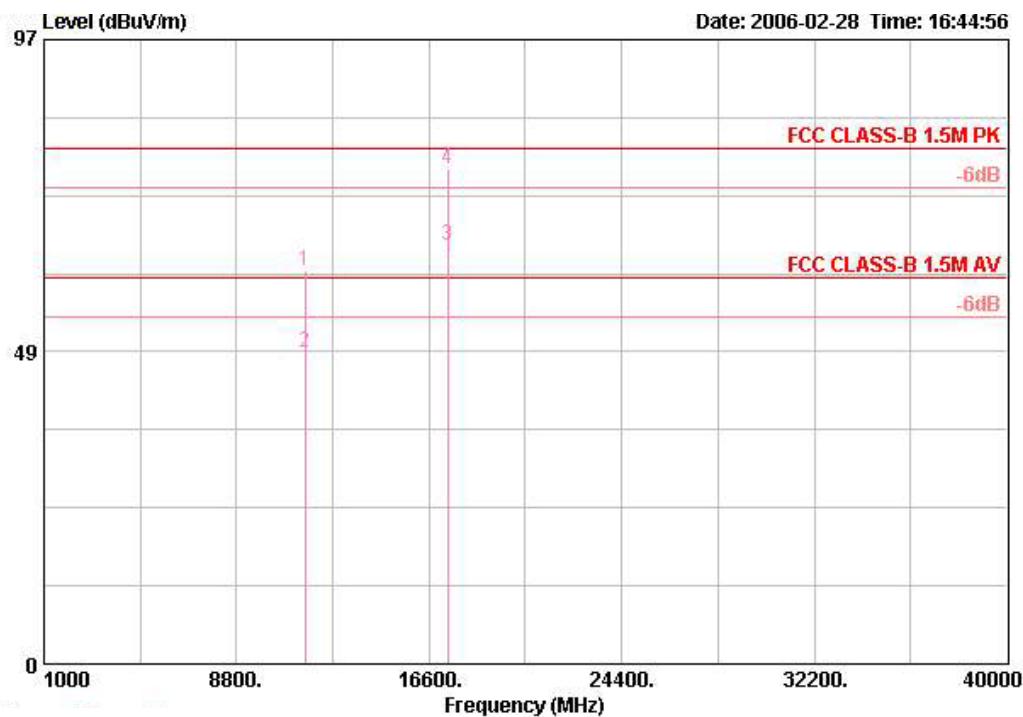


Horizontal

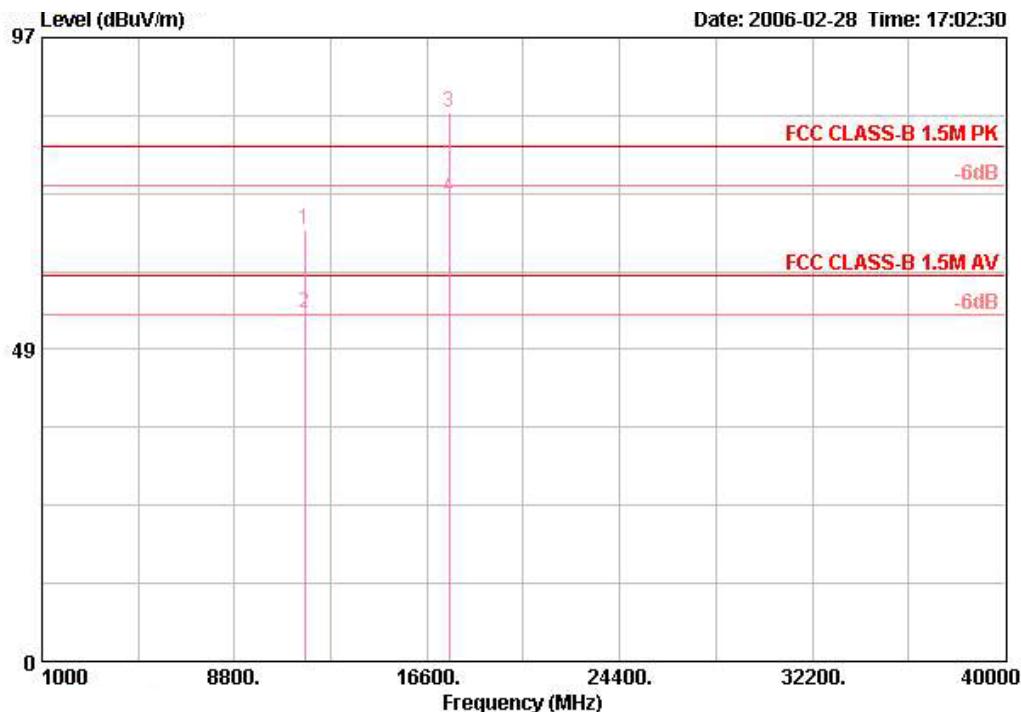


Freq	Level	Over Limit	Antenna Line Factor	Cable Preamp		Read Level	Remark	Ant Pos	Table Pos		
				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV
1 @	11572.800	61.11	-18.89	80.00	39.21	7.06	35.13	49.97	PEAK	126	320
2 @	11573.320	48.33	-11.67	60.00	39.21	7.06	35.13	37.20	AVERAGE	126	320
3 @	17359.160	64.98			41.44	17.41	35.05	41.19	AVERAGE	126	293
4 @	17359.160	76.83	-3.17	80.00	41.44	17.41	35.05	53.03	PEAK	126	293

Note: Item 3 is on un-restricted band, so the limit is -20dBc for the field strength of fundamental emission.

Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11a Channel 165 / Ant. 12

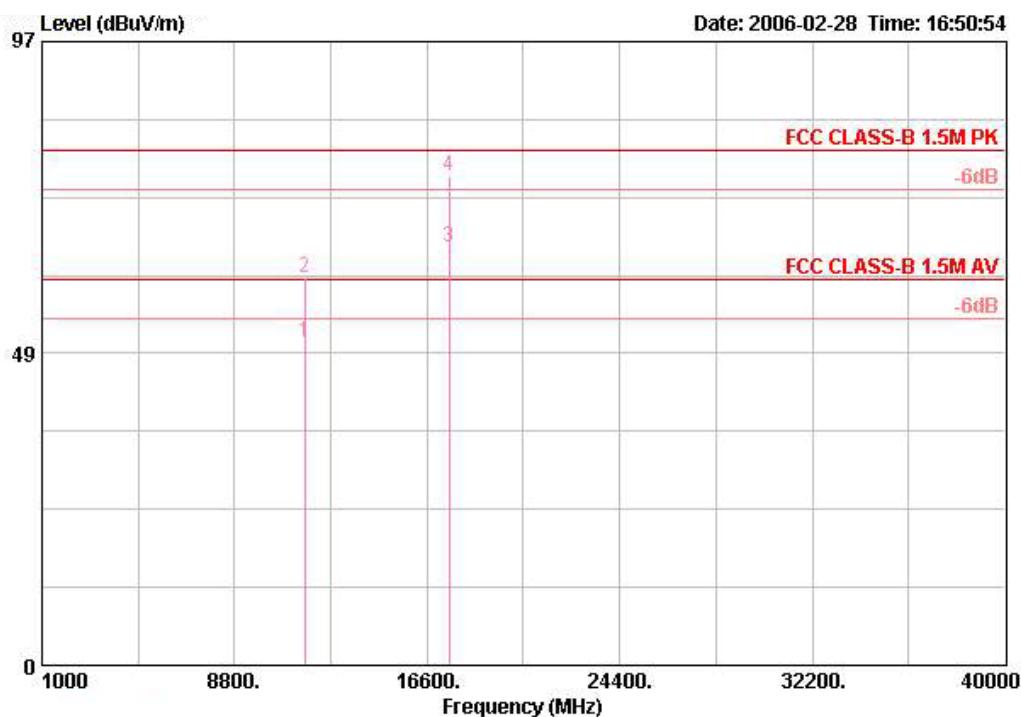
Vertical



Freq	Level	Over Limit	Antenna Line Factor	Cable Preamp		Read Level		Ant Pos	Table Pos
				dB	dB/m	dB	dBuV		
MHz	dBuV/m							cm	deg
1 @	11654.040	67.05	-12.95	80.00	39.23	7.15	35.16	55.83 PEAK	122 244
2 @	11656.160	54.22	-5.78	60.00	39.23	7.15	35.16	43.00 AVERAGE	122 244
3 @	17477.680	85.28			41.95	16.42	35.09	62.00 PEAK	120 241
4 @	17480.400	72.21			41.95	16.42	35.09	48.93 AVERAGE	120 241

Note: Item 3, 4 are on un-restricted band, so the limit is -20dBc for the field strength of fundamental emission.

Horizontal

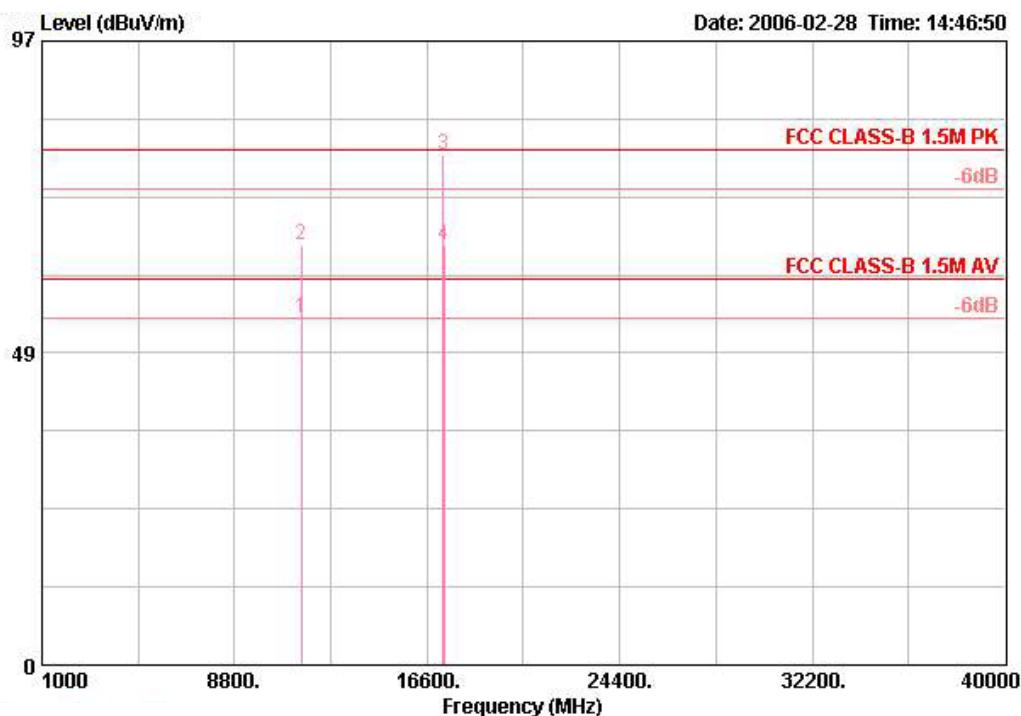


Freq	Level	Over Limit	Antenna Line Factor	Cable Preamp		Read Level	Remark	Ant Pos	Table Pos		
				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV
1 @	11650.160	50.16	-9.84	60.00	39.23	7.15	35.16	38.94	AVERAGE	134	306
2 @	11650.160	60.30	-19.70	80.00	39.23	7.15	35.16	49.09	PEAK	134	306
3 @	17476.680	64.96			41.95	16.66	35.09	41.43	AVERAGE	139	268
4 @	17476.680	76.23	-3.77	80.00	41.95	16.66	35.09	52.70	PEAK	139	268

Note: Item 3 is on un-restricted band, so the limit is -20dBc for the field strength of fundamental emission.

Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11a Turbo Channel 152 / Ant. 12

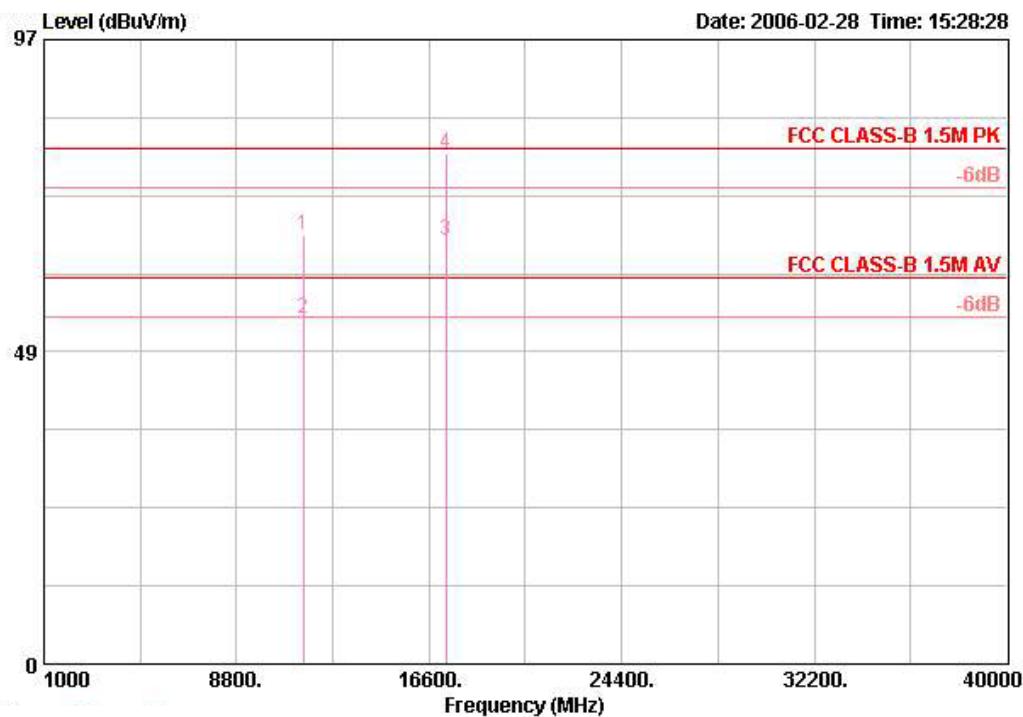
Vertical



Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table		
		Line	Factor	Loss	Factor	Level	Remark				
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg	
1 @	11518.400	53.80	-6.20	60.00	39.20	7.01	35.10	42.69	AVERAGE	112	239
2 @	11518.400	65.37	-14.63	80.00	39.20	7.01	35.10	54.26	PEAK	112	239
3 @	17258.800	79.20	-0.80	80.00	41.00	17.90	35.01	55.30	PEAK	122	312
4 @	17272.400	65.38			41.07	17.90	35.01	41.41	AVERAGE	122	312

Note: Item 4 is on un-restricted band, so the limit is -20dBc for the field strength of fundamental emission.

Horizontal

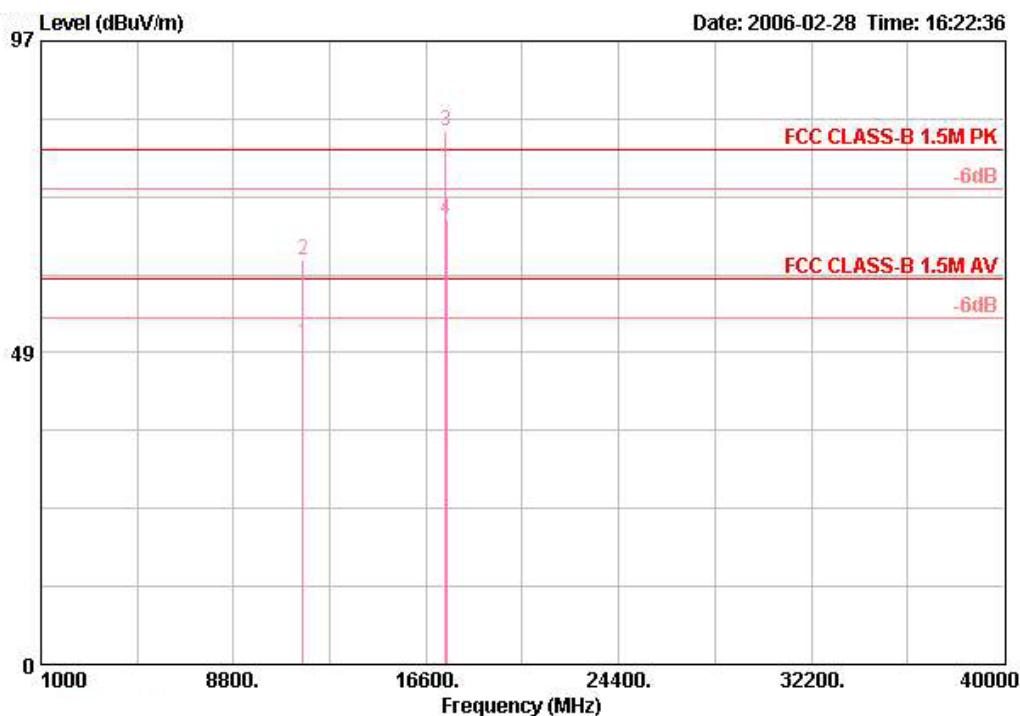


Freq	Level	Over Limit	Antenna Line Factor	Cable Preamp		Read Level	Remark	Ant Pos	Table Pos		
				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV
1 @	11518.900	66.61	-13.39	80.00	39.20	7.01	35.11	55.51	PEAK	100	280
2 @	11519.100	53.70	-6.30	60.00	39.20	7.01	35.11	42.60	AVERAGE	100	280
3 @	17275.300	65.70			41.07	17.90	35.01	41.73	AVERAGE	100	280
4 @	17276.200	79.28	-0.72	80.00	41.07	17.90	35.01	55.31	PEAK	100	280

Note: Item 3 is on un-restricted band, so the limit is -20dBc for the field strength of fundamental emission.

Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11a Turbo Channel 160 / Ant. 12

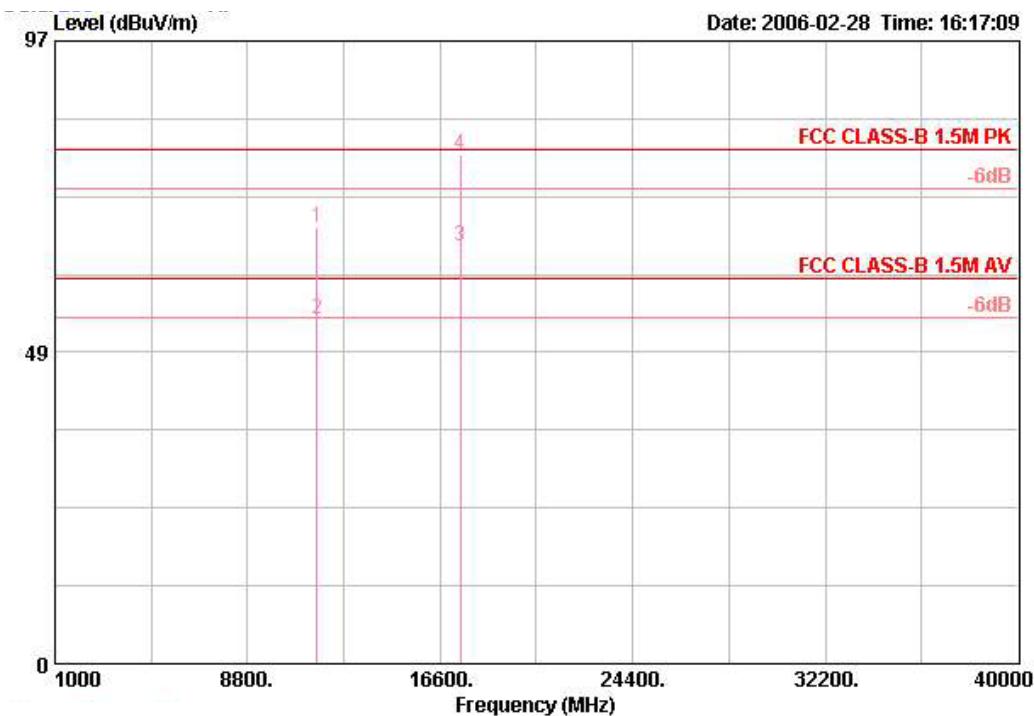
Vertical



Freq	Level	Over Limit	Antenna Line Factor	Cable Preamp			Read Level	Remark	Ant Pos	Table Pos	
				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	deg	
1 @	11602.100	49.98	-10.02	60.00	39.22	7.10	35.14	38.80	AVERAGE	125	247
2 @	11602.600	62.81	-17.19	80.00	39.22	7.10	35.14	51.63	PEAK	125	247
3 @	17391.500	82.87			41.59	17.16	35.06	59.18	PEAK	126	318
4 @	17407.100	69.13			41.66	16.91	35.06	45.62	AVERAGE	126	318

Note: Item 3, 4 are on un-restricted band, so the limit is -20dBc for the field strength of fundamental emission.

Horizontal



Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table	
		Limit	Line Factor	Loss	Factor	Level	Remark			
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg	
1 @	11602.100	68.03	-11.97	80.00	39.22	7.10	35.14	56.85 PEAK	100	282
2 @	11602.300	53.72	-6.28	60.00	39.22	7.10	35.14	42.53 AVERAGE	100	282
3 @	17407.300	64.95			41.66	16.91	35.06	41.44 AVERAGE	100	276
4 @	17413.000	79.26	-0.74	80.00	41.66	16.91	35.07	55.76 PEAK	100	276

Note: Item 3 is on un-restricted band, so the limit is -20dBc for the field strength of fundamental emission.

Note:

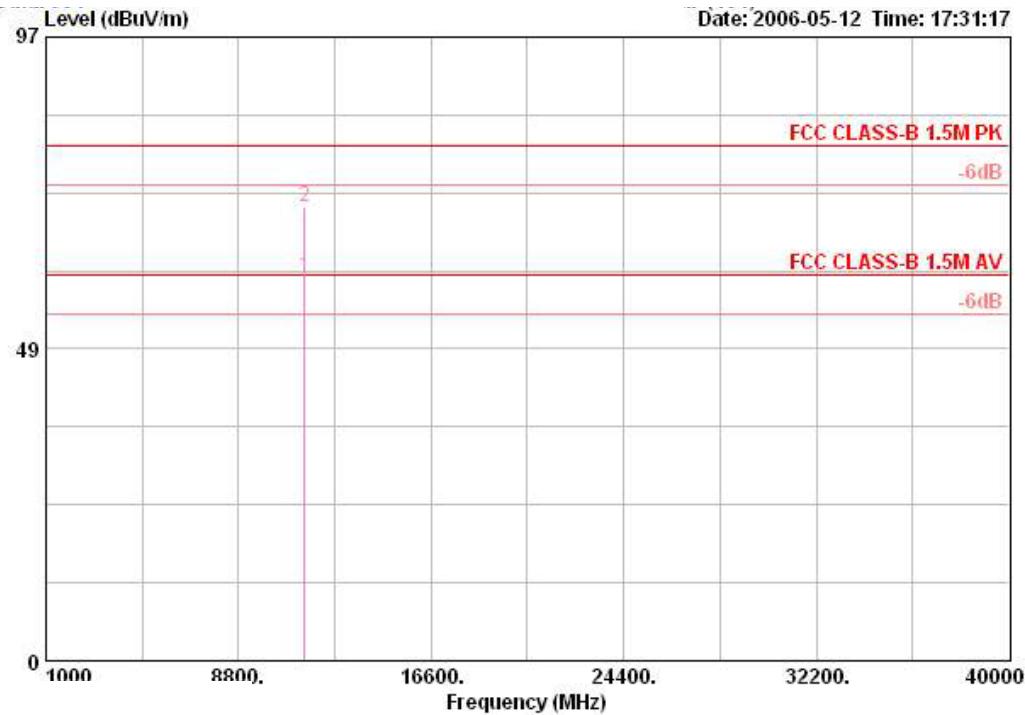
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

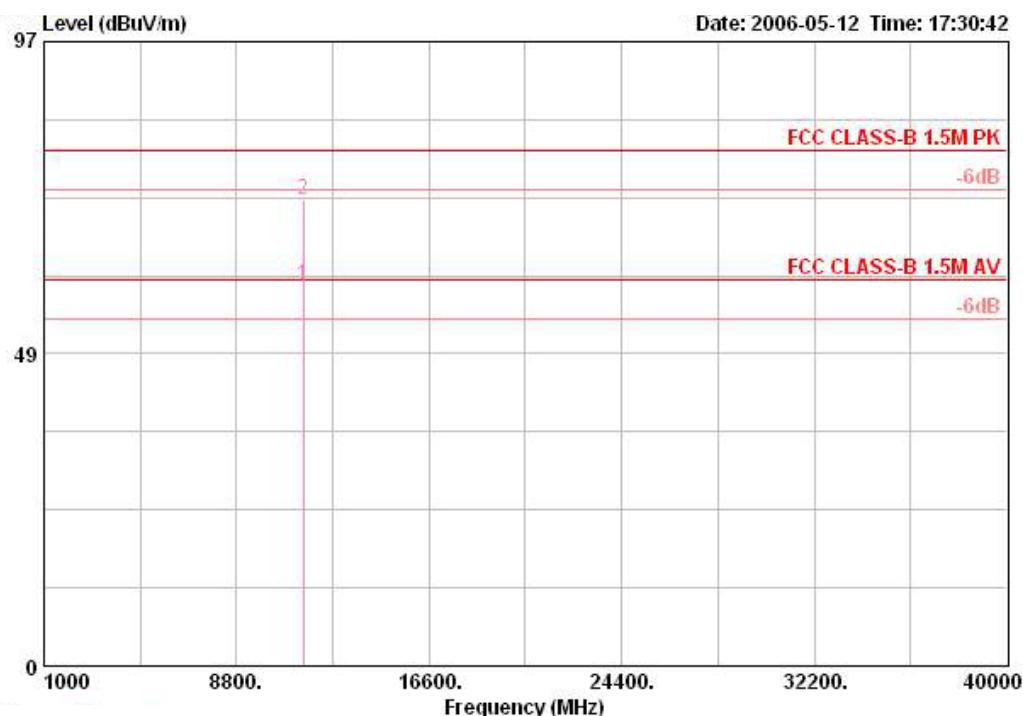
Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11a Channel 149 / Ant. 13

Vertical



Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table
		Line	Factor	Loss	Factor	Level	Remark		
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg
1	11489.000	59.76	-0.24	60.00	39.20	6.96	35.10	48.70	AVERAGE
2	11489.000	70.59	-9.41	80.00	39.20	6.96	35.10	59.53	PEAK
								102	344

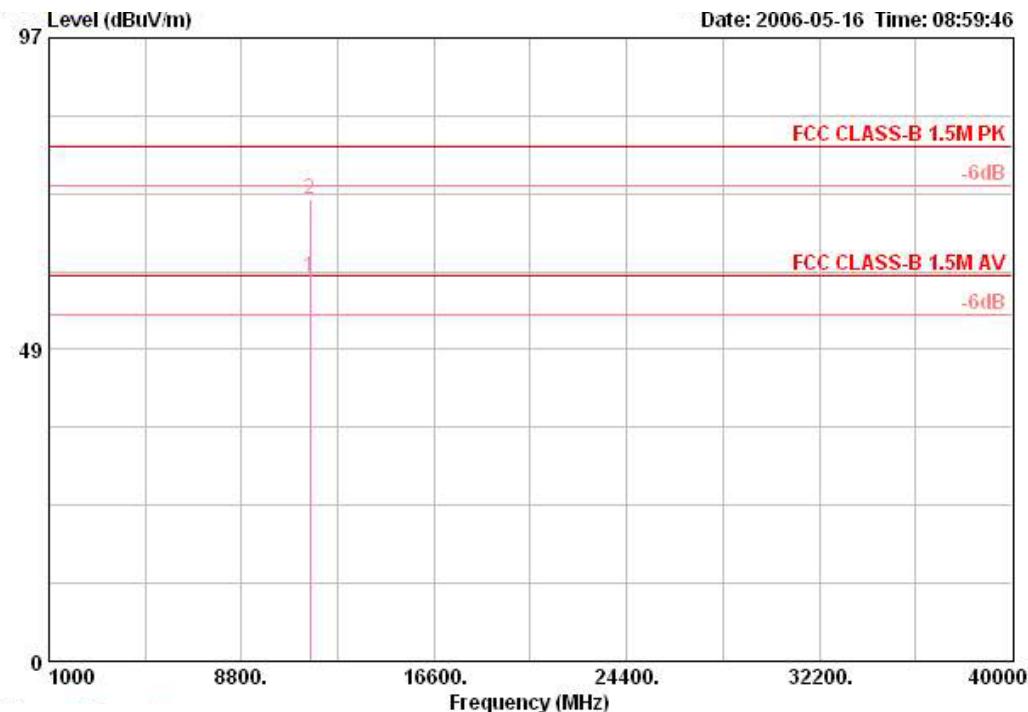
Horizontal



Freq	Level	Over Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read		Ant Pos	Table Pos
						dB	dBuV/m		
				dB	dB	dB	dBuV	cm	deg
1 @	11490.700	59.28	-0.72	60.00	39.20	6.96	35.10	48.22	AVERAGE
2	11490.700	72.47	-7.53	80.00	39.20	6.96	35.10	61.41	PEAK

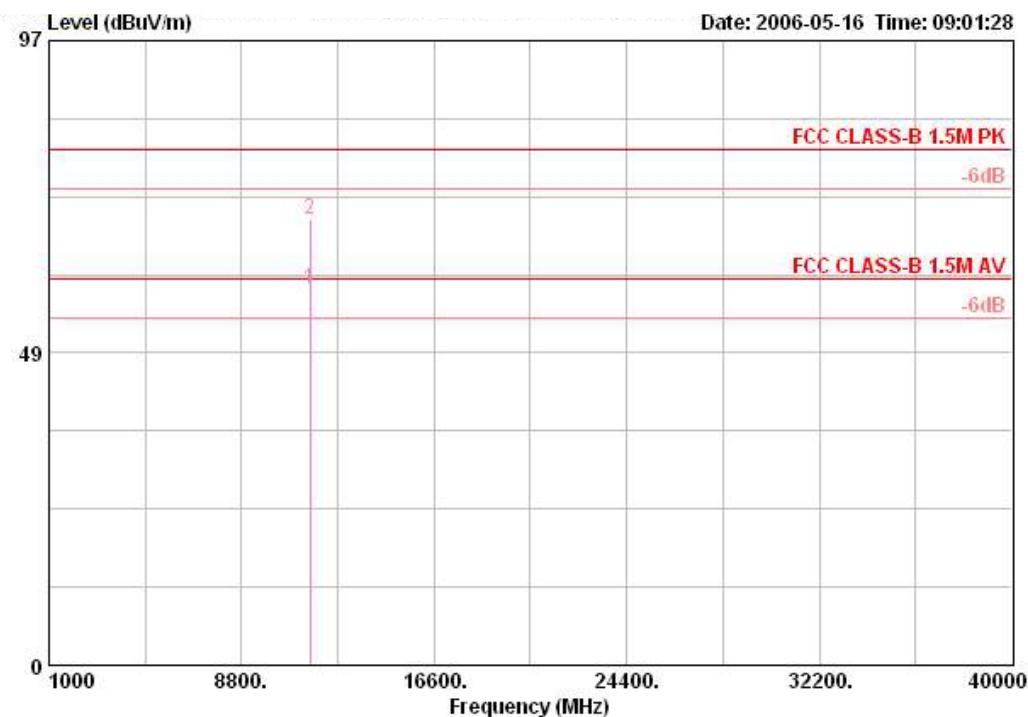
Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11a Channel 157 / Ant. 13

Vertical



Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant	Table
								Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg
1 @	11570.440	59.85	-0.15	60.00	39.21	7.06	35.13	48.72	AVERAGE
2	11570.440	71.93	-8.07	80.00	39.21	7.06	35.13	60.79	PEAK

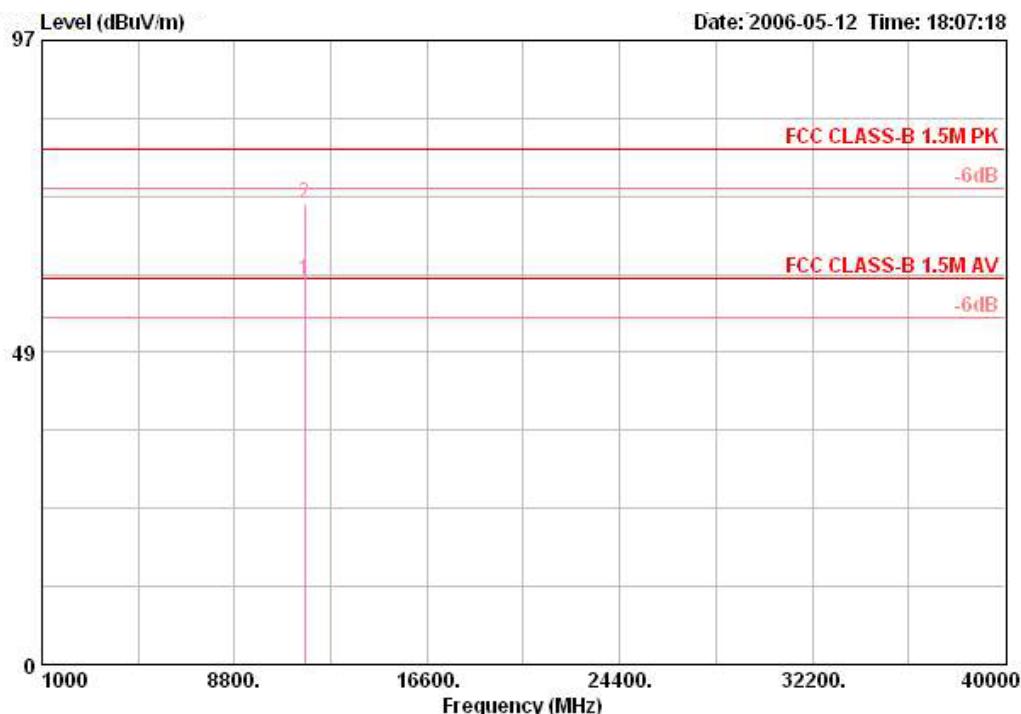
Horizontal



Freq	Level	Over Limit		Antenna Line Factor	Cable Loss Factor	Preamp	Read Level	Remark	Ant Pos	Table Pos	
		MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg
1 @	11571.800	58.32	-1.68	60.00	39.21	7.06	35.13	47.18	AVERAGE	100	322
2	11571.800	69.12	-10.88	80.00	39.21	7.06	35.13	57.98	PEAK	100	322

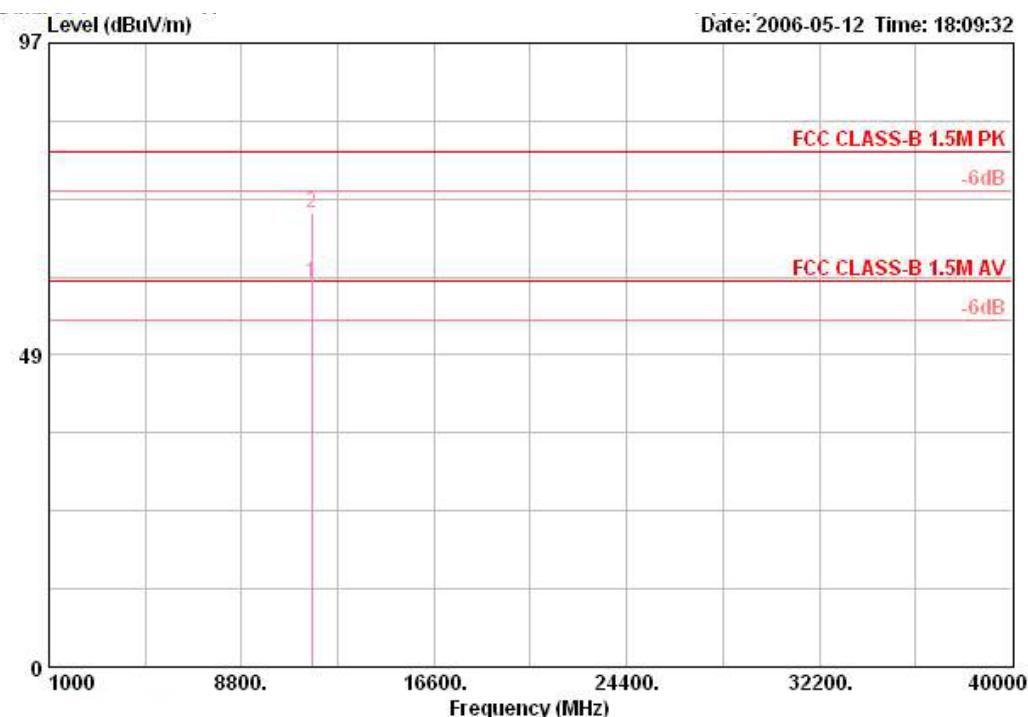
Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11a Channel 165 / Ant. 13

Vertical



Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table
		Line	Factor	Loss	Factor	Level	Remark		
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg
11650.960	59.83	-0.17	60.00	39.23	7.15	35.16	48.62	AVERAGE	110 347
11650.960	71.65	-8.35	80.00	39.23	7.15	35.16	60.44	PEAK	110 347

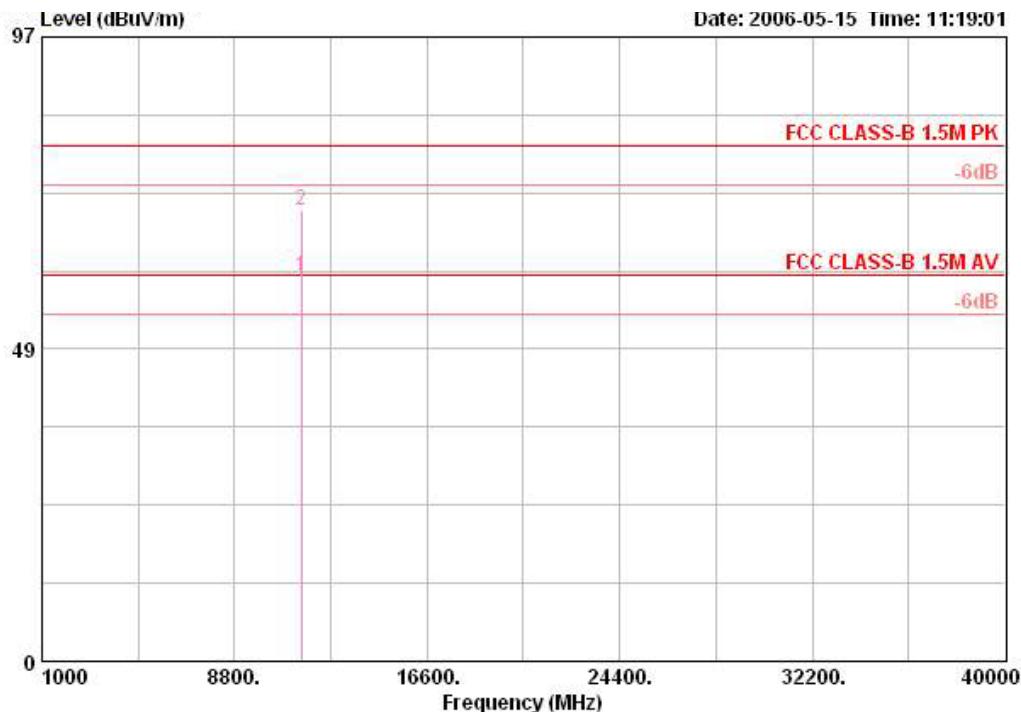
Horizontal



Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table		
		Limit	Line	Factor	Loss	Factor	Level				
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg		
1	11650.840	59.84	-0.16	60.00	39.23	7.15	35.16	48.62	AVERAGE	100	24
2	11650.840	70.47	-9.53	80.00	39.23	7.15	35.16	59.25	PEAK	100	24

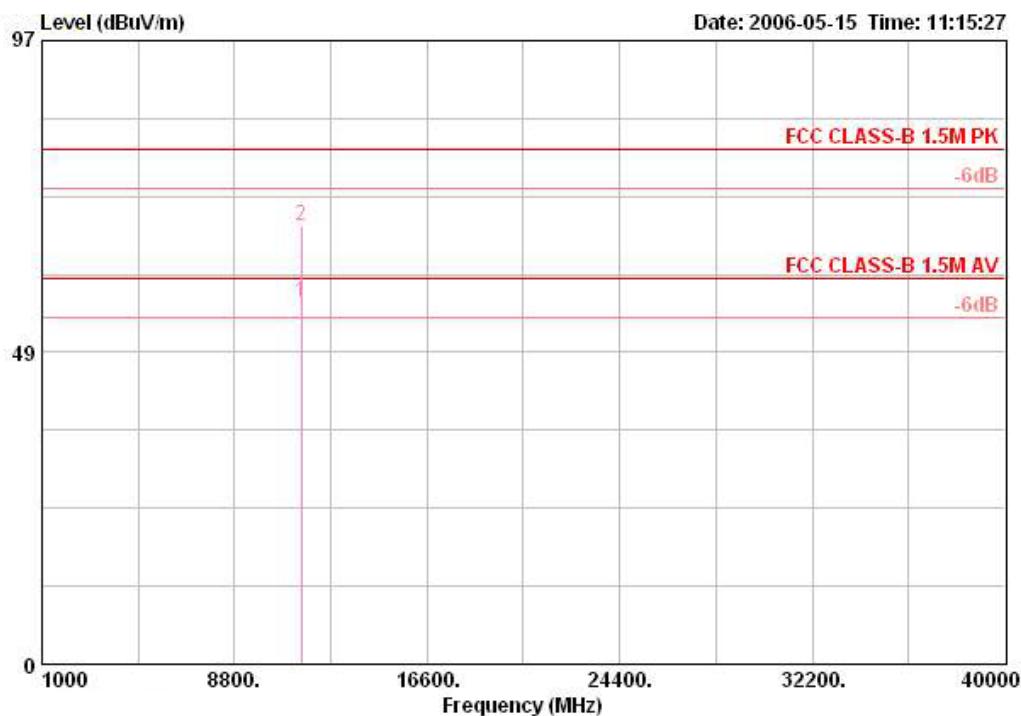
Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11a Turbo Channel 152 / Ant. 13

Vertical



Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table		
		Line	Factor	Line	Loss	Factor	Level				
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg		
1 1	11519.400	59.80	-0.20	60.00	39.20	7.01	35.11	48.70	AVERAGE	100	341
2	11519.400	69.92	-10.08	80.00	39.20	7.01	35.11	58.82	PEAK	100	341

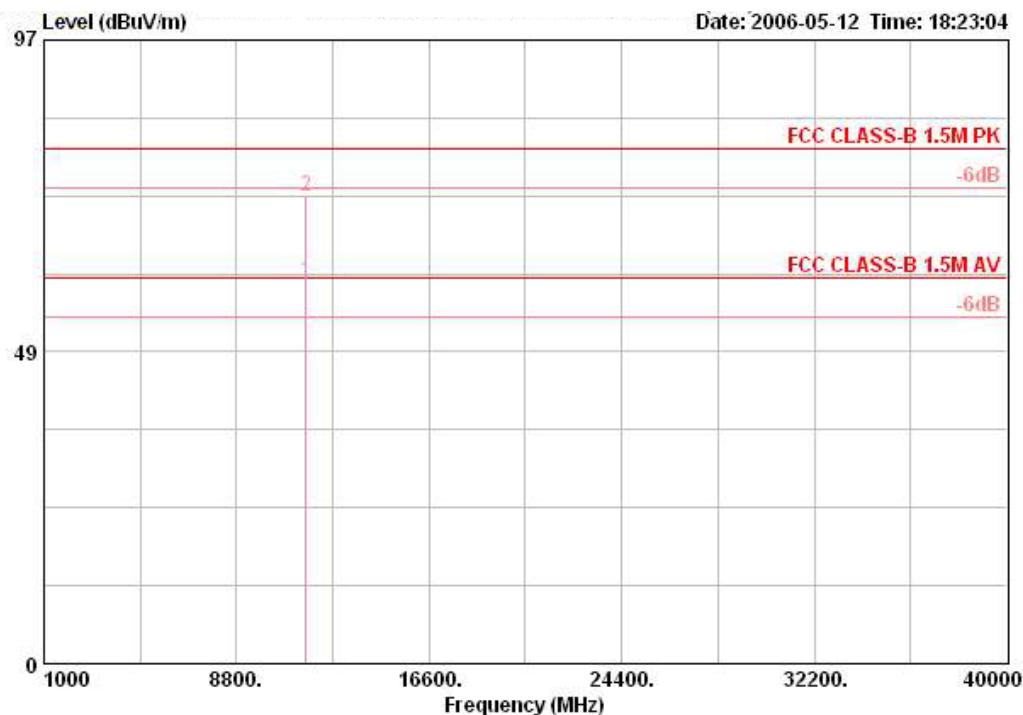
Horizontal



Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant	Table
								Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg
1 1	11521.300	56.18	-3.82	60.00	39.20	7.01	35.11	45.08	AVERAGE
2	11521.300	68.32	-11.68	80.00	39.20	7.01	35.11	57.22	PEAK

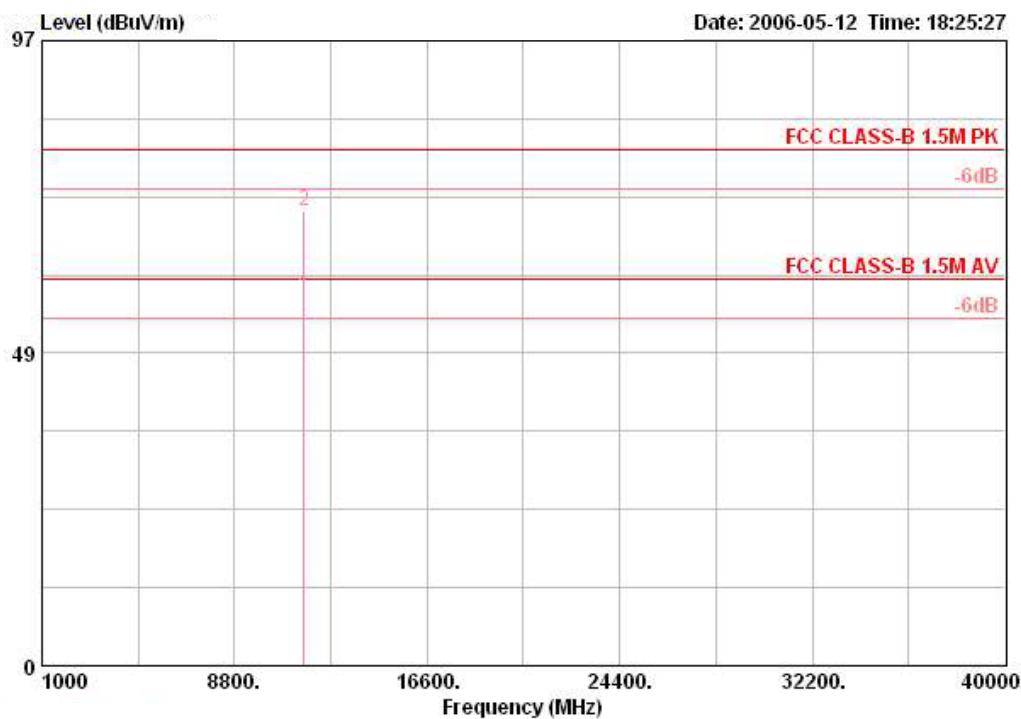
Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11a Turbo Channel 160 / Ant. 13

Vertical



Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant	Table
								Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	
1	11602.400	59.46	-0.54	60.00	39.22	7.10	35.14	48.28	AVERAGE
2	11602.400	72.71	-7.29	80.00	39.22	7.10	35.14	61.53	PEAK

Horizontal



Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant	Table
								Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg
1	11602.000	57.26	-2.74	60.00	39.22	7.10	35.14	46.08	AVERAGE
2	11602.000	70.50	-9.50	80.00	39.22	7.10	35.14	59.32	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.

4.6. 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 (microvolt/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 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)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	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.

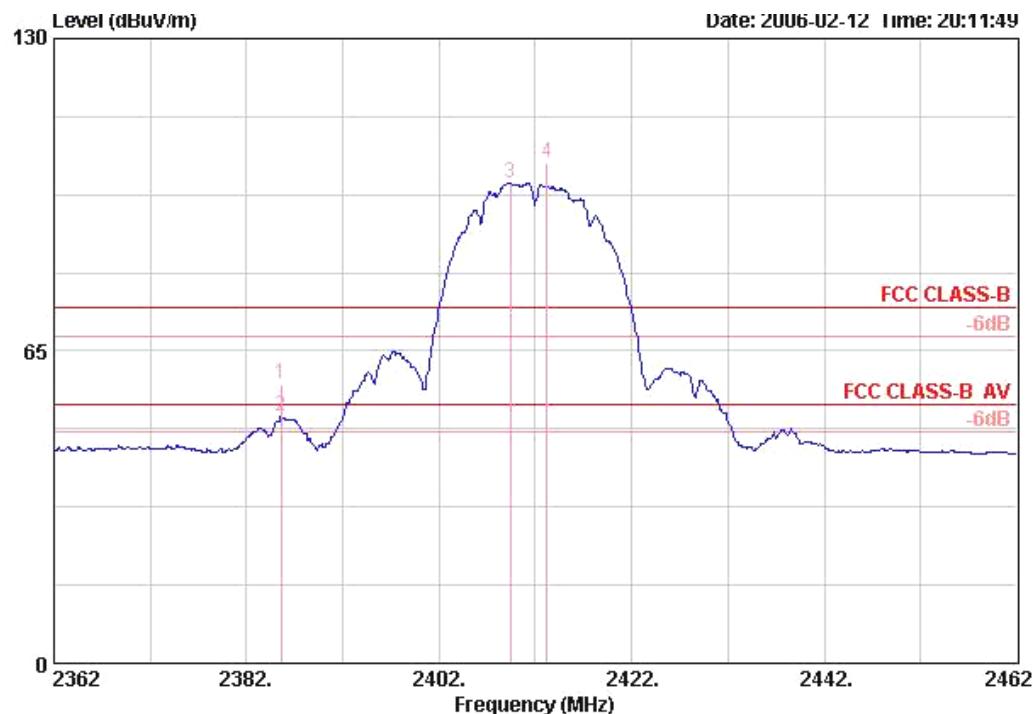
4.6.6. EUT Operation during Test

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	Rush Kao	Configurations	802.11b Channel 1, 11/ Ant. 1/2

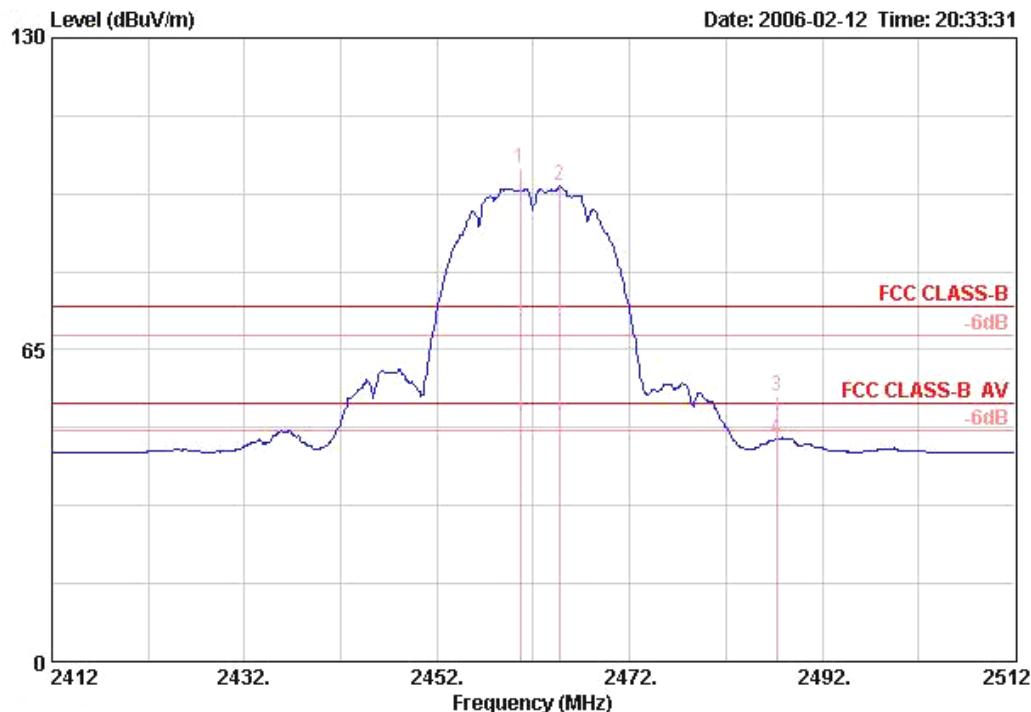
Channel 1



Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant	Table	
								Pos	Pos	
1 @	2385.600	58.19	-15.81	74.00	28.13	2.58	0.00	27.48 PEAK	125	-22
2 @	2385.600	51.20	-2.80	54.00	28.13	2.58	0.00	20.49 AVERAGE	125	-22
3 @	2409.400	99.97			28.18	2.58	0.00	69.22 Average	---	---
4 @	2413.200	104.25			28.18	2.58	0.00	73.50 PEAK	125	-22

Channel 1 is fundamental frequency at 2412 MHz.

Channel 11



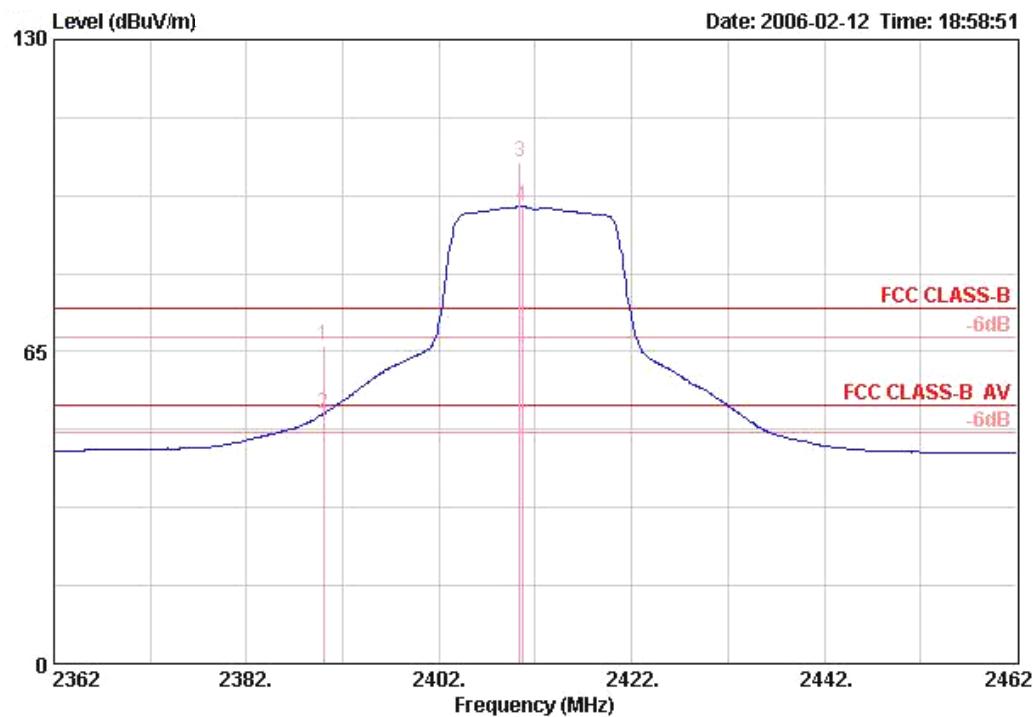
Freq	Level	Over Limit	Antenna Line Factor	Cable Preamp		Read Level	Remark	Ant Pos	Table Pos			
				MHz	dBuV/m	dB	dBuV/m	dB	dB	dBuV	cm	deg
1 @	2460.600	102.73				28.31	2.60	0.00	71.82	PEAK	117	291
2 @	2464.700	99.03				28.31	2.62	0.00	68.10	Average	---	---
3 @	2487.300	55.41	-18.59	74.00	28.36	2.62	0.00	24.43	PEAK	117	291	
4 @	2487.300	46.46	-7.54	54.00	28.36	2.62	0.00	15.48	AVERAGE	117	291	

Channel 11 is fundamental frequency at 2462 MHz.



Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11g Channel 1, 11/ Ant. 1/2

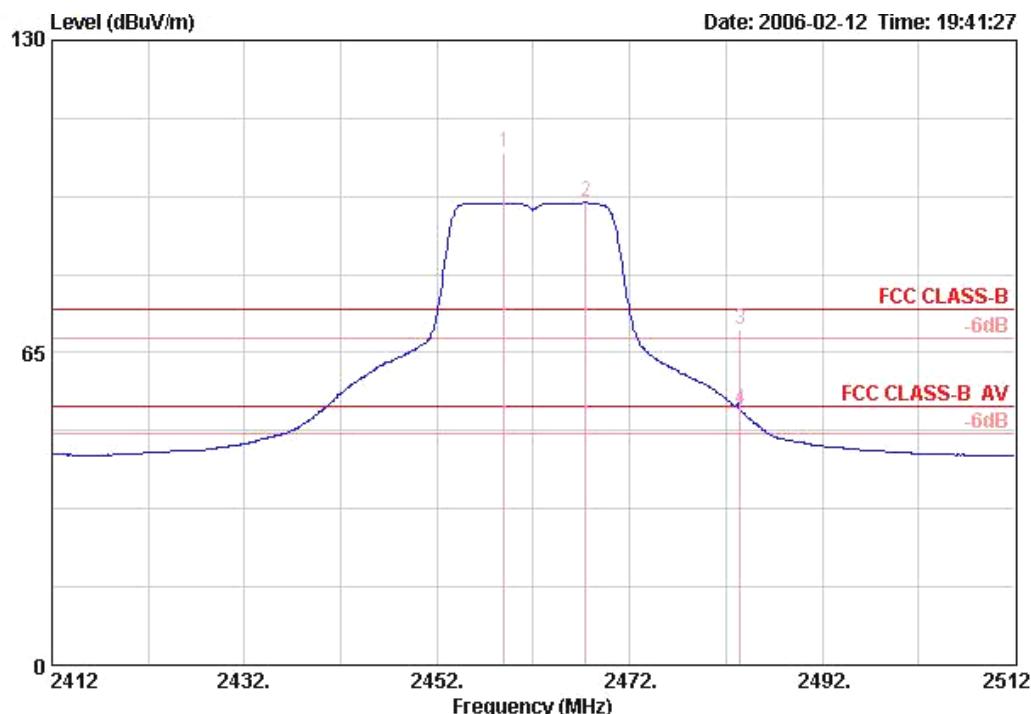
Channel 1



Freq	Level	Limit	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table	
			dB	dBuV/m	Line Factor	Loss Factor	dB	dB	Level	Pos	
	MHz	dBuV/m		dB	dBuV/m	dB/m			cm	deg	
1 @	2390.000	66.39	-7.61	74.00	28.13	2.58	0.00	35.69	PERK	128	203
2 @	2390.000	52.00	-2.00	54.00	28.13	2.58	0.00	21.29	AVERAGE	128	203
3 @	2410.400	104.62			28.18	2.58	0.00	73.87	PERK	128	203
4 @	2410.600	95.19			28.18	2.58	0.00	64.44	Average	---	---

Channel 1 is fundamental frequency at 2412 MHz.

Channel 11

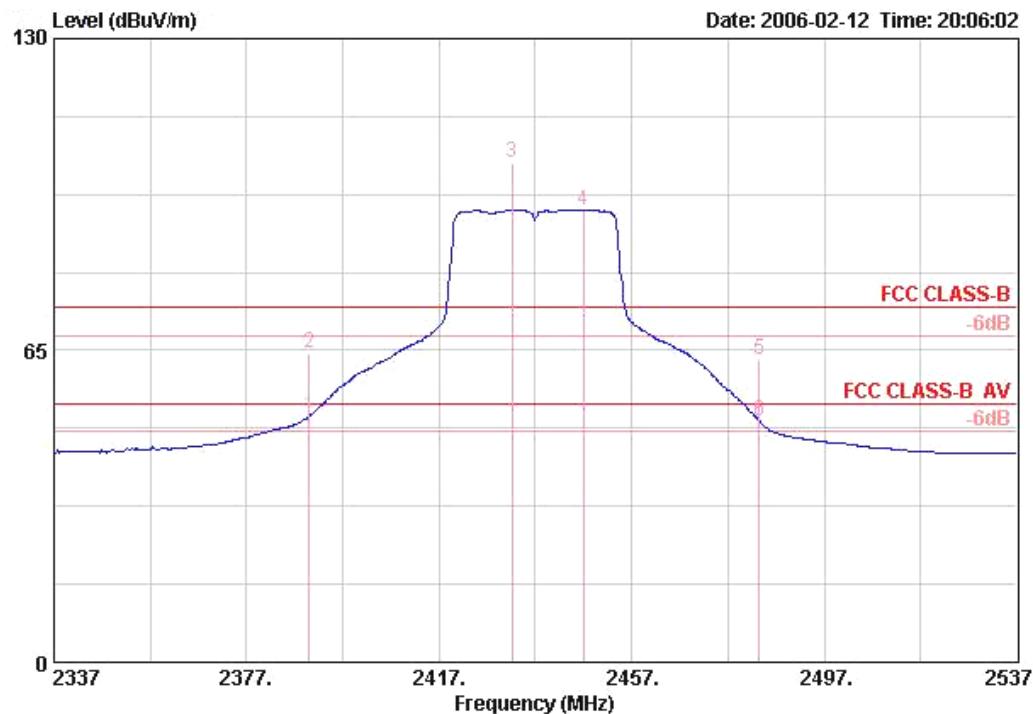


Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Table	
							Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg
1 @	2458.970	106.69		28.31	2.60	0.00	75.79	PERK
2 @	2467.454	96.19		28.31	2.62	0.00	65.26	Average
3 @	2483.500	69.73	-4.27	74.00	28.36	2.62	0.00	38.76
4 @	2483.500	53.27	-0.73	54.00	28.36	2.62	0.00	22.30
							121	327
							---	---
							121	327
							121	327

Channel 11 is fundamental frequency at 2462 MHz.

Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11g Turbo Channel 6/ Ant. 1/2

Turbo Channel 6



Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant	Table
								Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg
1 @	2390.000	51.35	-2.65	54.00	28.13	2.58	0.00	20.64	AVERAGE
2 @	2390.000	64.57	-9.43	74.00	28.13	2.58	0.00	33.86	PEAK
3 @	2432.200	103.98			28.22	2.60	0.00	73.16	PEAK
4 @	2447.000	94.36			28.27	2.60	0.00	63.50	Average
5 @	2483.500	63.06	-10.94	74.00	28.36	2.62	0.00	32.08	PEAK
6 @	2483.500	50.44	-3.56	54.00	28.36	2.62	0.00	19.46	AVERAGE

Channel 6 is fundamental frequency at 2437 MHz.

Note:

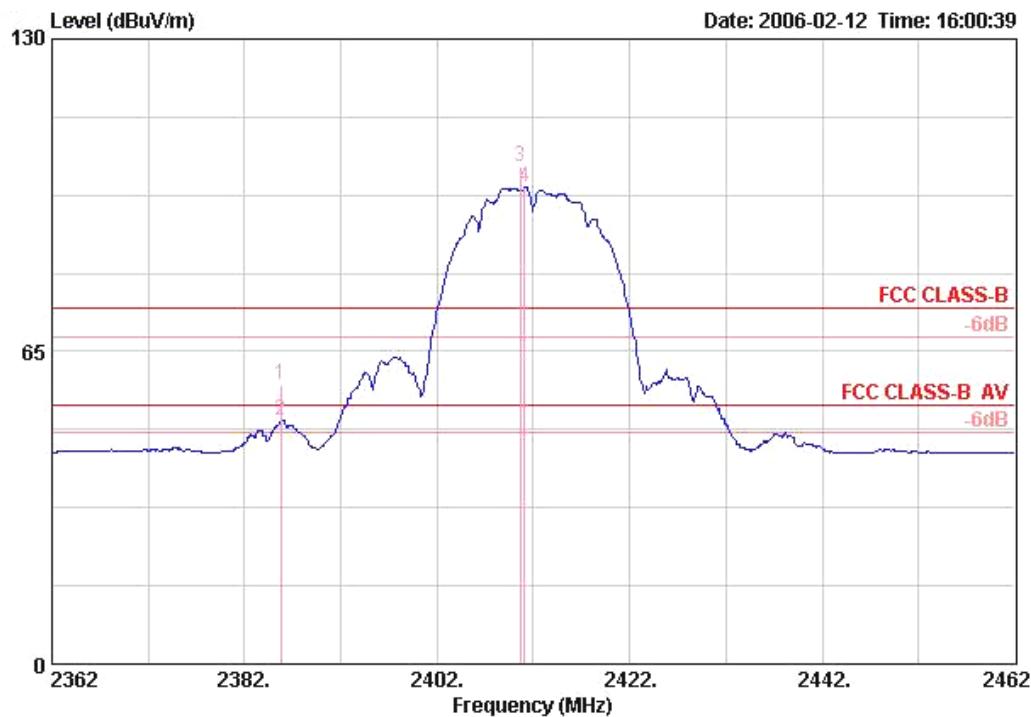
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Receiving maximum band edge emissions are Vertical Polarization

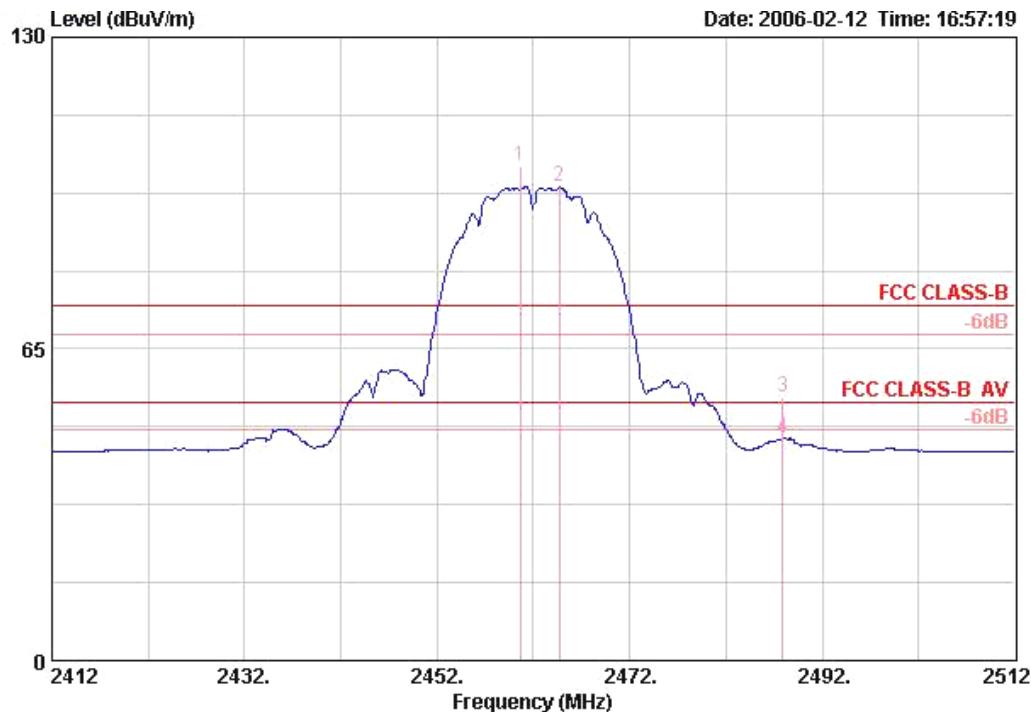
Temperature	24°C	Humidity	64%
Test Engineer	Rush Kao	Configurations	802.11b Channel 1, 11/Ant. 3

Channel 1



Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant	Table
								Pos	Pos
								cm	deg
1 @	2385.800	57.96	-16.04	74.00	28.13	2.58	0.00	27.25	PEAK
2 @	2385.800	50.79	-3.21	54.00	28.13	2.58	0.00	20.09	AVERAGE
3 @	2410.600	103.42			28.18	2.58	0.00	72.67	PEAK
4 @	2411.100	99.18			28.18	2.58	0.00	68.42	Average
								---	---

Channel 1 is fundamental frequency at 2412 MHz.

Channel 11


Freq	Level	Over Limit	Antenna Line Factor	Cable Loss Factor	Preamp Factor	Read Level	Remark	Ant	Table	
								Pos	Pos	
								cm	deg	
1 @	2460.600	102.98			28.31	2.60	0.00	72.07 PEAK	152	-8
2 @	2464.700	98.88			28.31	2.62	0.00	67.95 Average	---	---
3 @	2487.900	54.97	-19.03	74.00	28.40	2.62	0.00	23.95 PEAK	152	-8
4 @	2487.900	46.42	-7.58	54.00	28.40	2.62	0.00	15.40 AVERAGE	152	-8

Channel 11 is fundamental frequency at 2462 MHz.