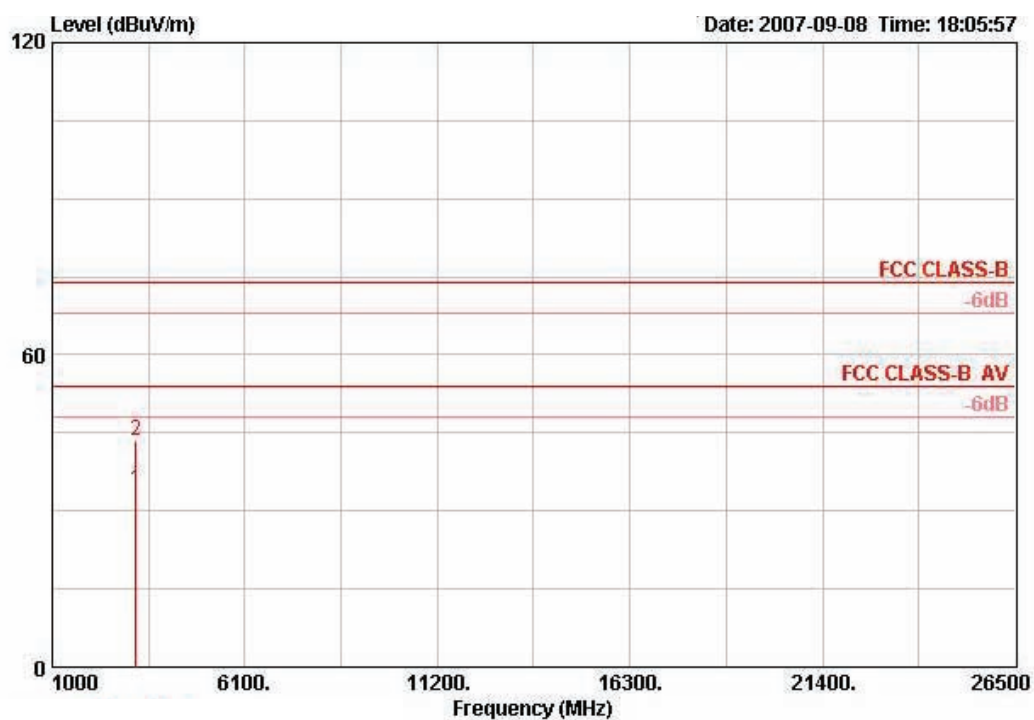


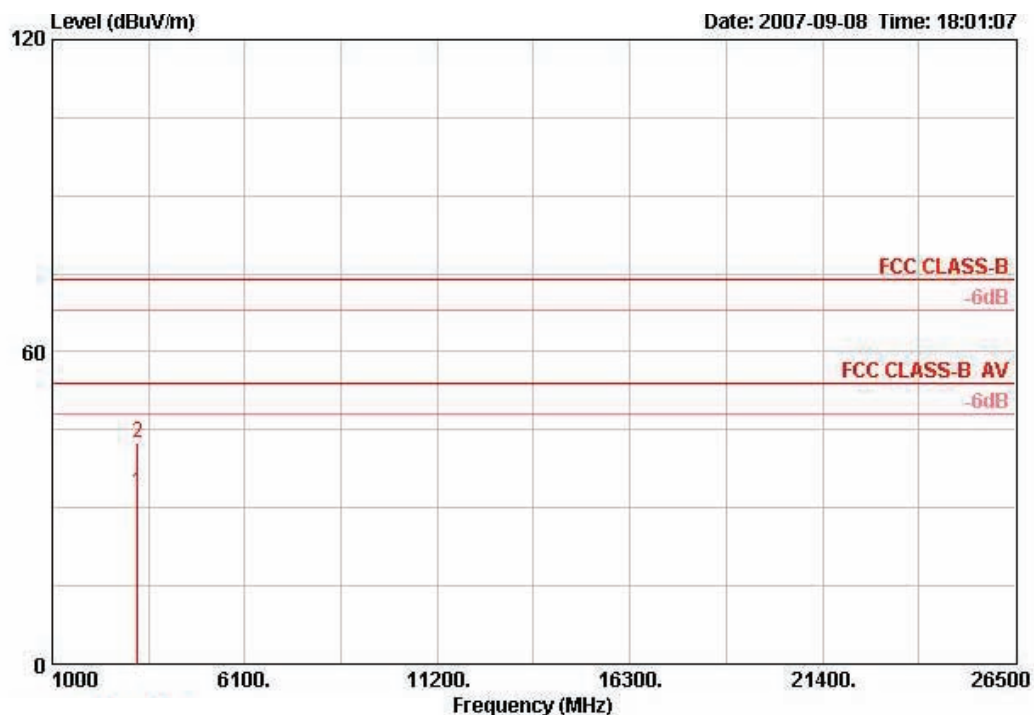
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	
1	3216.020	33.93	-20.07	54.00	35.42	30.00	3.63	35.12	AVERAGE	100	VERTICAL
2	3216.060	43.51	-30.49	74.00	45.00	30.00	3.63	35.12	PEAK	100	VERTICAL

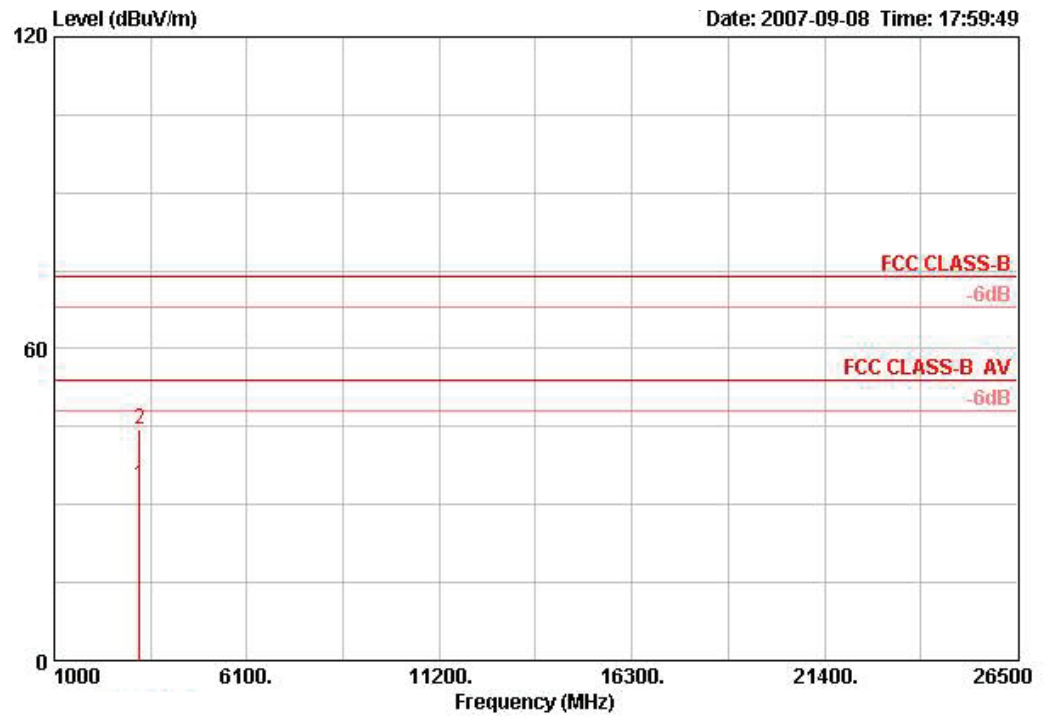
Temperature	24°C	Humidity	61%
Test Engineer	Aric Lee	Configurations	802.11g CH 6 Ant. A

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	
1	3249.240	33.09	-20.91	54.00	34.57	30.00	3.64	35.12	AVERAGE	100	HORIZONTAL
2	3249.560	42.35	-31.65	74.00	43.83	30.00	3.64	35.12	PEAK	100	HORIZONTAL

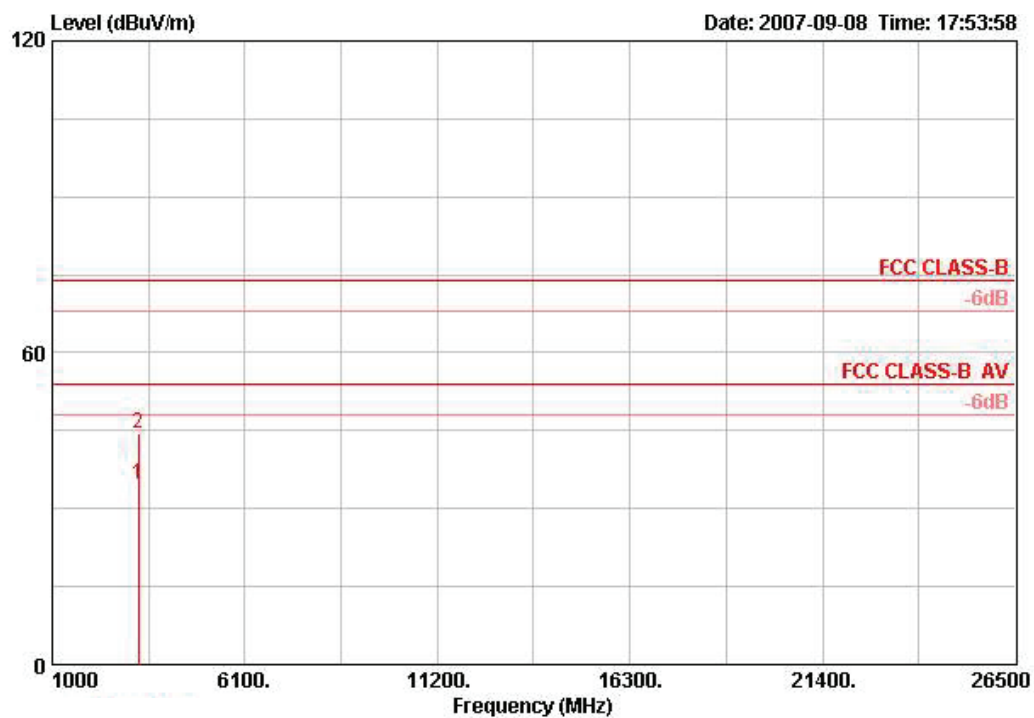
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	
1	3249.280	33.58	-20.42	54.00	35.06	30.00	3.64	35.12	AVERAGE	100	VERTICAL
2	3249.360	44.35	-29.65	74.00	45.82	30.00	3.64	35.12	PEAK	100	VERTICAL

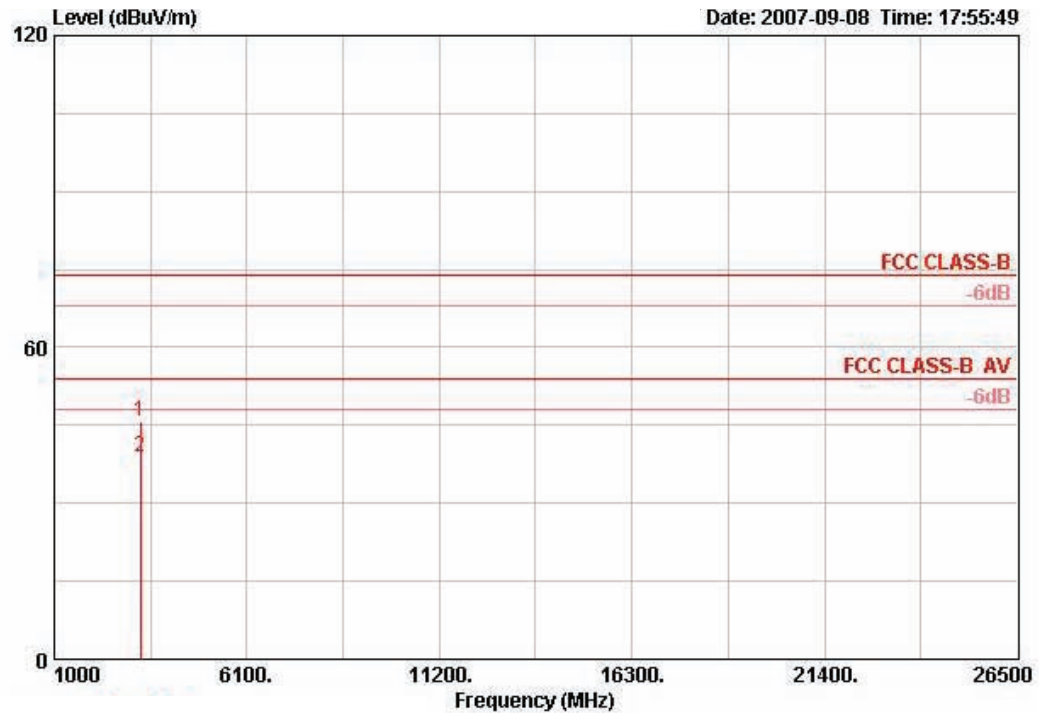
Temperature	24°C	Humidity	61%
Test Engineer	Aric Lee	Configurations	802.11g CH 11 Ant. A

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	
1	3282.640	34.69	-19.31	54.00	36.16	30.00	3.66	35.12	AVERAGE	100	HORIZONTAL
2	3282.840	44.35	-29.65	74.00	45.82	30.00	3.66	35.12	PEAK	100	HORIZONTAL

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	
1	3282.600	45.91	-28.09	74.00	47.37	30.00	3.66	35.12	PEAK	100	VERTICAL
2 @	3282.640	38.92	-15.08	54.00	40.39	30.00	3.66	35.12	AVERAGE	100	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

- The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
- 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.

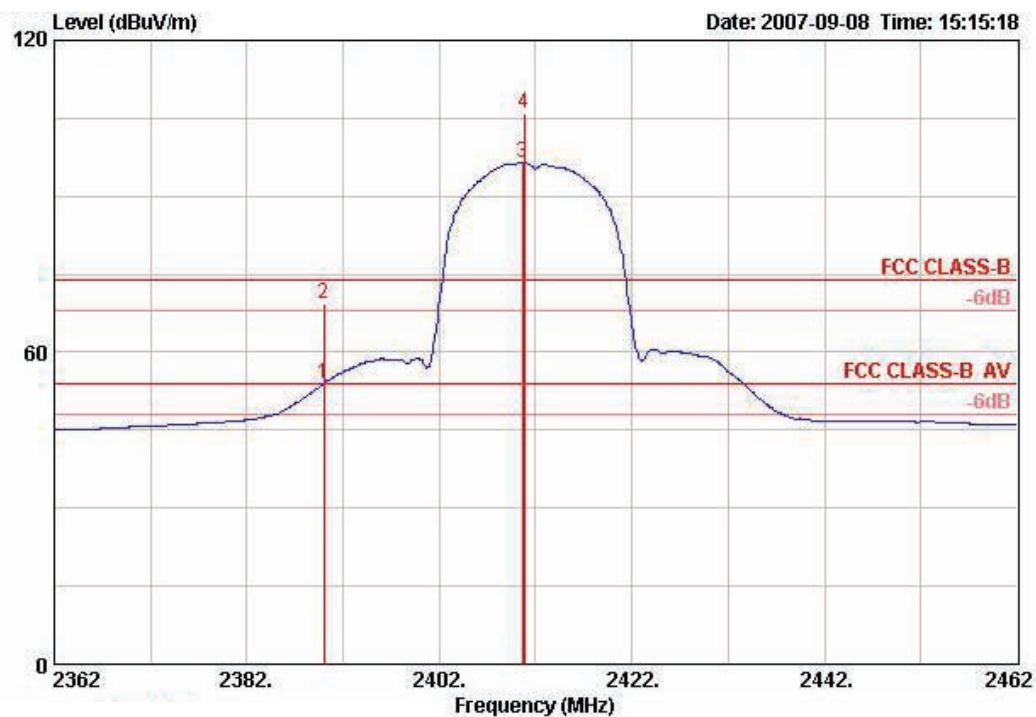
4.6.6. EUT Operation during Test

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	61%
Test Engineer	Aric Lee	Configurations	Draft n MCS8 20MHz Ch 1, 11 Ant. A + Ant. B

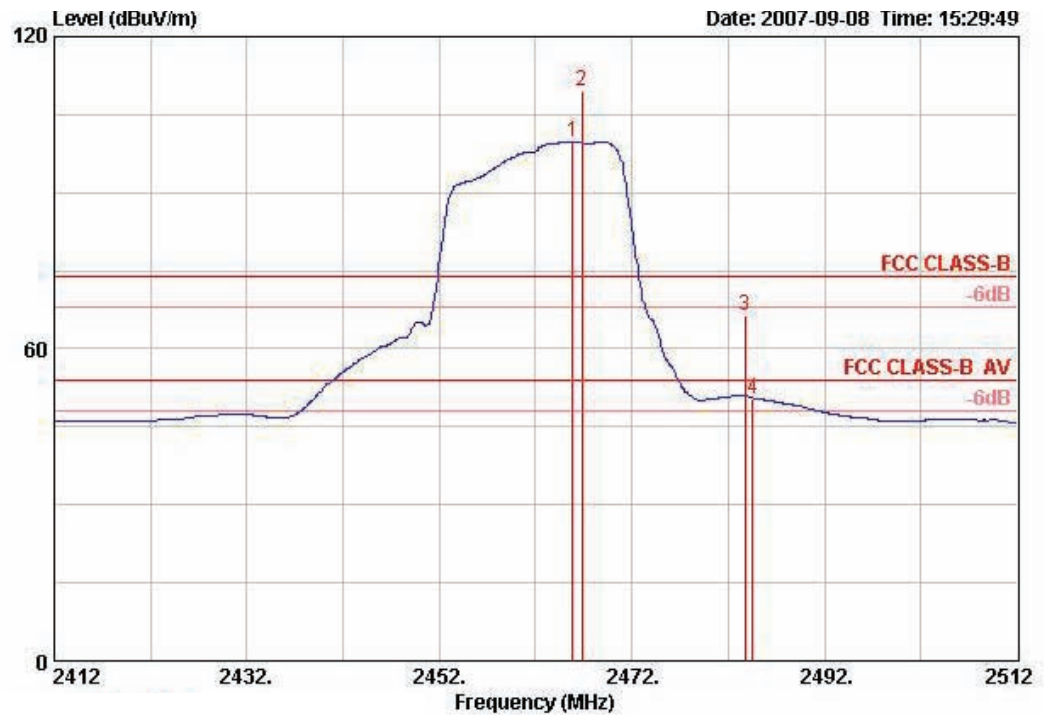
Channel 1



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	
1 @	2390.000	53.95	-0.05	54.00	22.54	28.17	3.24	0.00	AVERAGE	100	VERTICAL
2 @	2390.000	69.20	-4.80	74.00	37.79	28.17	3.24	0.00	PEAK	100	VERTICAL
3 @	2410.600	96.35			64.90	28.21	3.24	0.00	AVERAGE	100	VERTICAL
4 @	2410.800	105.78			74.33	28.21	3.24	0.00	PEAK	100	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 11

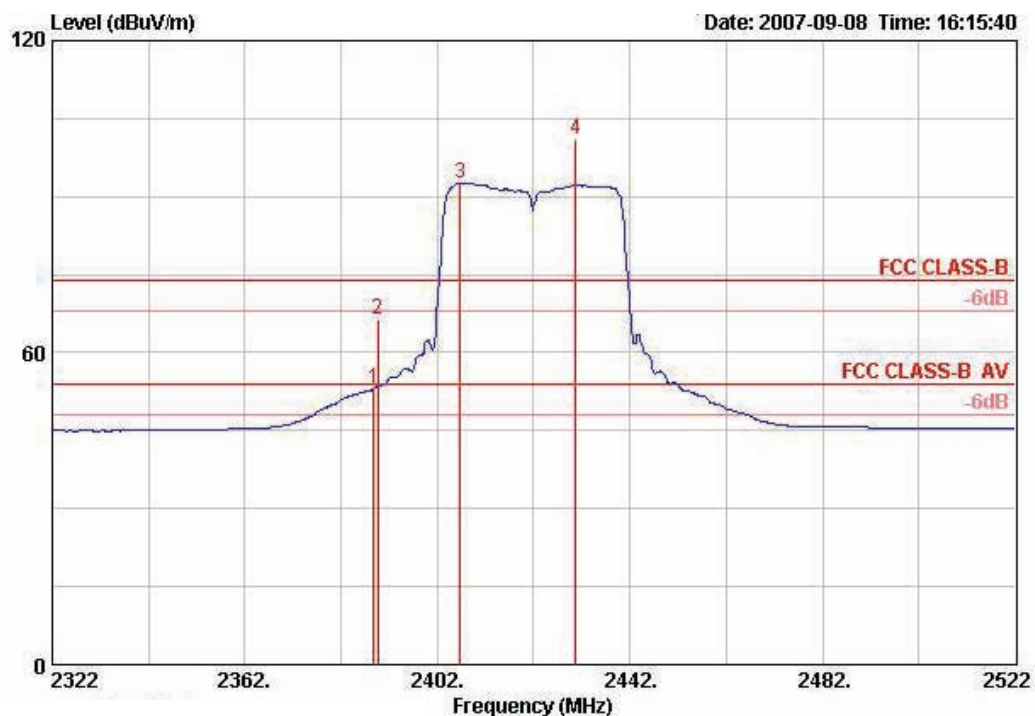


	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp		Ant
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Remark	Pos Pol/Phase
1 @	2465.800	99.81			68.22	28.32	3.27	0.00	AVERAGE	100 VERTICAL
2 @	2466.800	109.51			77.92	28.32	3.27	0.00	PEAK	100 VERTICAL
3 @	2483.700	66.40	-7.60	74.00	34.77	28.36	3.27	0.00	PEAK	100 VERTICAL
4 @	2484.500	50.46	-3.54	54.00	18.83	28.36	3.27	0.00	AVERAGE	100 VERTICAL

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

Temperature	24°C	Humidity	61%
Test Engineer	Aric Lee	Configurations	Draft n MCS8 40MHz Ch 3, 9 Ant. A + Ant. B

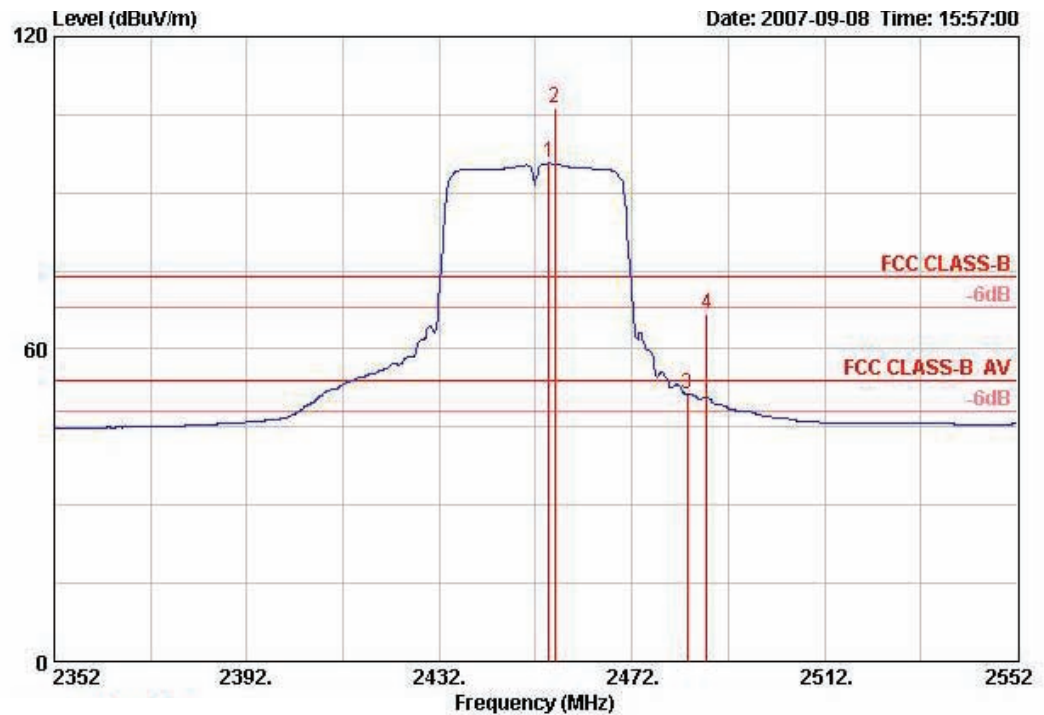
Channel 3



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	
1 @	2388.800	52.96	-1.04	54.00	21.55	28.17	3.24	0.00	AVERAGE	100	VERTICAL
2 @	2389.600	66.36	-7.64	74.00	34.95	28.17	3.24	0.00	PEAK	100	VERTICAL
3 @	2406.800	92.59			61.14	28.21	3.24	0.00	AVERAGE	100	VERTICAL
4 @	2430.800	101.02			69.52	28.25	3.25	0.00	PEAK	100	VERTICAL

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

Channel 9



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp		Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm
1 @	2454.800	95.66			64.08	28.32	3.26	0.00	AVERAGE	100 VERTICAL
2 @	2456.000	106.17			74.59	28.32	3.26	0.00	PEAK	100 VERTICAL
3 @	2483.500	51.28	-2.72	54.00	19.65	28.36	3.27	0.00	AVERAGE	100 VERTICAL
4 @	2487.500	66.81	-7.19	74.00	35.13	28.40	3.28	0.00	PEAK	100 VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

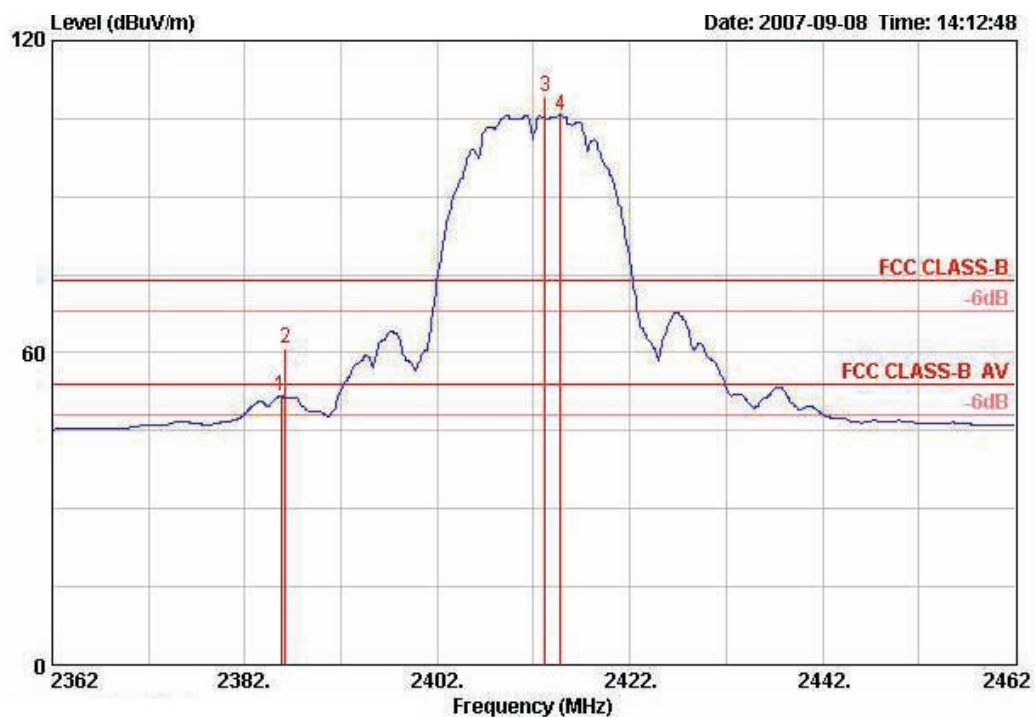
Note:

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	61%
Test Engineer	Aric Lee	Configurations	802.11b CH 1, 11 Ant. A

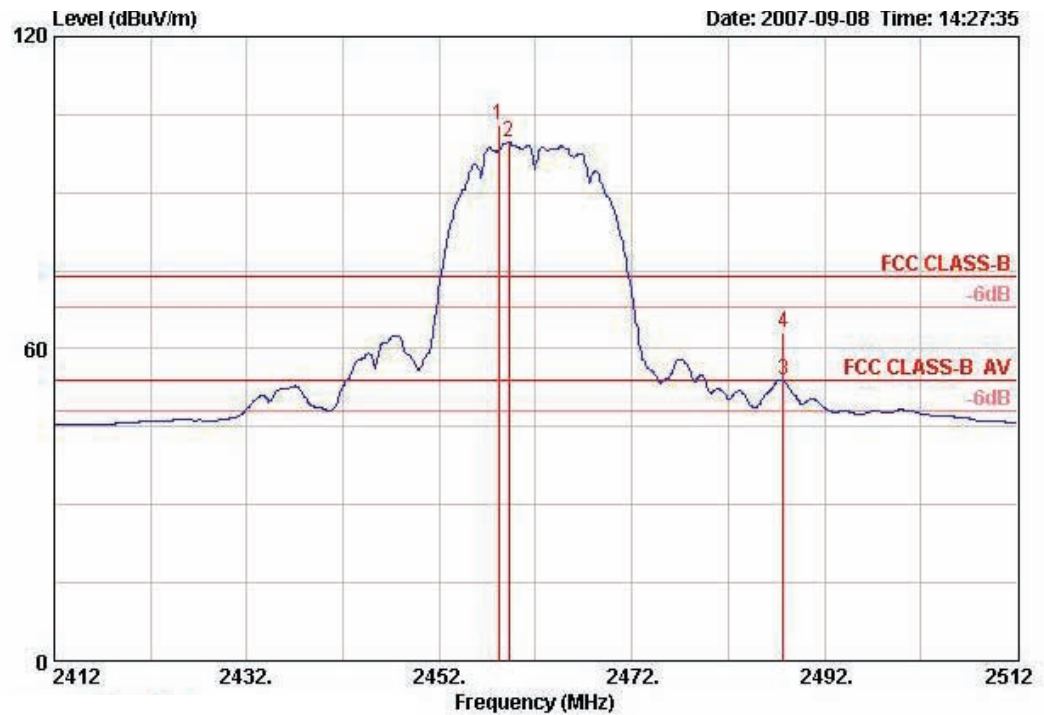
Channel 1



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	
1 @	2385.800	51.55	-2.45	54.00	20.15	28.17	3.23	0.00	AVERAGE	100	VERTICAL
2 @	2386.200	60.83	-13.17	74.00	29.43	28.17	3.23	0.00	PEAK	100	VERTICAL
3 @	2413.200	109.37			77.91	28.21	3.25	0.00	PEAK	100	VERTICAL
4 @	2414.800	105.76			74.30	28.21	3.25	0.00	AVERAGE	100	VERTICAL

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

Channel 11

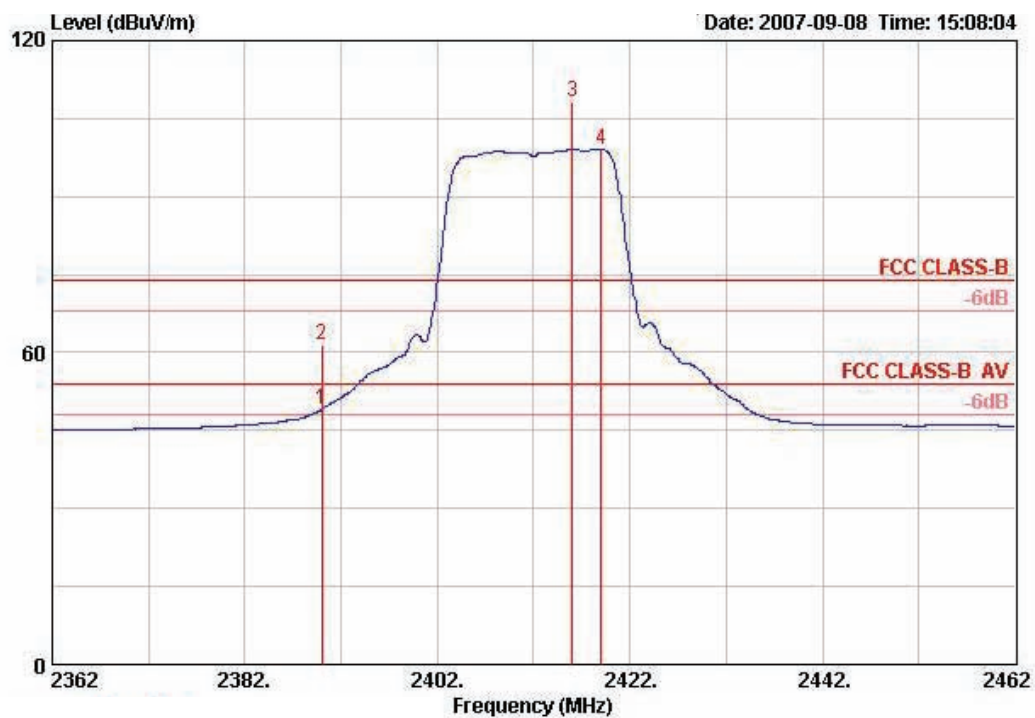


	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp		Ant
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Remark	Pos Pol/Phase
1 @	2458.200	102.84			71.26	28.32	3.26	0.00	PEAK	100 VERTICAL
2 @	2459.200	99.62			68.04	28.32	3.26	0.00	AVERAGE	100 VERTICAL
3 @	2487.700	53.90	-0.10	54.00	22.23	28.40	3.28	0.00	AVERAGE	100 VERTICAL
4 @	2487.700	62.99	-11.01	74.00	31.32	28.40	3.28	0.00	PEAK	100 VERTICAL

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

Temperature	24°C	Humidity	61%
Test Engineer	Aric Lee	Configurations	802.11g CH 1, 11 Ant. A

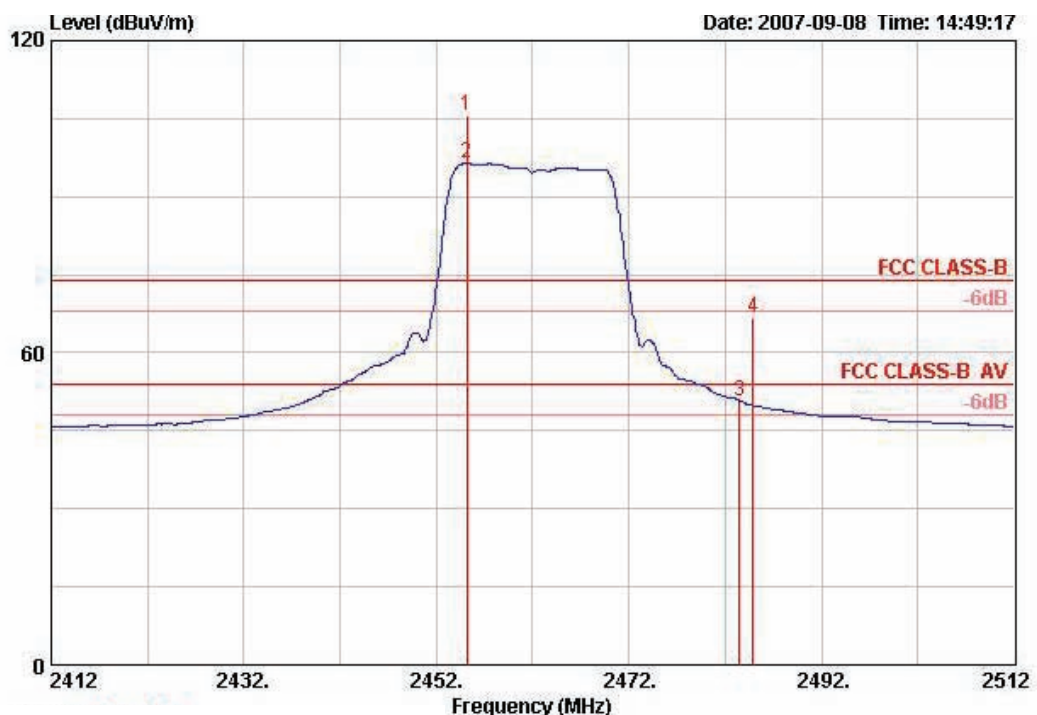
Channel 1



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	
1 @	2390.000	48.95	-5.05	54.00	17.54	28.17	3.24	0.00	AVERAGE	100	VERTICAL
2 @	2390.000	61.51	-12.49	74.00	30.09	28.17	3.24	0.00	PEAK	100	VERTICAL
3 @	2416.000	108.16			76.70	28.21	3.25	0.00	PEAK	100	VERTICAL
4 @	2419.000	99.10			67.64	28.21	3.25	0.00	AVERAGE	100	VERTICAL

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

Channel 11



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp		Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm
1 @	2455.200	105.57			73.99	28.32	3.26	0.00	PEAK	100 VERTICAL
2 @	2455.200	96.41			64.83	28.32	3.26	0.00	AVERAGE	100 VERTICAL
3 @	2483.500	50.77	-3.23	54.00	19.14	28.36	3.27	0.00	AVERAGE	100 VERTICAL
4 @	2484.900	66.79	-7.21	74.00	35.17	28.36	3.27	0.00	PEAK	100 VERTICAL

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

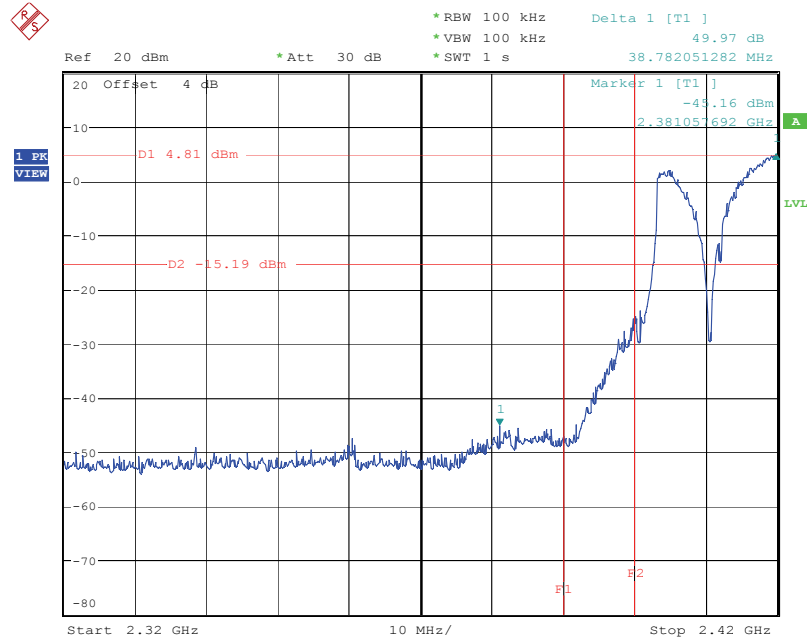
Note:

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

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

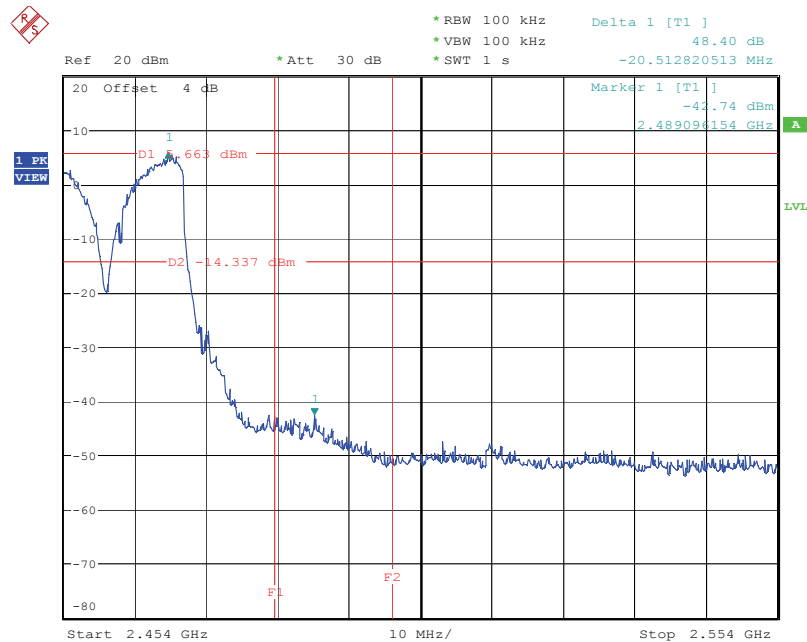
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Draft n MCS8 20MHz Ant. A + Ant. B / 2412 MHz



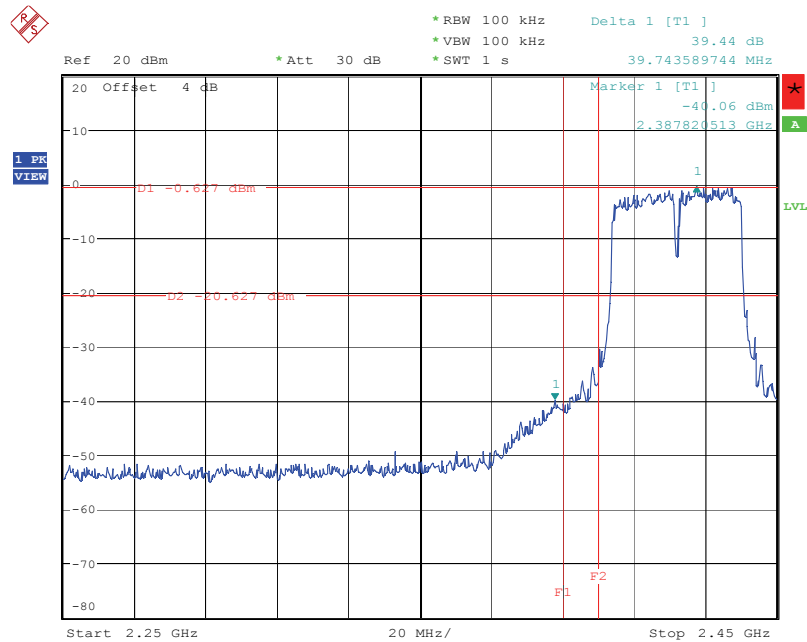
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High Band Edge Plot on Configuration Draft n MCS8 20MHz Ant. A + Ant. B / 2462 MHz



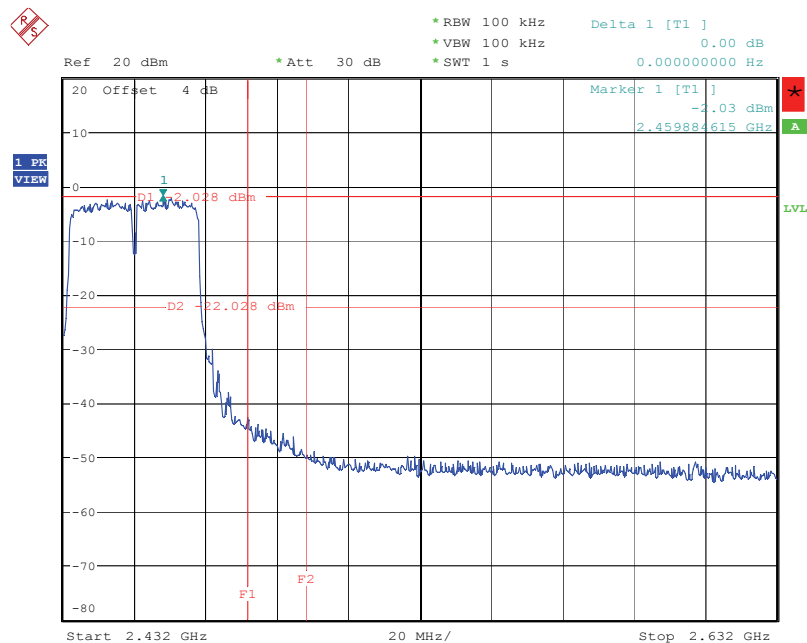
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Low Band Edge Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 2422 MHz



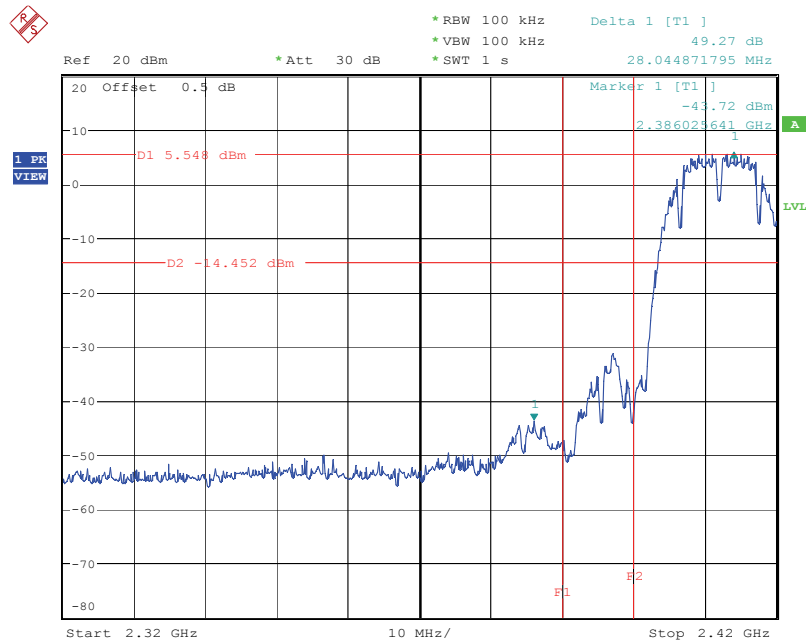
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High Band Edge Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 2452 MHz



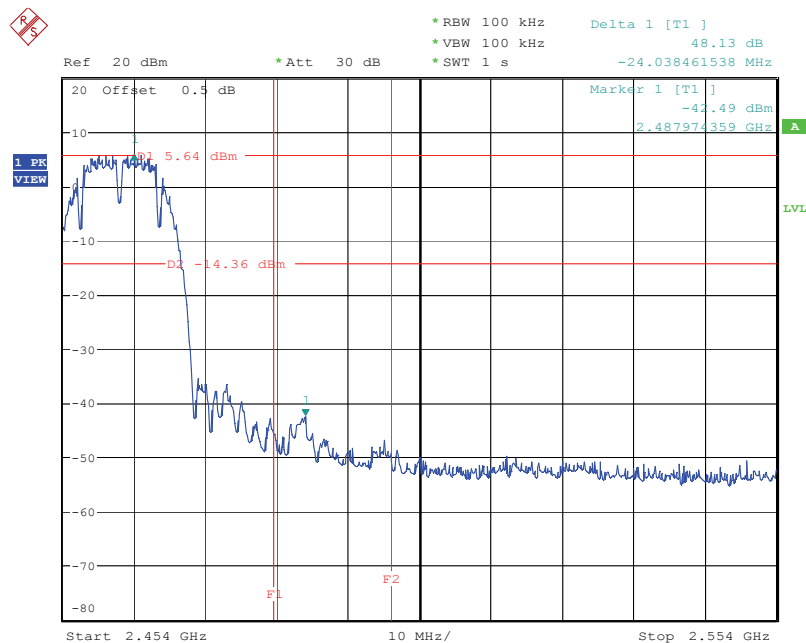
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Low Band Edge Plot on Configuration IEEE 802.11b Ant. A / 2412 MHz



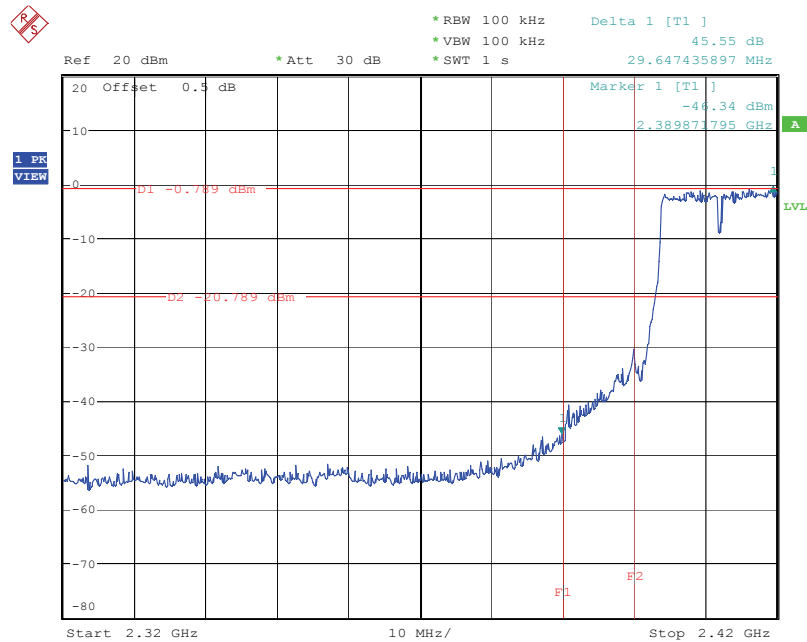
Date: 10.SEP.2007 16:28:11

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



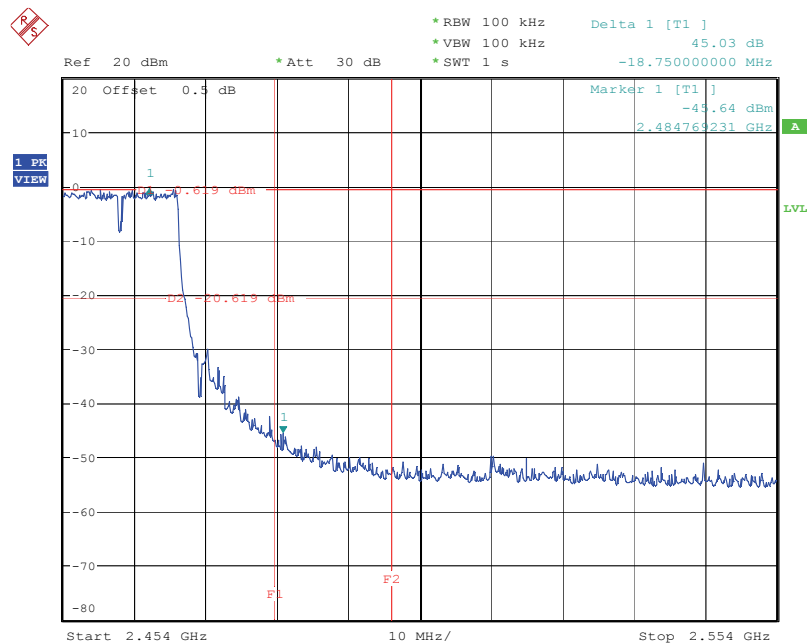
Date: 10.SEP.2007 16:36:14

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



Date: 10.SEP.2007 16:37:51

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



Date: 10.SEP.2007 16:49:15

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	100359	9kHz – 2.75GHz	Mar. 01, 2007	Conduction (CO04-HY)
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, 2007	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, 2007	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, 2007	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz – 30MHz	May 09, 2007	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz – 30MHz	Mar. 27, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	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)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 13, 2008	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	1886	9 kHz - 2 GHz	Jan. 22, 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	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jun. 06, 2008	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 22, 2007*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004/040	9 kHz - 40 GHz	Aug. 31, 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	EMCO	3115	6741	1GHz ~ 18GHz	May 04, 2007	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	NCR	Radiation (03CH03-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
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. 02, 2006	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. 02, 2006	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)

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., 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 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

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