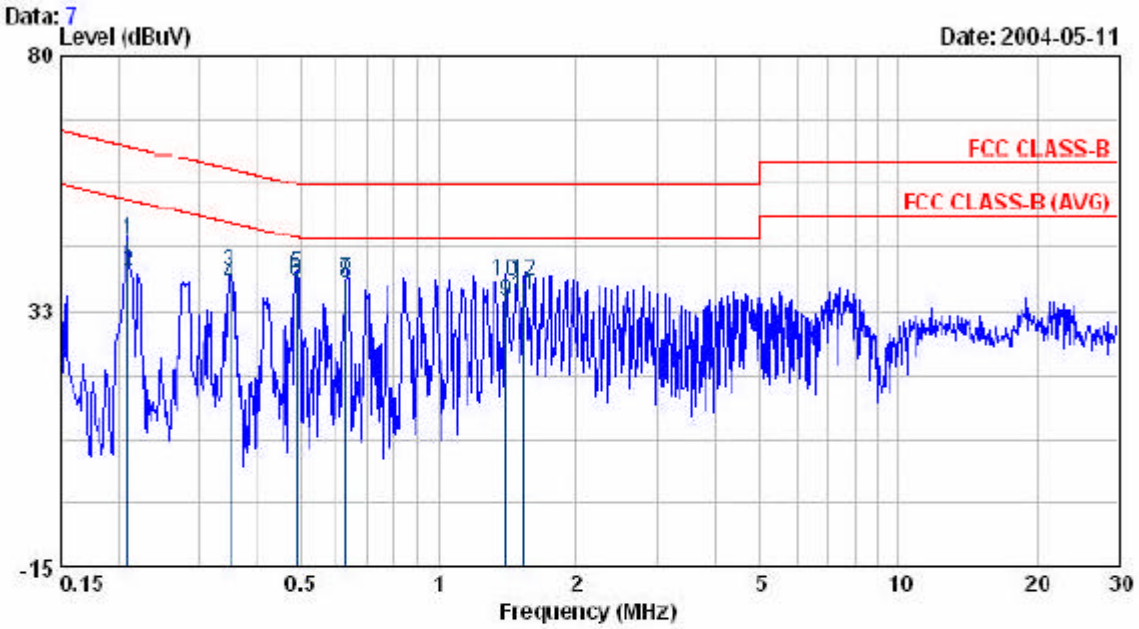
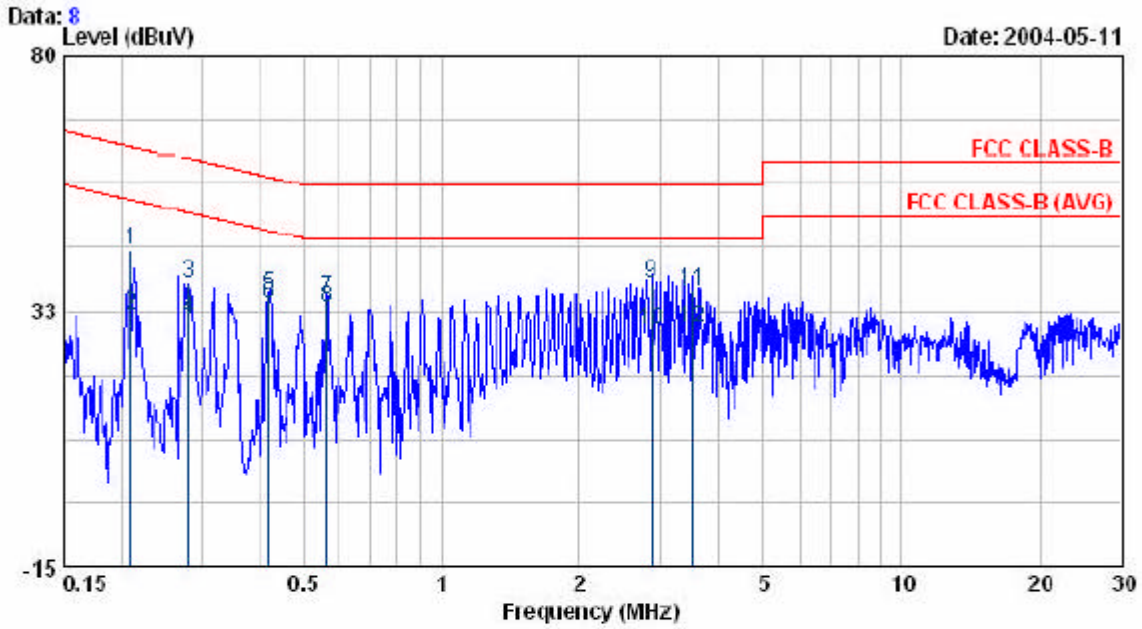
EUT	: WUG2650/WU02654		
Power	: 110V 60Hz(for notebook)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11g CH L0	Temperature	: 24 ℃
Memo	:	Humidity	: 58 %



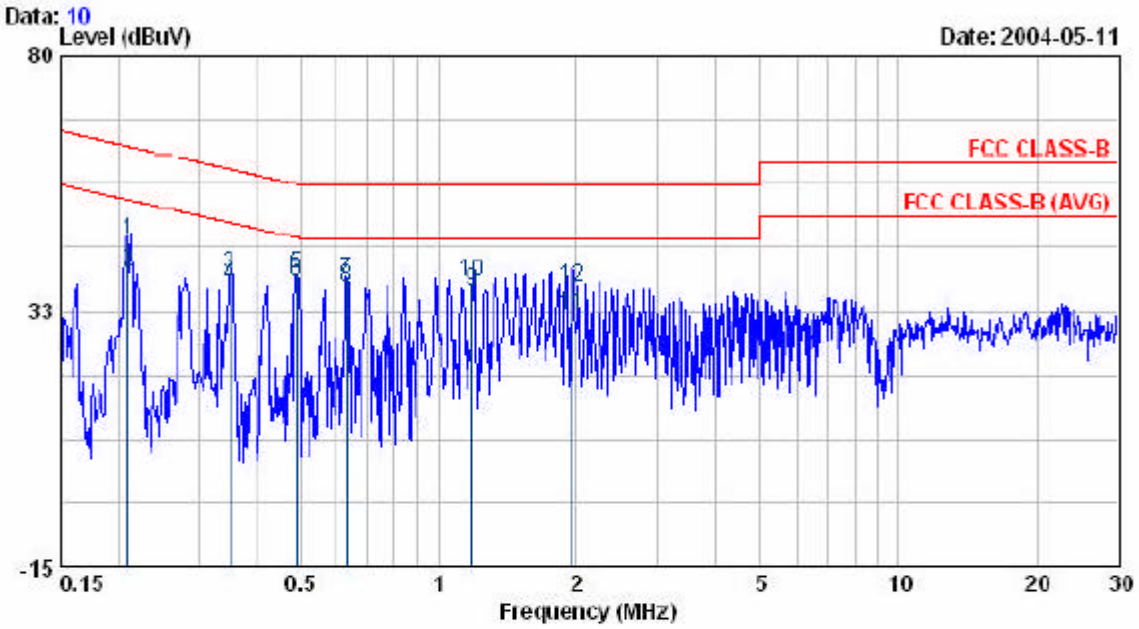
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.210	45.28	0.42	45.70	63.19	-17.49	QP
0.210	39.08	0.42	39.50	53.19	-13.69	AVERAGE
0.350	39.09	0.45	39.54	58.96	-19.42	QP
0.350	36.90	0.45	37.35	48.96	-11.61	AVERAGE
0.490	38.72	0.47	39.19	56.18	-16.99	QP
0.490	37.57	0.47	38.04	46.18	-8.14	AVERAGE
0.629	37.64	0.49	38.13	56.00	-17.87	QP
0.629	37.08	0.49	37.57	46.00	-8.43	AVERAGE
1.400	33.66	0.53	34.19	46.00	-11.81	AVERAGE
1.400	37.29	0.53	37.82	56.00	-18.18	QP
1.537	34.67	0.53	35.20	46.00	-10.80	AVERAGE
1.537	37.45	0.53	37.98	56.00	-18.02	QP

EUT	: WUG2650/WU02654		
Power	: 110V 60Hz(for notebook)	Pol/Phase	: LINE
Test Mode	: 802.11g CH L0	Temperature	: 24 ℃
Memo	:	Humidity	: 58 %



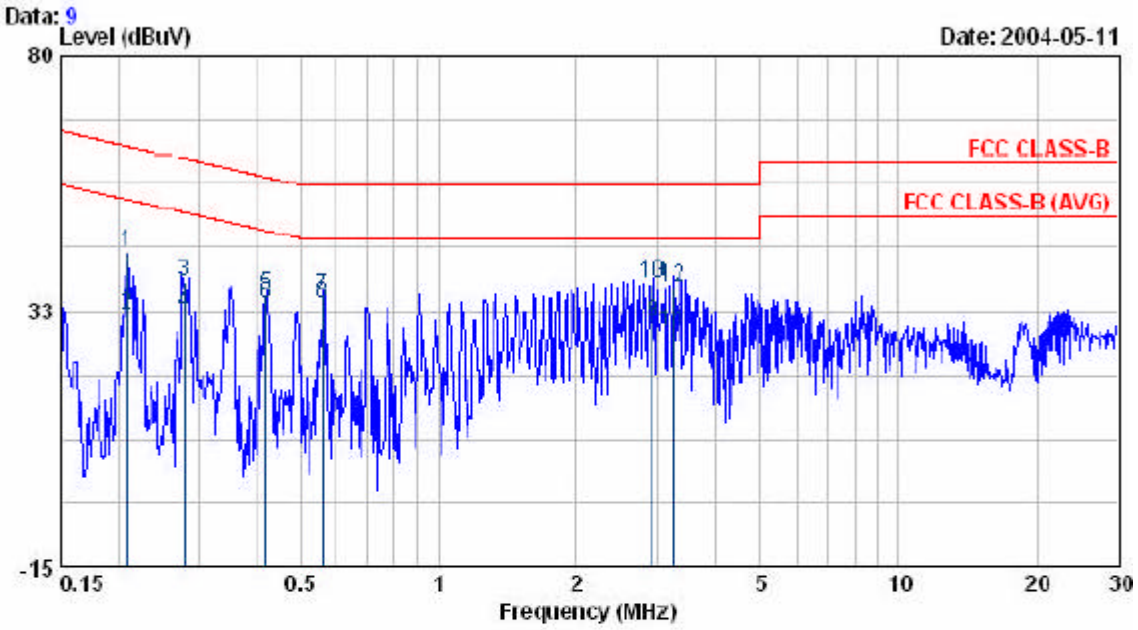
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.210	43.32	0.42	43.74	63.19	-19.45	QP
0.210	31.05	0.42	31.47	53.19	-21.72	AVERAGE
0.281	37.03	0.44	37.47	60.78	-23.32	QP
0.281	30.44	0.44	30.88	50.78	-19.91	AVERAGE
0.419	34.91	0.46	35.37	57.46	-22.09	QP
0.419	33.34	0.46	33.80	47.46	-13.66	AVERAGE
0.561	34.19	0.48	34.67	56.00	-21.33	QP
0.561	32.41	0.48	32.89	46.00	-13.11	AVERAGE
2.863	36.83	0.56	37.39	56.00	-18.61	QP
2.863	28.24	0.56	28.80	46.00	-17.20	AVERAGE
3.498	35.42	0.57	35.99	56.00	-20.01	QP
3.498	28.76	0.57	29.33	46.00	-16.67	AVERAGE

EUT	: WUG2650/WU02654		
Power	: 110V 60Hz(for notebook)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11g CH MID	Temperature	: 24 ℃
Memo	:	Humidity	: 58 %



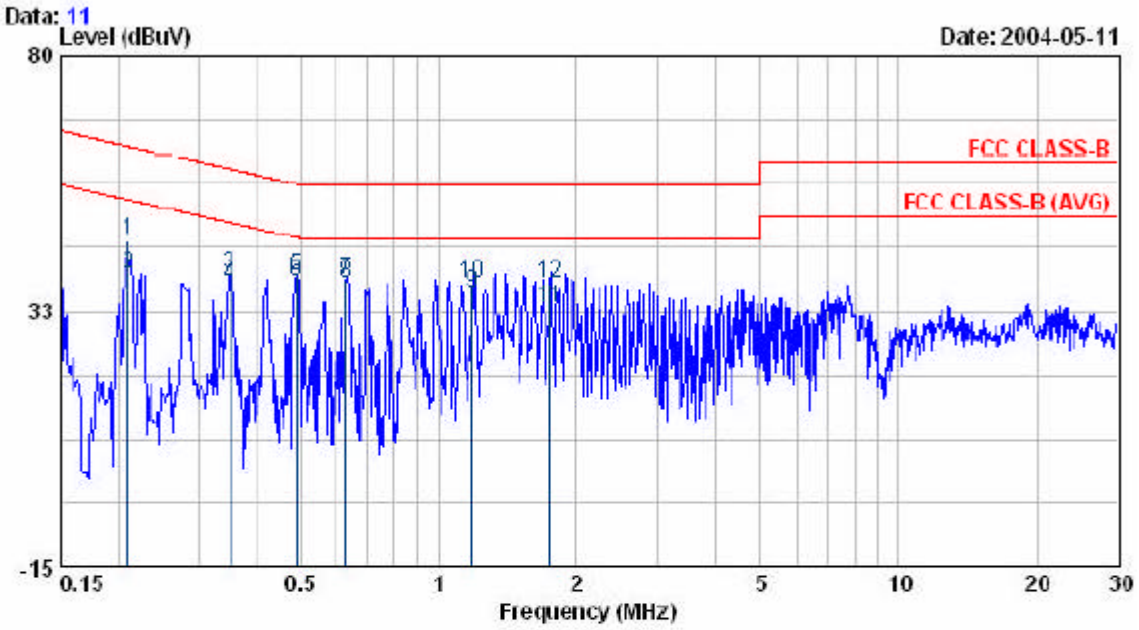
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.210	45.30	0.42	45.72	63.20	-17.48	QP
0.210	39.11	0.42	39.53	53.20	-13.67	AVERAGE
0.351	38.88	0.45	39.33	58.95	-19.62	QP
0.351	36.60	0.45	37.05	48.95	-11.90	AVERAGE
0.490	38.69	0.47	39.16	56.17	-17.01	QP
0.490	37.45	0.47	37.92	46.17	-8.25	AVERAGE
0.631	37.62	0.49	38.11	56.00	-17.89	QP
0.631	36.32	0.49	36.81	46.00	-9.19	AVERAGE
1.188	35.55	0.52	36.07	46.00	-9.93	AVERAGE
1.188	37.30	0.52	37.82	56.00	-18.18	QP
1.959	31.13	0.54	31.67	46.00	-14.33	AVERAGE
1.959	36.24	0.54	36.78	56.00	-19.22	QP

EUT	: WUG2650/WUG2654		
Power	: 110V 60Hz(for notebook)	Pol/Phase	: LINE
Test Mode	: 802.11g CH MID	Temperature	: 24 ℃
Memo	:	Humidity	: 58 %



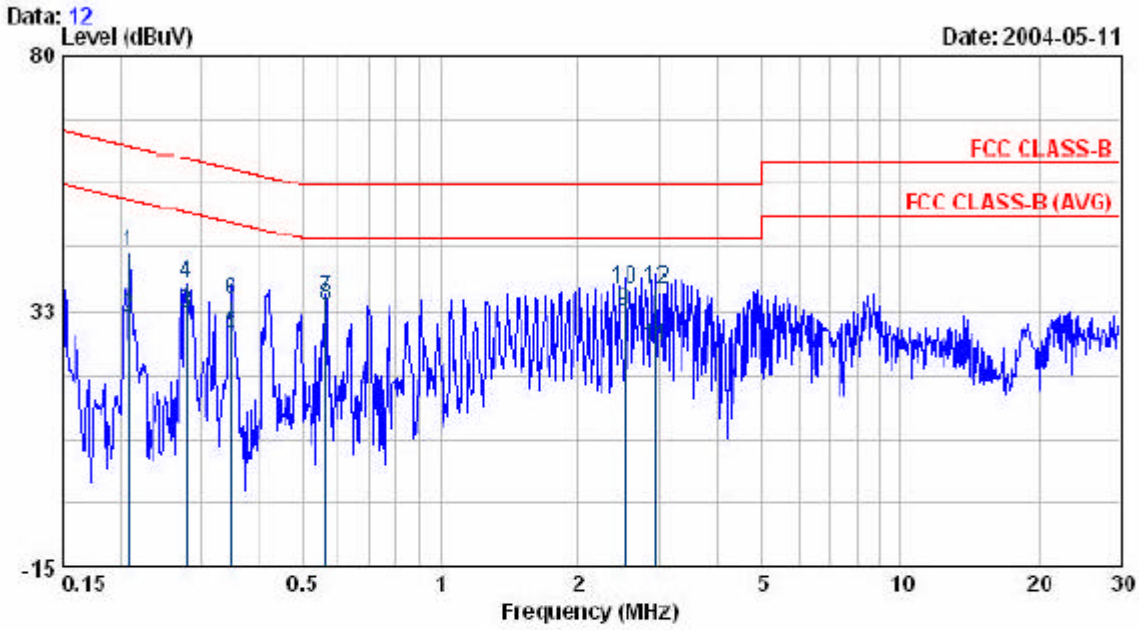
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.210	43.17	0.42	43.59	63.21	-19.62	QP
0.210	31.18	0.42	31.60	53.21	-21.61	AVERAGE
0.280	37.30	0.44	37.74	60.81	-23.07	QP
0.280	31.44	0.44	31.88	50.81	-18.93	AVERAGE
0.420	34.95	0.46	35.41	57.46	-22.05	QP
0.420	33.40	0.46	33.86	47.46	-13.60	AVERAGE
0.560	34.52	0.48	35.00	56.00	-21.00	QP
0.560	33.40	0.48	33.88	46.00	-12.12	AVERAGE
2.940	29.54	0.56	30.10	46.00	-15.90	AVERAGE
2.940	36.94	0.56	37.50	56.00	-18.50	QP
3.213	28.01	0.56	28.57	46.00	-17.43	AVERAGE
3.213	36.15	0.56	36.71	56.00	-19.29	QP

EUT	: WUG2650/WUG2654		
Power	: 110V 60Hz(for notebook)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11g CH HI	Temperature	: 24 ℃
Memo	:	Humidity	: 58 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.210	45.14	0.42	45.56	63.19	-17.63	QP
0.210	38.89	0.42	39.31	53.19	-13.88	AVERAGE
0.351	38.96	0.45	39.41	58.95	-19.54	QP
0.351	36.58	0.45	37.03	48.95	-11.92	AVERAGE
0.490	38.63	0.47	39.10	56.18	-17.08	QP
0.490	37.51	0.47	37.98	46.18	-8.20	AVERAGE
0.629	37.86	0.49	38.35	56.00	-17.65	QP
0.629	37.09	0.49	37.58	46.00	-8.42	AVERAGE
1.188	35.37	0.52	35.89	46.00	-10.11	AVERAGE
1.188	37.14	0.52	37.66	56.00	-18.34	QP
1.750	32.42	0.54	32.96	46.00	-13.04	AVERAGE
1.750	37.05	0.54	37.59	56.00	-18.41	QP

EUT	: WUG2650/WUG2654		
Power	: 110V 60Hz(for notebook)	Pol/Phase	: LINE
Test Mode	: 802.11g CH HI	Temperature	: 24 ℃
Memo	:	Humidity	: 58 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.210	43.01	0.42	43.43	63.23	-19.80	QP
0.210	31.00	0.42	31.42	53.23	-21.81	AVERAGE
0.280	31.56	0.44	32.00	50.82	-18.83	AVERAGE
0.280	37.10	0.44	37.54	60.82	-23.29	QP
0.349	27.73	0.45	28.18	48.98	-20.80	AVERAGE
0.349	34.05	0.45	34.50	58.98	-24.48	QP
0.560	34.42	0.48	34.90	56.00	-21.10	QP
0.560	32.97	0.48	33.45	46.00	-12.55	AVERAGE
2.518	31.89	0.55	32.44	46.00	-13.56	AVERAGE
2.518	36.06	0.55	36.61	56.00	-19.39	QP
2.943	25.26	0.56	25.82	46.00	-20.18	AVERAGE
2.943	35.92	0.56	36.48	56.00	-19.52	QP

Test by:

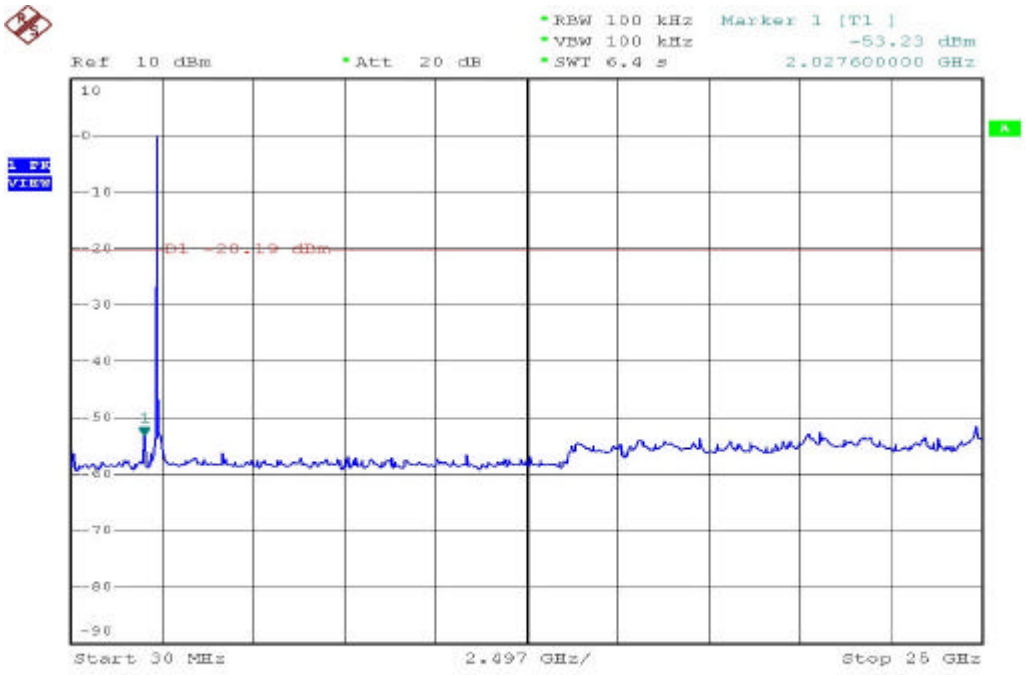
4.2.1. Photographs of Conducted Emission Test

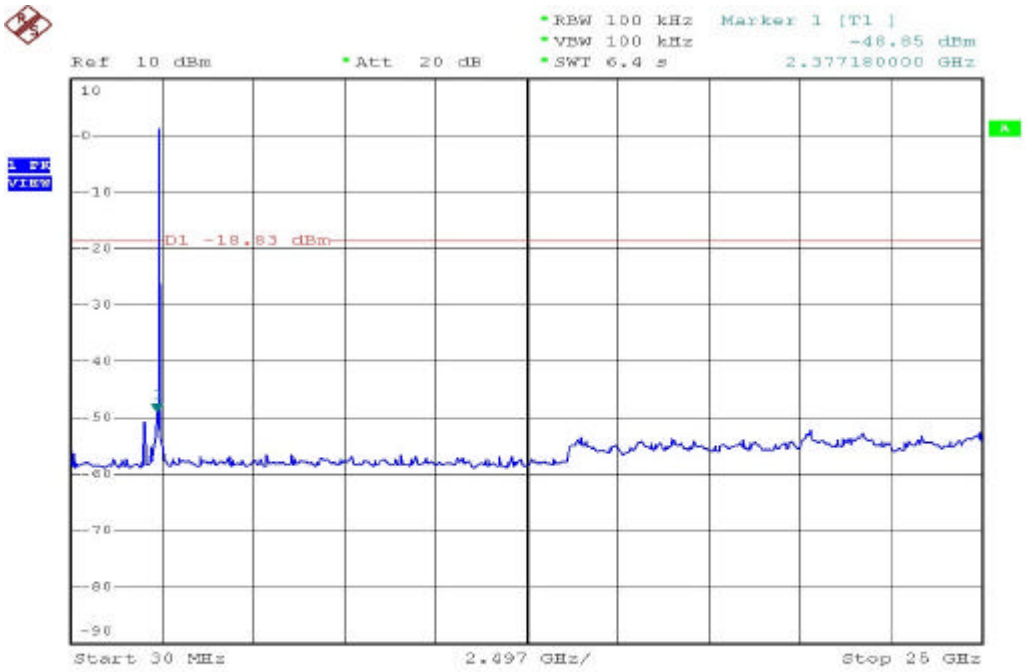
FRONT VIEW

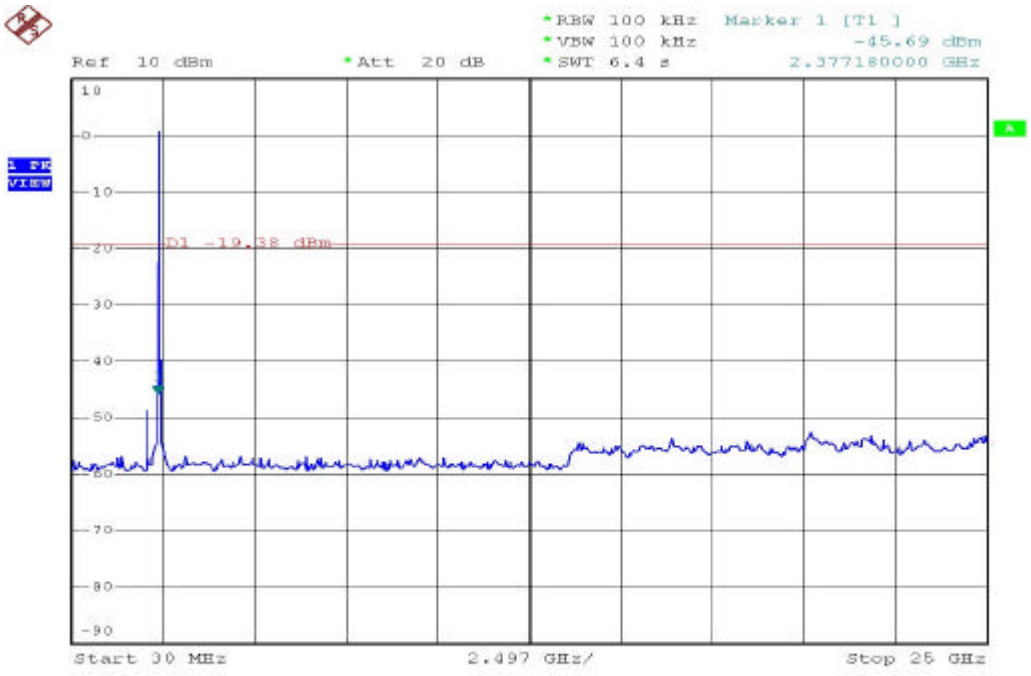
REAR VIEW

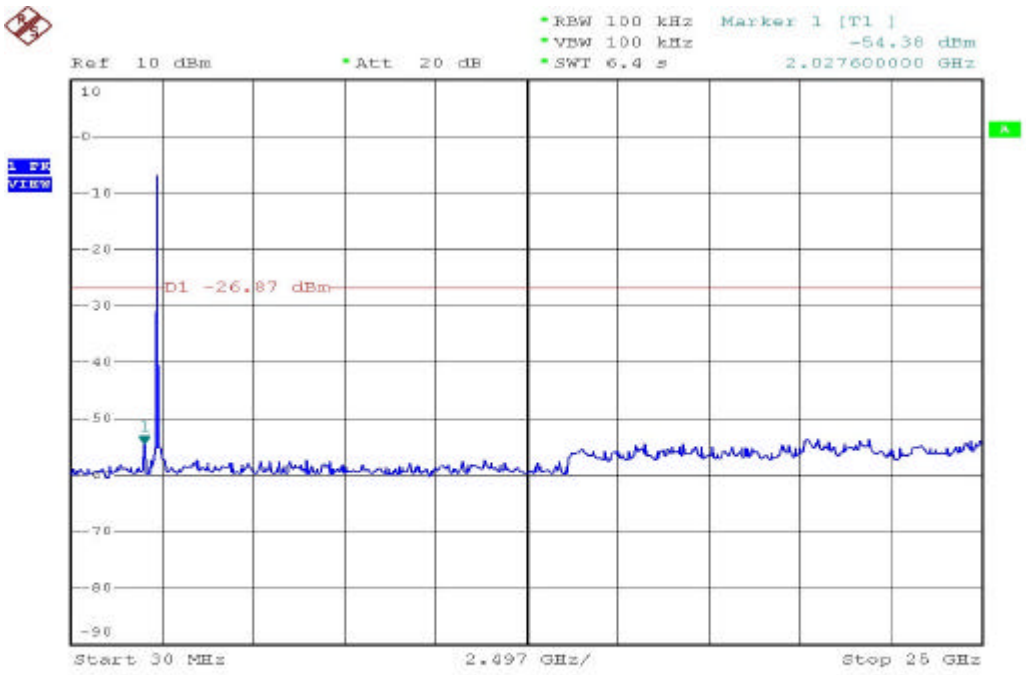
4.3. RF Portion

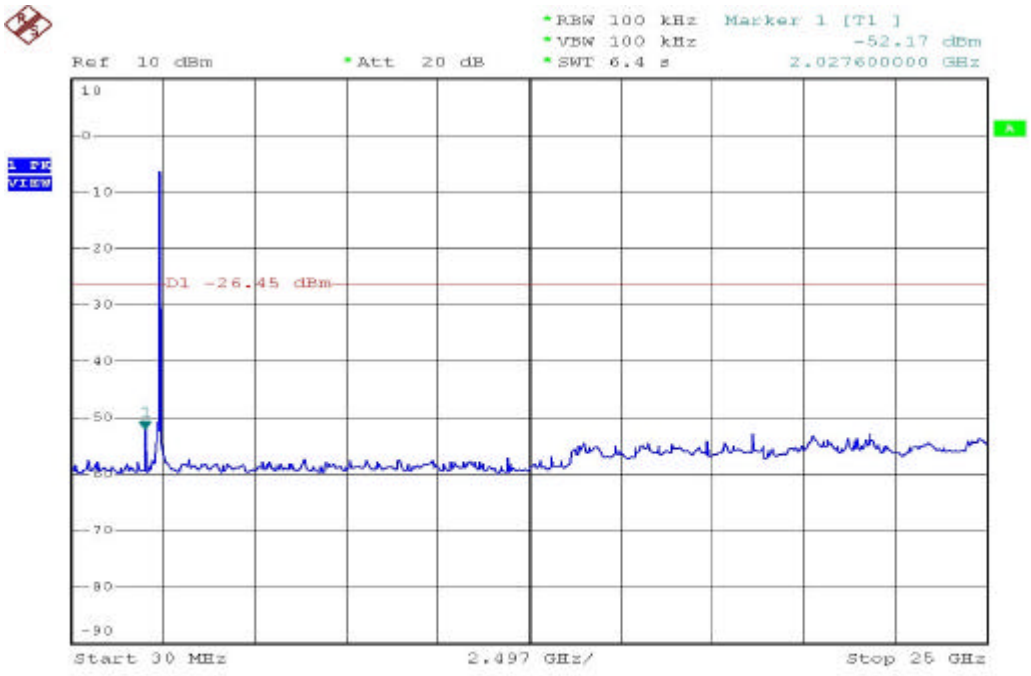
4.3.1. Test Result of Conducted Emission

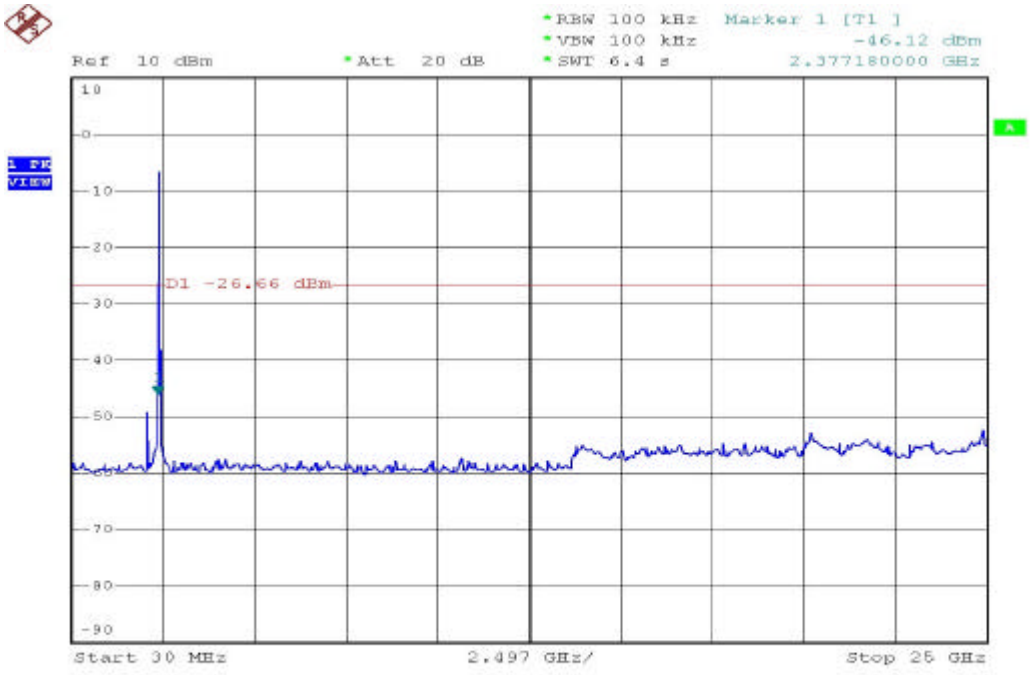





RBW 100 kHz
VBW 100 kHz
SWT 6.4 s
Marker 1 [T1]
-45.69 dBm
2.377180000 GHz
Ref 10 dBm
Att 20 dB
1 PK VIEW
D1 -19.38 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

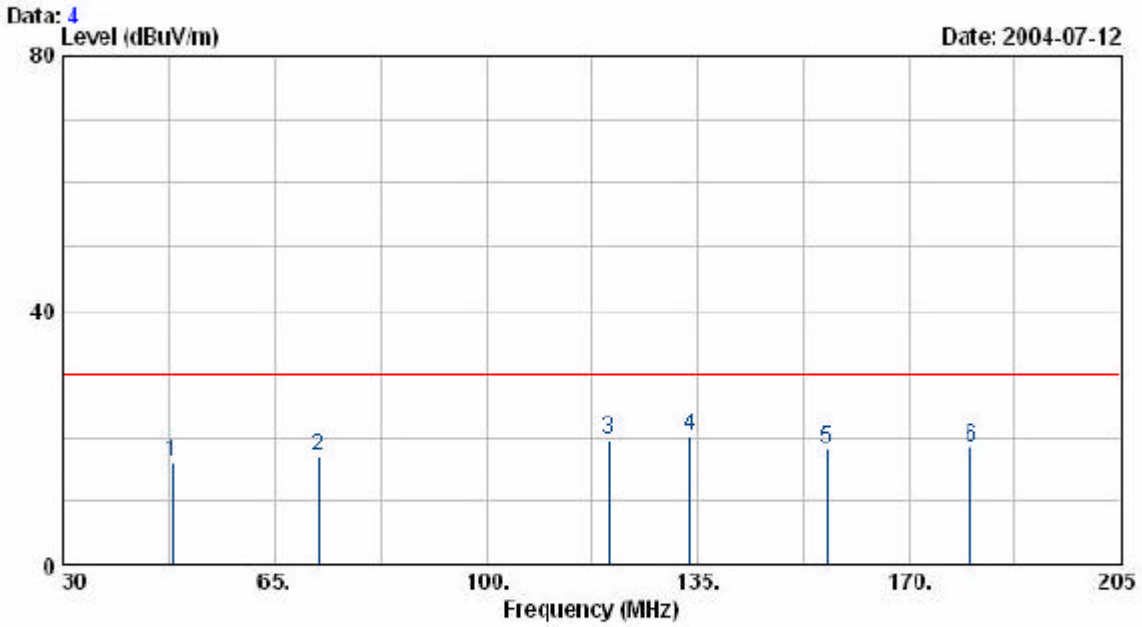

RBW 100 kHz
VBW 100 kHz
SWT 6.4 s
Marker 1 [T1]
-54.38 dBm
2.027600000 GHz
Ref 10 dBm
Att 20 dB
1 PK VIEW
D1 -26.87 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 100 kHz
SWT 6.4 s
Marker 1 [T1]
-52.17 dBm
2.027600000 GHz
Ref 10 dBm
Att 20 dB
1 PK VIEW
D1 -26.45 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 100 kHz
SWT 6.4 s
Marker 1 [T1]
-46.12 dBm
2.377180000 GHz
Ref 10 dBm
Att 20 dB
1 PK VIEW
D1 -26.66 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

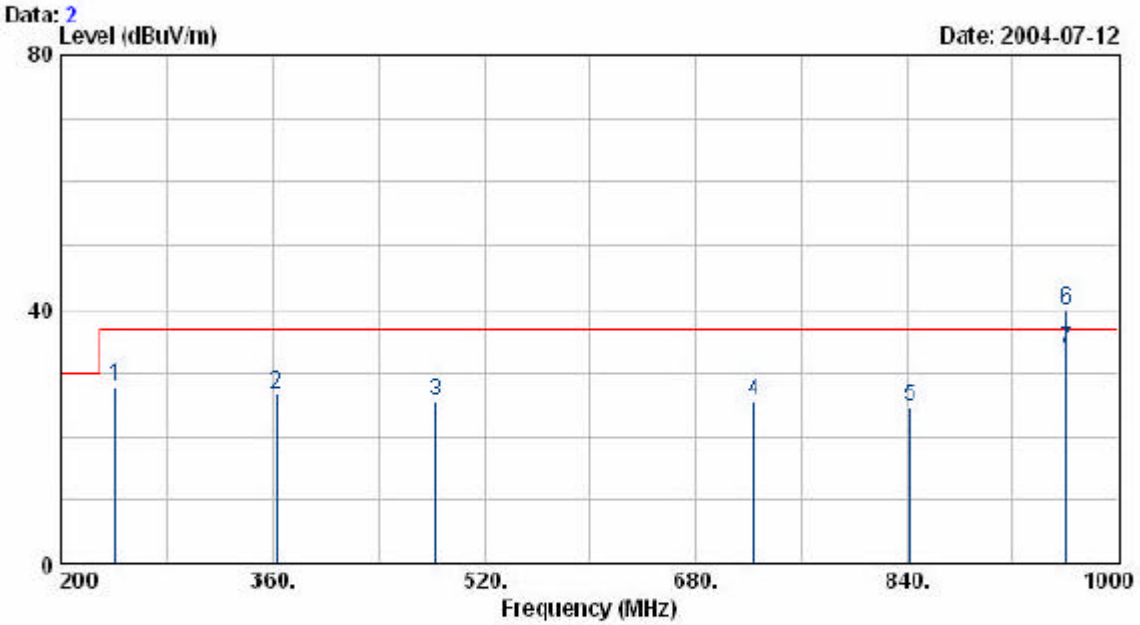
4.3.2. Test Result of Radiated Emission

EUT	: VVG2654		
Power	: DC 5V FORM NB	Pol/Phase	: HORIZONTAL
Test Mode	: LINK	Temperature	: 30 ℃
Memo	:	Humidity	: 62 %



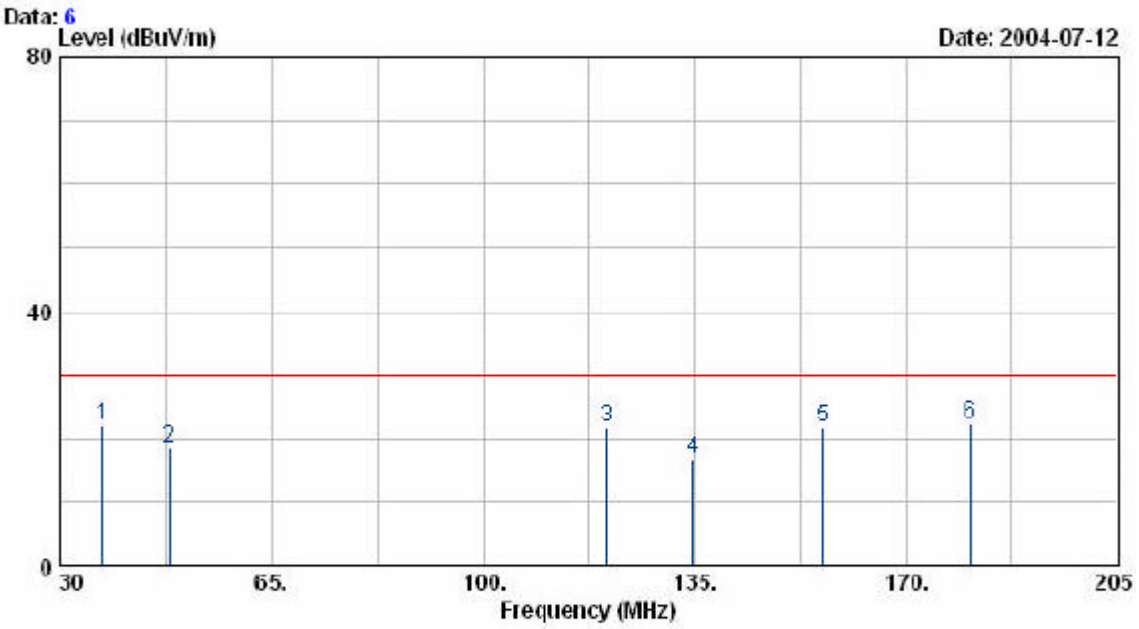
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark	Ant Pos	Tab Pos
MHz	dBuV	dBuV/m	dBuV/m	dB	dB			
48.20	34.48	-18.44	16.04	30.00	-13.96	Peak	300	360
72.18	38.25	-21.13	17.12	30.00	-12.88	Peak	300	360
120.30	35.28	-15.51	19.77	30.00	-10.23	Peak	300	360
133.78	35.20	-14.93	20.27	30.00	-9.73	Peak	300	360
156.53	34.07	-15.80	18.28	30.00	-11.72	Peak	300	360
180.33	35.95	-17.59	18.36	30.00	-11.64	Peak	300	360

EUT	: VVG2654		
Power	: DC 5V FORM NB	Pol/Phase	: HORIZONTAL
Test Mode	: LINK	Temperature	: 30 ℃
Memo	:	Humidity	: 62 %



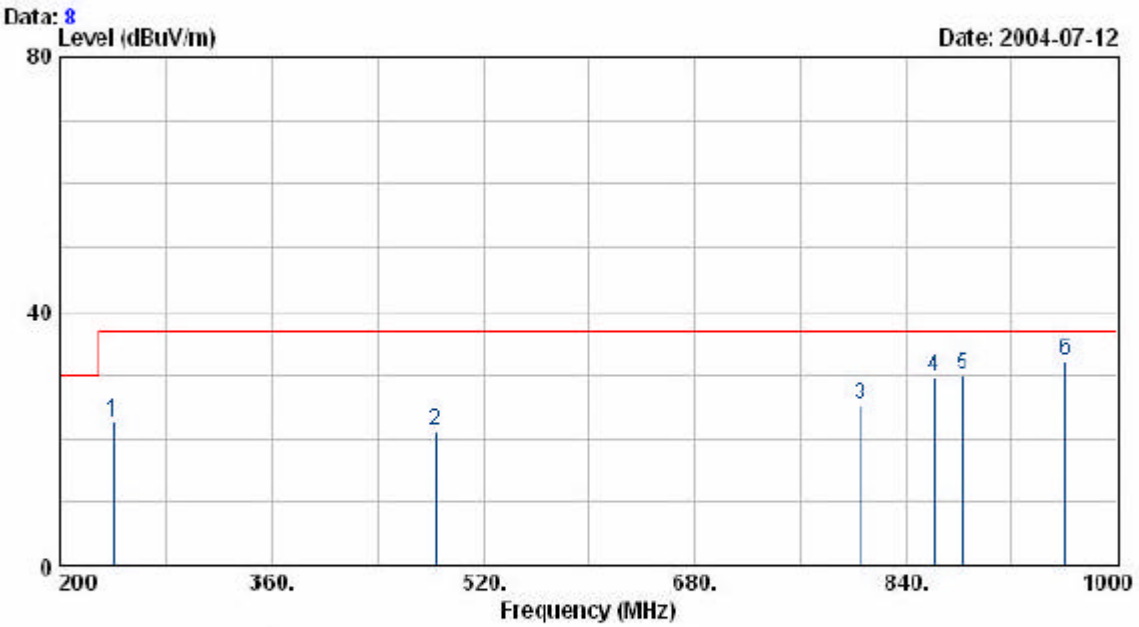
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark	Ant Pos	Tab Pos
MHz	dBuV	dBuV/m	dBuV/m	dB	dB			
241.60	41.76	-13.92	27.84	37.00	-9.16	Peak	400	360
361.60	36.75	-10.11	26.64	37.00	-10.36	Peak	400	360
482.40	32.81	-7.25	25.57	37.00	-11.43	Peak	400	360
724.00	27.42	-2.04	25.38	37.00	-11.62	Peak	400	360
842.40	24.09	0.49	24.58	37.00	-12.42	Peak	400	360
960.80	36.67	3.07	39.75	37.00	2.75	Peak	400	360
960.80	30.62	3.07	33.70	37.00	-3.30	QP	300	355

EUT	: VVG2654		
Power	: DC 5V FORM NB	Pol/Phase	: VERTICAL
Test Mode	: LINK	Temperature	: 30 ℃
Memo	:	Humidity	: 62 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark	Ant Pos	Tab Pos
MHz	dBuV	dBuV/m	dBuV/m	dB	dB			
37.18	34.13	-12.26	21.86	30.00	-8.14	Peak	100	360
48.20	36.96	-18.44	18.52	30.00	-11.48	Peak	100	360
120.48	37.24	-15.50	21.74	30.00	-8.26	Peak	100	360
134.65	31.71	-14.92	16.78	30.00	-13.22	Peak	100	360
156.35	37.58	-15.78	21.80	30.00	-8.20	Peak	100	360
180.85	39.90	-17.59	22.32	30.00	-7.68	Peak	100	360

EUT	: WVG2654		
Power	: DC 5V FORM NB	Pol/Phase	: VERTICAL
Test Mode	: LINK	Temperature	: 30 ℃
Memo	:	Humidity	: 62 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark	Ant Pos	Tab Pos
MHz	dBuV	dBuV/m	dBuV/m	dB	dB			
240.80	36.70	-14.02	22.68	37.00	-14.32	Peak	200	360
483.20	28.39	-7.22	21.16	37.00	-15.84	Peak	200	360
805.60	25.71	-0.44	25.27	37.00	-11.73	Peak	200	360
861.60	29.08	0.56	29.63	37.00	-7.37	Peak	200	360
883.20	29.35	0.40	29.75	37.00	-7.25	Peak	200	360
960.80	29.24	3.07	32.31	37.00	-4.69	Peak	200	360

Test by: Tony

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz

Test Date: Jul. 02, 2004 Temperature: 24 ℃ Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
957.30	H	41.35	4.05	45.40	46	-0.60	Q.P	270	1.5
960.80	H	48.23	3.98	52.21	54	-1.79	Q.P	270	1.5
995.80	H	42.19	4.81	47	54	-7.00	Peak	270	1.5
666.80	V	42.05	-2.11	39.94	46	-6.06	Peak	270	1.5
834.80	V	37.79	2.51	40.30	46	-5.70	Peak	270	1.5
901.30	V	40.58	2.58	43.16	46	-2.84	Q.P	270	1.5

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz

Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured.

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz

Test Date: Jul. 02, 2004 Temperature: 24 ℃ Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
957.30	H	40.20	4.05	44.25	46	-1.75	Q.P	270	1.5
960.80	H	46.98	3.98	50.96	54	-3.04	Q.P.	270	1.5
901.30	V	39.26	2.58	41.84	46	-4.16	Peak	270	1.5

Notes:

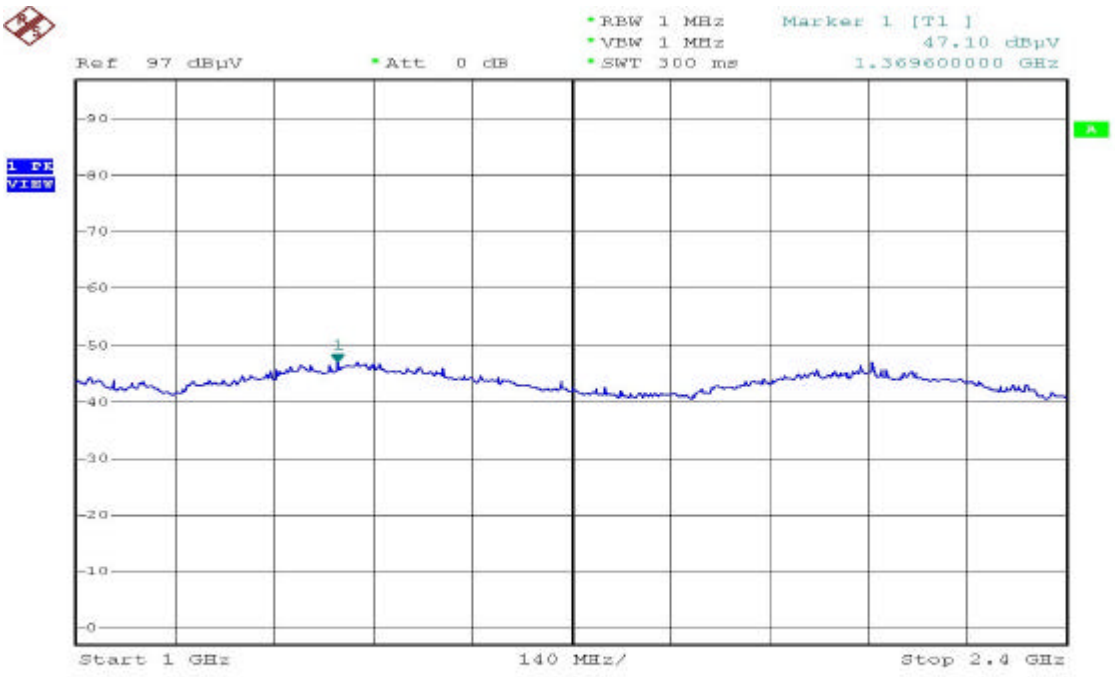
1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

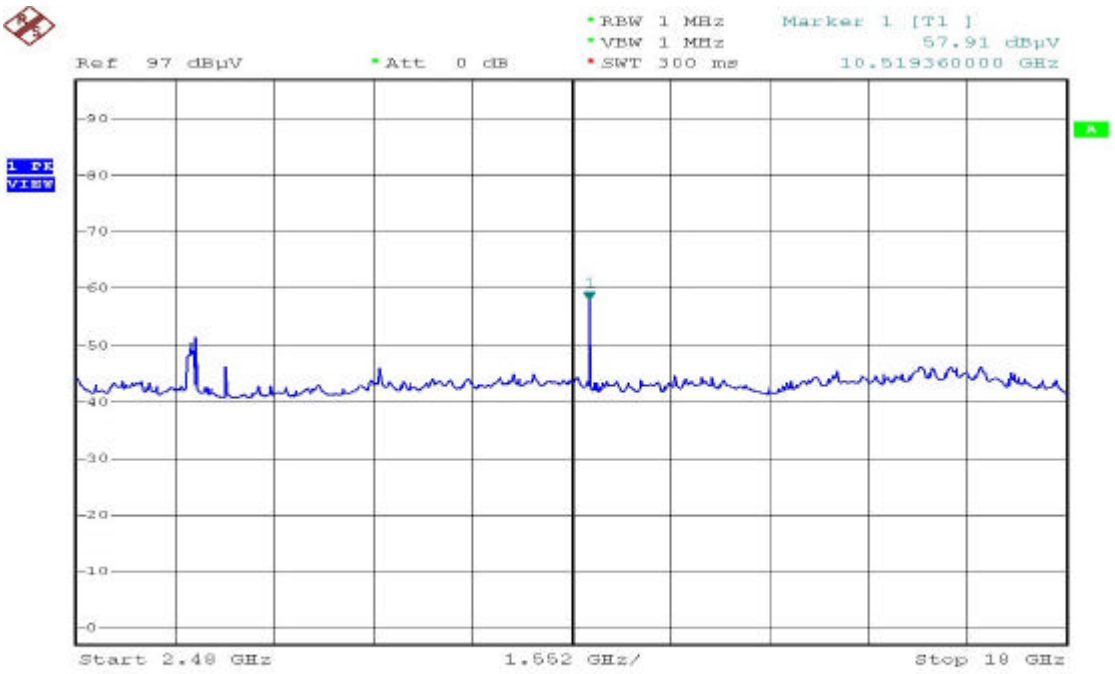
b) Emission frequencies above 1 GHz

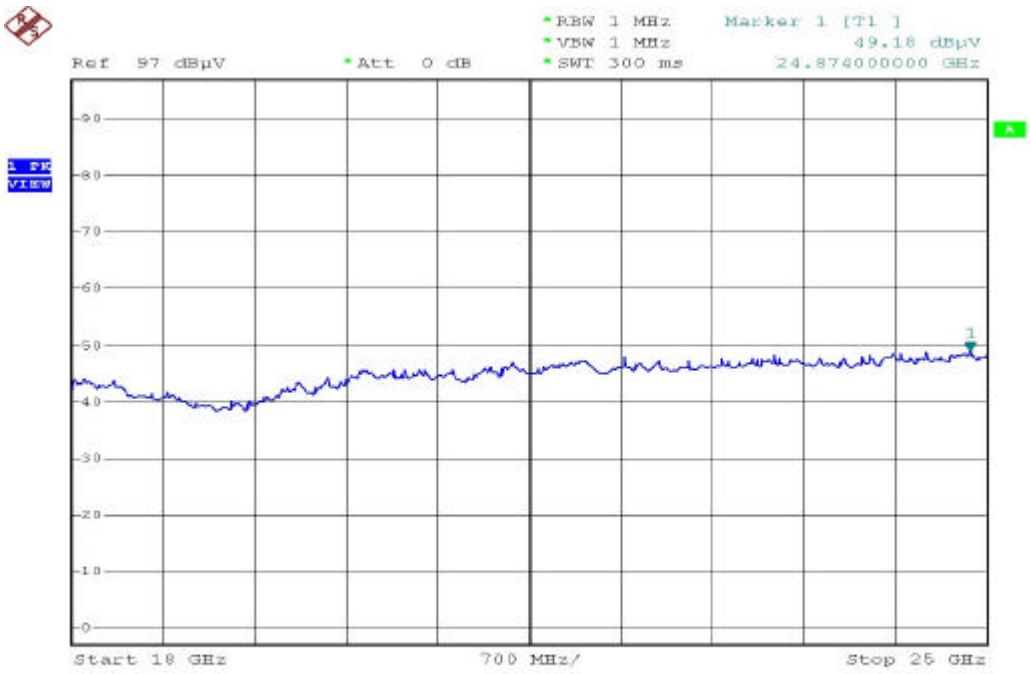
Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured.

Modulation Standard: IEEE 802.11b

Pol/Phase: Horizontal

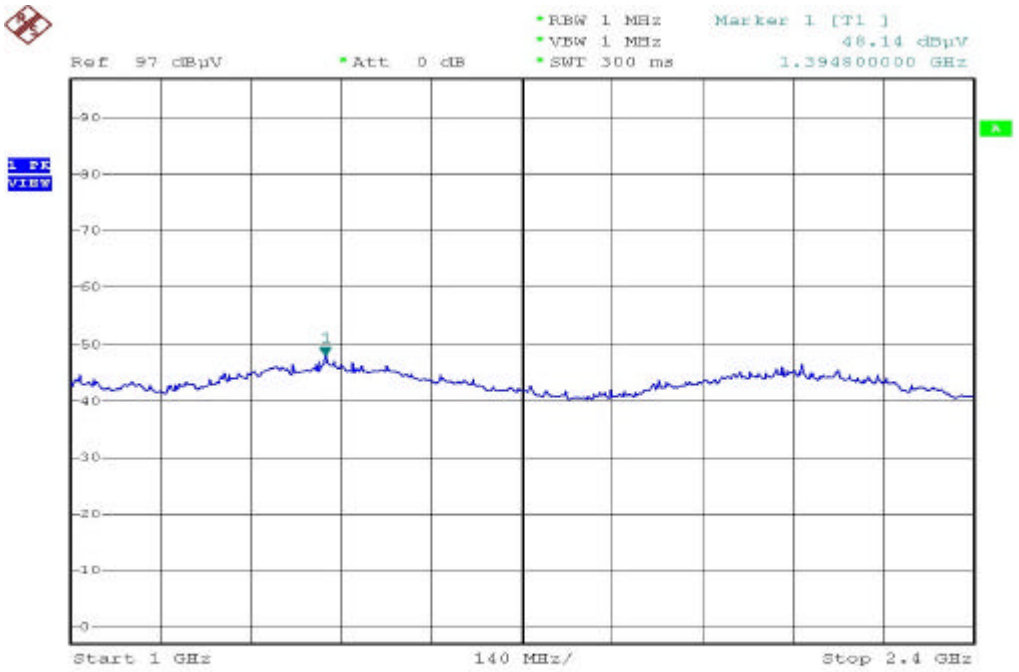


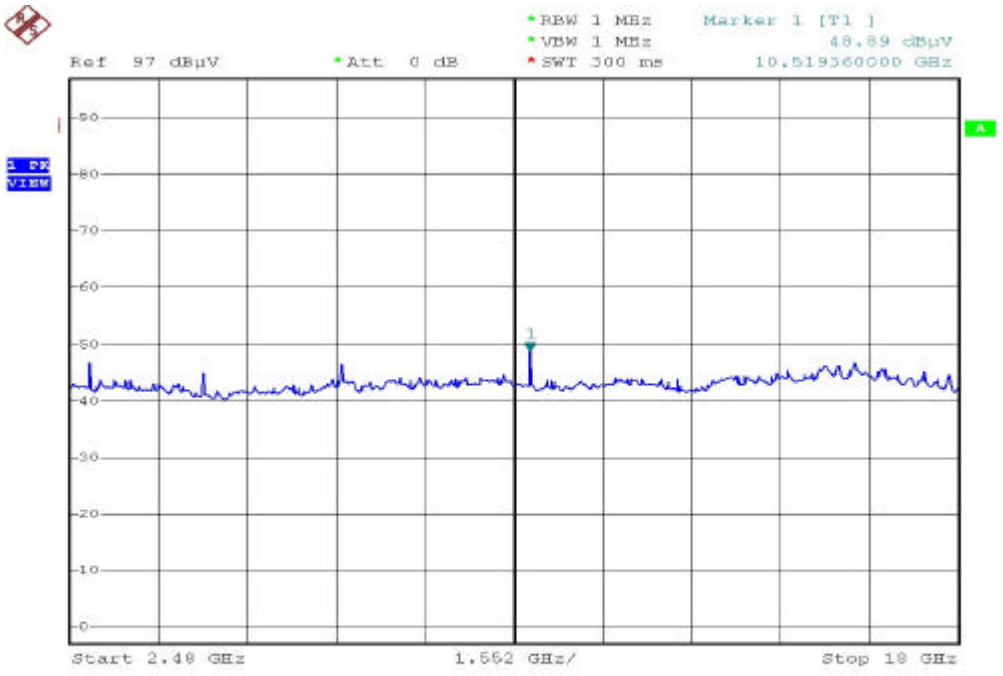


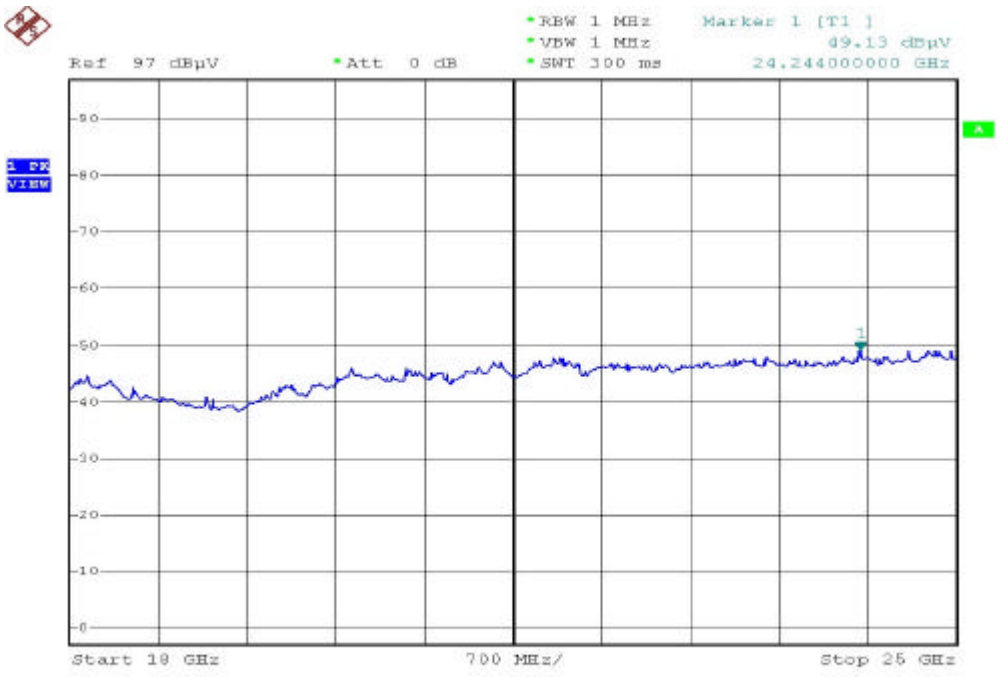


Modulation Standard: IEEE 802.11b

Pol/Phase: Vertical

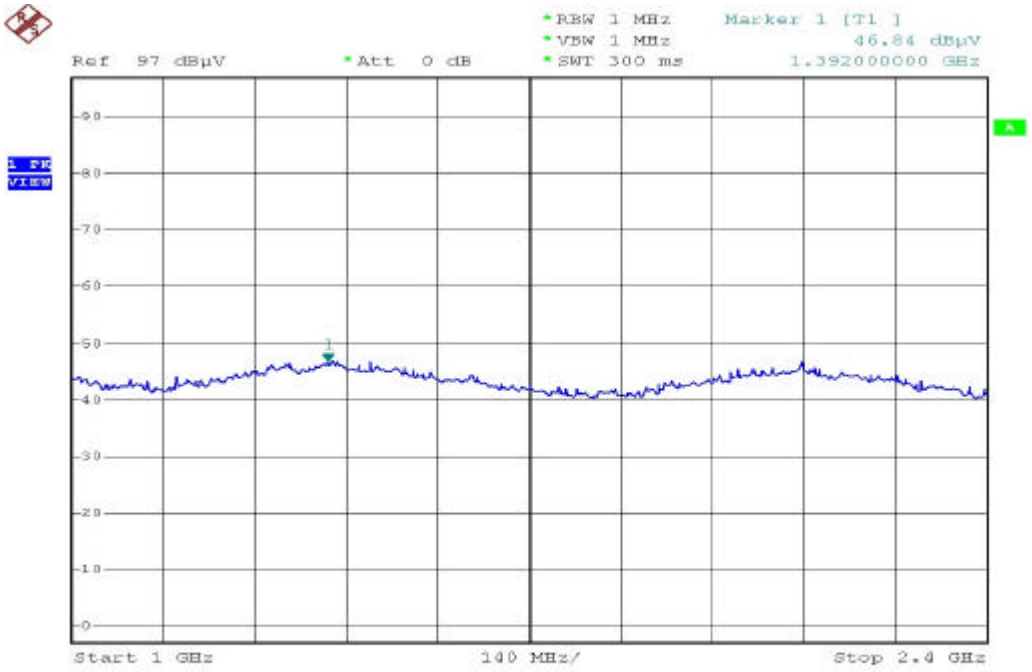


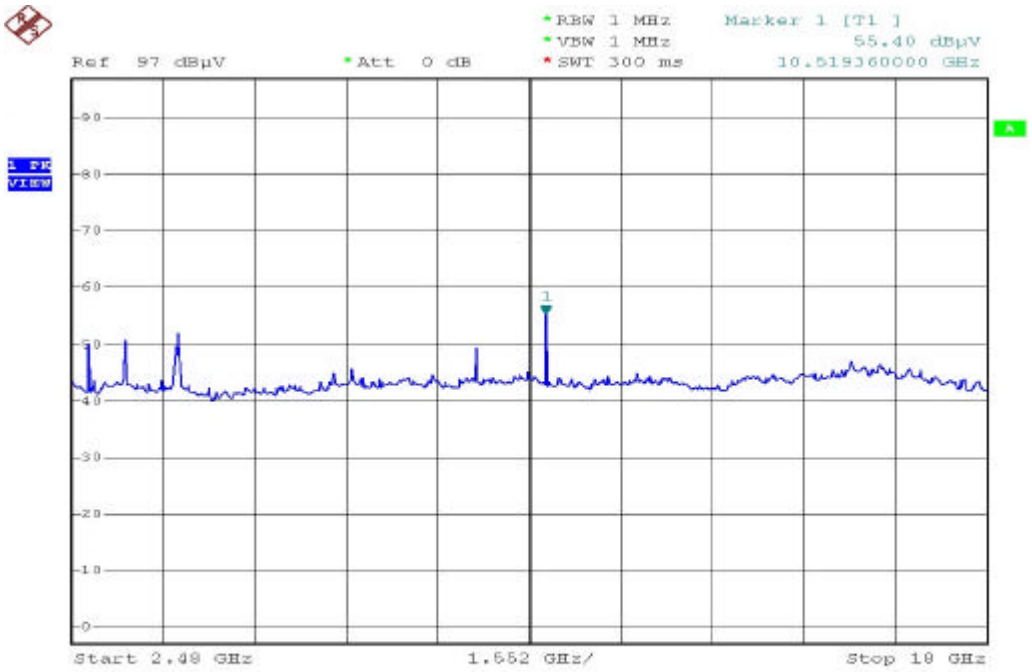

RBW 1 MHz
VBW 1 MHz
SWT 300 ms
Marker 1 [T1]
48.89 dBµV
10.519360000 GHz
Ref 97 dBµV
Att 0 dB
1 PK VIEW
A
Start 2.40 GHz
1.552 GHz/
Stop 10 GHz

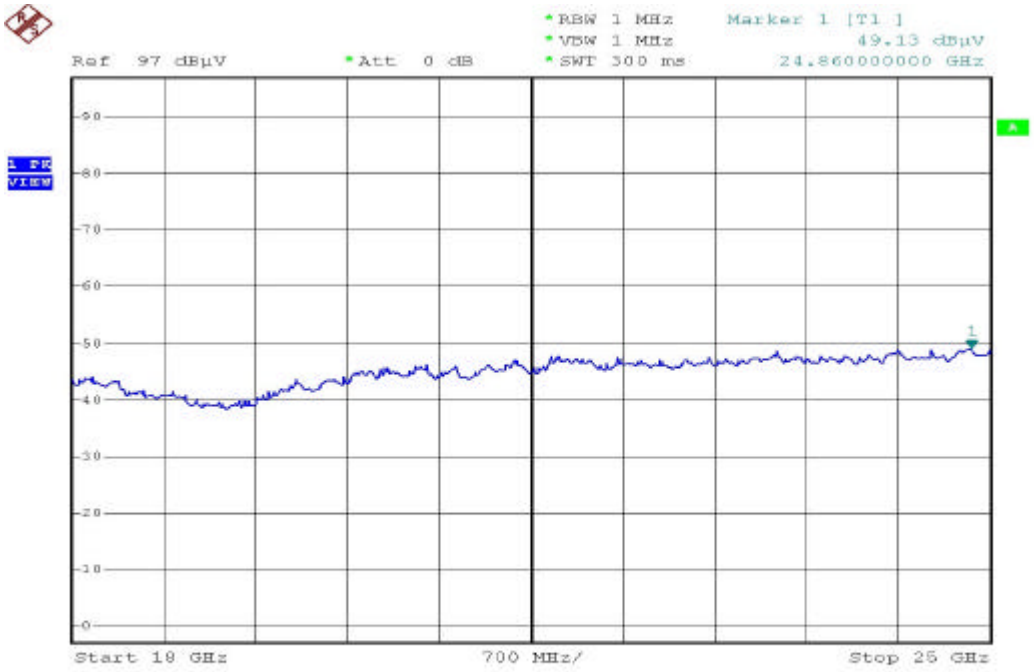

RBW 1 MHz
VBW 1 MHz
SWT 300 ms
Marker 1 [T1]
49.13 dBµV
24.244000000 GHz
Ref 97 dBµV
Att 0 dB
1 PK VIEW
A
Start 10 GHz
700 MHz/
Stop 25 GHz

Modulation Standard: IEEE 802.11g

Pol/Phase: Horizontal

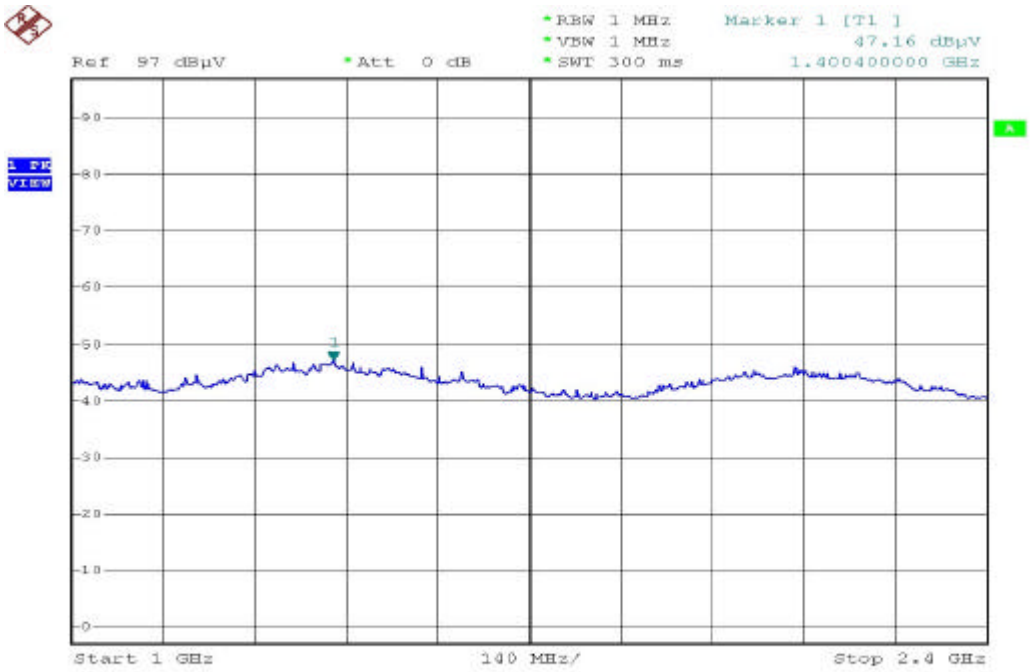


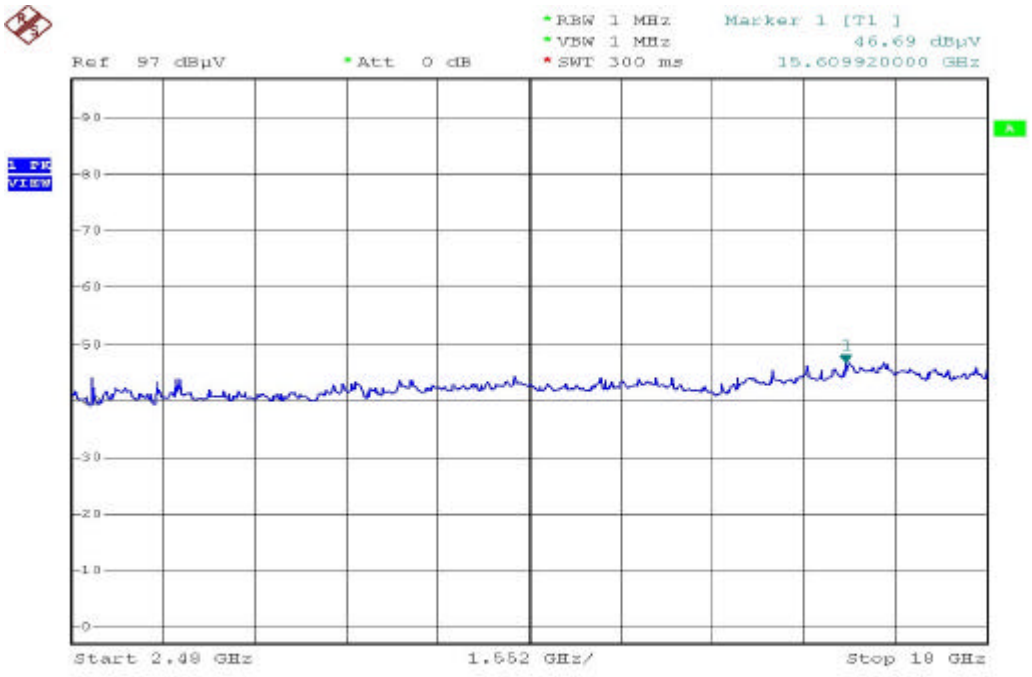


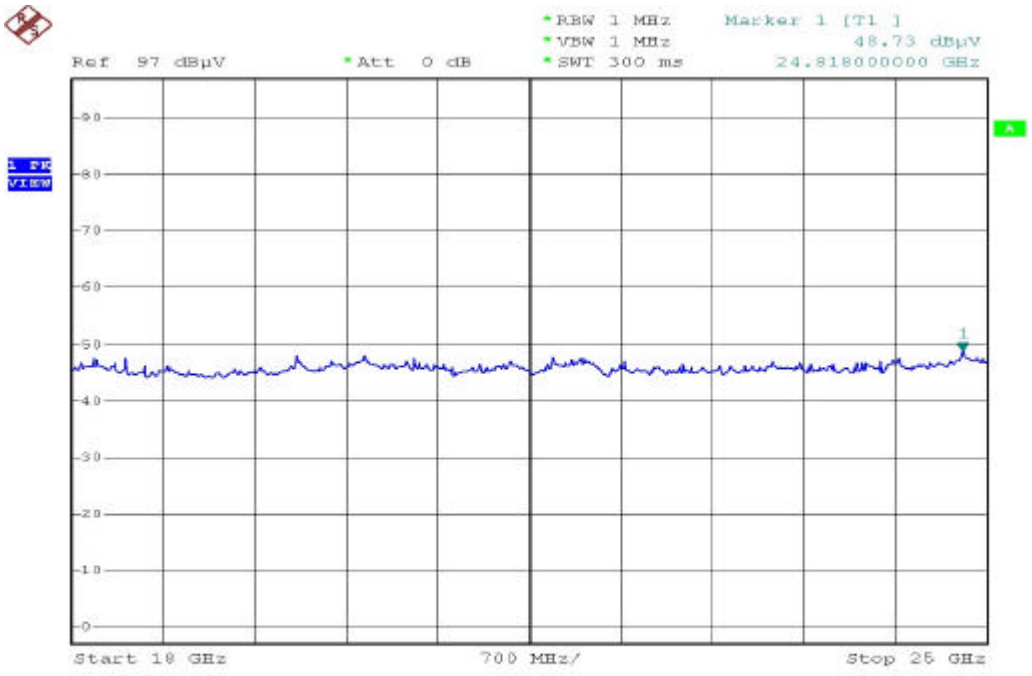


Modulation Standard: IEEE 802.11g

Pol/Phase: Vertical




RBW 1 MHz
VBW 1 MHz
SWT 300 ms
Marker 1 [T1]
46.69 dBµV
15.609920000 GHz
Ref 97 dBµV
Att 0 dB
1 PK
VIEW
Start 2.48 GHz
1.652 GHz/
Stop 10 GHz


RBW 1 MHz
VBW 1 MHz
SWT 300 ms
Marker 1 [T1]
48.73 dBµV
24.818000000 GHz
Ref 97 dBµV
Att 0 dB
1 PK
VIEW
Start 10 GHz
700 MHz/
Stop 25 GHz

4.3.3. Photographs of Radiated Emission Test

FRONT VIEW

REAR VIEW

4.4. 6dB Bandwidth Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Jul. 02. 2004 Temperature: 24℃ Humidity: 58%

a) Channel 01: 6dB Emission Bandwidth is 7.9 MHz

b) Channel 06: 6dB Emission Bandwidth is 7.7 MHz

c) Channel 11: 6dB Emission Bandwidth is 7.6 MHz

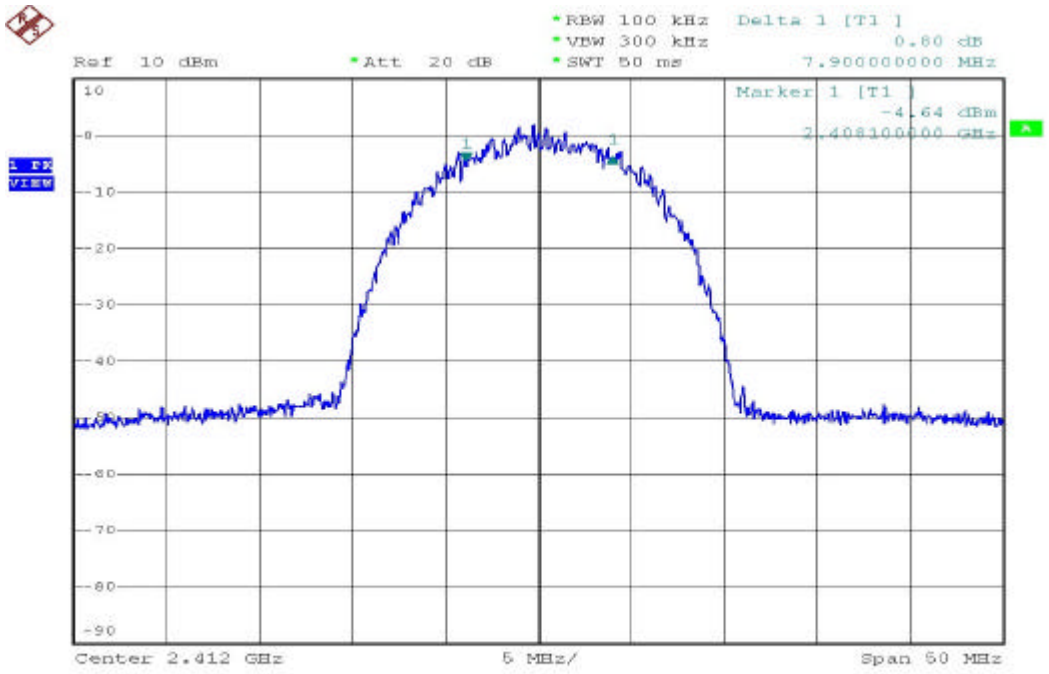
(2) Modulation Standard: IEEE 802.11g

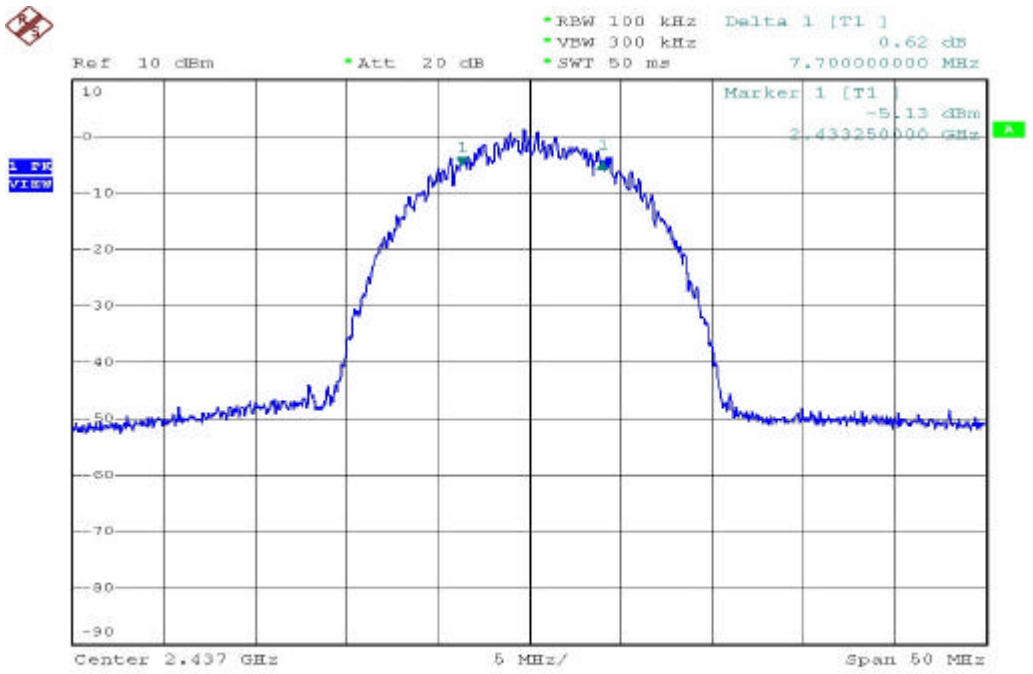
Test Date: Jul. 02. 2004 Temperature: 24℃ Humidity: 58%

a) Channel 01: 6dB Emission Bandwidth is 16.50 MHz

b) Channel 06: 6dB Emission Bandwidth is 16.40 MHz

c) Channel 11: 6dB Emission Bandwidth is 16.50 MHz


RBW 100 kHz
VBW 300 kHz
SWT 50 ms
Delta 1 [T1]
0.80 dB
7.900000000 MHz
Ref 10 dBm
Att 20 dB
Marker 1 [T1]
-4.64 dBm
2.408100000 GHz
1 PK VIEW
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
Center 2.412 GHz
5 MHz/
Span 50 MHz


RBW 100 kHz
VBW 300 kHz
SWT 50 ms
Delta 1 [T1]
0.62 dB
7.700000000 MHz
Ref 10 dBm
Att 20 dB
Marker 1 [T1]
-5.13 dBm
2.433250000 GHz
1 PK VIEW
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
Center 2.437 GHz
5 MHz/
Span 50 MHz