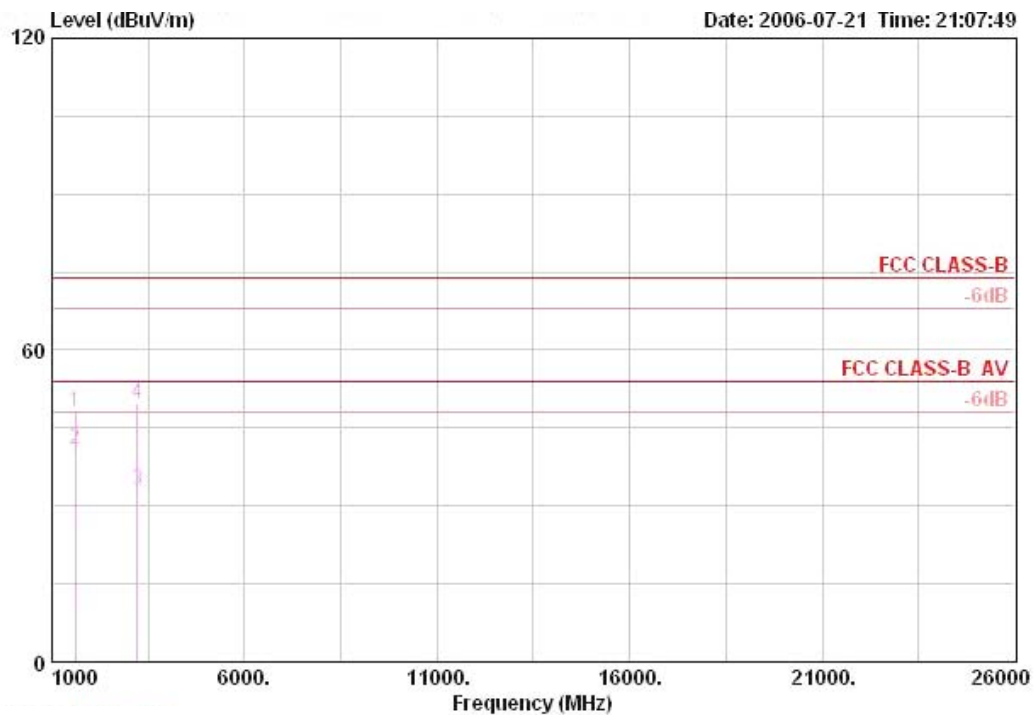


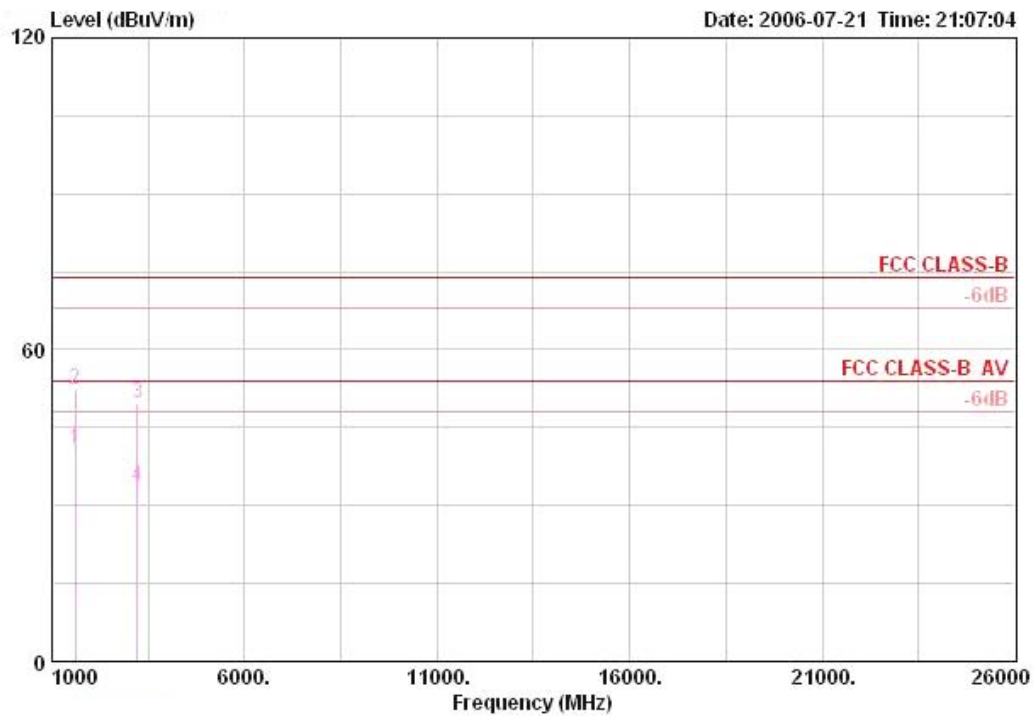
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 1 / Y-Axis

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	1608.000	48.16	-25.84	74.00	25.64	2.08	33.74	54.17	PEAK	105	343
2	1608.020	40.81	-13.19	54.00	25.64	2.08	33.74	46.82	AVERAGE	105	343
3	3215.920	32.96	-21.04	54.00	30.66	3.05	33.61	32.87	AVERAGE	100	0
4	3215.920	49.66	-24.34	74.00	30.66	3.05	33.61	49.57	PEAK	100	0

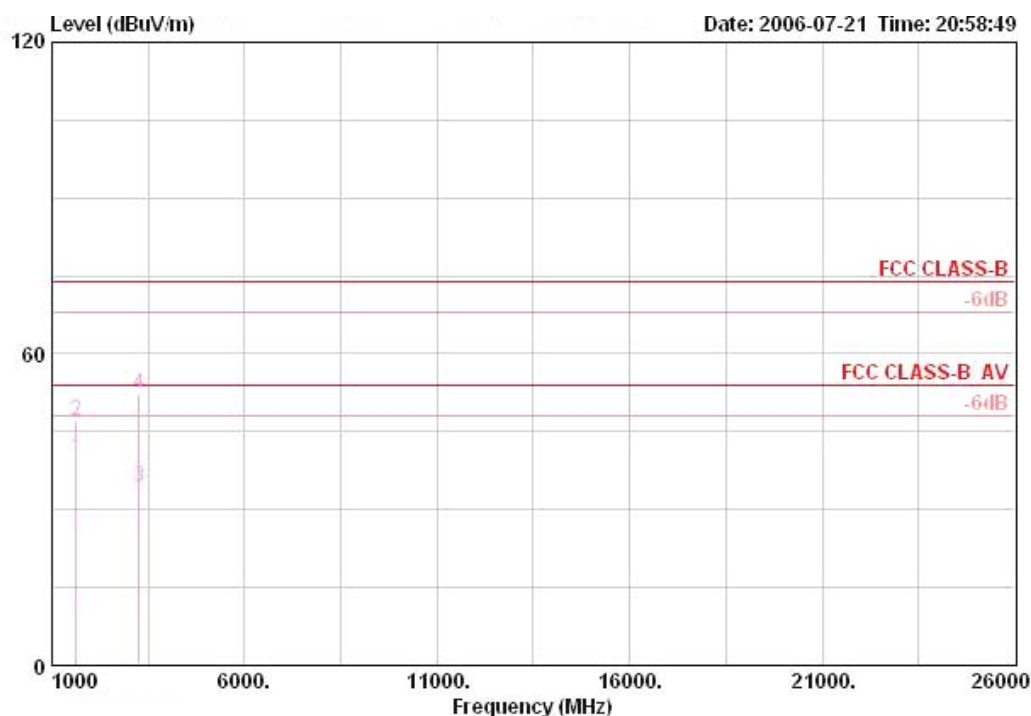
Horizontal



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		Ant	Table
	MHz	dBUV/m	Limit	Line	Factor	Loss	Factor	Level	Remark	Pos	Pos
	MHz	dBUV/m	dB	dBUV/m	dB/m	dB	dB	dBUV		cm	deg
1	1608.040	40.76	-13.24	54.00	25.64	2.08	33.74	46.77	AVERAGE	100	93
2	1608.140	52.27	-21.73	74.00	25.64	2.08	33.74	58.28	PEAK	100	93
3	3215.920	49.55	-24.45	74.00	30.66	3.05	33.61	49.46	PEAK	100	51
4	3215.980	33.65	-20.35	54.00	30.66	3.05	33.61	33.56	AVERAGE	100	51

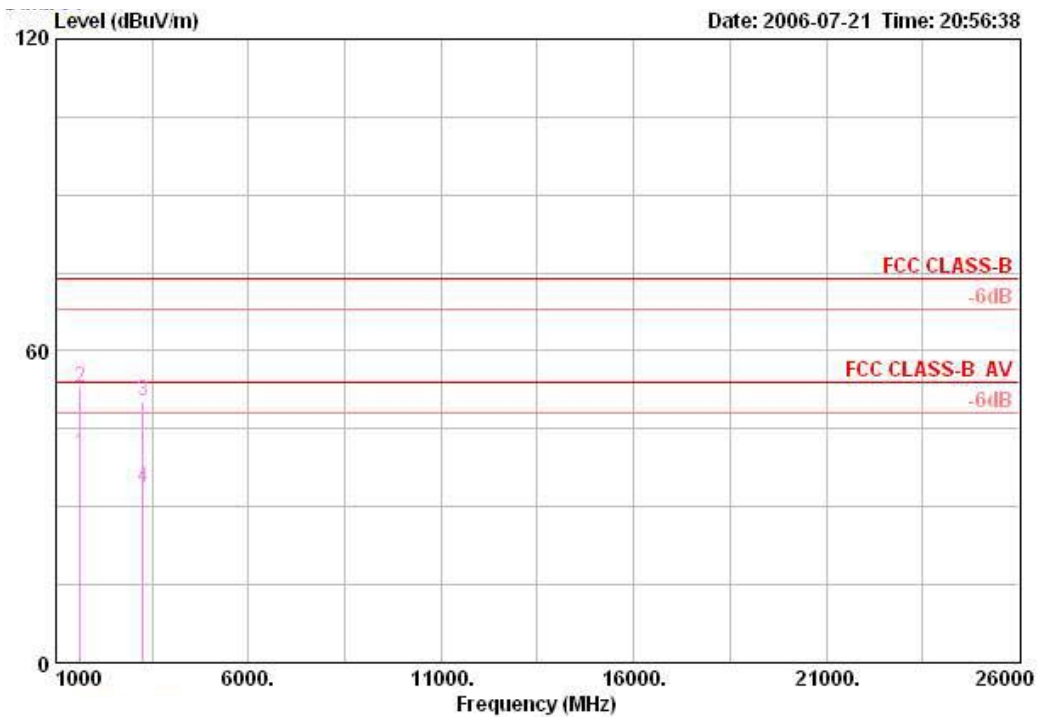
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / Y-Axis

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	1624.660	39.78	-14.22	54.00	25.71	2.08	33.74	45.73	AVERAGE	106	14
2	1624.880	47.15	-26.85	74.00	25.71	2.08	33.72	53.08	PEAK	106	14
3	3249.340	34.21	-19.79	54.00	30.73	3.08	33.60	34.00	AVERAGE	100	326
4	3249.360	52.27	-21.73	74.00	30.73	3.08	33.60	52.05	PEAK	100	326

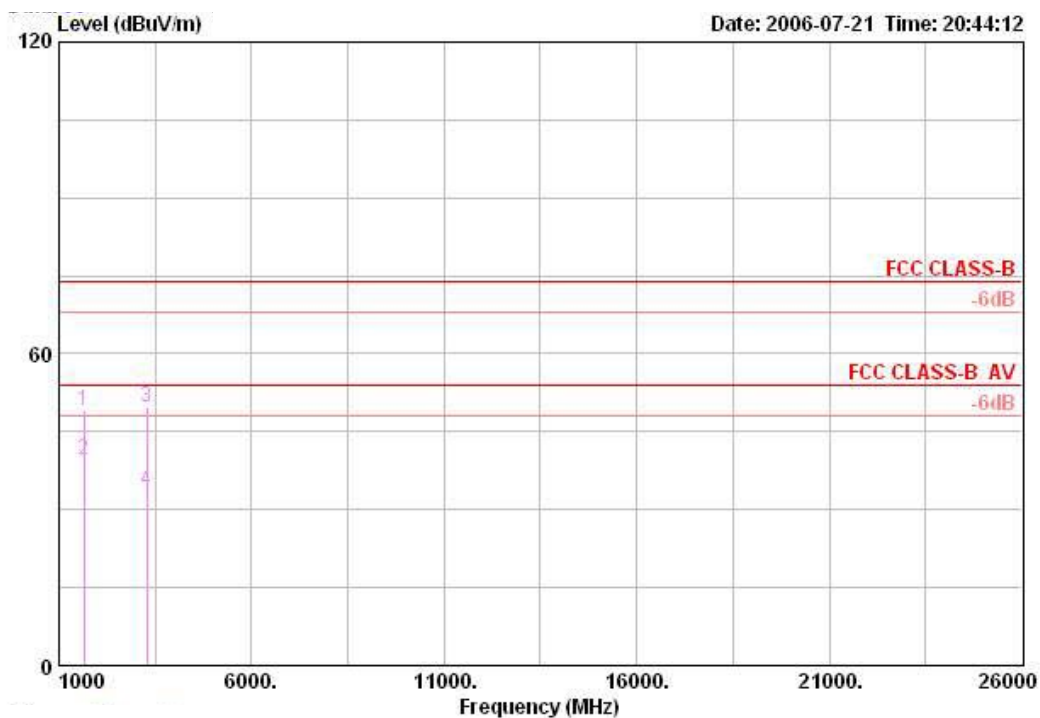
Horizontal



	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	40.19	-13.81	54.00	25.71	2.08	33.74	46.14	AVERAGE	100	298
2	1624.800	52.90	-21.10	74.00	25.71	2.08	33.72	58.83	PEAK	100	298
3	3249.340	50.46	-23.54	74.00	30.73	3.08	33.60	50.24	PEAK	100	260
4	3249.360	33.71	-20.29	54.00	30.73	3.08	33.60	33.50	AVERAGE	100	260

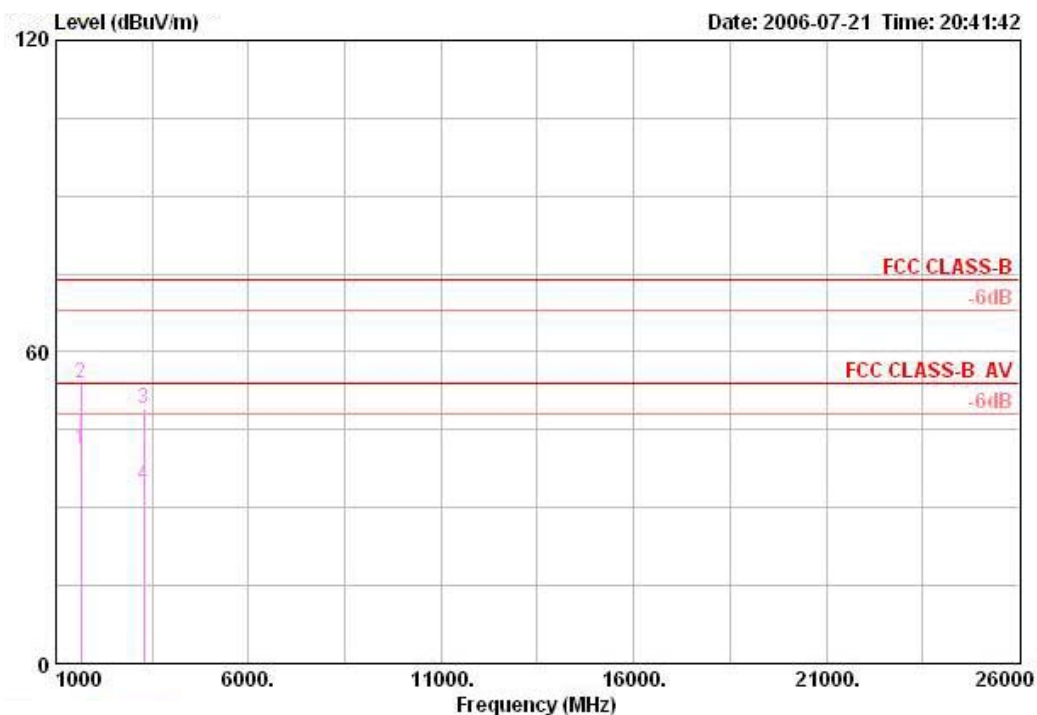
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 11 / Y-Axis

Vertical



	Freq	Level	Over 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	dBuV		cm	deg
1	1641.300	48.98	-25.02	74.00	25.77	2.08	33.72	54.85	PEAK	100	81
2	1641.380	39.50	-14.50	54.00	25.77	2.08	33.72	45.37	AVERAGE	100	81
3	3282.560	49.75	-24.25	74.00	30.81	3.12	33.58	49.40	PEAK	100	255
4	3282.680	33.83	-20.17	54.00	30.81	3.12	33.58	33.48	AVERAGE	100	255

Horizontal



	Freq	Level	Over 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	41.34	-12.66	54.00	25.77	2.08	33.72	47.21 AVERAGE	100	81
2	1641.460	53.88	-20.12	74.00	25.77	2.08	33.72	59.74 PEAK	100	81
3	3282.680	48.91	-25.09	74.00	30.81	3.12	33.58	48.56 PEAK	110	113
4	3282.740	34.41	-19.59	54.00	30.81	3.12	33.58	34.07 AVERAGE	110	113

Note:

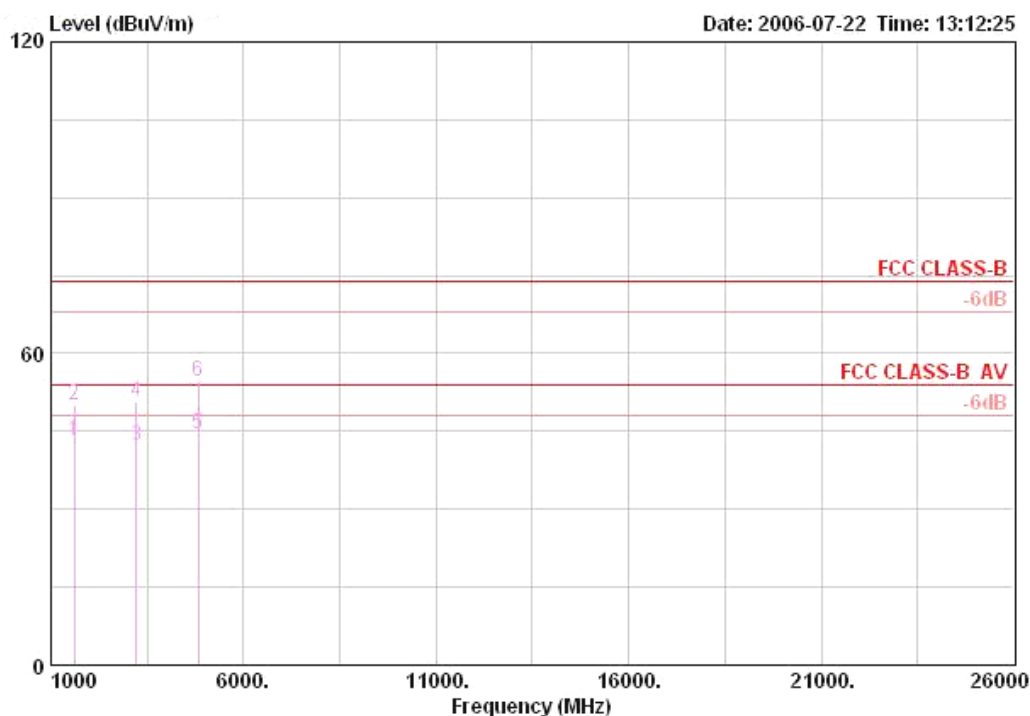
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

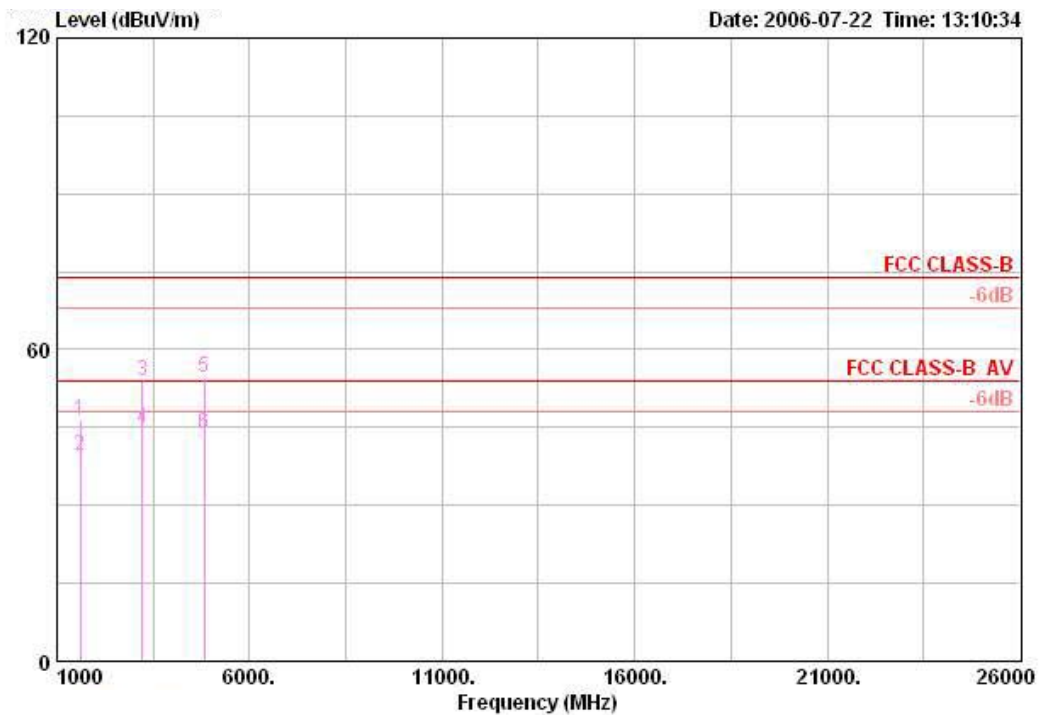
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 1 / Z-Axis

Vertical



	Freq	Level	Over 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	dBUV		cm	deg
1	1607.960	43.12	-10.88	54.00	25.64	2.08	33.74	49.13	AVERAGE	100	275
2	1608.040	50.17	-23.83	74.00	25.64	2.08	33.74	56.18	PEAK	100	275
3	3215.940	42.22	-11.78	54.00	30.66	3.05	33.61	42.12	AVERAGE	100	55
4	3215.980	50.84	-23.16	74.00	30.66	3.05	33.61	50.75	PEAK	100	55
5	4823.940	44.55	-9.45	54.00	33.22	4.68	33.24	39.89	AVERAGE	115	144
6	4824.080	54.62	-19.38	74.00	33.22	4.68	33.24	49.96	PEAK	115	144

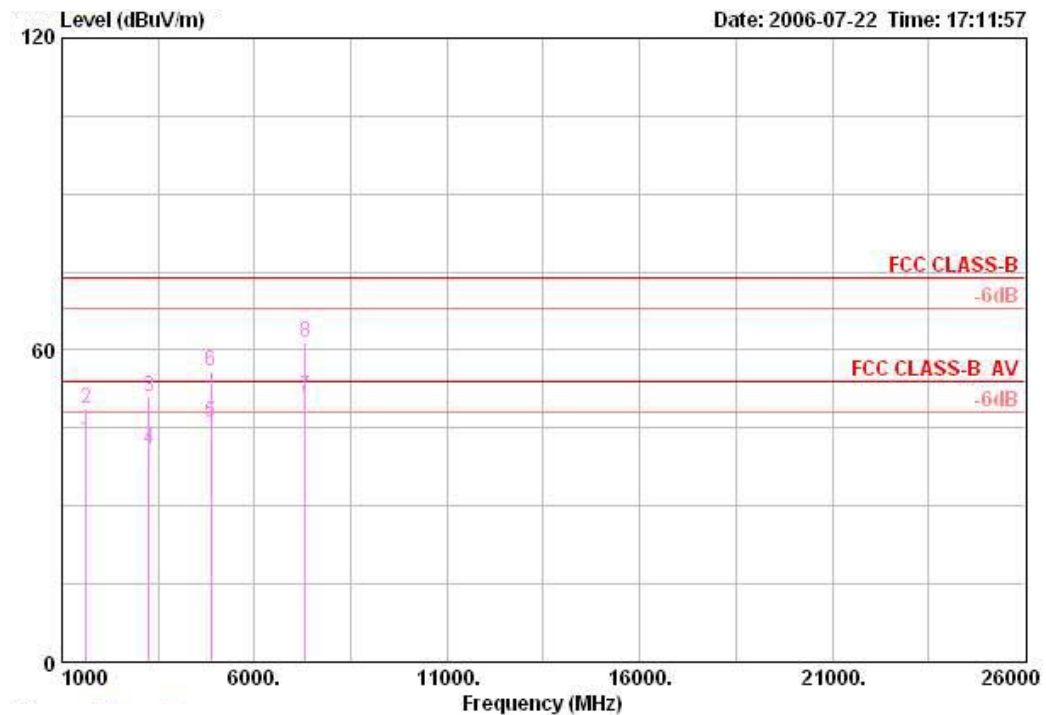
Horizontal



	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	1607.960	46.40	-27.60	74.00	25.64	2.08	33.74	52.41 PEAK	100	11
2	1608.000	39.44	-14.56	54.00	25.64	2.08	33.74	45.45 AVERAGE	100	11
3	3216.120	54.06	-19.94	74.00	30.66	3.05	33.61	53.97 PEAK	159	194
4	3216.200	44.86	-9.14	54.00	30.66	3.05	33.61	44.76 AVERAGE	159	194
5	4823.920	54.70	-19.30	74.00	33.22	4.68	33.24	50.04 PEAK	114	188
6	4824.020	43.67	-10.33	54.00	33.22	4.68	33.24	39.01 AVERAGE	114	188

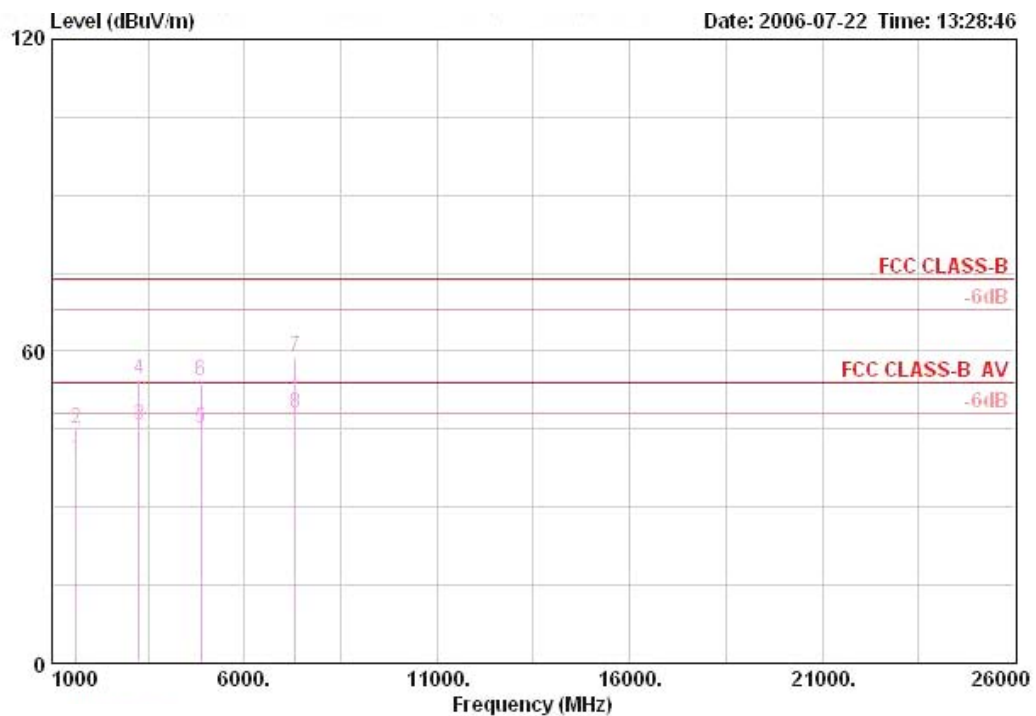
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 6 / Z-Axis

Vertical



	Freq	Level	Over 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	1624.580	42.60	-11.40	54.00	25.71	2.08	33.74	48.55	AVERAGE	100	258
2	1624.820	48.72	-25.28	74.00	25.71	2.08	33.72	54.65	PEAK	100	258
3	3249.240	51.01	-22.99	74.00	30.73	3.08	33.60	50.79	PEAK	100	96
4	3249.460	40.96	-13.04	54.00	30.73	3.08	33.60	40.75	AVERAGE	100	96
5	4874.000	46.25	-7.75	54.00	33.33	4.69	33.23	41.45	AVERAGE	100	142
6	4874.100	55.88	-18.12	74.00	33.33	4.69	33.23	51.08	PEAK	100	142
7 !	7311.720	50.89	-3.11	54.00	36.24	5.39	33.43	42.68	AVERAGE	123	166
8	7312.080	61.61	-12.39	74.00	36.24	5.39	33.43	53.40	PEAK	123	166

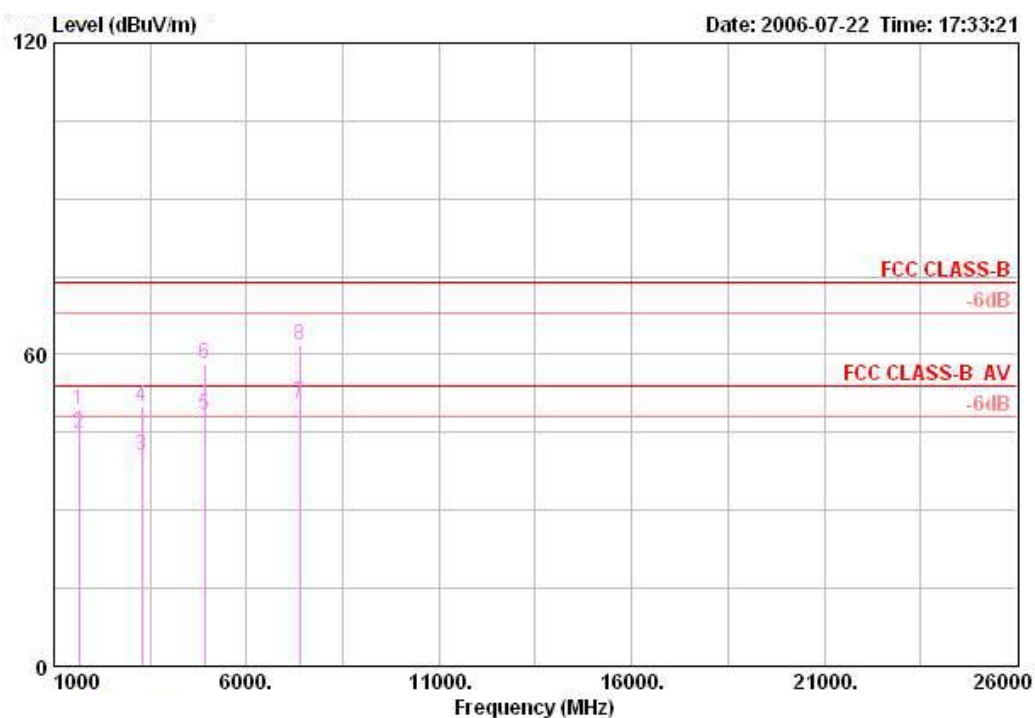
Horizontal



	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	1624.760	39.22	-14.78	54.00	25.71	2.08	33.72	45.15	AVERAGE	100	139
2	1624.760	45.15	-28.85	74.00	25.71	2.08	33.72	51.09	PEAK	100	139
3	3249.200	45.65	-8.35	54.00	30.73	3.08	33.60	45.43	AVERAGE	140	194
4	3249.360	54.47	-19.53	74.00	30.73	3.08	33.60	54.26	PEAK	140	194
5	4873.940	44.99	-9.01	54.00	33.33	4.69	33.23	40.19	AVERAGE	100	192
6	4874.060	54.30	-19.70	74.00	33.33	4.69	33.23	49.50	PEAK	100	192
7	7313.360	58.88	-15.12	74.00	36.24	5.39	33.43	50.67	PEAK	169	268
8 !	7313.880	48.16	-5.84	54.00	36.24	5.39	33.43	39.95	AVERAGE	169	268

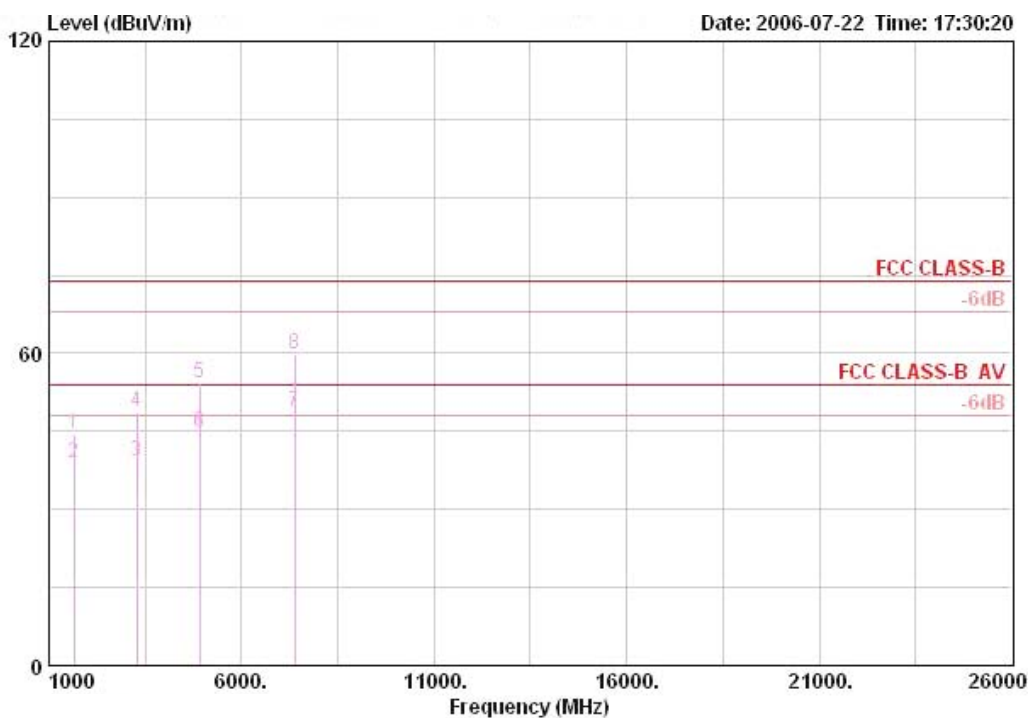
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 11 / Z-Axis

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	1641.280	49.26	-24.74	74.00	25.77	2.08	33.72	55.13	100	16
2	1641.320	44.73	-9.27	54.00	25.77	2.08	33.72	50.60	100	16
3	3282.480	40.42	-13.58	54.00	30.81	3.12	33.58	40.08	100	96
4	3282.620	49.88	-24.12	74.00	30.81	3.12	33.58	49.53	100	96
5 !	4923.960	48.48	-5.52	54.00	33.45	4.73	33.22	43.52	100	139
6	4924.080	58.29	-15.71	74.00	33.45	4.73	33.22	53.33	100	139
7 !	7383.720	50.67	-3.33	54.00	36.45	5.48	33.45	42.19	100	130
8	7383.760	61.76	-12.24	74.00	36.45	5.48	33.45	53.28	100	130

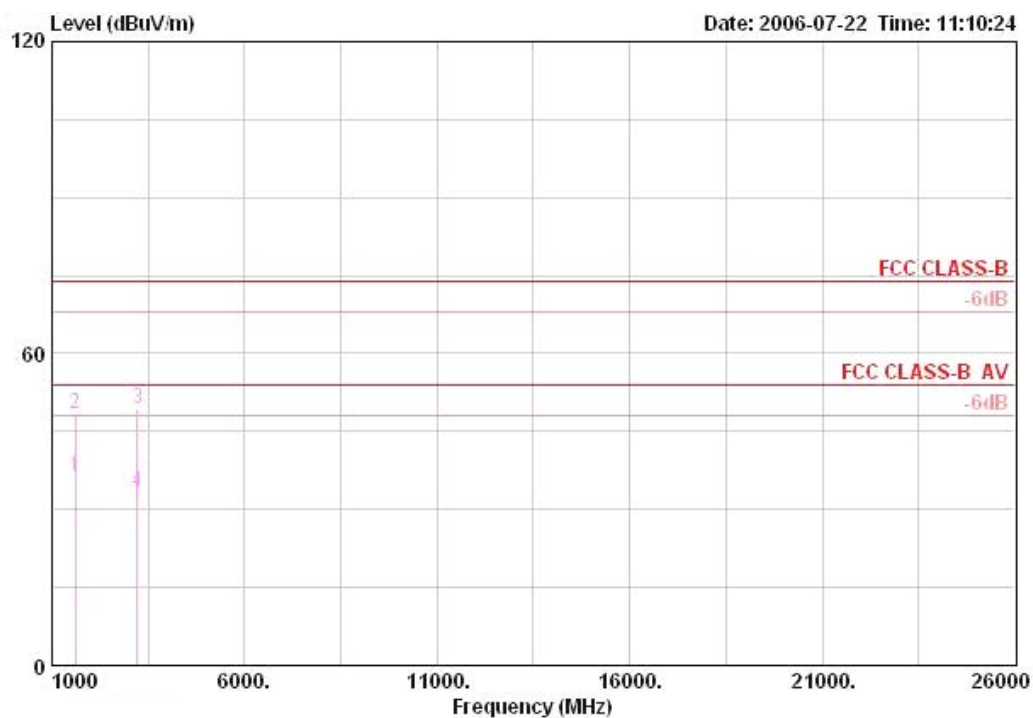
Horizontal



	Freq	Level	Over 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	dBuV		cm	deg
1	1641.440	44.59	-29.41	74.00	25.77	2.08	33.72	50.46	PEAK	100	305
2	1641.500	38.85	-15.15	54.00	25.77	2.08	33.72	44.72	AVERAGE	100	305
3	3282.780	39.16	-14.84	54.00	30.81	3.12	33.58	38.82	AVERAGE	100	208
4	3282.780	48.77	-25.23	74.00	30.81	3.12	33.58	48.42	PEAK	100	208
5	4923.860	54.13	-19.87	74.00	33.45	4.73	33.22	49.17	PEAK	100	187
6	4924.060	44.73	-9.27	54.00	33.45	4.73	33.22	39.77	AVERAGE	100	187
7 !	7386.760	48.87	-5.13	54.00	36.45	5.48	33.45	40.39	AVERAGE	155	271
8	7388.680	59.99	-14.01	74.00	36.45	5.48	33.46	51.52	PEAK	155	271

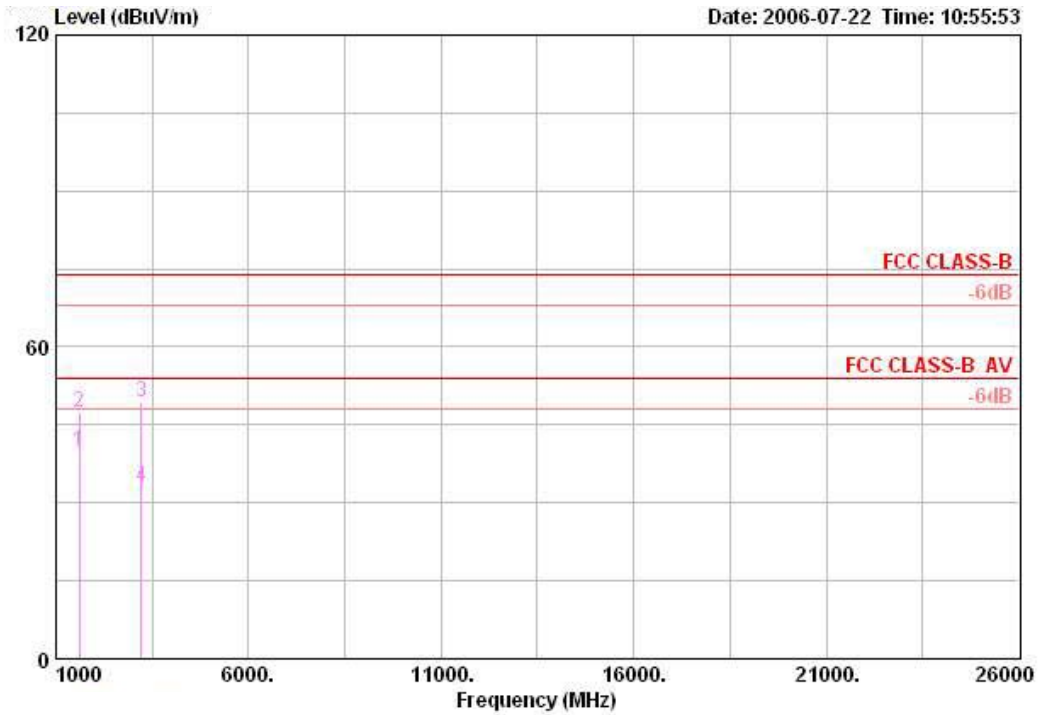
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 1 / Z-Axis

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	1608.000	36.40	-17.60	54.00	25.64	2.08	33.74	42.41	AVERAGE	100	260
2	1608.000	48.33	-25.67	74.00	25.64	2.08	33.74	54.34	PEAK	100	260
3	3216.000	49.48	-24.52	74.00	30.66	3.05	33.61	49.39	PEAK	115	126
4	3216.040	33.21	-20.79	54.00	30.66	3.05	33.61	33.12	AVERAGE	115	126

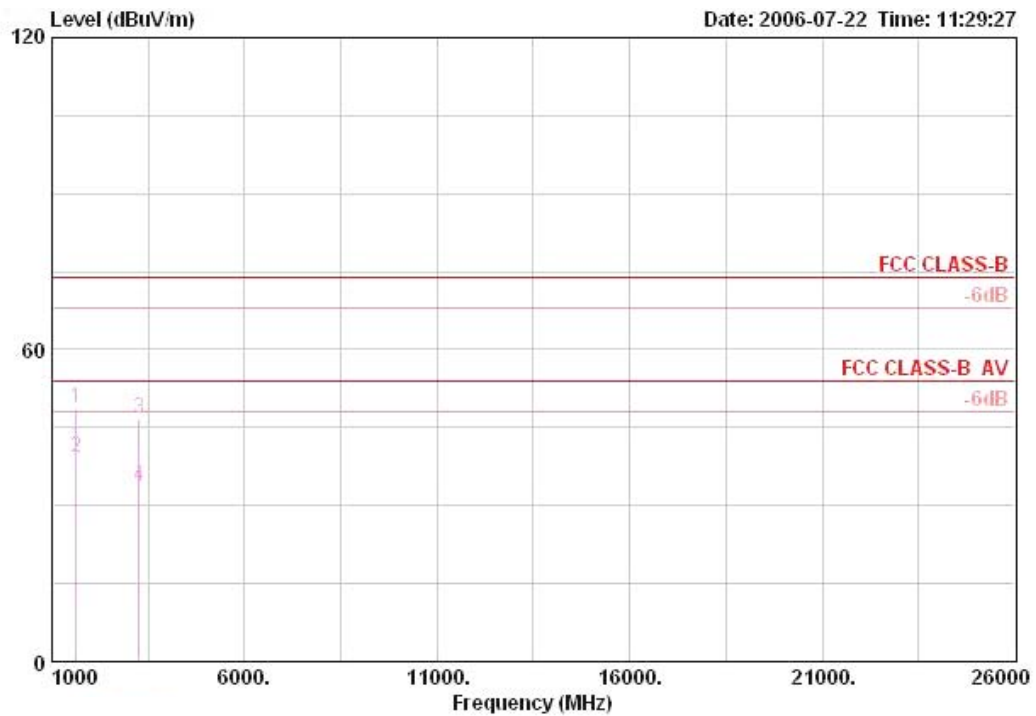
Horizontal



	Freq	Level	Over 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	dBuV		cm	deg
1	1608.020	40.04	-13.96	54.00	25.64	2.08	33.74	46.05	AVERAGE	100	241
2	1608.020	47.28	-26.72	74.00	25.64	2.08	33.74	53.29	PEAK	100	241
3	3215.980	49.41	-24.59	74.00	30.66	3.05	33.61	49.32	PEAK	100	283
4	3216.000	33.05	-20.95	54.00	30.66	3.05	33.61	32.96	AVERAGE	100	283

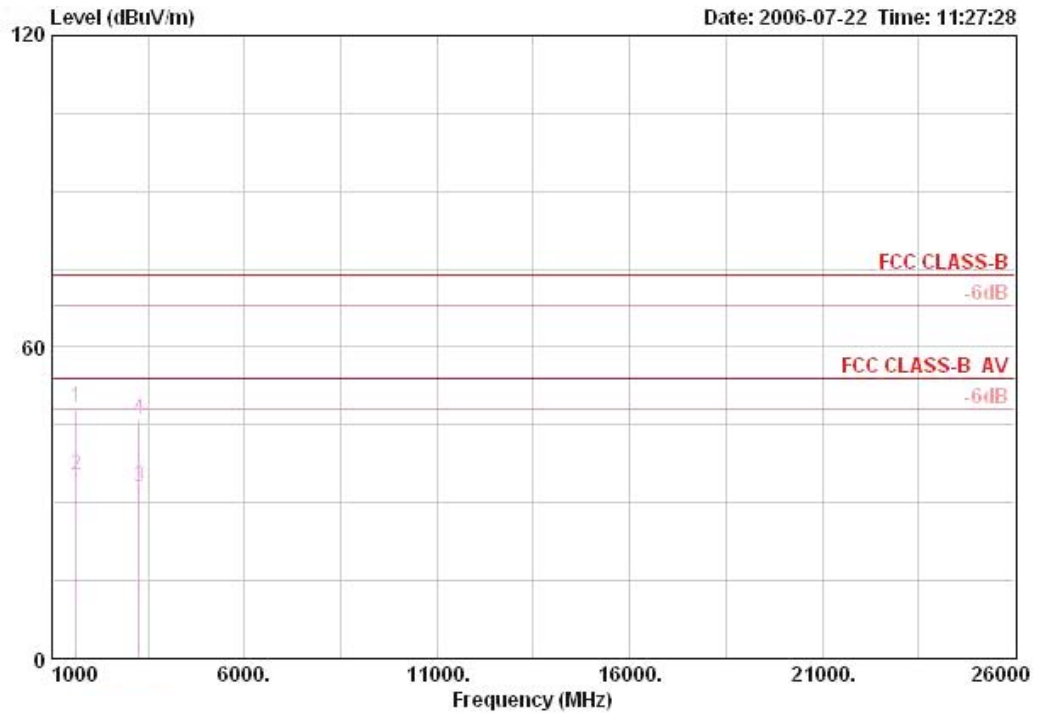
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 6 / Z-Axis

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	1624.650	48.57	-25.43	74.00	25.71	2.08	33.74	54.52	PEAK	100	102
2	1624.690	39.09	-14.91	54.00	25.71	2.08	33.74	45.04	AVERAGE	100	102
3	3249.140	46.80	-27.20	74.00	30.73	3.08	33.60	46.59	PEAK	100	359
4	3249.340	33.58	-20.42	54.00	30.73	3.08	33.60	33.36	AVERAGE	100	359

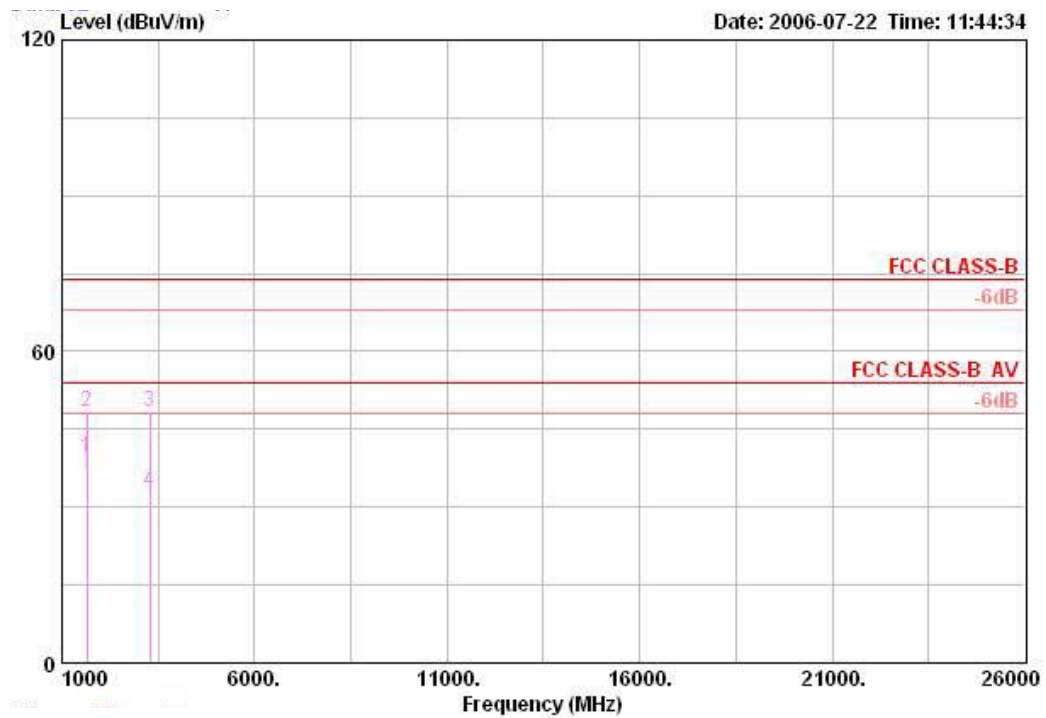
Horizontal



	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	1624.590	48.55	-25.45	74.00	25.71	2.08	33.74	54.50 PEAK	100	288
2	1624.690	35.19	-18.81	54.00	25.71	2.08	33.74	41.13 AVERAGE	100	288
3	3249.280	33.06	-20.94	54.00	30.73	3.08	33.60	32.85 AVERAGE	100	328
4	3249.520	46.05	-27.95	74.00	30.73	3.08	33.60	45.84 PEAK	100	328

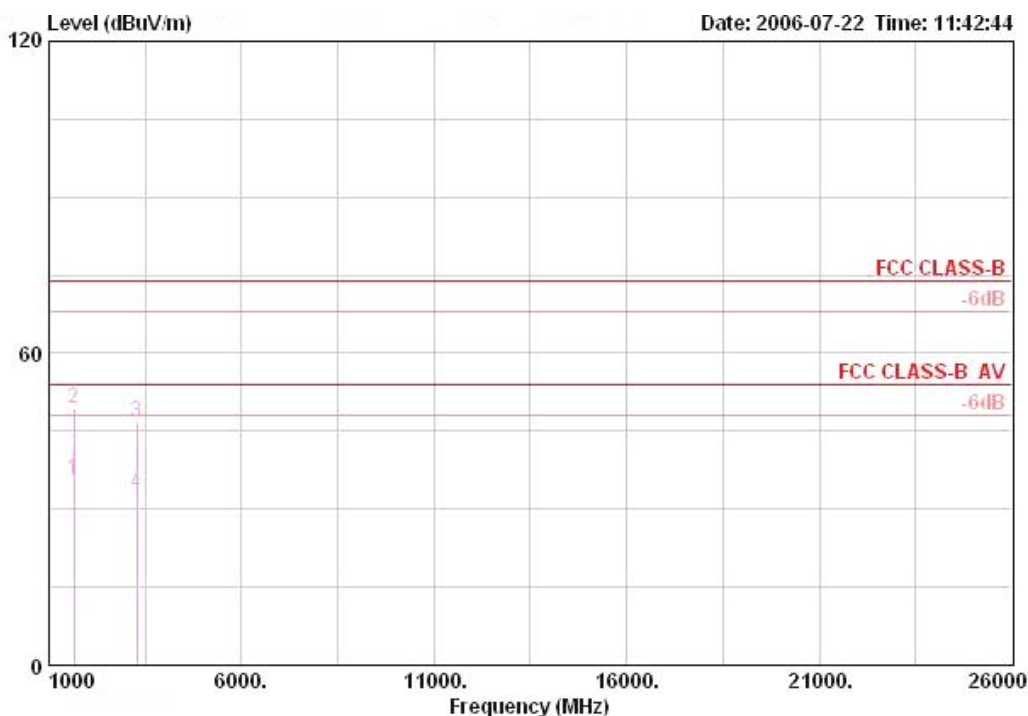
Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 11 / Z-Axis

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	1641.360	39.47	-14.53	54.00	25.77	2.08	33.72	45.33	AVERAGE	100	100
2	1641.400	48.44	-25.56	74.00	25.77	2.08	33.72	54.31	PEAK	100	100
3	3282.660	48.41	-25.59	74.00	30.81	3.12	33.58	48.06	PEAK	100	190
4	3282.760	33.14	-20.86	54.00	30.81	3.12	33.58	32.79	AVERAGE	100	190

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	1641.320	35.66	-18.34	54.00	25.77	2.08	33.72	41.53	AVERAGE	103	288
2	1641.360	49.50	-24.50	74.00	25.77	2.08	33.72	55.37	PEAK	103	288
3	3282.580	46.78	-27.22	74.00	30.81	3.12	33.58	46.44	PEAK	128	12
4	3282.660	32.99	-21.01	54.00	30.81	3.12	33.58	32.65	AVERAGE	128	12

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.

4.6. 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 / 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.

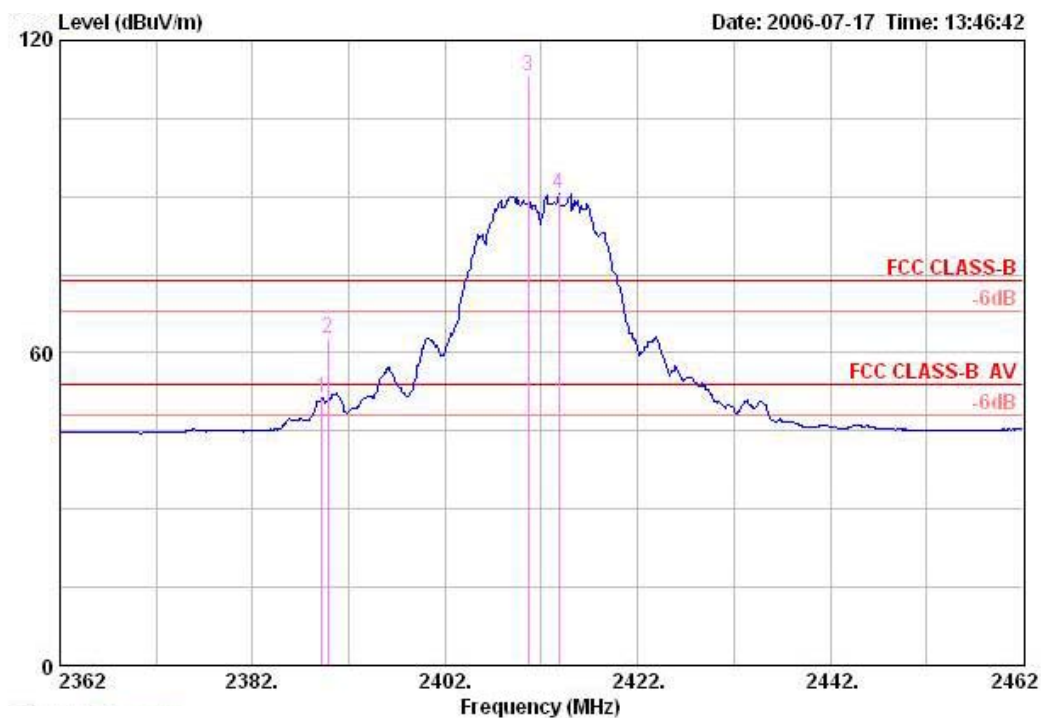
4.6.6. EUT Operation during Test

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	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 1, 11 / X-Axis

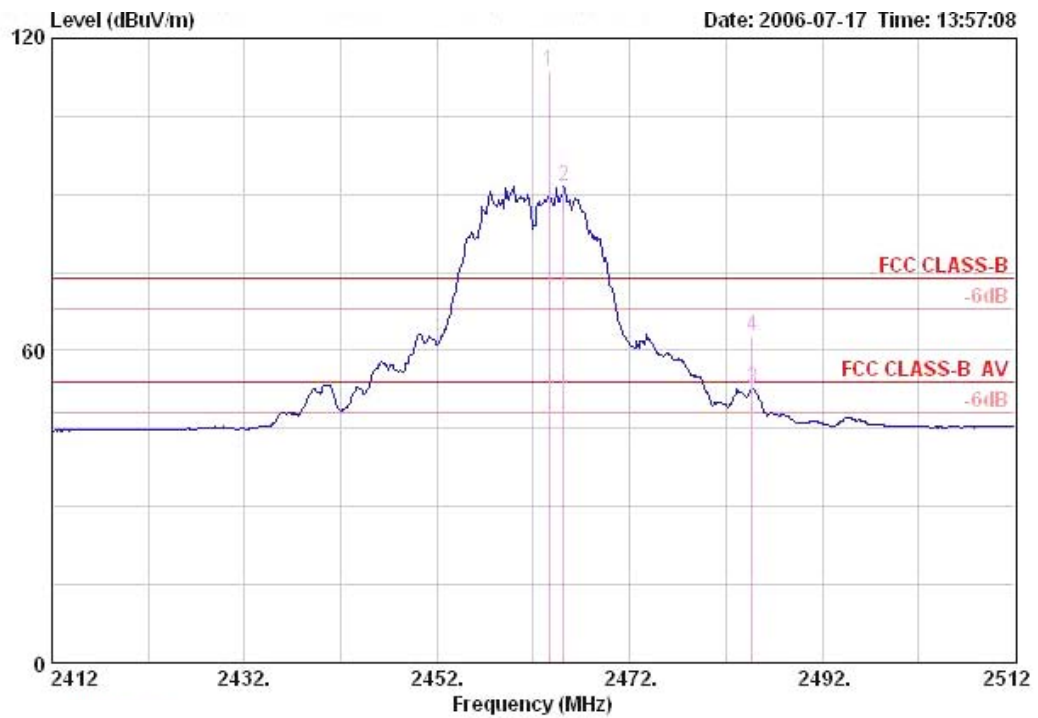
Channel 1



	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 !	2389.200	51.45	-2.55	54.00	28.13	2.58	0.00	20.74	AVERAGE	100	19
2	2389.800	62.77	-11.23	74.00	28.13	2.58	0.00	32.06	PEAK	100	19
3 @	2410.600	113.00			28.18	2.58	0.00	82.25	PEAK	100	19
4	2413.800	90.61			28.18	2.58	0.00	59.86	Average	---	---

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

Channel 11

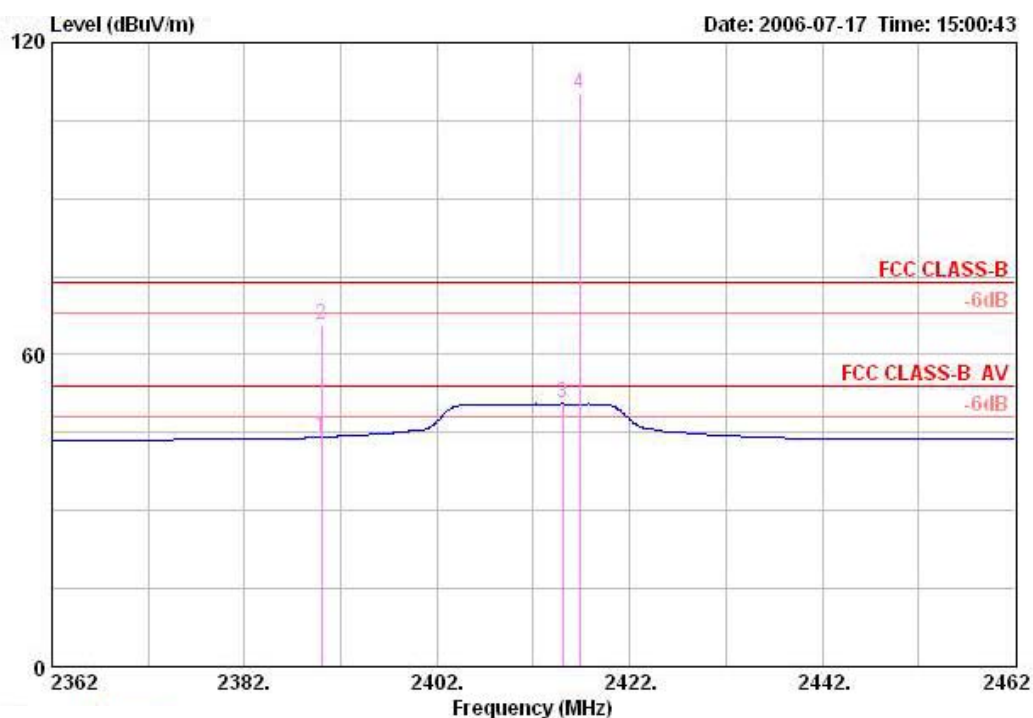


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	2463.600	113.79			28.31	2.62	0.00	82.86	PEAK	100	368
2	2465.100	91.67			28.31	2.62	0.00	60.74	Average	---	---
3 !	2484.700	52.80	-1.20	54.00	28.36	2.62	0.00	21.83	AVERAGE	100	368
4	2484.700	62.74	-11.26	74.00	28.36	2.62	0.00	31.77	PEAK	100	368

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

Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 1, 11 / X-Axis

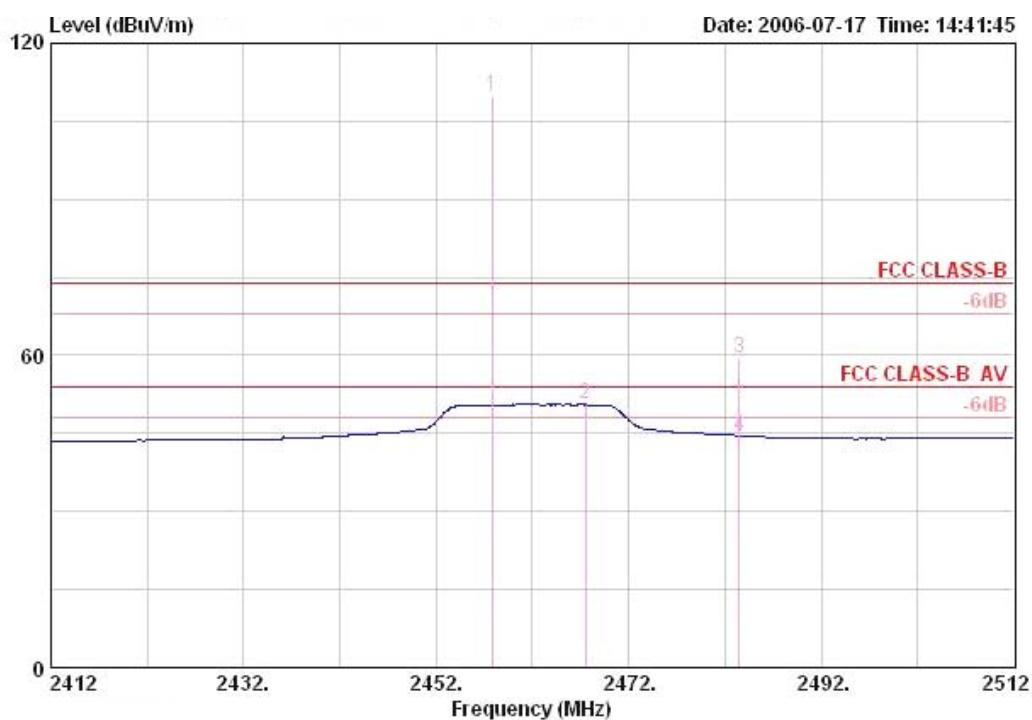
Channel 1



	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	2390.000	44.07	-9.93	54.00	28.13	2.58	0.00	13.36	AVERAGE	100	353
2	2390.000	65.73	-8.27	74.00	28.13	2.58	0.00	35.02	PEAK	100	353
3	2415.000	50.58			28.18	2.58	0.00	19.82	Average	---	---
4	2416.800	110.18			28.18	2.58	0.00	79.43	PEAK	100	353

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

Channel 11



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2457.800	109.83			28.31	2.60	0.00	78.93	PEAK	100	360
2	2467.500	50.60			28.31	2.62	0.00	19.67	Average	---	---
3	2483.500	59.60	-14.40	74.00	28.36	2.62	0.00	28.63	PEAK	100	360
4	2483.500	44.47	-9.53	54.00	28.36	2.62	0.00	13.49	AVERAGE	100	360

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

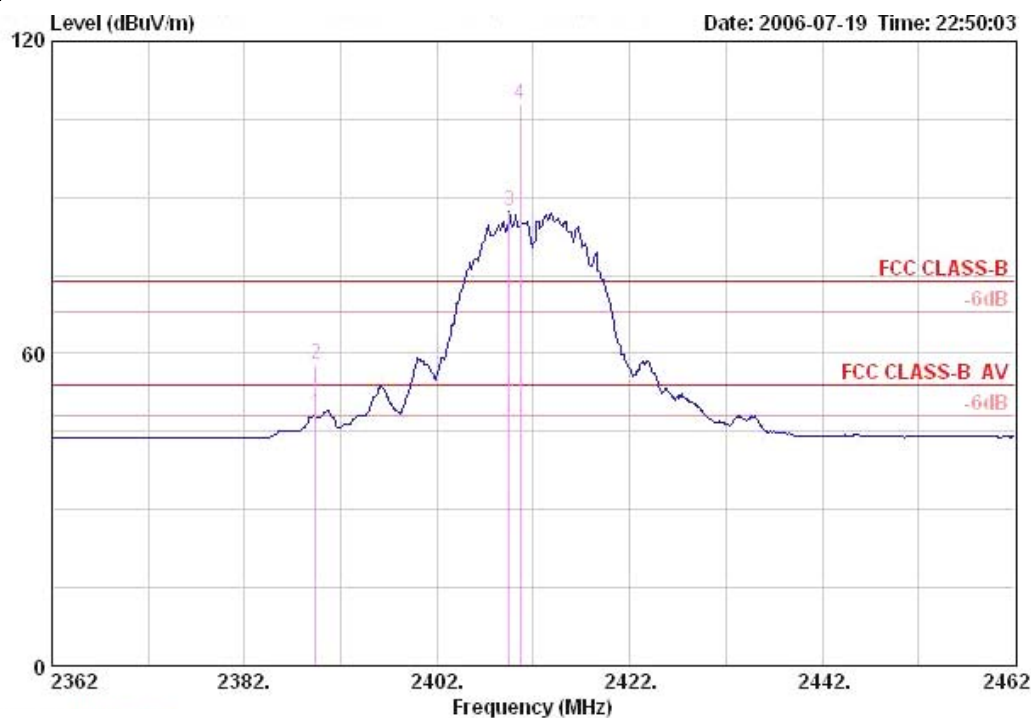
Note:

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 1, 11 / Y-Axis

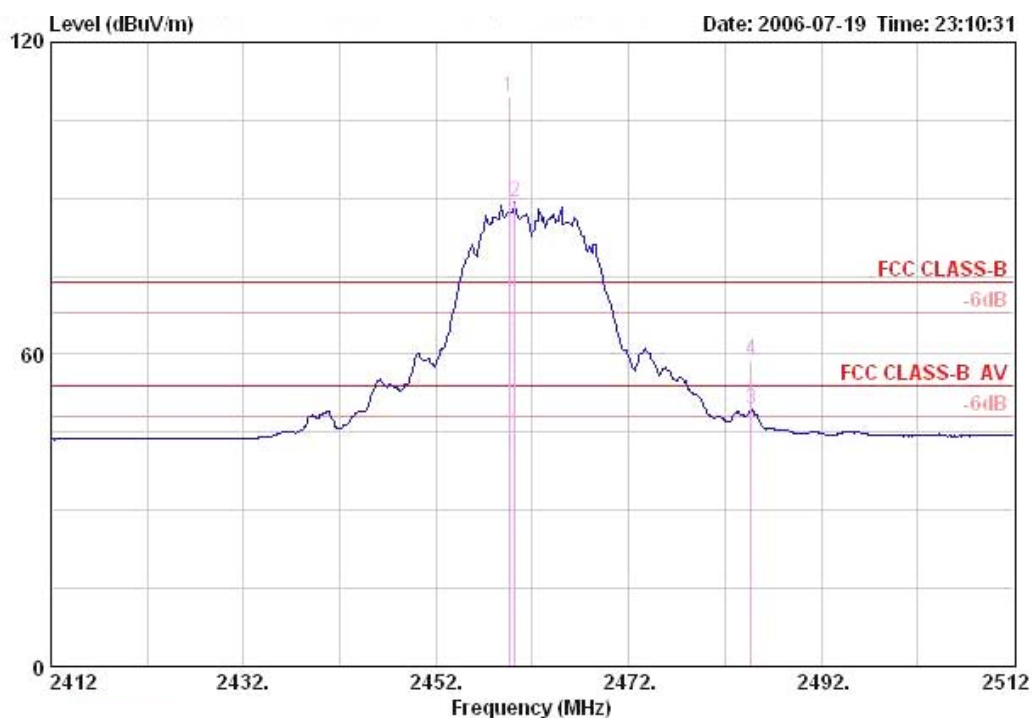
Channel 1



	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 !	2389.400	48.24	-5.76	54.00	28.13	2.58	0.00	17.53	AVERAGE	100	97
2	2389.400	57.85	-16.15	74.00	28.13	2.58	0.00	27.14	PEAK	100	97
3	2409.500	87.18			28.18	2.58	0.00	56.43	Average	---	---
4	2410.600	108.04			28.18	2.58	0.00	77.29	PEAK	100	97

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

Channel 11

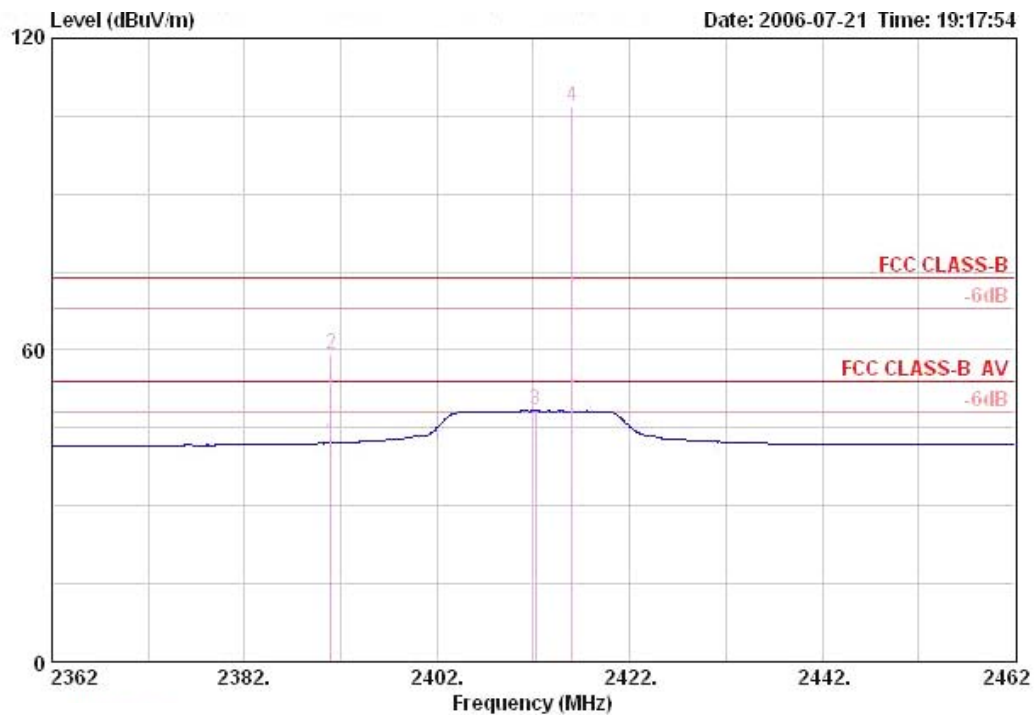


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2459.600	109.55			28.31	2.60	0.00	78.65	PEAK	100	77
2	2460.200	89.14			28.31	2.60	0.00	58.23	Average	---	---
3 !	2484.700	49.43	-4.57	54.00	28.36	2.62	0.00	18.46	AVERAGE	100	77
4	2484.700	58.91	-15.09	74.00	28.36	2.62	0.00	27.93	PEAK	100	77

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

Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 1, 11 / Y-Axis

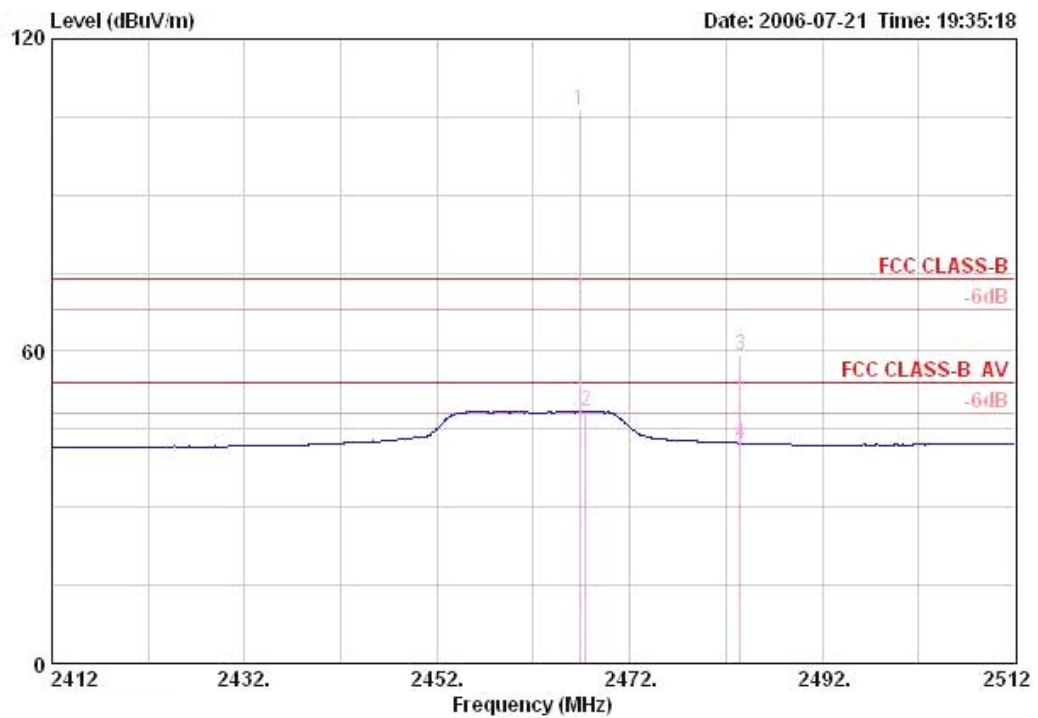
Channel 1



	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	2391.000	42.09	-11.91	54.00	28.13	2.58	0.00	11.38	AVERAGE	100	25
2	2391.000	59.12	-14.88	74.00	28.13	2.58	0.00	28.42	PEAK	100	25
3 !	2412.200	48.32			28.18	2.58	0.00	17.57	Average	---	---
4	2416.000	106.79			28.18	2.58	0.00	76.04	PEAK	100	25

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

Channel 11



	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	2466.800	106.29			28.31	2.62	0.00	75.36	PEAK	100	345
2	2467.400	48.35			28.31	2.62	0.00	17.42	AVERAGE	100	345
3	2483.500	59.03	-14.97	74.00	28.36	2.62	0.00	28.05	PEAK	100	345
4	2483.500	42.24	-11.76	54.00	28.36	2.62	0.00	11.26	AVERAGE	100	345

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

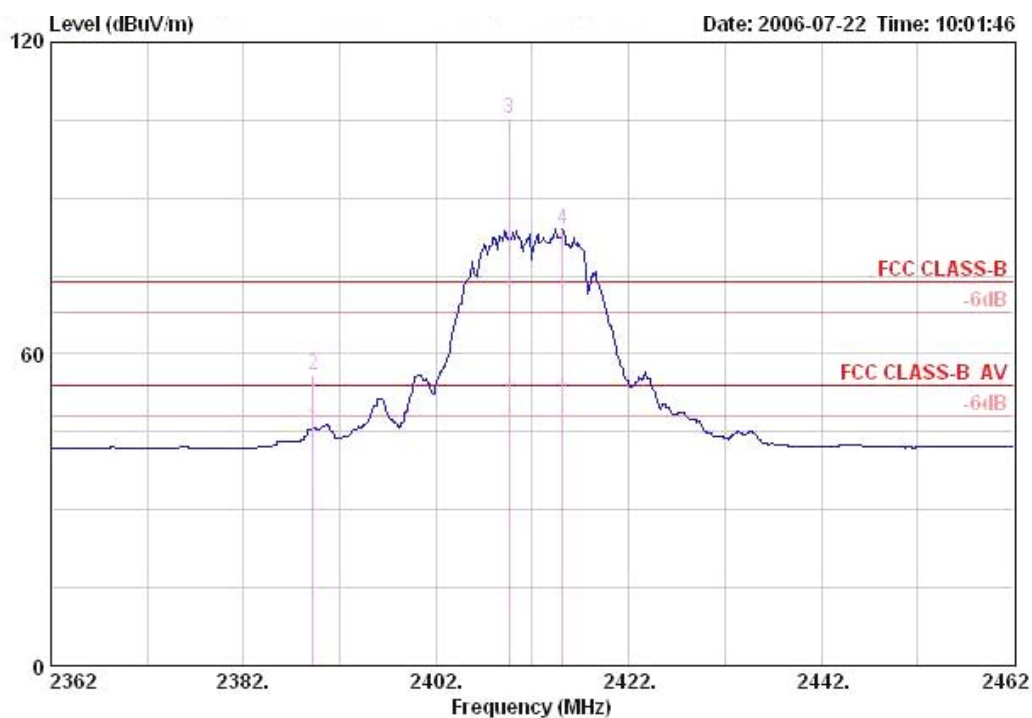
Note:

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11b CH 1, 11 / Z-Axis

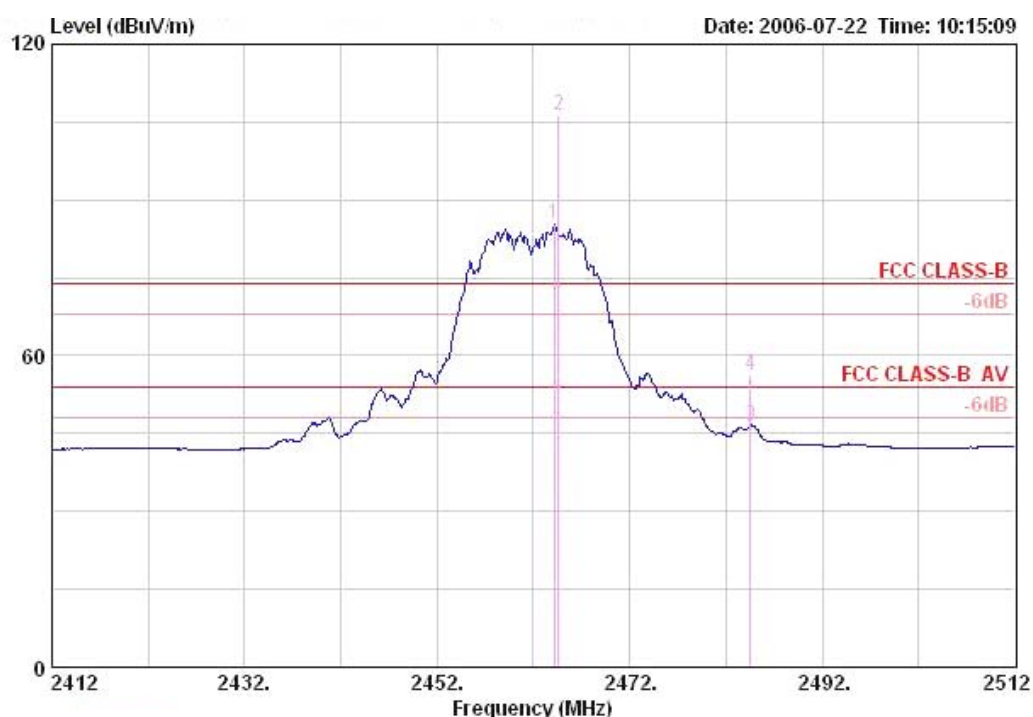
Channel 1



	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	2389.200	45.63	-8.37	54.00	28.13	2.58	0.00	14.92	AVERAGE	162	63
2	2389.200	55.98	-18.02	74.00	28.13	2.58	0.00	25.27	PEAK	162	63
3	2409.600	105.17			28.18	2.58	0.00	74.42	PEAK	162	63
4	2415.100	84.10			28.18	2.58	0.00	53.35	Average	---	---

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

Channel 11

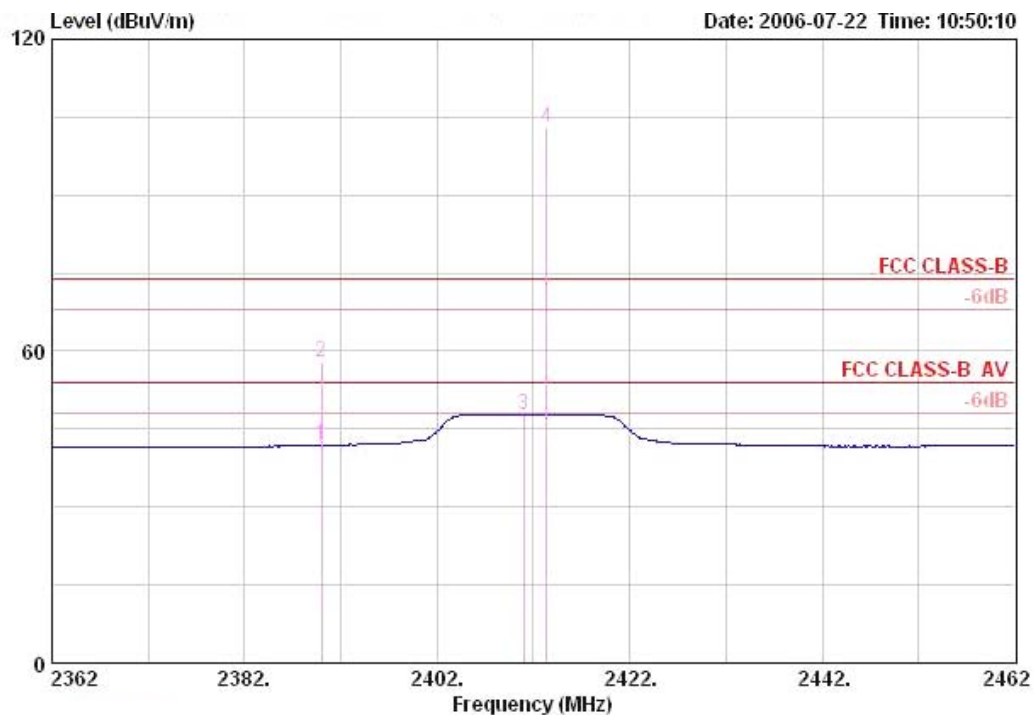


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamplifier	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2464.200	85.35			28.31	2.62	0.00	54.42	Average	---	---
2	2464.600	106.37			28.31	2.62	0.00	75.44	PEAK	152	302
3	2484.500	46.56	-7.44	54.00	28.36	2.62	0.00	15.59	AVERAGE	152	302
4	2484.500	56.12	-17.88	74.00	28.36	2.62	0.00	25.14	PEAK	152	302

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

Temperature	24°C	Humidity	64%
Test Engineer	Johnson Chang	Configurations	802.11g CH 1, 11 / Z-Axis

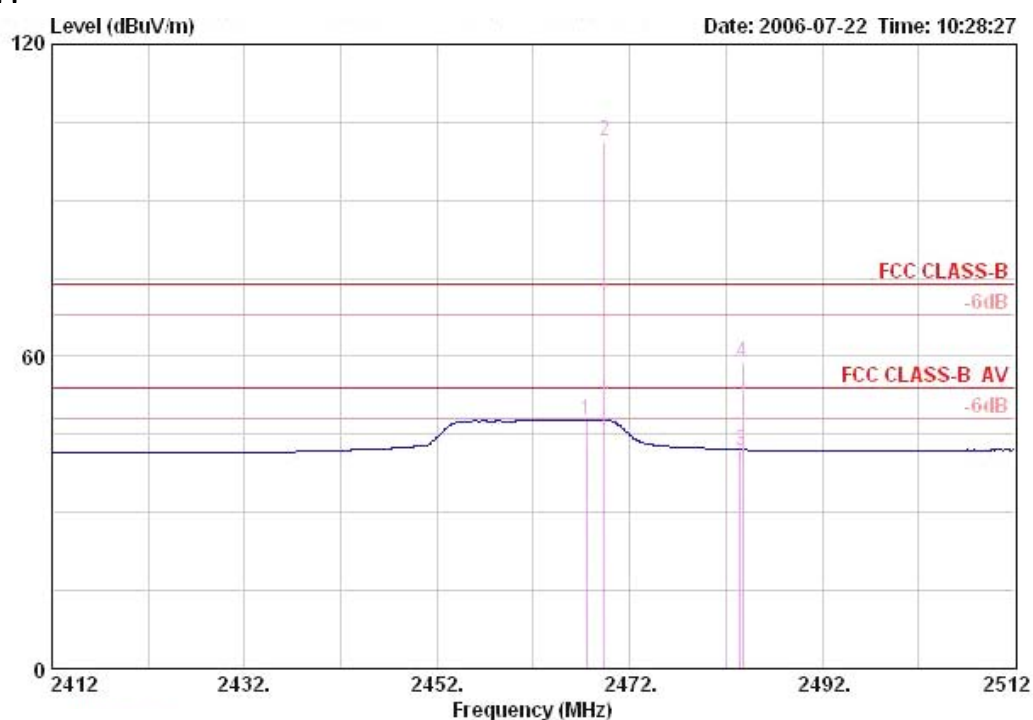
Channel 1



	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	2390.000	41.84	-12.16	54.00	28.13	2.58	0.00	11.13	AVERAGE	100	311
2	2390.000	57.84	-16.16	74.00	28.13	2.58	0.00	27.13	PEAK	100	311
3	2411.000	47.89			28.18	2.58	0.00	17.14	Average	---	---
4	2413.400	102.92			28.18	2.58	0.00	72.17	PEAK	100	311

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

Channel 11



	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	2467.500	47.86			28.31	2.62	0.00	16.93	Average	---	---
2	2469.400	101.25			28.31	2.62	0.00	70.32	PEAK	100	331
3	2483.500	42.01	-11.99	54.00	28.36	2.62	0.00	11.04	AVERAGE	100	331
4	2483.700	58.72	-15.28	74.00	28.36	2.62	0.00	27.74	PEAK	100	331

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

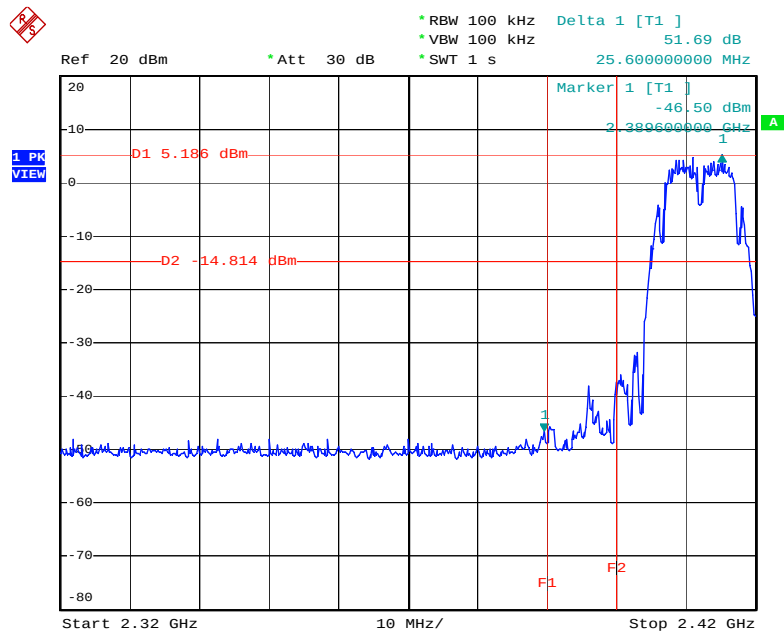
Note:

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

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

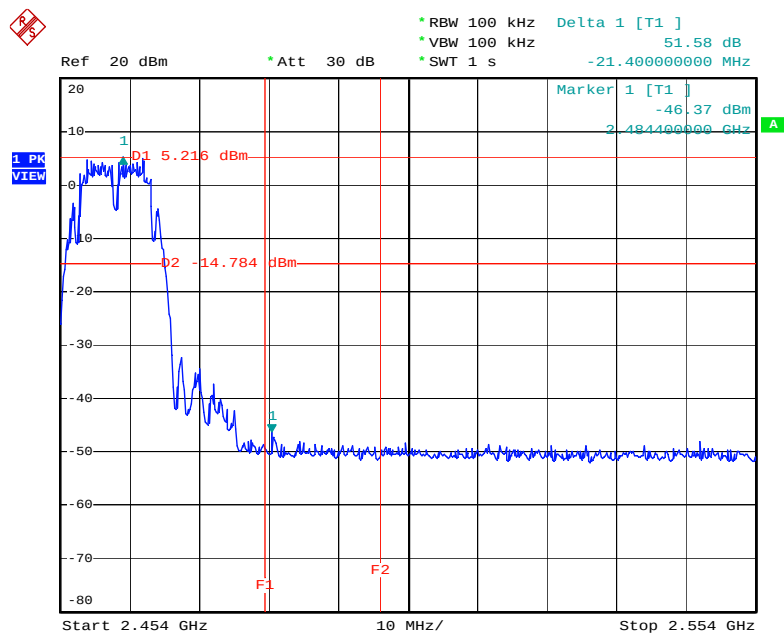
For Emission not in Restricted Band

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



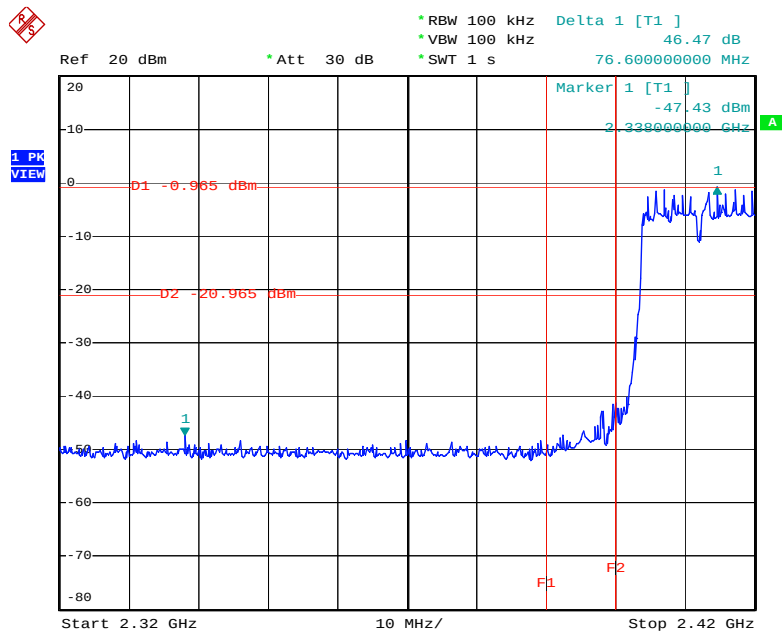
Date: 24.JUL.2006 10:10:30

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



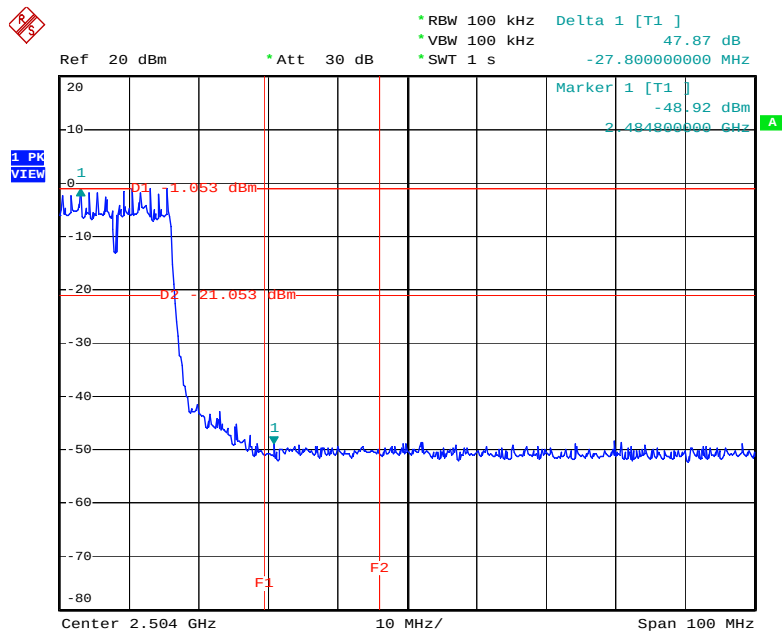
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Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 24.JUL.2006 10:18:10

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



Date: 24.JUL.2006 10:21:15

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
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)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 15, 2006	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	3565	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. 30, 2005	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)
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-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. 01, 2005	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 30, 2005	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 30, 2005	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
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.

Note: *Calibration Interval of instruments listed above is two year.

Note: NCR means Non-Calibration required.

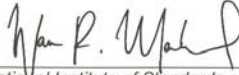
6. SPORTON COMPANY PROFILE

SPORTON Lab. was established in 1986 with one shielded room: the first private EMI test facility, offering local manufacturers an alternative EMI test facility apart from ERSO. In 1988, one 3M and 10M/3M open area test site were setup and also obtained official accreditation from FCC, VCCI and NEMKO. In 1993, a Safety laboratory was founded and obtained accreditation from UL of USA, CSA of Canada and TUV (Rhineland & PS) of Germany. In 1995, one EMC lab, including EMI and EMS test facilities was setup. In 1997, SPORTON Group has provided financial expense to relocate the headquarter to Orient Scientific Park in Taipei Hsien to offer more comprehensive, more qualified and better service to local suppliers and manufactures. In 1999, Safety Group and Component Group were setup. In 2001, SPORTON has established 3M/10M chamber in Hwa Ya Technology Park.

6.1. Test Location

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 02-2696-2468 FAX : 02-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 03-327-3456 FAX : 03-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 02-2601-1640 FAX : 02-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihsu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 02-2631-4739 FAX : 02-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 02-8227-2020 FAX : 02-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 02-2794-8886 FAX : 02-2794-9777
JHUBEI	ADD : No.8, Lane 728, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C. TEL : 03-656-9065 FAX : 03-656-9085

7. NVLAP CERTIFICATE OF ACCREDITATION

United States Department of Commerce National Institute of Standards and Technology	
	
Certificate of Accreditation to ISO/IEC 17025:1999	
NVLAP LAB CODE: 200079-0	
Sporton International, Inc. Hwa Ya EMC Laboratory Tao Yuan Hsien 333 TAIWAN	
<i>is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999. Accreditation is granted for specific services, listed on the Scope of Accreditation, for:</i>	
ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS	
2006-01-01 through 2006-12-31 <i>Effective dates</i>	  <i>For the National Institute of Standards and Technology</i>

NVLAP-01C (REV. 2005-05-19)