

4.6.1. Note on Band edge Emission

Antenna type 1:

Modulation Standard: IEEE 802.11b

Test Date: Sep. 24, 2004 Temperature: 27 Humidity: 65%

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.			
2320.028	51.10	H	Peak	74	54	-22.90	199	1.5
2320.028	---	H	Ave.	74	54	---	---	---
2319.996	56.60	V	Peak	74	54	-17.40	200	1.5
2319.996	44.31	V	Ave.	74	54	-9.69	190	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.			
2499.392	50.34	H	Peak	74	54	-23.66	197	1.5
2499.392	---	H	Ave.	74	54	---	---	---
2485.864	53.48	V	Peak	74	54	-20.52	188	1.5
2486.016	42.48	V	Ave.	74	54	-11.52	211	1.5

Modulation Standard: IEEE 802.11g

Test Date: Sep. 24, 2004 Temperature: 27 Humidity: 65%

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.			
2320.232	51.32	H	Peak	74	54	-22.68	206	1.5
2320.232	---	H	Ave.	74	54	---	---	---
2320.404	53.10	V	Peak	74	54	-20.90	204	1.5
2319.996	46.46	V	Ave.	74	54	-7.54	197	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.			
2496.428	50.44	H	Peak	74	54	-23.56	209	1.5
2496.428	---	H	Ave.	74	54	---	---	---
2485.940	54.94	V	Peak	74	54	-19.06	192	1.5
2486.016	43.59	V	Ave.	74	54	-10.41	196	1.5

Antenna type 2:

Modulation Standard: IEEE 802.11b

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

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.			
2319.996	49.31	H	Peak	74	54	-24.69	210	1
2319.996	---	H	Ave.	74	54	---	---	---
2376.096	56.01	V	Peak	74	54	-17.99	173	1
2310.000	44.73	V	Ave.	74	54	-9.27	185	1

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.			
2493.768	49.18	H	Peak	74	54	-24.82	195	1
2493.768	---	H	Ave.	74	54	---	---	---
2486.092	53.88	V	Peak	74	54	-20.12	169	1
2486.092	42.92	V	Ave.	74	54	-11.08	172	1

Modulation Standard: IEEE 802.11g

Test Date: Sep. 27, 2004 Temperature: 27 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.			
2349.780	49.28	H	Peak	74	54	-24.72	215	1
2349.780	---	H	Ave.	74	54	---	---	---
2310.000	53.99	V	Peak	74	54	-20.01	177	1
2310.000	46.20	V	Ave.	74	54	-7.80	192	1

b) Channel 11

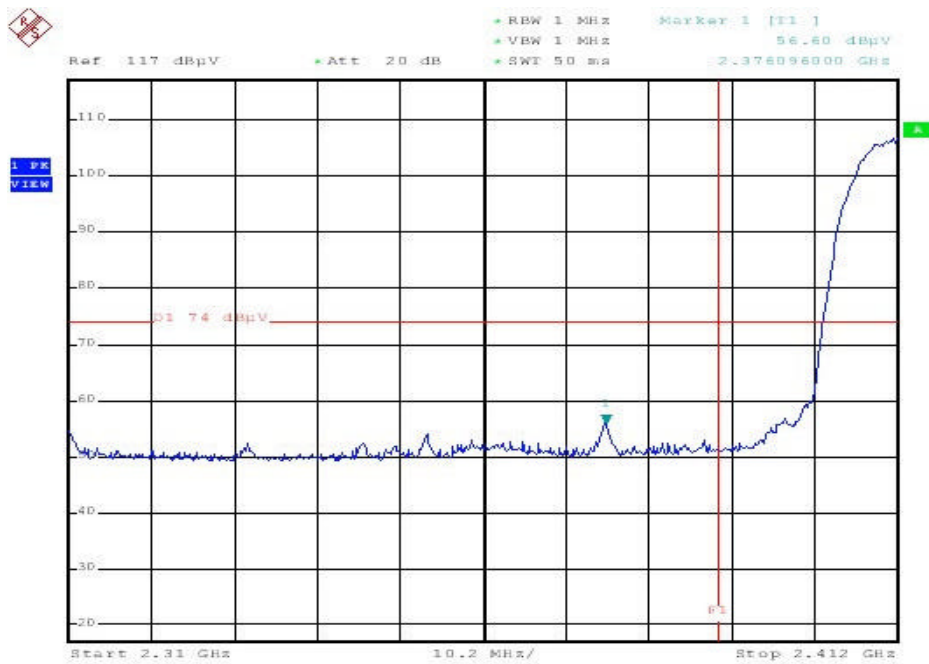
Fundamental Frequency: 2462 MHz

Frequency (MHz)	Level (dBuV)	Polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2489.588	49.04	H	Peak	74	54	-24.96	205	1
2489.588	---	H	Ave.	74	54	---	---	---
2485.940	54.79	V	Peak	74	54	-19.21	182	1
2485.940	43.23	V	Ave.	74	54	-10.70	195	1

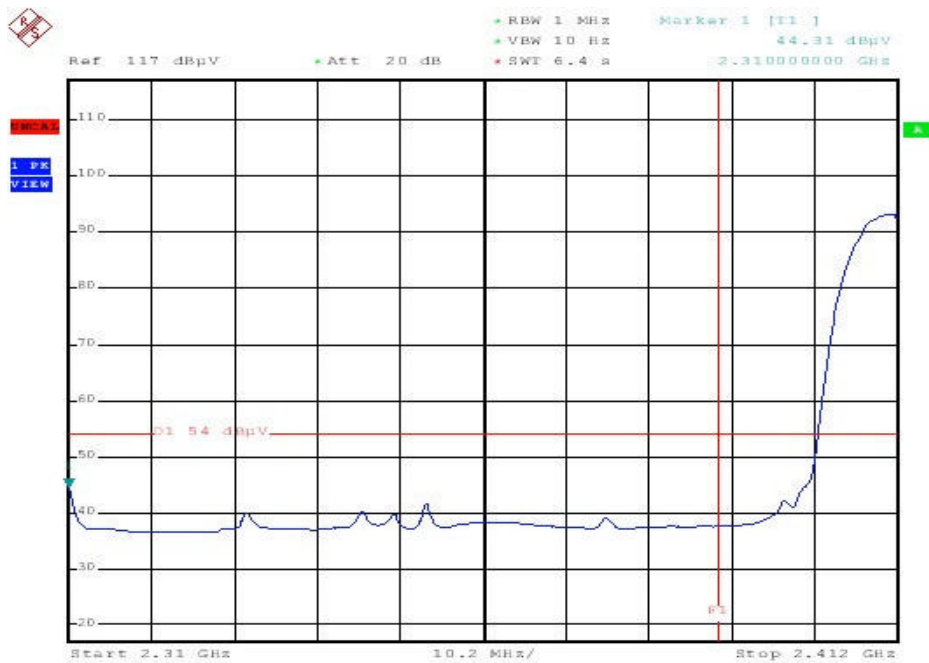
Antenna type 1:

Modulation Standard: IEEE 802.11b

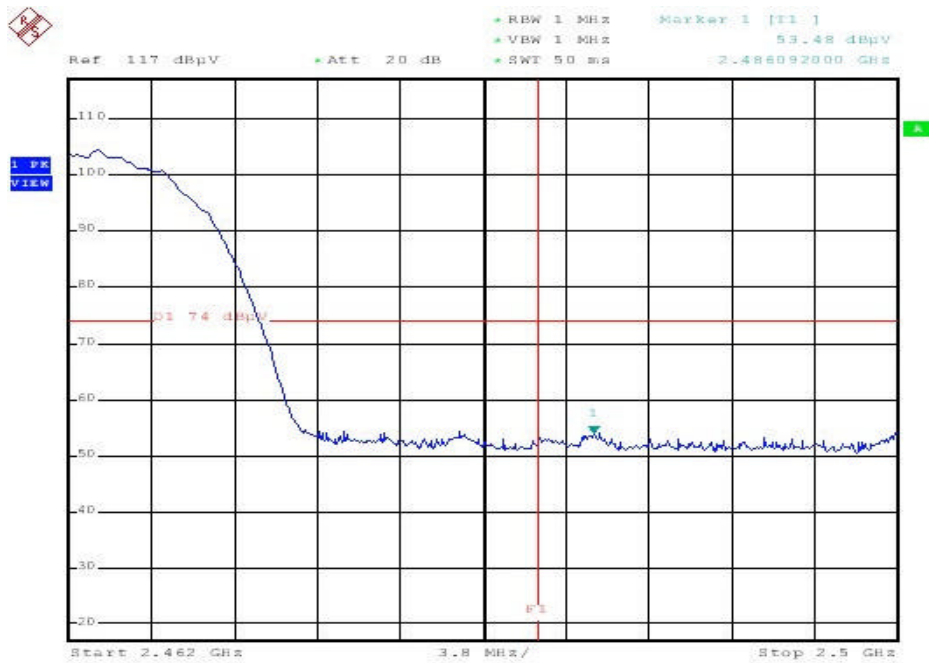
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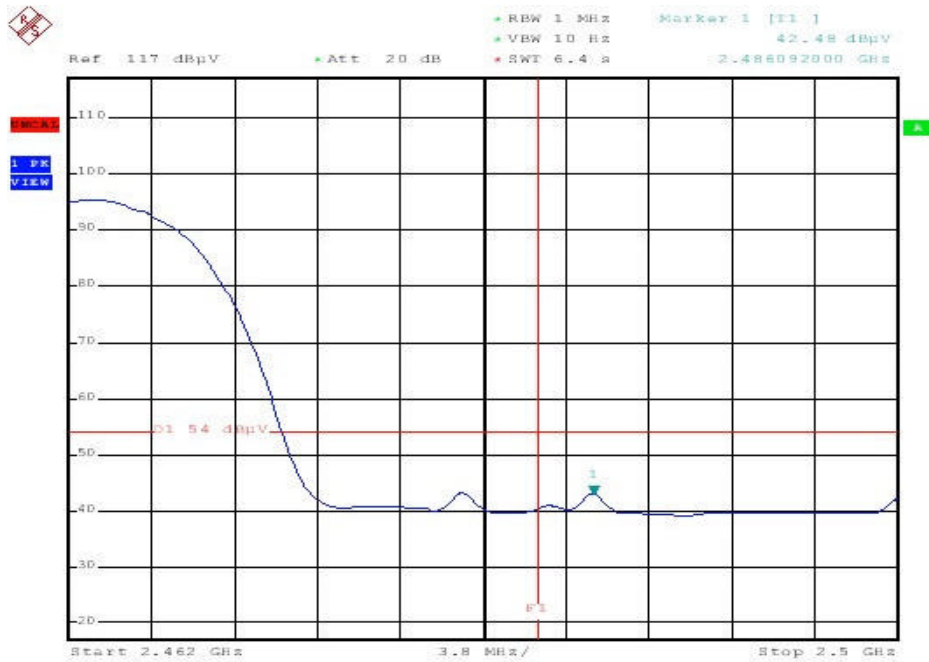
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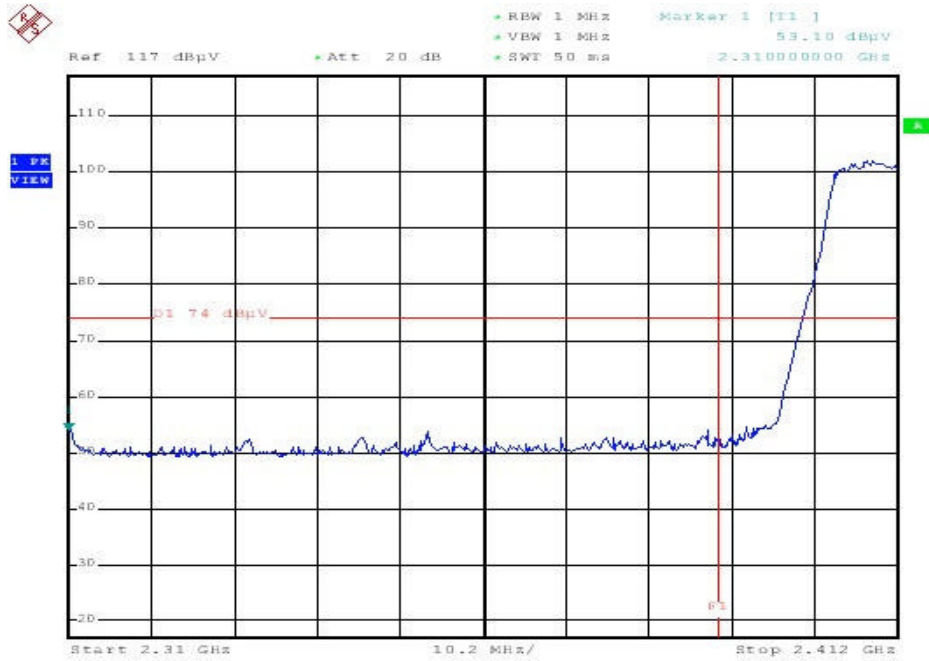


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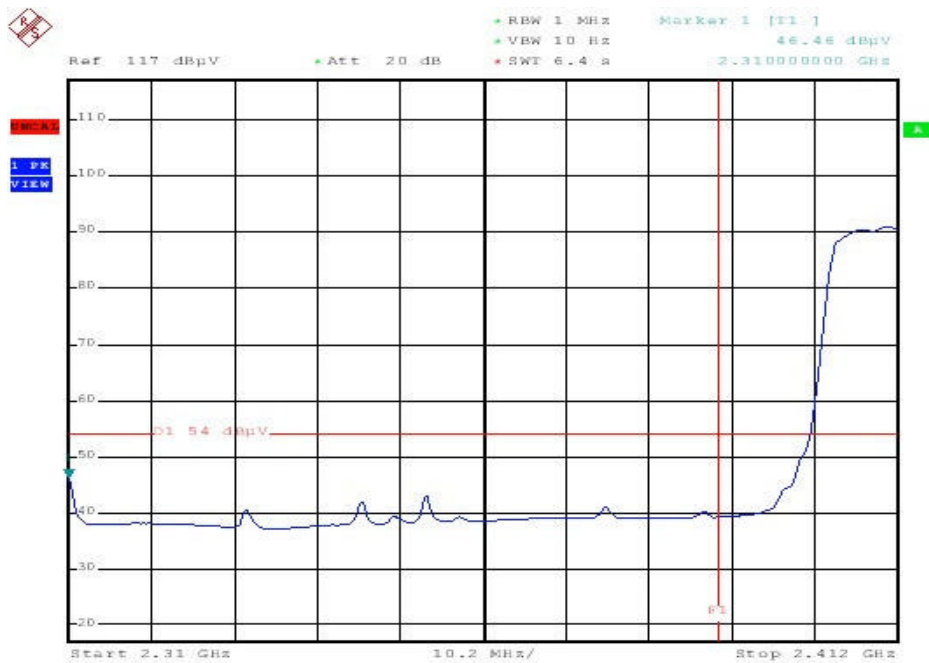


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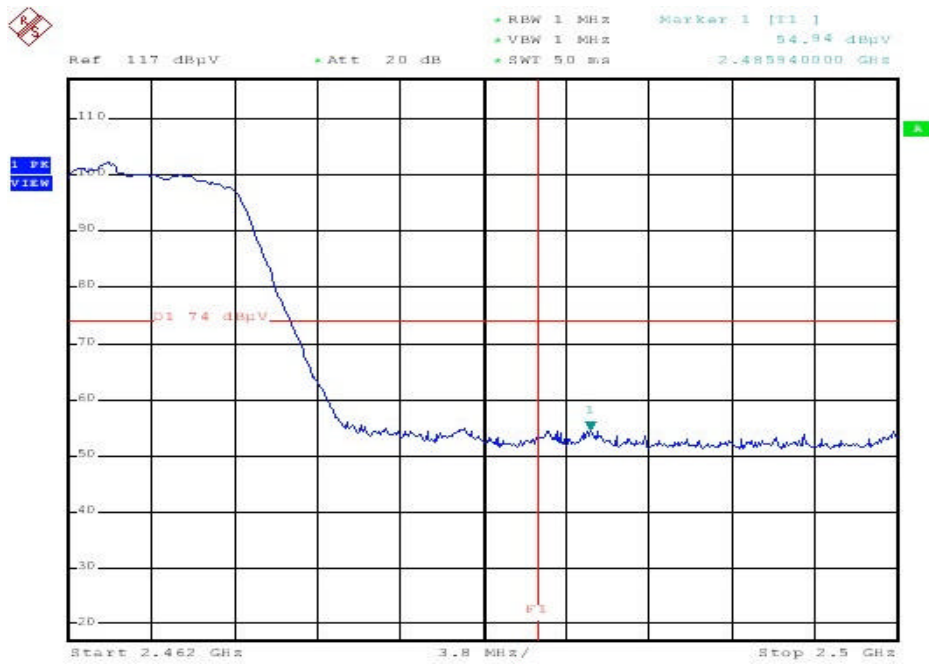
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Pol/Phase: Vertical



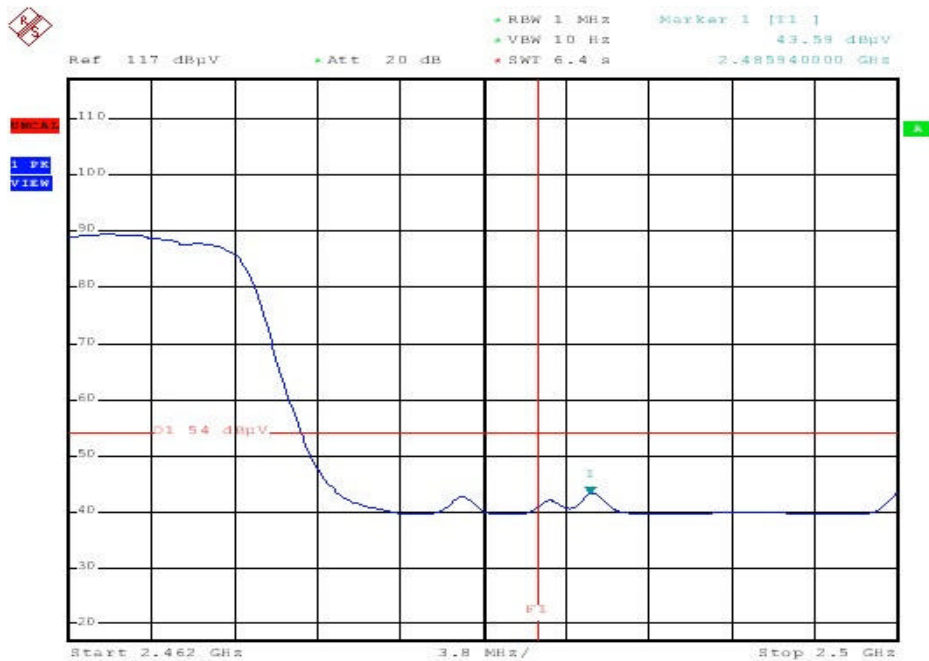
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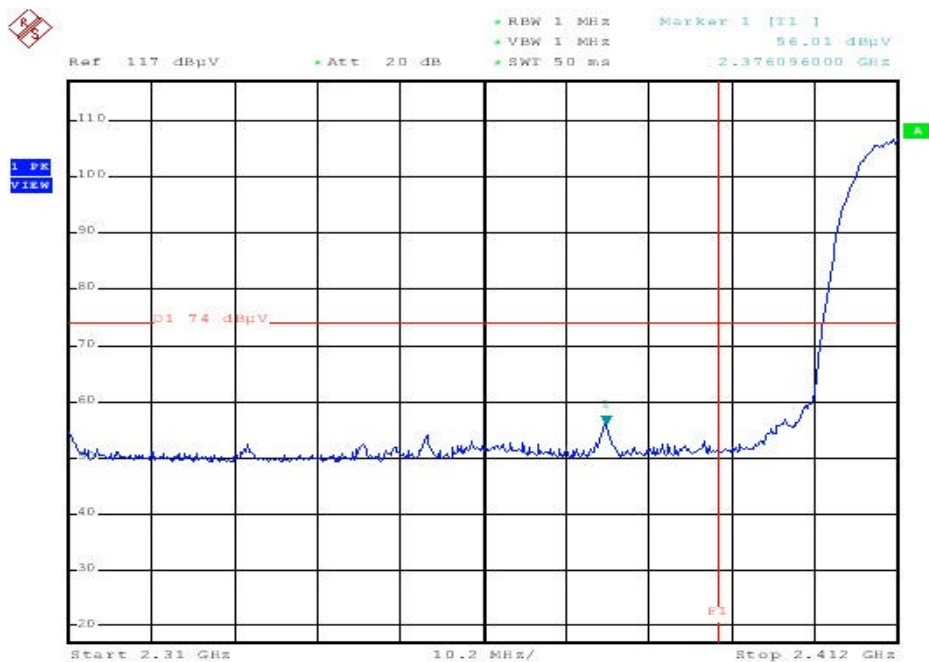


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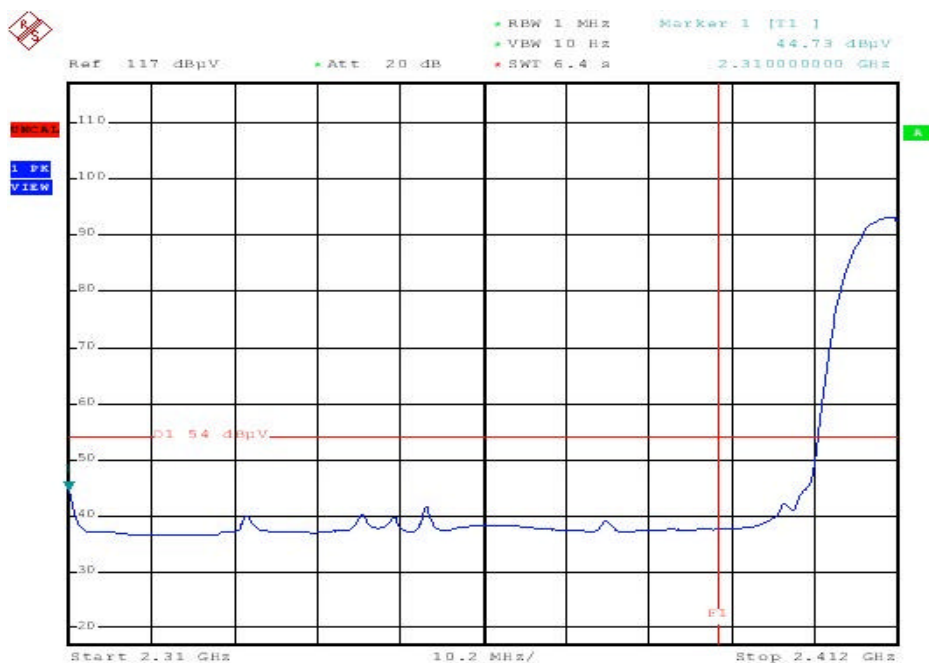
Antenna type 2:

Modulation Standard: IEEE 802.11b

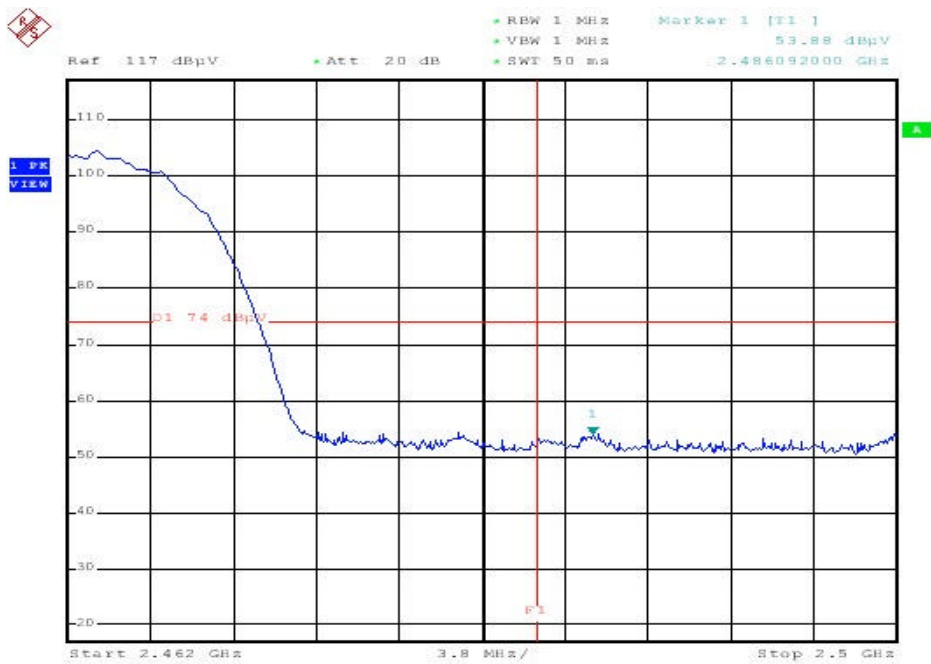
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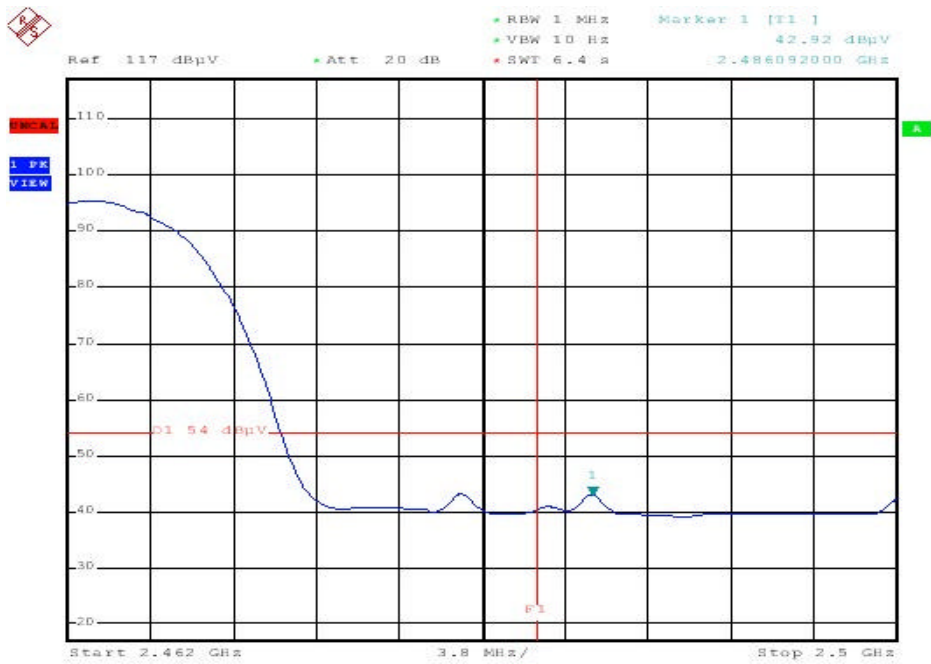
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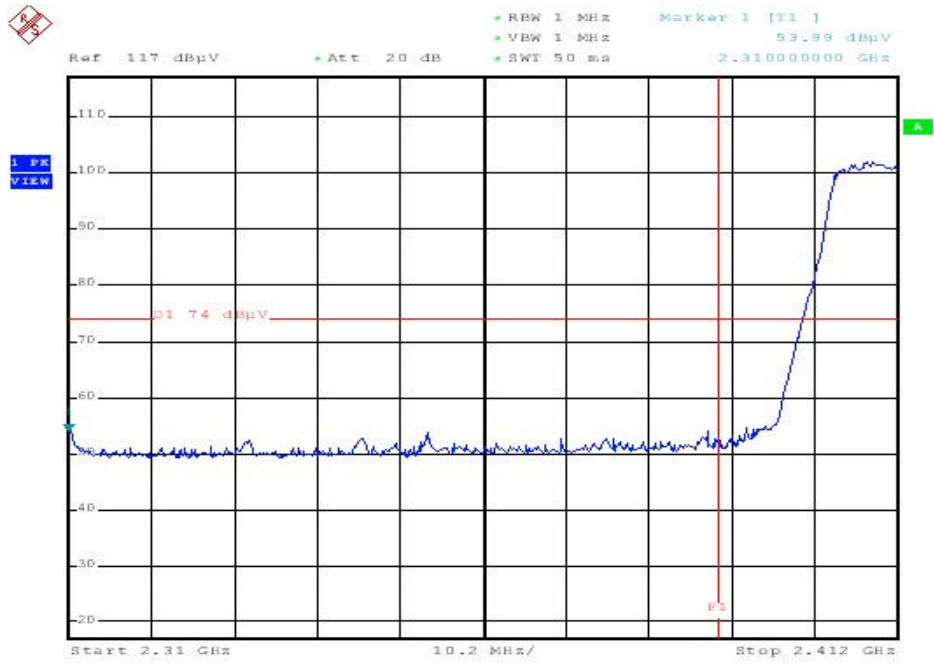


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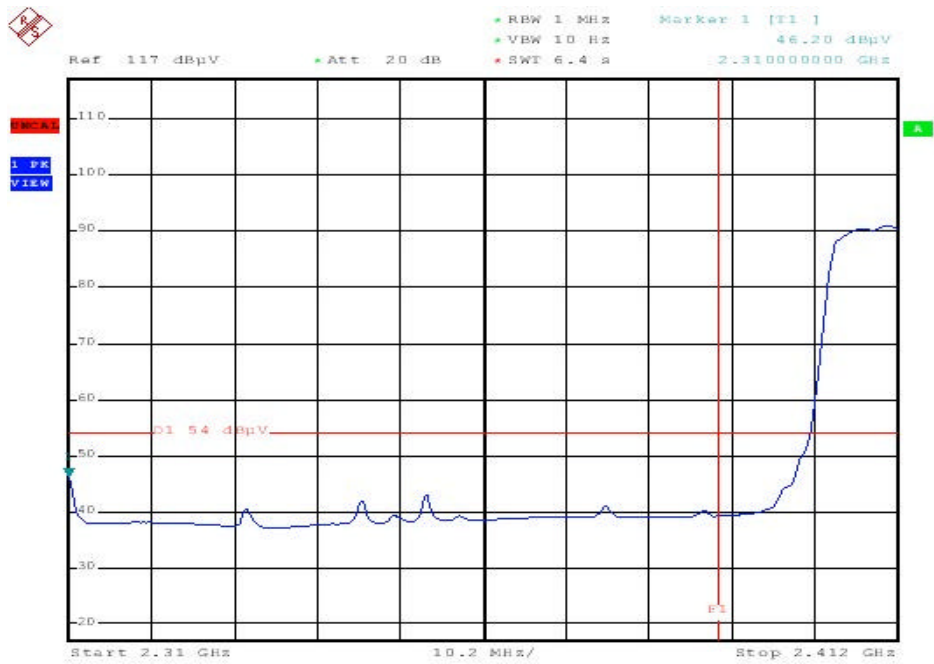


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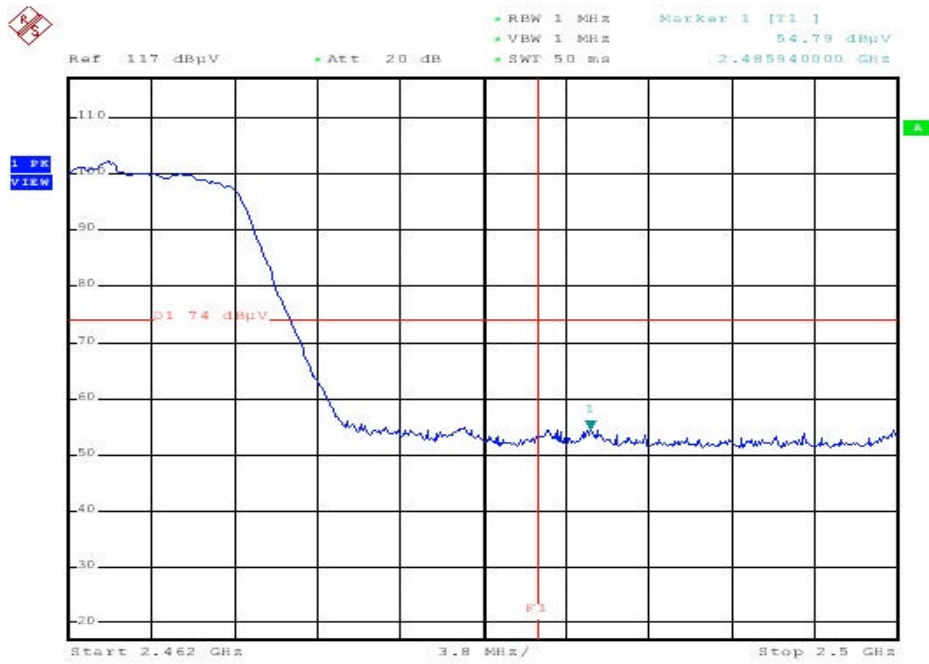
Modulation Standard: IEEE 802.11g
Pol/Phase: Vertical



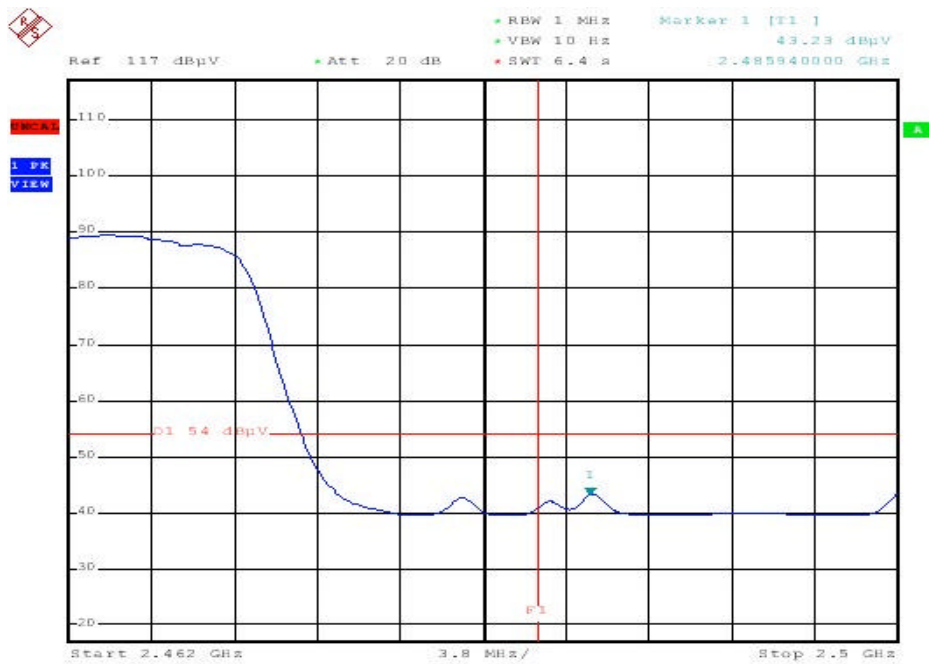
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Date: 27.SEP.2004 10:52:29



Date: 27.SEP.2004 10:55:24



Date: 27.SEP.2004 10:59:35

4.7. Power Spectral Density Measurement Data

Antenna type 1:

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 20, 2004 Temperature: 29 Humidity: 54%

a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is	<u>-14.78</u>	<u>dBm</u>
b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is	<u>-14.36</u>	<u>dBm</u>
c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is	<u>-13.55</u>	<u>dBm</u>

(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 20, 2004 Temperature: 29 Humidity: 54%

a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is	<u>-20.06</u>	<u>dBm</u>
b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is	<u>-19.70</u>	<u>dBm</u>
c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is	<u>-19.90</u>	<u>dBm</u>

Antenna type 2:

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 23, 2004 Temperature: 25 Humidity: 55%

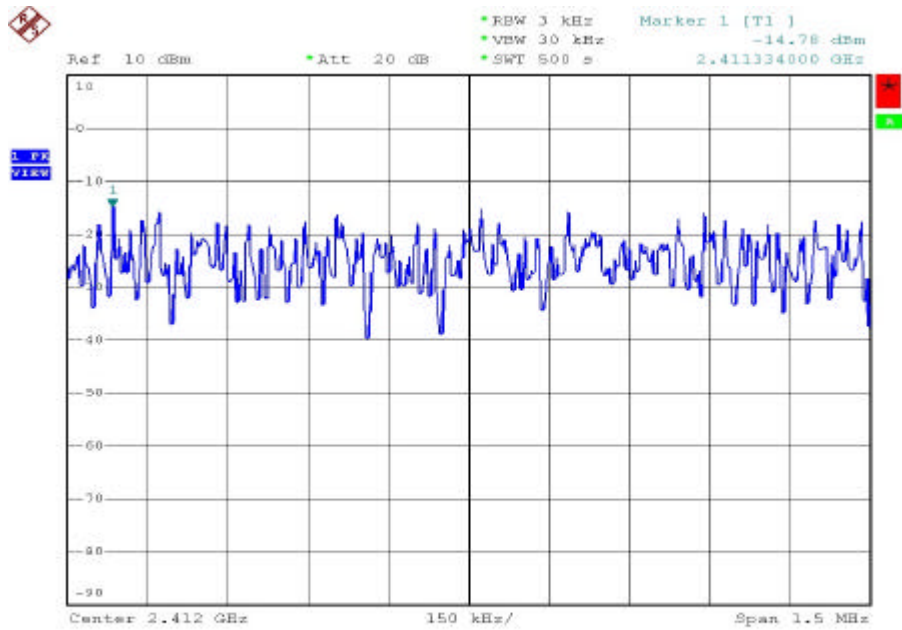
a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is	<u>-14.64</u>	<u>dBm</u>
b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is	<u>-14.34</u>	<u>dBm</u>
c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is	<u>-13.92</u>	<u>dBm</u>

(2) Modulation Standard: IEEE 802.11g

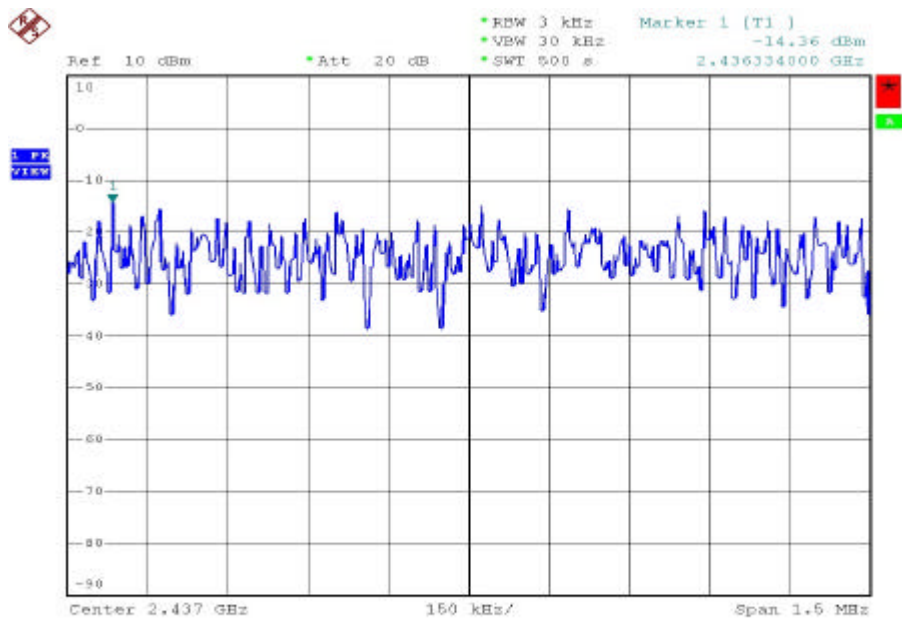
Test Date: Sep. 23, 2004 Temperature: 25 Humidity: 55%

a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is	<u>-20.57</u>	<u>dBm</u>
b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is	<u>-19.93</u>	<u>dBm</u>
c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is	<u>-20.16</u>	<u>dBm</u>

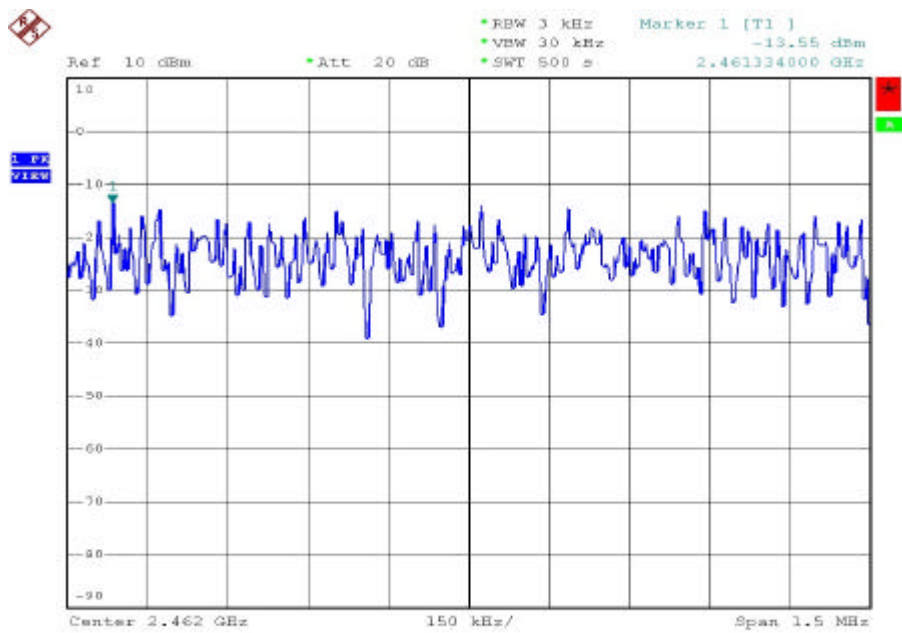
Antenna type 1:



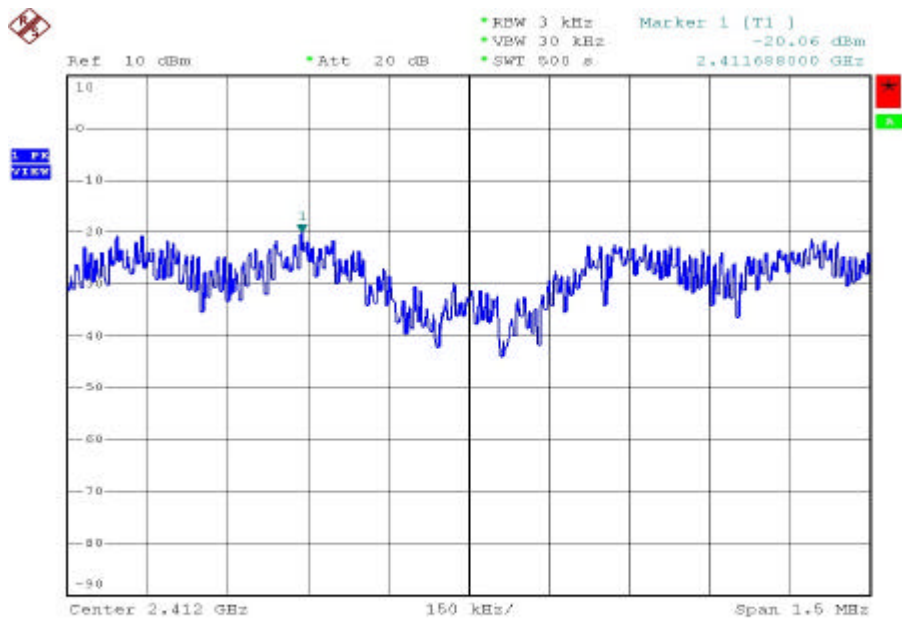
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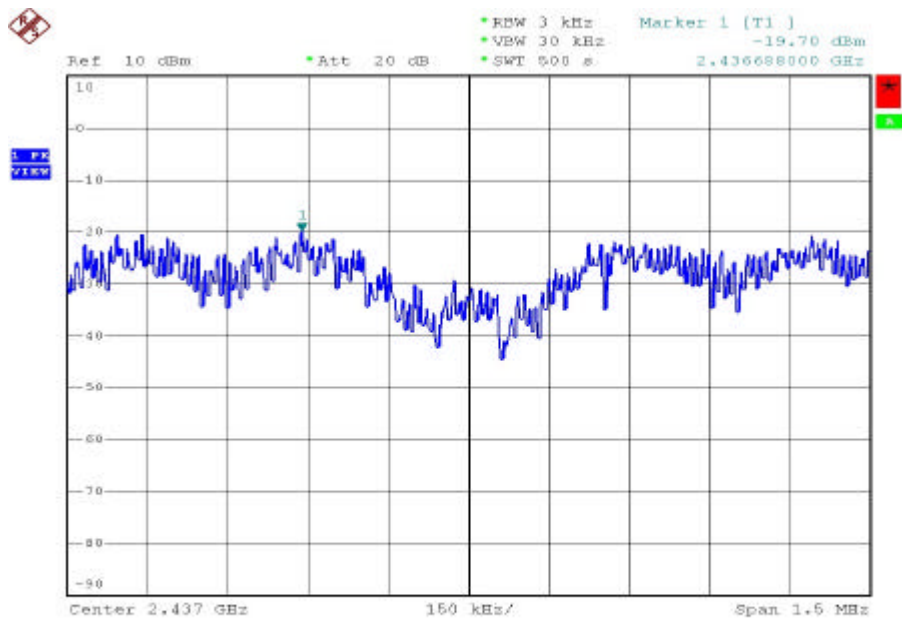
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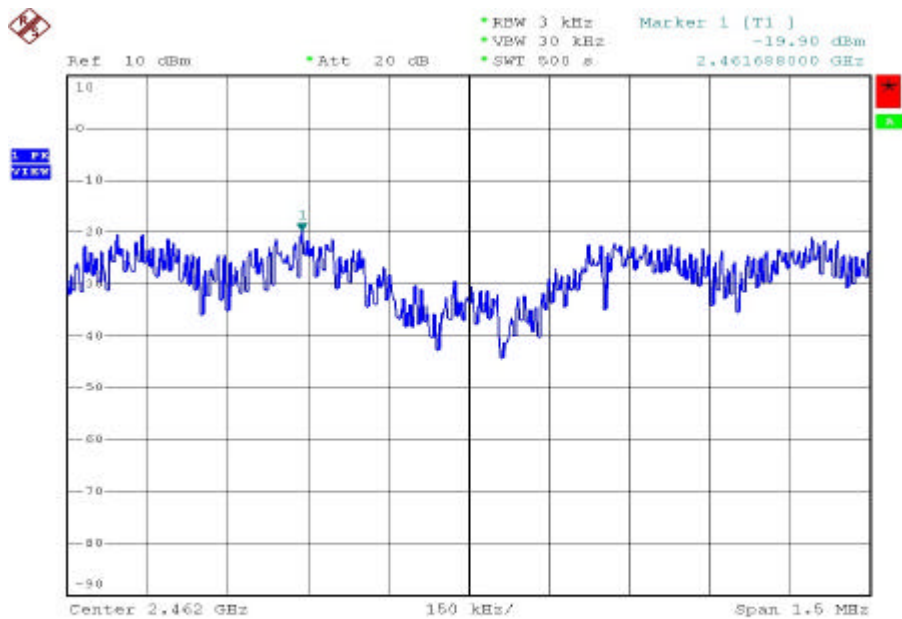
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Date: 20.SEP.2004 17:59:42

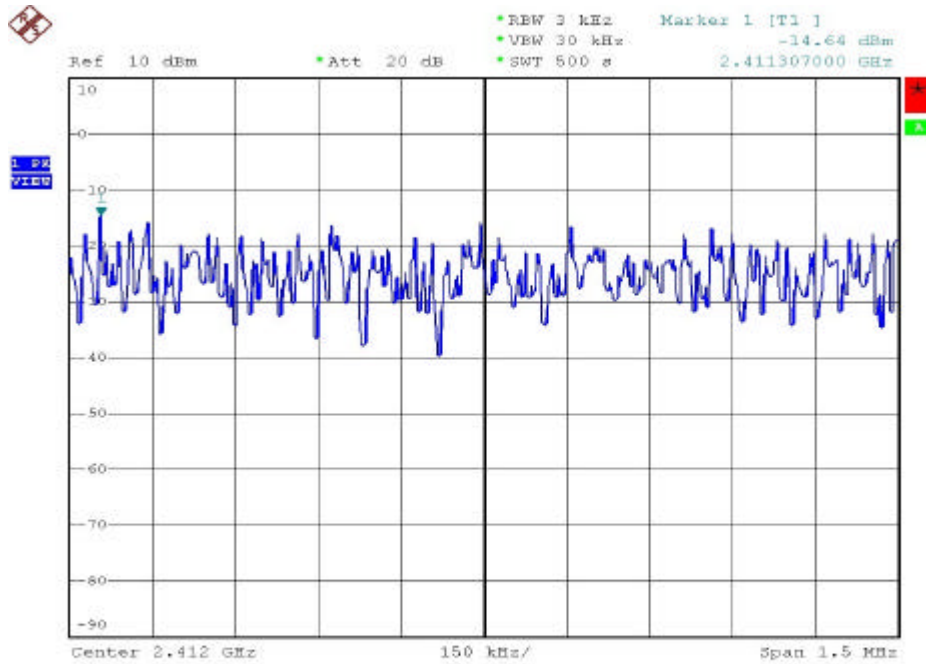


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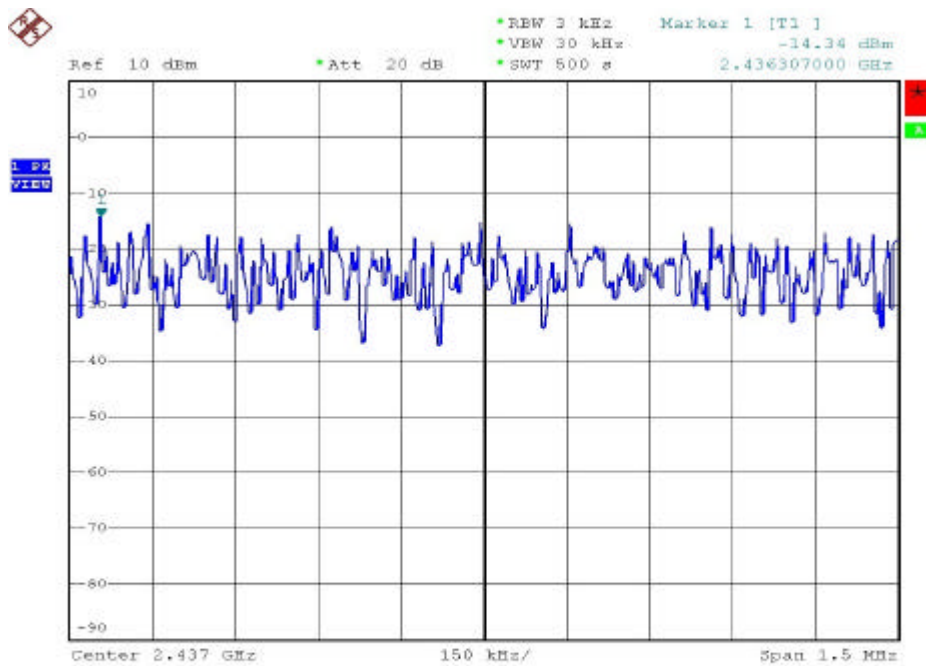


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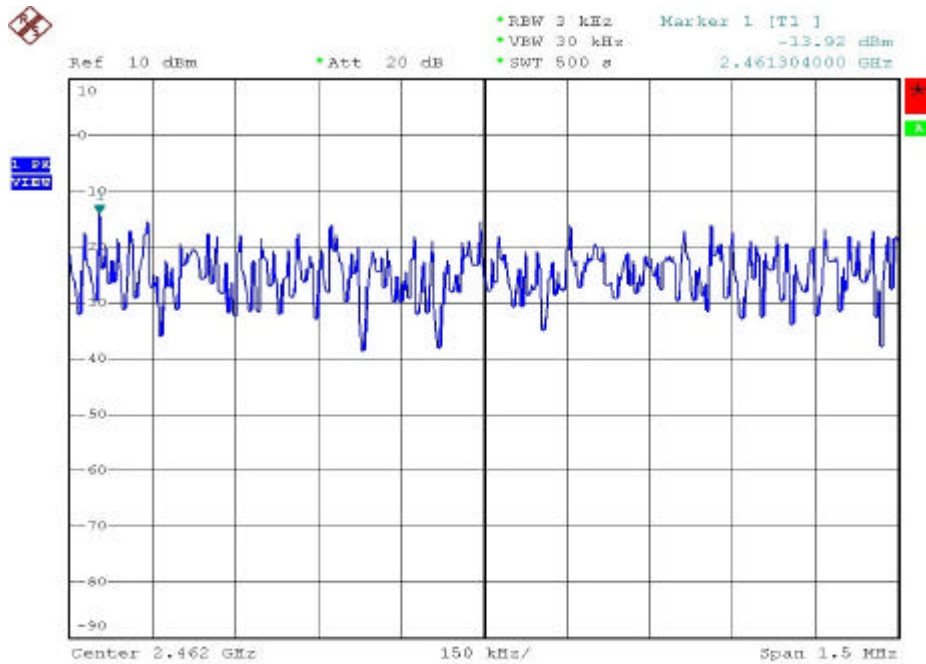
Antenna type 2:



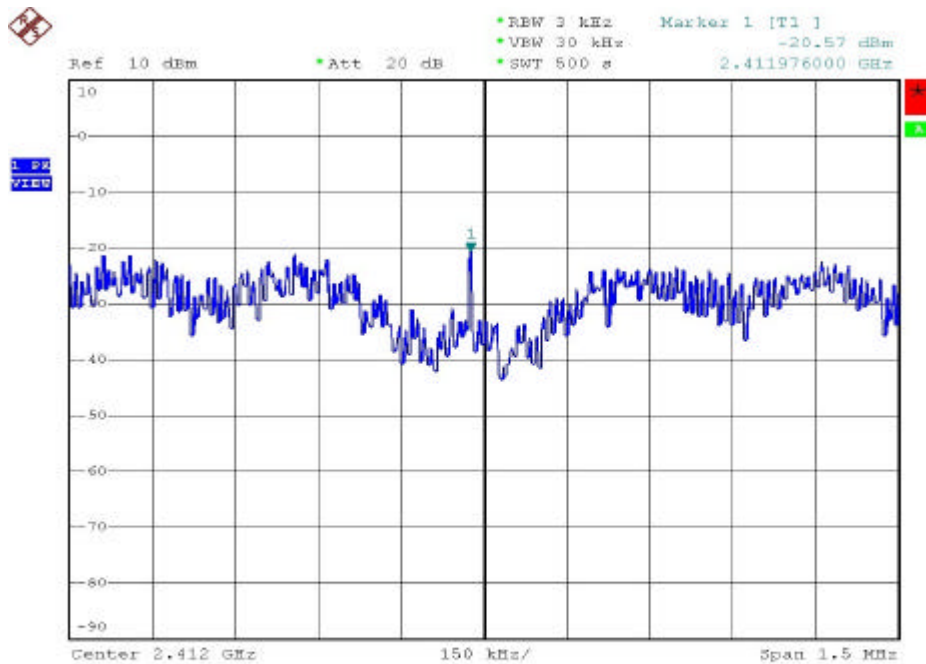
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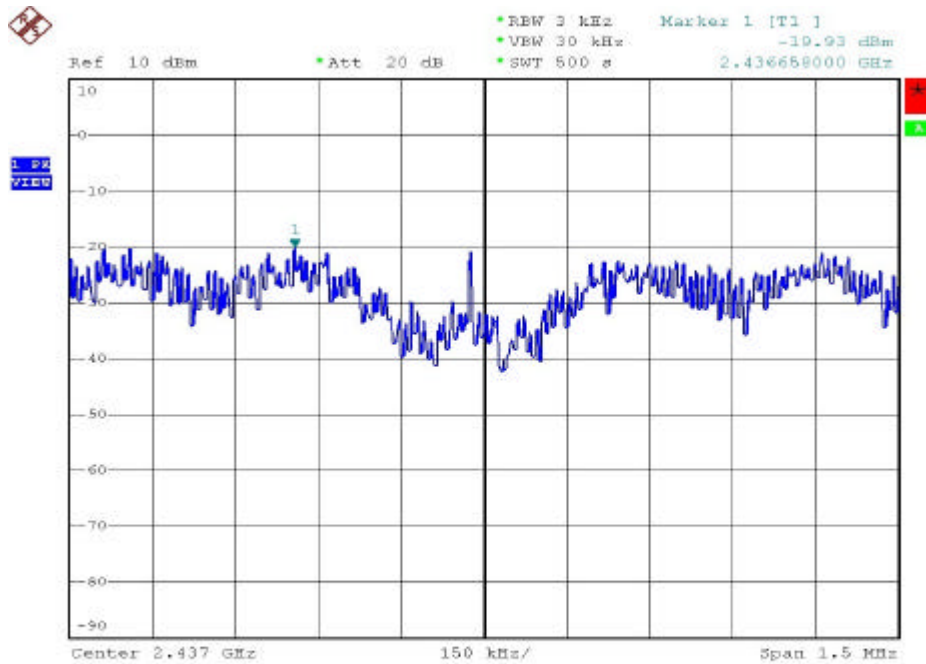
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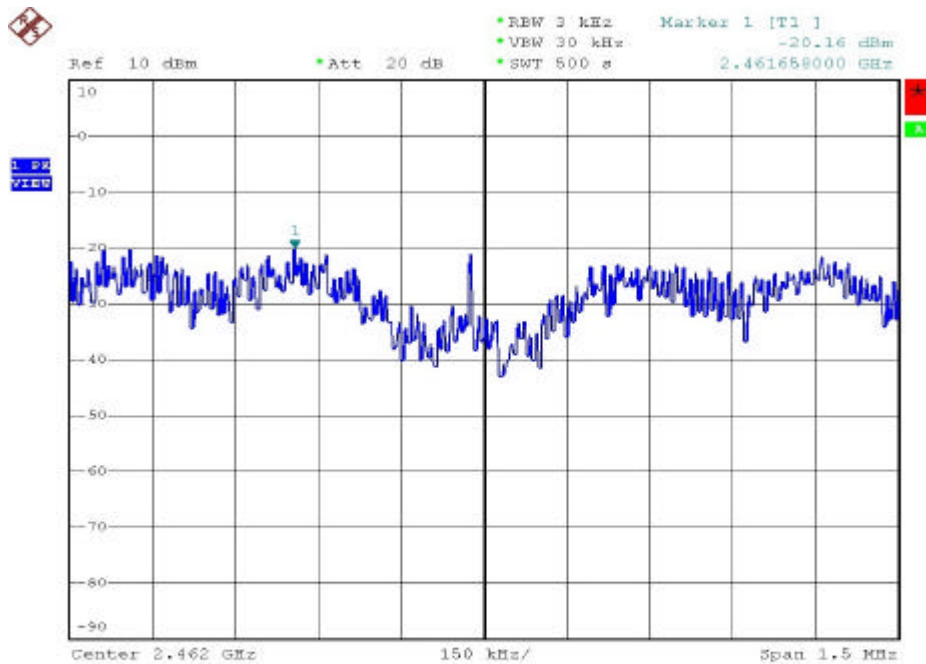
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Date: 23.SEP.2004 16:21:15



Date: 23.SEP.2004 16:50:33



Date: 23.SEP.2004 17:00:08

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	2006/02/09
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