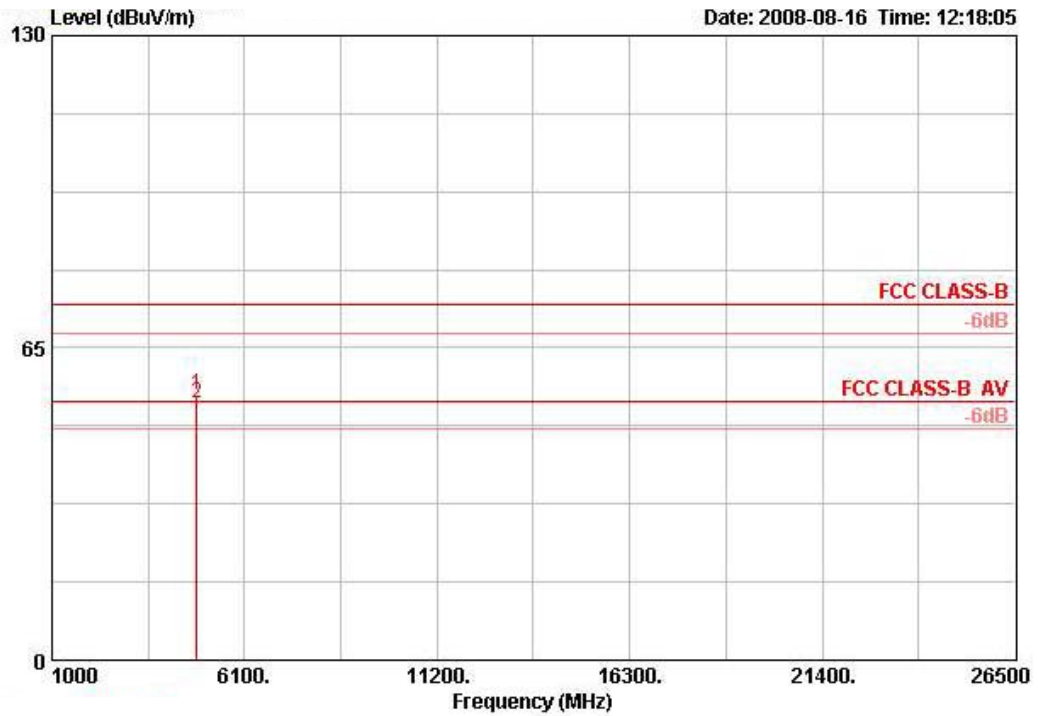


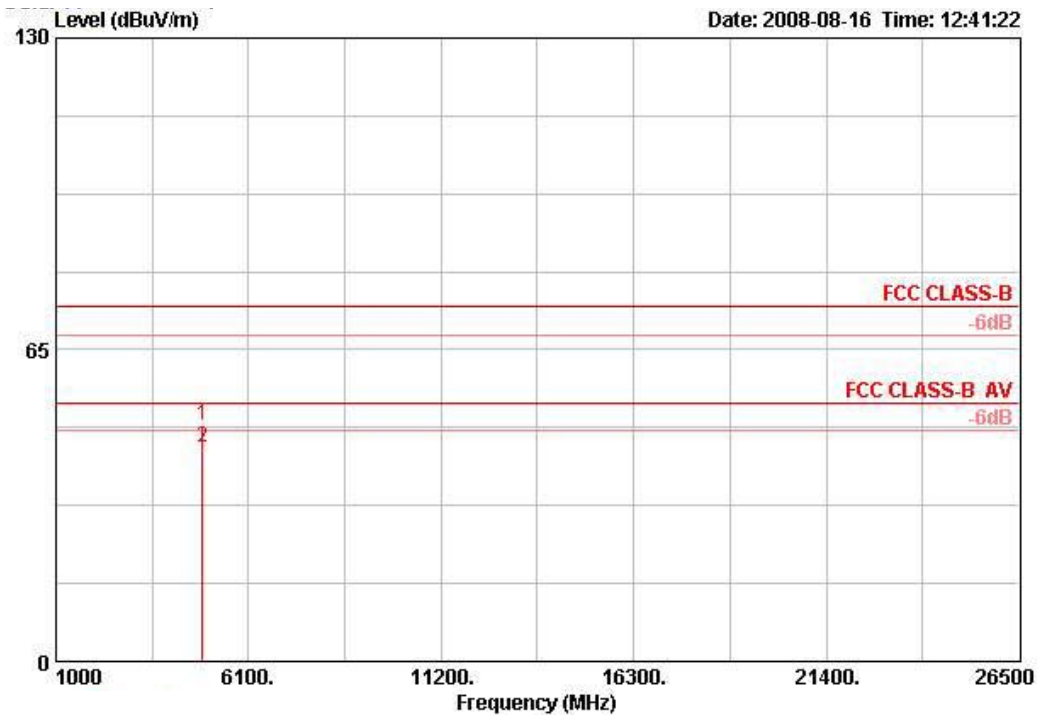
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	4823.950	55.28	-18.72	74.00	54.68	32.49	3.37	35.26	PEAK	178	97	VERTICAL
2 @	4823.990	53.44	-0.56	54.00	52.84	32.49	3.37	35.26	AVERAGE	179	98	VERTICAL

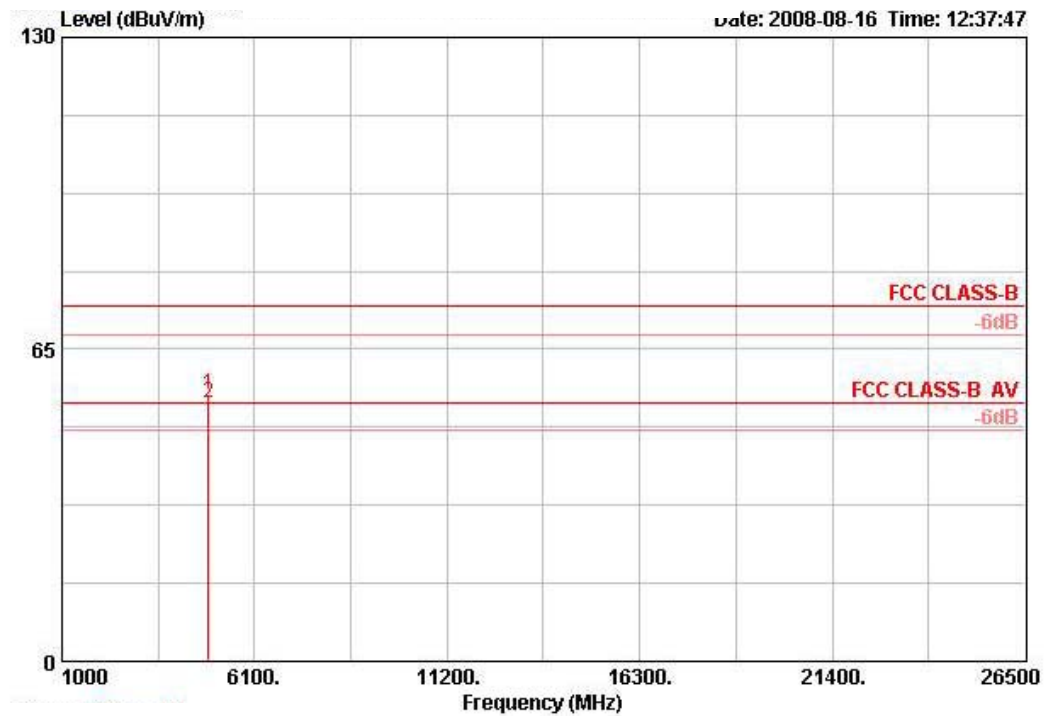
Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11b CH 6 / Mode 4 (Ant. B)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	4873.980	49.11	-24.89	74.00	48.29	32.58	3.38	35.15	PEAK	180	245	HORIZONTAL
2 @	4874.010	44.80	-9.20	54.00	43.98	32.58	3.38	35.15	AVERAGE	180	245	HORIZONTAL

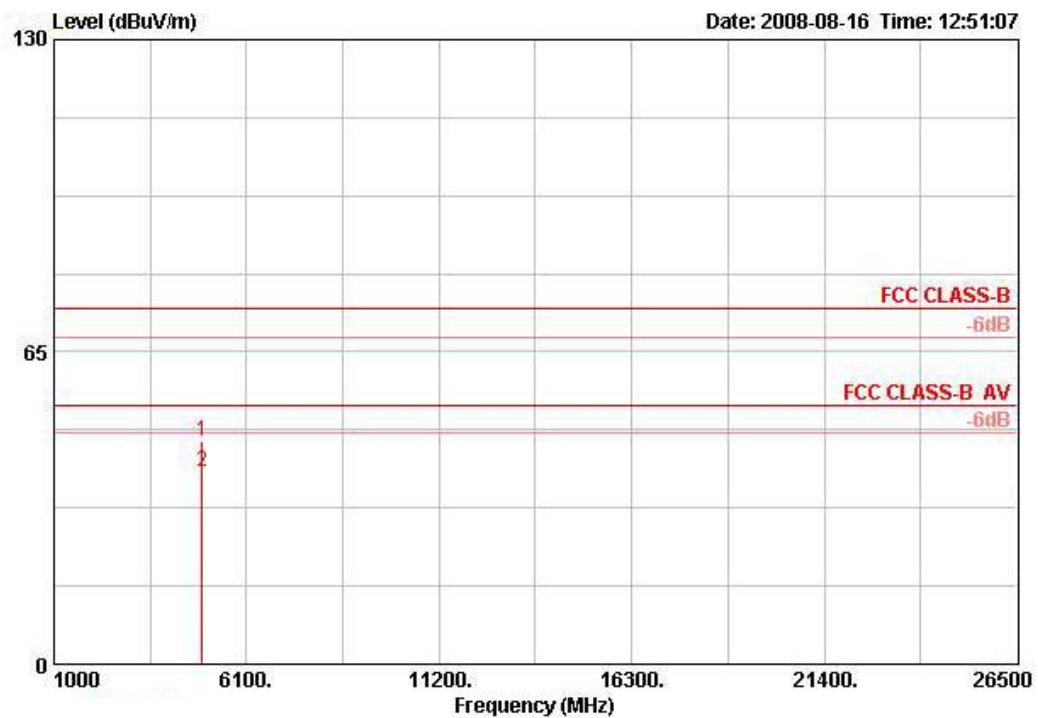
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	4873.930	55.55	-18.45	74.00	54.73	32.58	3.38	35.15	PEAK	185	100	VERTICAL
2 @	4874.010	53.81	-0.19	54.00	52.99	32.58	3.38	35.15	AVERAGE	185	100	VERTICAL

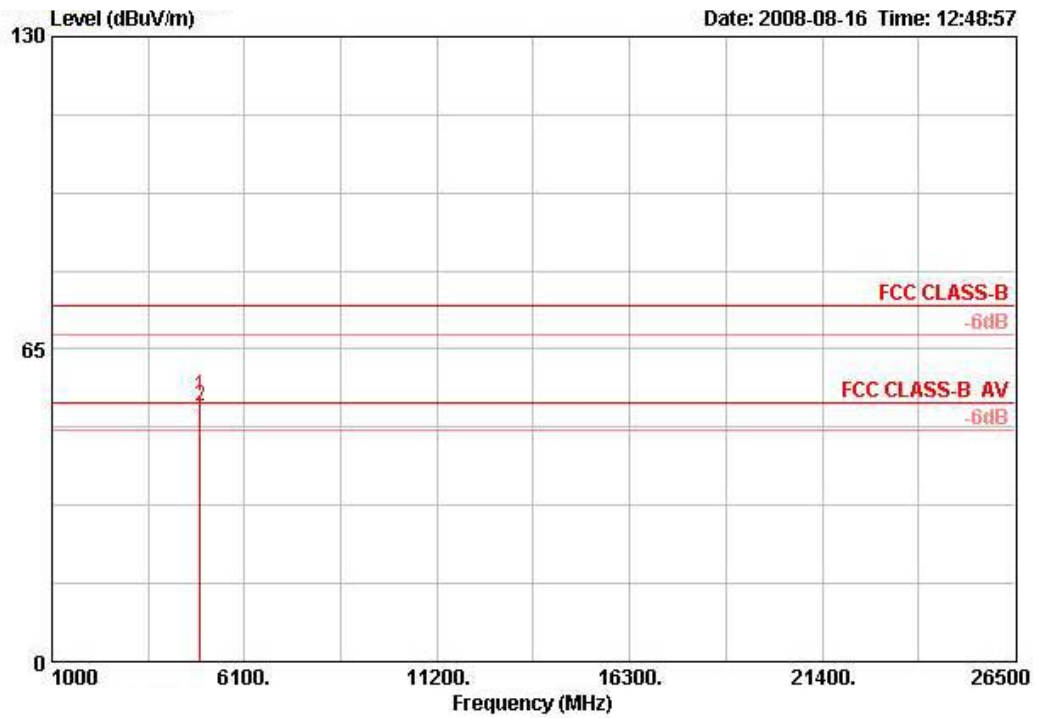
Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11b CH 11 / Mode 4 (Ant. B)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	4923.910	46.38	-27.62	74.00	45.34	32.68	3.40	35.03	PEAK	100	342	HORIZONTAL
2 @	4924.000	40.16	-13.84	54.00	39.12	32.68	3.40	35.03	AVERAGE	100	342	HORIZONTAL

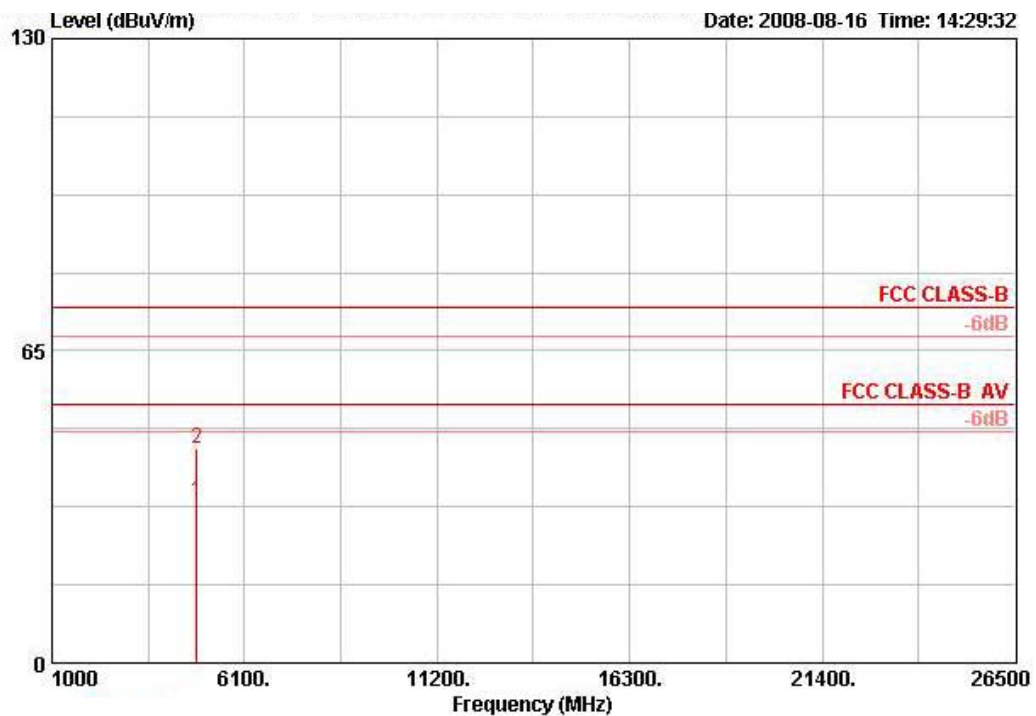
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	4924.000	55.37	-18.63	74.00	54.32	32.68	3.40	35.03	PEAK	117	80	VERTICAL
2 @	4924.010	53.27	-0.73	54.00	52.23	32.68	3.40	35.03	AVERAGE	117	80	VERTICAL

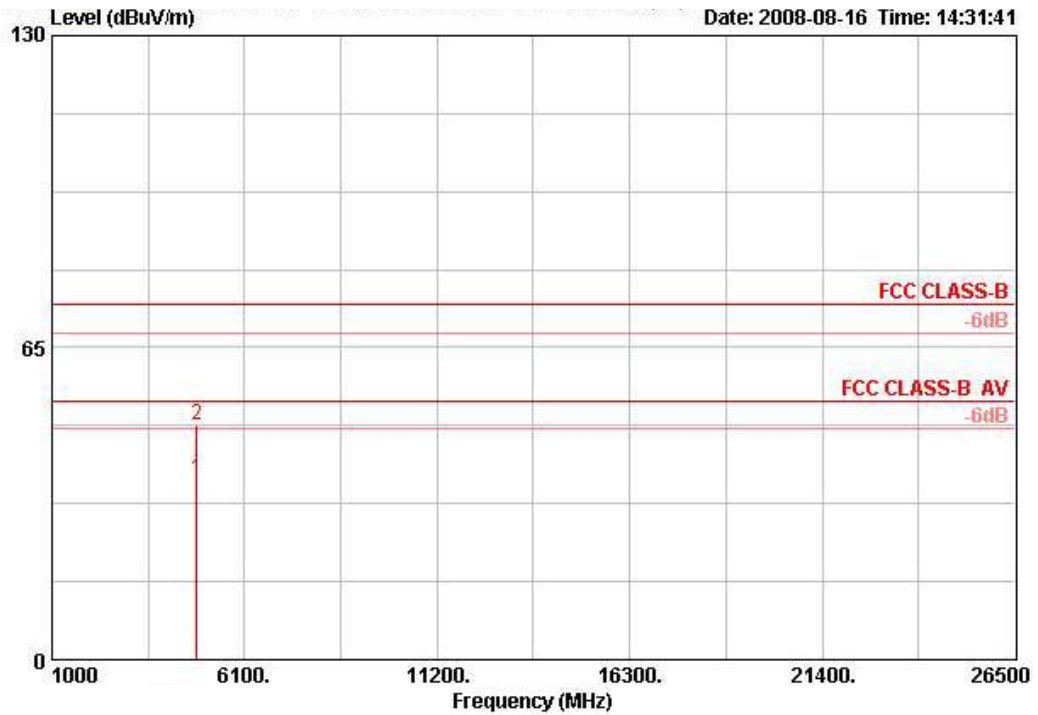
Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 1 / Mode 4 (Ant. B)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	4823.700	33.67	-20.33	54.00	33.07	32.49	3.37	35.26	AVERAGE	161	257	HORIZONTAL
2	4824.400	44.79	-29.21	74.00	44.19	32.49	3.37	35.26	PEAK	161	257	HORIZONTAL

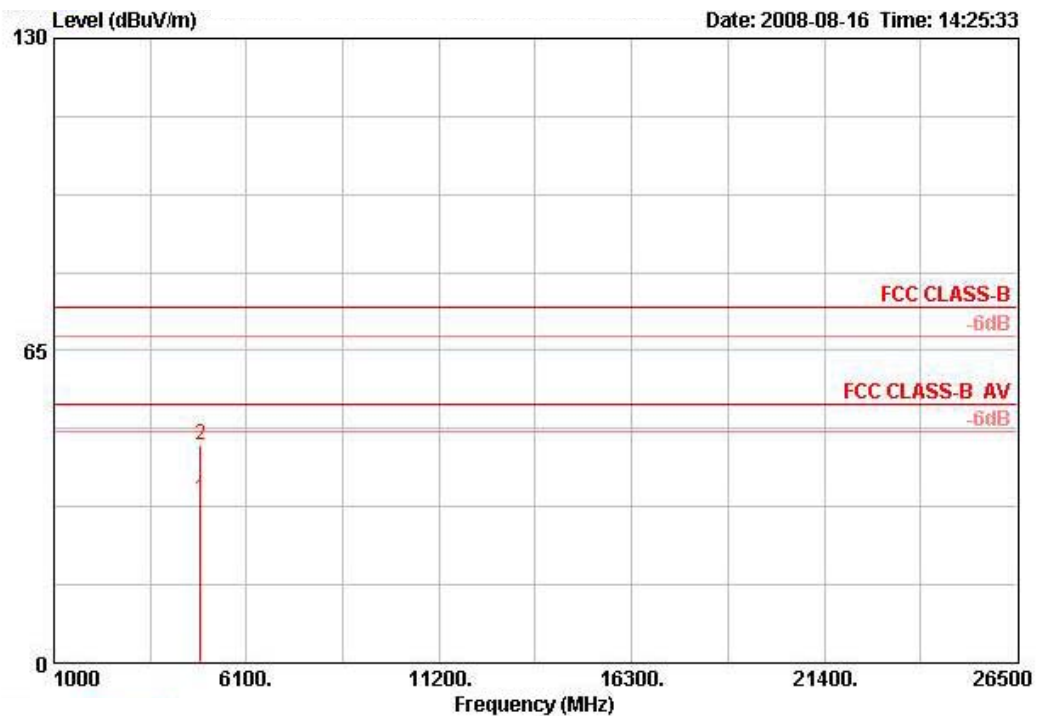
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	4824.100	37.62	-16.38	54.00	37.02	32.49	3.37	35.26	AVERAGE	177	92	VERTICAL
2	4824.700	48.94	-25.06	74.00	48.34	32.49	3.37	35.26	PEAK	177	92	VERTICAL

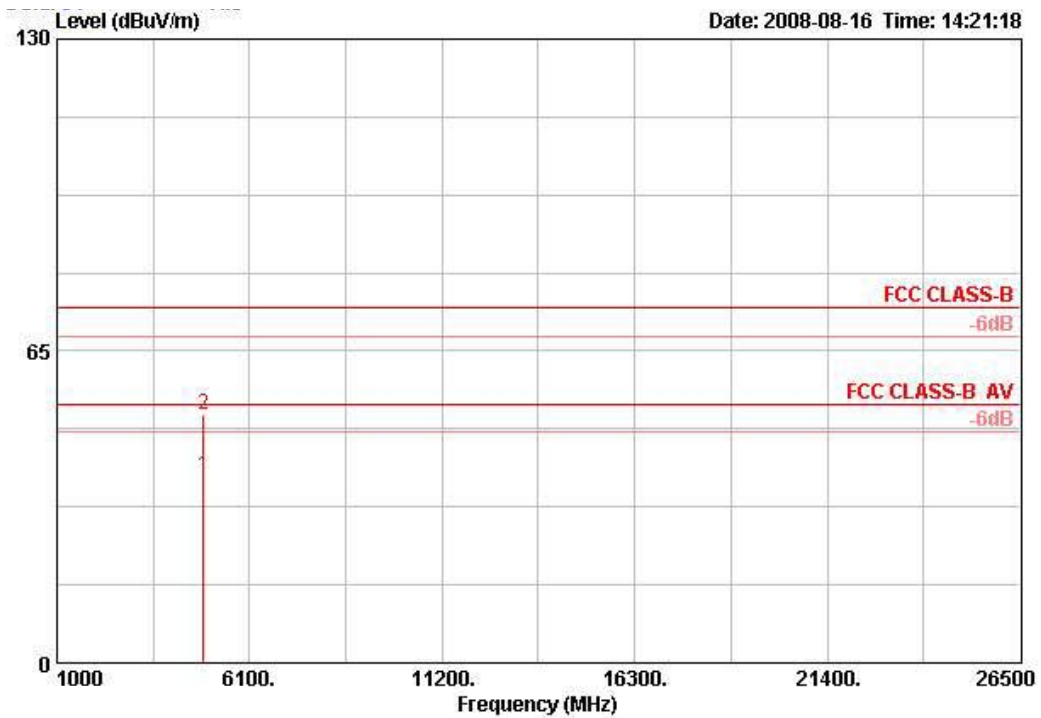
Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 6 / Mode 4 (Ant. B)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	4873.900	33.92	-20.08	54.00	33.10	32.58	3.38	35.15	AVERAGE	168	265	HORIZONTAL
2	4874.900	45.24	-28.76	74.00	44.42	32.58	3.38	35.15	PEAK	168	265	HORIZONTAL

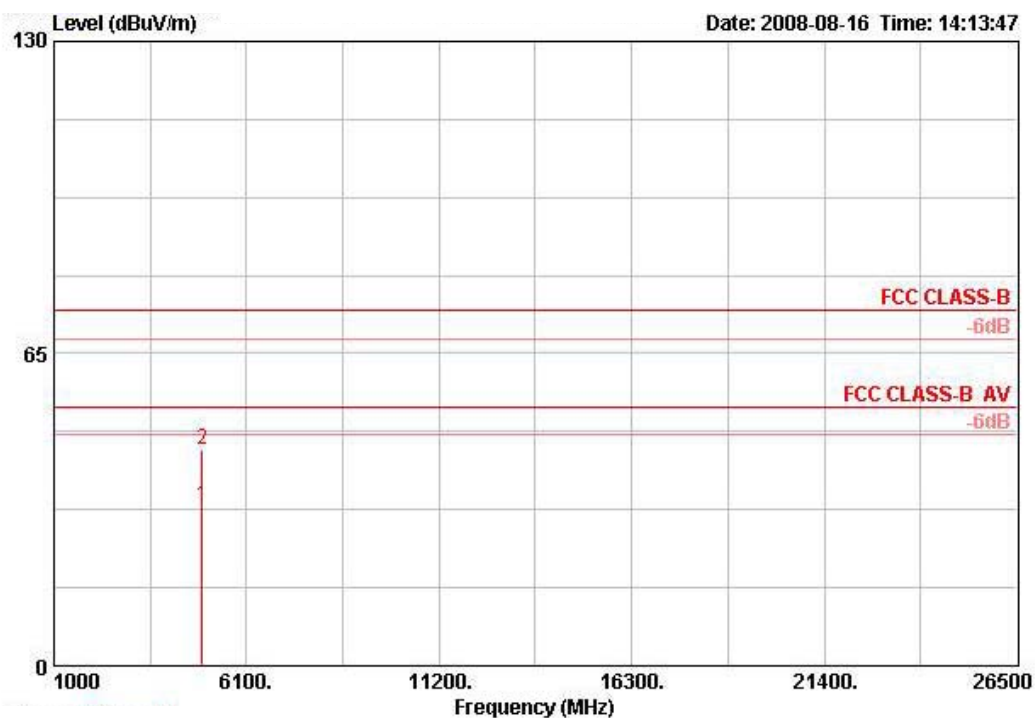
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	4874.200	39.13	-14.87	54.00	38.31	32.58	3.38	35.15	AVERAGE	182	99	VERTICAL
2	4877.500	51.70	-22.30	74.00	50.88	32.58	3.38	35.15	PEAK	182	99	VERTICAL

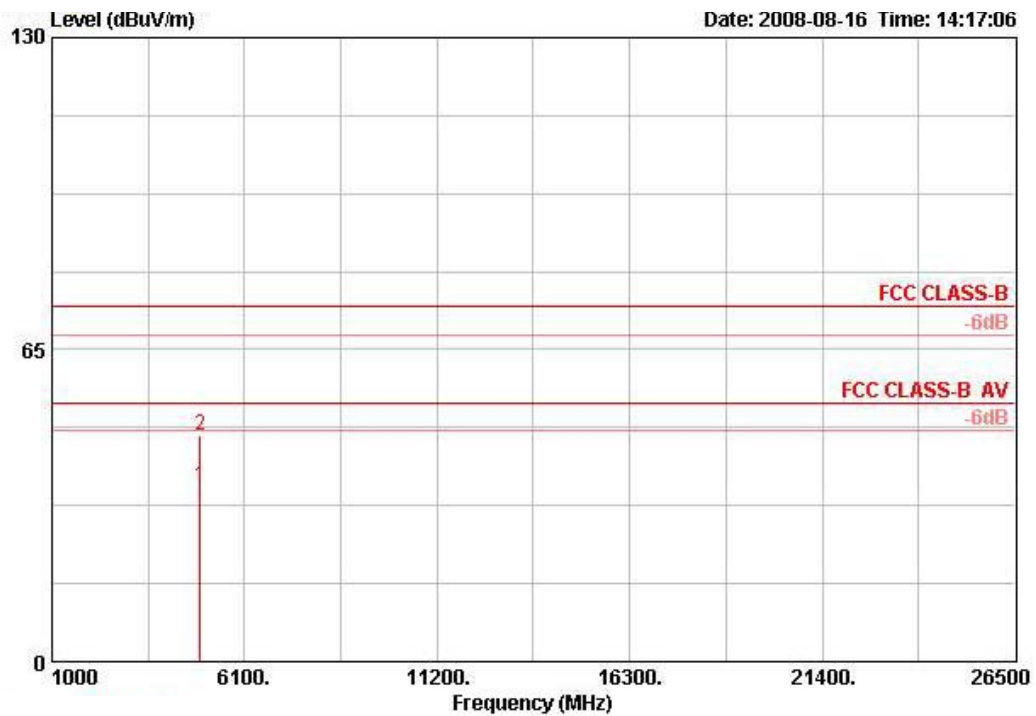
Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 11 / Mode 4 (Ant. B)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	4924.300	33.25	-20.75	54.00	32.20	32.68	3.40	35.03	AVERAGE	169	254	HORIZONTAL
2	4925.000	44.87	-29.13	74.00	43.83	32.68	3.40	35.03	PEAK	169	254	HORIZONTAL

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	4924.700	36.37	-17.63	54.00	35.33	32.68	3.40	35.03	AVERAGE	178	95	VERTICAL
2	4927.500	47.22	-26.78	74.00	46.18	32.68	3.40	35.03	PEAK	178	95	VERTICAL

Note:

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

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

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

4.6. Band Edge Emissions Measurement

4.6.1. Limit

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

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1 MHz / 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	56%
Test Engineer	Roy Huang	Configurations	Draft n MCS0 20MHz Ch 1, 6, 11 Mode 3 (Ant. A)
Test Date	Aug. 25, 2008		

Channel 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.800	70.89	-3.11	74.00	40.58	27.94	2.36	0.00	PEAK	100	74	VERTICAL
2 @	2390.000	51.39	-2.61	54.00	21.08	27.94	2.36	0.00	AVERAGE	100	74	VERTICAL
3 @	2407.400	109.81			79.53	27.92	2.36	0.00	PEAK	100	74	VERTICAL
4 @	2408.800	98.62			68.34	27.92	2.36	0.00	AVERAGE	100	74	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2388.800	56.49	-17.51	74.00	26.20	27.94	2.35	0.00	PEAK	100	11	HORIZONTAL
2	2390.000	44.84	-9.16	54.00	14.53	27.94	2.36	0.00	AVERAGE	100	11	HORIZONTAL
3 @	2440.200	99.34			69.09	27.87	2.38	0.00	AVERAGE	100	11	HORIZONTAL
4 @	2441.600	110.68			80.41	27.87	2.40	0.00	PEAK	100	11	HORIZONTAL
5	2483.500	43.36	-10.64	54.00	13.13	27.82	2.41	0.00	AVERAGE	100	11	HORIZONTAL
6	2484.100	51.27	-22.73	74.00	21.03	27.82	2.41	0.00	PEAK	100	11	HORIZONTAL

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

Channel 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2456.800	98.30			68.06	27.85	2.40	0.00	AVERAGE	103	59	VERTICAL
2 @	2457.800	109.69			79.44	27.85	2.40	0.00	PEAK	103	59	VERTICAL
3 @	2483.500	52.20	-1.80	54.00	21.97	27.82	2.41	0.00	AVERAGE	103	59	VERTICAL
4 @	2483.700	73.37	-0.63	74.00	43.13	27.82	2.41	0.00	PEAK	103	59	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	Draft n MCS0 40MHz Ch 3, 6, 9 Mode 3 (Ant. A)
Test Date	Aug. 25, 2008		

Channel 3

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2389.200	70.40	-3.60	74.00	40.10	27.94	2.35	0.00 PEAK	100	14	HORIZONTAL
2 @	2390.000	53.62	-0.38	54.00	23.31	27.94	2.36	0.00 AVERAGE	100	14	HORIZONTAL
3 @	2428.400	95.78			65.50	27.90	2.38	0.00 AVERAGE	100	14	HORIZONTAL
4 @	2428.800	106.12			75.84	27.90	2.38	0.00 PEAK	100	14	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2433.800	106.69			76.42	27.90	2.38	0.00 PEAK	100	68	VERTICAL
2 @	2443.400	95.97			65.70	27.87	2.40	0.00 AVERAGE	100	68	VERTICAL
3 @	2483.500	51.38	-2.62	54.00	21.14	27.82	2.41	0.00 AVERAGE	100	68	VERTICAL
4	2483.500	65.95	-8.05	74.00	35.72	27.82	2.41	0.00 PEAK	100	68	VERTICAL

Item 1, 2 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2450.000	103.05			72.78	27.87	2.40	0.00 PEAK	100	68	VERTICAL
2 @	2458.400	93.80			63.56	27.85	2.40	0.00 AVERAGE	100	68	VERTICAL
3 @	2483.500	53.35	-0.65	54.00	23.11	27.82	2.41	0.00 AVERAGE	100	68	VERTICAL
4	2483.500	67.76	-6.24	74.00	37.52	27.82	2.41	0.00 PEAK	100	68	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 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	56%
Test Engineer	Roy Huang	Configurations	802.11b CH 1, 6, 11 Mode 3 (Ant. A)
Test Date	Aug. 25, 2008		

Channel 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2386.000	59.01	-14.99	74.00	28.72	27.94	2.35	0.00	PEAK	100	74	VERTICAL
2 @	2386.200	49.91	-4.09	54.00	19.62	27.94	2.35	0.00	AVERAGE	100	74	VERTICAL
3 @	2409.200	102.43			72.15	27.92	2.36	0.00	AVERAGE	100	74	VERTICAL
4 @	2410.400	105.56			75.28	27.92	2.36	0.00	PEAK	100	74	VERTICAL

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

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2389.400	55.47	-18.53	74.00	25.17	27.94	2.35	0.00	PEAK	100	10	HORIZONTAL
2	2390.000	44.29	-9.71	54.00	13.98	27.94	2.36	0.00	AVERAGE	100	10	HORIZONTAL
3 @	2438.200	107.82			77.57	27.87	2.38	0.00	PEAK	100	10	HORIZONTAL
4 @	2439.800	104.37			74.12	27.87	2.38	0.00	AVERAGE	100	10	HORIZONTAL
5	2483.500	43.39	-10.61	54.00	13.15	27.82	2.41	0.00	AVERAGE	100	10	HORIZONTAL
6	2483.700	54.48	-19.52	74.00	24.25	27.82	2.41	0.00	PEAK	100	10	HORIZONTAL

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

Channel 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2463.200	107.94			77.69	27.85	2.40	0.00	PEAK	100	164	VERTICAL
2 @	2464.800	104.28			74.04	27.85	2.40	0.00	AVERAGE	100	164	VERTICAL
3 !	2487.200	48.77	-5.23	54.00	18.53	27.82	2.41	0.00	AVERAGE	100	164	VERTICAL
4	2488.000	58.35	-15.65	74.00	28.14	27.80	2.41	0.00	PEAK	100	164	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 1, 6, 11 Mode 3 (Ant. A)
Test Date	Aug. 25, 2008		

Channel 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.600	70.39	-3.61	74.00	40.10	27.94	2.35	0.00	PEAK	100	73	VERTICAL
2 @	2390.000	50.63	-3.37	54.00	20.32	27.94	2.36	0.00	AVERAGE	100	73	VERTICAL
3 @	2408.000	98.30			68.02	27.92	2.36	0.00	AVERAGE	100	73	VERTICAL
4 @	2409.600	108.69			78.40	27.92	2.36	0.00	PEAK	100	73	VERTICAL

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

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2390.000	44.48	-9.52	54.00	14.17	27.94	2.36	0.00	AVERAGE	110	33	HORIZONTAL
2	2390.000	56.39	-17.61	74.00	26.08	27.94	2.36	0.00	PEAK	110	33	HORIZONTAL
3 @	2434.600	111.14			80.86	27.90	2.38	0.00	PEAK	110	33	HORIZONTAL
4 @	2434.800	100.96			70.68	27.90	2.38	0.00	AVERAGE	110	33	HORIZONTAL
5	2483.500	44.79	-9.21	54.00	14.55	27.82	2.41	0.00	AVERAGE	110	33	HORIZONTAL
6	2484.100	56.65	-17.35	74.00	26.41	27.82	2.41	0.00	PEAK	110	33	HORIZONTAL

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

Channel 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2457.800	107.43			77.19	27.85	2.40	0.00	PEAK	136	172	HORIZONTAL
2 @	2457.800	97.10			66.85	27.85	2.40	0.00	AVERAGE	136	172	HORIZONTAL
3 !	2483.500	49.38	-4.62	54.00	19.15	27.82	2.41	0.00	AVERAGE	136	172	HORIZONTAL
4 @	2483.500	73.11	-0.89	74.00	42.87	27.82	2.41	0.00	PEAK	136	172	HORIZONTAL

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 - Preamplifier Factor = Level.

Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	Draft n MCS0 20MHz Ch 1, 6, 11 Mode 4 (Ant. B)
Test Date	Aug. 16, 2008		

Channel 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2390.000	73.46	-0.54	74.00	43.16	27.94	2.36	0.00 PEAK	103	22	VERTICAL
2 @	2390.000	50.66	-3.34	54.00	20.35	27.94	2.36	0.00 AVERAGE	103	22	VERTICAL
3 @	2415.400	106.22			75.92	27.92	2.38	0.00 PEAK	103	22	VERTICAL
4 @	2417.400	96.49			66.19	27.92	2.38	0.00 AVERAGE	103	22	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2388.600	61.07	-12.93	74.00	30.78	27.94	2.35	0.00 PEAK	104	21	VERTICAL
2 @	2390.000	44.41	-9.59	54.00	14.10	27.94	2.36	0.00 AVERAGE	104	21	VERTICAL
3 @	2433.800	96.80			66.53	27.90	2.38	0.00 AVERAGE	104	21	VERTICAL
4 @	2433.800	106.55			76.27	27.90	2.38	0.00 PEAK	104	21	VERTICAL
5 @	2483.500	45.13	-8.87	54.00	14.89	27.82	2.41	0.00 AVERAGE	104	21	VERTICAL
6 @	2484.700	56.12	-17.88	74.00	25.89	27.82	2.41	0.00 PEAK	104	21	VERTICAL

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

Channel 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2466.200	105.46			75.22	27.85	2.40	0.00 PEAK	100	21	VERTICAL
2 @	2467.400	96.13			65.87	27.85	2.41	0.00 AVERAGE	100	21	VERTICAL
3 @	2483.500	53.42	-0.58	54.00	23.19	27.82	2.41	0.00 AVERAGE	100	21	VERTICAL
4 @	2483.500	72.61	-1.39	74.00	42.37	27.82	2.41	0.00 PEAK	100	21	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	Draft n MCS0 40MHz Ch 3, 6, 9 Mode 4 (Ant. B)
Test Date	Aug. 16, 2008		

Channel 3

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss Factor	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2388.400	72.59	-1.41	74.00	42.30	27.94	2.35	0.00 PEAK	106	21	VERTICAL
2 @	2390.000	53.78	-0.22	54.00	23.47	27.94	2.36	0.00 AVERAGE	106	21	VERTICAL
3 @	2426.800	102.61			72.33	27.90	2.38	0.00 PEAK	106	21	VERTICAL
4 @	2427.200	93.18			62.90	27.90	2.38	0.00 AVERAGE	106	21	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss Factor	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2388.800	64.68	-9.32	74.00	34.39	27.94	2.35	0.00 PEAK	100	19	VERTICAL
2 @	2390.000	51.66	-2.34	54.00	21.35	27.94	2.36	0.00 AVERAGE	100	19	VERTICAL
3 @	2431.400	93.02			62.74	27.90	2.38	0.00 AVERAGE	100	19	VERTICAL
4 @	2433.800	102.47			72.20	27.90	2.38	0.00 PEAK	100	19	VERTICAL
5 @	2483.500	53.98	-0.02	54.00	23.75	27.82	2.41	0.00 AVERAGE	100	19	VERTICAL
6 @	2483.500	70.55	-3.45	74.00	40.31	27.82	2.41	0.00 PEAK	100	19	VERTICAL

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

Channel 9

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss Factor	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2445.600	90.46			60.19	27.87	2.40	0.00 AVERAGE	102	18	VERTICAL
2 @	2458.400	100.83			70.58	27.85	2.40	0.00 PEAK	102	18	VERTICAL
3 @	2483.500	53.01	-0.99	54.00	22.77	27.82	2.41	0.00 AVERAGE	102	18	VERTICAL
4 @	2486.700	67.48	-6.52	74.00	37.24	27.82	2.41	0.00 PEAK	102	18	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 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	56%
Test Engineer	Roy Huang	Configurations	802.11b CH 1, 6, 11 Mode 4 (Ant. B)
Test Date	Aug. 16, 2008		

Channel 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2384.000	55.70	-18.30	74.00	25.38	27.97	2.35	0.00	PEAK	119	22	HORIZONTAL
2 @	2386.200	45.56	-8.44	54.00	15.27	27.94	2.35	0.00	AVERAGE	119	22	HORIZONTAL
3 @	2413.600	100.51			70.22	27.92	2.36	0.00	PEAK	119	22	HORIZONTAL
4 @	2414.800	97.04			66.76	27.92	2.36	0.00	AVERAGE	119	22	HORIZONTAL

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

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2389.400	53.64	-20.36	74.00	23.35	27.94	2.35	0.00	PEAK	102	23	VERTICAL
2 @	2390.000	43.67	-10.33	54.00	13.36	27.94	2.36	0.00	AVERAGE	102	23	VERTICAL
3 @	2434.200	100.90			70.62	27.90	2.38	0.00	AVERAGE	102	23	VERTICAL
4 @	2436.000	104.35			74.07	27.90	2.38	0.00	PEAK	102	23	VERTICAL
5 @	2483.500	44.34	-9.66	54.00	14.10	27.82	2.41	0.00	AVERAGE	102	23	VERTICAL
6 @	2483.700	55.05	-18.95	74.00	24.81	27.82	2.41	0.00	PEAK	102	23	VERTICAL

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

Channel 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2463.400	105.93			75.68	27.85	2.40	0.00	PEAK	102	21	VERTICAL
2 @	2464.800	102.58			72.33	27.85	2.40	0.00	AVERAGE	102	21	VERTICAL
3 @	2483.500	53.96	-0.04	54.00	23.72	27.82	2.41	0.00	AVERAGE	102	21	VERTICAL
4 @	2484.700	61.96	-12.04	74.00	31.72	27.82	2.41	0.00	PEAK	102	21	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 1, 6, 11 Mode 4 (Ant. B)
Test Date	Aug. 16, 2008		

Channel 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss Factor	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2389.400	71.82	-2.18	74.00	41.53	27.94	2.35	0.00 PEAK	103	17	VERTICAL
2 @	2390.000	52.93	-1.07	54.00	22.62	27.94	2.36	0.00 AVERAGE	103	17	VERTICAL
3 @	2415.200	105.97			75.69	27.92	2.36	0.00 PEAK	103	17	VERTICAL
4 @	2416.000	96.54			66.24	27.92	2.38	0.00 AVERAGE	103	17	VERTICAL

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

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss Factor	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2388.600	56.22	-17.78	74.00	25.93	27.94	2.35	0.00 PEAK	103	22	VERTICAL
2 @	2390.000	44.23	-9.77	54.00	13.93	27.94	2.36	0.00 AVERAGE	103	22	VERTICAL
3 @	2431.600	106.94			76.66	27.90	2.38	0.00 PEAK	103	22	VERTICAL
4 @	2433.000	96.45			66.18	27.90	2.38	0.00 AVERAGE	103	22	VERTICAL
5 @	2483.500	45.00	-9.00	54.00	14.76	27.82	2.41	0.00 AVERAGE	103	22	VERTICAL
6 @	2484.900	55.83	-18.17	74.00	25.59	27.82	2.41	0.00 PEAK	103	22	VERTICAL

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

Channel 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss Factor	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2466.400	96.69			66.43	27.85	2.41	0.00 AVERAGE	103	19	VERTICAL
2 @	2468.200	106.08			75.81	27.85	2.41	0.00 PEAK	103	19	VERTICAL
3 @	2483.500	53.65	-0.35	54.00	23.41	27.82	2.41	0.00 AVERAGE	103	19	VERTICAL
4 @	2483.500	72.78	-1.22	74.00	42.54	27.82	2.41	0.00 PEAK	103	19	VERTICAL

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

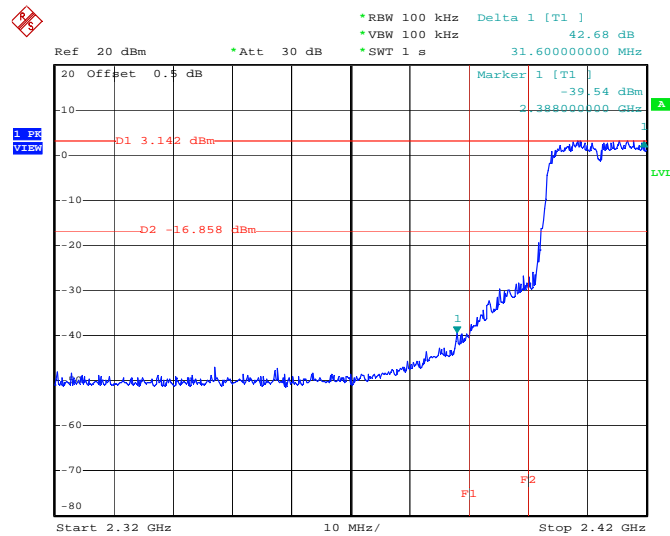
Note:

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

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

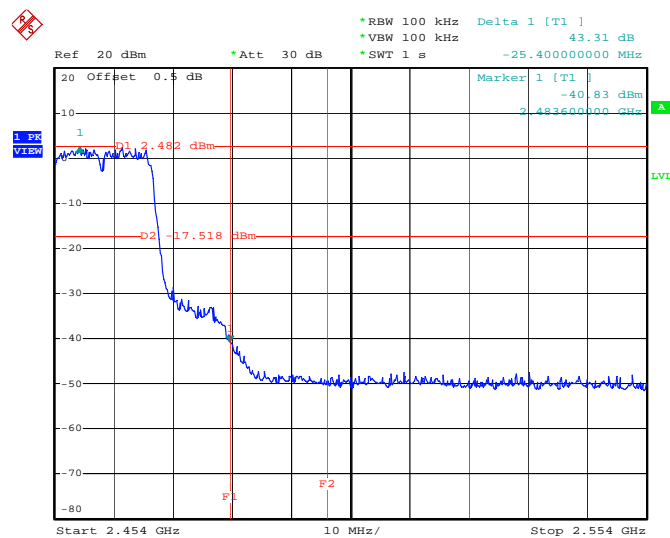
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS0 20MHz Ant. A / 2412 MHz



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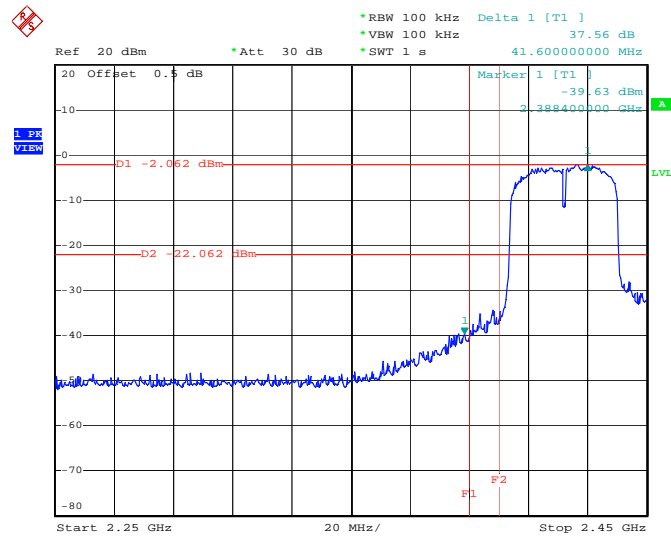
High Band Edge Plot on Configuration Drafft n MCS0 20MHz Ant. A / 2462 MHz



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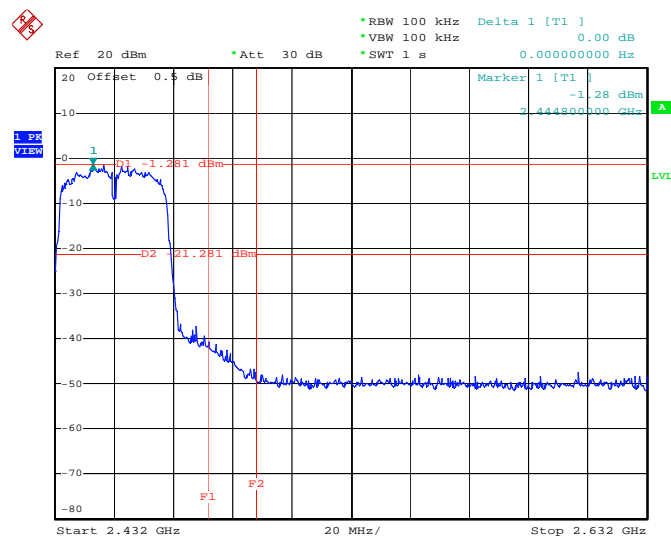
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS0 40MHz Ant. A / 2422 MHz



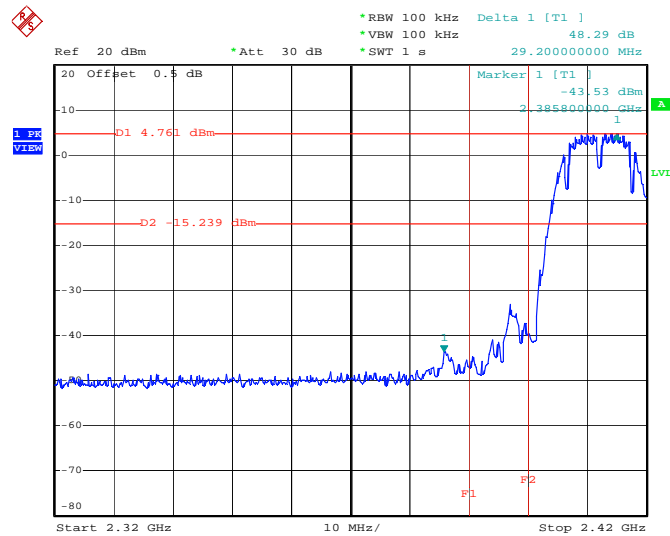
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High Band Edge Plot on Configuration Drafft n MCS0 40MHz Ant. A / 2452 MHz



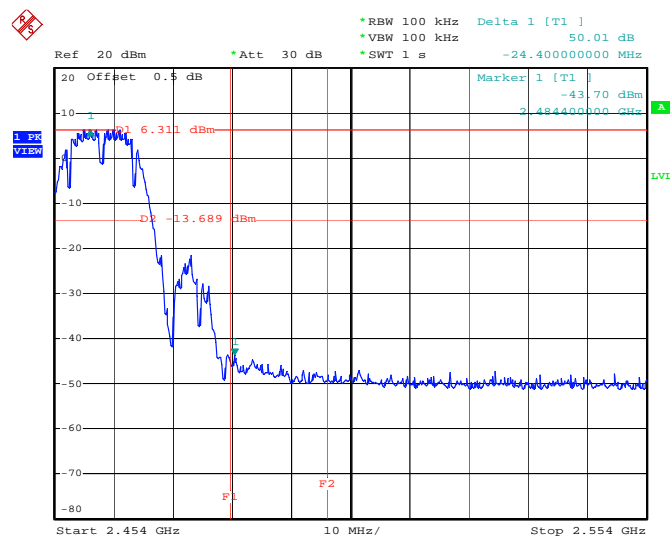
Date: 26.AUG.2008 05:37:02

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



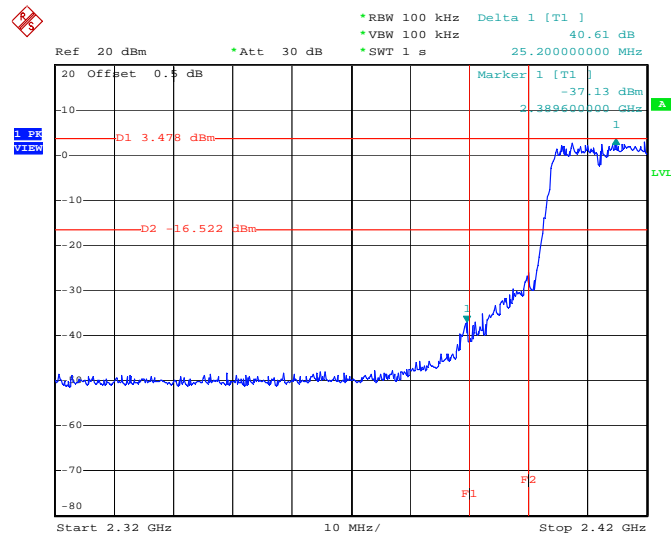
Date: 19.AUG.2008 11:59:40

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



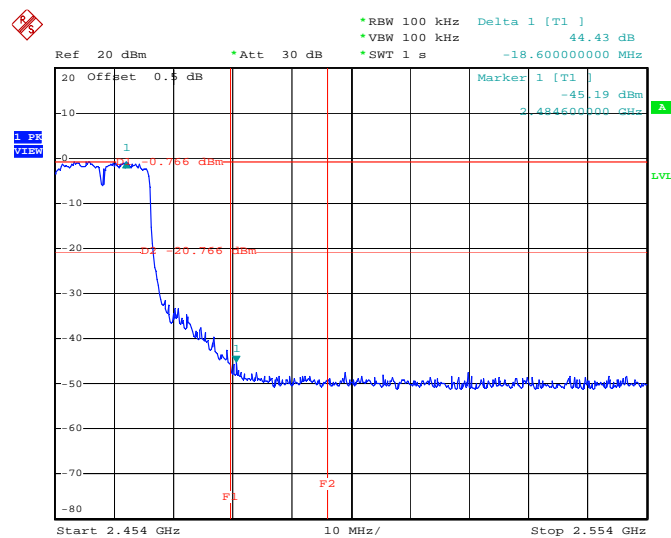
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Low Band Edge Plot on Configuration IEEE 802.11g Ant. A / 2412 MHz



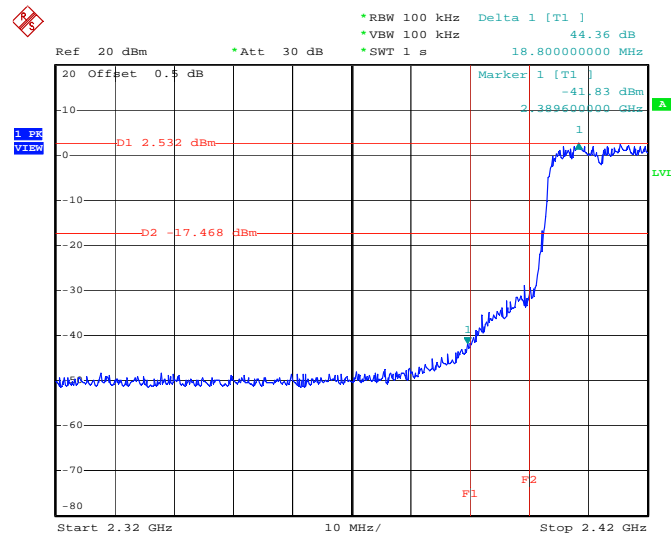
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High Band Edge Plot on Configuration IEEE 802.11g Ant. A / 2462 MHz



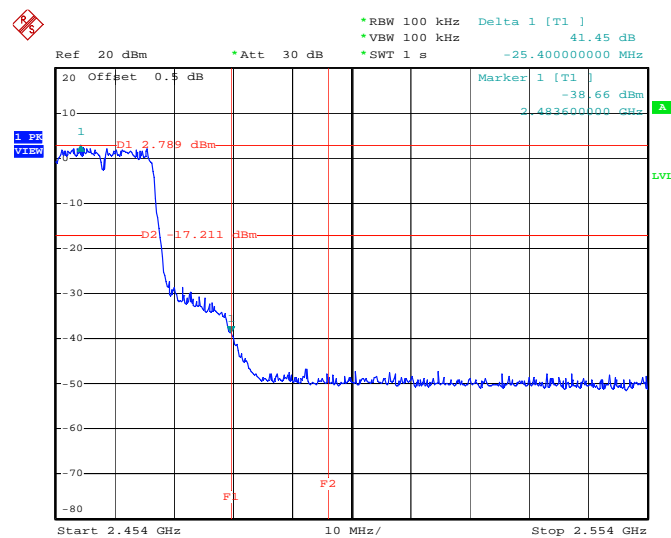
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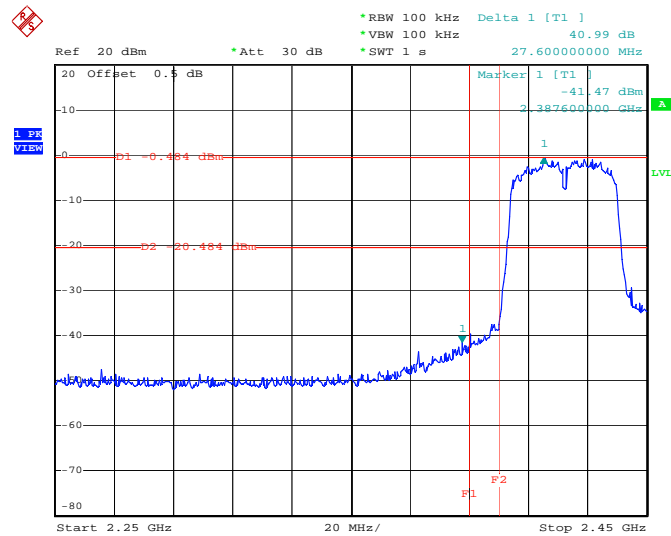
High Band Edge Plot on Configuration Drafft n MCS0 20MHz Ant. B / 2462 MHz



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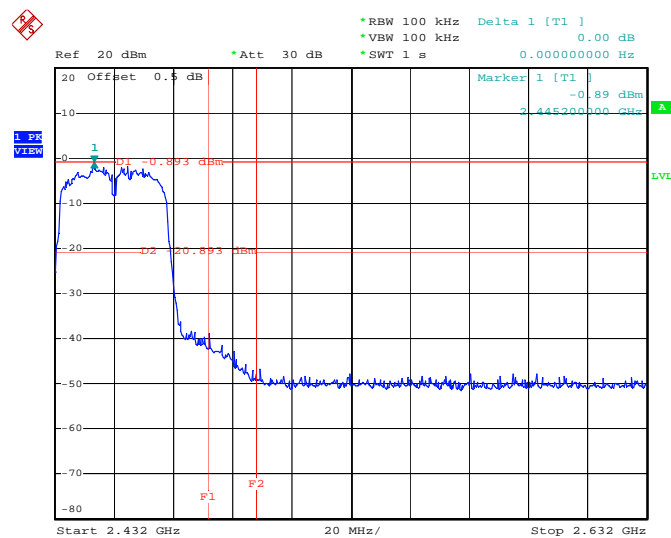
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS0 40MHz Ant. B / 2422 MHz



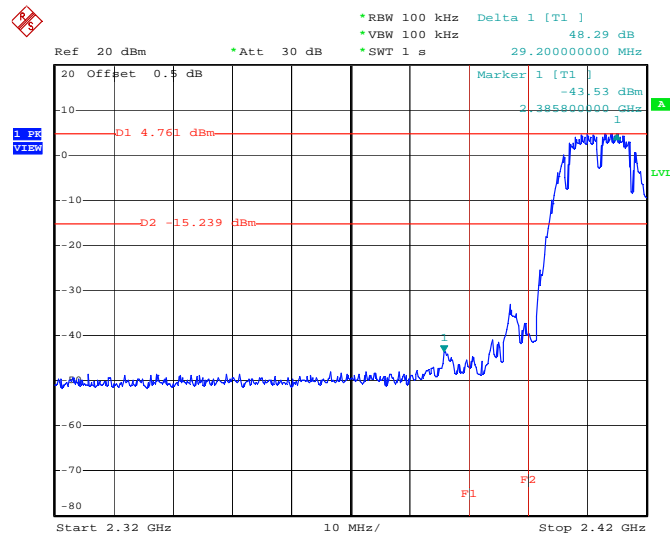
Date: 19.AUG.2008 12:17:06

High Band Edge Plot on Configuration Drafft n MCS0 40MHz Ant. B / 2452 MHz



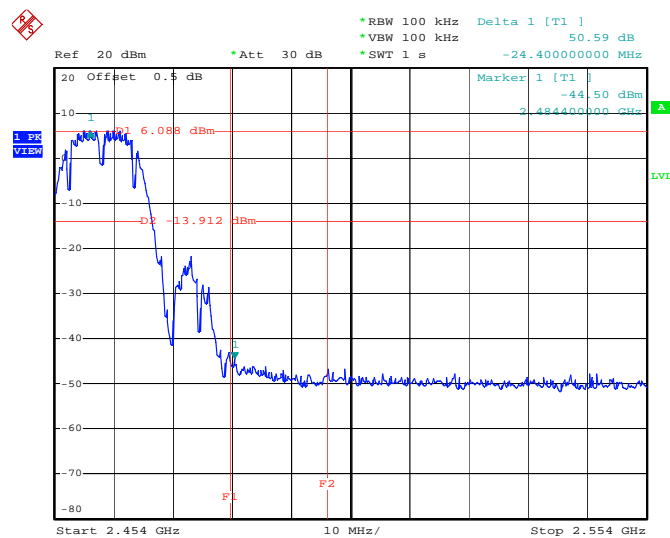
Date: 19.AUG.2008 12:19:56

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



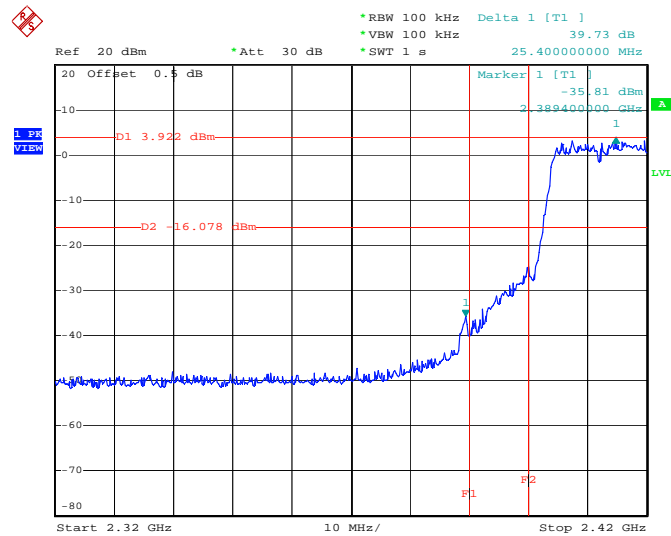
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High Band Edge Plot on Configuration IEEE 802.11b Ant. B / 2462 MHz



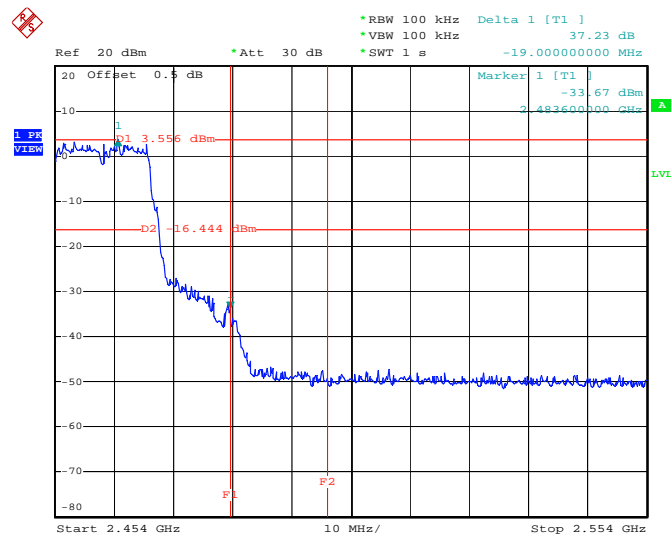
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Low Band Edge Plot on Configuration IEEE 802.11g Ant. B / 2412 MHz



Date: 19.AUG.2008 12:04:42

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



Date: 19.AUG.2008 12:08:06

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	Mar. 03, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN ST08	21653	9kHz – 30MHz	Mar. 27, 2008	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. 14, 2008	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 14, 2008	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jul. 21, 2008	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Jan. 22, 2007*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004	9 kHz - 40 GHz	Sep. 27, 2007	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. 12, 2008	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 04, 2008	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.18, 2008	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 03, 2007	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	Jan. 10, 2008	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 11, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jul. 11, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 11, 2008	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 30, 2008*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2008	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 01, 2007	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2007	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2007	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Nov. 14, 2007	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 10, 2008	Conducted (TH01-HY)
oscilloscope	Tektonix	TDS380	B016197	400MHz/ 2GS/s	Jun. 27, 2008	Conducted (TH01-HY)


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

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

6. TEST LOCATION

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 886-2-2696-2468 FAX : 886-2-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 886-2-2601-1640 FAX : 886-2-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihsu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 886-2-2631-4739 FAX : 886-2-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 886-2-2794-8886 FAX : 886-2-2794-9777
JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

7. TAF CERTIFICATE OF ACCREDITATION



Certificate No. : LI190-070110

財團法人全國認證基金會
Taiwan Accreditation Foundation


Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien,
Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	: ISO/IEC 17025:2005
Accreditation Number	: 1190
Originally Accredited	: December 15, 2003
Effective Period	: January 10, 2007 to January 09, 2010
Accredited Scope	: Testing Field, see described in the Appendix
Specific Accreditation Program	: Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory



Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 10, 2007

P1, total 9 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.