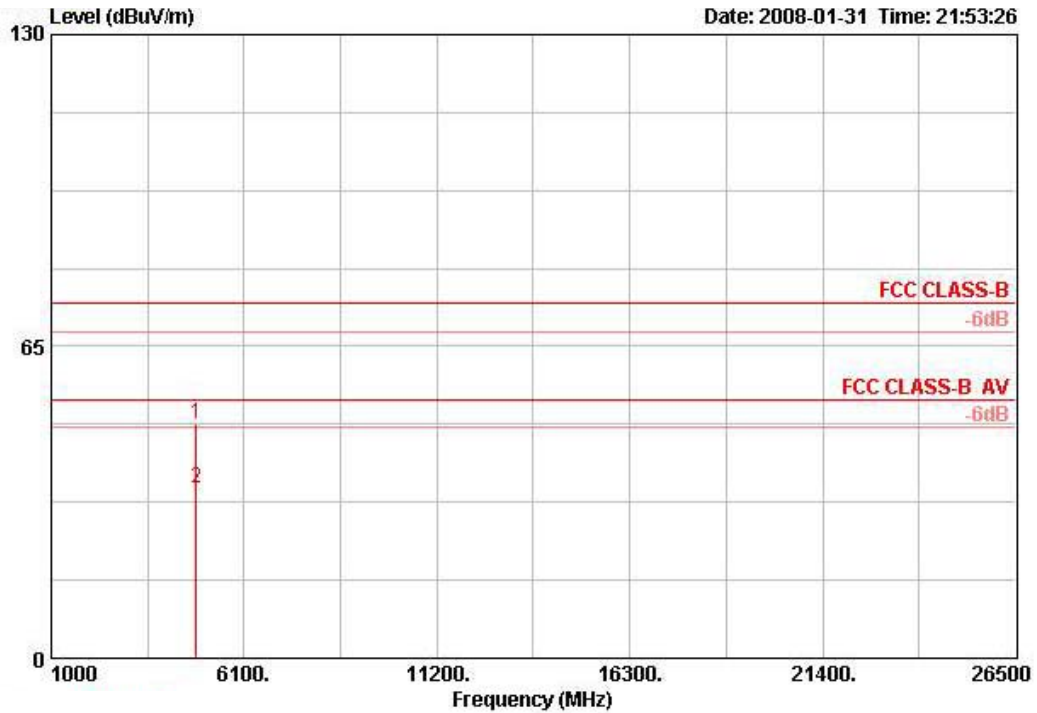


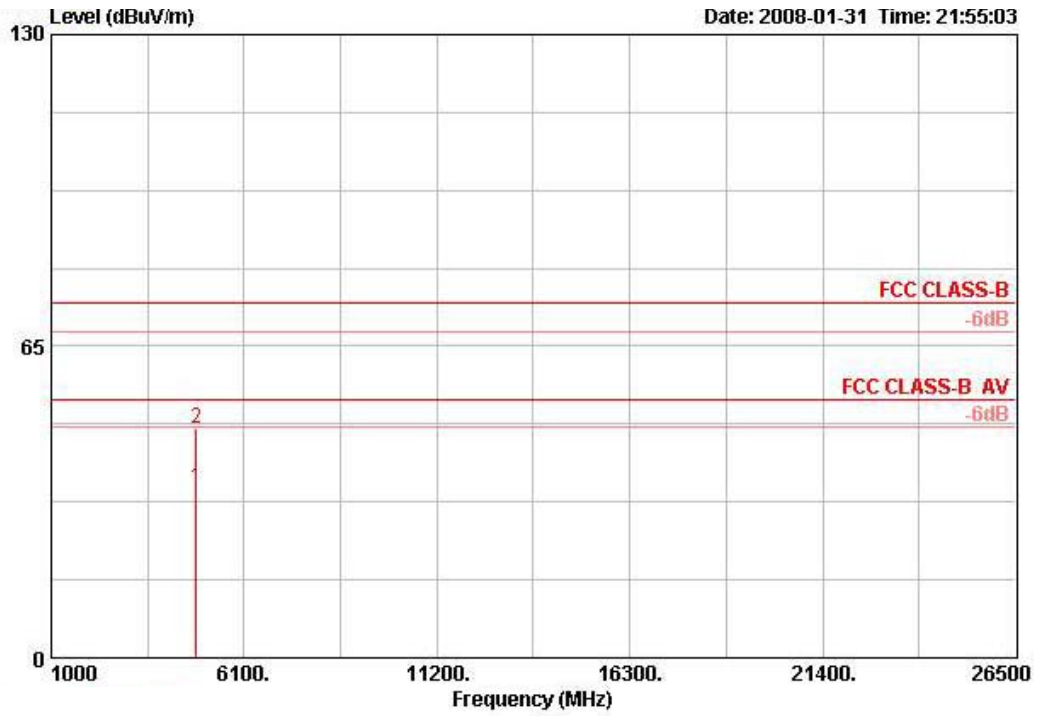
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 1 / Ant. A

Horizontal



	Freq	Level	Over Limit	Limit Line	Read 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	4823.300	48.80	-25.20	74.00	42.74	33.39	7.91	35.25	PEAK	100	105	HORIZONTAL
2	4824.000	35.46	-18.54	54.00	29.40	33.39	7.91	35.25	AVERAGE	100	105	HORIZONTAL

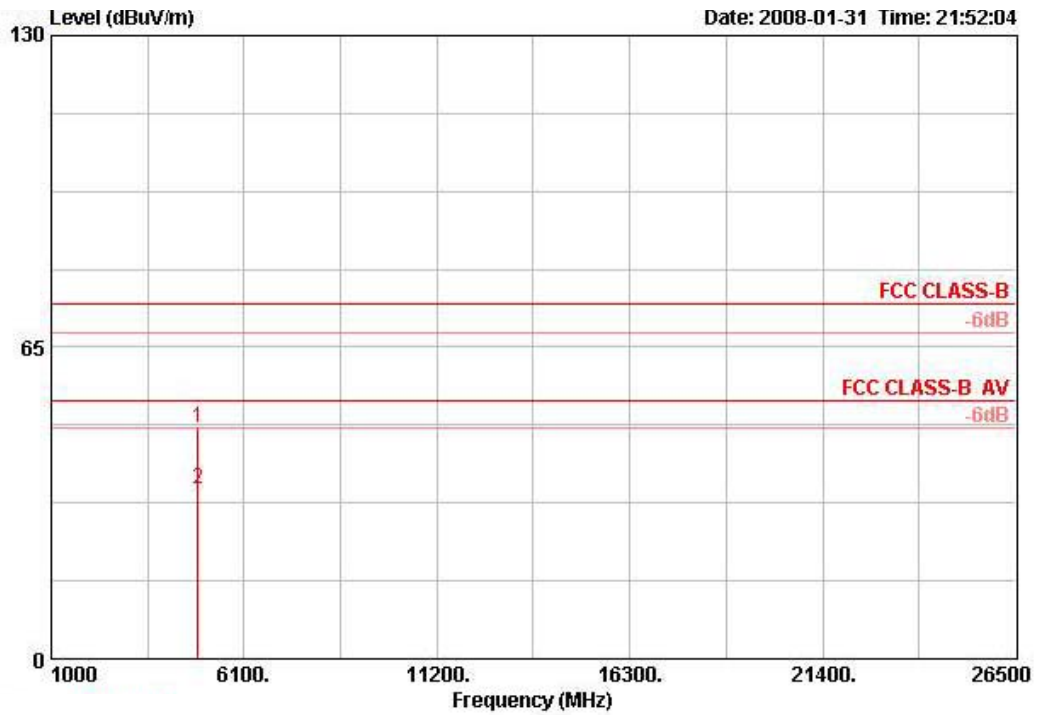
Vertical



	Freq	Level	Over Limit	Limit Line	Read 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 @	4823.300	35.31	-18.69	54.00	29.25	33.39	7.91	35.25	AVERAGE	100	270	VERTICAL
2	4825.820	47.88	-26.12	74.00	41.82	33.39	7.91	35.25	PEAK	100	270	VERTICAL

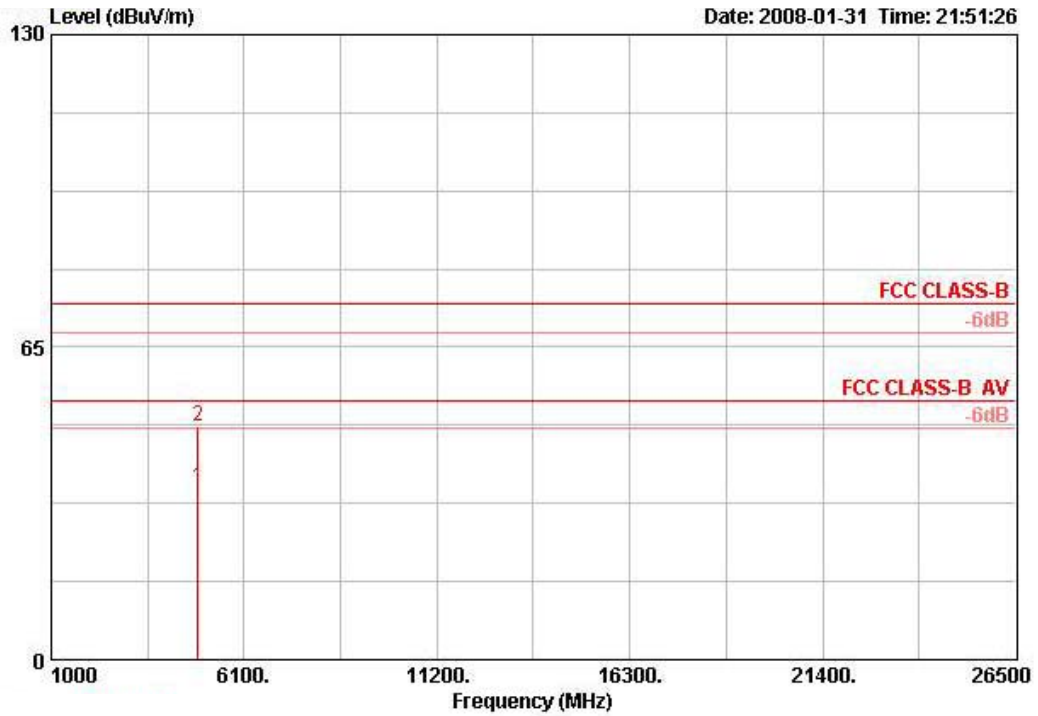
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 6 / Ant. A

Horizontal



	Freq	Level	Over Limit	Limit Line	Read 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	4873.020	48.02	-25.98	74.00	41.82	33.48	7.96	35.25	PEAK	100	96	HORIZONTAL
2 @	4873.760	35.39	-18.61	54.00	29.19	33.48	7.96	35.25	AVERAGE	100	96	HORIZONTAL

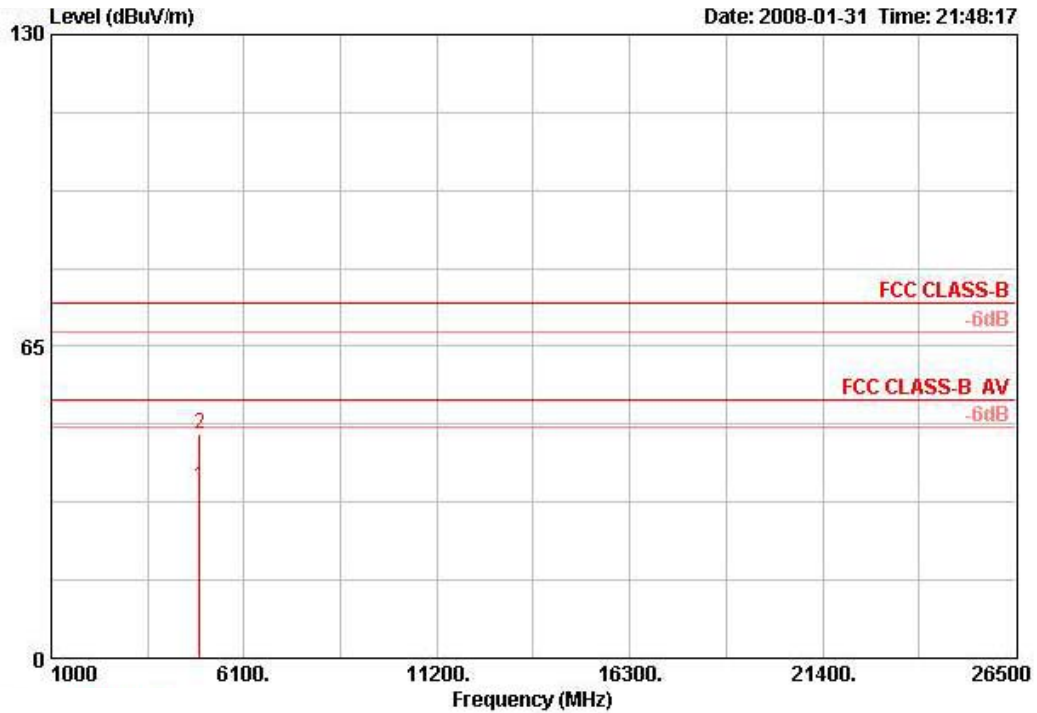
Vertical



	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 @	4869.000	35.80	-18.20	54.00	29.60	33.48	7.96	35.25	AVERAGE	100	193	VERTICAL
2	4874.960	48.47	-25.53	74.00	42.27	33.48	7.96	35.25	PEAK	100	193	VERTICAL

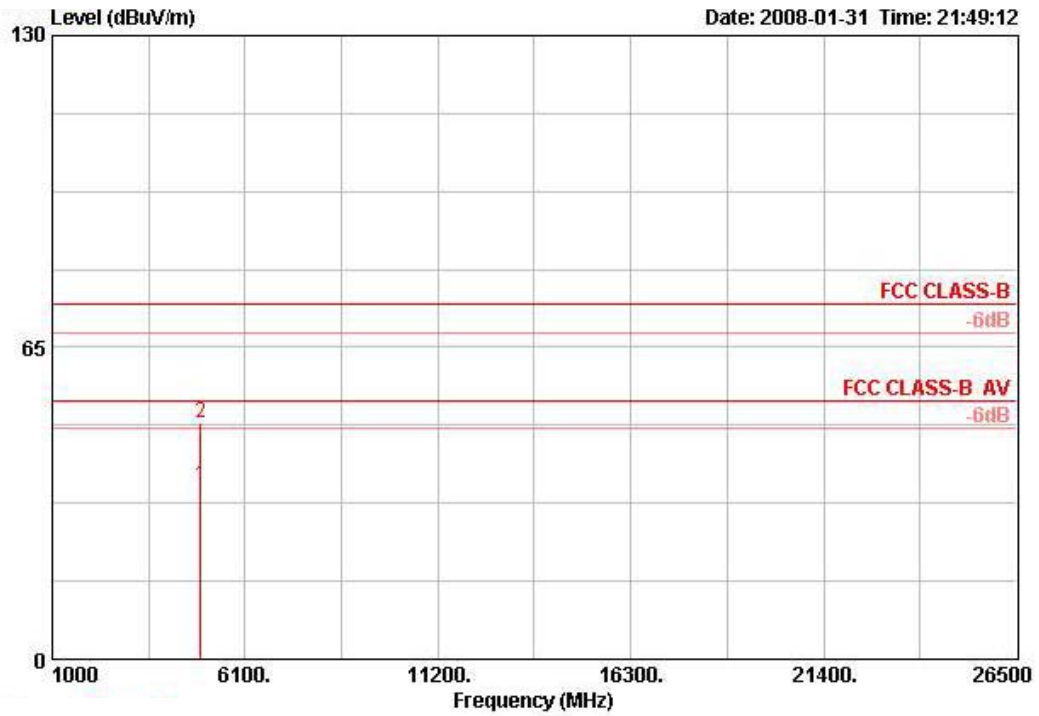
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 11 / Ant. A

Horizontal



	Freq	Level	Over Limit	Limit Line	Read 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 @	4923.880	35.85	-18.15	54.00	29.50	33.58	8.01	35.24	AVERAGE	100	50	HORIZONTAL
2	4923.880	46.76	-27.24	74.00	40.42	33.58	8.01	35.24	PEAK	100	50	HORIZONTAL

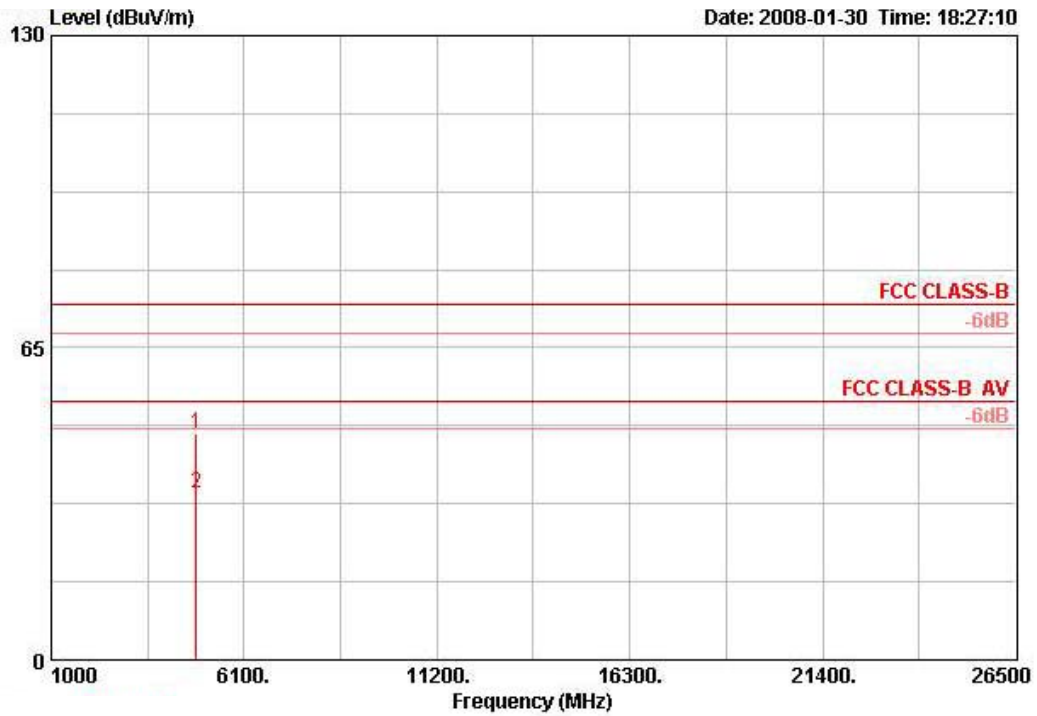
Vertical



	Freq	Level	Over Limit	Limit Line	Read 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 @	4923.880	36.06	-17.94	54.00	29.72	33.58	8.01	35.24	AVERAGE	100	200	VERTICAL
2 @	4928.540	49.19	-24.81	74.00	42.84	33.58	8.01	35.24	PEAK	100	200	VERTICAL

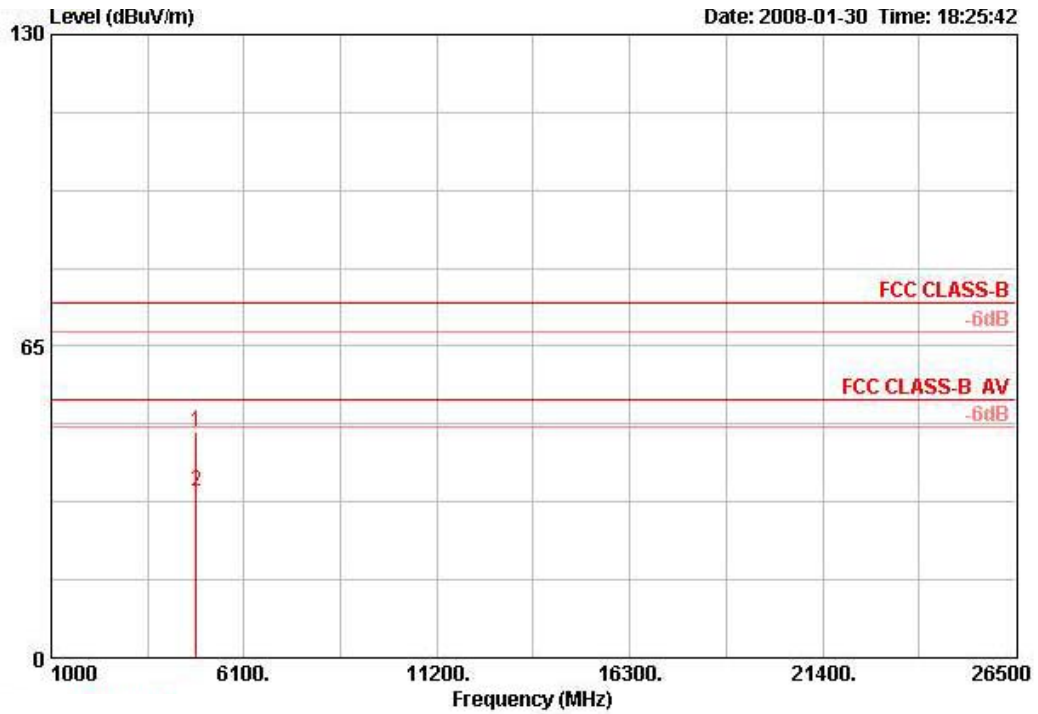
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 1 / Ant. D

Horizontal



	Freq	Level	Over Limit	Limit Line	Read 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	4824.140	47.23	-26.77	74.00	41.18	33.39	7.91	35.25	PEAK	100	21	HORIZONTAL
2 @	4826.520	34.62	-19.38	54.00	28.56	33.39	7.91	35.25	AVERAGE	100	21	HORIZONTAL

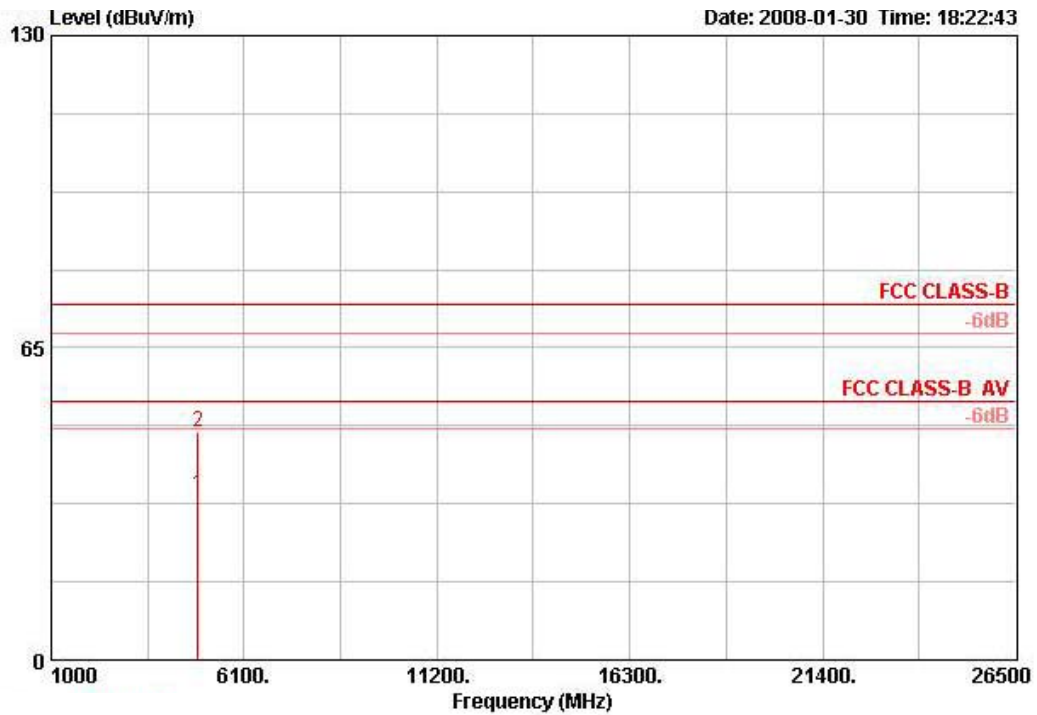
Vertical



	Freq	Level	Over Limit	Limit Line	Read 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	4824.660	46.99	-27.01	74.00	40.94	33.39	7.91	35.25	PEAK	100	348	VERTICAL
2 @	4826.480	34.64	-19.36	54.00	28.59	33.39	7.91	35.25	AVERAGE	100	348	VERTICAL

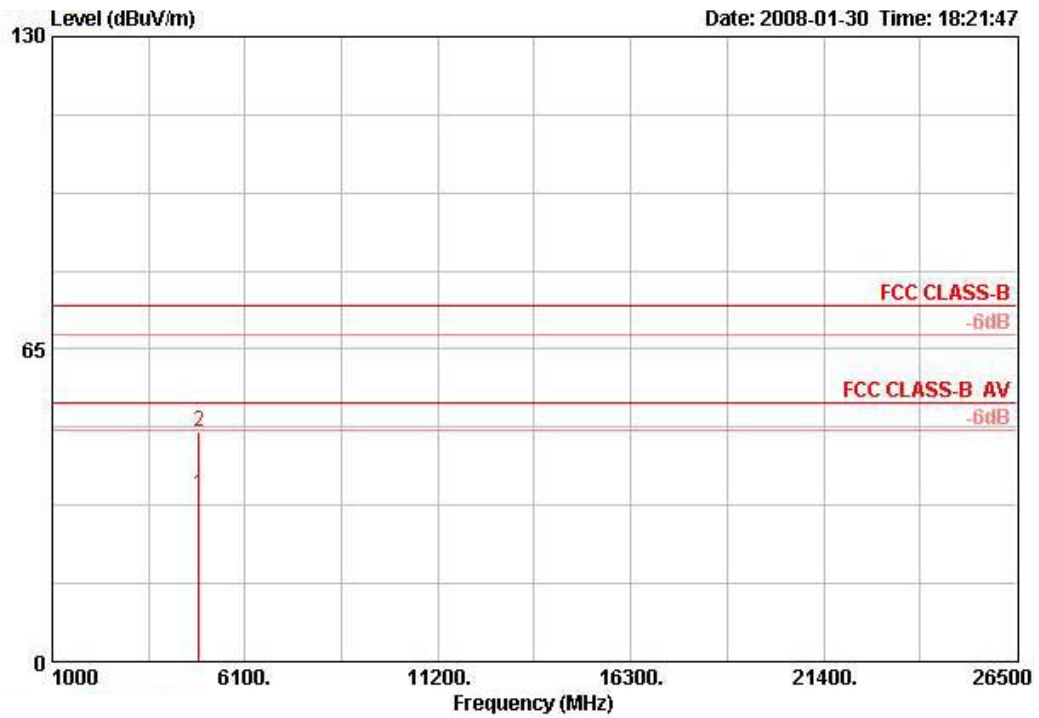
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 6 / Ant. D

Horizontal



	Freq	Level	Over Limit	Limit Line	Read 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 @	4871.920	34.51	-19.49	54.00	28.31	33.48	7.96	35.25	AVERAGE	100	147	HORIZONTAL
2	4878.000	47.34	-26.66	74.00	41.14	33.48	7.96	35.25	PEAK	100	147	HORIZONTAL

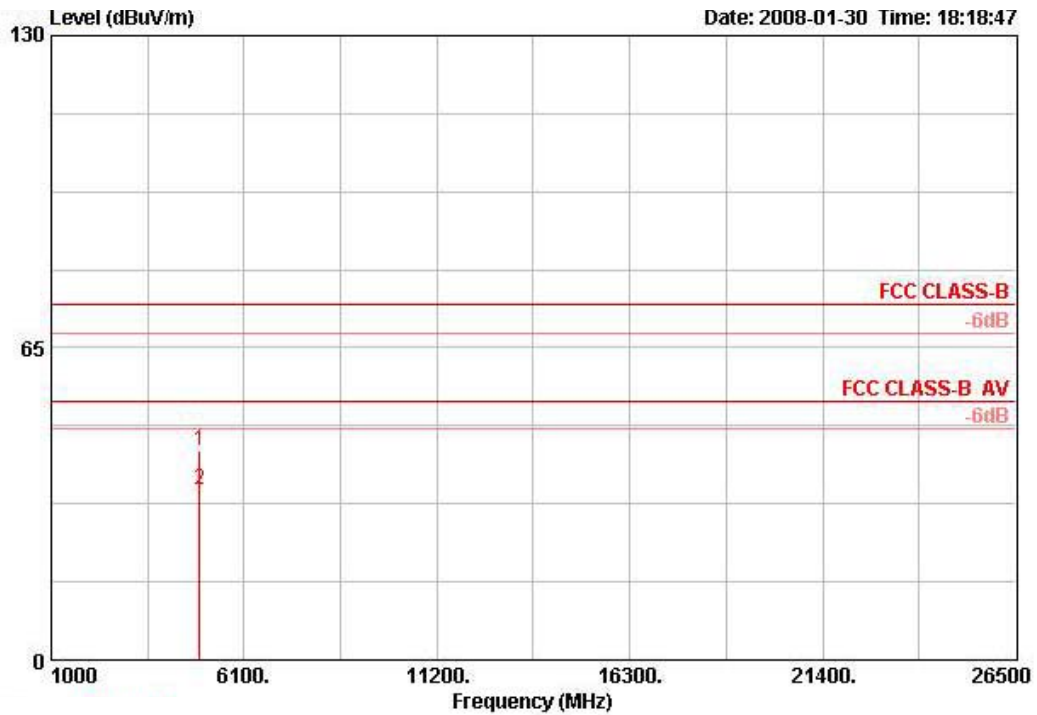
Vertical



	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 @	4872.000	34.56	-19.44	54.00	28.36	33.48	7.96	35.25	AVERAGE	100	0	VERTICAL
2	4873.360	47.93	-26.07	74.00	41.73	33.48	7.96	35.25	PEAK	100	0	VERTICAL

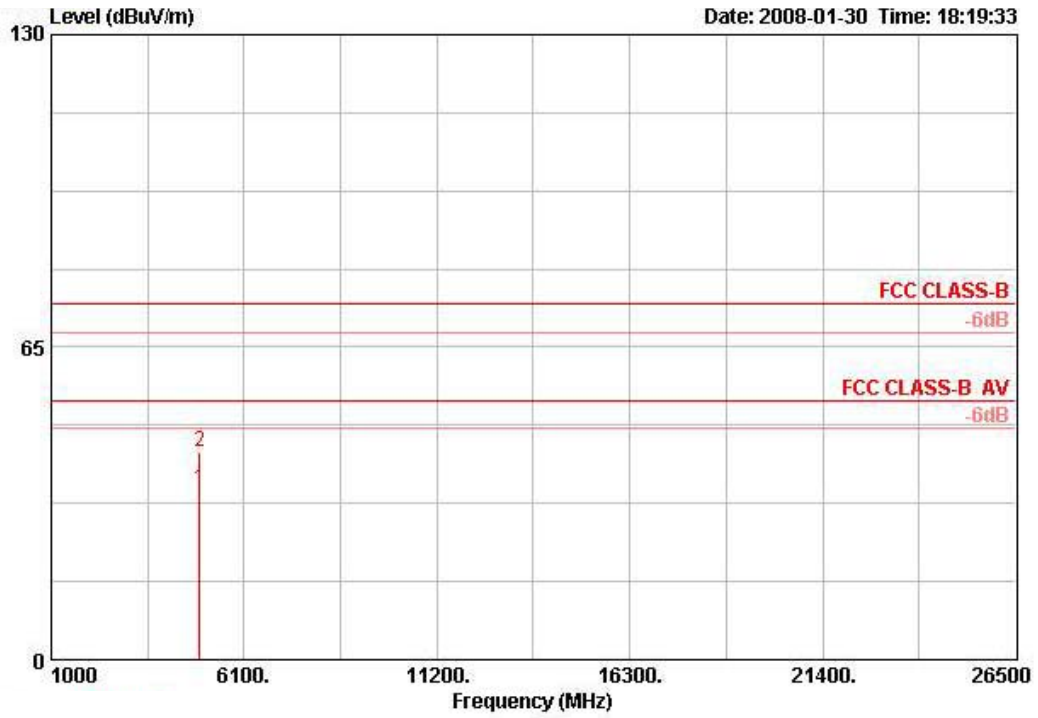
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 11 / Ant. D

Horizontal



	Freq	Level	Over Limit	Limit Line	Read 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	4920.640	43.63	-30.37	74.00	37.28	33.58	8.01	35.24	PEAK	100	306	HORIZONTAL
2 @	4926.980	35.33	-18.67	54.00	28.98	33.58	8.01	35.24	AVERAGE	100	306	HORIZONTAL

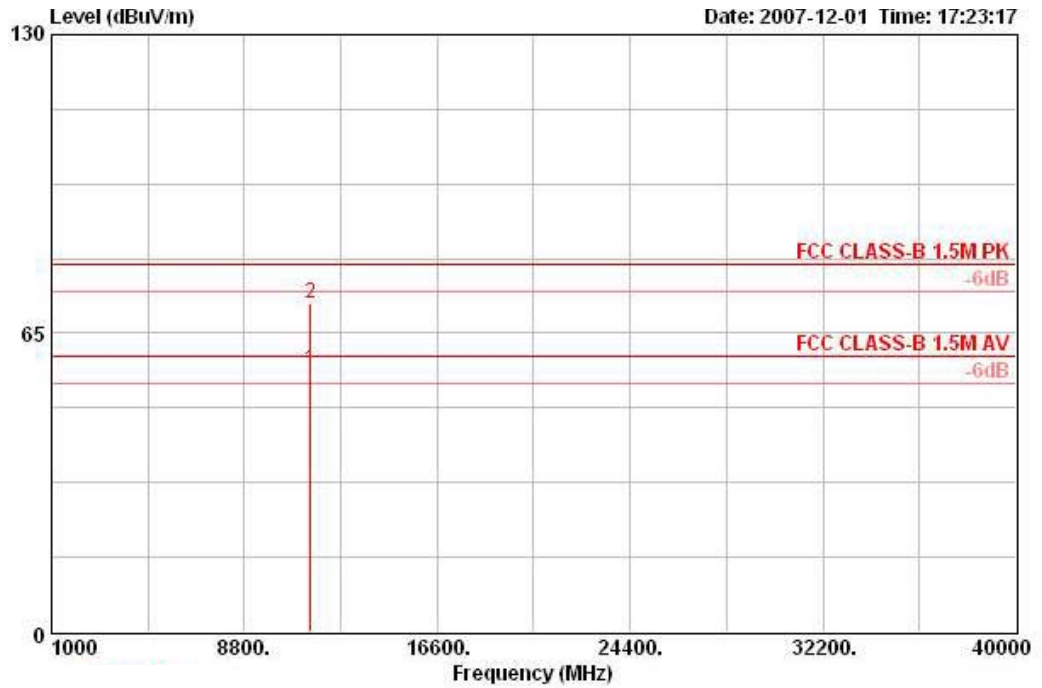
Vertical



	Freq	Level	Over Limit	Limit Line	Read 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 @	4926.680	35.32	-18.68	54.00	28.97	33.58	8.01	35.24	AVERAGE	100	169	VERTICAL
2	4928.540	43.31	-30.69	74.00	36.96	33.58	8.01	35.24	PEAK	100	169	VERTICAL

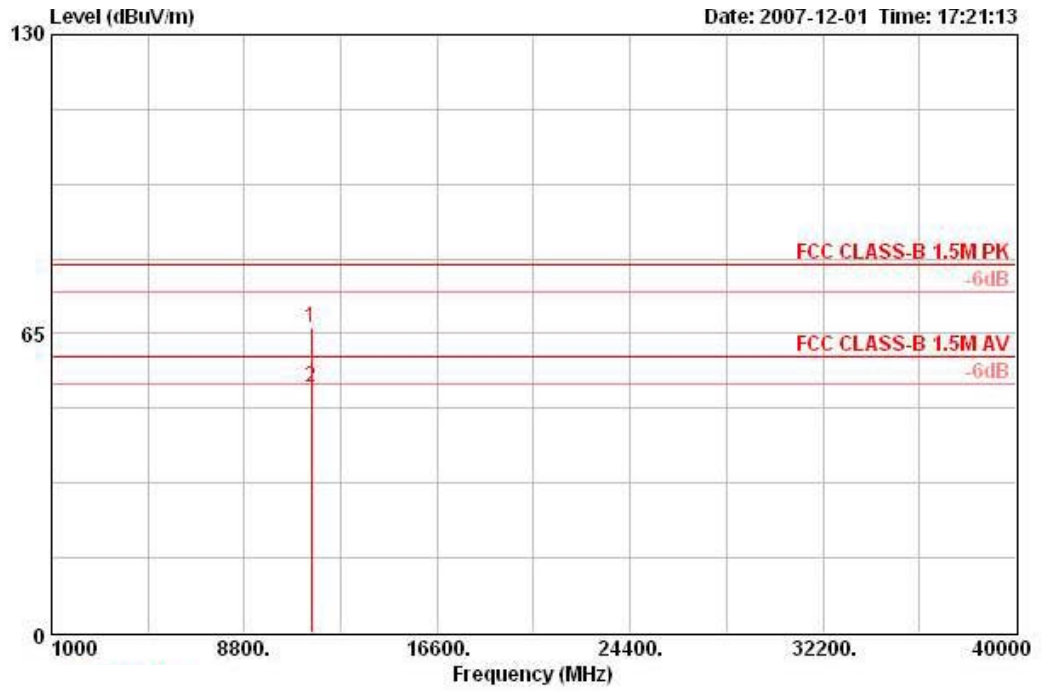
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11a CH 149 / Ant. B

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11487.320	57.07	-2.93	60.00	42.42	38.50	34.75	10.90	AVERAGE	287	111	HORIZONTAL
2	11488.580	71.47	-8.53	80.00	56.83	38.50	34.75	10.90	PEAK	287	111	HORIZONTAL

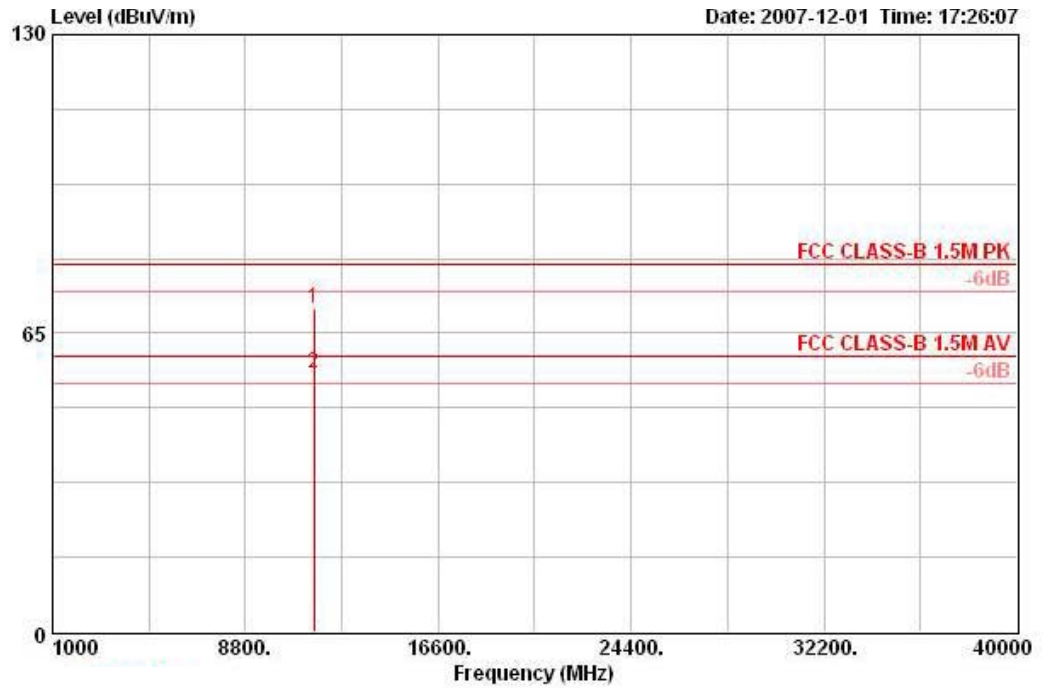
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11489.600	66.32	-13.68	80.00	51.67	38.50	34.75	10.90	PEAK	249	100	VERTICAL
2	11489.660	53.16	-6.84	60.00	38.51	38.50	34.75	10.90	AVERAGE	249	100	VERTICAL

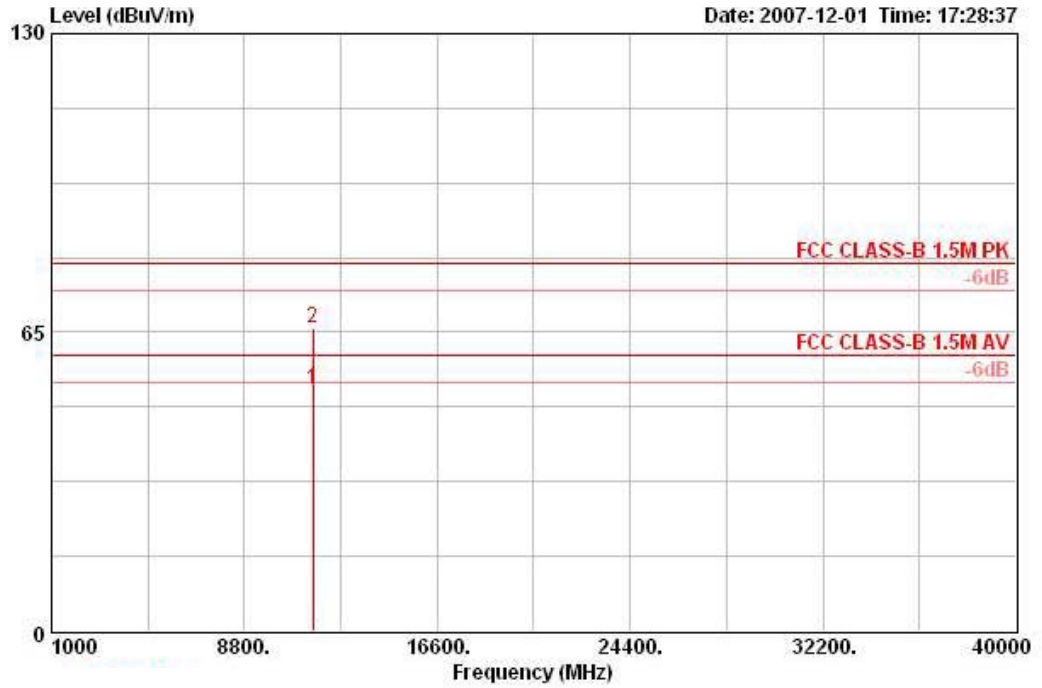
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11a CH 157 / Ant. B

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11568.340	70.34	-9.66	80.00	55.77	38.51	34.80	10.86	PEAK	285	114	HORIZONTAL
2	11568.440	56.24	-3.76	60.00	41.67	38.51	34.80	10.86	AVERAGE	285	114	HORIZONTAL

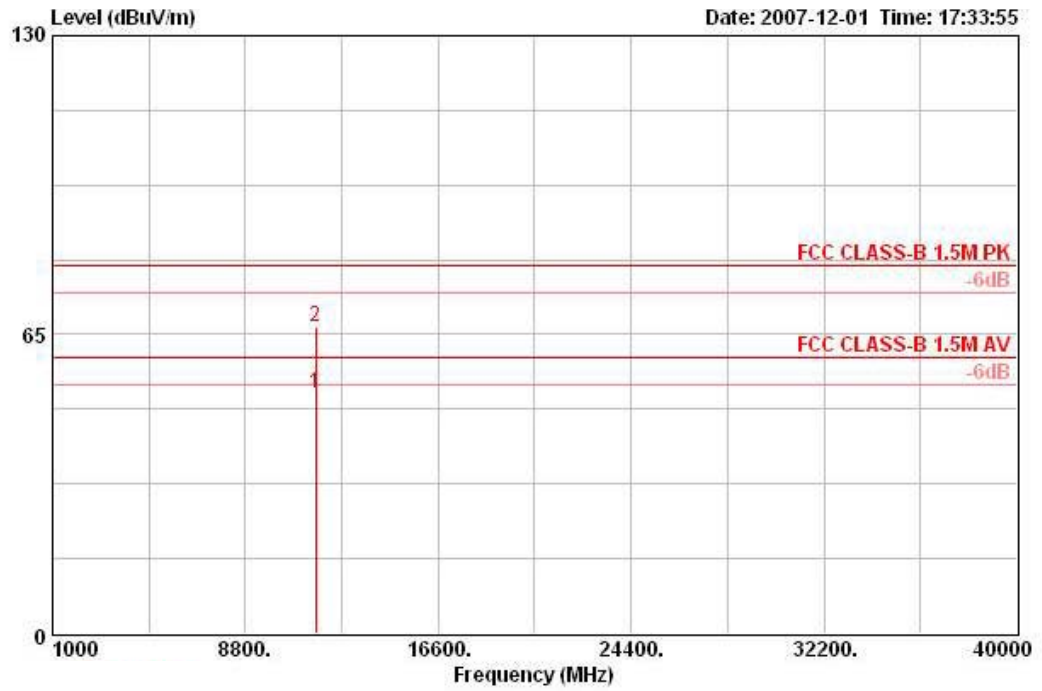
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11565.160	52.65	-7.35	60.00	38.07	38.51	34.80	10.86	AVERAGE	326	104	VERTICAL
2	11574.680	66.09	-13.91	80.00	51.58	38.51	34.82	10.83	PEAK	326	104	VERTICAL

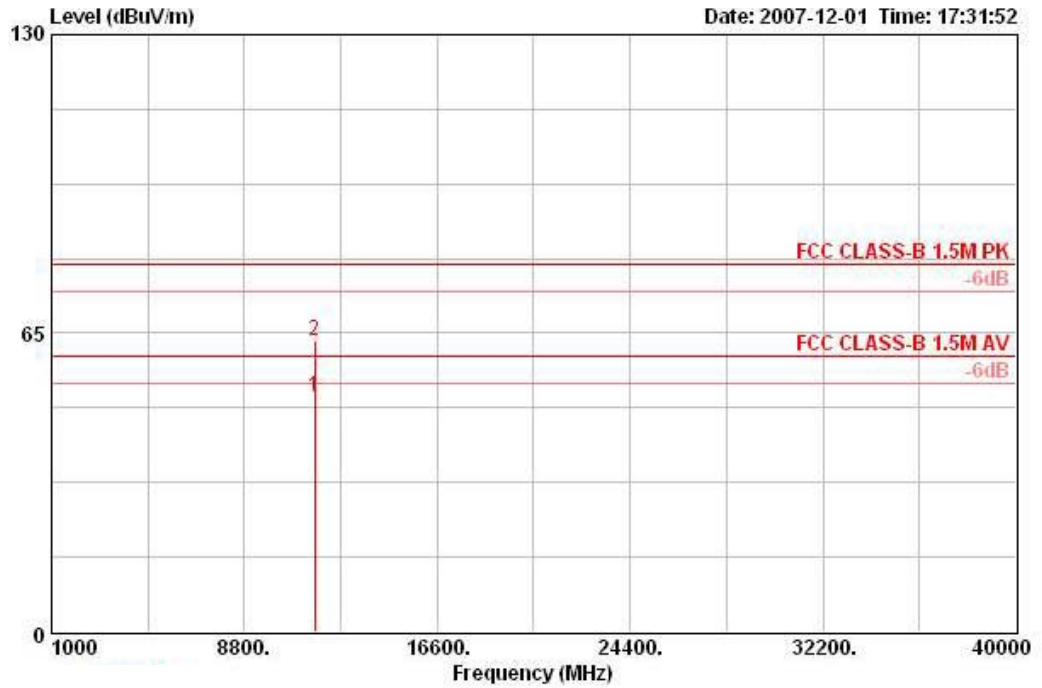
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11a CH 165 / Ant. B

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11645.020	52.40	-7.60	60.00	37.99	38.53	34.87	10.76	AVERAGE	288	108	HORIZONTAL
2	11645.840	66.61	-13.39	80.00	52.19	38.53	34.87	10.76	PEAK	288	108	HORIZONTAL

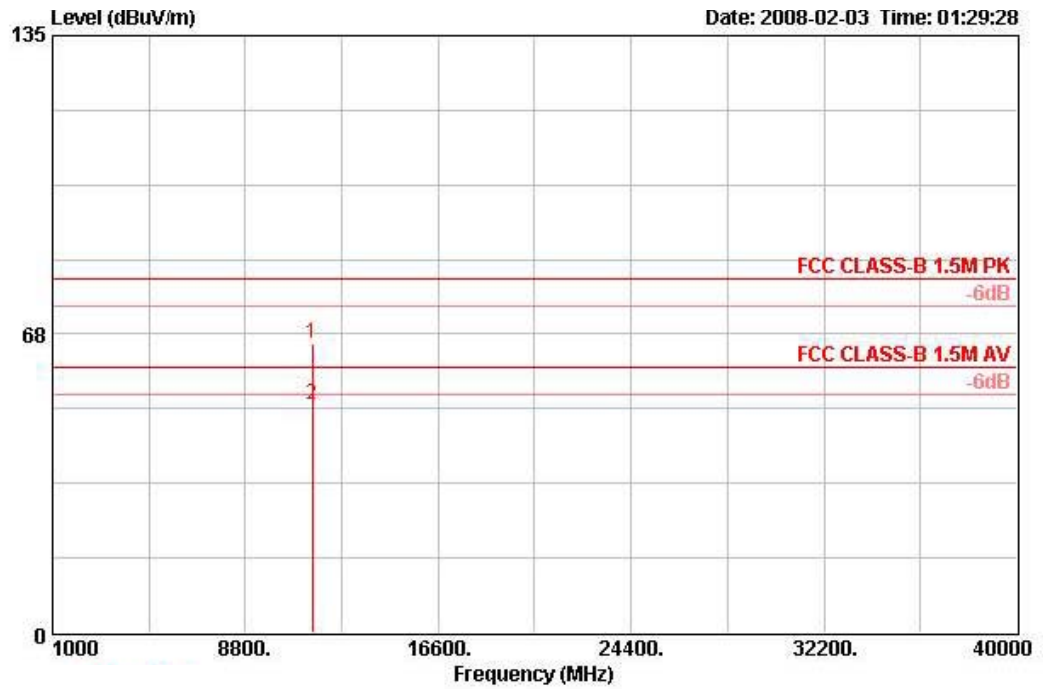
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11645.000	51.01	-8.99	60.00	36.60	38.53	34.87	10.76	AVERAGE	316	100	VERTICAL
2	11645.220	63.35	-16.65	80.00	48.94	38.53	34.87	10.76	PEAK	316	100	VERTICAL

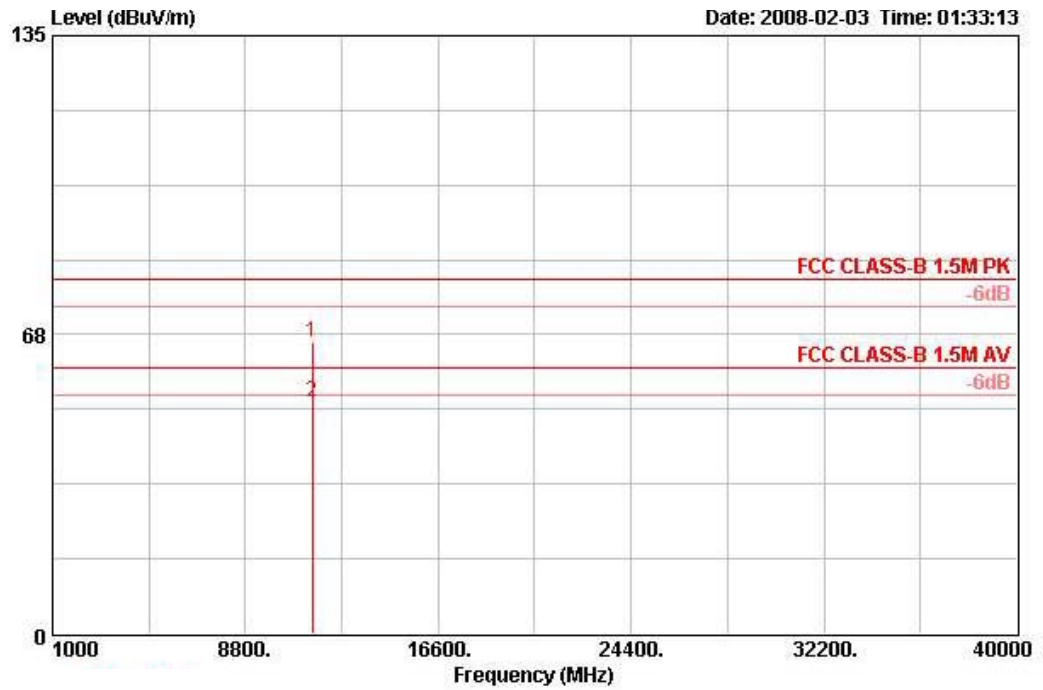
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11a CH 149 / Ant. D

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11489.480	65.30	-14.70	80.00	50.65	38.50	34.75	10.90	PERK	322	105	HORIZONTAL
2	11489.620	51.37	-8.63	60.00	36.72	38.50	34.75	10.90	AVERAGE	322	105	HORIZONTAL

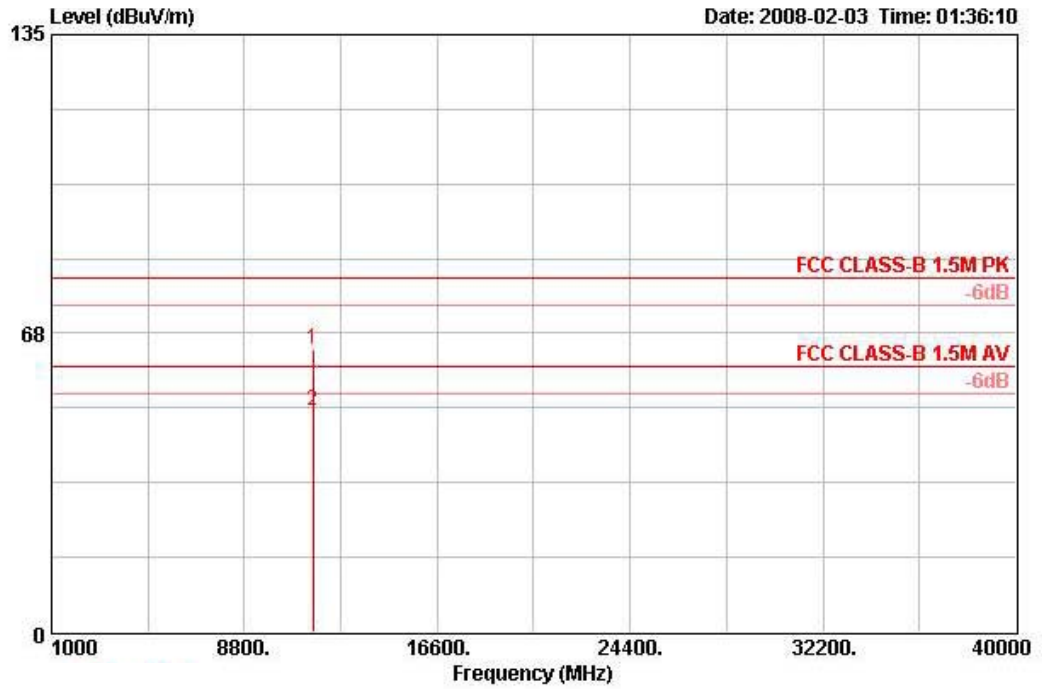
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11493.880	65.59	-14.41	80.00	50.91	38.50	34.75	10.93	PEAK	334	107	VERTICAL
2	11494.140	52.34	-7.66	60.00	37.66	38.50	34.75	10.93	AVERAGE	334	107	VERTICAL

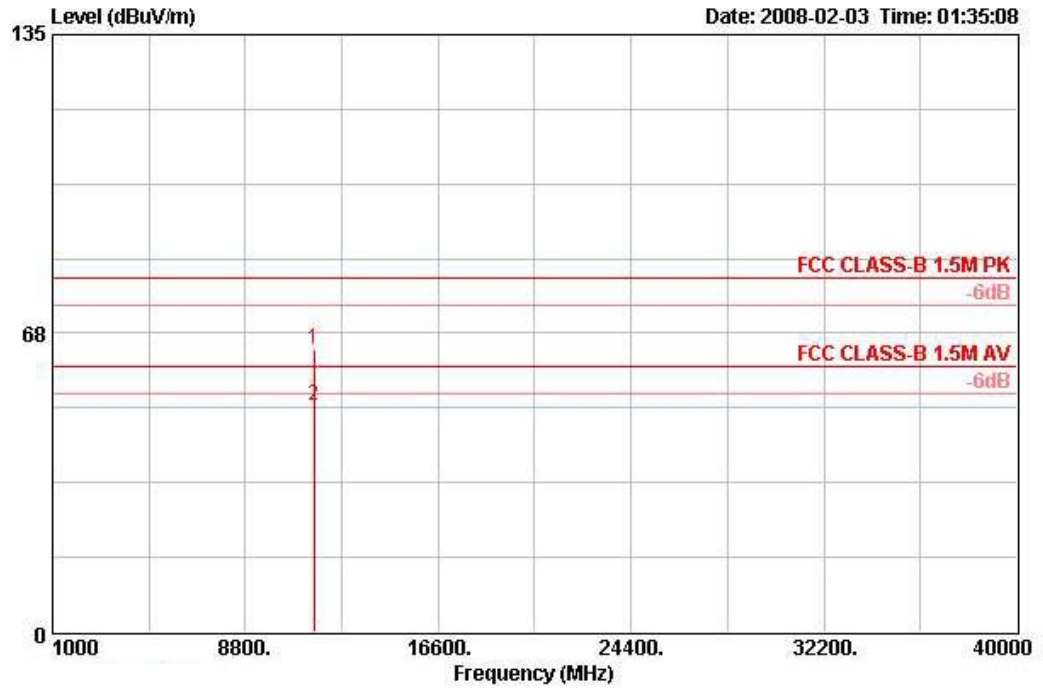
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11a CH 157 / Ant. D

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11568.820	63.80	-16.20	80.00	49.22	38.51	34.80	10.86	PEAK	323	112	HORIZONTAL
2	11569.060	50.19	-9.81	60.00	35.61	38.51	34.80	10.86	AVERAGE	323	112	HORIZONTAL

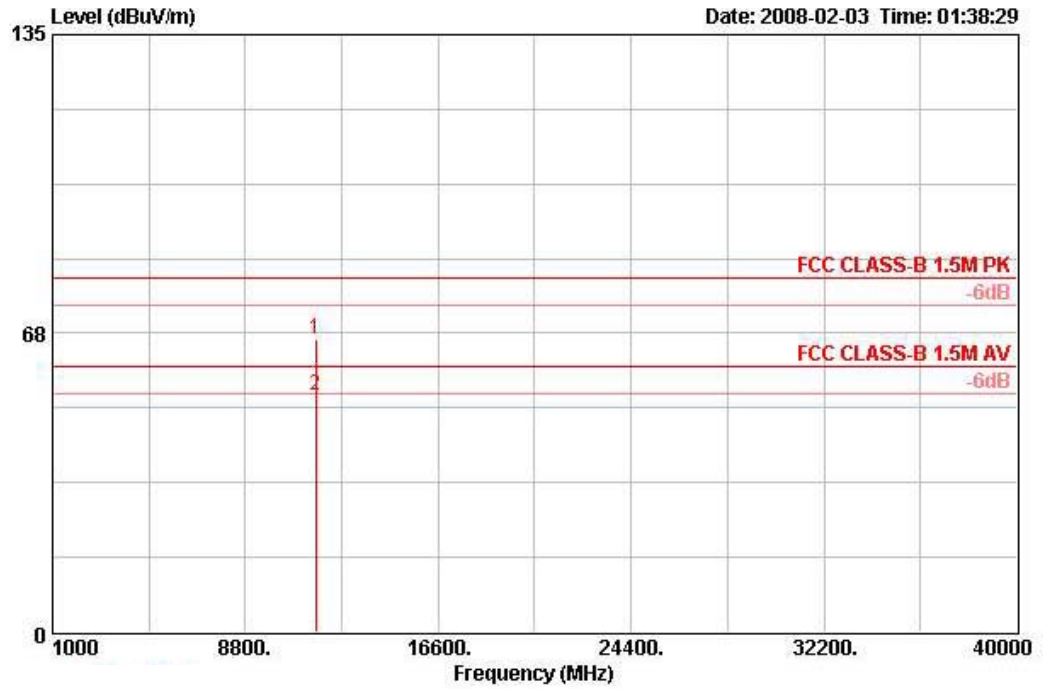
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11567.640	63.95	-16.05	80.00	49.38	38.51	34.80	10.86	PEAK	326	108	VERTICAL
2	11568.840	51.27	-8.73	60.00	36.69	38.51	34.80	10.86	AVERAGE	326	108	VERTICAL

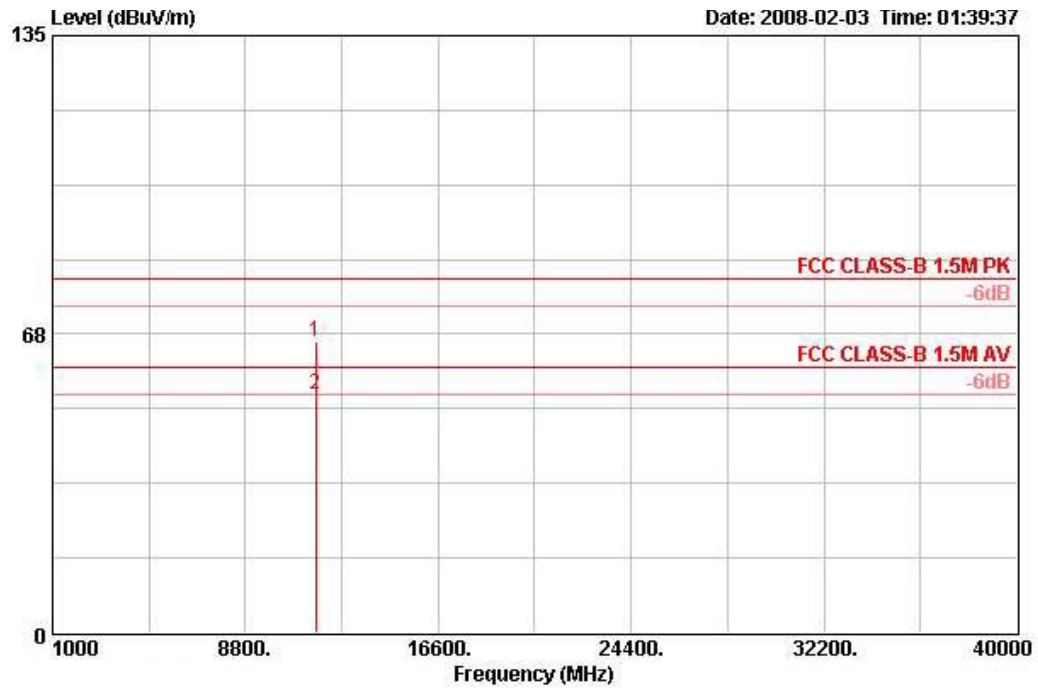
Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11a CH 165 / Ant. D

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11648.160	66.07	-13.93	80.00	51.72	38.53	34.90	10.72	PEAK	328	114	HORIZONTAL
2	11648.320	53.56	-6.44	60.00	39.21	38.53	34.90	10.72	AVERAGE	328	114	HORIZONTAL

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11645.680	65.83	-14.17	80.00	51.42	38.53	34.87	10.76	PEAK	346	109	VERTICAL
2	11652.800	53.86	-6.14	60.00	39.50	38.53	34.90	10.72	AVERAGE	346	109	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	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11b CH 1, 6, 11 / Ant. A

Channel 1

	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 @	2385.800	52.15	-1.85	54.00	18.30	28.05	5.80	0.00	AVERAGE	100	89	VERTICAL
2 @	2385.800	62.13	-11.87	74.00	28.28	28.05	5.80	0.00	PEAK	100	89	VERTICAL
3 @	2411.200	109.85			75.92	28.09	5.84	0.00	AVERAGE	100	89	VERTICAL
4 @	2413.000	114.61			80.69	28.09	5.84	0.00	PEAK	100	89	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	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2436.000	113.12			79.11	28.13	5.87	0.00	AVERAGE	100	96	VERTICAL
2 @	2436.000	118.04			84.03	28.13	5.87	0.00	PEAK	100	96	VERTICAL

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

Channel 11

	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 @	2460.600	116.90			82.77	28.22	5.91	0.00	PEAK	100	147	VERTICAL
2 @	2460.600	112.39			78.27	28.22	5.91	0.00	AVERAGE	100	147	VERTICAL
3 @	2487.300	52.99	-1.01	54.00	18.79	28.26	5.94	0.00	AVERAGE	100	147	VERTICAL
4 @	2488.100	62.21	-11.79	74.00	27.97	28.30	5.94	0.00	PEAK	100	147	VERTICAL

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

Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11b CH 1, 6, 11 / Ant. D

Channel 1

	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 @	2386.400	50.06	-23.94	74.00	16.21	28.05	5.80	0.00	PEAK	100	319	HORIZONTAL
2 @	2386.400	60.80	-13.20	74.00	26.94	28.05	5.80	0.00	PEAK	100	319	HORIZONTAL
3 @	2413.000	110.66			76.73	28.09	5.84	0.00	PEAK	100	319	HORIZONTAL
4 @	2413.000	105.64			71.71	28.09	5.84	0.00	PEAK	100	319	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	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2434.400	111.36			77.35	28.13	5.87	0.00	AVERAGE	100	158	VERTICAL
2 @	2435.400	114.49			80.49	28.13	5.87	0.00	PEAK	100	158	VERTICAL

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

Channel 11

	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 @	2462.600	110.09			75.97	28.22	5.91	0.00	AVERAGE	100	171	VERTICAL
2 @	2463.200	115.00			80.88	28.22	5.91	0.00	PEAK	100	171	VERTICAL
3 @	2487.900	51.27	-2.73	54.00	17.03	28.30	5.94	0.00	AVERAGE	100	171	VERTICAL
4 @	2488.100	62.24	-11.76	74.00	28.00	28.30	5.94	0.00	PEAK	100	171	VERTICAL

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

Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 1, 6, 11 / Ant. A

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 @	2390.000	53.58	-0.42	54.00	19.69	28.05	5.84	0.00	AVERAGE	100	3	VERTICAL
2 @	2390.000	72.70	-1.30	74.00	38.81	28.05	5.84	0.00	PEAK	100	3	VERTICAL
3 @	2407.600	113.63			79.70	28.09	5.84	0.00	PEAK	100	3	VERTICAL
4 @	2409.200	101.48			67.55	28.09	5.84	0.00	AVERAGE	100	3	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 @	2433.800	93.43			59.43	28.13	5.87	0.00	AVERAGE	100	20	VERTICAL
2 @	2434.000	104.20			70.19	28.13	5.87	0.00	PEAK	100	20	VERTICAL

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

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 @	2461.200	102.64			68.51	28.22	5.91	0.00	AVERAGE	100	9	VERTICAL
2 @	2463.200	113.09			78.96	28.22	5.91	0.00	PEAK	100	9	VERTICAL
3 @	2483.500	52.42	-1.58	54.00	18.22	28.26	5.94	0.00	AVERAGE	100	9	VERTICAL
4 @	2483.700	71.57	-2.43	74.00	37.37	28.26	5.94	0.00	PEAK	100	9	VERTICAL

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

Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11g CH 1, 6, 11 / Ant. D

Channel 1

	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 @	2390.000	52.92	-1.08	54.00	19.03	28.05	5.84	0.00	AVERAGE	100	188	VERTICAL
2 @	2390.000	72.03	-1.97	74.00	38.14	28.05	5.84	0.00	PEAK	100	188	VERTICAL
3 @	2408.400	113.99			80.06	28.09	5.84	0.00	PEAK	100	188	VERTICAL
4 @	2408.600	101.35			67.42	28.09	5.84	0.00	AVERAGE	100	188	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	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2431.200	102.69			68.68	28.13	5.87	0.00	AVERAGE	100	159	VERTICAL
2 @	2436.200	113.89			79.89	28.13	5.87	0.00	PEAK	100	159	VERTICAL

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

Channel 11

	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 @	2455.400	112.12			77.99	28.22	5.91	0.00	PEAK	100	212	VERTICAL
2 @	2456.800	99.87			65.75	28.22	5.91	0.00	AVERAGE	100	212	VERTICAL
3 @	2483.500	53.76	-0.24	54.00	19.55	28.26	5.94	0.00	AVERAGE	100	212	VERTICAL
4 @	2486.500	72.20	-1.80	74.00	38.00	28.26	5.94	0.00	PEAK	100	212	VERTICAL

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

Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11a CH 149, 157, 165 / Ant. B

Channel 149

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 ☺	5747.600	124.01			85.28	34.32	0.00	4.41	PEAK	289	120	VERTICAL
2 ☺	5748.600	110.95			72.22	34.32	0.00	4.41	AVERAGE	289	120	VERTICAL

Item 1, 2 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 ☺	5783.000	111.30			72.45	34.43	0.00	4.42	AVERAGE	135	100	VERTICAL
2 ☺	5783.800	121.15			82.30	34.43	0.00	4.42	PEAK	135	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 ☺	5823.400	124.83			85.82	34.58	0.00	4.42	PEAK	140	117	VERTICAL
2 ☺	5823.600	112.05			73.04	34.58	0.00	4.42	AVERAGE	140	117	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	26°C	Humidity	56%
Test Engineer	Roy Huang	Configurations	802.11a CH 149, 157, 165 / Ant. D

Channel 149

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 ☺	5749.800	128.64			89.91	34.32	0.00	4.41	PEAK	179	100	VERTICAL
2 ☺	5750.400	116.57			77.84	34.32	0.00	4.41	AVERAGE	179	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 ☺	5778.800	128.29			89.45	34.43	0.00	4.41	PEAK	185	100	VERTICAL
2 ☺	5782.200	116.60			77.75	34.43	0.00	4.42	AVERAGE	185	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 ☺	5825.600	133.09			94.09	34.58	0.00	4.42	PEAK	183	100	VERTICAL
2 ☺	5827.800	120.96			81.95	34.58	0.00	4.42	AVERAGE	183	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

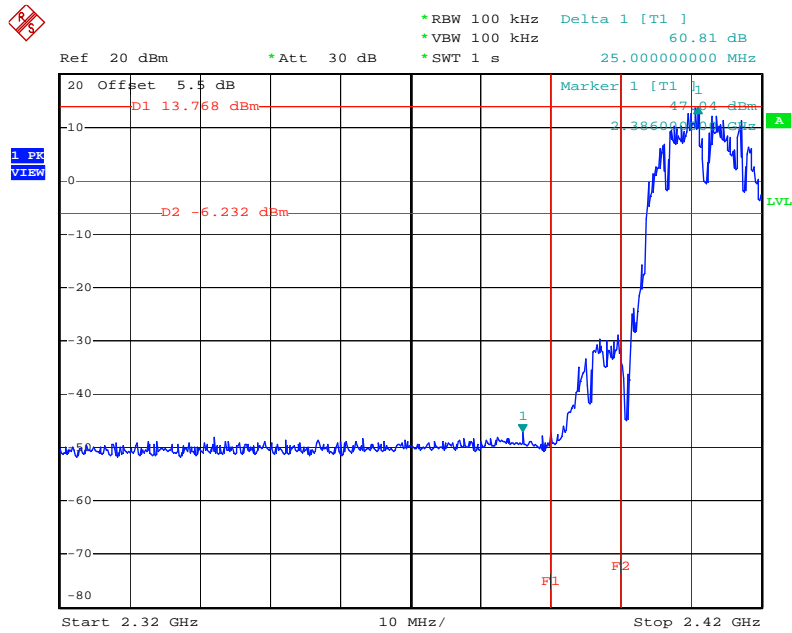
Note:

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

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

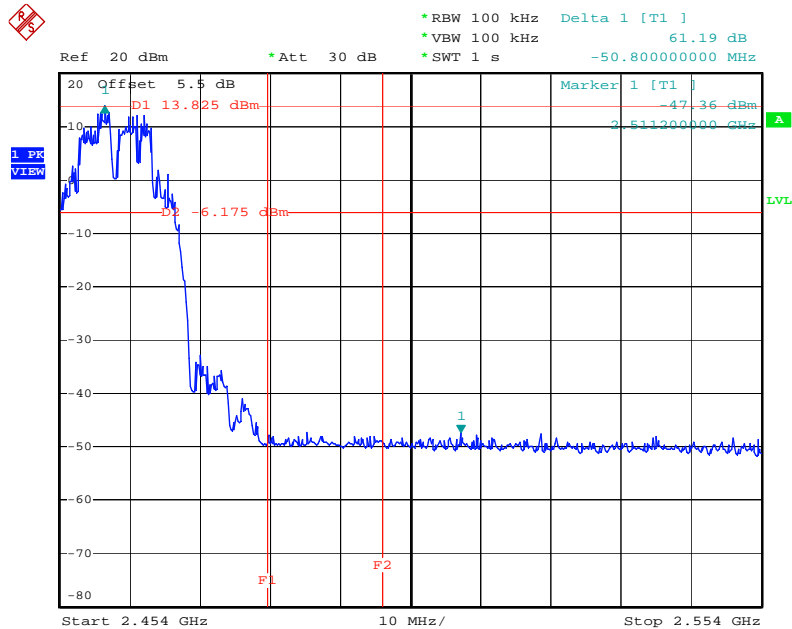
For Emission not in Restricted Band

Low Band Edge Plot on Configuration IEEE 802.11b Ant. A-1 + Ant. A-2 + Ant. A-3 / 2412 MHz



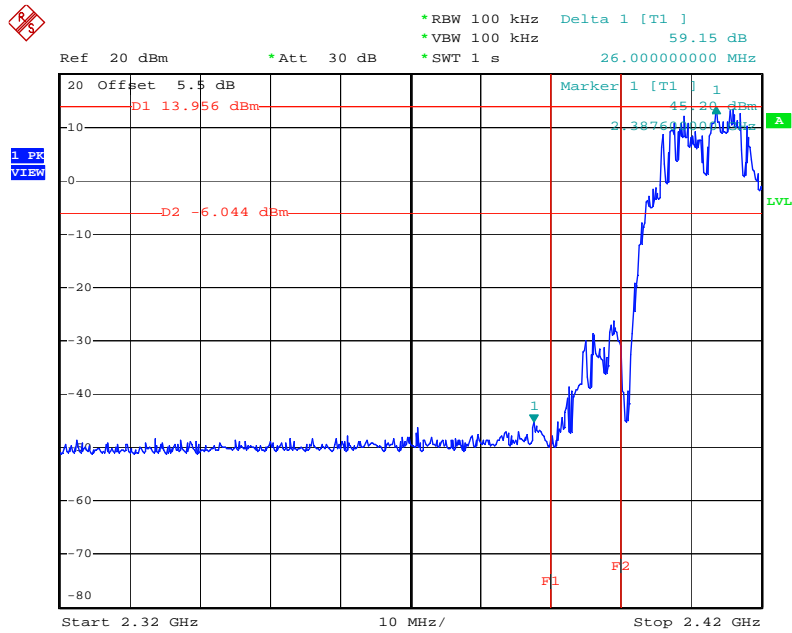
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High Band Edge Plot on Configuration IEEE 802.11b Ant. A-1 + Ant. A-2 + Ant. A-3 / 2462 MHz



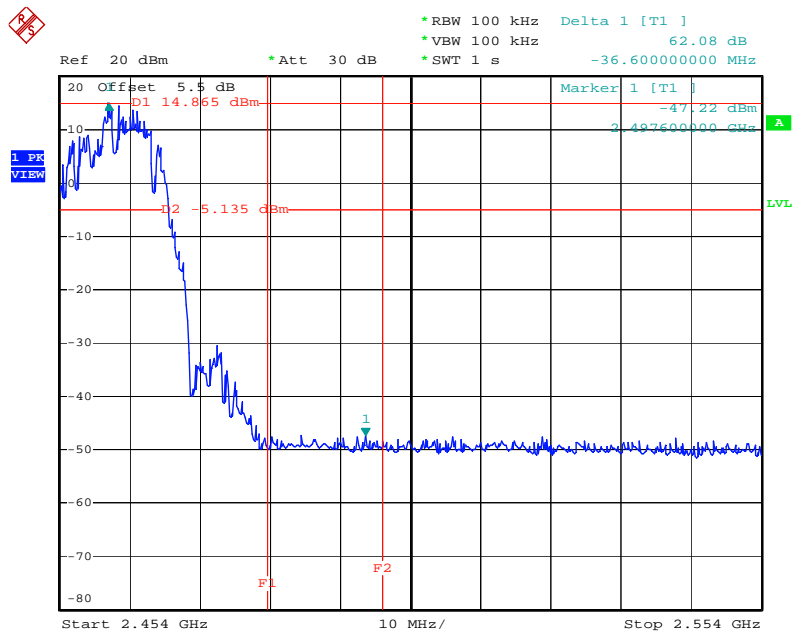
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Low Band Edge Plot on Configuration IEEE 802.11b Ant. D-1 + Ant. D-2 + Ant. D-3 / 2412 MHz



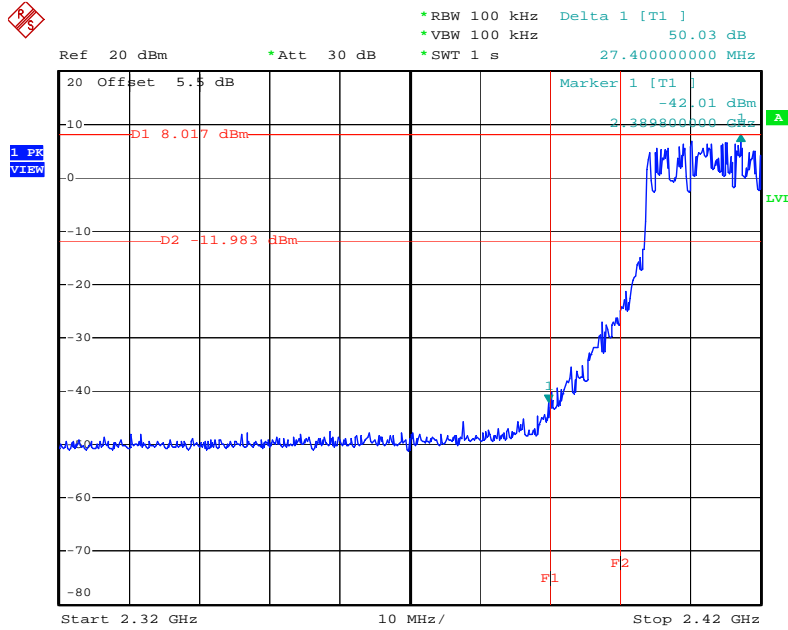
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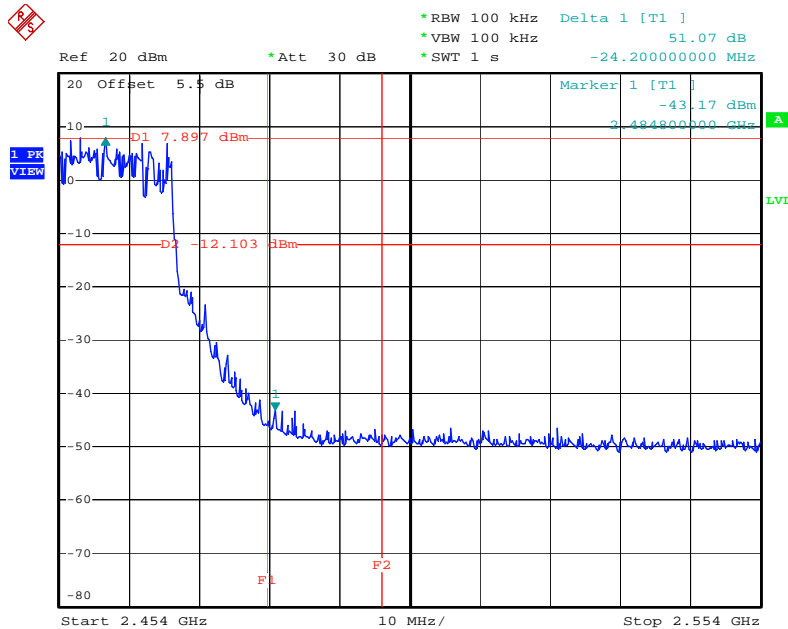
Date: 14.FEB.2008 07:26:14

Low Band Edge Plot on Configuration IEEE 802.11g Ant. A-1 + Ant. A-2 + Ant. A-3 / 2412 MHz



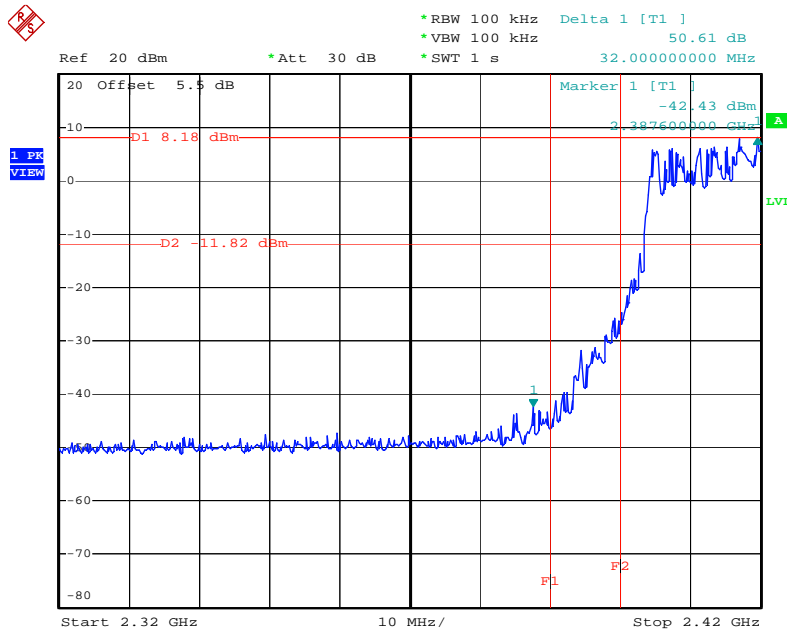
Date: 14.FEB.2008 06:42:28

High Band Edge Plot on Configuration IEEE 802.11g Ant. A-1 + Ant. A-2 + Ant. A-3 / 2462 MHz



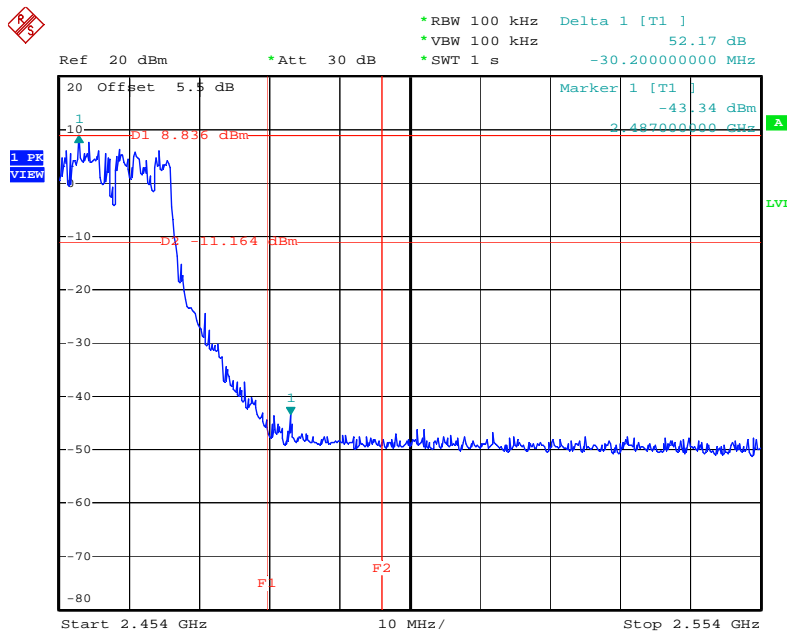
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Low Band Edge Plot on Configuration IEEE 802.11g Ant. D-1 + Ant. D-2 + Ant. D-3 / 2412 MHz



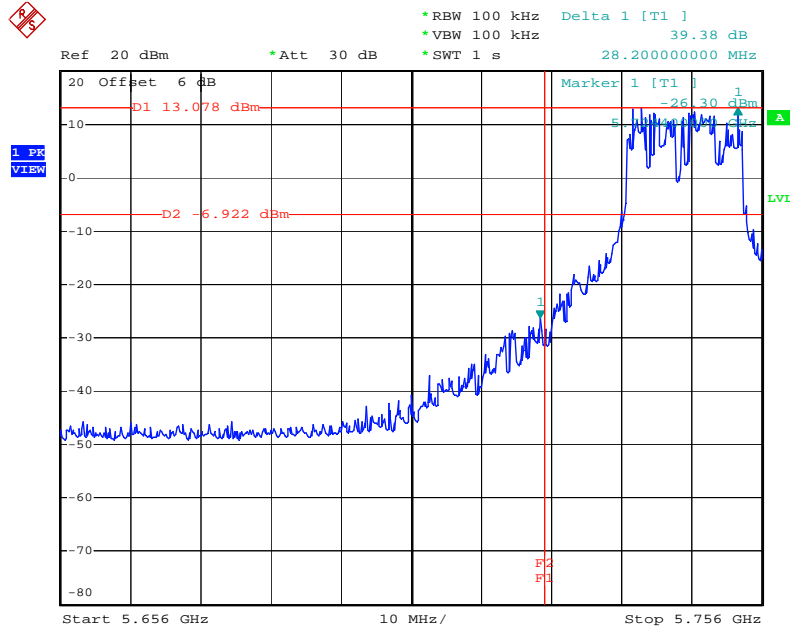
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High Band Edge Plot on Configuration IEEE 802.11g Ant. D-1 + Ant. D-2 + Ant. D-3 / 2462 MHz



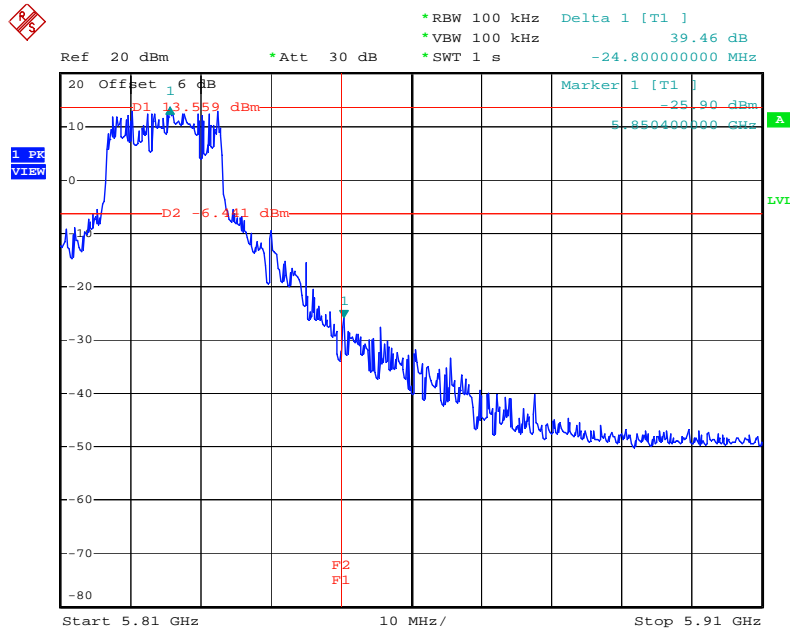
Date: 14.FEB.2008 07:27:17

Low Band Edge Plot on Configuration IEEE 802.11a Ant. B-1 + Ant. B-2 + Ant. B-3 / 5745 MHz



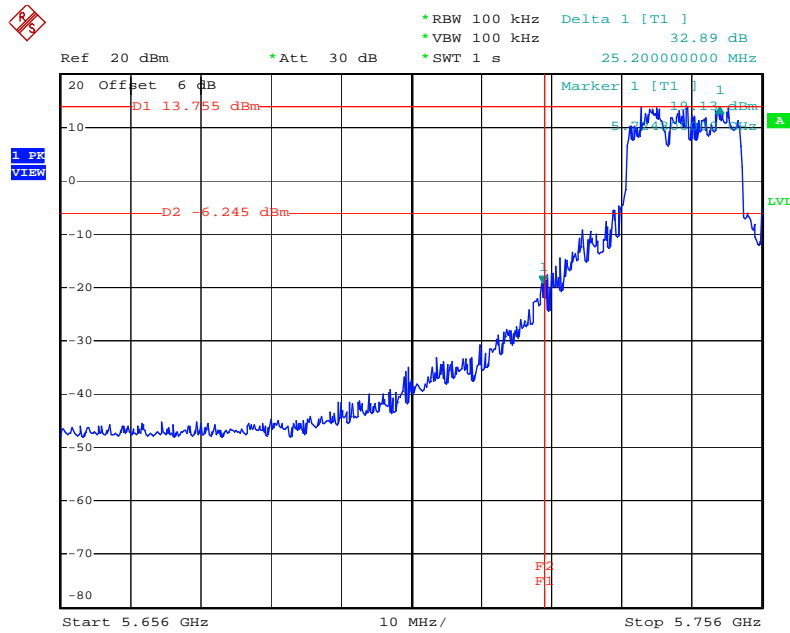
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High Band Edge Plot on Configuration IEEE 802.11a Ant. B-1 + Ant. B-2 + Ant. B-3 / 5825 MHz



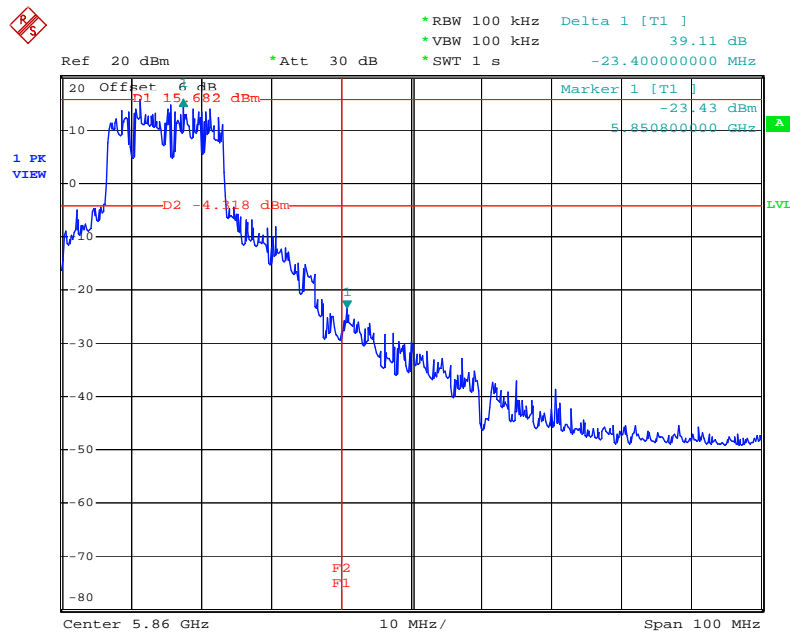
Date: 15.FEB.2008 08:49:10

Low Band Edge Plot on Configuration IEEE 802.11a Ant. D-1 + Ant. D-2 + Ant. D-3 / 5745 MHz



Date: 15.FEB.2008 11:17:18

High Band Edge Plot on Configuration IEEE 802.11a Ant. D-1 + Ant. D-2 + Ant. D-3 / 5825 MHz



Date: 28.FEB.2008 17:52:09

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, 2007	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz – 30MHz	Mar. 27, 2007	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, 2007	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	Jun. 07, 2007	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	100305	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. 21, 2007	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 04, 2007	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	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 27, 2007	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 04, 2007*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 03, 2007	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Jan. 14, 2008	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Jan. 04, 2008	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Jan. 04, 2008	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. 07, 2007	Conducted (TH01-HY)

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

*Calibration Interval of instruments listed above is two year.

NCR means Non-Calibration required.

6. TEST LOCATION

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 886-2-2696-2468 FAX : 886-2-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 886-2-2601-1640 FAX : 886-2-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 886-2-2631-4739 FAX : 886-2-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 886-2-2794-8886 FAX : 886-2-2794-9777
JHUBEI	ADD : No.8, Lane 728, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

7. TAF CERTIFICATE OF ACCREDITATION



Certificate No. : L1190-070110

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

PI, total 9 pages

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