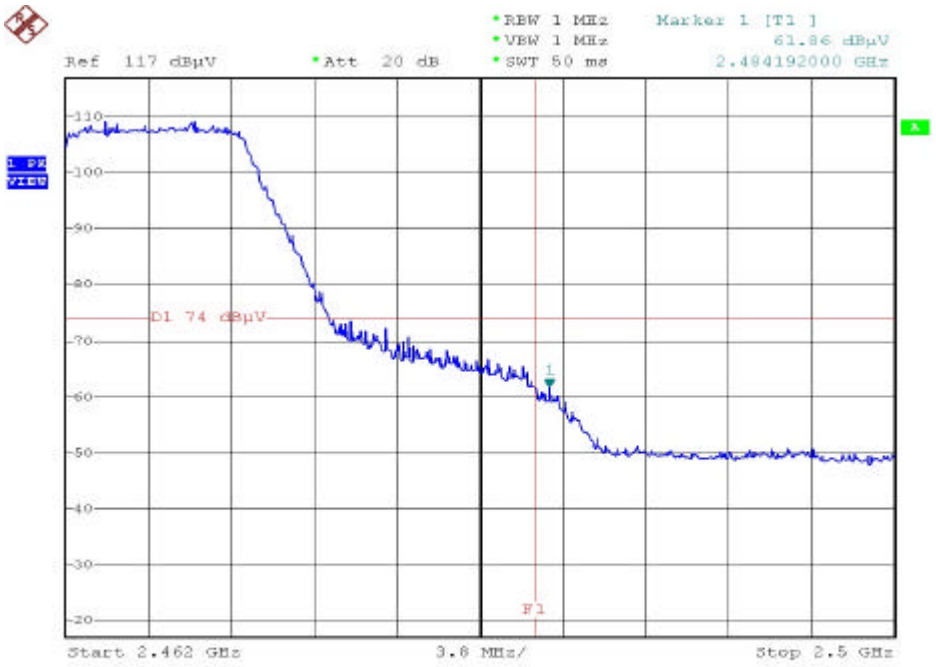

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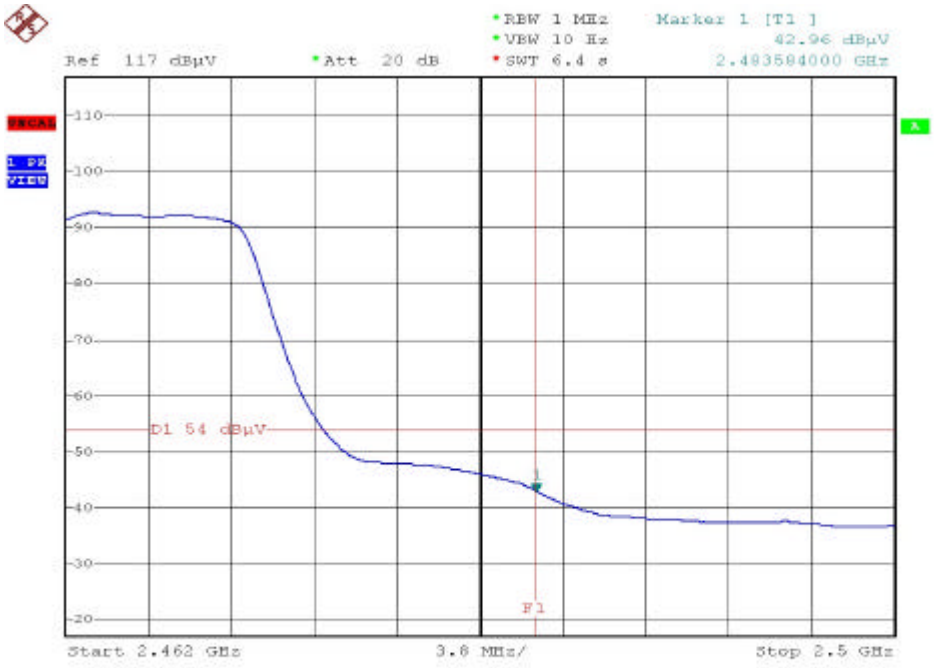


Date: 10.SEP.2004 10:56:18

3.7. Power Spectral Density Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 09, 2004 Temperature: 24℃ Humidity: 62%

a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -14.90 dBm

b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -14.92 dBm

c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -14.62 dBm

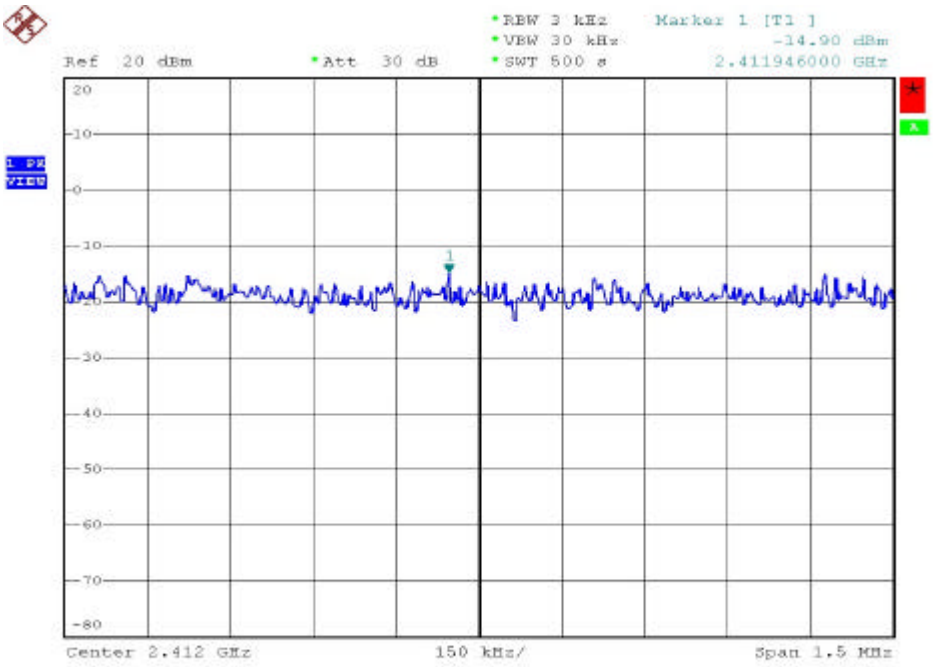
(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 09, 2004 Temperature: 24℃ Humidity: 62%

a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -19.80 dBm

b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -19.50 dBm

c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -19.36 dBm



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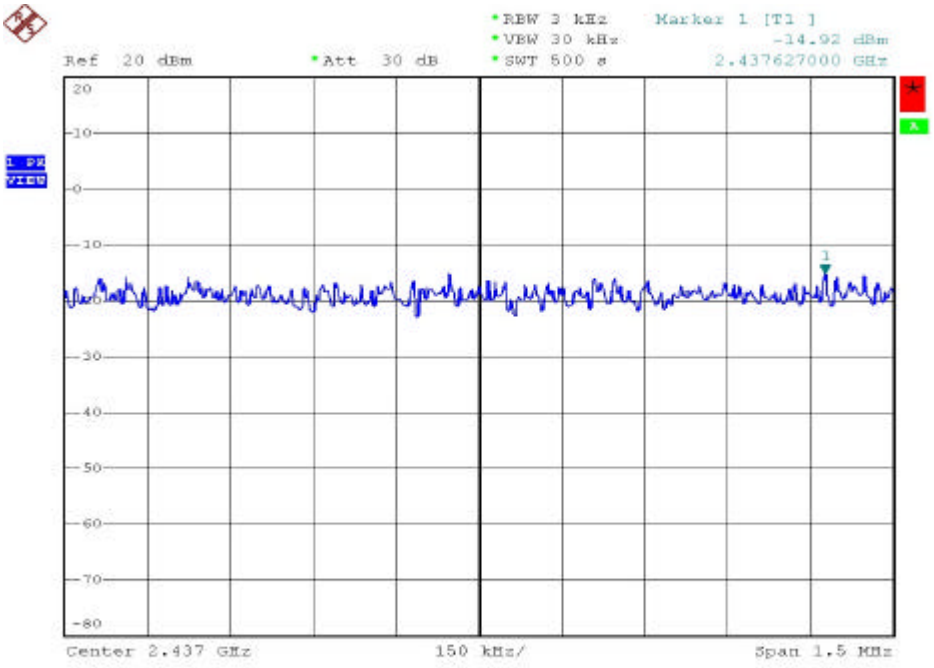

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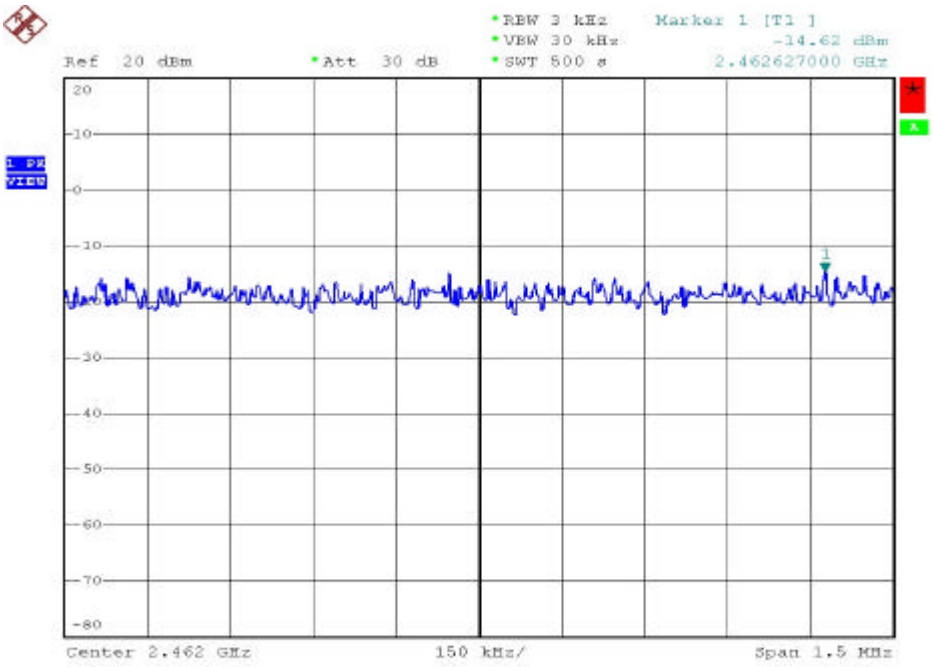

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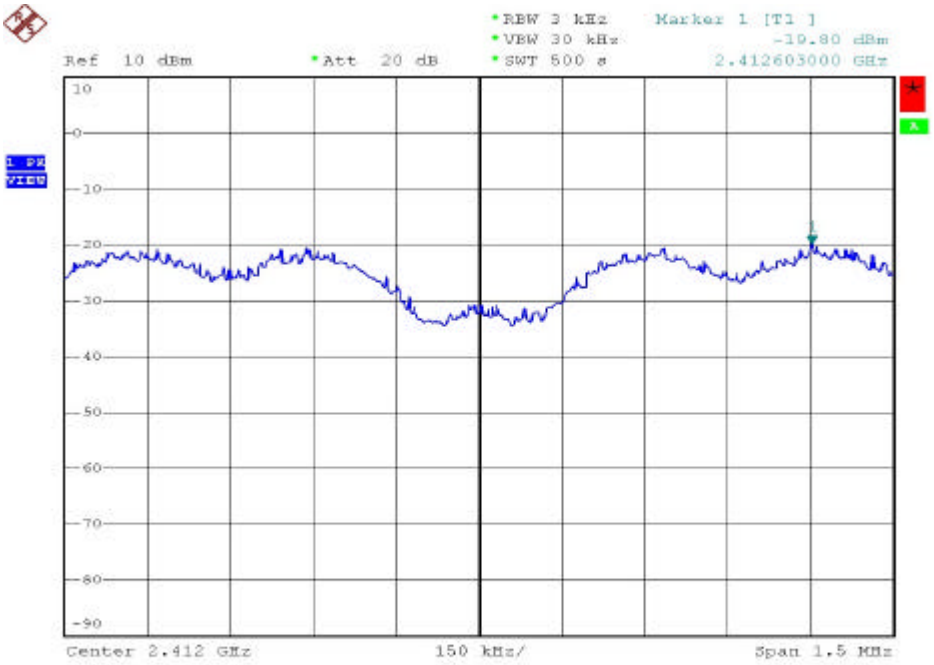
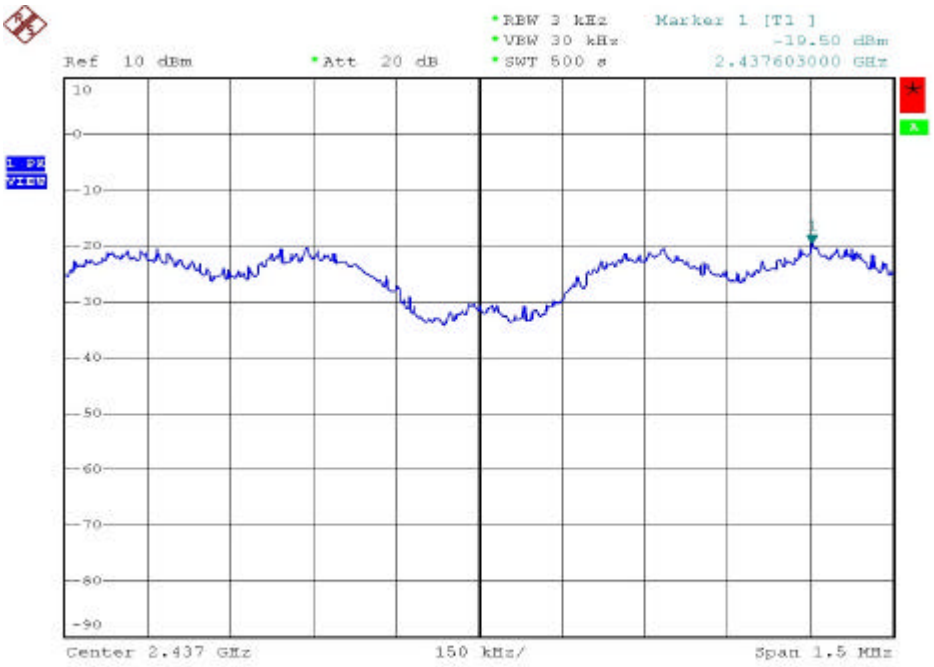
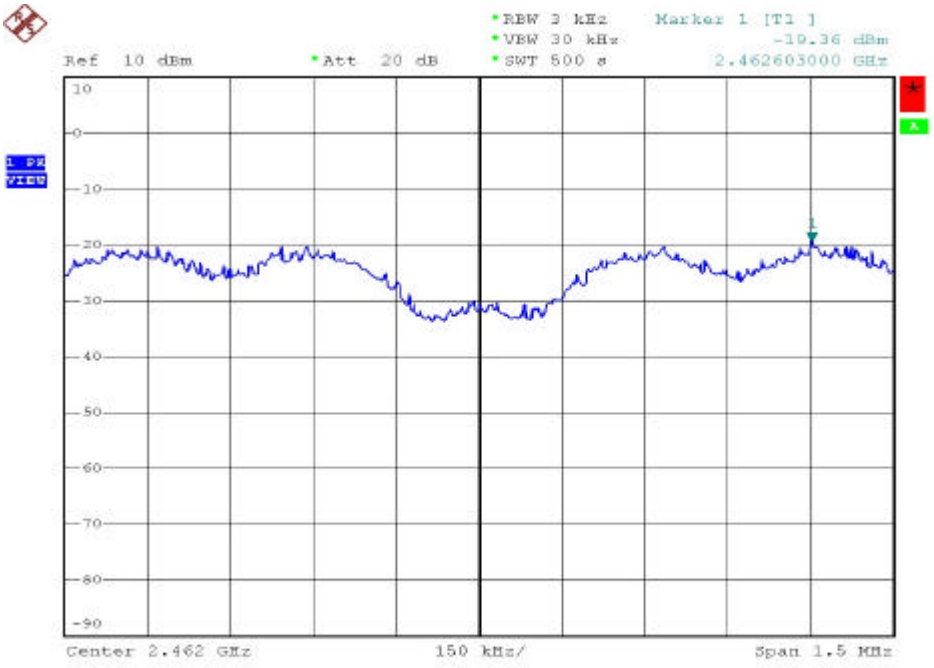




Date: 9.SEP.2004 15:16:04



Date: 9.SEP.2004 15:26:44

4. 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	2006/02/09
5	Spectrum Analyzer	8594E	HP	3520A01913	2005/01/15
6	Amplifier	8447D	Agilent	2944A10593	2004/10/09
7	Amplifier	8447D	Agilent	2944A10531	2005/06/30
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	2005/01/13
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	2006/04/02
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	2005/02/05
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