



# SPORTON International Inc.

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## FCC RADIO TEST REPORT

Applicant's company	3Com Corporation
Applicant Address	350 Campus Drive, Marlborough , MA 01752-3064.U.S.A.
FCC ID	O9C-WL108
Manufacturer's company	Wistron Neweb Corporation
Manufacturer Address	No. 10-1, Li-Hsin Rd. 1, Science-Based Industrial Park, Hsinchu 300, Taiwan R.O.C

Product Name	3Com 3108 Wireless Phone
Brand Name	3Com
Model Name	WL-108
Test Rule	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz
Receive Date	Jul. 13, 2006
Final Test Date	Aug. 2, 2006
Submission Type	Original Equipment



### Statement

**Test result included is only for the 802.11b/g part of the product.**

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.4-2003** and **47 CFR FCC Part 15 Subpart C**.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.

NVLAQ®

Lab Code: 200079-0

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# 1. CERTIFICATE OF COMPLIANCE

Product Name : 3Com 3108 Wireless Phone  
Brand Name : 3Com  
Model Name : WL-108  
Applicant : 3Com Corporation  
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jul. 13, 2006 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

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Prepared By:

Mandy Liang / Specialist

*Steven Lu 15.8.2006*  
Tested By:

Steven Lu / Engineer

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Reviewed By:

Wayne Hsu

## 2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Rule Section	Description of Test	Result	Under Limit
4.1	15.207	AC Power Line Conducted Emissions	Complies	5.90 dB
4.2	15.247(b)(3)	Maximum Peak Conducted Output Power	Complies	12.28dB
4.3	15.247(e)	Power Spectral Density	Complies	16.24 dB
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.5	15.247(d)	Radiated Emissions	Complies	1.28 dB
4.6	15.247(d)	Band Edge Emissions	Complies	1.20 dB
4.7	15.203	Antenna Requirements	Complies	-

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	$\pm 2.26\text{dB}$	Confidence levels of 95%
Maximum Peak Conducted Output Power	$\pm 0.5\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 0.71\text{dB}$	Confidence levels of 95%
6dB Spectrum Bandwidth	$\pm 6.25 \times 10^{-7}$	Confidence levels of 95%
Radiated Emissions/ Band Edge Emissions	$\pm 3.72\text{dB}$	Confidence levels of 95%

### 3. GENERAL INFORMATION

#### 3.1. Product Details

Items	Description
Power Type	Power Adapter / Battery
Modulation	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11g
Data Modulation	DSSS (BPSK / QPSK / CCK) ; OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11) ; OFDM (6/9/12/18/24/36/48/54)
Frequency Range	2400 ~ 2483.5MHz
Channel Number	11
Channel Band Width (99%)	11b: 12.76 MHz ; 11g: 16.44 MHz
Conducted Output Power	11b: 17.72 dBm ; 11g: 16.98 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

#### 3.2. Accessories

Power	Brand	Model	Rating
Adapter 1	DVE	DSA-10P-05 050050	Input: 100-240VAC Output: 5VDC
Adapter 2	DVE	DSA-5P-05 FUS 050100	Input: 100-240VAC Output: 5VDC
Accessories	Brand	Model	Rating
Desktop Cradle	3Com	3C10408A	Input: 5VDC Output: 5VDC
Battery	Sertek	SKPD-1	3.7VDC

#### 3.3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Wistron	RRP8-N1	External helical Antenna	N/A	3.41

### 3.4. Table for Carrier Frequencies

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400~2483.5MHz	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
	3	2422 MHz	9	2452 MHz
	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz		

### 3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	54 Mbps	6	1
Maximum Peak Conducted Output Power Power Spectral Density 6dB Spectrum Bandwidth	11b/ BPSK	1 Mbps	1/6/11	NA
	11g/BPSK	6 Mbps	1/6/11	NA
Radiated Emissions 9kHz~1GHz	11g/BPSK	6 Mbps	6	1
Radiated Emissions 1GHz~10 <sup>th</sup> Harmonic	11b/ BPSK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
Band Edge Emissions	11b/ BPSK	1 Mbps	1/11	1
	11g/BPSK	6 Mbps	1/11	1

### 3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	101377	IC 4088	-
CO04-HY	Conduction	Hwa Ya	101377	IC 4088	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

Please refer section 6 for Test Site Address.

### 3.7. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Earphone	Cotron	CHM-201STV01007	DoC

### 3.8. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

#### Power Parameters of IEEE 802.11b/g

Test Software Version	V4.1 mode2		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	DEF	DEF	DEF
IEEE 802.11g	DEF	DEF	DEF

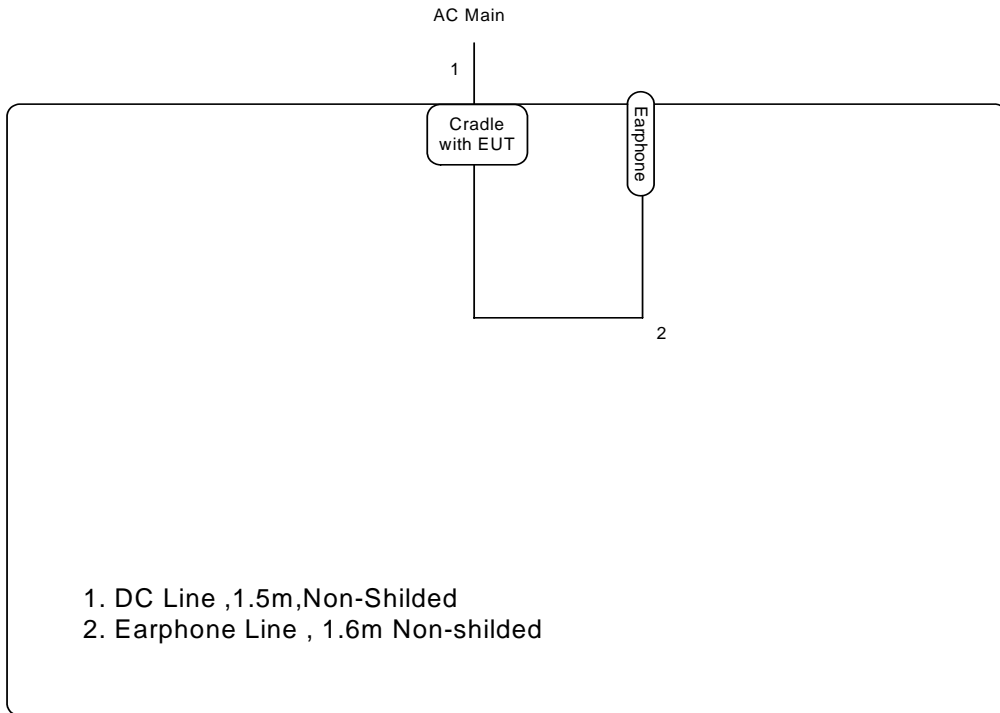


### 3.9. Test Configurations

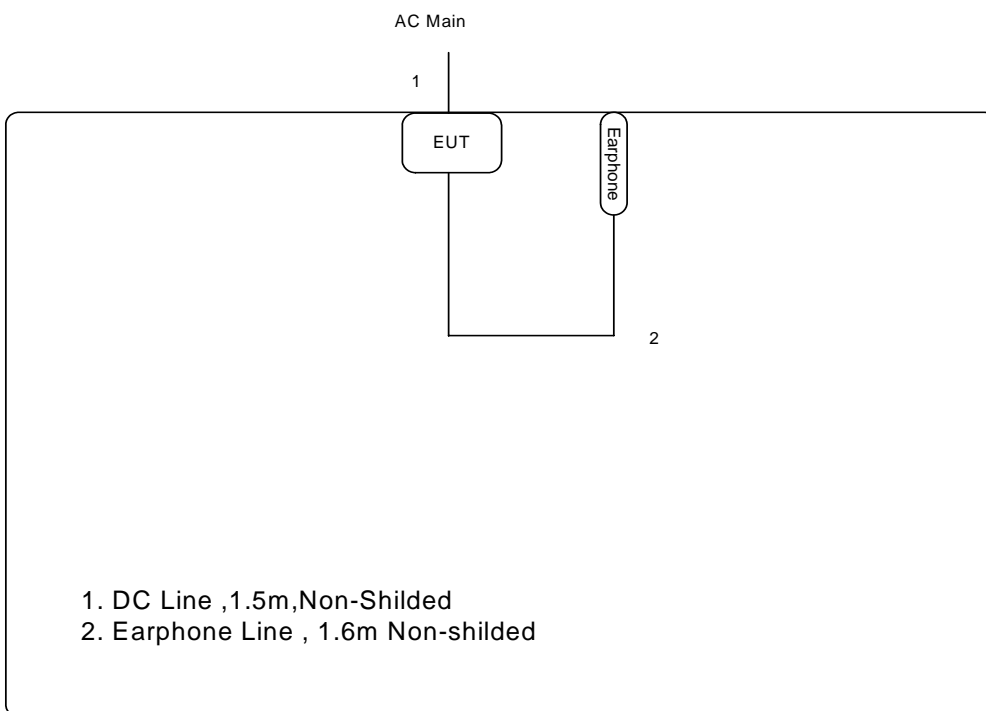
#### 3.9.1. Radiation Emissions Test Configuration

Test Configuration: 9kHz ~ 1GHz

Mode 1: Cradle Mode

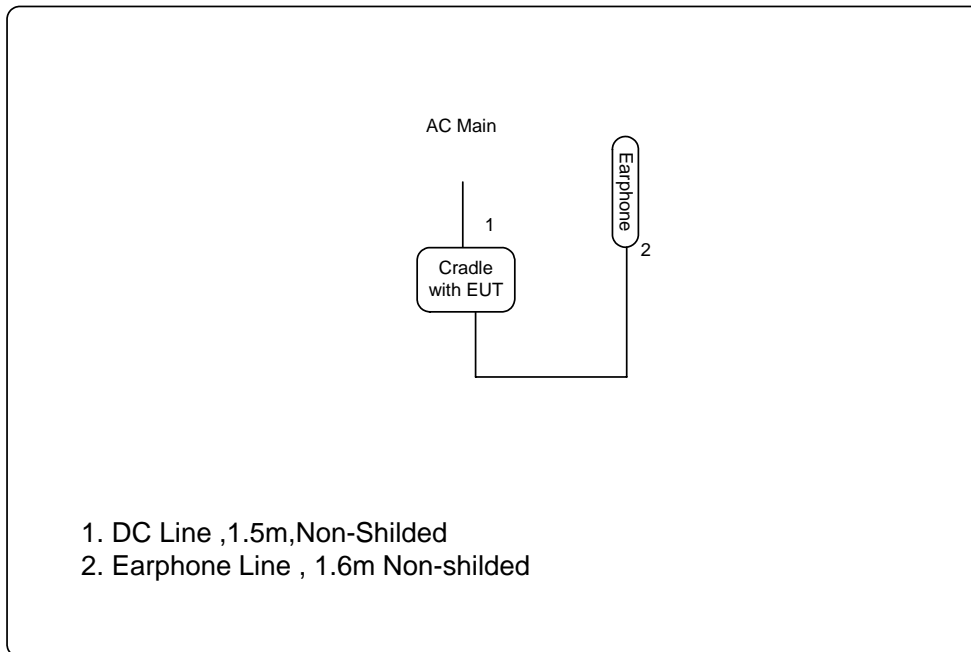


Mode 2: Earphone Mode

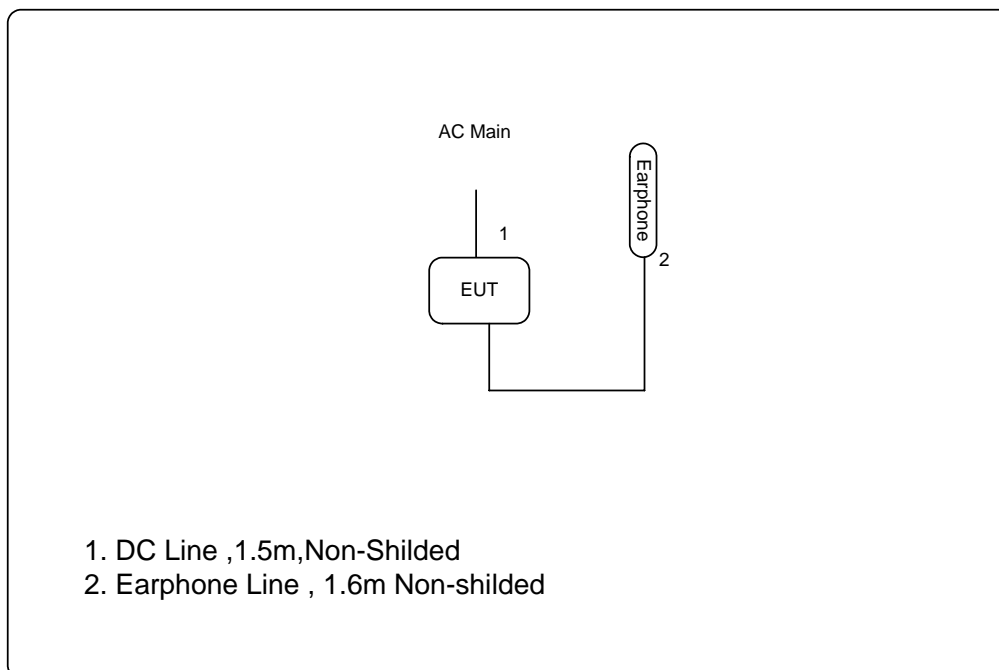


Test Configuration: Above 1GHz

Mode 1: Cradle Mode

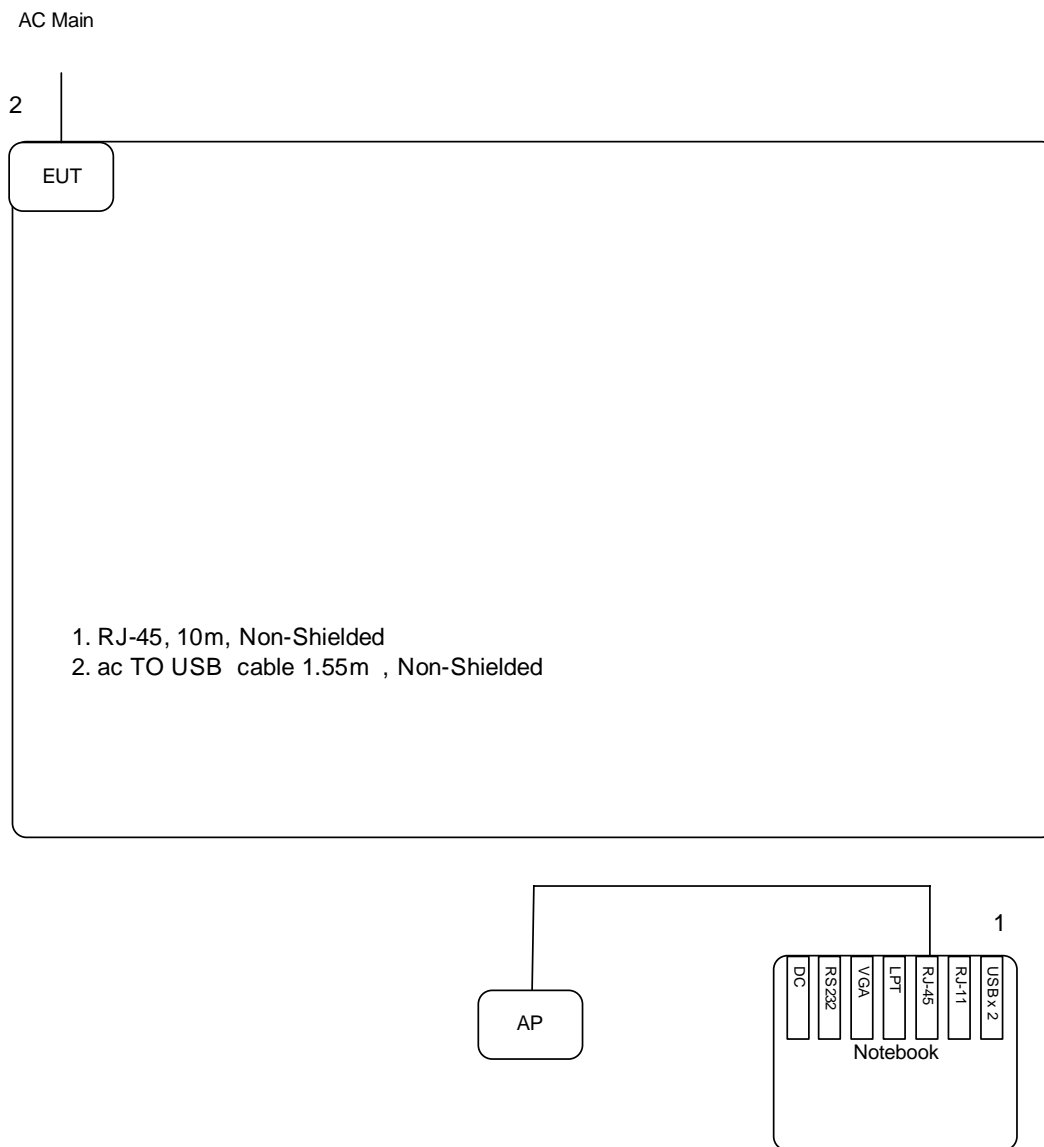


Mode 2: Earphone Mode



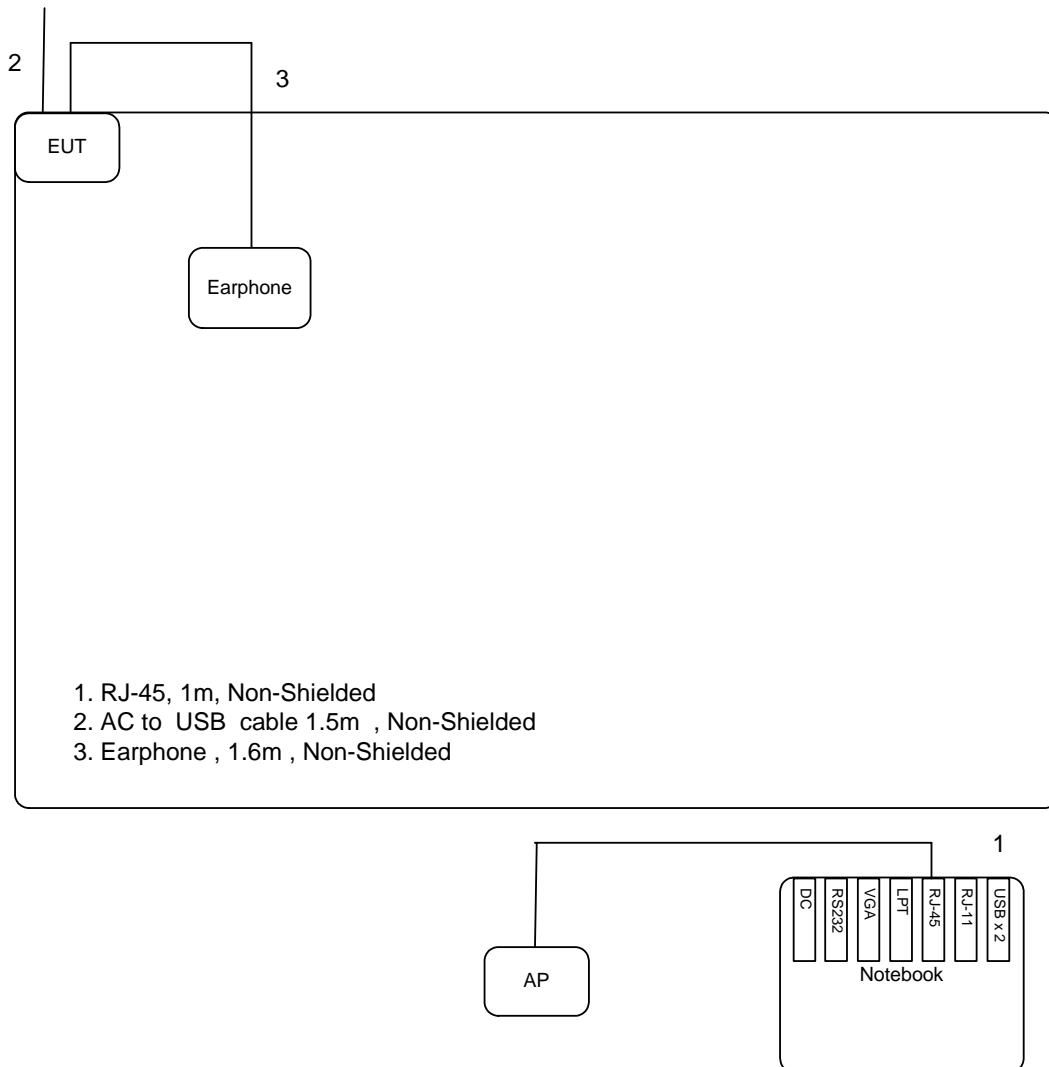
### 3.9.2. AC Power Line Conduction Emissions Test Configuration

#### Mode 1: Cradle Mode



Mode 2: Earphone Mode

AC Main



## 4. TEST RESULT

### 4.1. AC Power Line Conducted Emissions Measurement

#### 4.1.1. Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

#### 4.1.2. Measuring Instruments and Setting

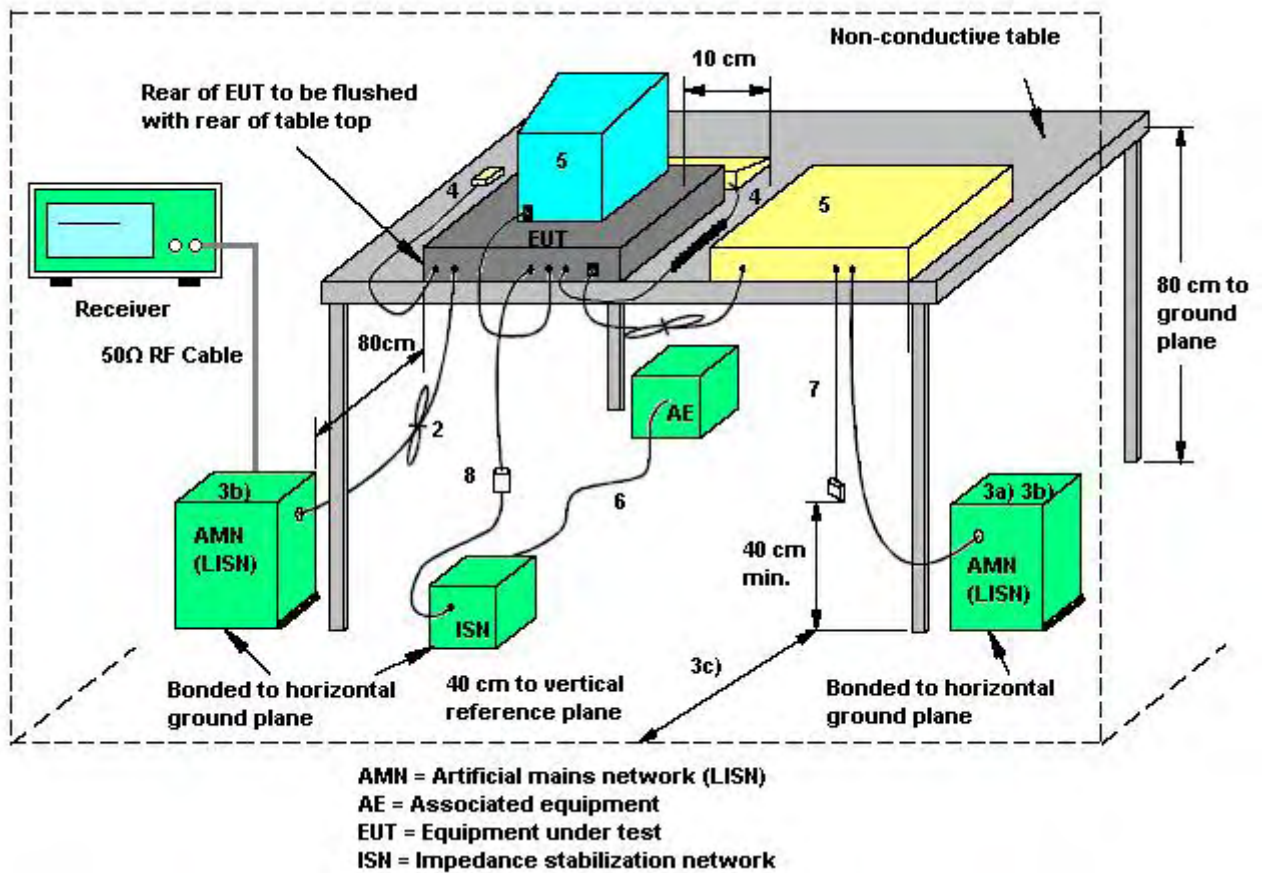
Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

#### 4.1.3. Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 KHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

#### 4.1.4. Test Setup Layout



1. If cables, which hang closer than 40 cm to the horizontal metal groundplane, cannot be shortened to appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
2. Excess mains cord shall be bundled in the centre or shortened to appropriate length.
3. EUT is connected to one artificial mains network (AMN). All AMNs and ISNs may alternatively be connected to a vertical reference plane or metal wall.
4. All other units of a system are powered from a second AMN. A multiple outlet strip can be used for multiple mains cords.
5. AMN and ISN are 80 cm from the EUT and at least 80 cm from other units and other metal planes.
6. Mains cords and signal cables shall be positioned for their entire lengths, as far as possible, at 40 cm from the vertical reference plane.
7. Cables of hand operated devices, such as keyboards, mice, etc. shall be placed as for normal usage.
8. Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if this is an acceptable installation practice, shall be placed directly on the top of the controller.
9. I/O signal cable intended for external connection.
10. The end of the I/O signal cables which are not connected to an AE may be terminated, if required, using correct terminating impedance.
11. If used, the current probe shall be placed at 0,1 m from the ISN.

4.1.5. Test Deviation

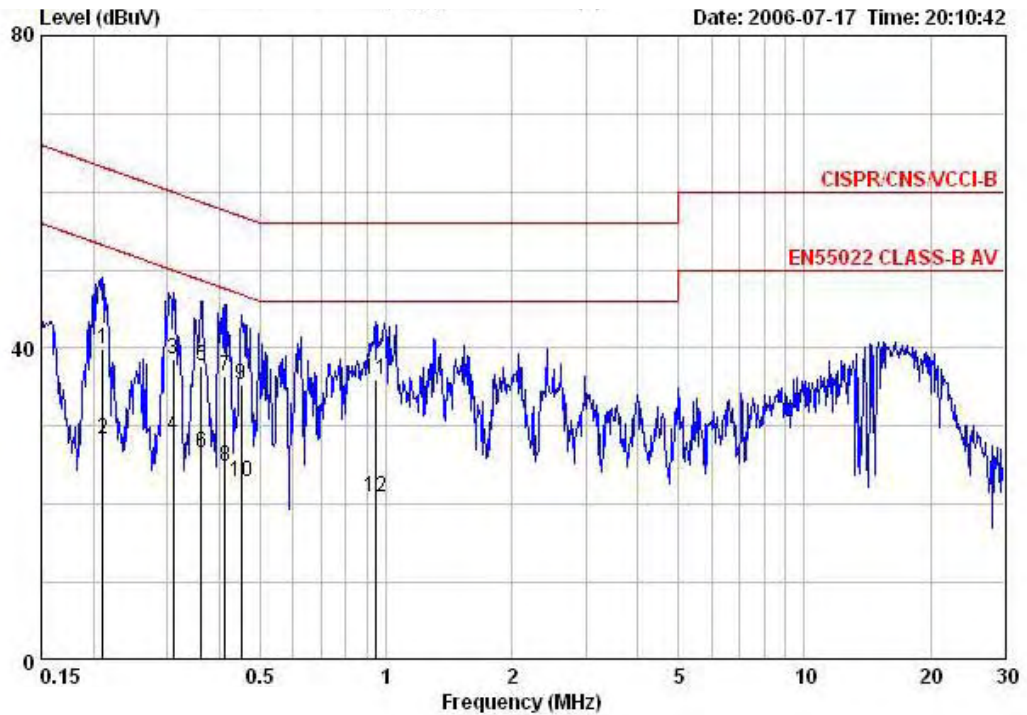
There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

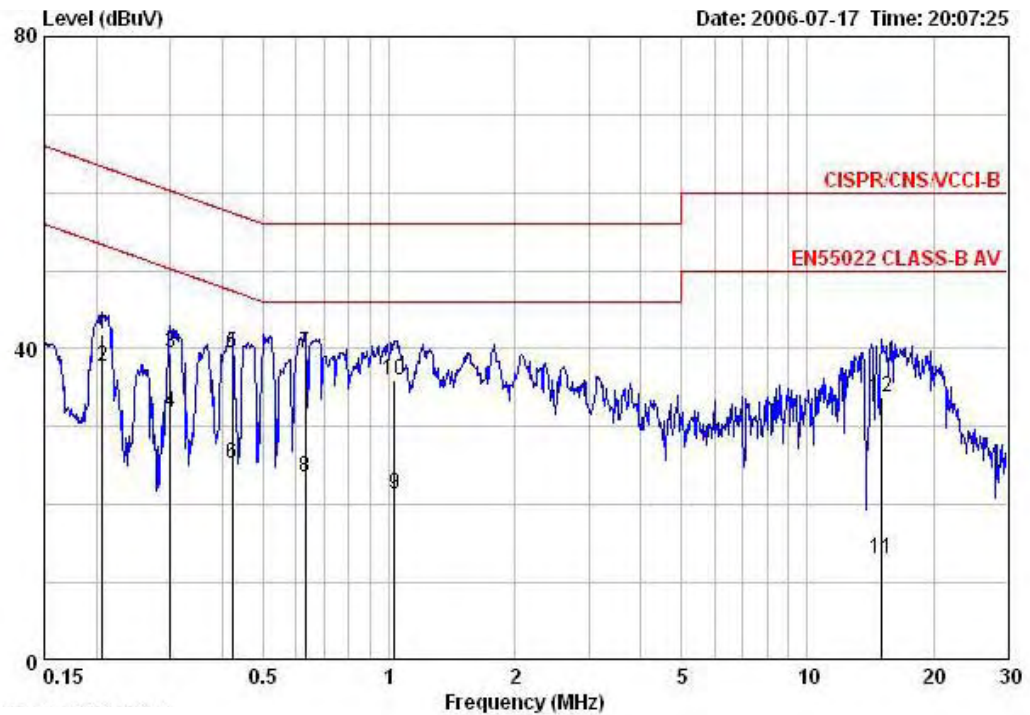
4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	24°C	Humidity	64%
Test Engineer	Jordan Hsiao	Phase	Line
Configuration	Mode 1 with Adapter 1		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.21055	39.94	-23.24	63.18	38.54	1.20	0.20	QP
2	0.21055	28.29	-24.89	53.18	26.89	1.20	0.20	AVERAGE
3	0.30998	38.59	-21.38	59.97	37.69	0.70	0.20	QP
4	0.30998	28.69	-21.28	49.97	27.79	0.70	0.20	AVERAGE
5	0.36146	37.61	-21.08	58.69	36.73	0.68	0.20	QP
6	0.36146	26.64	-22.05	48.69	25.76	0.68	0.20	AVERAGE
7	0.41266	36.31	-21.28	57.59	35.61	0.50	0.20	QP
8	0.41266	24.88	-22.71	47.59	24.18	0.50	0.20	AVERAGE
9	0.45155	35.25	-21.60	56.85	34.55	0.50	0.20	QP
10	0.45155	22.90	-23.95	46.85	22.20	0.50	0.20	AVERAGE
11	0.94809	36.02	-19.98	56.00	35.52	0.30	0.20	QP
12	0.94809	20.94	-25.06	46.00	20.44	0.30	0.20	AVERAGE

Temperature	24°C	Humidity	64%
Test Engineer	Jordan Hsiao	Phase	Neutral
Configuration	Mode 1 with Adapter 1		



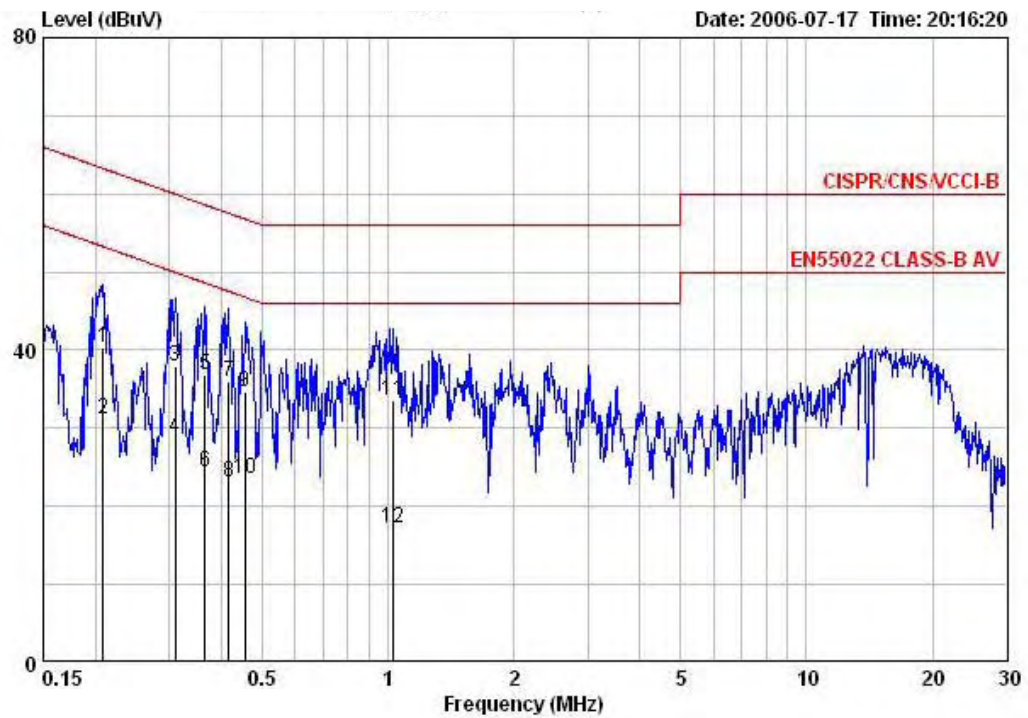
	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.20614	41.95	-21.41	63.36	40.61	1.14	0.20	QP
2	0.20614	37.80	-15.56	53.36	36.46	1.14	0.20	AVERAGE
3	0.30028	39.47	-20.77	60.24	38.67	0.60	0.20	QP
4	0.30028	31.76	-18.48	50.24	30.96	0.60	0.20	AVERAGE
5	0.42150	39.47	-17.95	57.42	38.87	0.40	0.20	QP
6	0.42150	25.39	-22.03	47.42	24.79	0.40	0.20	AVERAGE
7	0.63048	39.45	-16.55	56.00	38.95	0.30	0.20	QP
8	0.63048	23.48	-22.52	46.00	22.98	0.30	0.20	AVERAGE
9	1.032	21.37	-24.63	46.00	20.88	0.30	0.19	AVERAGE
10	1.032	35.93	-20.07	56.00	35.44	0.30	0.19	QP
11	15.066	13.13	-36.87	50.00	12.43	0.30	0.40	AVERAGE
12	15.066	33.82	-26.18	60.00	33.12	0.30	0.40	QP

Note:

Level = Read Level + LISN Factor + Cable Loss.

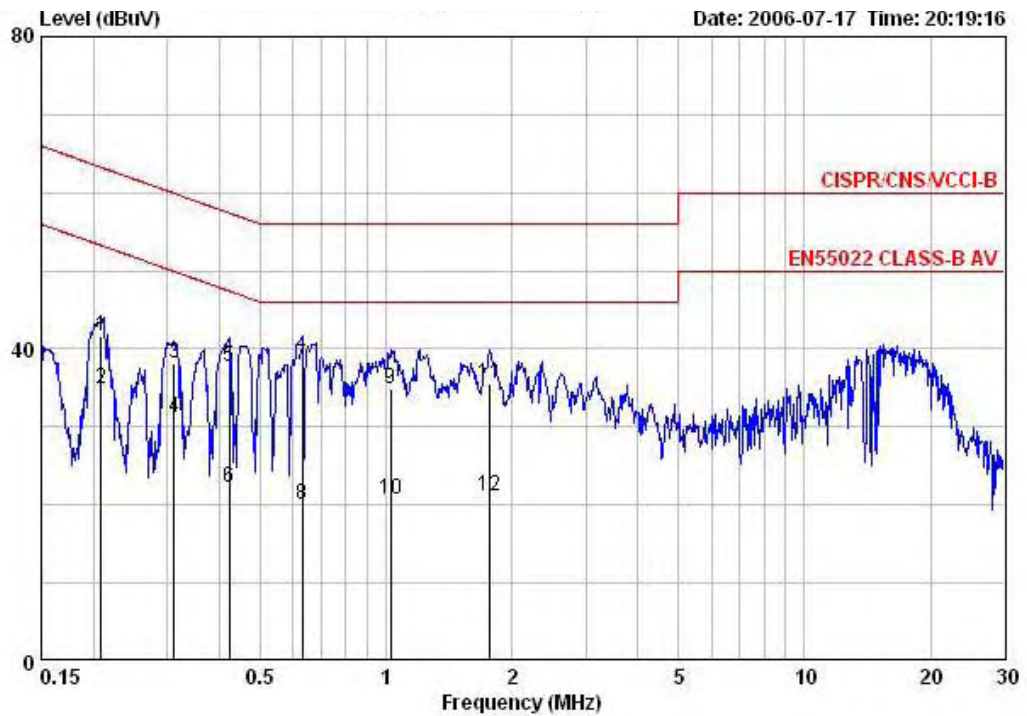


Temperature	24°C	Humidity	64%
Test Engineer	Jordan Hsiao	Phase	Line
Configuration	Mode 2 with Adapter 1		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.20833	40.30	-22.97	63.27	38.88	1.22	0.20	QP
2	0.20833	31.15	-22.12	53.27	29.73	1.22	0.20	AVERAGE
3	0.30998	37.84	-22.13	59.97	36.94	0.70	0.20	QP
4	0.30998	28.69	-21.28	49.97	27.79	0.70	0.20	AVERAGE
5	0.36531	36.77	-21.84	58.61	35.93	0.64	0.20	QP
6	0.36531	24.44	-24.17	48.61	23.60	0.64	0.20	AVERAGE
7	0.41705	35.97	-21.54	57.51	35.27	0.50	0.20	QP
8	0.41705	23.14	-24.37	47.51	22.44	0.50	0.20	AVERAGE
9	0.45395	34.76	-22.04	56.80	34.06	0.50	0.20	QP
10	0.45395	23.51	-23.29	46.80	22.81	0.50	0.20	AVERAGE
11	1.027	33.65	-22.35	56.00	33.16	0.30	0.19	QP
12	1.027	17.19	-28.81	46.00	16.70	0.30	0.19	AVERAGE

Temperature	24°C	Humidity	64%
Test Engineer	Jordan Hsiao	Phase	Neutral
Configuration	Mode 2 with Adapter 1		

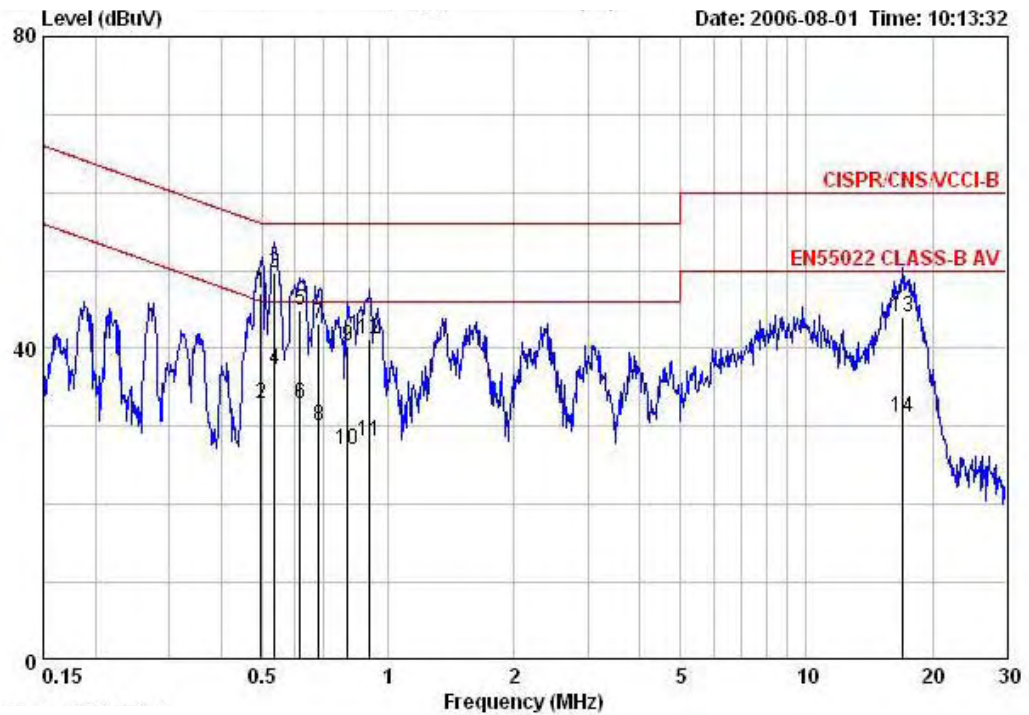


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.20829	41.57	-21.70	63.27	40.25	1.12	0.20	QP
2	0.20829	34.93	-18.34	53.27	33.61	1.12	0.20	AVERAGE
3	0.31163	38.19	-21.74	59.93	37.37	0.62	0.20	QP
4	0.31163	31.09	-18.84	49.93	30.27	0.62	0.20	AVERAGE
5	0.42150	37.62	-19.80	57.42	37.02	0.40	0.20	QP
6	0.42150	22.13	-25.29	47.42	21.53	0.40	0.20	AVERAGE
7 @	0.63048	37.99	-18.01	56.00	37.49	0.30	0.20	QP
8	0.63048	19.95	-26.05	46.00	19.45	0.30	0.20	AVERAGE
9	1.027	34.83	-21.17	56.00	34.34	0.30	0.19	QP
10	1.027	20.61	-25.39	46.00	20.12	0.30	0.19	AVERAGE
11	1.772	35.45	-20.55	56.00	35.05	0.24	0.16	QP
12	1.772	21.14	-24.86	46.00	20.74	0.24	0.16	AVERAGE

Note:

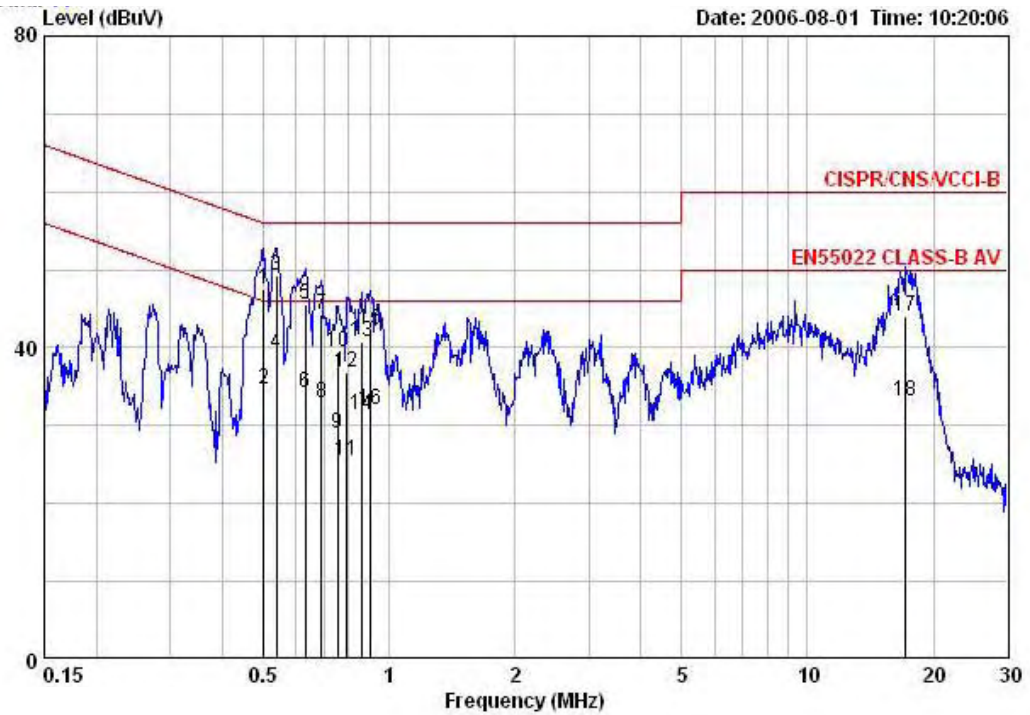
Level = Read Level + LISN Factor + Cable Loss.

Temperature	24°C	Humidity	64%
Test Engineer	Jordan Hsiao	Phase	Line
Configuration	Mode 1 with Adapter 2		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.49825	47.12	-8.91	56.03	46.52	0.40	0.20	QP
2	0.49825	32.98	-13.05	46.03	32.38	0.40	0.20	AVERAGE
3	0.53615	49.61	-6.39	56.00	49.01	0.40	0.20	QP
4	0.53615	37.24	-8.76	46.00	36.64	0.40	0.20	AVERAGE
5	0.61726	44.80	-11.20	56.00	44.20	0.40	0.20	QP
6	0.61726	32.84	-13.16	46.00	32.24	0.40	0.20	AVERAGE
7	0.68362	43.07	-12.93	56.00	42.47	0.40	0.20	QP
8	0.68362	30.05	-15.95	46.00	29.45	0.40	0.20	AVERAGE
9	0.80023	40.41	-15.59	56.00	39.91	0.30	0.20	QP
10	0.80023	26.98	-19.02	46.00	26.48	0.30	0.20	AVERAGE
11	0.90494	28.05	-17.95	46.00	27.55	0.30	0.20	AVERAGE
12	0.90494	41.25	-14.75	56.00	40.75	0.30	0.20	QP
13	17.034	43.99	-16.01	60.00	43.19	0.30	0.50	QP
14	17.034	31.12	-18.88	50.00	30.32	0.30	0.50	AVERAGE

Temperature	24°C	Humidity	64%
Test Engineer	Jordan Hsiao	Phase	Neutral
Configuration	Mode 1 with Adapter 2		



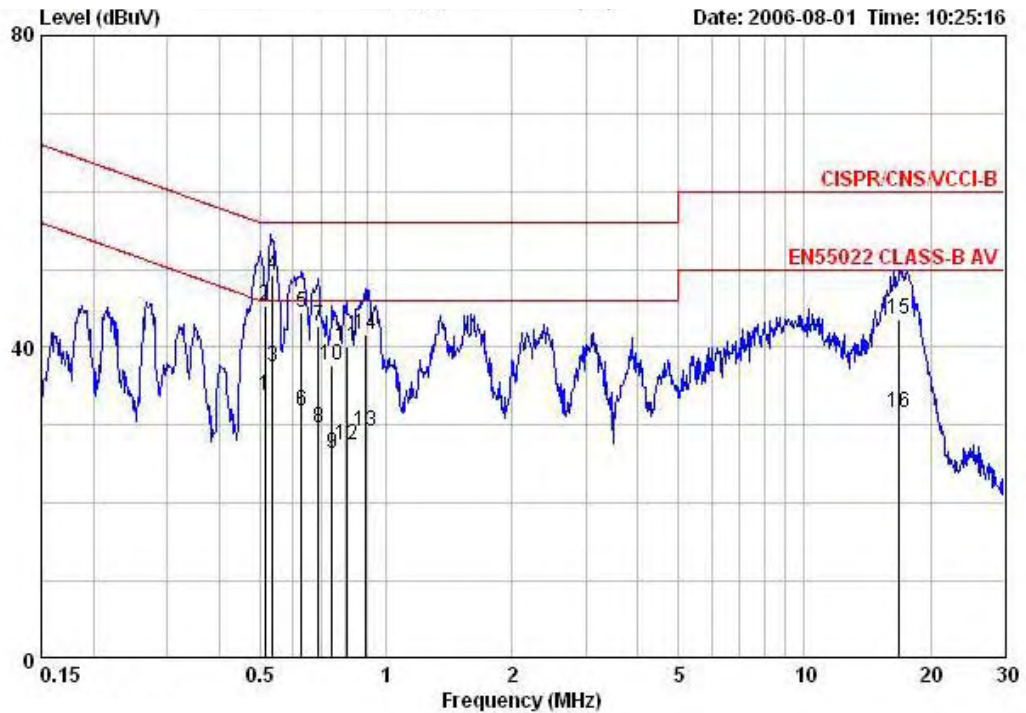
	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.50203	47.49	-8.51	56.00	46.99	0.30	0.20	QP
2	0.50203	34.63	-11.37	46.00	34.13	0.30	0.20	AVERAGE
3	0.53782	49.25	-6.75	56.00	48.75	0.30	0.20	QP
4	0.53782	39.34	-6.66	46.00	38.84	0.30	0.20	AVERAGE
5	0.63048	45.66	-10.34	56.00	45.16	0.30	0.20	QP
6	0.63048	34.29	-11.71	46.00	33.79	0.30	0.20	AVERAGE
7	0.68990	44.33	-11.67	56.00	43.83	0.30	0.20	QP
8	0.68990	32.87	-13.13	46.00	32.37	0.30	0.20	AVERAGE
9	0.75493	29.10	-16.90	46.00	28.60	0.30	0.20	AVERAGE
10	0.75493	39.49	-16.51	56.00	38.99	0.30	0.20	QP
11	0.79180	25.44	-20.56	46.00	24.94	0.30	0.20	AVERAGE
12	0.79180	36.85	-19.15	56.00	36.35	0.30	0.20	QP
13	0.85730	40.74	-15.26	56.00	40.24	0.30	0.20	QP
14	0.85730	31.40	-14.60	46.00	30.90	0.30	0.20	AVERAGE
15	0.89917	42.21	-13.79	56.00	41.71	0.30	0.20	QP
16	0.89917	32.09	-13.91	46.00	31.59	0.30	0.20	AVERAGE
17	17.199	44.11	-15.89	60.00	43.31	0.30	0.50	QP
18	17.199	33.12	-16.88	50.00	32.32	0.30	0.50	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss.

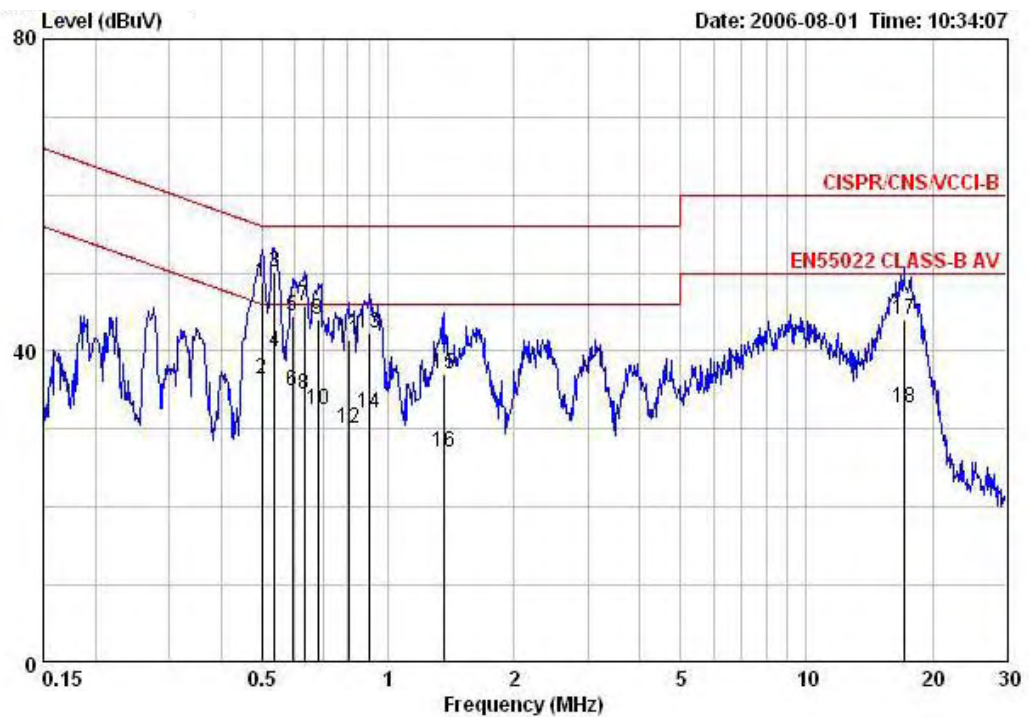


Temperature	24°C	Humidity	64%
Test Engineer	Jordan Hsiao	Phase	Line
Configuration	Mode 2 with Adapter 2		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.51453	33.84	-12.16	46.00	33.24	0.40	0.20	AVERAGE
2	0.51453	45.28	-10.72	56.00	44.68	0.40	0.20	QP
3	0.53615	37.56	-8.44	46.00	36.96	0.40	0.20	AVERAGE
4	0.53615	49.21	-6.79	56.00	48.61	0.40	0.20	QP
5	0.62715	44.57	-11.43	56.00	43.97	0.40	0.20	QP
6	0.62715	31.91	-14.09	46.00	31.31	0.40	0.20	AVERAGE
7	0.68990	42.77	-13.23	56.00	42.17	0.40	0.20	QP
8	0.68990	29.73	-16.27	46.00	29.13	0.40	0.20	AVERAGE
9	0.74302	26.40	-19.60	46.00	25.83	0.37	0.20	AVERAGE
10	0.74302	37.73	-18.27	56.00	37.16	0.37	0.20	QP
11	0.80449	40.13	-15.87	56.00	39.63	0.30	0.20	QP
12	0.80449	27.41	-18.59	46.00	26.91	0.30	0.20	AVERAGE
13	0.89441	29.14	-16.86	46.00	28.64	0.30	0.20	AVERAGE
14	0.89441	41.55	-14.45	56.00	41.05	0.30	0.20	QP
15	16.839	43.57	-16.43	60.00	42.80	0.30	0.47	QP
16	16.839	31.57	-18.43	50.00	30.80	0.30	0.47	AVERAGE

Temperature	24°C	Humidity	64%
Test Engineer	Jordan Hsiao	Phase	Neutral
Configuration	Mode 2 with Adapter 2		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.49937	48.87	-7.14	56.01	48.37	0.30	0.20	QP
2	0.49937	36.31	-9.70	46.01	35.81	0.30	0.20	AVERAGE
3	0.53498	50.10	-5.90	56.00	49.60	0.30	0.20	QP
4	0.53498	39.92	-6.08	46.00	39.42	0.30	0.20	AVERAGE
5	0.59164	44.42	-11.58	56.00	43.92	0.30	0.20	QP
6	0.59164	34.86	-11.14	46.00	34.36	0.30	0.20	AVERAGE
7	0.63048	45.84	-10.16	56.00	45.34	0.30	0.20	QP
8	0.63048	34.47	-11.53	46.00	33.97	0.30	0.20	AVERAGE
9	0.67902	43.93	-12.07	56.00	43.43	0.30	0.20	QP
10	0.67902	32.42	-13.58	46.00	31.92	0.30	0.20	AVERAGE
11	0.80449	41.44	-14.56	56.00	40.94	0.30	0.20	QP
12	0.80449	30.01	-15.99	46.00	29.51	0.30	0.20	AVERAGE
13	0.90394	42.31	-13.69	56.00	41.81	0.30	0.20	QP
14	0.90394	31.97	-14.03	46.00	31.47	0.30	0.20	AVERAGE
15	1.359	37.06	-18.94	56.00	36.64	0.30	0.12	QP
16	1.359	26.97	-19.03	46.00	26.55	0.30	0.12	AVERAGE
17	17.109	43.98	-16.02	60.00	43.18	0.30	0.50	QP
18	17.109	32.77	-17.23	50.00	31.97	0.30	0.50	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss.

## 4.2. Maximum Peak Output Power Measurement

### 4.2.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

### 4.2.2. Measuring Instruments and Setting

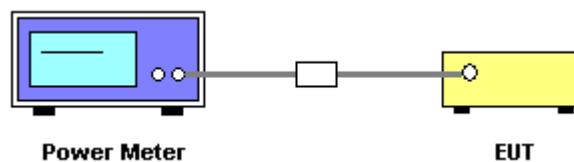
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Filter No.	Auto
Measurement time	0.135 s ~ 26 s
Used Peak Sensor	NRV-Z32 (model 04)

### 4.2.3. Test Procedures

1. The transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the peak power value.
3. Repeat above procedures on all channels needed to be tested.

### 4.2.4. Test Setup Layout



### 4.2.5. Test Deviation

There is no deviation with the original standard.

### 4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.7. Test Result of Maximum Peak Output Power

<b>Temperature</b>	24°C	<b>Humidity</b>	64%
<b>Test Engineer</b>	Leo Hung	<b>Configurations</b>	802.11b/g

##### Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.44	30.00	Complies
6	2437 MHz	17.50	30.00	Complies
11	2462 MHz	17.72	30.00	Complies

##### Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.42	30.00	Complies
6	2437 MHz	16.03	30.00	Complies
11	2462 MHz	16.98	30.00	Complies



### 4.3. Power Spectral Density Measurement

#### 4.3.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 4.3.2. Measuring Instruments and Setting

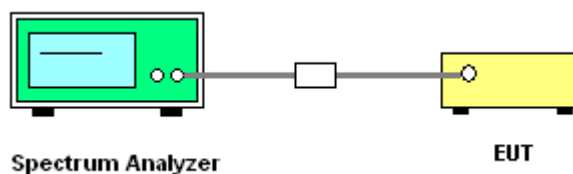
Please refer to section 5 of equipments list in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	1.5MHz
RB	3 kHz
VB	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	500s

#### 4.3.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyser.
2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. Set Detector to Peak, Trace to Max Hold.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
4. Set the span to 1.5MHz and the sweep time to 500s and record the maximum peak value.

#### 4.3.4. Test Setup Layout



#### 4.3.5. Test Deviation

There is no deviation with the original standard.

#### 4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 4.3.7. Test Result of Power Spectral Density

<b>Temperature</b>	24°C	<b>Humidity</b>	64%
<b>Test Engineer</b>	Leo Hung	<b>Configurations</b>	802.11b/g

##### Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-8.57	8.00	Complies
6	2437 MHz	-8.24	8.00	Complies
11	2462 MHz	-8.38	8.00	Complies

##### Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-17.23	8.00	Complies
6	2437 MHz	-18.38	8.00	Complies
11	2462 MHz	-16.71	8.00	Complies







#### 4.4. 6dB Spectrum Bandwidth Measurement

##### 4.4.1. Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

##### 4.4.2. Measuring Instruments and Setting

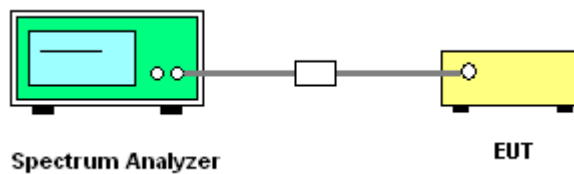
Please refer to section 5 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

##### 4.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
3. Measured the spectrum width with power higher than 6dB below carrier.

##### 4.4.4. Test Setup Layout



#### 4.4.5. Test Deviation

There is no deviation with the original standard.

#### 4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 4.4.7. Test Result of 6dB Spectrum Bandwidth

<b>Temperature</b>	24°C	<b>Humidity</b>	64%
<b>Test Engineer</b>	Leo Hung	<b>Configurations</b>	802.11b/g

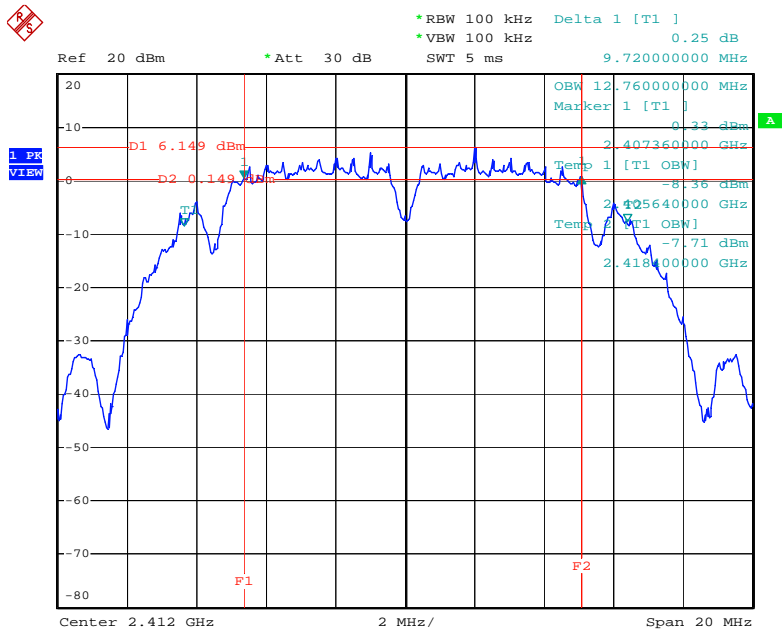
##### Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	9.72	12.76	500	Complies
6	2437 MHz	10.08	12.76	500	Complies
11	2462 MHz	10.12	12.76	500	Complies

##### Configuration IEEE 802.11g

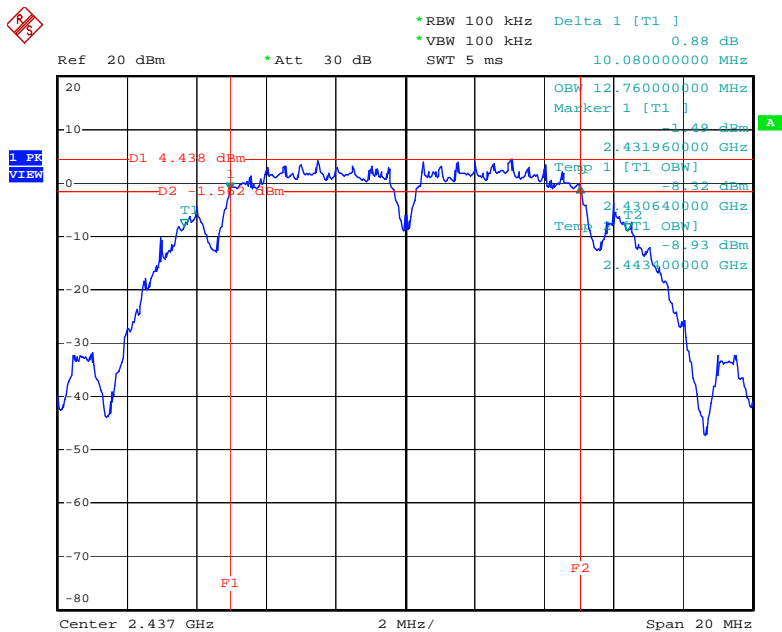
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.36	16.44	500	Complies
6	2437 MHz	16.36	16.40	500	Complies
11	2462 MHz	16.40	16.40	500	Complies

### 6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 24.JUL.2006 10:09:57

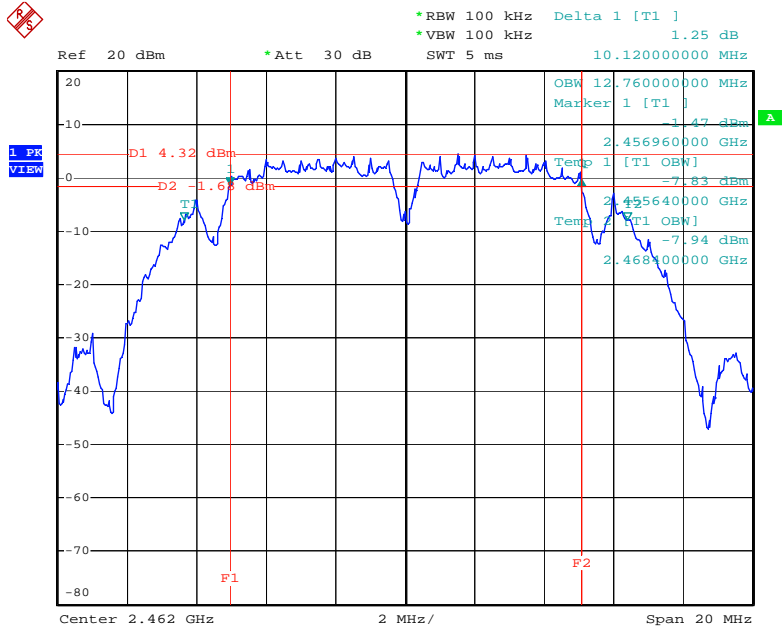
### 6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



Date: 24.JUL.2006 10:13:28

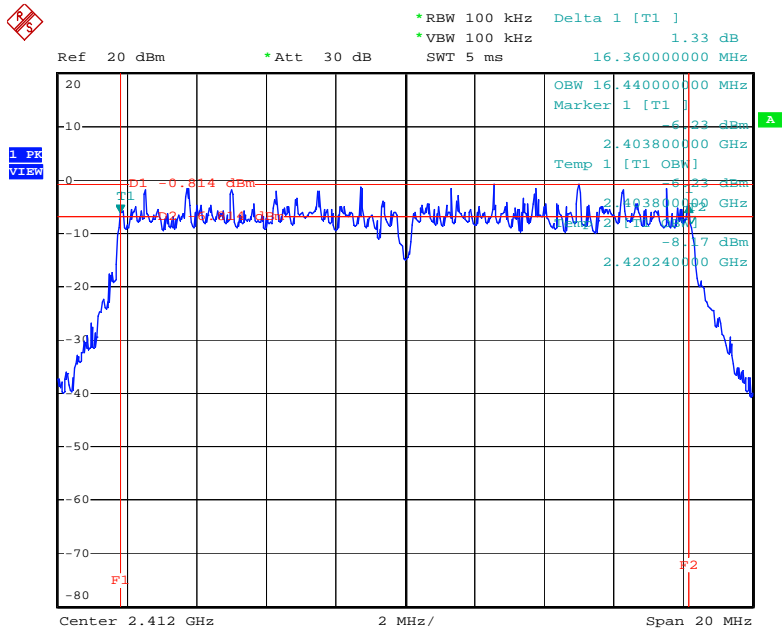


### 6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



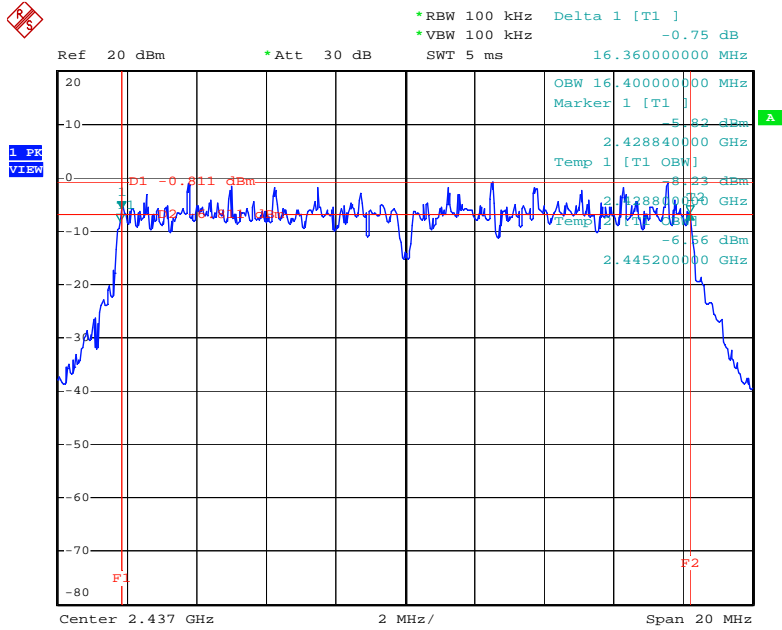
Date: 24.JUL.2006 10:14:14

### 6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



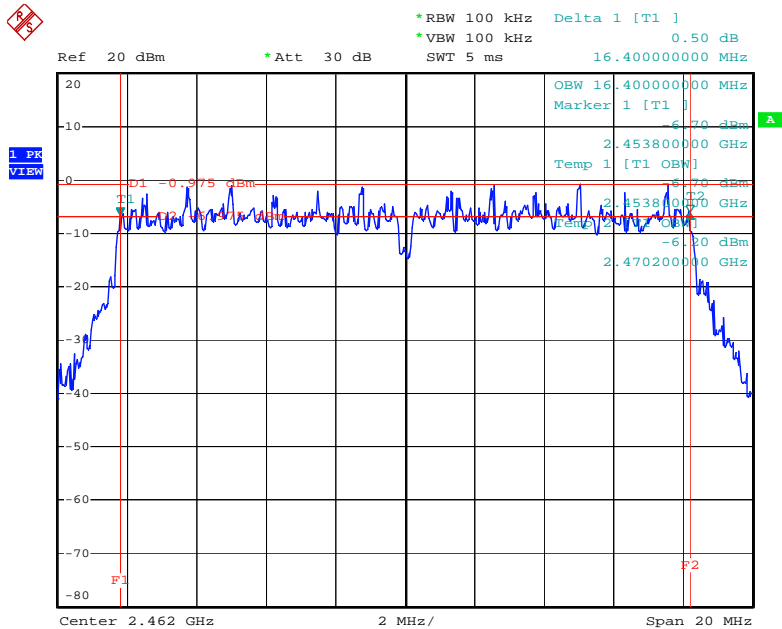
Date: 24.JUL.2006 10:17:37

### 6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



Date: 24.JUL.2006 10:19:28

### 6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 24.JUL.2006 10:20:32

## 4.5. Radiated Emissions Measurement

### 4.5.1. 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

### 4.5.2. Measuring Instruments and Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100KHz / 100KHz for peak

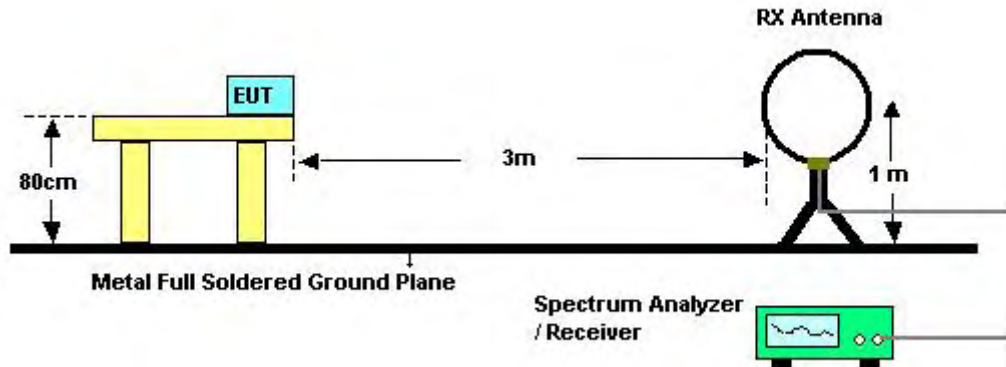
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 4.5.3. Test Procedures

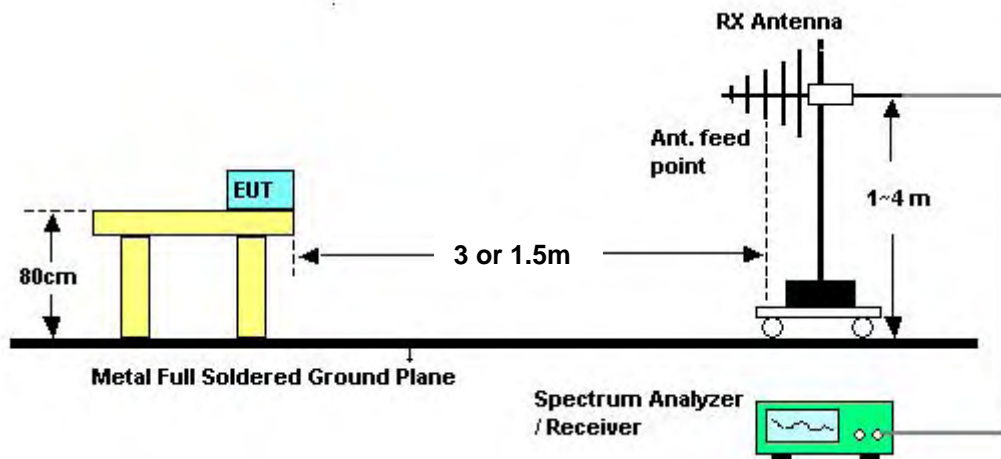
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

#### 4.5.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor =  $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

#### 4.5.5. Test Deviation

There is no deviation with the original standard.

#### 4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 4.5.7. Results of Radiated Emissions (9kHz~30MHz)

<b>Temperature</b>	24°C	<b>Humidity</b>	64%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	802.11g CH 6

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

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

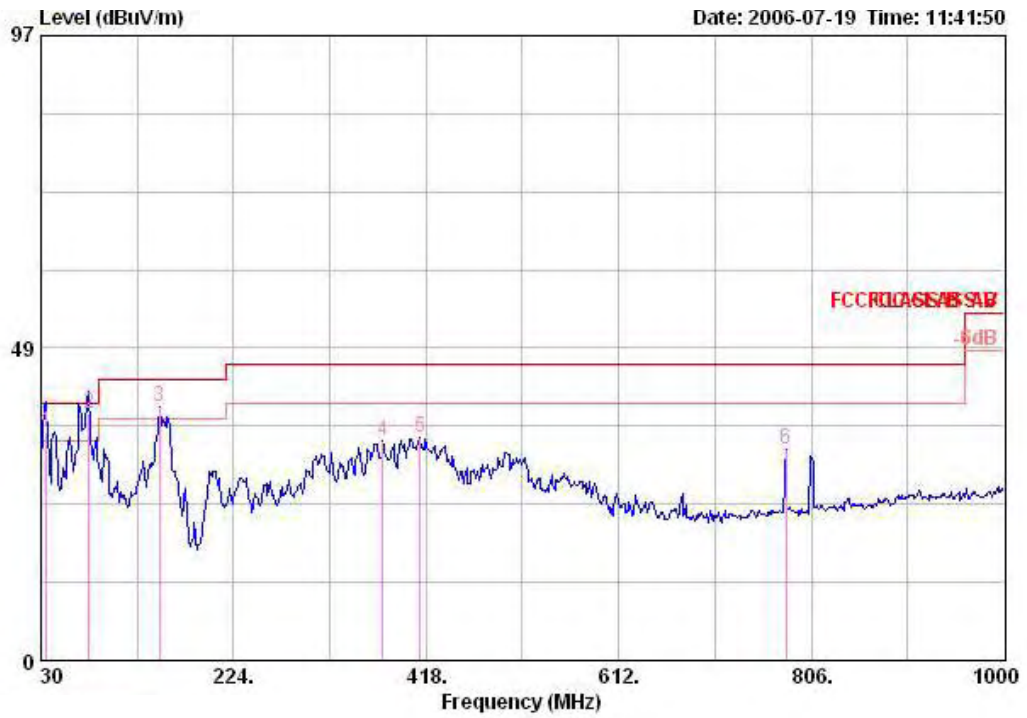
Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.5.8. Results of Radiated Emissions (30MHz~1GHz)

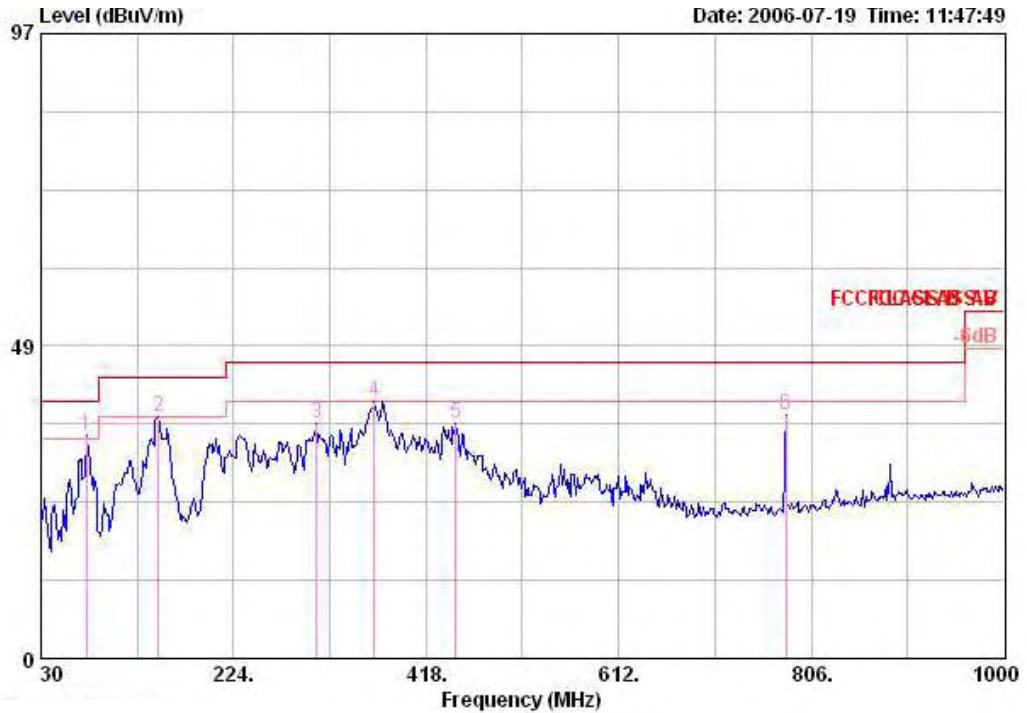
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / Mode 1 with Adapter 1

Vertical



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dBuV	cm	deg
1 @	35.820	35.46	-4.54	40.00	16.50	0.51 29.78	48.23	QP 100 306
2 @	78.500	38.22	-1.78	40.00	7.54	0.72 29.94	59.90	QP 100 360
3 @	149.310	39.51	-3.99	43.50	11.27	0.97 30.09	57.37	Peak --- ---
4	374.350	34.06	-11.94	46.00	15.89	1.53 30.52	47.17	Peak --- ---
5	412.180	34.53	-11.47	46.00	16.68	1.61 30.36	46.61	Peak --- ---
6	780.780	32.73	-13.27	46.00	20.47	2.22 30.10	40.15	Peak --- ---

Horizontal



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table		
Freq	Level	Limit	Line Factor	Loss Factor	Level	Remark	Pos	Pos		
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dBuV	cm	deg		
1 !	75.590	34.61	-5.39	40.00	7.29	0.70	29.97	56.58 Peak	---	---
2 !	148.340	37.57	-5.93	43.50	11.35	0.96	30.09	55.34 Peak	---	---
3	307.420	36.56	-9.44	46.00	14.12	1.39	30.25	51.31 Peak	---	---
4	365.620	39.97	-6.03	46.00	15.68	1.51	30.55	53.33 Peak	---	---
5	448.070	36.48	-9.52	46.00	17.17	1.68	30.47	48.10 Peak	---	---
6	780.780	37.90	-8.10	46.00	20.47	2.22	30.10	45.31 Peak	---	---

Note:

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

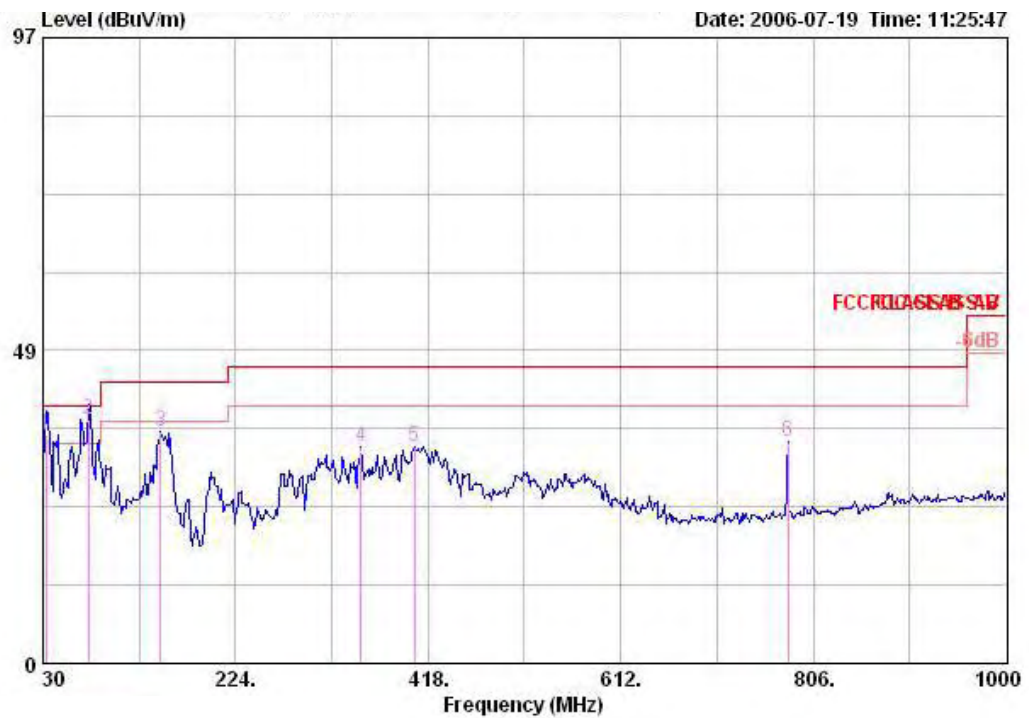
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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



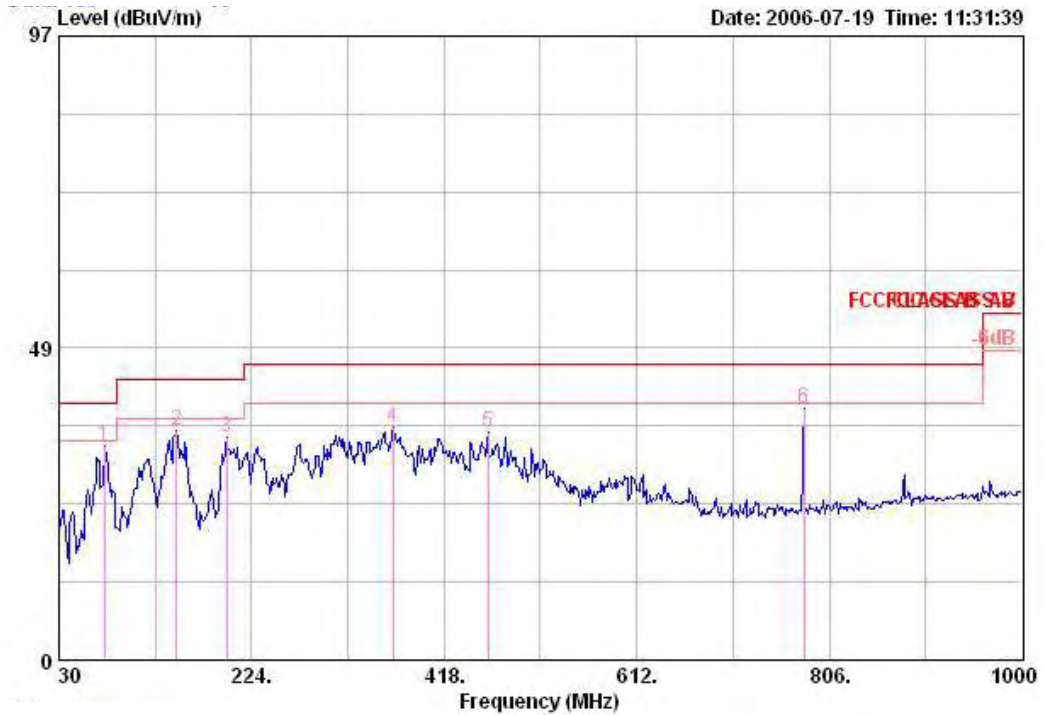
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / Mode 2 with Adapter 1

Vertical



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos			
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dBuV	cm	deg			
1 @	32.910	35.40	-4.60	40.00	18.34	0.49	29.78	46.35	QP	100	311
2 @	75.590	37.71	-2.29	40.00	7.29	0.70	29.97	59.68	QP	360	100
3	148.340	35.95	-7.55	43.50	11.35	0.96	30.09	53.73	Peak	---	---
4	350.100	33.68	-12.32	46.00	15.30	1.48	30.59	47.49	Peak	---	---
5	404.420	33.51	-12.49	46.00	16.57	1.60	30.35	45.70	Peak	---	---
6	780.780	34.28	-11.72	46.00	20.47	2.22	30.10	41.70	Peak	---	---

Horizontal



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos			
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dBuV	cm	deg			
1	75.590	33.36	-6.64	40.00	7.29	0.70	29.97	55.33	Peak	---	---
2	148.340	35.78	-7.72	43.50	11.35	0.96	30.09	53.56	Peak	---	---
3	198.780	34.68	-8.82	43.50	10.22	1.11	30.00	53.34	Peak	---	---
4	366.590	36.19	-9.81	46.00	15.70	1.51	30.55	49.52	Peak	---	---
5	462.620	35.35	-10.65	46.00	17.35	1.71	30.49	46.79	Peak	---	---
6	780.780	39.09	-6.91	46.00	20.47	2.22	30.10	46.51	Peak	---	---

Note:

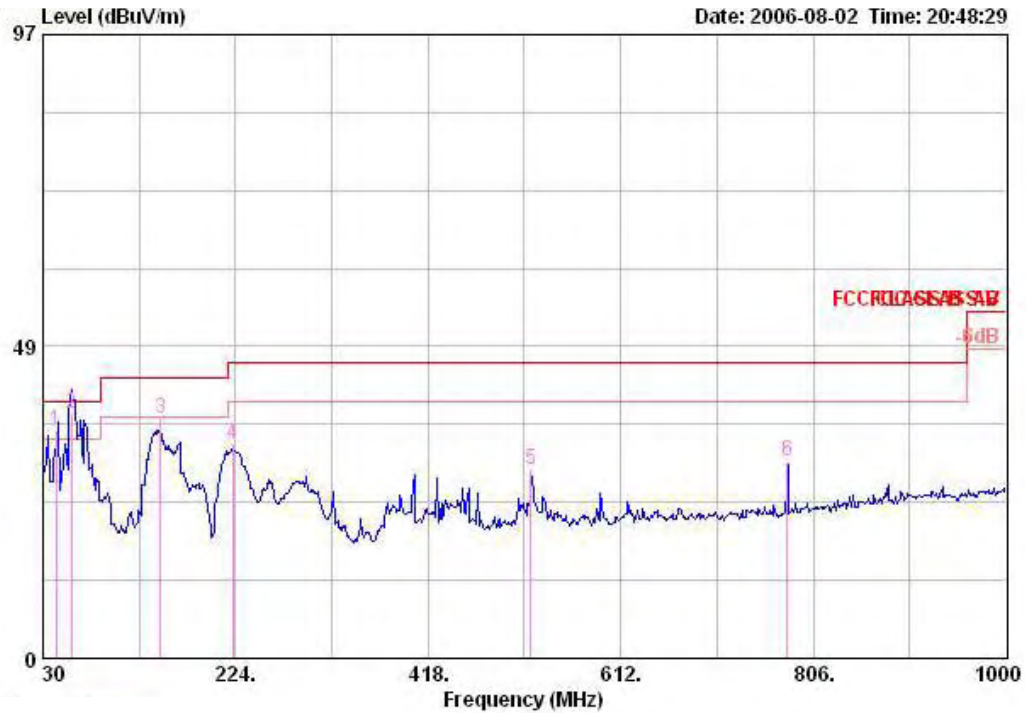
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

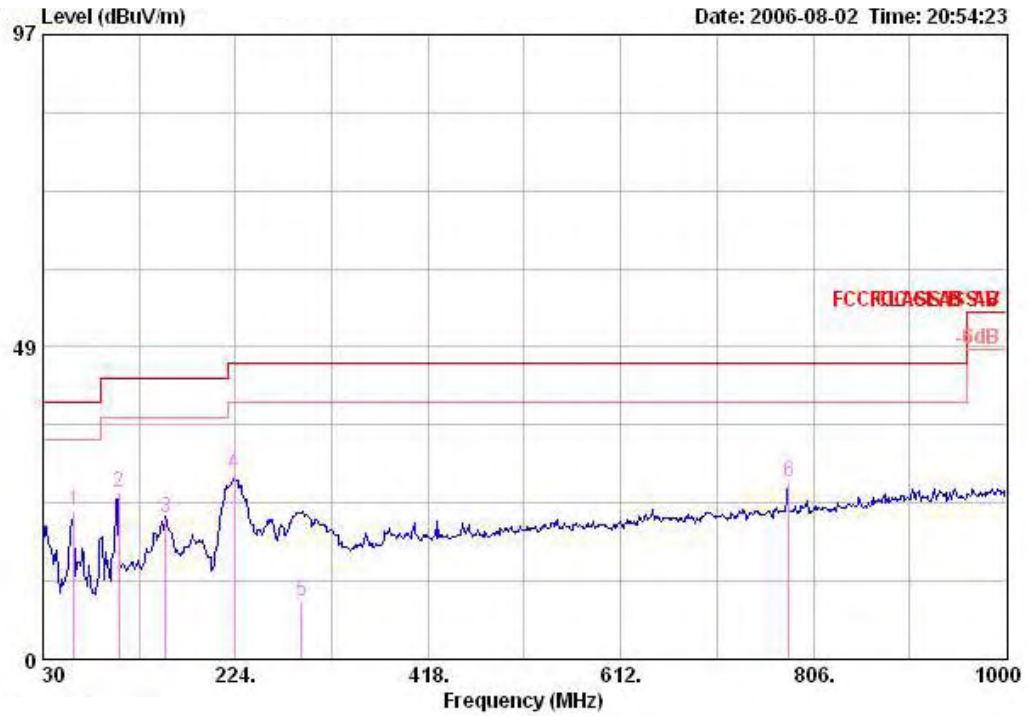
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / Mode 1 with Adapter 2

Vertical



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos			
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			
1 @	43.310	35.49	-4.51	40.00	11.50	0.57	29.83	53.25	Peak	---	---
2 @	58.600	38.19	-1.81	40.00	7.28	0.65	29.86	60.12	QP	100	236
3 @	148.230	37.21	-6.29	43.50	11.35	0.96	30.09	54.99	Peak	---	---
4 @	221.300	33.25	-12.75	46.00	10.74	1.18	30.03	51.36	Peak	---	---
5	520.990	29.28	-16.72	46.00	18.15	1.81	30.57	39.89	Peak	---	---
6 @	780.010	30.59	-15.41	46.00	20.47	2.22	30.10	38.01	Peak	---	---

Horizontal



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos			
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			
1	61.020	22.89	-17.11	40.00	7.10	0.65	29.87	45.01	Peak	---	---
2	106.320	25.95	-17.55	43.50	11.98	0.82	30.08	43.22	Peak	---	---
3	153.960	22.00	-21.50	43.50	10.99	0.98	30.12	40.15	Peak	---	---
4	223.010	28.78	-17.22	46.00	10.74	1.18	30.03	46.89	Peak	---	---
5	290.360	9.00	-37.00	46.00	13.74	1.35	30.06	23.97	Peak	---	---
6	781.300	27.57	-18.43	46.00	20.47	2.22	30.10	34.99	Peak	---	---

Note:

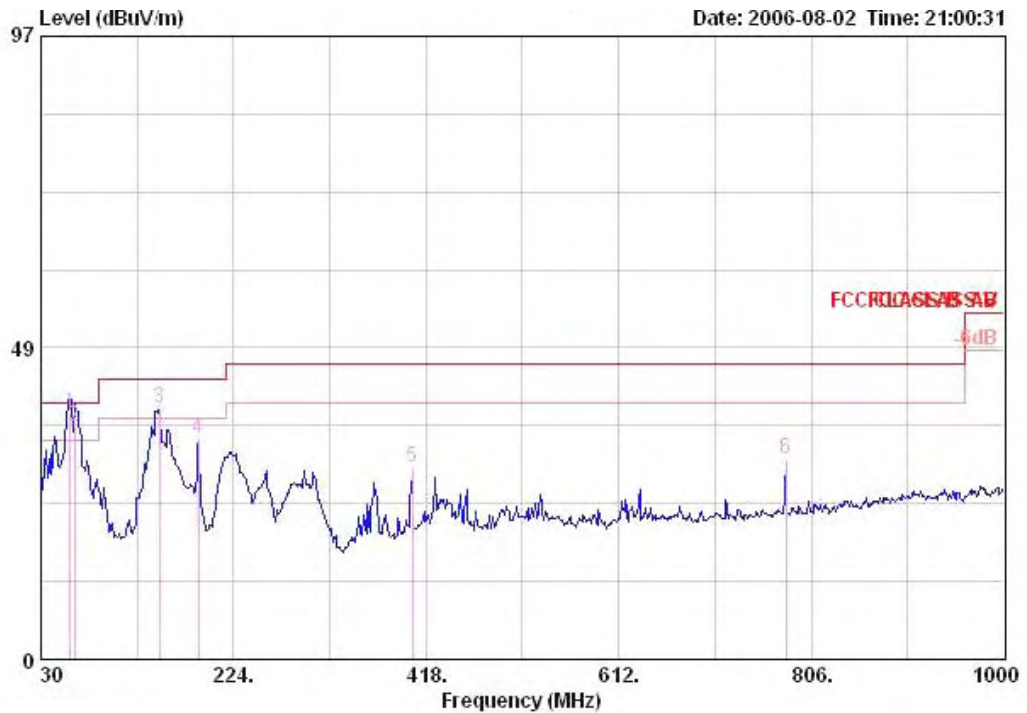
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / Mode 2 with Adapter 2

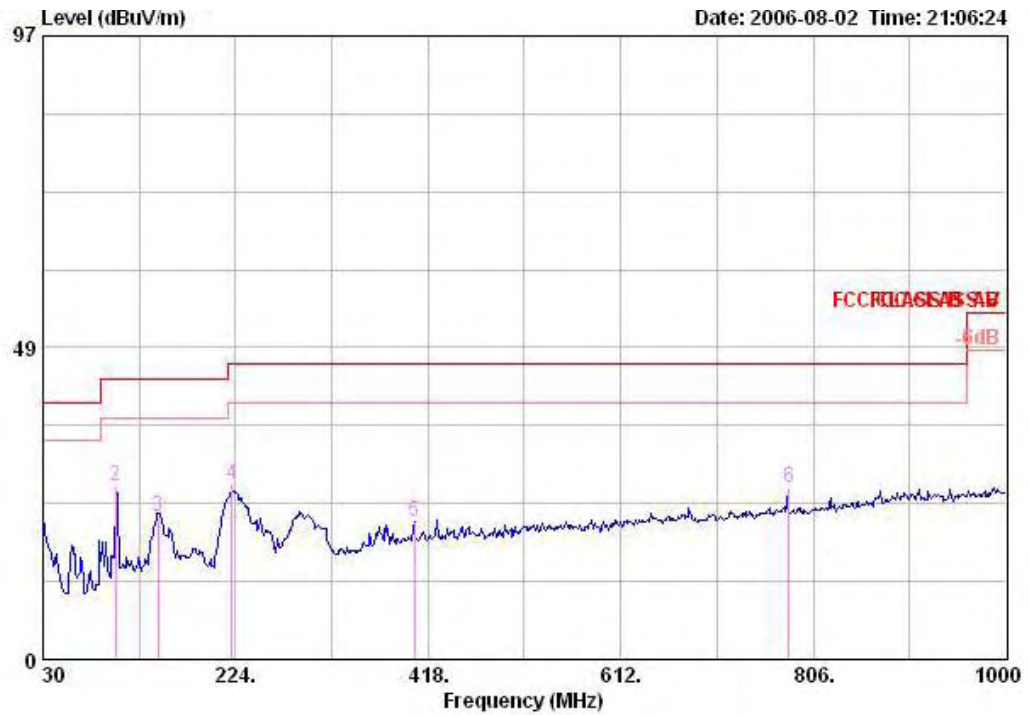
Vertical



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos			
MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dBuV	cm	deg			
1 @	59.320	38.42	-1.58	40.00	7.28	0.65	29.86	60.35	QP	100	230
2 @	63.850	36.09	-3.91	40.00	6.98	0.67	29.89	58.33	QP	100	245
3 @	148.960	39.20	-4.30	43.50	11.35	0.96	30.09	56.98	Peak	---	---
4 @	188.400	34.34	-9.16	43.50	9.54	1.08	29.98	53.69	Peak	---	---
5 @	403.900	29.77	-16.23	46.00	16.57	1.60	30.35	41.96	Peak	---	---
6 @	780.960	31.23	-14.77	46.00	20.47	2.22	30.10	38.65	Peak	---	---



Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	30.000	21.92	-18.08	40.00	20.20	0.47	29.80	31.05	Peak		---	---
2 @	103.560	27.01	-16.49	43.50	11.59	0.81	30.08	44.69	Peak		---	---
3	146.300	22.08	-21.42	43.50	11.56	0.95	30.07	39.63	Peak		---	---
4	219.910	27.12	-18.88	46.00	10.61	1.17	30.02	45.36	Peak		---	---
5	404.420	21.41	-24.59	46.00	16.57	1.60	30.35	33.60	Peak		---	---
6	781.230	26.59	-19.41	46.00	20.47	2.22	30.10	34.01	Peak		---	---

Note:

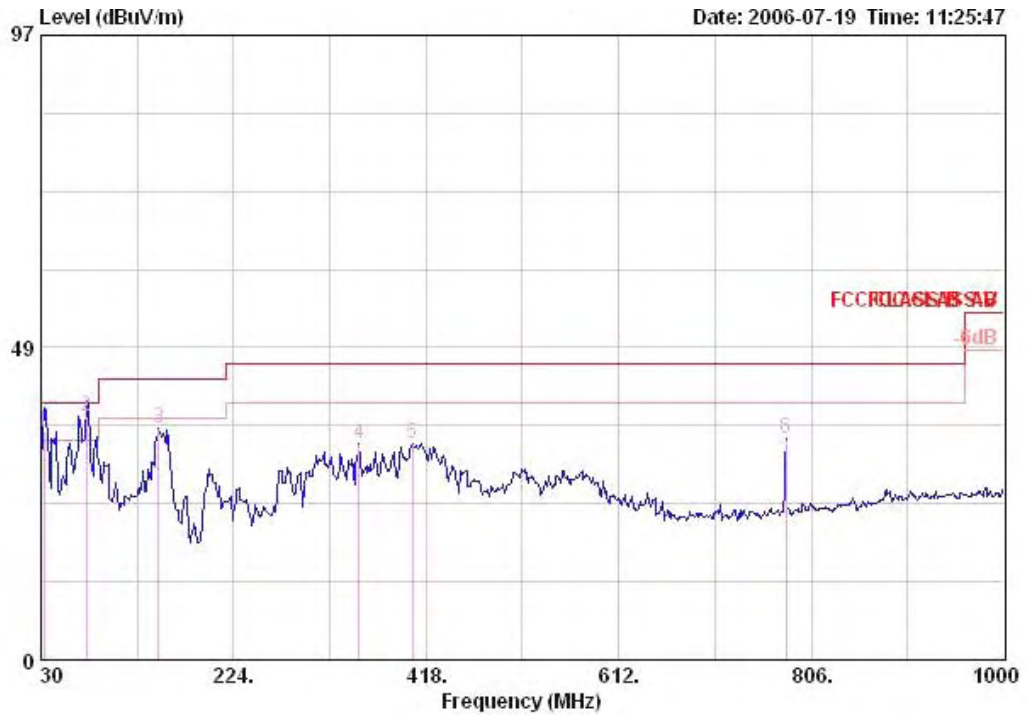
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

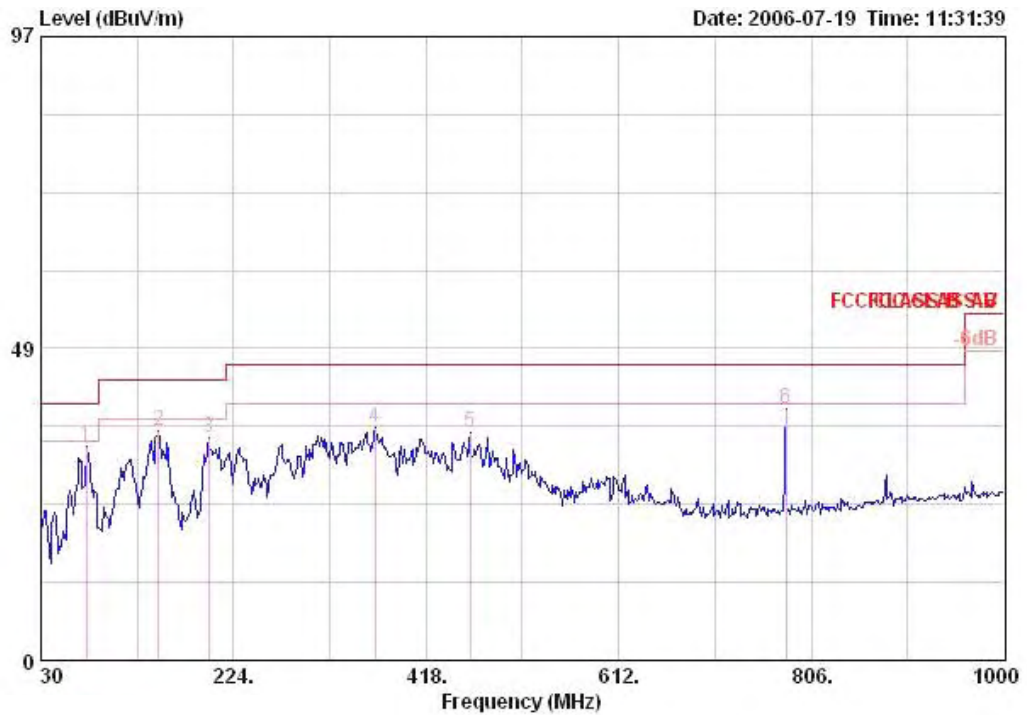
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / X-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 !	32.910	35.40	-4.60	40.00	18.34	0.49	29.78	46.35	QP	100	311
2 !	75.590	37.71	-2.29	40.00	7.29	0.70	29.97	59.68	QP	360	100
3	148.340	35.95	-7.55	43.50	11.35	0.96	30.09	53.73	Peak	---	---
4	350.100	33.68	-12.32	46.00	15.30	1.48	30.59	47.49	Peak	---	---
5	404.420	33.51	-12.49	46.00	16.57	1.60	30.35	45.70	Peak	---	---
6	780.780	34.28	-11.72	46.00	20.47	2.22	30.10	41.70	Peak	---	---

Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	75.590	33.36	-6.64	40.00	7.29	0.70	29.97	55.33	Peak	---	---
2	148.340	35.78	-7.72	43.50	11.35	0.96	30.09	53.56	Peak	---	---
3	198.780	34.68	-8.82	43.50	10.22	1.11	30.00	53.34	Peak	---	---
4	366.590	36.19	-9.81	46.00	15.70	1.51	30.55	49.52	Peak	---	---
5	462.620	35.35	-10.65	46.00	17.35	1.71	30.49	46.79	Peak	---	---
6	780.780	39.09	-6.91	46.00	20.47	2.22	30.10	46.51	Peak	---	---

Note:

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

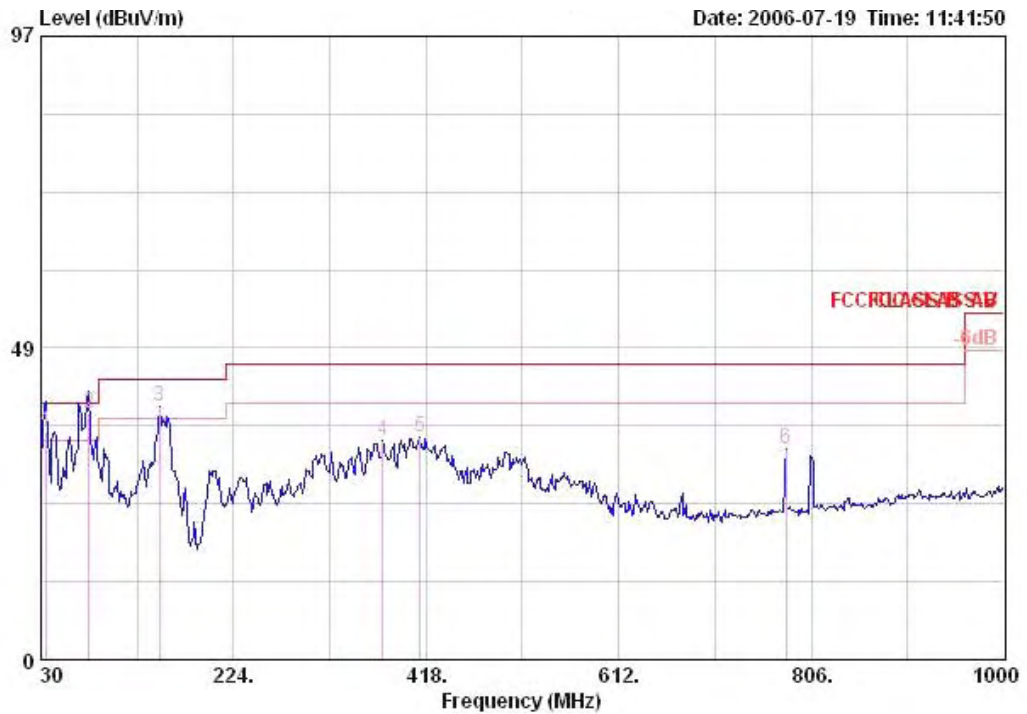
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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



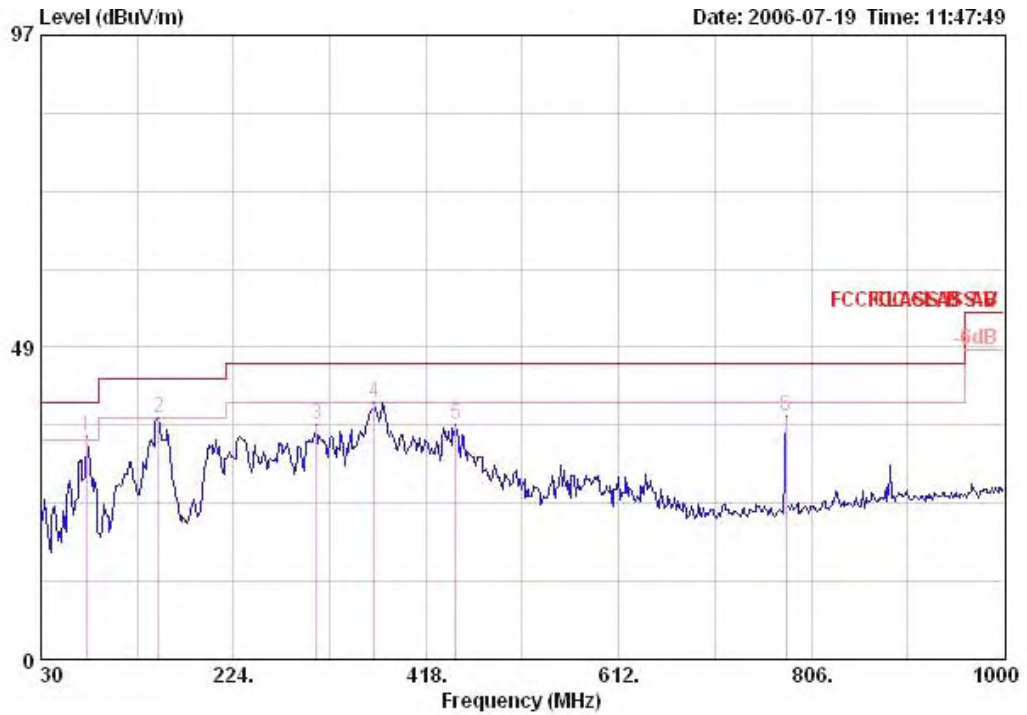
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / Y-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 !	35.820	35.46	-4.54	40.00	16.50	0.51	29.78	48.23	QP	100	306
2 !	78.500	38.22	-1.78	40.00	7.54	0.72	29.94	59.90	QP	100	360
3 !	149.310	39.51	-3.99	43.50	11.27	0.97	30.09	57.37	Peak	---	---
4	374.350	34.06	-11.94	46.00	15.89	1.53	30.52	47.17	Peak	---	---
5	412.180	34.53	-11.47	46.00	16.68	1.61	30.36	46.61	Peak	---	---
6	780.780	32.73	-13.27	46.00	20.47	2.22	30.10	40.15	Peak	---	---

Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 !	75.590	34.61	-5.39	40.00	7.29	0.70	29.97	56.58	Peak	---	---
2 !	148.340	37.57	-5.93	43.50	11.35	0.96	30.09	55.34	Peak	---	---
3	307.420	36.56	-9.44	46.00	14.12	1.39	30.25	51.31	Peak	---	---
4	365.620	39.97	-6.03	46.00	15.68	1.51	30.55	53.33	Peak	---	---
5	448.070	36.48	-9.52	46.00	17.17	1.68	30.47	48.10	Peak	---	---
6	780.780	37.90	-8.10	46.00	20.47	2.22	30.10	45.31	Peak	---	---

Note:

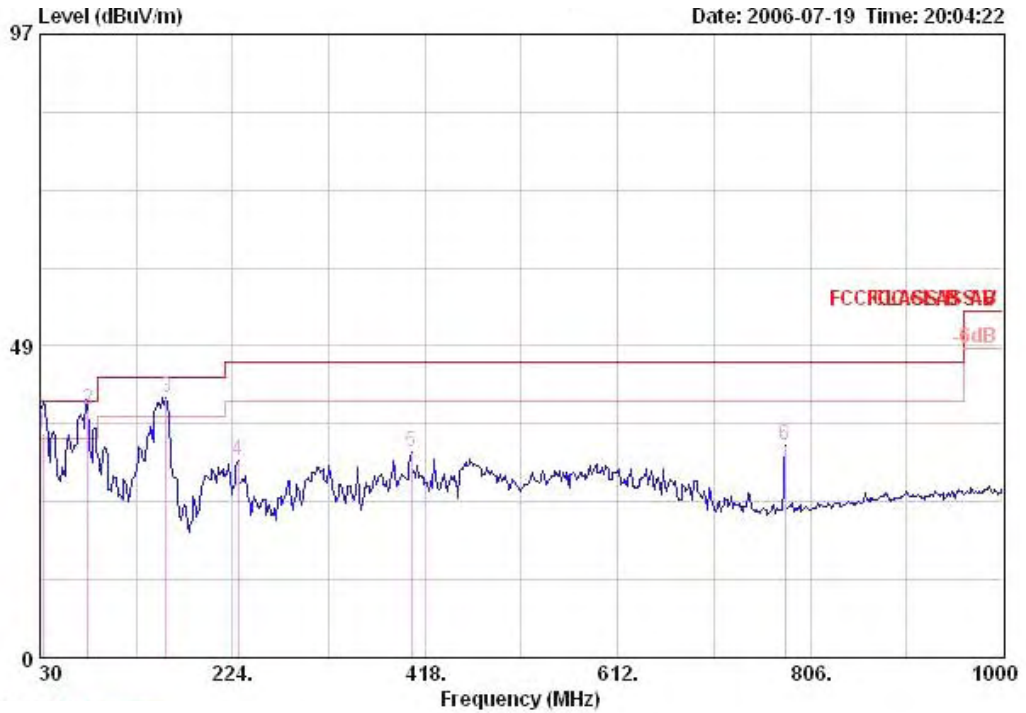
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

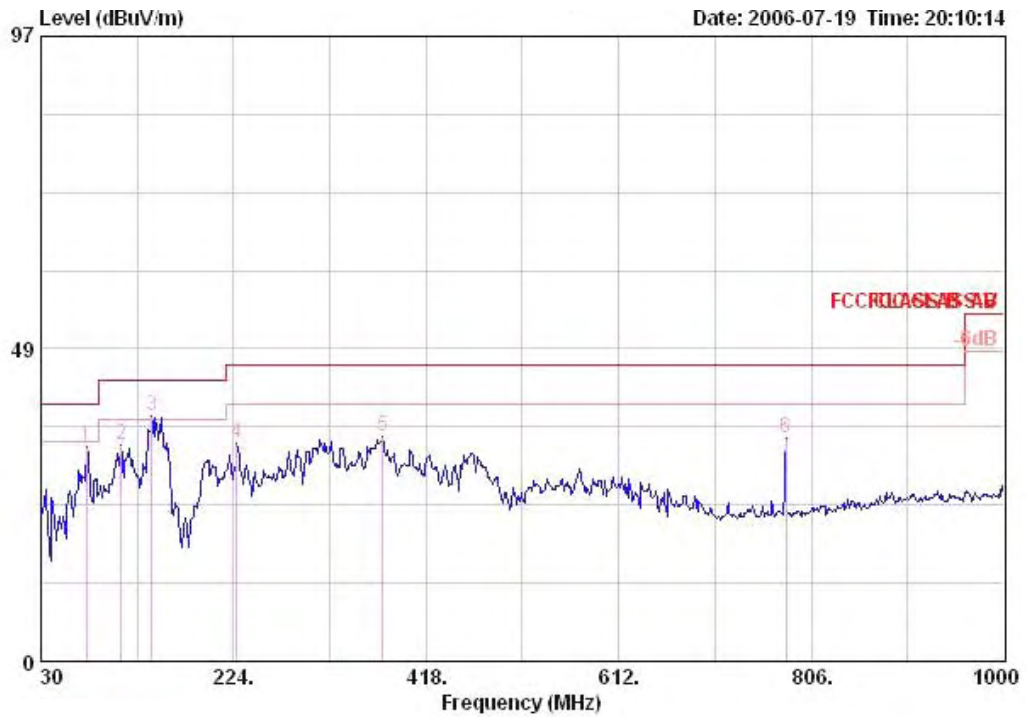
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / Z-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 !	32.910	34.85	-5.15	40.00	18.34	0.49	29.78	45.80	QP	100	302
2 !	78.500	38.72	-1.28	40.00	7.54	0.72	29.94	60.40	QP	100	358
3 !	157.070	40.50	-3.00	43.50	10.71	1.00	30.14	58.93	Peak	---	---
4	229.820	30.76	-15.24	46.00	11.30	1.20	30.07	48.33	Peak	---	---
5	404.420	31.95	-14.05	46.00	16.57	1.60	30.35	44.14	Peak	---	---
6	780.780	33.04	-12.96	46.00	20.47	2.22	30.10	40.45	Peak	---	---

Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	75.590	33.34	-6.66	40.00	7.29	0.70	29.97	55.31	Peak	---	---
2	110.510	33.64	-9.86	43.50	12.53	0.84	30.07	50.34	Peak	---	---
3 !	141.550	38.04	-5.46	43.50	11.85	0.94	30.04	55.29	Peak	---	---
4	226.910	33.85	-12.15	46.00	11.09	1.19	30.06	51.63	Peak	---	---
5	374.350	34.81	-11.19	46.00	15.89	1.53	30.52	47.92	Peak	---	---
6	780.780	34.64	-11.36	46.00	20.47	2.22	30.10	42.06	Peak	---	---

Note:

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

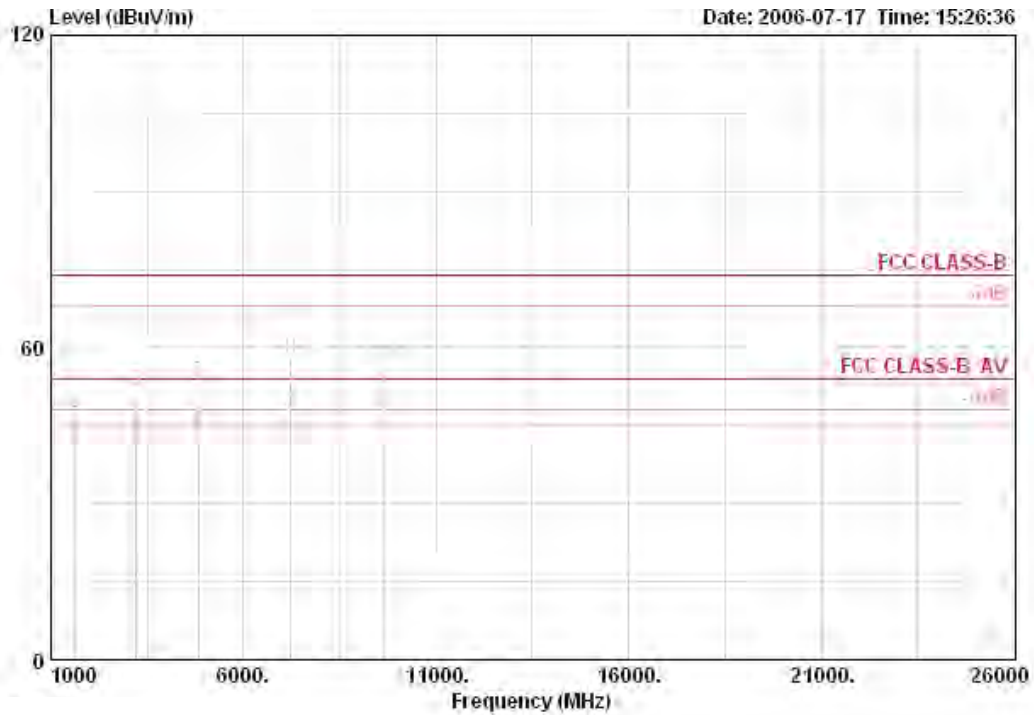
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

4.5.9. Results for Radiated Emissions (1GHz~10<sup>th</sup> Harmonic)

Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 1 / X-Axis

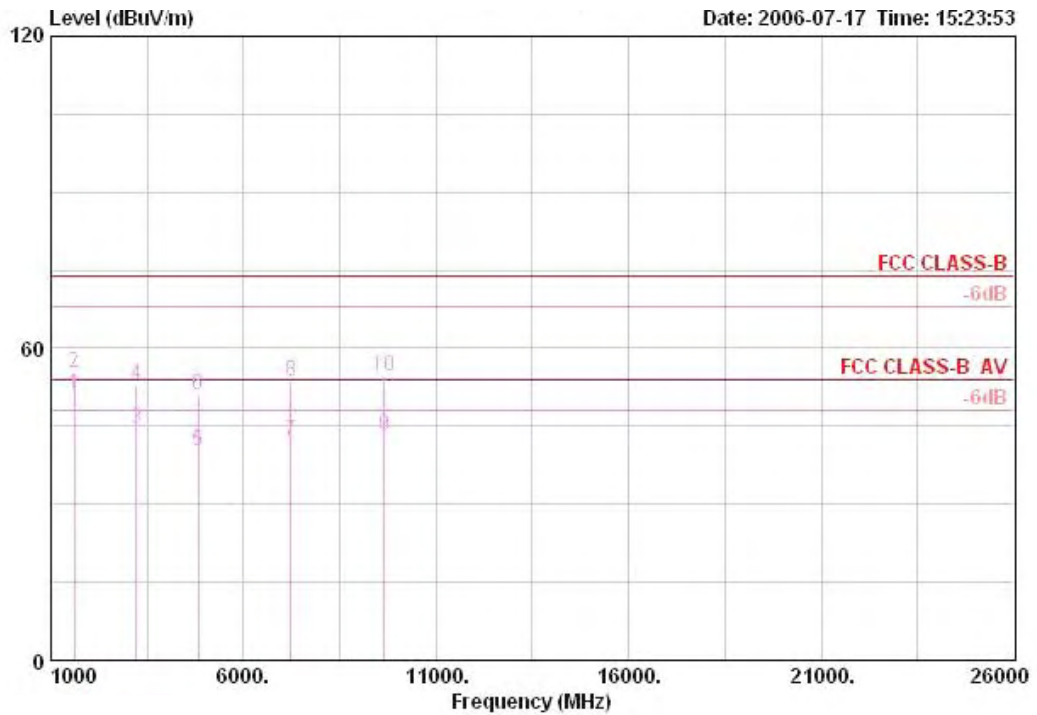
Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Antenna Factor	Cable Loss	Preamp	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV			cm	deg
1	1607.980	40.79	-13.21	54.00	25.64	2.08	33.74	46.80	AVERAGE		100	304
2	1608.000	47.55	-26.45	74.00	25.64	2.08	33.74	53.57	PEAK		100	304
3	3216.000	51.61	-22.39	74.00	30.66	3.05	33.61	51.52	PEAK		100	278
4	3216.100	42.50	-11.50	54.00	30.66	3.05	33.61	42.41	AVERAGE		100	278
5	4823.880	43.55	-10.45	54.00	33.22	4.68	33.24	38.89	AVERAGE		100	106
6	4823.960	53.24	-20.76	74.00	33.22	4.68	33.24	48.58	PEAK		100	106
7	7236.660	47.51	-6.49	54.00	36.08	5.31	33.40	39.52	AVERAGE		100	162
8	7237.020	57.91	-16.09	74.00	36.08	5.31	33.40	49.92	PEAK		100	162
9	9647.960	47.73	-6.27	54.00	38.42	5.37	33.84	37.78	AVERAGE		100	245
10	9648.080	56.66	-17.34	74.00	38.42	5.37	33.84	46.71	PEAK		100	245



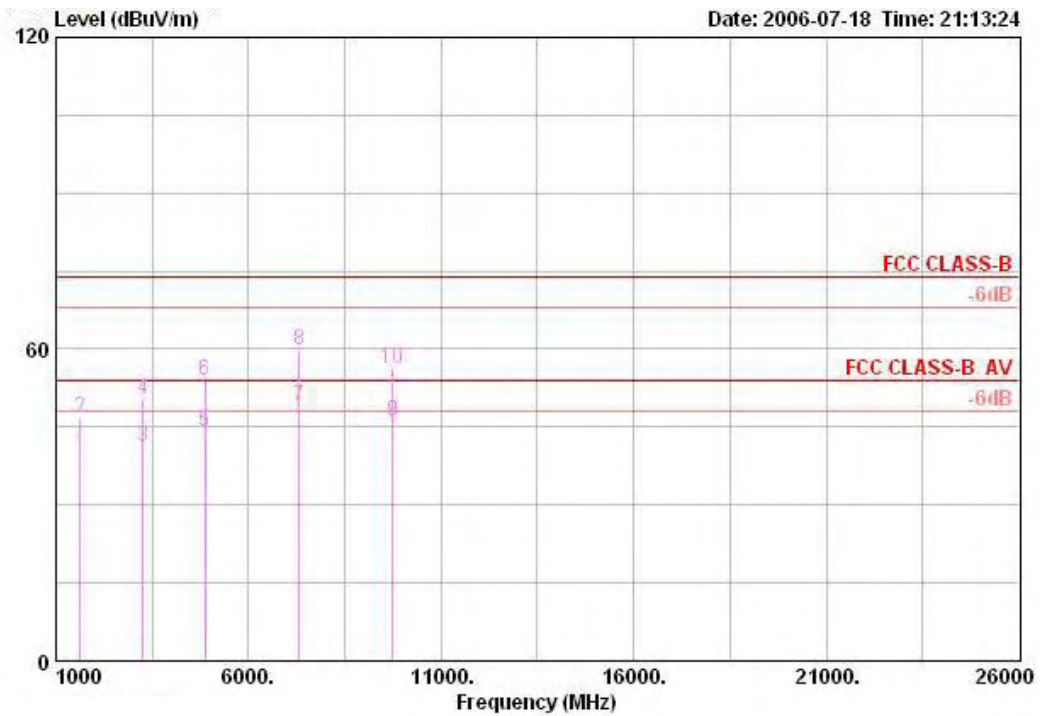
Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 !	1608.060	51.04	-2.96	54.00	25.64	2.08	33.74	57.06	AVERAGE	113	63
2	1608.060	55.10	-18.90	74.00	25.64	2.08	33.74	61.11	PEAK	113	63
3	3215.900	44.55	-9.45	54.00	30.66	3.05	33.61	44.46	AVERAGE	100	126
4	3216.000	52.92	-21.08	74.00	30.66	3.05	33.61	52.82	PEAK	100	126
5	4823.920	40.25	-13.75	54.00	33.22	4.68	33.24	35.59	AVERAGE	100	201
6	4824.080	50.93	-23.07	74.00	33.22	4.68	33.24	46.27	PEAK	100	201
7	7238.640	42.32	-11.68	54.00	36.08	5.31	33.40	34.33	AVERAGE	100	248
8	7238.800	53.57	-20.43	74.00	36.08	5.31	33.40	45.58	PEAK	100	248
9	9648.040	43.21	-10.79	54.00	38.42	5.37	33.84	33.26	AVERAGE	100	21
10	9648.320	54.64	-19.36	74.00	38.42	5.37	33.84	44.69	PEAK	100	21

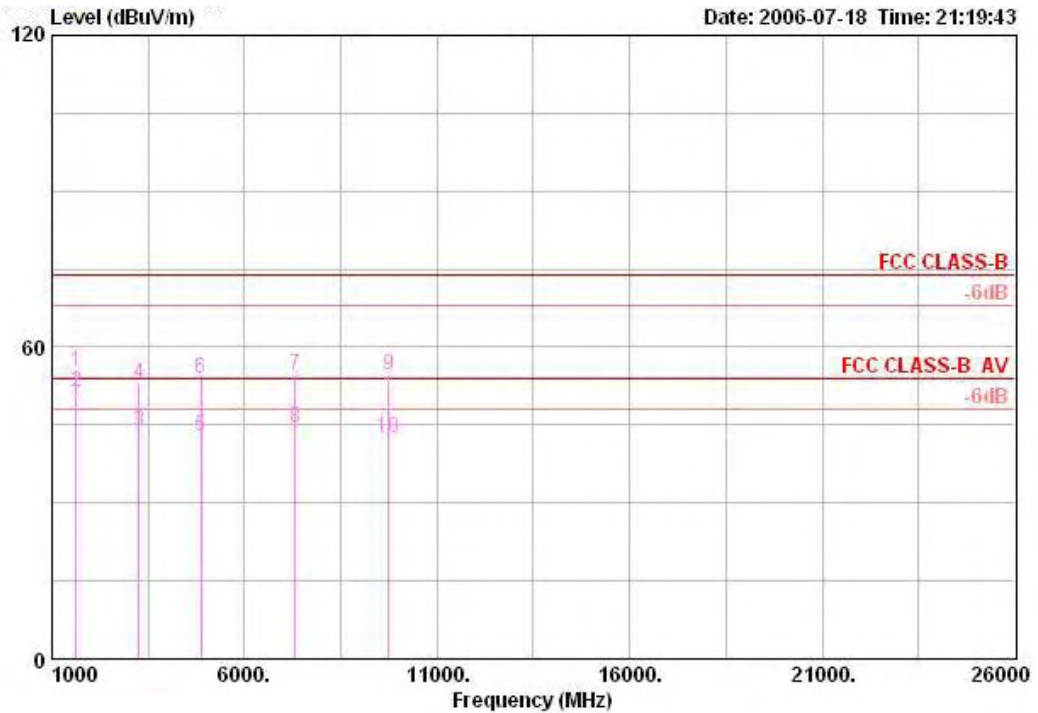
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 6 / X-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	1624.660	39.97	-14.03	54.00	25.71		2.08	33.74	45.91	AVERAGE	110	94
2	1624.700	46.72	-27.28	74.00	25.71		2.08	33.74	52.67	PEAK	110	94
3	3249.240	41.18	-12.82	54.00	30.73		3.08	33.60	40.96	AVERAGE	100	82
4	3249.420	50.46	-23.54	74.00	30.73		3.08	33.60	50.25	PEAK	100	82
5	4874.000	44.22	-9.78	54.00	33.33		4.69	33.23	39.42	AVERAGE	114	92
6	4874.020	54.02	-19.98	74.00	33.33		4.69	33.23	49.21	PEAK	114	92
7 !	7313.700	49.01	-4.99	54.00	36.24		5.39	33.43	40.80	AVERAGE	100	140
8	7313.900	59.80	-14.20	74.00	36.24		5.39	33.43	51.59	PEAK	100	140
9	9747.940	46.01	-7.99	54.00	38.56		5.40	33.80	35.85	AVERAGE	100	103
10	9748.000	56.37	-17.63	74.00	38.56		5.40	33.80	46.20	PEAK	100	103

Horizontal

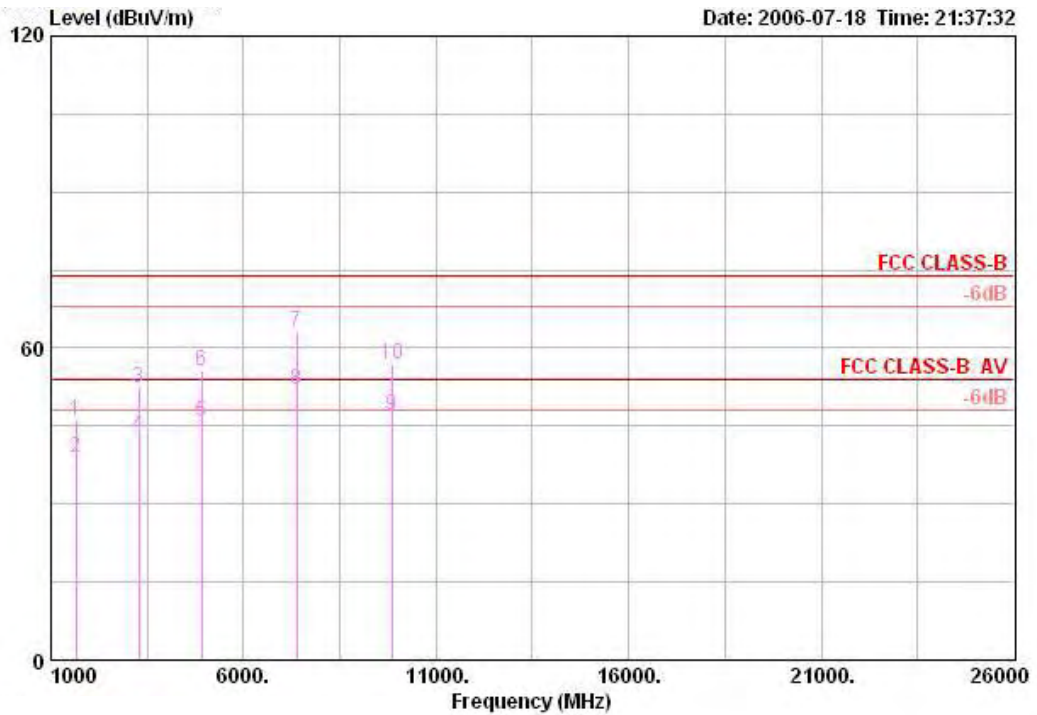


	Freq	Level	Over Limit	Limit	Antenna Line	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	1624.700	55.35	-18.65	74.00	25.71	2.08	33.74	61.30	PEAK	106	63
2 !	1624.740	51.25	-2.75	54.00	25.71	2.08	33.74	57.20	AVERAGE	106	63
3	3249.325	43.72	-10.28	54.00	30.73	3.08	33.60	43.51	AVERAGE	100	235
4	3249.425	52.89	-21.11	74.00	30.73	3.08	33.60	52.67	PEAK	100	235
5	4874.090	42.91	-11.09	54.00	33.33	4.69	33.23	38.11	AVERAGE	119	81
6	4874.100	53.84	-20.16	74.00	33.33	4.69	33.23	49.04	PEAK	119	81
7	7312.300	54.66	-19.34	74.00	36.24	5.39	33.43	46.45	PEAK	100	217
8	7313.700	44.34	-9.66	54.00	36.24	5.39	33.43	36.13	AVERAGE	100	217
9	9747.900	54.48	-19.52	74.00	38.56	5.40	33.80	44.32	PEAK	100	176
10	9748.000	42.55	-11.45	54.00	38.56	5.40	33.80	32.39	AVERAGE	100	176



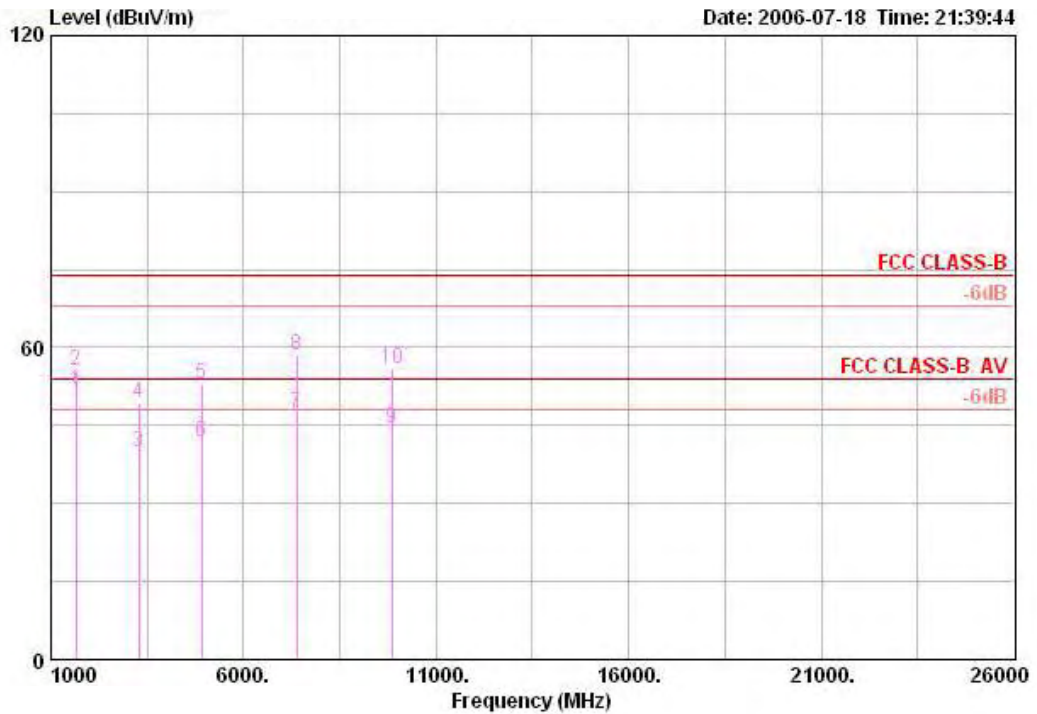
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 11 / X-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	1641.300	46.27	-27.73	74.00	25.77	2.08	33.72	52.13	PEAK		100	265
2	1641.320	39.00	-15.00	54.00	25.77	2.08	33.72	44.87	AVERAGE		100	265
3	3282.560	52.31	-21.69	74.00	30.81	3.12	33.58	51.97	PEAK		100	332
4	3282.740	43.30	-10.70	54.00	30.81	3.12	33.58	42.95	AVERAGE		100	332
5	4923.850	45.91	-8.09	54.00	33.45	4.73	33.22	40.95	AVERAGE		100	281
6	4923.970	55.66	-18.34	74.00	33.45	4.73	33.22	50.70	PEAK		100	281
7	7388.640	63.05	-10.95	74.00	36.45	5.48	33.46	54.58	PEAK		100	149
8 !	7388.940	51.99	-2.01	54.00	36.45	5.48	33.46	43.52	AVERAGE		100	149
9	9847.920	46.97	-7.03	54.00	38.68	5.44	33.76	36.61	AVERAGE		100	338
10	9848.020	57.04	-16.96	74.00	38.68	5.44	33.76	46.68	PEAK		100	338

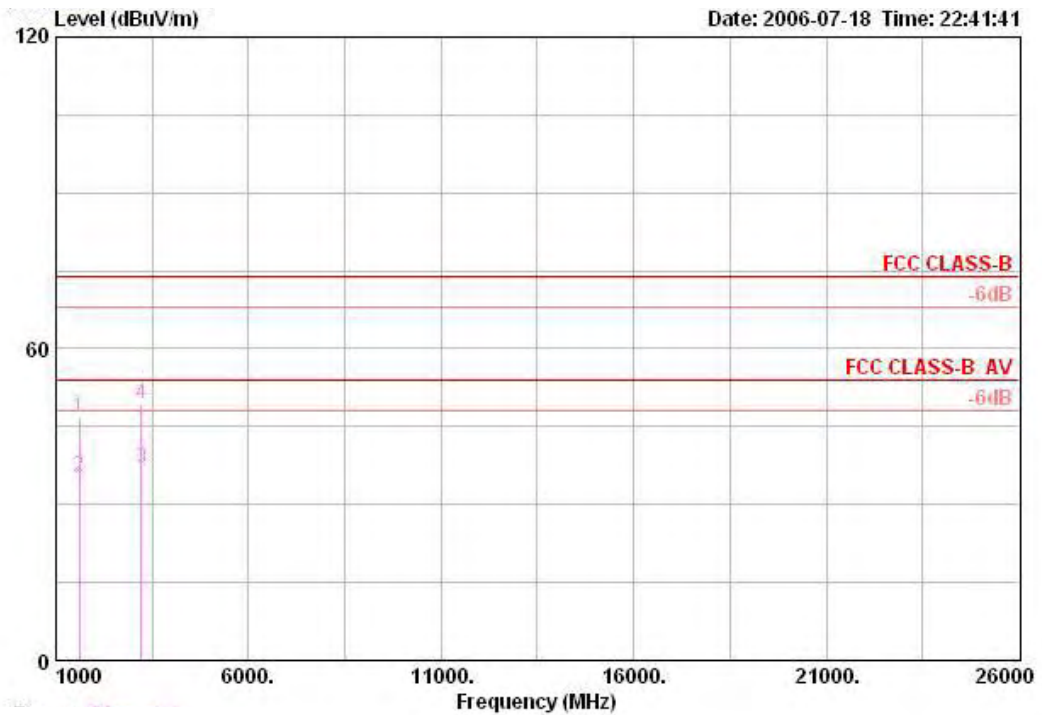
Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1 !	1641.340	51.57	-2.43	54.00	25.77	2.08	33.72	57.44	AVERAGE		108	43
2	1641.340	55.61	-18.39	74.00	25.77	2.08	33.72	61.48	PEAK		108	43
3	3282.660	39.94	-14.06	54.00	30.81	3.12	33.58	39.59	AVERAGE		100	122
4	3282.680	49.39	-24.61	74.00	30.81	3.12	33.58	49.04	PEAK		100	122
5	4923.820	53.02	-20.98	74.00	33.45	4.73	33.22	48.06	PEAK		100	41
6	4924.060	41.88	-12.12	54.00	33.45	4.73	33.22	36.92	AVERAGE		100	41
7	7388.840	47.36	-6.64	54.00	36.45	5.48	33.46	38.89	AVERAGE		109	217
8	7390.040	58.42	-15.58	74.00	36.45	5.48	33.46	49.95	PEAK		109	217
9	9847.920	44.51	-9.49	54.00	38.68	5.44	33.76	34.15	AVERAGE		100	164
10	9848.180	55.97	-18.03	74.00	38.68	5.44	33.76	45.61	PEAK		100	164

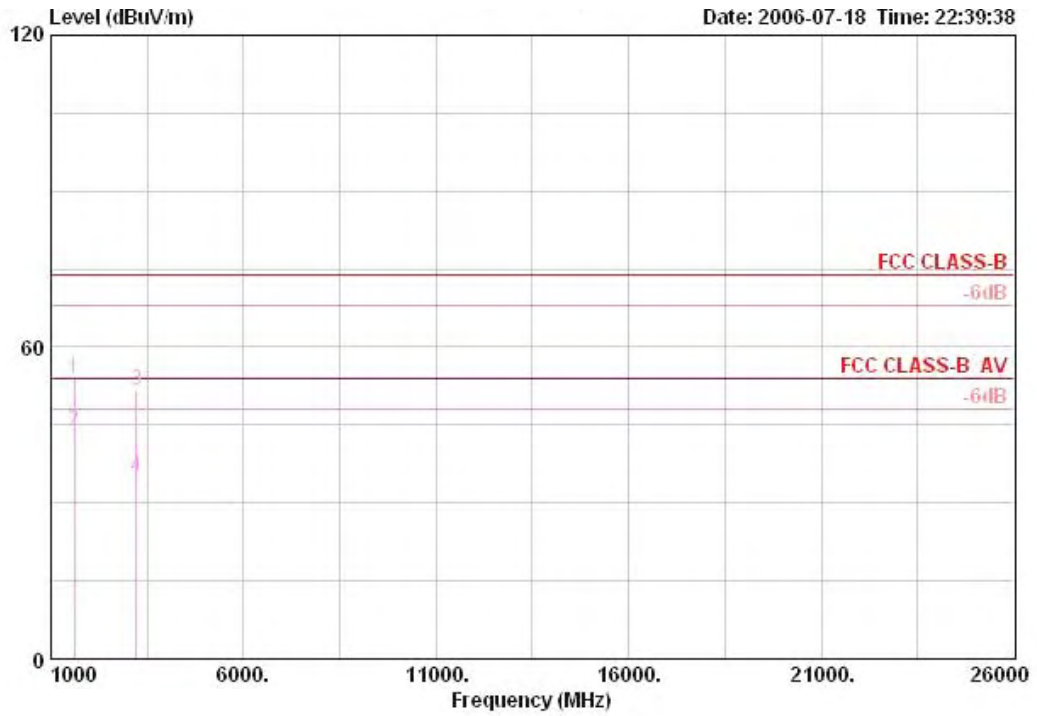
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 1 / X-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dB/m	dB	dB	dB	dBUV		cm	deg
1	1607.960	46.85	-27.15	74.00	25.64	2.08	33.74	52.86	PEAK		100	304
2	1608.020	35.18	-18.82	54.00	25.64	2.08	33.74	41.19	AVERAGE		100	304
3	3216.040	36.88	-17.12	54.00	30.66	3.05	33.61	36.79	AVERAGE		100	342
4	3216.100	49.33	-24.67	74.00	30.66	3.05	33.61	49.24	PEAK		100	342

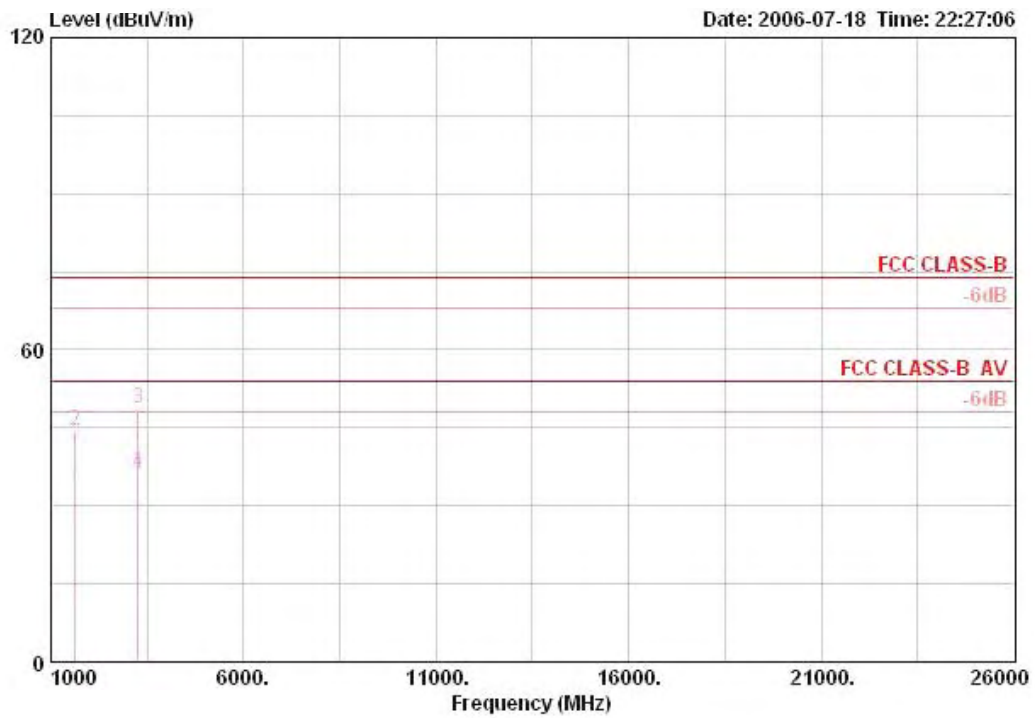
Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	1607.940	53.84	-20.16	74.00	25.64		2.08	33.74	59.85	PEAK	100	15
2	1608.020	43.88	-10.12	54.00	25.64		2.08	33.74	49.89	AVERAGE	100	15
3	3216.020	51.56	-22.44	74.00	30.66		3.05	33.61	51.47	PEAK	100	123
4	3216.060	34.86	-19.14	54.00	30.66		3.05	33.61	34.77	AVERAGE	100	123

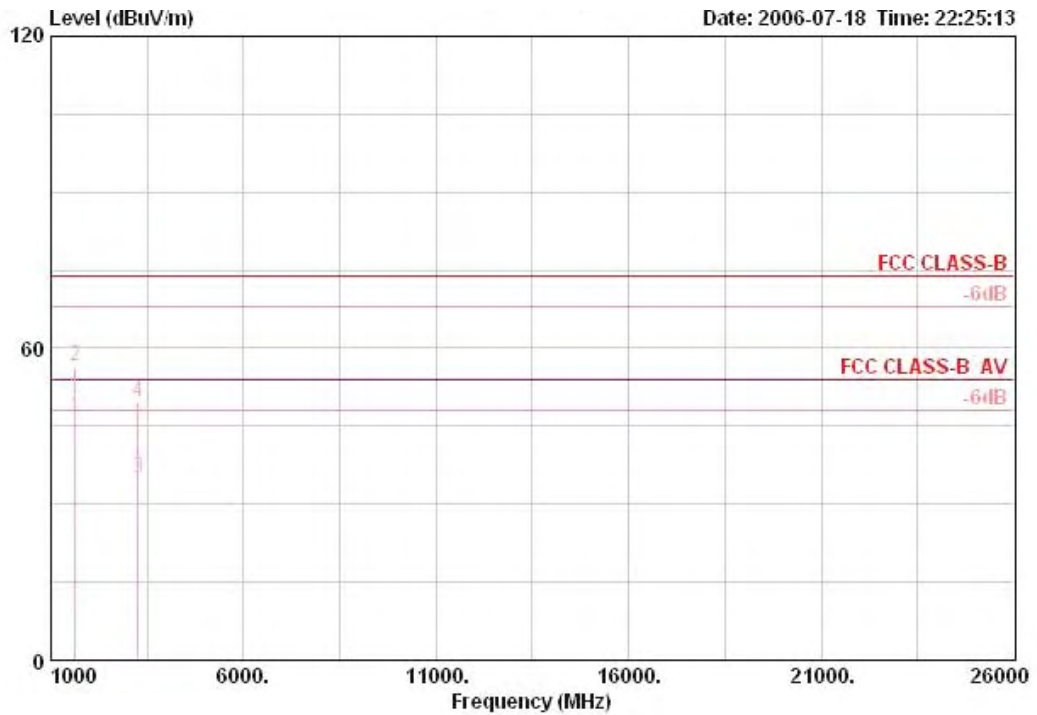
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / X-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	1624.680	32.47	-21.53	54.00	25.71		2.08	33.74	38.42	AVERAGE	100	304
2	1624.680	44.61	-29.39	74.00	25.71		2.08	33.74	50.55	PEAK	100	304
3	3249.180	48.75	-25.25	74.00	30.73		3.08	33.60	48.53	PEAK	100	330
4	3249.320	36.45	-17.55	54.00	30.73		3.08	33.60	36.24	AVERAGE	100	330

Horizontal

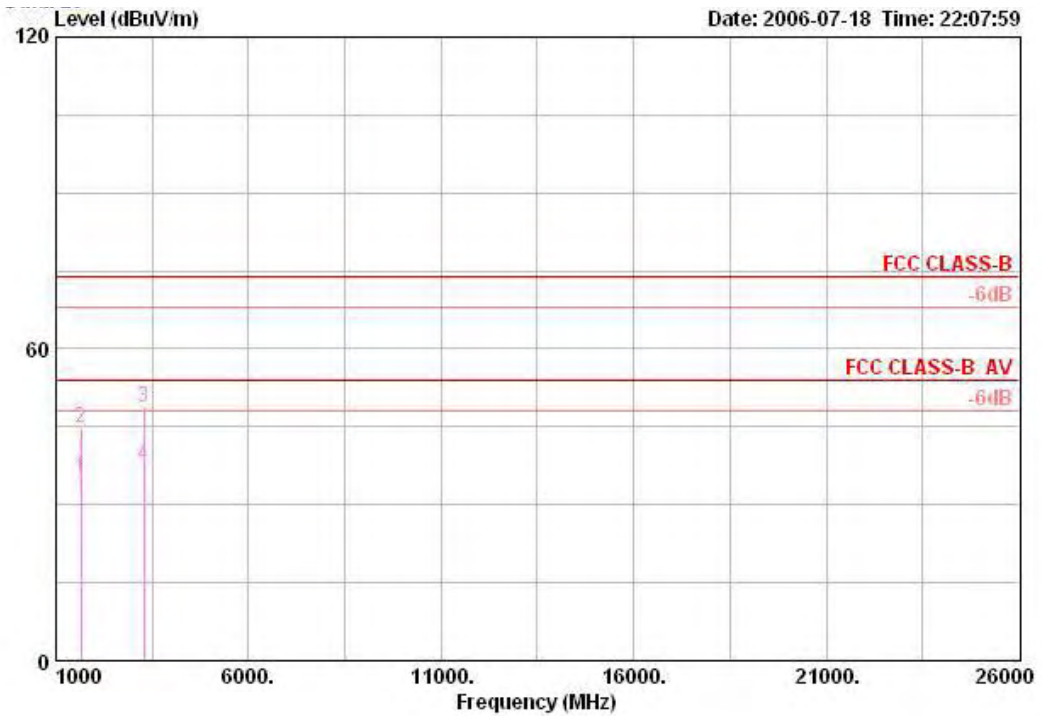


	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	1624.680	46.81	-7.19	54.00	25.71		2.08	33.74	52.76	AVERAGE	109	61
2	1624.680	56.43	-17.57	74.00	25.71		2.08	33.74	62.38	PEAK	109	61
3	3249.180	34.83	-19.17	54.00	30.73		3.08	33.60	34.61	AVERAGE	100	237
4	3249.400	49.58	-24.42	74.00	30.73		3.08	33.60	49.37	PEAK	100	237



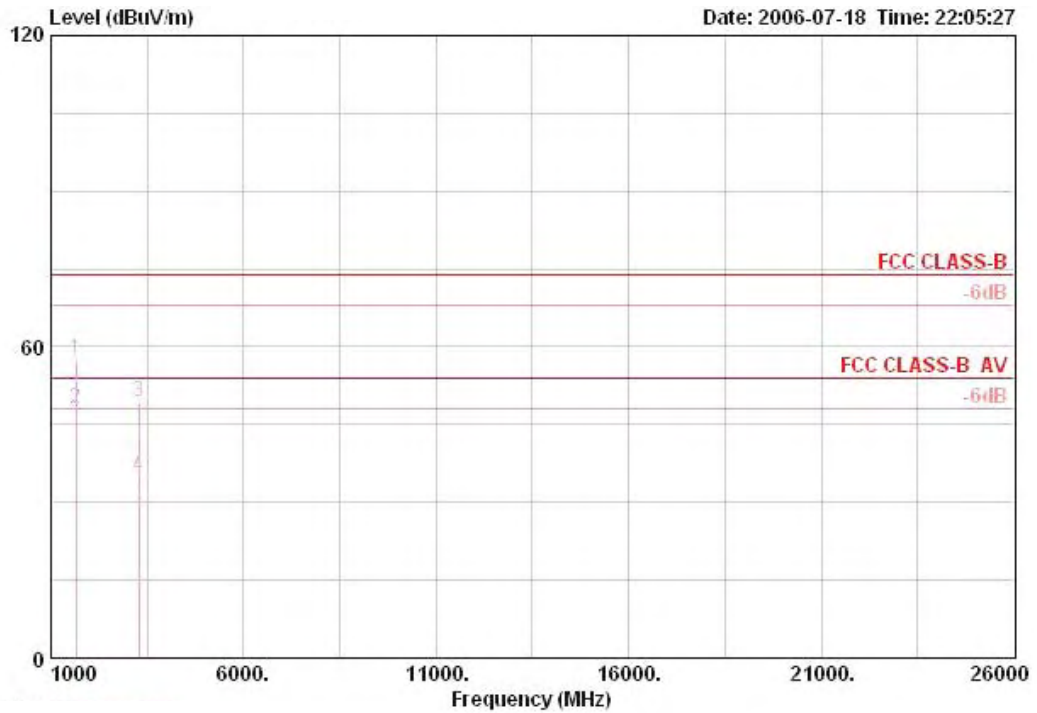
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 11 / X-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dB/m		dB	dB	dBUV		cm	deg
1	1641.360	35.01	-18.99	54.00	25.77		2.08	33.72	40.88	AVERAGE	100	283
2	1641.380	44.74	-29.26	74.00	25.77		2.08	33.72	50.61	PEAK	100	283
3	3282.580	48.60	-25.40	74.00	30.81		3.12	33.58	48.25	PEAK	100	358
4	3282.680	37.47	-16.53	54.00	30.81		3.12	33.58	37.13	AVERAGE	100	358

Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dB	dBuV		cm	deg
1	1641.280	57.66	-16.34	74.00	25.77	2.08	33.72	63.53	PEAK		104	62
2	1641.340	47.92	-6.08	54.00	25.77	2.08	33.72	53.79	AVERAGE		104	62
3	3282.540	49.42	-24.58	74.00	30.81	3.12	33.58	49.07	PEAK		100	122
4	3282.660	34.97	-19.03	54.00	30.81	3.12	33.58	34.62	AVERAGE		100	122

Note:

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

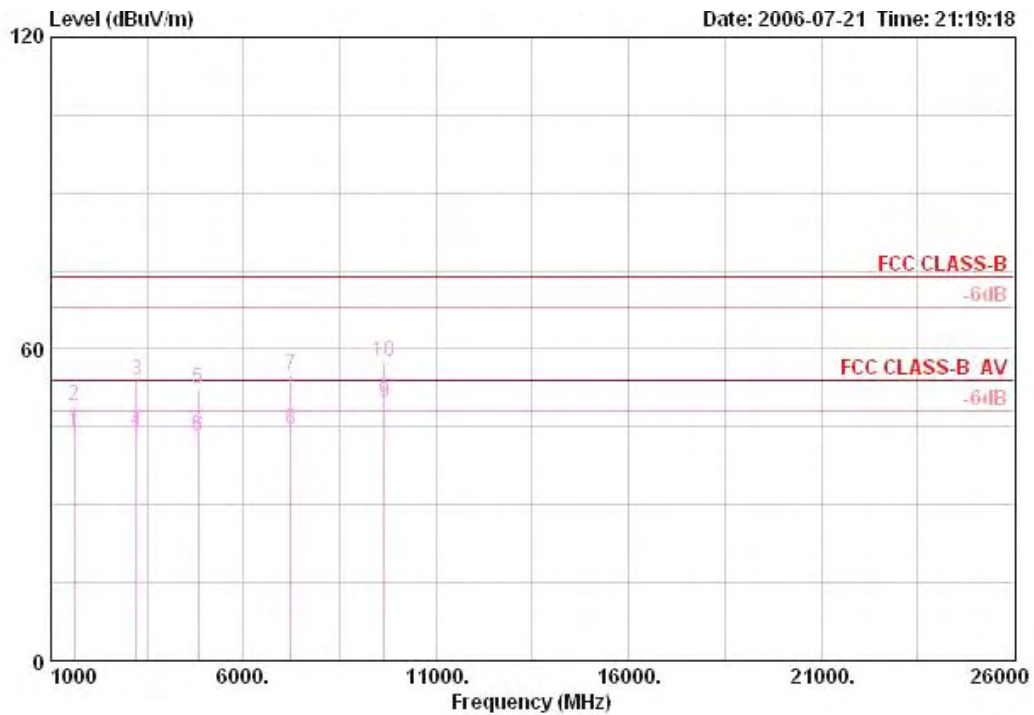
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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



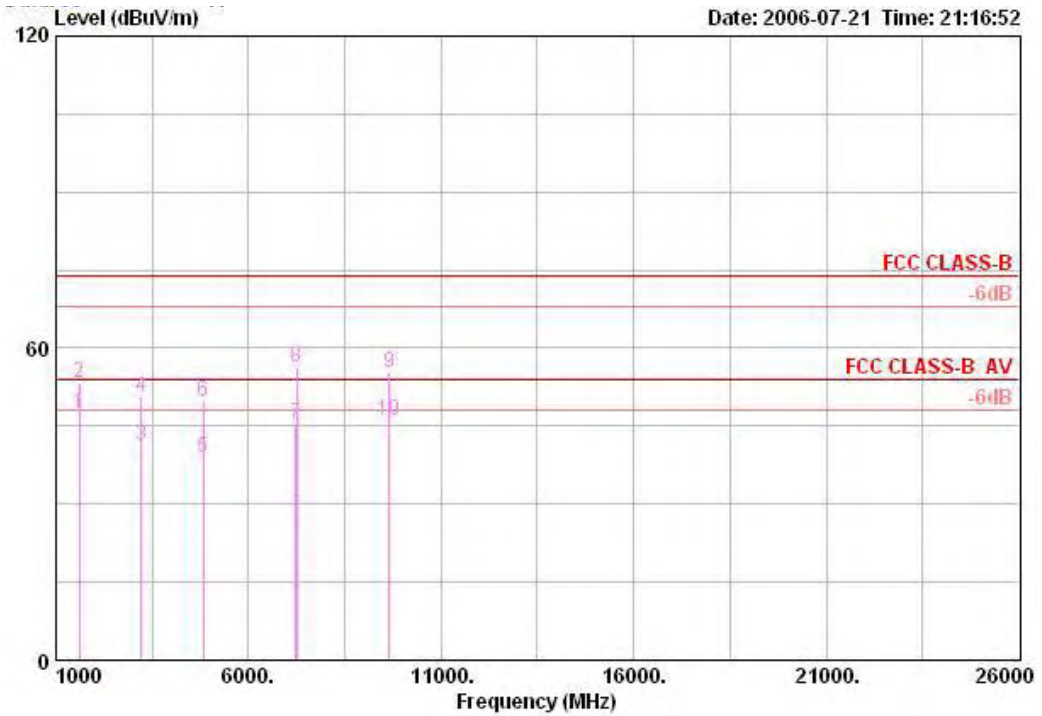
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 1 / Y-Axis

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	1607.940	43.79	-10.21	54.00	25.64		2.08	33.74	49.80	AVERAGE	109	100
2	1608.100	49.05	-24.95	74.00	25.64		2.08	33.74	55.07	PEAK	109	100
3	3215.980	54.03	-19.97	74.00	30.66		3.05	33.61	53.93	PEAK	100	256
4	3216.000	44.14	-9.86	54.00	30.66		3.05	33.61	44.05	AVERAGE	100	256
5	4823.960	52.44	-21.56	74.00	33.22		4.68	33.24	47.77	PEAK	110	254
6	4824.100	43.09	-10.91	54.00	33.22		4.68	33.24	38.43	AVERAGE	110	254
7	7236.100	54.83	-19.17	74.00	36.08		5.31	33.40	46.84	PEAK	100	-19
8	7236.900	44.35	-9.65	54.00	36.08		5.31	33.40	36.36	AVERAGE	100	-19
9 !	9648.060	49.61	-4.39	54.00	38.42		5.37	33.84	39.67	AVERAGE	100	247
10	9648.200	57.57	-16.43	74.00	38.42		5.37	33.84	47.62	PEAK	100	247

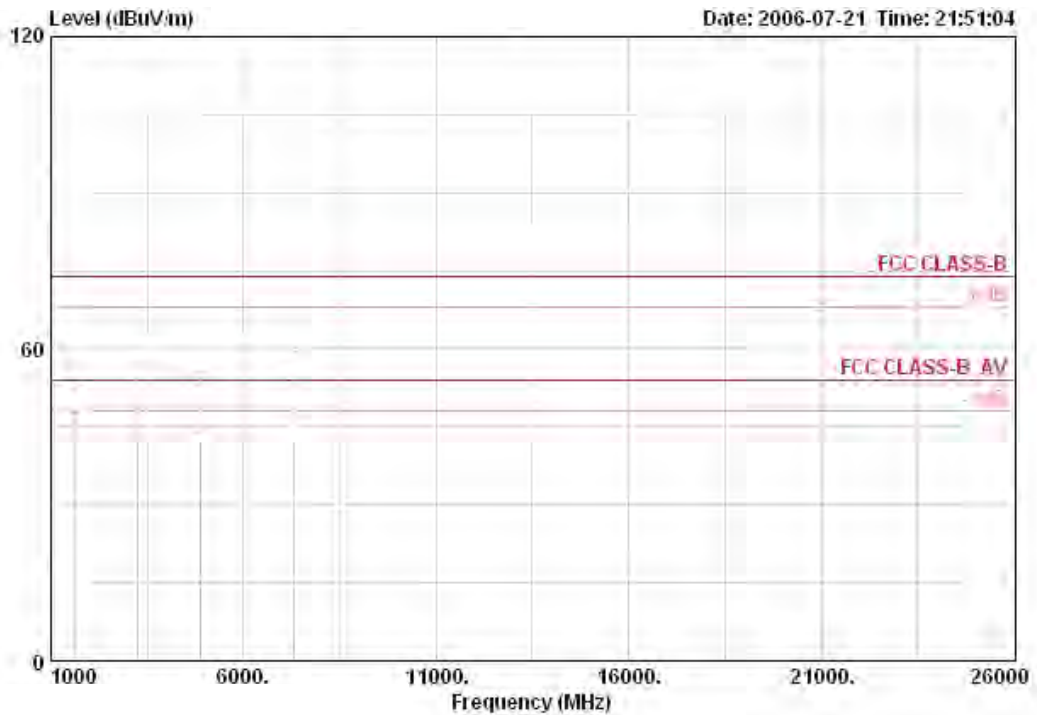
Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	1607.920	47.41	-6.59	54.00	25.64	2.08	33.74	53.42	AVERAGE		110	85
2	1608.100	53.28	-20.72	74.00	25.64	2.08	33.74	59.29	PEAK		110	85
3	3216.000	41.35	-12.65	54.00	30.66	3.05	33.61	41.26	AVERAGE		100	263
4	3216.040	50.66	-23.34	74.00	30.66	3.05	33.61	50.57	PEAK		100	263
5	4824.020	38.95	-15.05	54.00	33.22	4.68	33.24	34.29	AVERAGE		100	204
6	4824.160	49.57	-24.43	74.00	33.22	4.68	33.24	44.91	PEAK		100	204
7	7235.200	45.45	-8.55	54.00	36.08	5.31	33.40	37.47	AVERAGE		145	179
8	7239.360	56.08	-17.92	74.00	36.08	5.31	33.40	48.09	PEAK		145	179
9	9647.920	55.38	-18.62	74.00	38.42	5.37	33.84	45.43	PEAK		150	299
10	9648.060	45.99	-8.01	54.00	38.42	5.37	33.84	36.04	AVERAGE		150	299

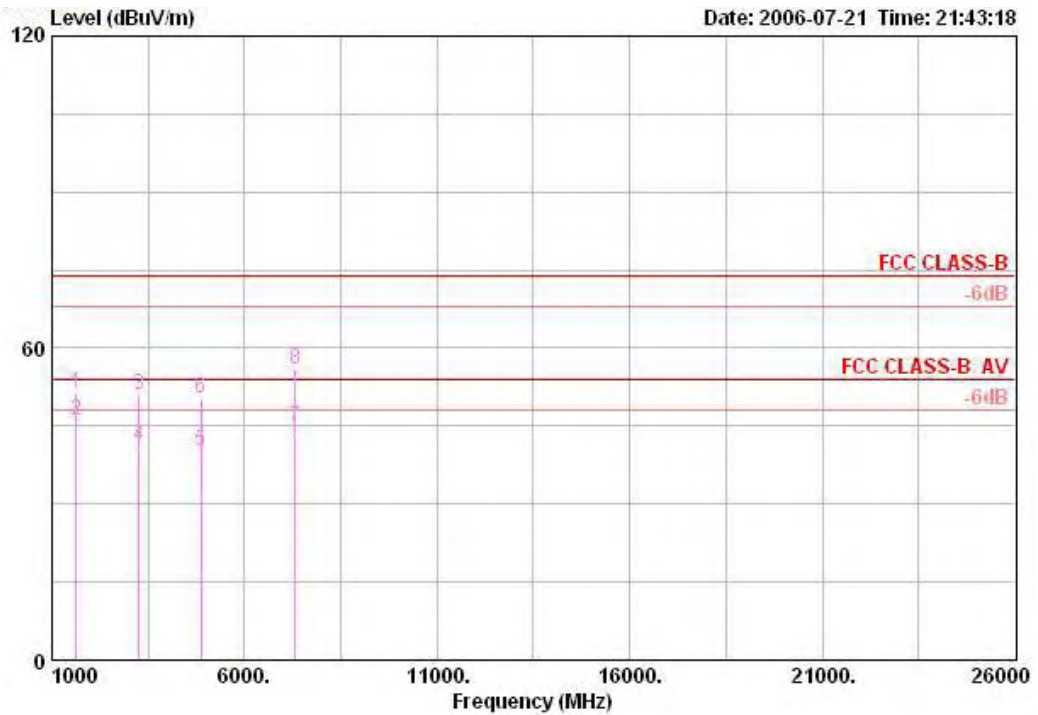
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 6 / Y-Axis

Vertical



	Freq	Level	Over Limit	Antenna Line	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg
1	1624.640	48.72	-25.28	74.00	25.71	2.08	33.74	54.67	116	81
2	1624.720	43.71	-10.29	54.00	25.71	2.08	33.74	49.65	116	81
3	3249.120	45.31	-8.69	54.00	30.73	3.08	33.60	45.10	100	258
4	3249.220	54.52	-19.48	74.00	30.73	3.08	33.60	54.30	100	258
5	4873.840	51.63	-22.37	74.00	33.33	4.69	33.23	46.83	100	280
6	4874.020	42.60	-11.40	54.00	33.33	4.69	33.23	37.80	100	280
7	7314.200	55.47	-18.53	74.00	36.24	5.39	33.43	47.26	100	214
8	7314.200	44.53	-9.47	54.00	36.24	5.39	33.43	36.32	100	214

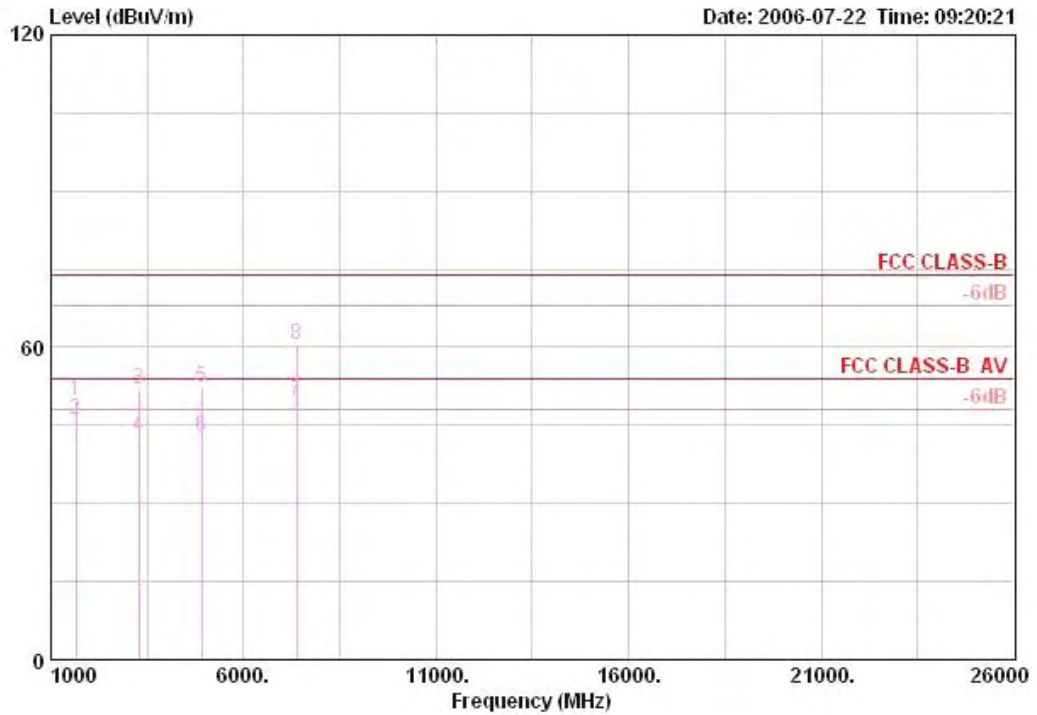
Horizontal



	Freq	Level	Over Limit	Antenna Line	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg
1	1624.600	51.43	-22.57	74.00	25.71	2.08	33.74	57.37	100	272
2	1624.640	46.02	-7.98	54.00	25.71	2.08	33.74	51.97	100	272
3	3249.280	51.07	-22.93	74.00	30.73	3.08	33.60	50.86	100	263
4	3249.400	41.29	-12.71	54.00	30.73	3.08	33.60	41.07	100	263
5	4873.840	40.33	-13.67	54.00	33.33	4.69	33.23	35.52	100	-94
6	4873.880	50.41	-23.59	74.00	33.33	4.69	33.23	45.61	100	-94
7	7314.080	44.70	-9.30	54.00	36.24	5.39	33.43	36.49	100	-21
8	7314.960	55.85	-18.15	74.00	36.24	5.39	33.43	47.64	100	-21

Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 11 / Y-Axis

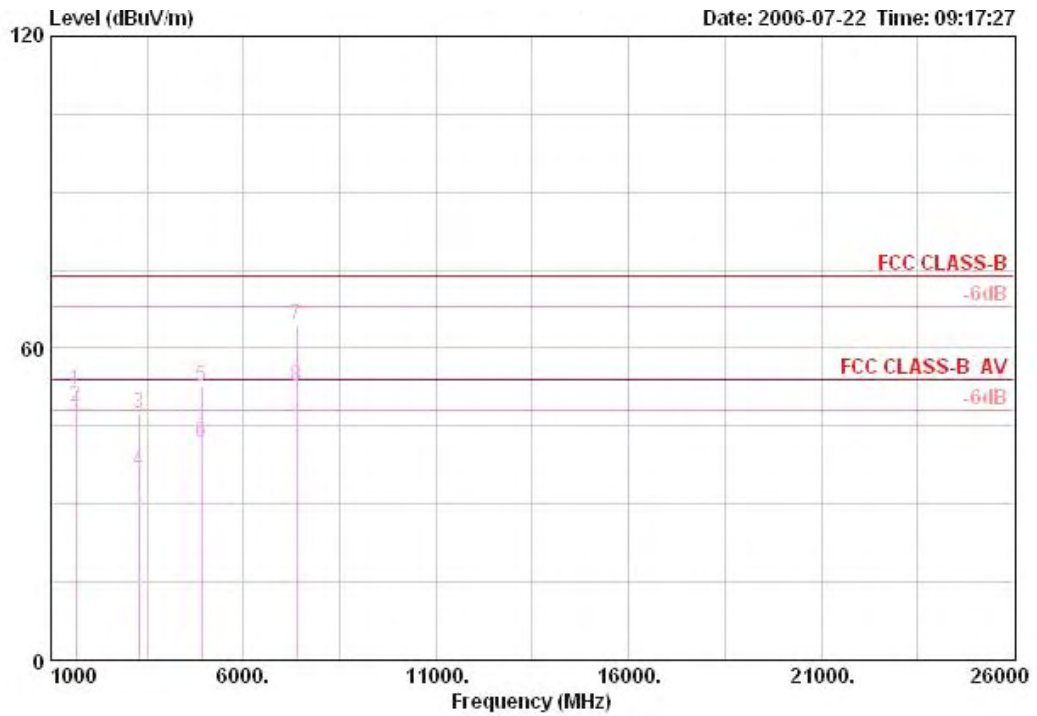
Vertical



	Freq	Level	Over Limit	Antenna Line	Antenna Factor	Cable Loss	Preamp Gain	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	1641.300	49.64	-24.36	74.00	25.77	2.08	33.72	55.51	PEAK	110	260
2	1641.340	46.25	-7.75	54.00	25.77	2.08	33.72	52.12	AVERAGE	110	260
3	3282.640	51.88	-22.12	74.00	30.81	3.12	33.58	51.54	PEAK	100	98
4	3282.820	42.81	-11.19	54.00	30.81	3.12	33.58	42.47	AVERAGE	100	98
5	4923.940	52.35	-21.65	74.00	33.45	4.73	33.22	47.39	PEAK	127	91
6	4923.980	42.89	-11.11	54.00	33.45	4.73	33.22	37.93	AVERAGE	127	91
7 !	7386.640	49.83	-4.17	54.00	36.45	5.48	33.45	41.35	AVERAGE	100	349
8	7386.960	60.51	-13.49	74.00	36.45	5.48	33.45	52.03	PEAK	100	349



Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1	1641.340	52.14	-21.86	74.00	25.77	2.08	33.72	58.01	PEAK		100	298
2 !	1641.360	48.60	-5.40	54.00	25.77	2.08	33.72	54.47	AVERAGE		100	298
3	3282.660	47.45	-26.55	74.00	30.81	3.12	33.58	47.10	PEAK		100	300
4	3282.700	36.18	-17.82	54.00	30.81	3.12	33.58	35.83	AVERAGE		100	300
5	4923.920	52.59	-21.41	74.00	33.45	4.73	33.22	47.63	PEAK		148	48
6	4923.980	41.82	-12.18	54.00	33.45	4.73	33.22	36.86	AVERAGE		148	48
7	7389.280	64.38	-9.62	74.00	36.45	5.48	33.46	55.90	PEAK		169	16
8 !	7389.320	52.64	-1.36	54.00	36.45	5.48	33.46	44.17	AVERAGE		169	16