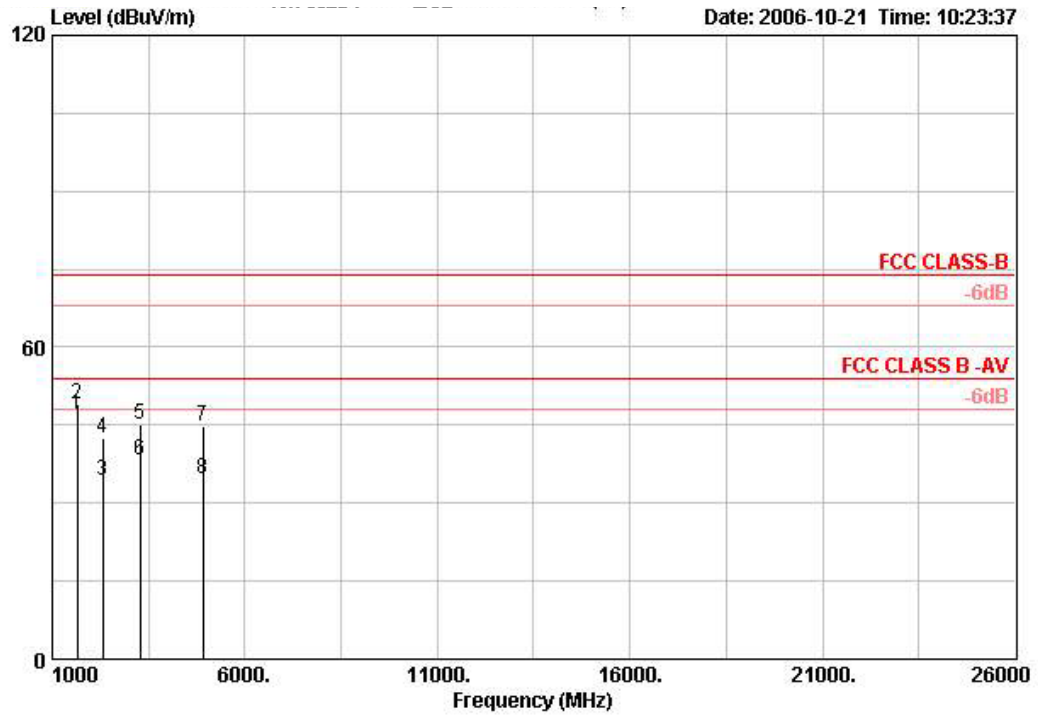


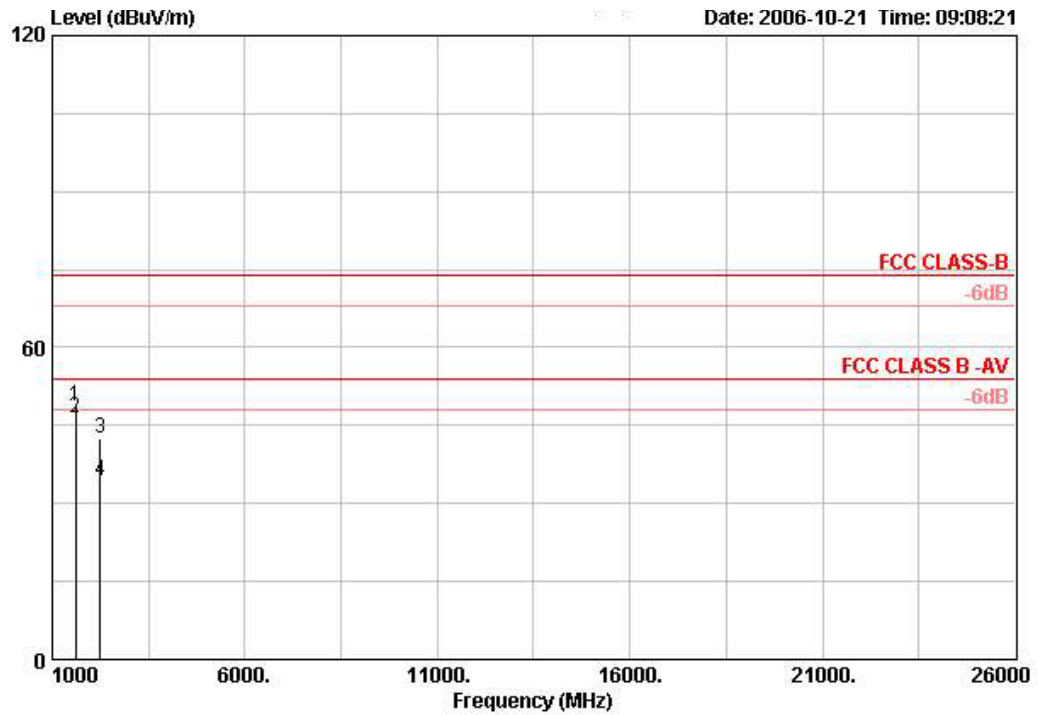
Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	1641.370	47.16	-6.84	54.00	53.69	2.30	34.73	AVERAGE	117	212	25.90
2	1641.450	48.89	-25.11	74.00	55.41	2.30	34.73	PEAK	117	212	25.90
3	2320.000	34.44	-19.56	54.00	38.78	2.71	35.07	AVERAGE	107	93	28.02
4	2320.210	42.44	-31.56	74.00	46.77	2.71	35.07	PEAK	107	93	28.02
5	3282.550	45.15	-28.85	74.00	47.10	3.18	35.12	PEAK	115	171	30.00
6	3282.700	38.26	-15.74	54.00	40.21	3.18	35.12	AVERAGE	115	171	30.00
7	4923.880	44.71	-29.29	74.00	42.29	4.30	35.14	PEAK	141	329	33.26
8	4924.040	34.75	-19.25	54.00	32.33	4.30	35.14	AVERAGE	141	329	33.26

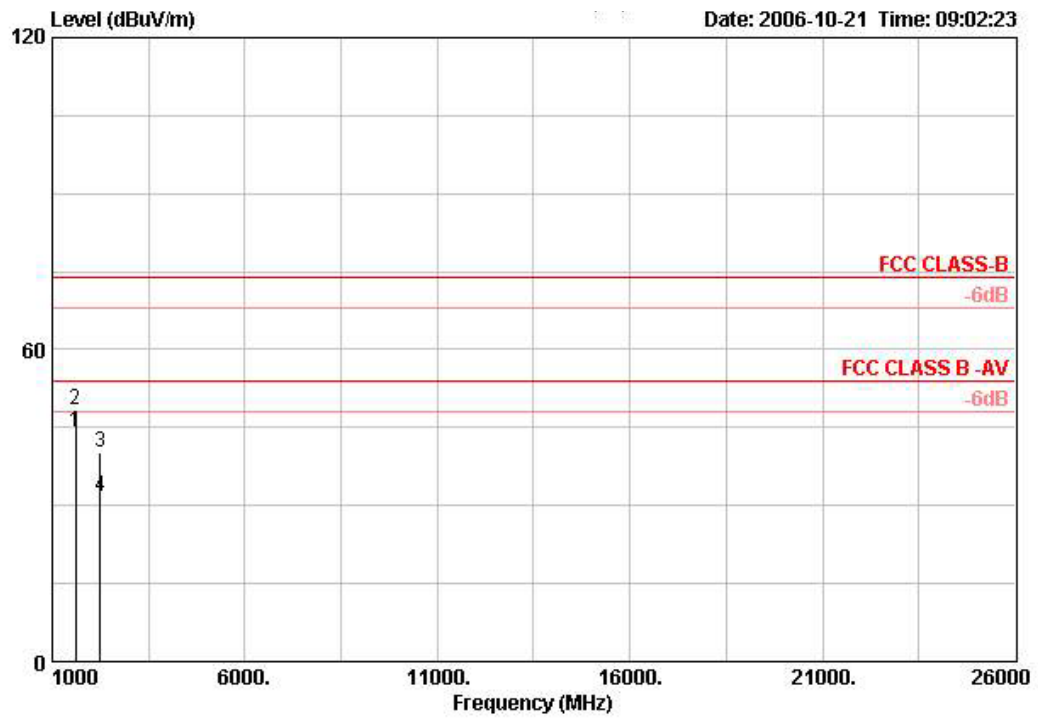
Temperature	24°C	Humidity	62%
Test Engineer	Jordan Hsiao	Configurations	802.11g CH 1

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Antenna Pos	Antenna Factor
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB	dB		cm	deg	dB/m
1	1607.970	48.60	-25.40	74.00	55.28	2.28	34.72	PEAK	128	0	25.77
2	1608.010	46.29	-7.71	54.00	52.96	2.28	34.72	AVERAGE	128	0	25.77
3	2239.670	42.39	-31.61	74.00	46.92	2.66	35.02	PEAK	144	12	27.83
4	2240.000	34.43	-19.57	54.00	38.96	2.66	35.02	AVERAGE	144	12	27.83

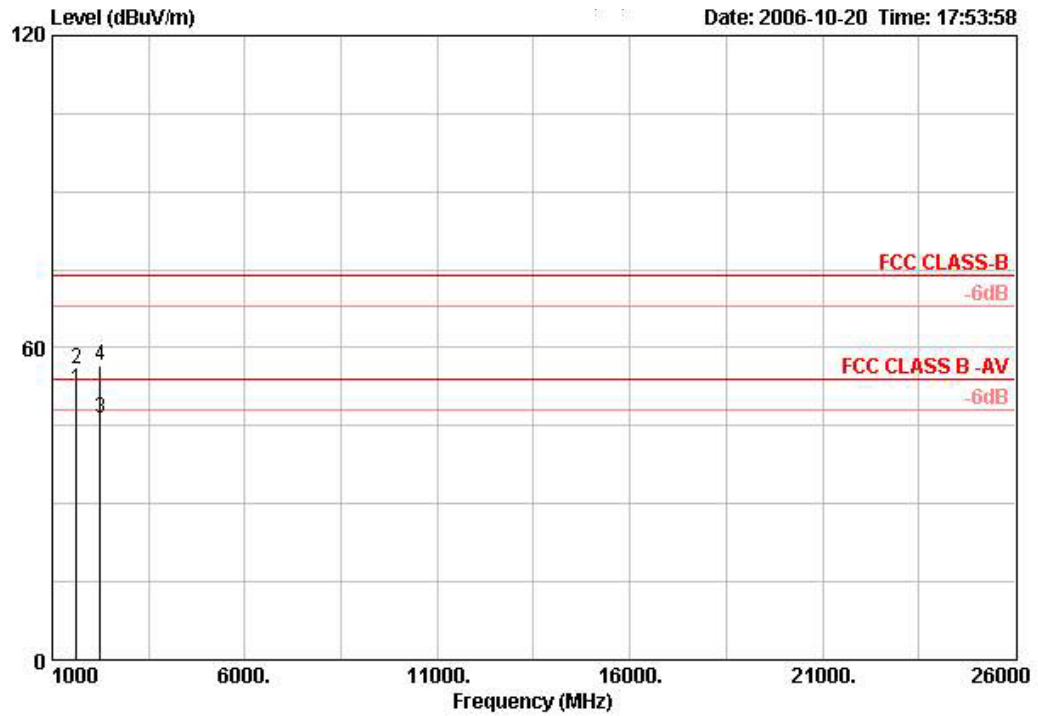
Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Antenna Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	1607.930	44.02	-9.98	54.00	50.70	2.28	34.72	AVERAGE	101	59	25.77
2	1607.980	48.41	-25.59	74.00	55.08	2.28	34.72	PEAK	101	59	25.77
3	2239.970	40.10	-33.90	74.00	44.63	2.66	35.02	PEAK	105	147	27.83
4	2240.000	31.77	-22.23	54.00	36.30	2.66	35.02	AVERAGE	105	147	27.83

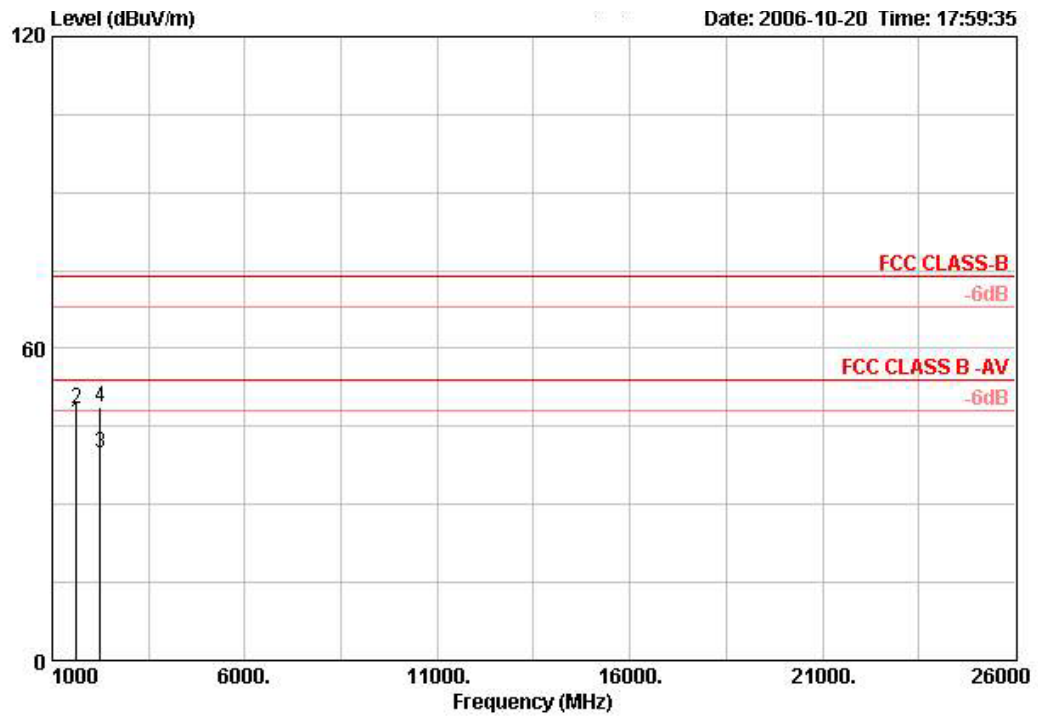
Temperature	24°C	Humidity	62%
Test Engineer	Jordan Hsiao	Configurations	802.11g CH 6

Vertical



	Freq	Level	Over	Limit	Read	Cable	Preamp	Remark	Ant	TableAntenna
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor		Pos	Pos Factor
			dB	dBuV/m	dBuV	dB	dB		cm	deg dB/m
1	1624.670	52.12	-1.88	54.00	58.72	2.28	34.72	AVERAGE	129	112 25.83
2	1624.760	56.01	-17.99	74.00	62.63	2.28	34.73	PEAK	129	112 25.83
3	2239.950	46.57	-7.43	54.00	51.10	2.66	35.02	AVERAGE	100	23 27.83
4	2240.120	56.49	-17.51	74.00	61.02	2.66	35.02	PEAK	100	23 27.83

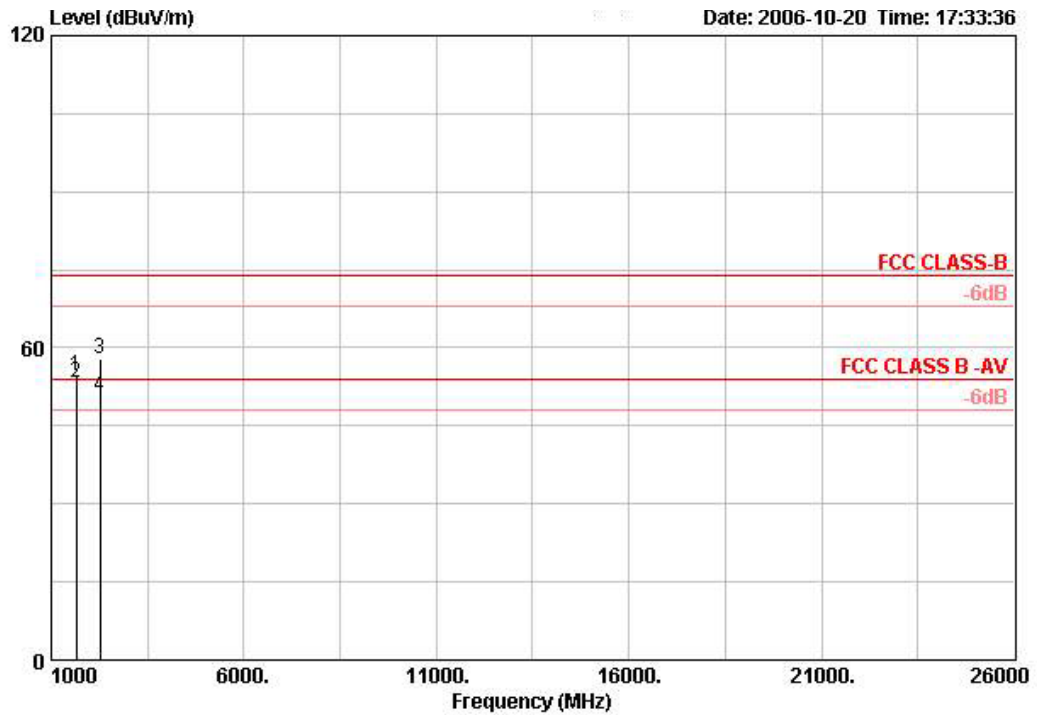
Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Antenna Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	1624.670	45.93	-8.07	54.00	52.53	2.28	34.72	AVERAGE	100	311	25.83
2	1624.700	48.36	-25.64	74.00	54.97	2.28	34.72	PEAK	100	311	25.83
3	2239.990	40.04	-13.96	54.00	44.57	2.66	35.02	AVERAGE	100	44	27.83
4	2240.260	48.68	-25.32	74.00	53.21	2.66	35.02	PEAK	100	44	27.83

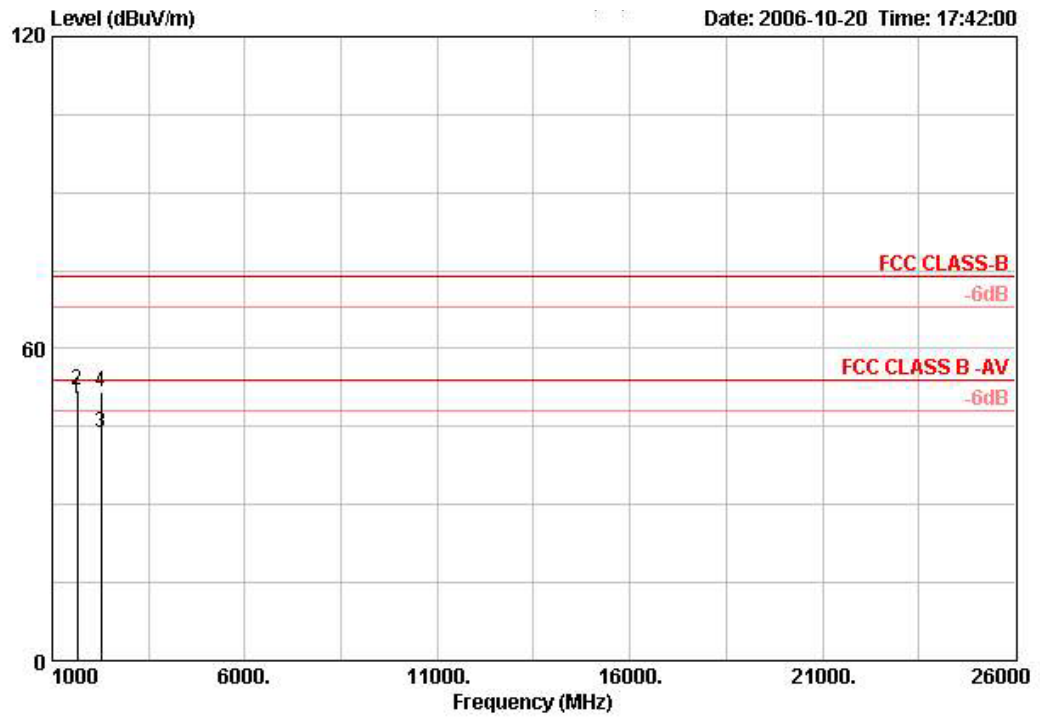
Temperature	24°C	Humidity	62%
Test Engineer	Jordan Hsiao	Configurations	802.11g CH 11

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Antenna Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	1641.340	54.64	-19.36	74.00	61.17	2.30	34.73	PEAK	131	103	25.90
2	1641.350	53.31	-0.69	54.00	59.83	2.30	34.73	AVERAGE	131	103	25.90
3	2257.030	57.74	-16.26	74.00	62.21	2.69	35.02	PEAK	100	196	27.87
4	2257.330	50.79	-3.21	54.00	55.26	2.69	35.02	AVERAGE	100	196	27.87

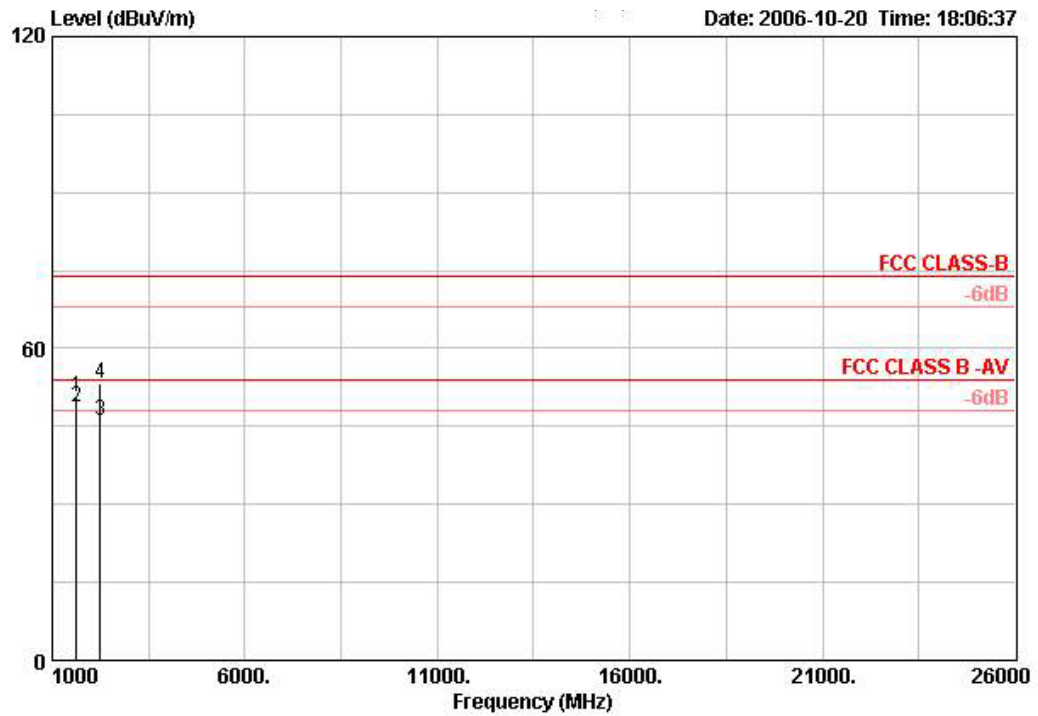
Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1 !	1641.325	50.51	-3.49	54.00	57.04	2.30	34.73	AVERAGE	107	181	25.90
2	1641.391	51.98	-22.02	74.00	58.51	2.30	34.73	PEAK	107	181	25.90
3	2257.310	43.94	-10.06	54.00	48.41	2.69	35.02	AVERAGE	103	276	27.87
4	2257.570	51.62	-22.38	74.00	56.08	2.69	35.02	PEAK	103	276	27.87

Temperature	24°C	Humidity	62%
Test Engineer	Jordan Hsiao	Configurations	802.11g Turbo CH 6

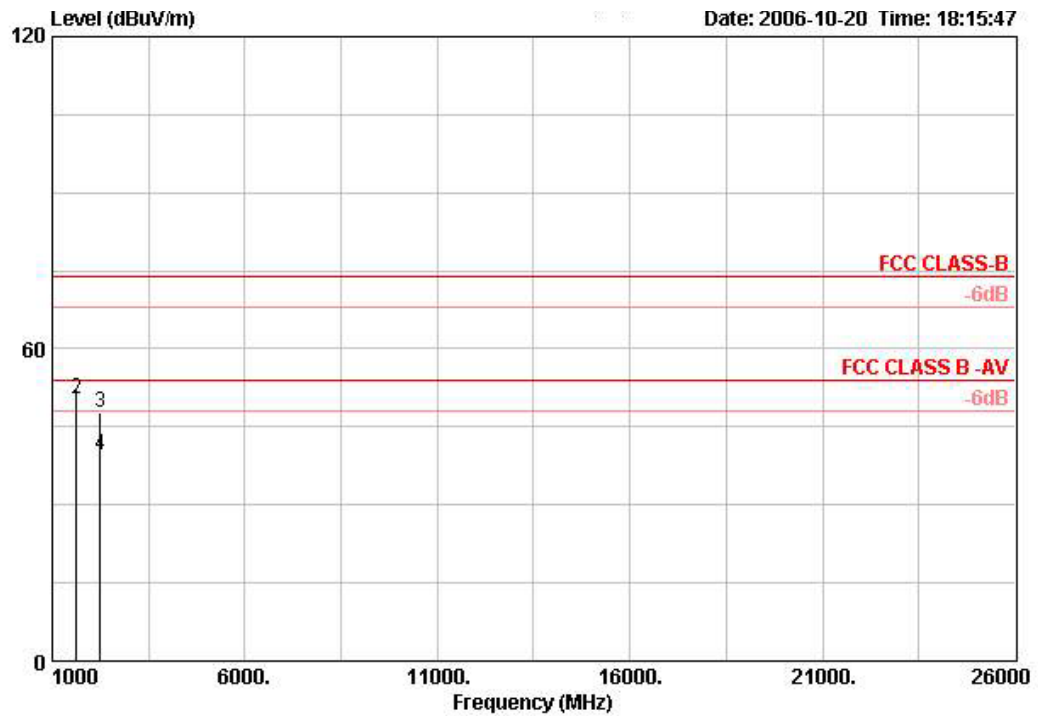
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Antenna Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	1624.660	50.61	-23.39	74.00	57.22	2.28	34.72	PEAK	100	225	25.83
2 !	1624.660	48.80	-5.20	54.00	55.40	2.28	34.72	AVERAGE	100	225	25.83
3	2239.960	45.97	-8.03	54.00	50.50	2.66	35.02	AVERAGE	100	31	27.83
4	2239.960	53.26	-20.74	74.00	57.79	2.66	35.02	PEAK	100	31	27.83



Horizontal



	Freq	Level	Over	Limit	Read	Cable	Preamp	Remark	Ant	Table	Antenna
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1 !	1624.670	48.52	-5.48	54.00	55.13	2.28	34.72	AVERAGE	112	180	25.83
2	1624.690	50.46	-23.54	74.00	57.06	2.28	34.72	PEAK	112	180	25.83
3	2239.770	47.83	-26.17	74.00	52.36	2.66	35.02	PEAK	133	281	27.83
4	2240.010	39.52	-14.48	54.00	44.05	2.66	35.02	AVERAGE	133	281	27.83

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBUV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

## 4.6. Band Edge Emissions Measurement

### 4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micovolts/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

### 4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1 MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

### 4.6.3. Test Procedures

1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

### 4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

### 4.6.5. Test Deviation

There is no deviation with the original standard.

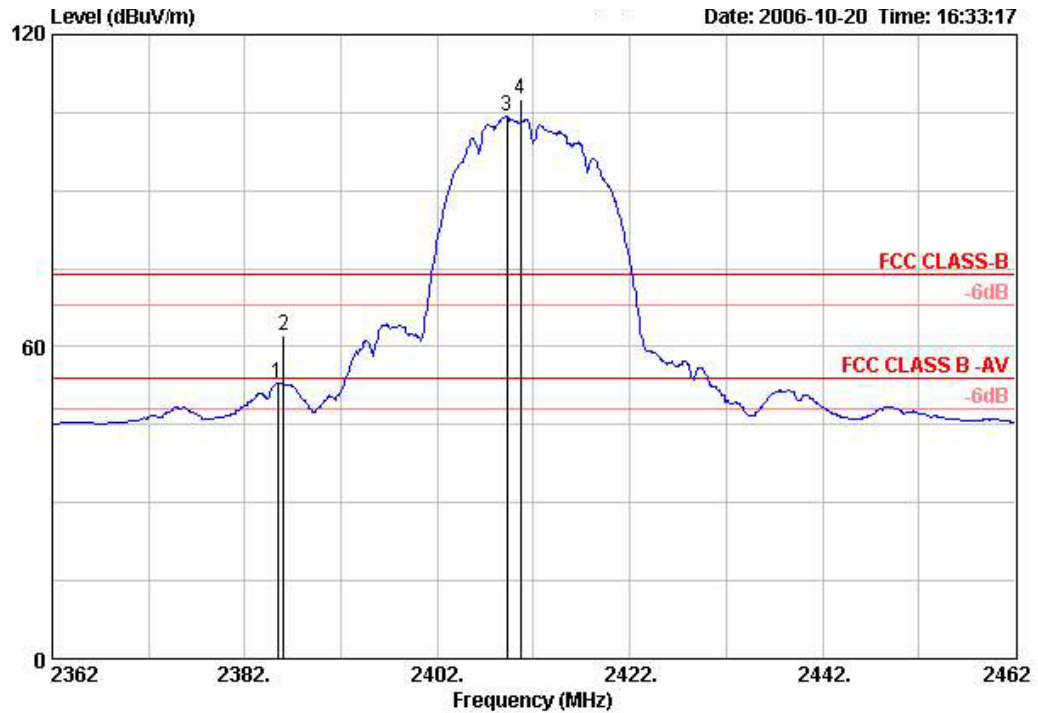
### 4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	24°C	Humidity	62%
Test Engineer	Jordan Hsiao	Configurations	802.11b CH 1, 11

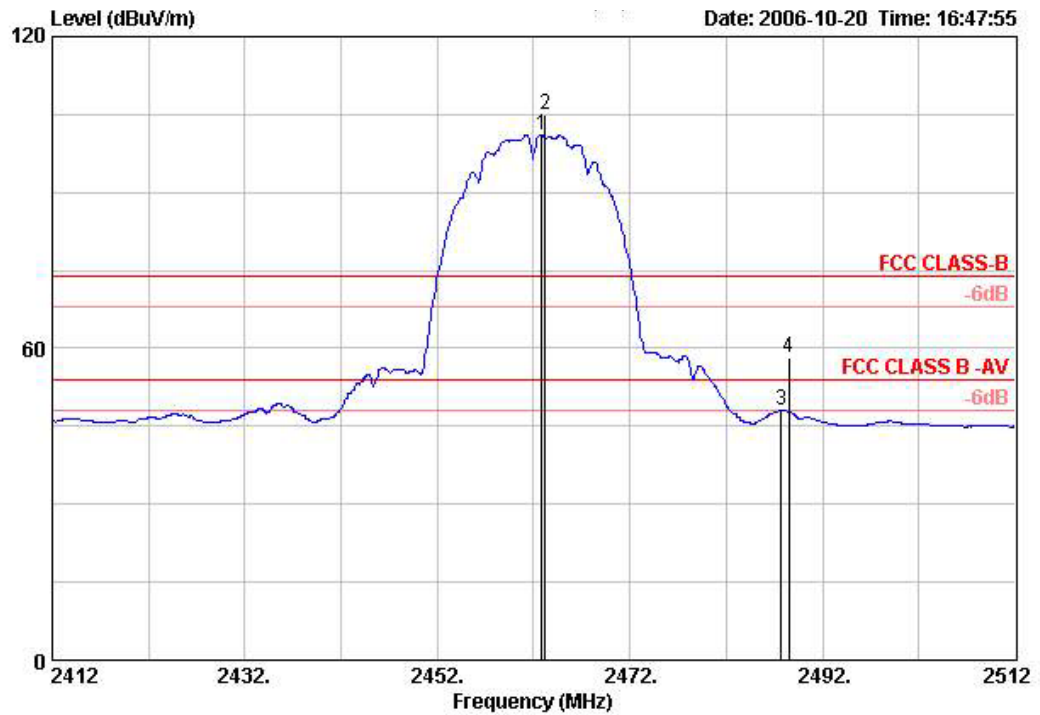
Channel 1



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Antenna Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	2385.400	53.02	-0.98	54.00	22.12	2.76	0.00	AVERAGE	100	123	28.13
2	2386.000	62.22	-11.78	74.00	31.29	2.76	0.00	PEAK	100	123	28.17
3	2409.200	104.17			73.18	2.79	0.00	AVERAGE	100	123	28.21
4	2410.600	107.58			76.59	2.79	0.00	PEAK	100	123	28.21

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 11

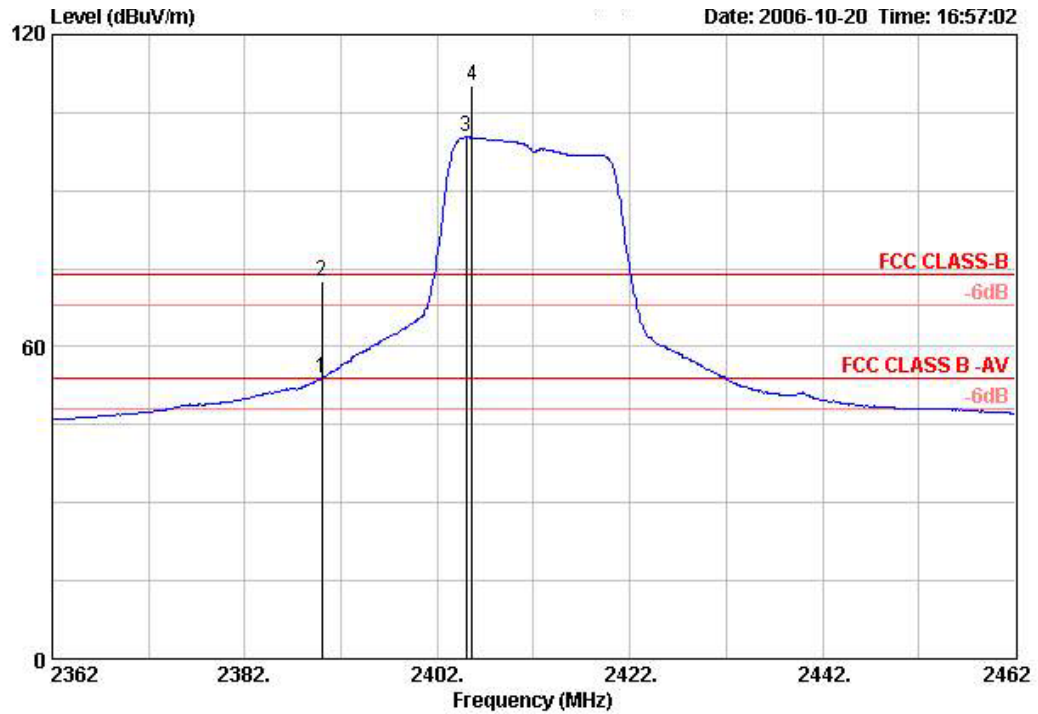


	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	TableAntenna Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	2462.800	101.09			69.95	2.81	0.00	AVERAGE	100	70	28.32
2	2463.200	104.93			73.79	2.81	0.00	PEAK	100	70	28.32
3	2487.700	47.95	-6.05	54.00	16.71	2.84	0.00	AVERAGE	100	70	28.40
4	2488.500	58.23	-15.77	74.00	26.99	2.84	0.00	PEAK	100	70	28.40

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	24°C	Humidity	62%
Test Engineer	Jordan Hsiao	Configurations	802.11g CH 1, 11

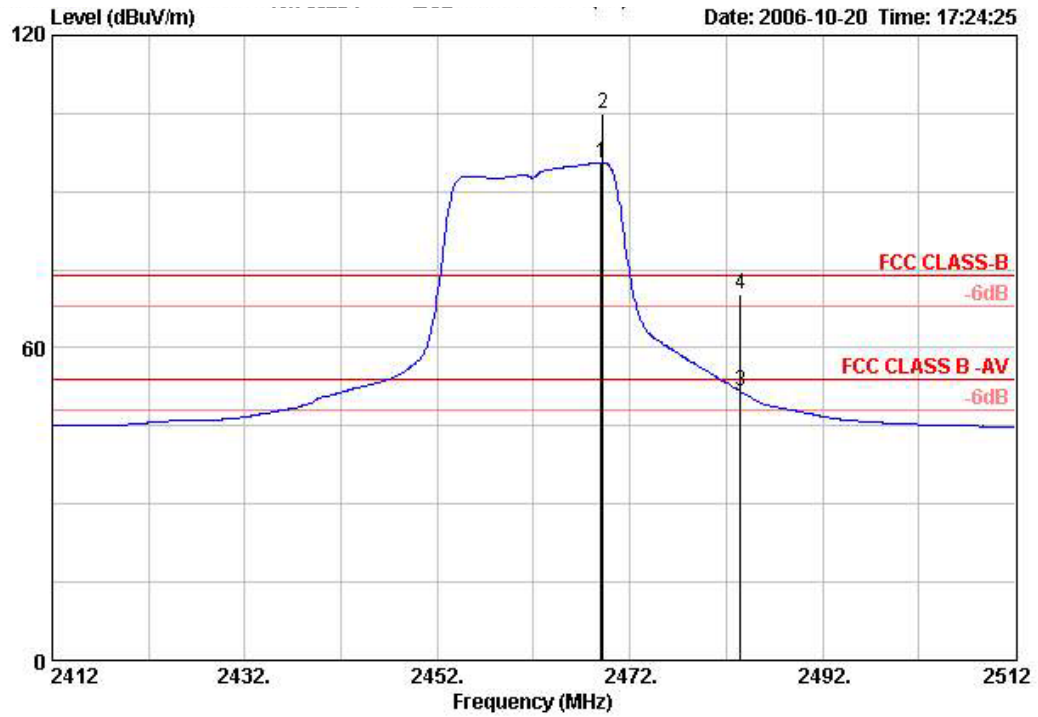
Channel 1



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Antenna Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	2390.000	53.88	-0.12	54.00	22.94	2.76	0.00	AVERAGE	100	121	28.17
2	2390.000	72.50	-1.50	74.00	41.56	2.76	0.00	PEAK	100	121	28.17
3	2405.000	100.25			69.28	2.76	0.00	AVERAGE	100	121	28.21
4	2405.600	110.32			79.32	2.79	0.00	PEAK	100	121	28.21

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 11

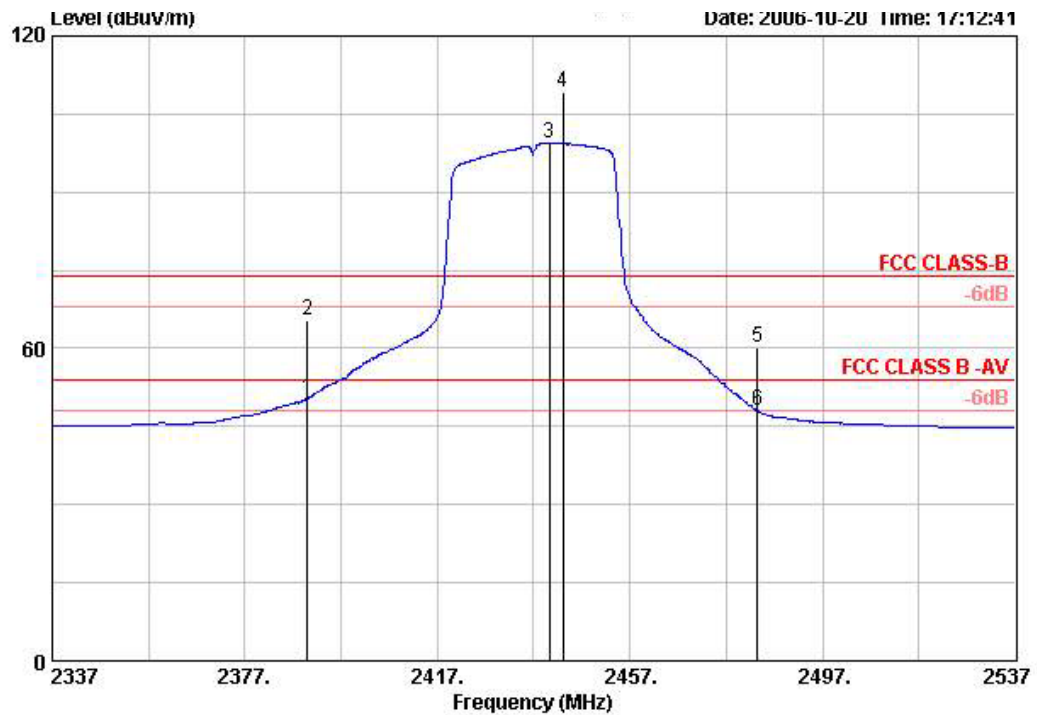


	Freq	Level	Over	Limit	Read	Cable	Preamp	Remark	Ant	Table	Antenna
	MHz	dBUV/m	Limit	Line	Level	Loss	Factor		Pos	Pos	Factor
			dB	dBUV/m	dBuV	dB	dB		cm	deg	dB/m
1	2469.000	95.45			64.31	2.81	0.00	AVERAGE	100	224	28.32
2	2469.200	104.97			73.83	2.81	0.00	PEAK	100	224	28.32
3	2483.500	51.53	-2.47	54.00	20.33	2.84	0.00	AVERAGE	100	224	28.36
4	2483.500	70.28	-3.72	74.00	39.08	2.84	0.00	PEAK	100	224	28.36

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	24°C	Humidity	62%
Test Engineer	Jordan Hsiao	Configurations	802.11g Turbo CH 6

Turbo Channel 6



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Remark	Ant Pos	TableAntenna Pos	Antenna Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1 !	2390.000	50.48	-3.52	54.00	19.55	2.76	0.00	AVERAGE	100	118	28.17
2	2390.000	65.47	-8.53	74.00	34.53	2.76	0.00	PEAK	100	118	28.17
3 Ⓟ	2440.200	99.47			68.40	2.79	0.00	AVERAGE	100	118	28.29
4 Ⓟ	2443.000	109.27			78.20	2.79	0.00	PEAK	100	118	28.29
5	2483.500	60.11	-13.89	74.00	28.91	2.84	0.00	PEAK	100	118	28.36
6 !	2483.500	48.10	-5.90	54.00	16.90	2.84	0.00	AVERAGE	100	118	28.36

Item 3, 4 are the fundamental frequency at 2437 MHz.

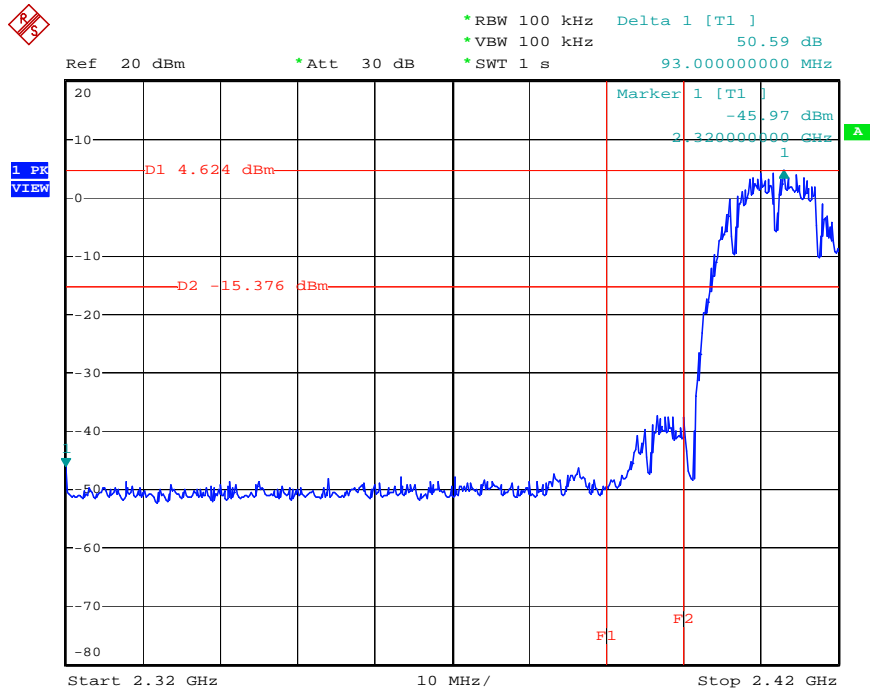
Note:

Emission level (dBUV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

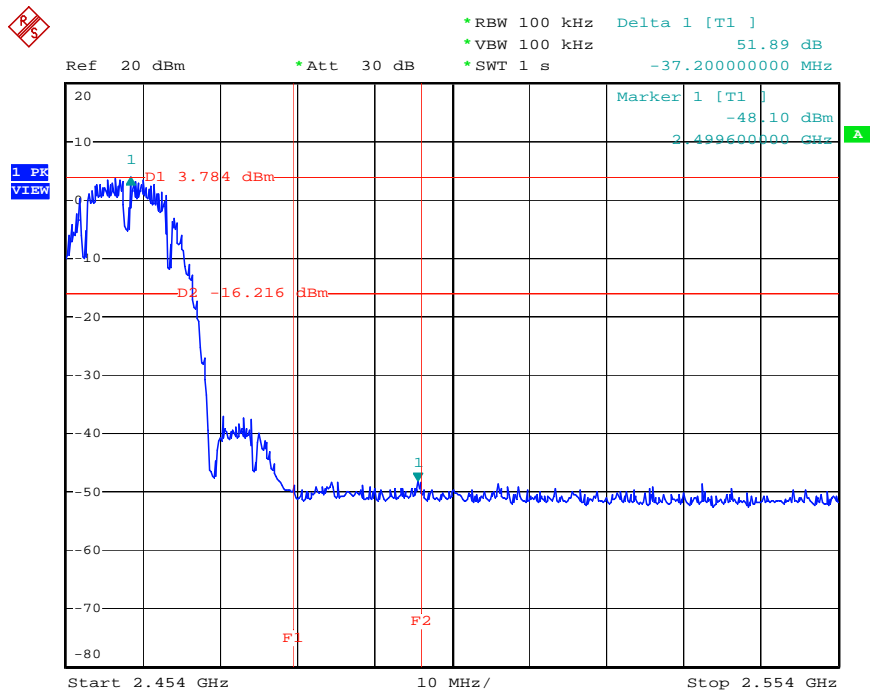
For Emission not in Restricted Band

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 23.OCT.2006 12:09:02

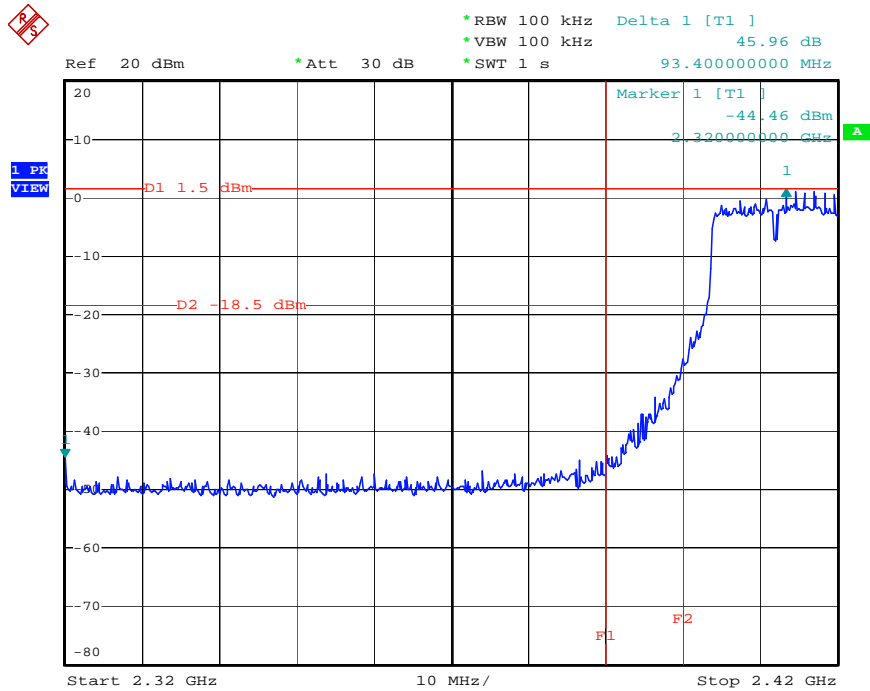
High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



Date: 23.OCT.2006 12:10:23

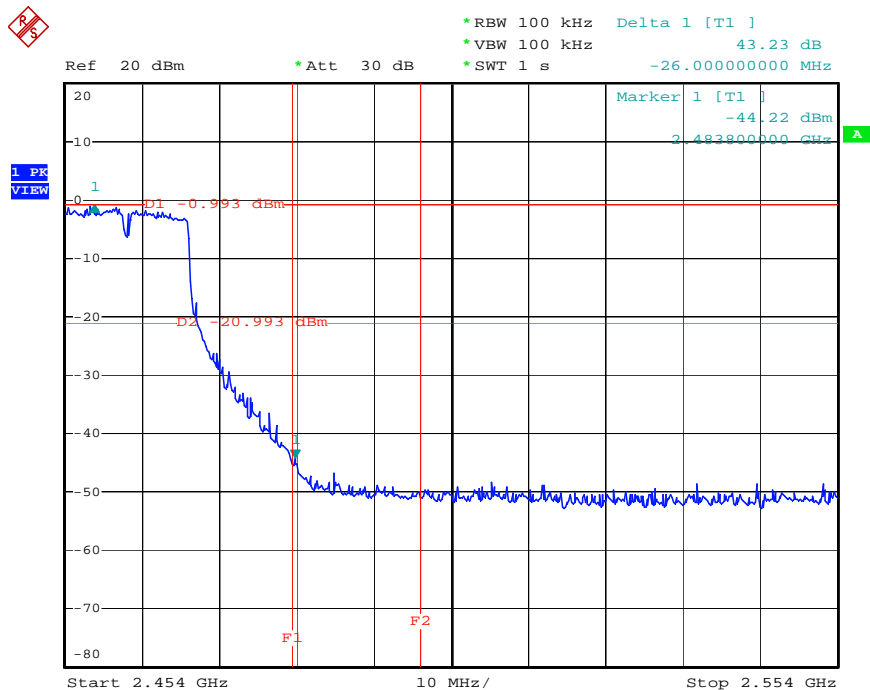


### Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



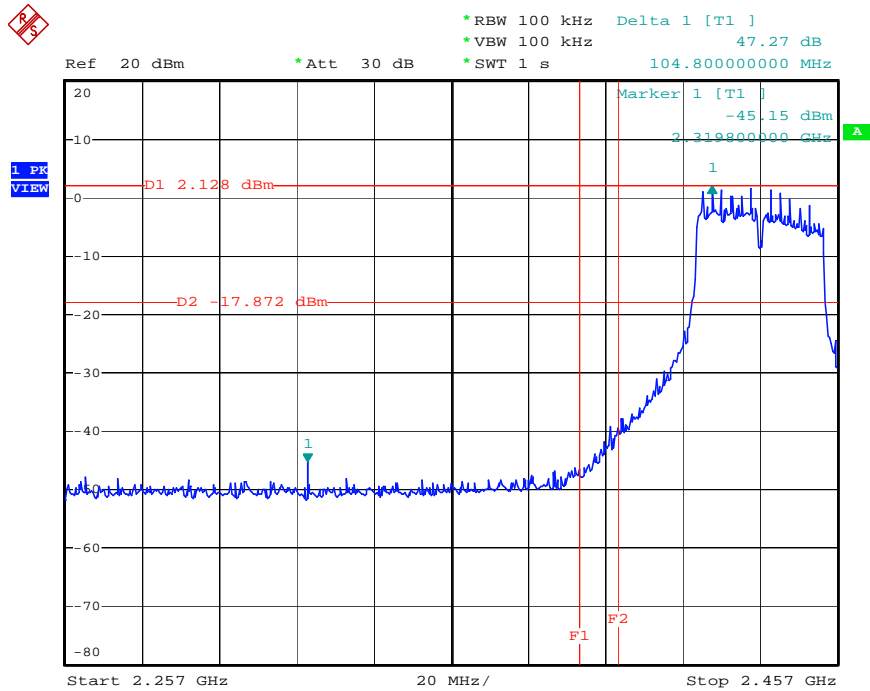
Date: 23.OCT.2006 11:34:34

### High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



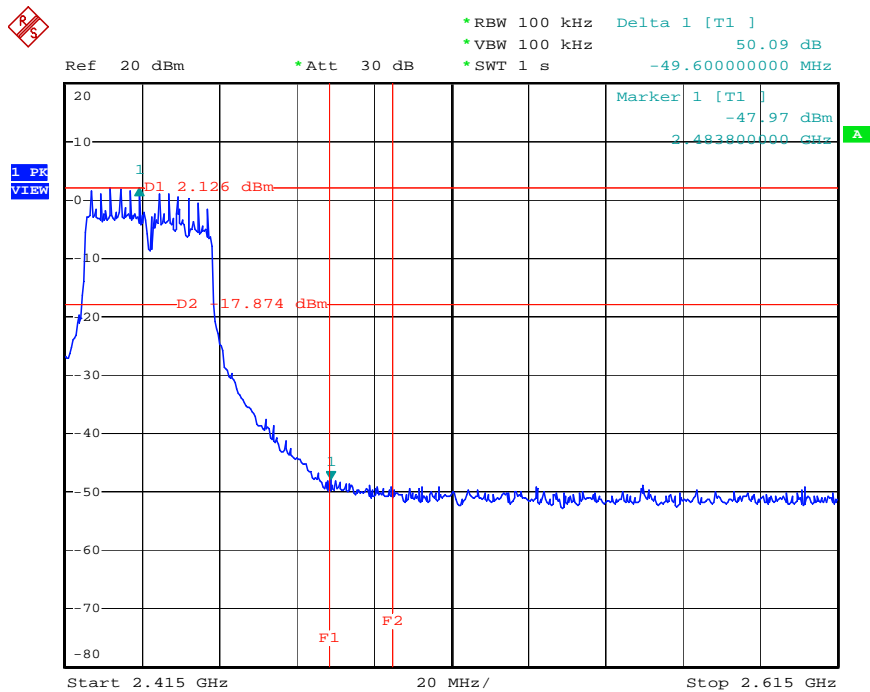
Date: 23.OCT.2006 11:35:59

### Low Band Edge Plot on Configuration IEEE 802.11g Turbo / 2437 MHz



Date: 23.OCT.2006 11:38:55

### High Band Edge Plot on Configuration IEEE 802.11g Turbo/ 2437 MHz



Date: 23.OCT.2006 11:39:05

## 4.7. Antenna Requirements

### 4.7.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### 4.7.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

## 5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 15, 2006	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	18667	9 kHz - 2 GHz	Jan. 18, 2006	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	May 29, 2006	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 24, 2006*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004/040	9 kHz - 40 GHz	Sep. 21, 2006	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 23, 2006*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz - 1 GHz	Jul. 24, 2006	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6903	1GHz ~ 18GHz	Mar. 15, 2006	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	NCR	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec.02, 2005	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec.02, 2005	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 - 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
EMC Receiver	R&S	ESCS 30	100174	9kHz - 2.75GHz	Feb. 22, 2006	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz - 30MHz	Dec. 19, 2005	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9708-1839	9kHz - 30MHz	Mar. 18, 2006	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz - 30MHz	Apr. 20, 2006	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Nov. 26, 2005	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100764	DC ~ 40GHz	Jul. 20, 2006	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100666	DC ~ 40GHz	Jul. 20, 2006	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 10, 2006	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Apr. 21, 2005*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Dec. 28, 2005	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 02, 2006	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 30, 2006	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 30, 2006	Conducted (TH01-HY)
Oscilloscope	Tektronix	TDS1012	CO38515	100MHz / 1GS/s	Jun. 20, 2006	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Dec. 30, 2005	Conducted (TH01-HY)
Data Generator	Tektronix	DG2030	063-2920-50	0.1Hz~400MHz	Jun. 16, 2006	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

\* Calibration Interval of instruments listed above is two year.

NCR means Non-Calibration required.

## 6. TEST LOCATION

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 886-2-2696-2468 FAX : 886-2-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 886-2-2601-1640 FAX : 886-2-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 886-2-2631-4739 FAX : 886-2-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C. TEL : 886-2-2794-8886 FAX : 886-2-2794-9777
JHUBEI	ADD : No.8, Lane 728, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085