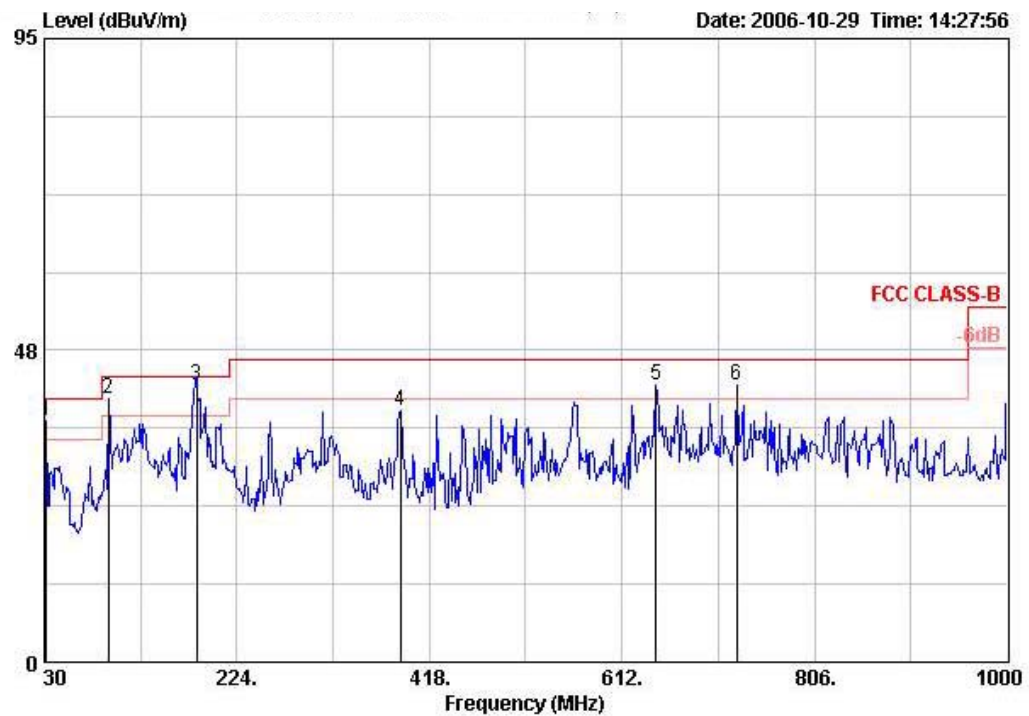


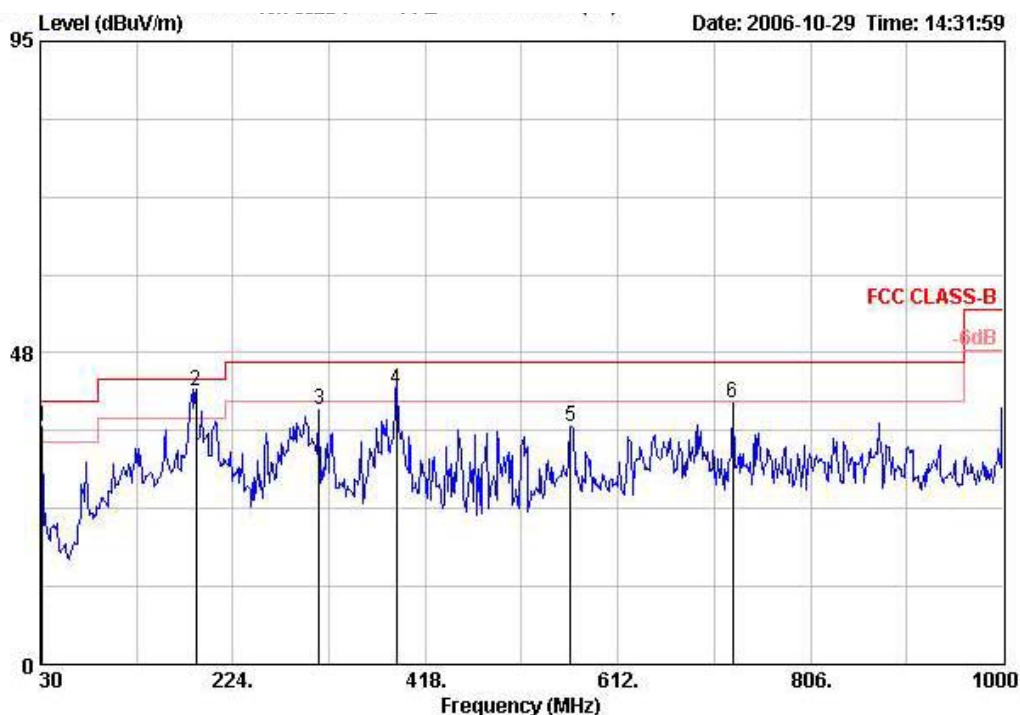
Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11g CH 6 / Mode 5

Vertical



	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 !	31.940	36.74	-3.26	40.00	48.82	0.93	31.67	Peak	---	---	18.66
2 !	94.990	40.01	-3.49	43.50	59.97	1.50	31.76	Peak	---	---	10.30
3 @	183.260	42.19	-1.31	43.50	62.13	2.00	31.61	QP	100	180	9.67
4	388.900	38.28	-7.72	46.00	50.38	2.63	31.08	Peak	---	---	16.34
5 !	645.950	42.30	-3.70	46.00	49.61	3.47	30.34	Peak	---	---	19.56
6 !	727.430	42.09	-3.91	46.00	48.63	3.77	30.38	Peak	---	---	20.07

Horizontal



	Freq	Level	Over	Limit	Read	Cable	Preamp		Ant	TableAntenna
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg dB/m
1 !	31.940	36.24	-3.76	40.00	48.32	0.93	31.67	Peak	---	18.66
2 @	187.140	41.59	-1.91	43.50	61.58	1.95	31.57	QP	152	81 9.63
3	311.300	38.75	-7.25	46.00	53.48	2.25	31.30	Peak	---	14.32
4 !	388.900	42.06	-3.94	46.00	54.16	2.63	31.08	QP	131	72 16.34
5	564.470	36.26	-9.74	46.00	44.88	3.17	30.75	Peak	---	18.96
6	727.430	39.78	-6.22	46.00	46.32	3.77	30.38	Peak	---	20.07

Note:

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

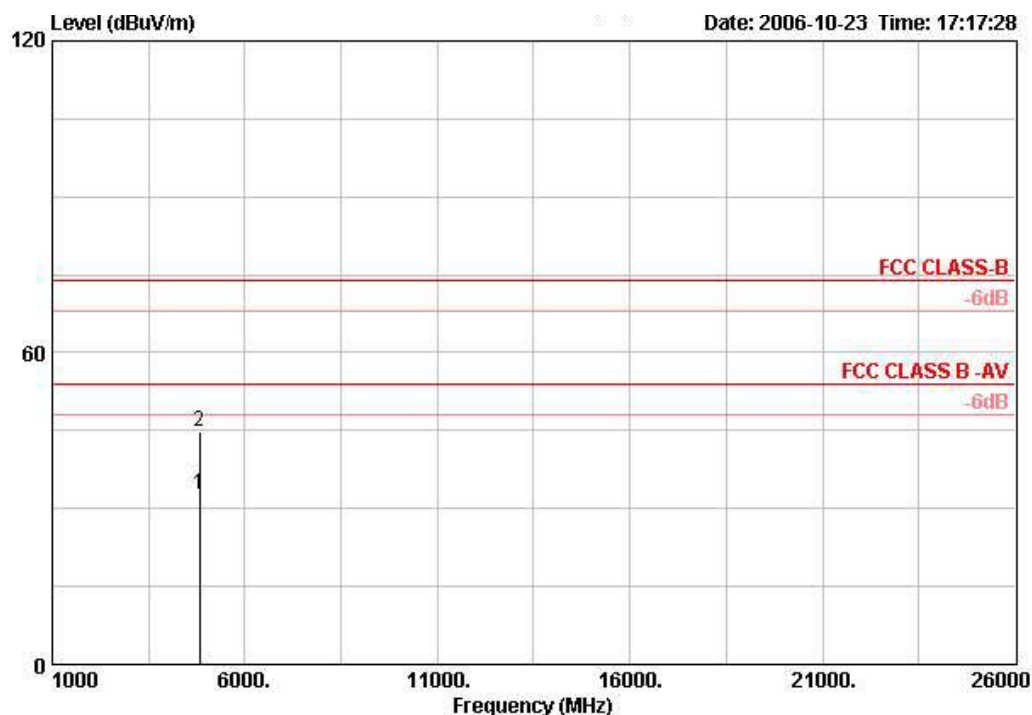
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

4.5.9. Results for Radiated Emissions (1GHz~10th Harmonic)

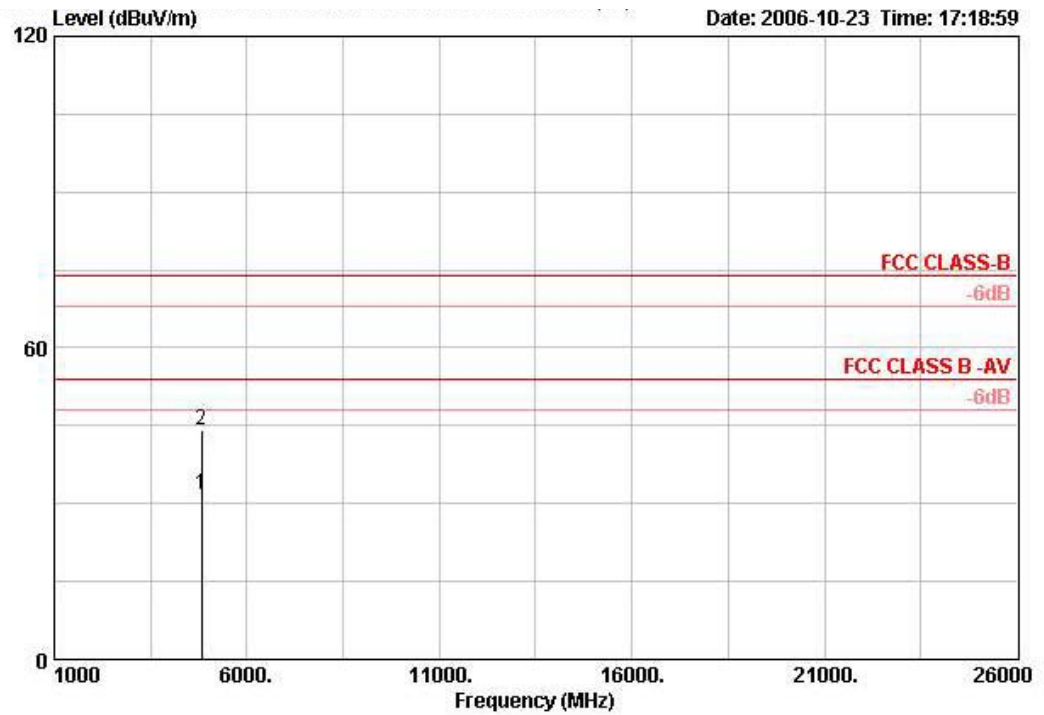
Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11b CH 1

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	4824.020	32.56	-21.44	54.00	30.37	4.30	35.16	AVERAGE	100	164	33.06
2	4825.880	44.80	-29.20	74.00	42.61	4.30	35.16	PEAK	100	164	33.06

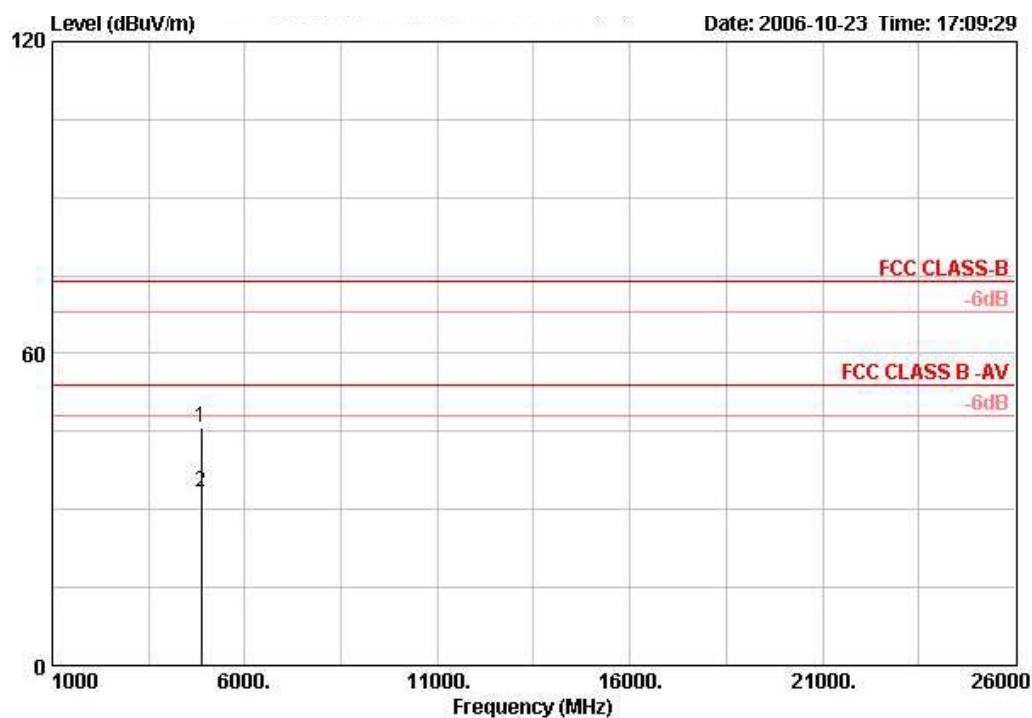
Horizontal



	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	4823.980	31.86	-22.14	54.00	29.67	4.30	35.16	AVERAGE	100	79	33.06
2	4826.980	44.00	-30.00	74.00	41.81	4.30	35.16	PEAK	100	79	33.06

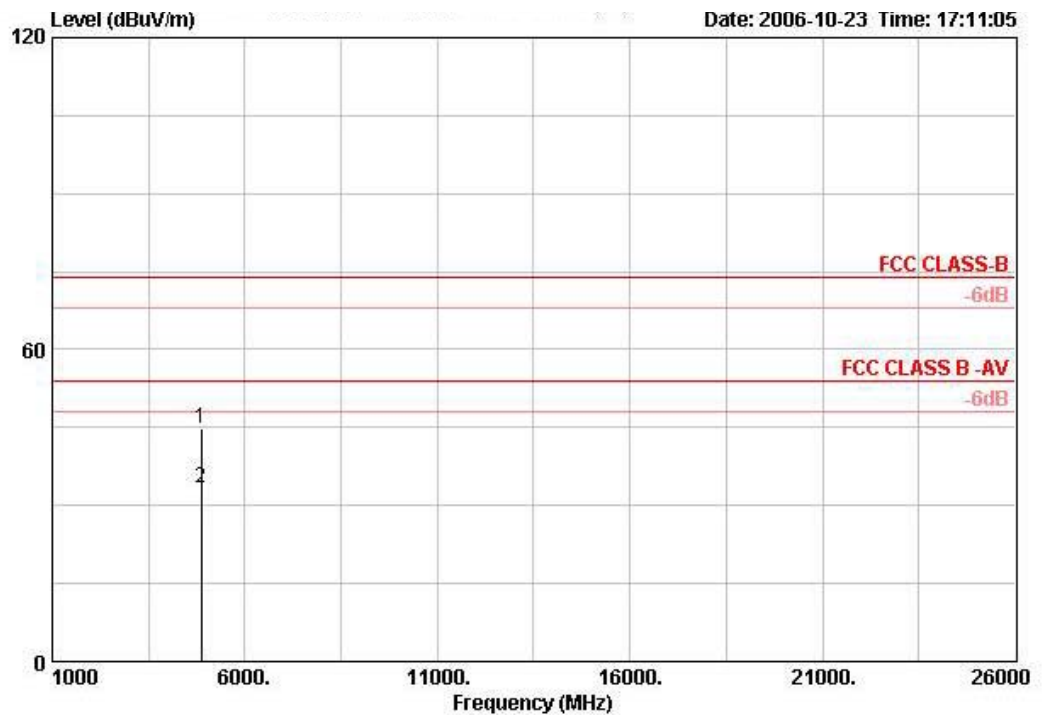
Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11b CH 6

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	4873.750	45.84	-28.16	74.00	43.54	4.30	35.15	PEAK	100	171	33.16
2	4874.010	33.45	-20.55	54.00	31.15	4.30	35.15	AVERAGE	100	171	33.16

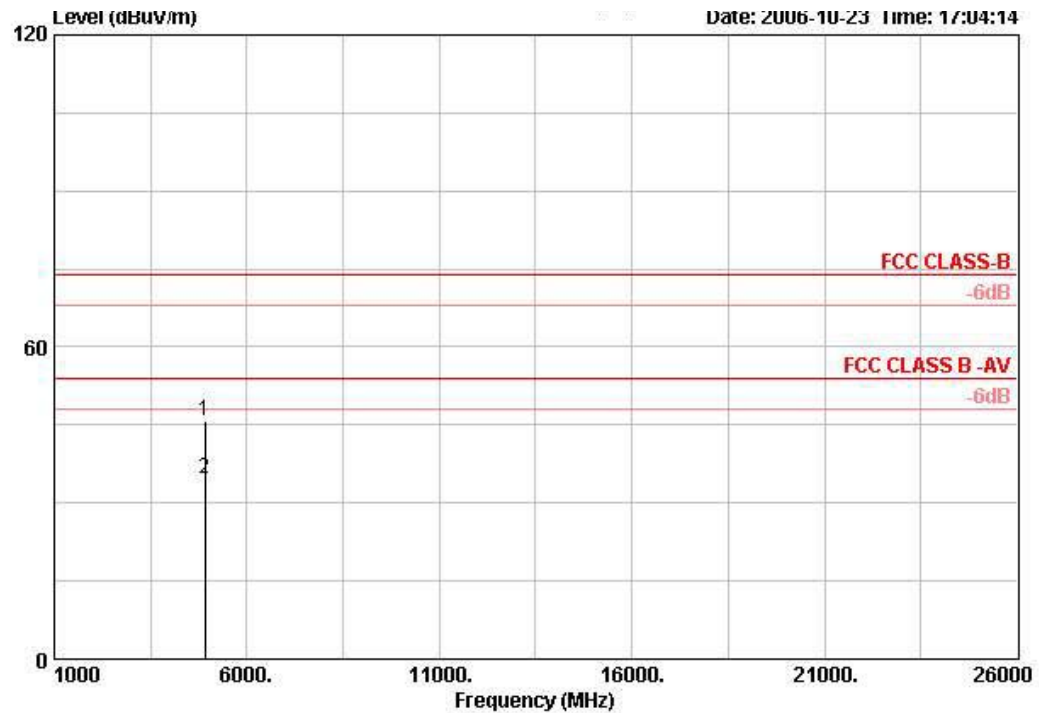
Horizontal



	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	4873.610	44.80	-29.20	74.00	42.49	4.30	35.15	PEAK	100	213	33.16
2	4874.030	33.33	-20.67	54.00	31.02	4.30	35.15	AVERAGE	100	213	33.16

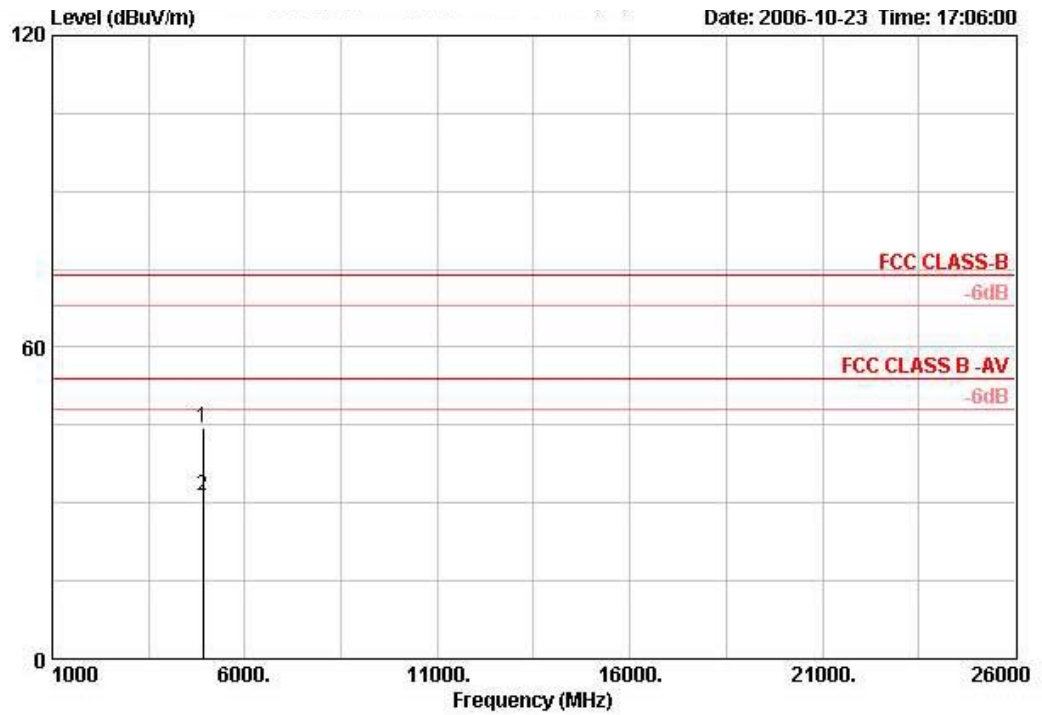
Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11b CH 11

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	4923.800	45.63	-28.37	74.00	43.21	4.30	35.14	PEAK	100	166	33.26
2	4924.080	34.59	-19.41	54.00	32.17	4.30	35.14	AVERAGE	100	166	33.26

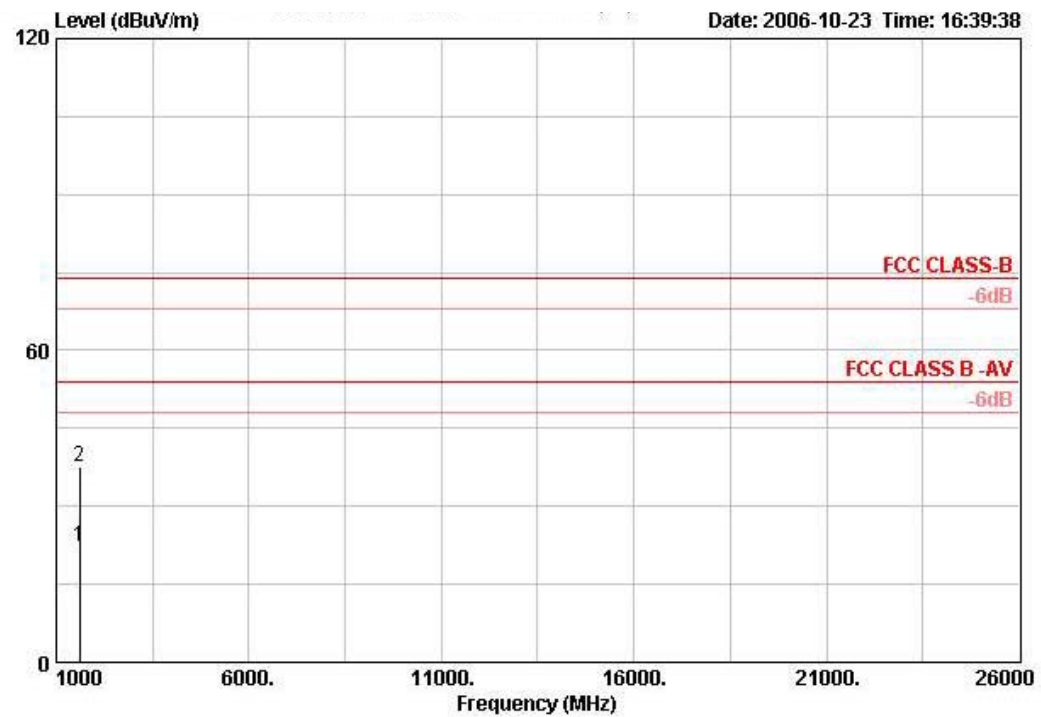
Horizontal



	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	4924.040	44.49	-29.51	74.00	42.07	4.30	35.14	PEAK	100	0	33.26
2	4924.120	31.44	-22.56	54.00	29.02	4.30	35.14	AVERAGE	100	0	33.26

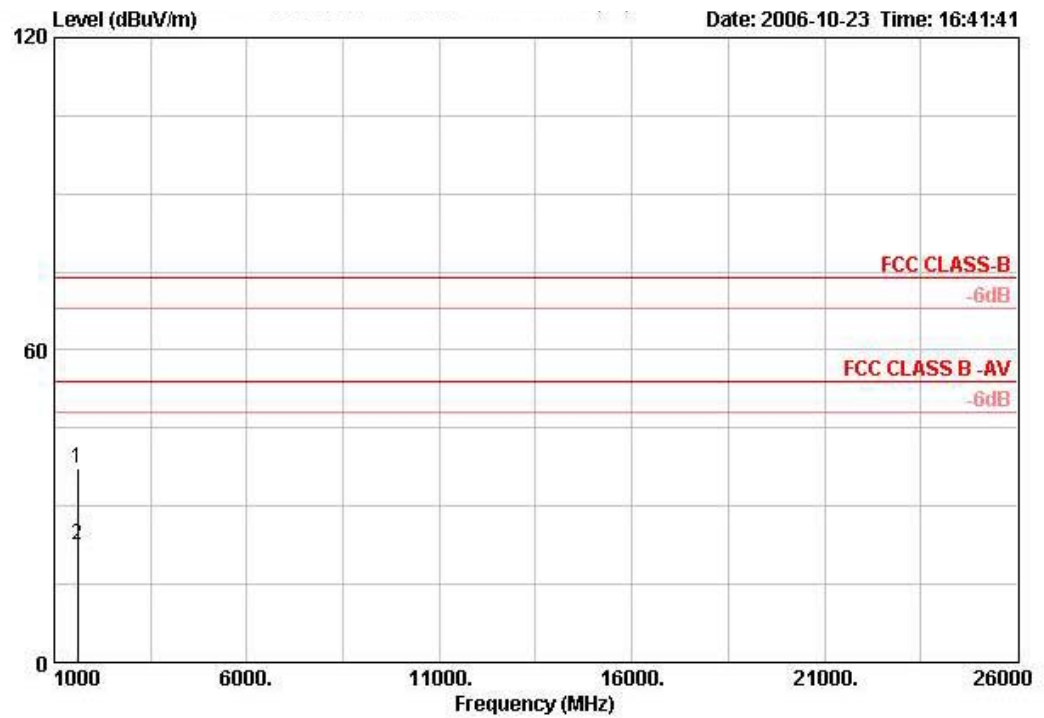
Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11g CH 1

Vertical



	Freq	Level	Over	Limit	Read	Cable	Preamp		Ant	Table	Antenna
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	1608.050	22.20	-31.80	54.00	28.88	2.28	34.72	AVERAGE	100	49	25.77
2	1608.070	37.47	-36.53	74.00	44.14	2.28	34.72	PEAK	100	49	25.77

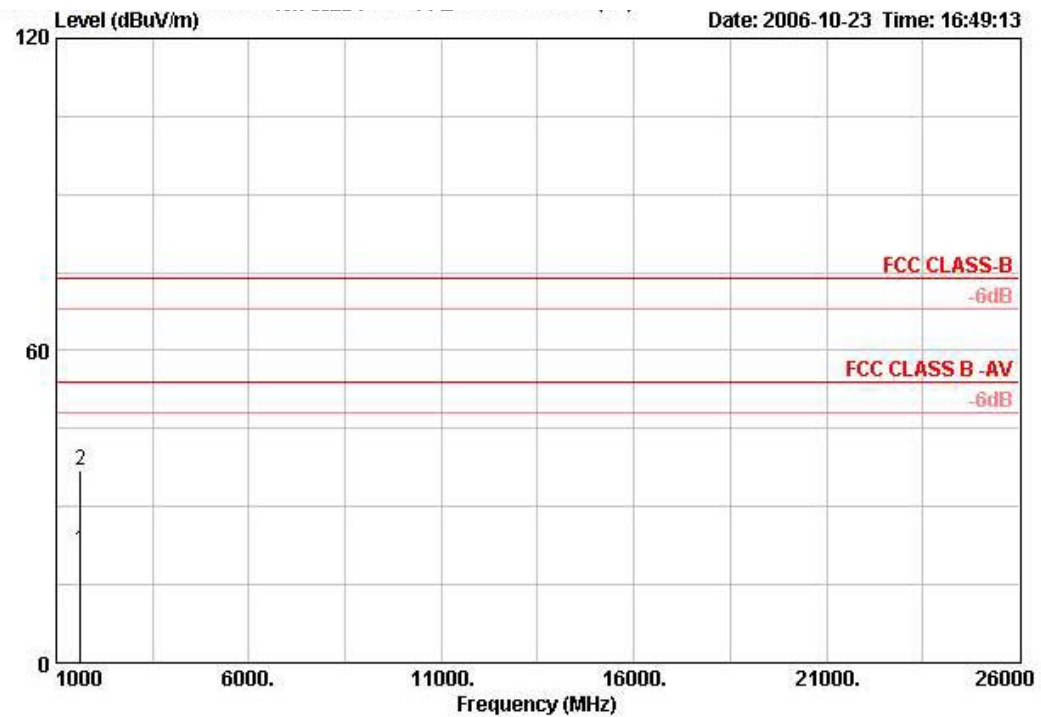
Horizontal



	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	1607.870	37.33	-36.67	74.00	44.00	2.28	34.72	PEAK	100	225	25.77
2	1608.090	22.44	-31.56	54.00	29.11	2.28	34.72	AVERAGE	100	225	25.77

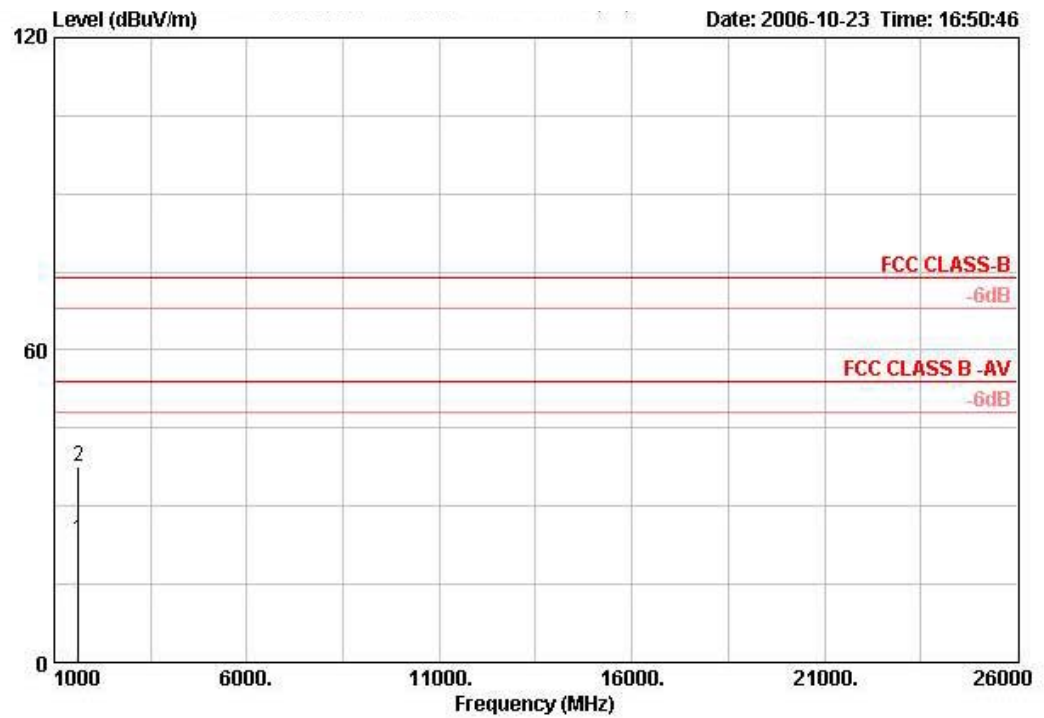
Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11g CH 6

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	1624.620	21.70	-32.30	54.00	28.30	2.28	34.72	AVERAGE	100	116	25.83
2	1624.820	37.00	-37.00	74.00	43.61	2.28	34.73	PEAK	100	116	25.83

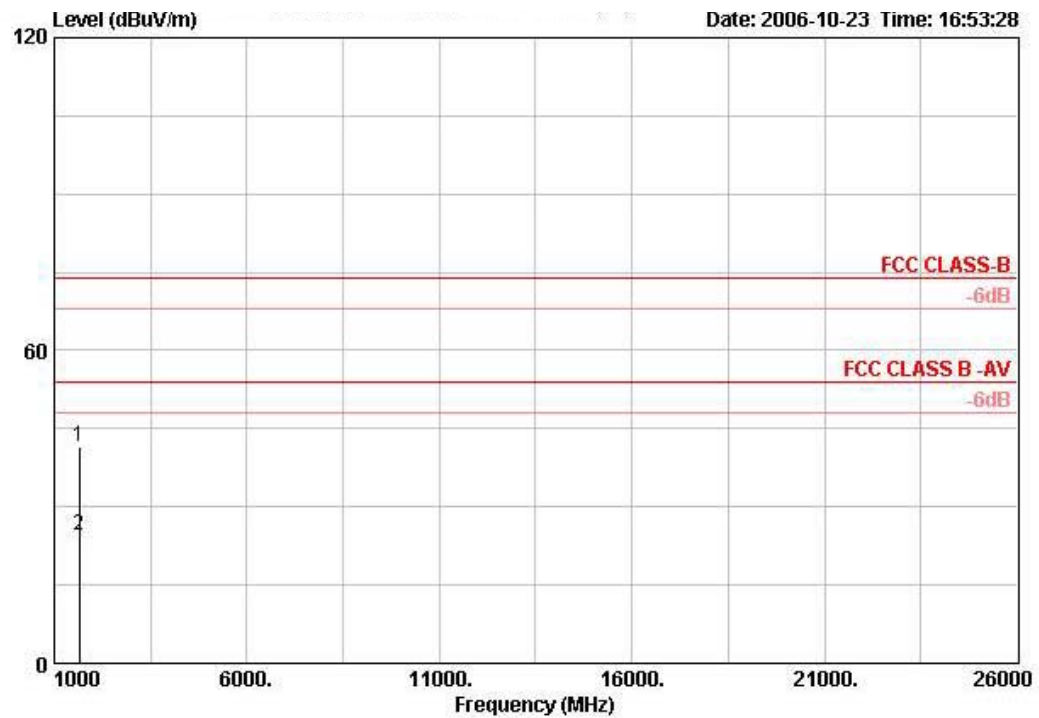
Horizontal



	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	1624.700	23.63	-30.37	54.00	30.24	2.28	34.72	AVERAGE	100	313	25.83
2	1624.890	37.66	-36.34	74.00	44.28	2.28	34.73	PEAK	100	313	25.83

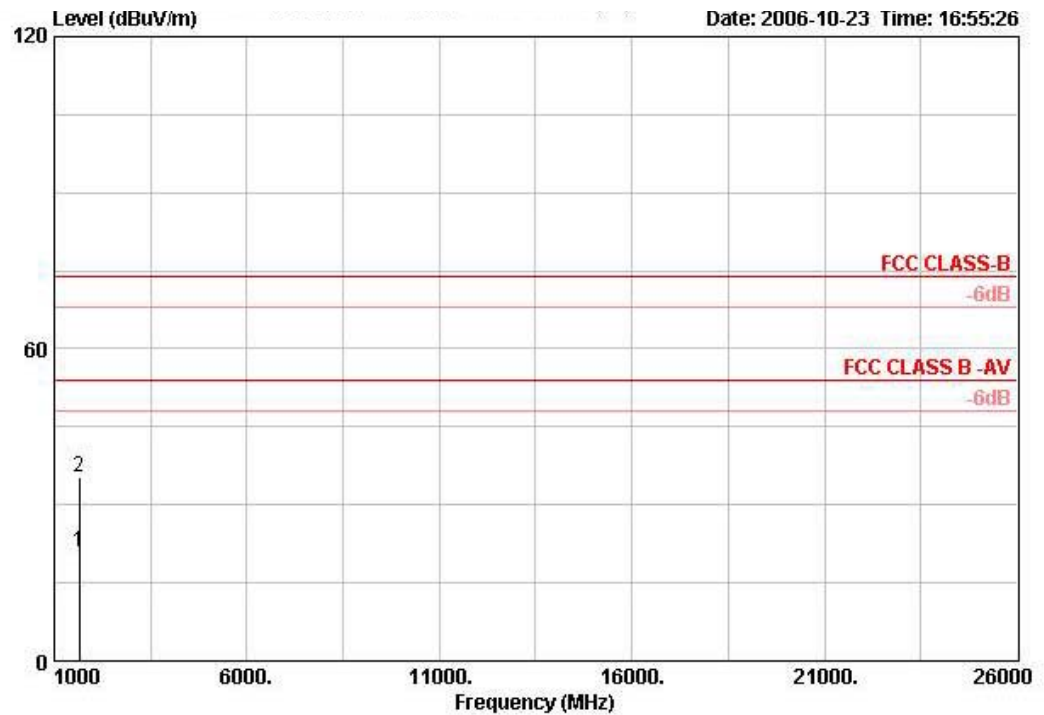
Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11g CH 11

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	1641.330	41.51	-32.49	74.00	48.04	2.30	34.73	PEAK	100	49	25.90
2	1641.450	24.37	-29.63	54.00	30.90	2.30	34.73	AVERAGE	100	49	25.90

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	1641.230	20.82	-33.18	54.00	27.35	2.30	34.73	AVERAGE	100	224	25.90
2	1641.350	35.29	-38.71	74.00	41.82	2.30	34.73	PEAK	100	224	25.90

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 (micorvolts/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 / 1 MHz 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.

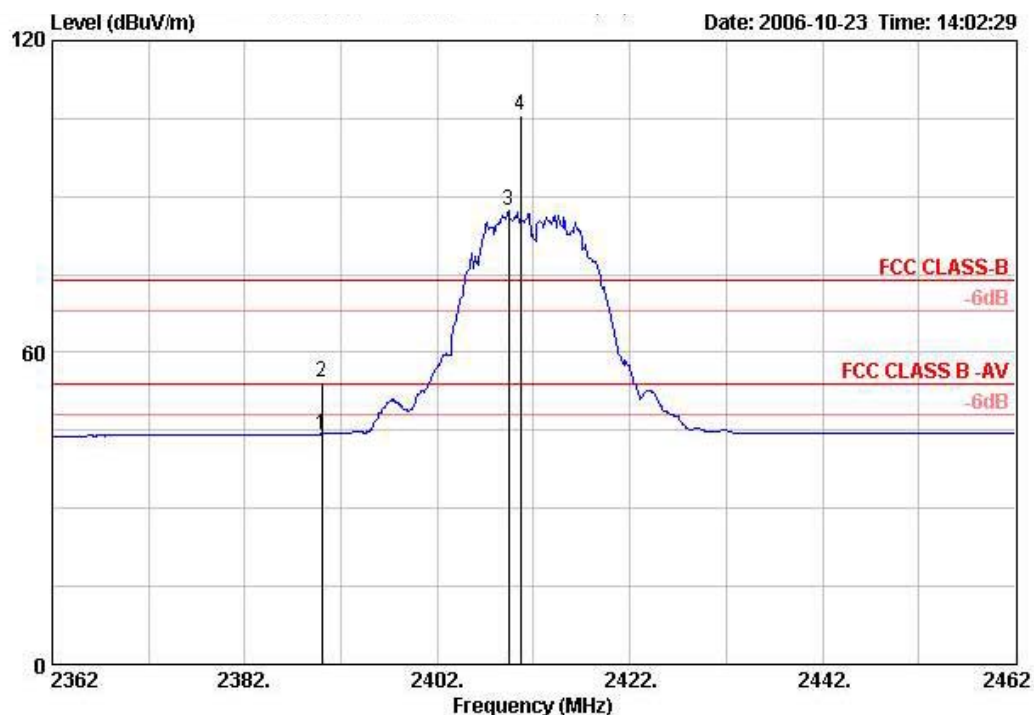
4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11b CH 1, 11

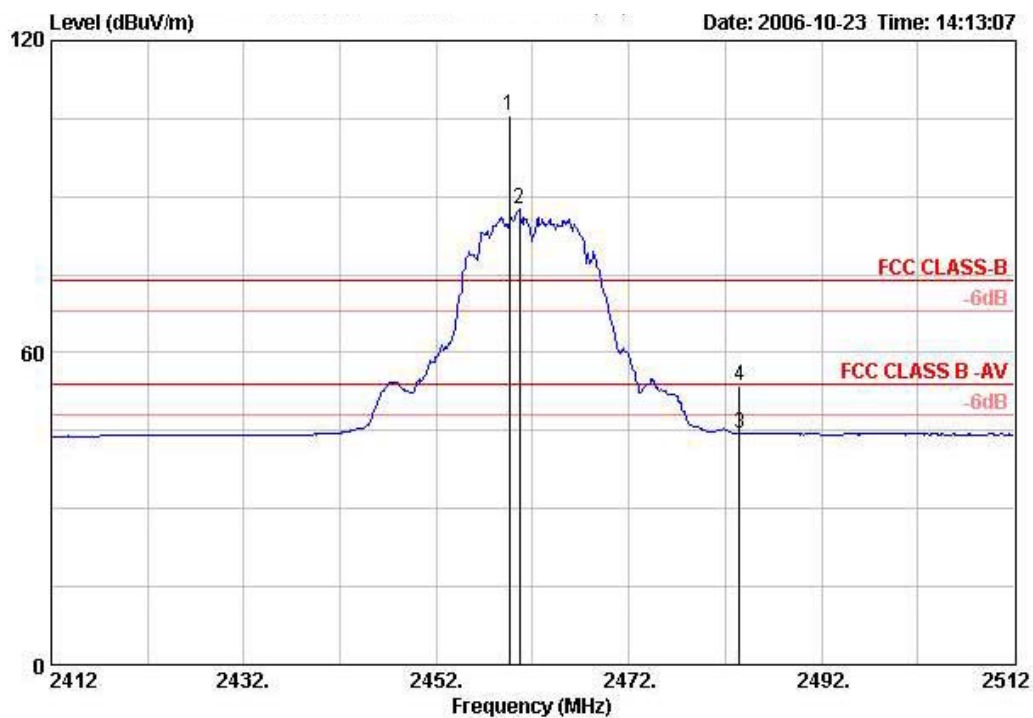
Channel 1



	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	2390.000	44.28	-9.72	54.00	13.35	2.76	0.00	AVERAGE	156	148	28.17
2	2390.000	54.28	-19.72	74.00	23.34	2.76	0.00	PEAK	156	148	28.17
3	2409.400	87.41			56.41	2.79	0.00	Average	156	148	28.21
4	2410.600	105.67			74.67	2.79	0.00	PEAK	156	148	28.21

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

Channel 11

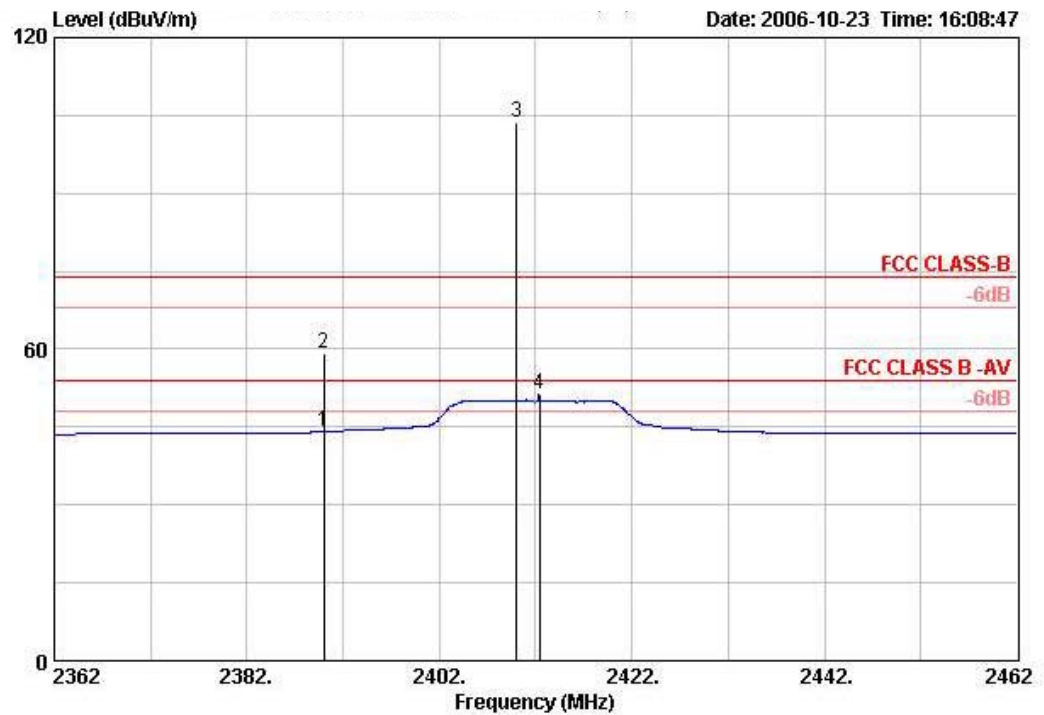


	Freq	Level	Over	Limit	Read	Cable	Preamp		Ant	Table	Antenna
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg	dB/m
1	2459.600	105.67			74.53	2.81	0.00	PEAK	182	333	28.32
2	2460.600	87.61			56.47	2.81	0.00	AVERAGE	182	333	28.32
3	2483.500	44.40	-9.60	54.00	13.19	2.84	0.00	AVERAGE	182	333	28.36
4	2483.500	53.78	-20.22	74.00	22.58	2.84	0.00	PEAK	182	333	28.36

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

Temperature	23°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11g CH 1, 11

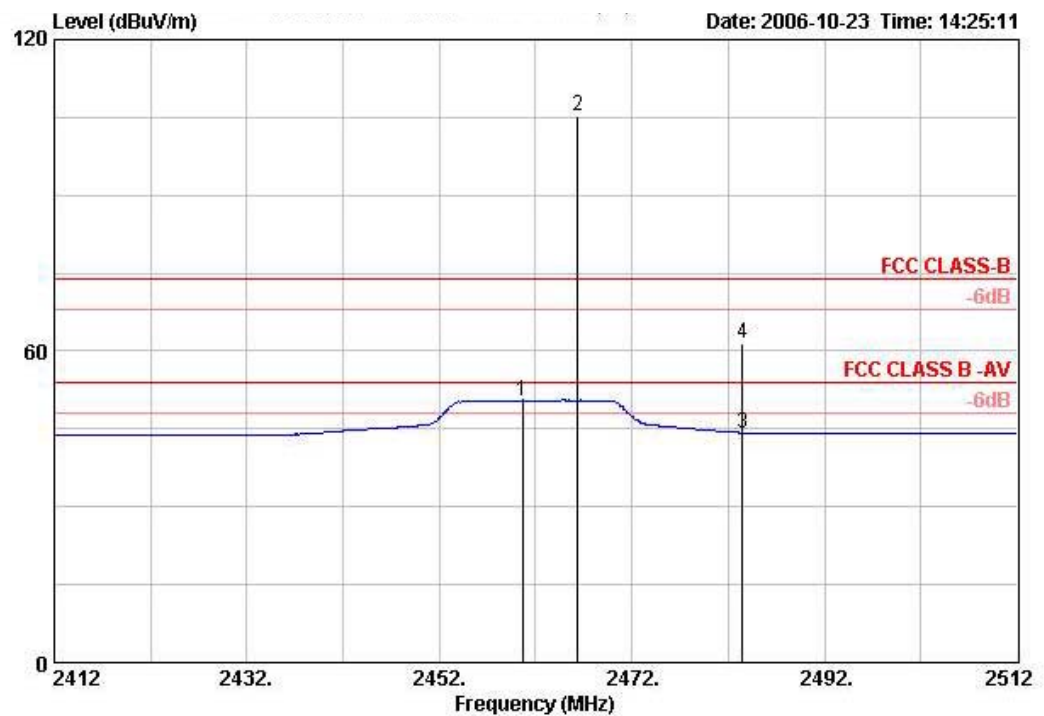
Channel 1



	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	44.04	-9.96	54.00	13.11	2.76	0.00	AVERAGE	163	133	28.17
2	2390.000	59.19	-14.81	74.00	28.25	2.76	0.00	PEAK	163	133	28.17
3 @	2410.000	103.68			72.68	2.79	0.00	PEAK	163	133	28.21
4 @	2412.400	51.27			20.27	2.79	0.00	AVERAGE	163	133	28.21

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

Channel 11



	Freq	Level	Over	Limit	Read	Cable	Preamp		Ant	TableAntenna
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg dB/m
1	2460.600	50.51			19.37	2.81	0.00	AVERAGE	185	332 28.32
2	2466.400	105.45			74.31	2.81	0.00	PEAK	185	332 28.32
3	2483.500	44.24	-9.76	54.00	13.04	2.84	0.00	AVERAGE	185	332 28.36
4	2483.500	61.48	-12.52	74.00	30.27	2.84	0.00	PEAK	185	332 28.36

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

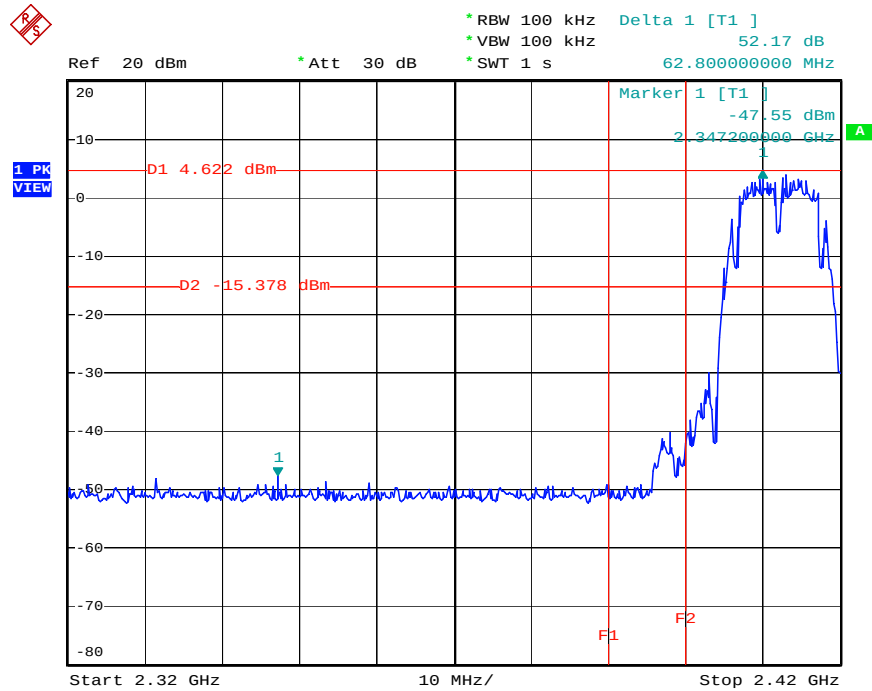
Note:

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

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

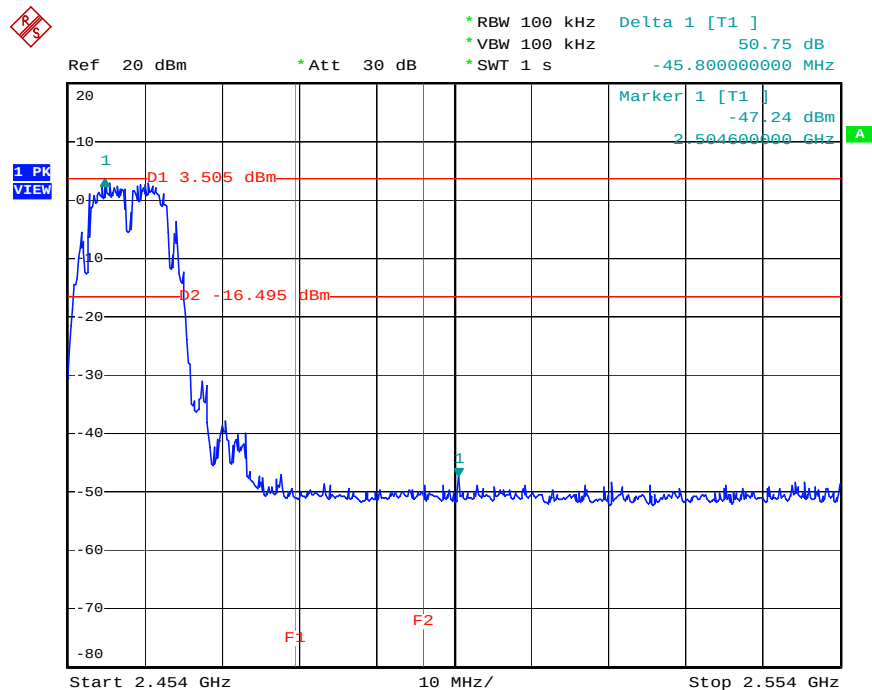
For Emission not in Restricted Band

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



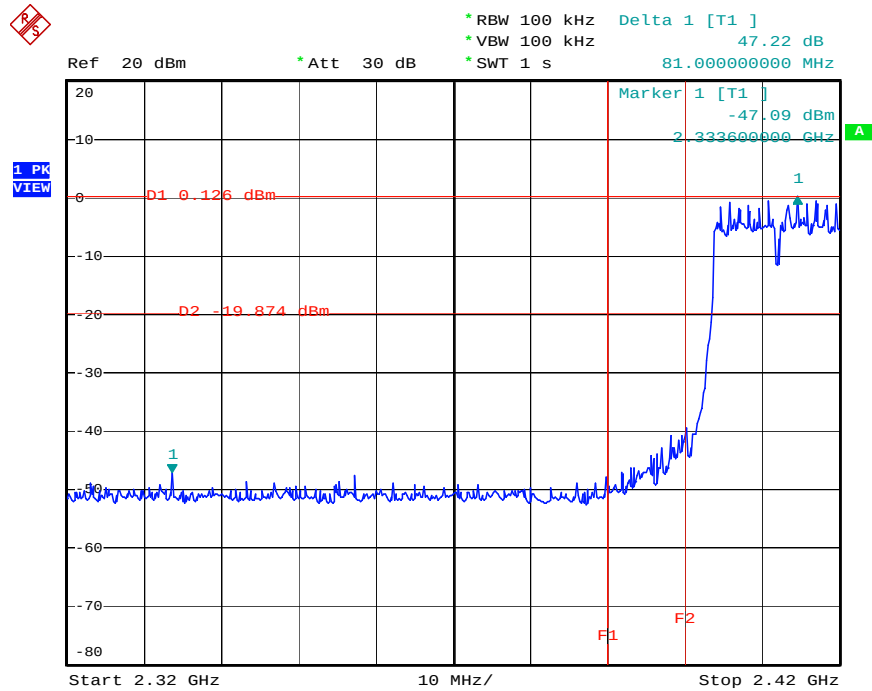
Date: 30.OCT.2006 10:15:18

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



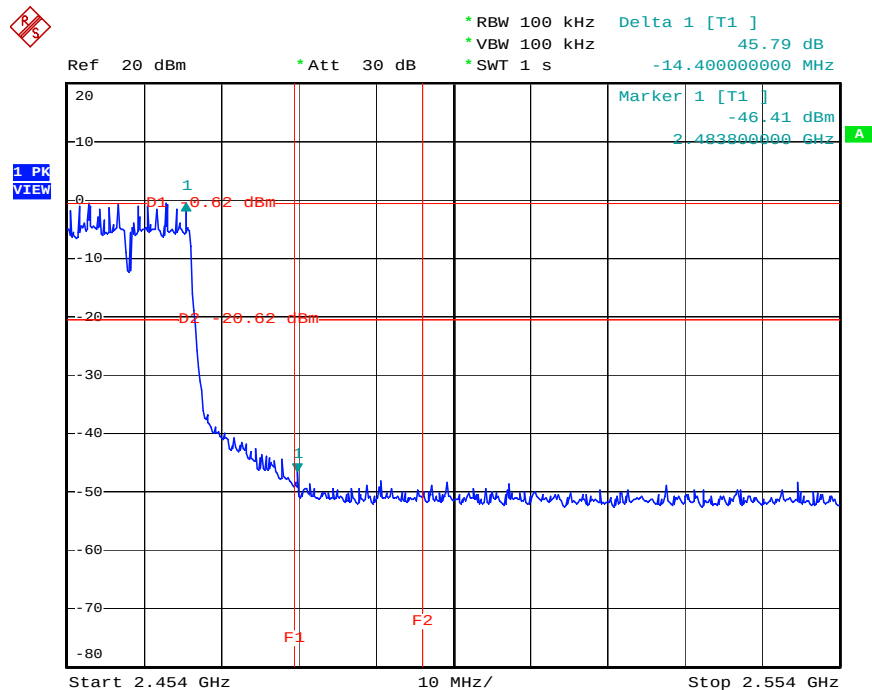
Date: 30.OCT.2006 10:17:12

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



Date: 30.OCT.2006 10:50:25

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



Date: 30.OCT.2006 10:53:40

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, 2005	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, 2005	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 nd 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