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FCC RADIO TEST REPORT

Applicant's company	MetaLink Ltd.	
Applicant Address Yakum Business Park Yakum 60972 Israel		
FCC ID	VT6-237VB	
Manufacturer's company	MetaLink Ltd.	
Manufacturer Address	Yakum Business Park Yakum 60972 Israel	

Product Name	MtW_RGPlus_5.0_VB_001 802.11n/a video
	bridge
Brand Name	MetaLink
Model Name	MtW_RGPlus_5.0_VB_001
Test Rule Part(s)	47 CFR FCC Part 15 Subpart E § 15.407
Test Freq. Range	5150 ~ 5250MHz
Received Date	Jun. 4, 2008
Final Test Date	Jul. 4, 2008
Submission Type	Original Equipment
Operating Mode	Master



Statement

Test result included is only for the Draft n (5150 \sim 5250MHz) of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full. The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.4-2003 and 47 CFR FCC Part 15 Subpart E. The test equipment used to perform the test is calibrated and traceable to NML/ROC.







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History of This Test Report

Original Issue Date: Jun. 30, 2008

Report No.: FR860613AB

■ No additional attachment.

□ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description



Certificate No.: CB9706097

CERTIFICATE OF COMPLIANCE

Product Name :

MtW_RGPlus_5.0_VB_001 802.11n/a video bridge

Brand Name :

MetaLink

Model Name :

MtW_RGPlus_5.0_VB_001

Applicant :

MetaLink Ltd.

Test Rule Part(s) :

47 CFR FCC Part 15 Subpart E § 15.407

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jun. 4, 2008 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

SPORTON INTERNATIONAL INC.

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2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart E								
Part	Rule Section	Result	Under Limit					
4.1	15.207	AC Power Line Conducted Emissions	Complies	2.77 dB				
4.2	15.407(a)	26dB Spectrum Bandwidth	Complies	-				
4.3	15.407(a)	Maximum Conducted Output Power	Complies	0.11 dB				
4.4	15.407(a)	Power Spectral Density	Complies	6.61 dB				
4.5	15.407(a)	Peak Excursion	Complies	7.58 dB				
4.6	15.407(b)	Radiated Emissions	Complies	4.90 dB				
4.7	15.407(b)	Band Edge Emissions	Complies	1.36 dB				
4.8	15.407(g)	Frequency Stability	Complies	-				
4.9	15.203	Antenna Requirements	Complies	-				

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Conducted Output Power	±0.5dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
Peak Excursion	±0.5dB	Confidence levels of 95%
26dB Spectrum Bandwidth / Frequency Stability	±8.5×10 ⁻⁸	Confidence levels of 95%
Radiated Emissions (9kHz~30MHz)	±0.8dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±1.9dB	Confidence levels of 95%
Radiated / Band Edge Emissions (1GHz~18GHz)	±1.9dB	Confidence levels of 95%
Radiated Emissions (18GHz~40GHz)	±1.9dB	Confidence levels of 95%
Temperature	±0.7°C	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%

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3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Product Type	WLAN (2TX, 3RX)
Radio Type	Intentional Transceiver
Power Type	Power Adapter
Modulation	see the below table for draft n
Data Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	see the below table for Draft n
Frequency Range	5150 ~ 5250MHz
Channel Number	4 for 20MHz bandwidth ; 2 for 40MHz bandwidth
Channel Band Width (99%)	MCS0 (20MHz): 17.44 MHz
	MCS0 (40MHz) : 33.44 MHz
Conducted Output Power	Band 1: MCS0 (20MHz) : 16.89 dBm
	MCS0 (40MHz) : 16.80 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

Antenna & Band width

Antenna	Multiple(TX)				
Band width Mode	20 MHz	40 MHz			
802.11a	V	X			
802.11a Draft n	V	V			

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Draft n spec

					NCBPS			NDBPS		Datarate(Mbps)			
MCS Index	Nss	Modulation	R	NBPSC	INC	,DF3	NDBr3		800nsGl		nsGI	400nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.200	15	
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.400	30	
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.700	45	
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.900	60	
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.300	90	
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.800	120	
6	1	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.000	135	
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.200	150	
8	2	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.444	30	
9	2	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.889	60	
10	2	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.333	90	
11	2	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.778	120	
12	2	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.667	180	
13	2	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.556	240	
14	2	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.000	270	
15	2	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.444	300	

Symbol	Explanation		
NSS	Number of spatial streams		
R	code rate		
NBPSC	Number of coded bits per single carrier		
NCBPS	Number of coded bits per symbol		
NDBPS	Number of data bits per symbol		
GI	guard interval		

3.2. Accessories

Power	Brand	Model	Rating
Adapter	LEI	MT12-4120100-A1	Input: 120V, 50/60Hz, 0.3A
			Output: 12V, 1A
		Others	
Cradle			

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3.3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
Α	WHA YU	C1264-510006-A	Dipole Antenna	MHF	2
В	WHA YU	C1264-510006-A	Dipole Antenna	MHF	2
С	WHA YU	C1264-510006-A	Dipole Antenna	MHF	2

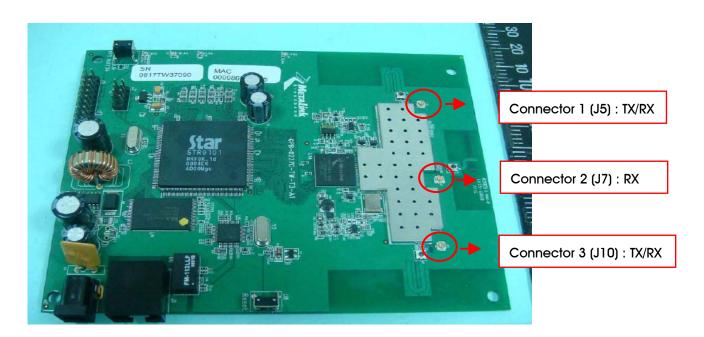
Note:

The EUT has three antennas(2TX, 3RX).

The EUT has three antenna connectors, the Connector 1 and the Connector 3 have both TX/RX function , Connector 2 have only RX function.

Connector 1 : Ant. A Connector 2 : Ant. B Connector 3 : Ant. C

Ant. A & Ant. C could transmit/receive simultaneously.



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3.4. Table for Carrier Frequencies

There are two bandwidth systems for draft n.

For both 20MHz bandwidth systems, use Channel 36, 40, 44, 48.

For both 40MHz bandwidth systems, use Channel 38, 46.

Frequency Band	ency Band Channel No. Frequency Chan		Channel No.	Frequency
5150~5250 MHz	36	5180 MHz	44	5220 MHz
Band 1	38	5190 MHz	46	5230 MHz
	40	5200 MHz	48	5240 MHz



3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mod	е	Data Rate	Channel	Antenna
AC Power Conducted Emission	Normal Link		Auto	-	-
Max. Conducted Output Power	MCS0/20MHz	Band 1	13Mbps	36/40/48	A / C / A+C
	MCS0/40MHz	Band 1	27Mbps	38/46	A / C / A+C
26dB Spectrum Bandwidth	MCS0/20MHz	Band 1	13Mbps	36/40/48	A+C
99% Occupied Bandwidth	MCS0/40MHz	Band 1	27Mbps	38/46	A+C
Measurement					
Power Spectral Density					
Peak Excursion					
Radiated Emission Below 1GHz	Normal Link		Auto	-	-
Radiated Emission Above 1GHz	MCS0/20MHz	Band 1	13Mbps	36/40/48	A+C
	MCS0/40MHz	Band 1	27Mbps	38/46	A+C
Band Edge Emission	MCS0/20MHz	Band 1	13Mbps	36/40	A+C
	MCS0/40MHz	Band 1	27Mbps	38/46	A+C
Frequency Stability	Un-modulation		-	40	A+C

Note:

Test Mode:

Mode 1 : EUT is put in Horizontal way Mode 2: EUT is put in Vertical way

<For Conducted Emission>:

Due to Mode 2 generated the worst test result, so it was recorded in this report.

<For Radiated Emission>:

Due to Mode 1 generated the worst test result, so it was recorded in this report.

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3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	101377	IC 4088	-
CO04-HY	Conduction	Hwa Ya	101377	IC 4088	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

Please refer section 6 for Test Site Address.

3.7. Table for Supporting Units

Support Unit	Brand	FCC ID			
Notebook	DELL	1200	E2K4965AGNM		
Notebook	Notebook DELL D400		E2K24GBRL		

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3.8. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters of Draft n MCSO 20MHz

Test Software Version	DUT						
Frequency	5180 MHz	5200 MHz	5240 MHz				
Draft n Ant. A	25	25	24				
Draft n Ant. C	24	24	24				

Power Parameters of Draft n MCSO 40MHz

Test Software Version	DUT					
Frequency	5190 MHz	5230 MHz				
Draft n Ant. A	25	24				
Draft n Ant. C	25	24				

During the test, "Ping.exe" under WIN XP was executed to link with the remote workstation to receive and transmit signal by LAN and WLAN.

During testing, the remote wire network ancillary were connected by EUT.

Executed " DUT " to control the EUT continuously transmit RF signal.

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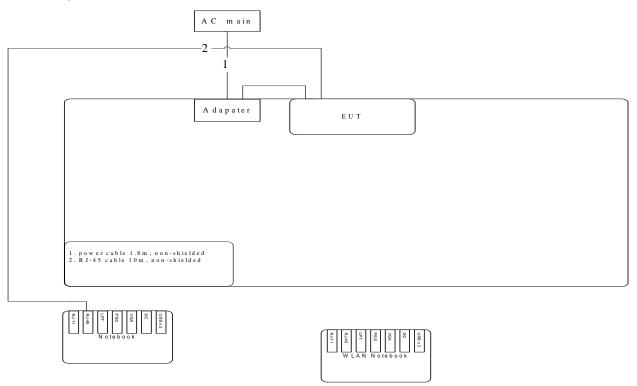




3.9. Test Configurations

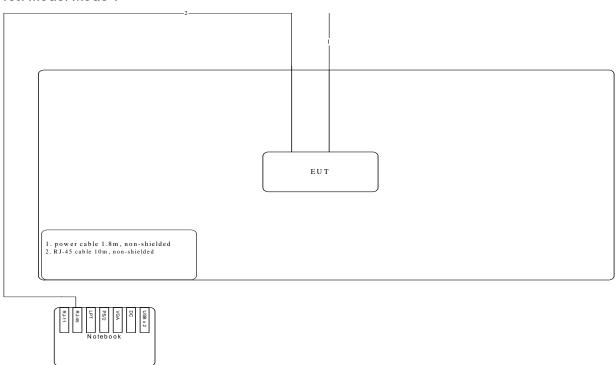
3.9.1. Radiation Emissions Test Configuration

Test Configuration: 9KHz~1GHz



Test Configuration: above 1GHz

Test Mode: Mode 1



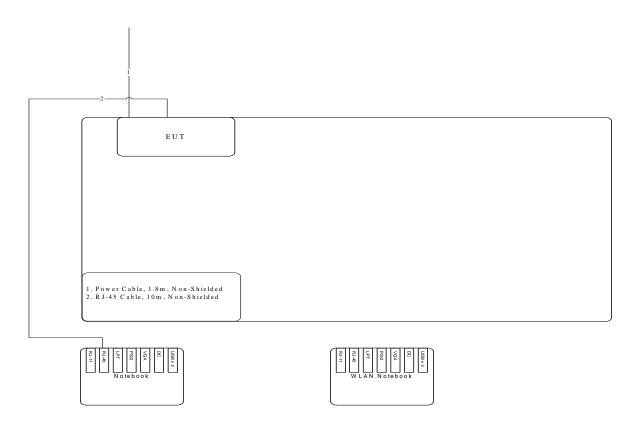
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3.9.2. AC Power Line Conduction Emissions Test Configuration

Test Mode: Mode 2



4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For this product that is designed to connect to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)		
0.15~0.5	66~56	56~46		
0.5~5	56	46		
5~30	60	50		

4.1.2. Measuring Instruments and Setting

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

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.3. Test Procedures

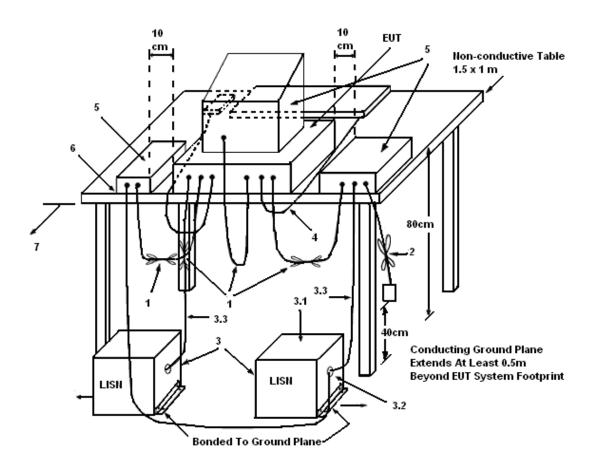
- Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far
 from the conducting wall of the shielding room and at least 80 centimeters from any other
 grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- 4. The frequency range from 150 KHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. The measurement has to be done between each power line and ground at the power terminal.

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4.1.4. Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.



4.1.5. Test Deviation

There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

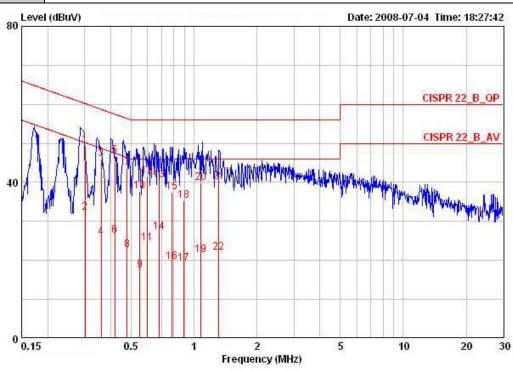
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4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	23°C	Humidity	54%
Test Engineer	Johnson Chang Phase		Line
Configuration	Normal Link / Mode 2		



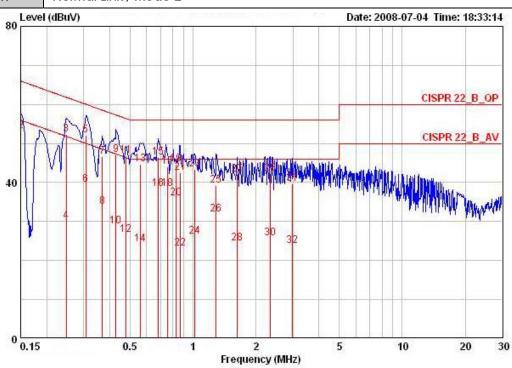
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	- dB	dB	
1	0.30230	49.46	-10.72	60.18	49.22	0.04	0.20	QP
2	0.30230	32.37	-17.81	50.18	32.13	0.04	0.20	AVERAGE
3	0.35983	46.05	-12.68	58.73	45.82	0.03	0.20	QP
3 4	0.35983	26.04	-22.69	48.73	25.81	0.03	0.20	AVERAGE
5	0.41903	46.85	-10.62	57.47	46.62	0.03	0.20	QP
5 6 7	0.41903	26.30	-21.17	47.47	26.07	0.03	0.20	AVERAGE
	0.47838	43.52	-12.85	56.37	43.36	0.03	0.13	QP
8	0.47838	22.74	-23.63	46.37	22.58	0.03	0.13	AVERAGE
9	0.55054	17.51	-28.49	46.00	17.28	0.03	0.20	AVERAGE
LO	0.55054	37.71	-18.29	56.00	37.48	0.03	0.20	QP
L1	0.59873	24.44	-21.56	46.00	24.21	0.03	0.20	AVERAGE
L2	0.59873	41.70	-14.30	56.00	41.47	0.03	0.20	QP
L3	0.68090	40.59	-15.41	56.00	40.36	0.03	0.20	QP
L4	0.68090	27.21	-18.79	46.00	26.98	0.03	0.20	AVERAGE
L5	0.78345	37.57	-18.43	56.00	37.34	0.03	0.20	QP
L6	0.78345	19.56	-26.44	46.00	19.33	0.03	0.20	AVERAGE
L7	0.88969	19.27	-26.73	46.00	19.04	0.03	0.20	AVERAGE
18	0.88969	35.36	-20.64	56.00	35.13	0.03	0.20	QP
L9	1.080	21.40	-24.60	46.00	21.19	0.03	0.18	AVERAGE
20	1.080	39.80	-16.20	56.00	39.59	0.03	0.18	QP
21	1.314	40.00	-16.00	56.00	39.83	0.04	0.13	QP
22	1.314	22.05	-23.95	46.00	21.88	0.04	0.13	AVERAGE

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Temperature	23°C	Humidity	54%			
Test Engineer	Johnson Chang	Phase	Neutral			
Configuration	Normal Link / Mode 2					



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	-
1	0.15000	56.46	-9.54	66.00	56.15	0.11	0.20	QP
2 @	0.15000	53.23	-2.77	56.00	52.92	0.11	0.20	AVERAGE
3	0.24814	52.38	-9.44	61.82	52.10	0.08	0.20	QP
4	0.24814	30.11	-21.71	51.82	29.83	0.08	0.20	AVERAGE
5	0.30751	52.01	-8.02	60.04	51.74	0.07	0.20	QP
6	0.30751	39.39	-10.64	50.04	39.12	0.07	0.20	AVERAGE
7	0.36920	46.66	-11.86	58.52	46.39	0.07	0.20	QP
8	0.36920	33.81	-14.71	48.52	33.54	0.07	0.20	AVERAGE
9	0.42825	47.15	-10.14	57.29	46.88	0.07	0.20	QP
10	0.42825	28.80	-18.49	47.29	28.53	0.07	0.20	AVERAGE
11	0.47865	46.83	-9.54	56.36	46.63	0.07	0.13	QP
12	0.47865	26.52	-19.85	46.36	26.32	0.07	0.13	AVERAGE
13	0.56111	44.59	-11.41	56.00	44.32	0.07	0.20	QP
14	0.56111	24.25	-21.75	46.00	23.98	0.07	0.20	AVERAGE
15	0.68263	46.51	-9.49	56.00	46.24	0.07	0.20	QP
16	0.68263	38.31	-7.69	46.00	38.04	0.07	0.20	AVERAGE
17	0.75702	44.13	-11.87	56.00	43.86	0.07	0.20	QP
18	0.75702	38.42	-7.58	46.00	38.15	0.07	0.20	AVERAGE
19	0.83143	44.65	-11.35	56.00	44.38	0.07	0.20	QP
20	0.83143	35.90	-10.10	46.00	35.63	0.07	0.20	AVERAGE
21	0.86643	42.59	-13.41	56.00	42.32	0.07	0.20	QP
22	0.86643	23.10	-22.90	46.00	22.83	0.07	0.20	AVERAGE
23	1.021	43.32	-12.68	56.00	43.05	0.07	0.19	QP

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	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBu∀	dB	dB	3
24	1.021	26.11	-19.89	46.00	25.84	0.07	0.19	AVERAGE
25	1.289	39.19	-16.81	56.00	38.97	0.08	0.14	QP
26	1.289	31.78	-14.22	46.00	31.56	0.08	0.14	AVERAGE
27	1.619	41.98	-14.02	56.00	41.77	0.08	0.13	QP
28	1.619	24.31	-21.69	46.00	24.10	0.08	0.13	AVERAGE
29	2.334	42.27	-13.73	56.00	41.97	0.10	0.20	QP
30	2.334	25.70	-20.30	46.00	25.40	0.10	0.20	AVERAGE
31	2.993	39.63	-16.37	56.00	39.31	0.12	0.20	QP
32	2.993	23.69	-22.31	46.00	23.37	0.12	0.20	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss.

4.2. 99% Occupied Bandwidth Measurement

4.2.1. Limit

No restriction limits. But resolution bandwidth within band edge measurement is 1% of the 99% occupied bandwidth.

4.2.2. Measuring Instruments and Setting

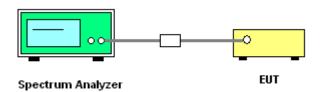
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RB	300 kHz
VB	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.2.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth of 300 kHz and the video bandwidth of 1000 kHz were used.
- 3. Measured the spectrum width with power higher than 26dB below carrier.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.2.7. Test Result of 99% Occupied Bandwidth

Temperature	26°C	Humidity	56%
Test Engineer	Sam Chen	Configurations	Draft n

Configuration Draft n MCS0 20MHz Ant. A + Ant. C

Channel	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
36	5180 MHz	18.88	17.28
40	5200 MHz	18.88	17.28
48	5240 MHz	18.88	17.44

Configuration Draft n MCS0 40MHz Ant. A + Ant. C

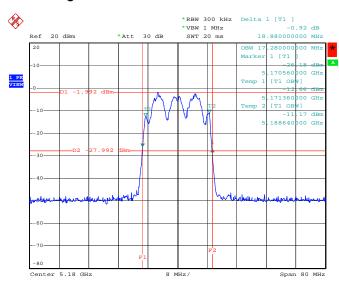
Channel	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
38	5190 MHz	37.28	33.44
46	5230 MHz	37.28	33.44

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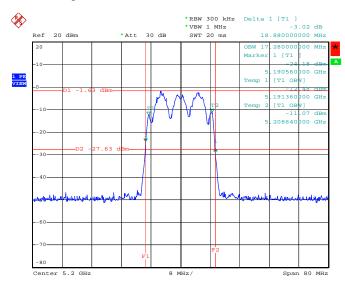


26 dB Bandwidth Plot on Configuration Draft n MCSO 20MHz Ant. A + Ant. C / 5180 MHz



Date: 7.JUN.2008 08:52:15

26 dB Bandwidth Plot on Configuration Draft n MCS0 20MHz Ant. A + Ant. C / 5200 MHz



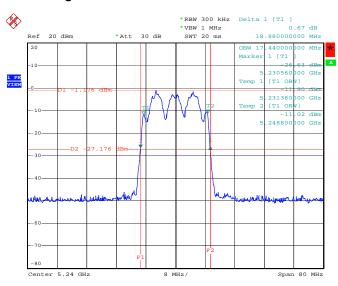
Date: 7.JUN.2008 08:53:10

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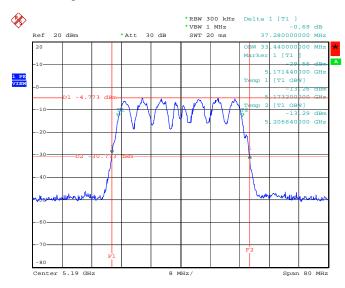


26 dB Bandwidth Plot on Configuration Draft n MCSO 20MHz Ant. A + Ant. C / 5240 MHz



Date: 7.JUN.2008 08:54:10

26 dB Bandwidth Plot on Configuration Draft n MCS0 40MHz Ant. A + Ant. C / 5190 MHz

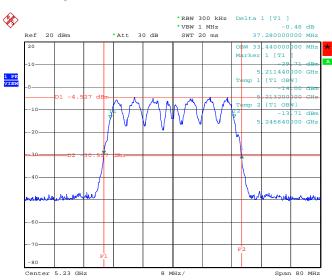


Date: 7.JUN.2008 09:05:45

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26 dB Bandwidth Plot on Configuration Draft n MCSO 40MHz Ant. A + Ant. C / 5230 MHz



Date: 7.JUN.2008 09:07:26

4.3. Maximum Conducted Output Power Measurement

4.3.1. Limit

For the band 5.15~5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B, where B is the 26 dB emissions bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power and power density from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.470-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power and power density from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W (30dBm) or 17 dBm + 10log B. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power and power density from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain up to 23 dBi without any corresponding reduction in the transmitter peak output power and peak power spectral density. For fixed, point-to-point U-NII transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in peak transmitter power and peak power spectral density for each 1 dB of antenna gain in excess of 23 dBi would be required.

4.3.2. 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	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz
VB	3000 kHz
Detector	PEAK
Trace	MAX HOLD
Sweep Time	Auto

4.3.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

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- 2. Test was performed in accordance with FCC Public Notice DA 02-2138, August 30, 2002.
- 3. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



4.3.7. Test Result of Maximum Conducted Output Power

Temperature	26°C	Humidity	56%
Test Engineer	Sam Chen	Configurations	Draft n

Configuration Draft n MCS0 20MHz Ant. A

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
36	5180 MHz	13.62	17.00	Complies
40	5200 MHz	13.93	17.00	Complies
48	5240 MHz	14.34	17.00	Complies

Configuration Draft n MCS0 20MHz Ant. C

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
36	5180 MHz	13.68	17.00	Complies
40	5200 MHz	13.83	17.00	Complies
48	5240 MHz	13.34	17.00	Complies

Configuration Draft n MCS0 20MHz Ant. A + Ant. C

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
36	5180 MHz	16.66	17.00	Complies
40	5200 MHz	16.89	17.00	Complies
48	5240 MHz	16.88	17.00	Complies

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Configuration Draft n MCSO 40MHz Ant. A

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
38	5190 MHz	13.37	17.00	Complies
46	5230 MHz	13.93	17.00	Complies

Configuration Draft n MCS0 40MHz Ant. C

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
38	5190 MHz	14.18	17.00	Complies
46	5230 MHz	13.40	17.00	Complies

Configuration Draft n MCS0 40MHz Ant. A + Ant. C

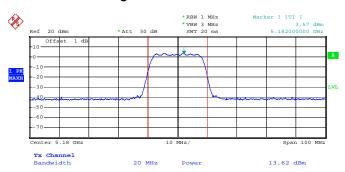
Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
38	5190 MHz	16.80	17.00	Complies
46	5230 MHz	16.68	17.00	Complies

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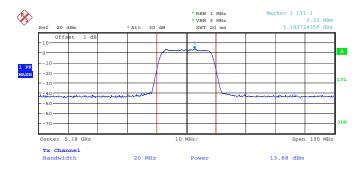


Conducted Output Power Plot on Configuration Draft n MCS0 20MHz Ant. A / 5180 MHz



Date: 7.JUN.2008 07:52:20

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz Ant. C / 5180 MHz



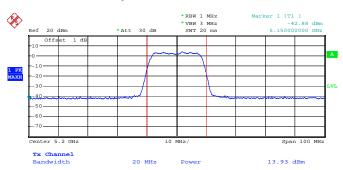
Date: 27.JUN.2008 15:45:26

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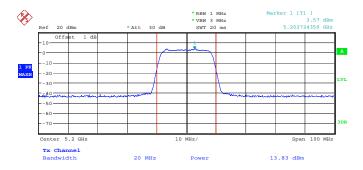


Conducted Output Power Plot on Configuration Draft n MCS0 20MHz Ant. A / 5200 MHz



Date: 7.JUN.2008 07:48:57

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz Ant. C/ 5200 MHz



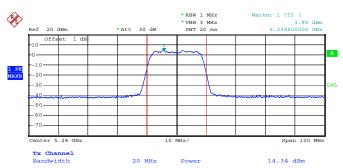
Date: 27.JUN.2008 15:47:11

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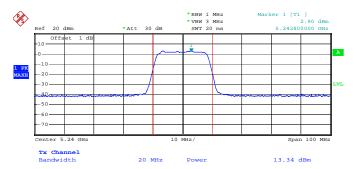


Conducted Output Power Plot on Configuration Draft n MCS0 20MHz Ant. A / 5240 MHz



Date: 7.JUN.2008 07:46:43

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz Ant. C / 5240 MHz



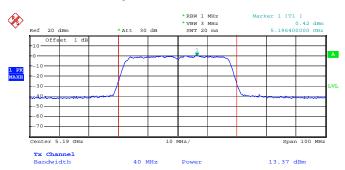
Date: 7.JUN.2008 07:44:52

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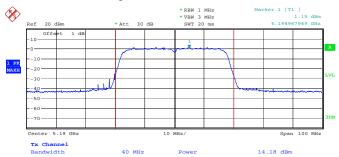


Conducted Output Power Plot on Configuration Draft n MCS0 40MHz Ant. A / 5190 MHz



Date: 7.JUN.2008 07:59:57

Conducted Output Power Plot on Configuration Draft n MCS0 40MHz Ant. C / 5190 MHz



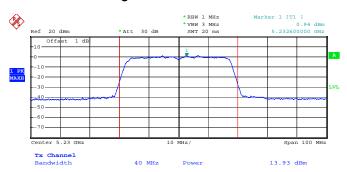
Date: 27.JUN.2008 15:49:56

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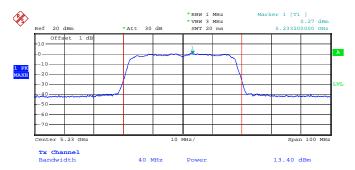


Conducted Output Power Plot on Configuration Draft n MCS0 40MHz Ant. A / 5230 MHz



Date: 7.JUN.2008 08:10:35

Conducted Output Power Plot on Configuration Draft n MCS0 40MHz Ant. C / 5230 MHz



Date: 7.JUN.2008 08:06:14

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4.4. Power Spectral Density Measurement

4.4.1. Limit

The power spectral density is defined as the highest level of power in dBm per MHz generated by the transmitter within the power envelope. The following table is power spectral density limits and decrease power density limit rule refer to section 4.3.1.

Frequency Range	Power Spectral Density limit (dBm/MHz)	
5.15~5.25 GHz	4	

4.4.2. Measuring Instruments and Setting

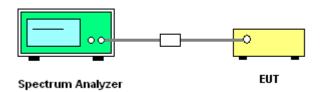
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz
VB	3000 kHz
Detector	Sample
Trace	Max Hold
Sweep Time	Auto

4.4.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. Set RBW of spectrum analyzer to 1000kHz and VBW to 3000kHz. Set Detector to Peak, Trace to Max Hold. Mark the frequency with maximum peak power as the center of the display of the spectrum.
- Measuring multiple antennas, the connector is required to link with spectrum analyser through a combiner.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

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4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of Power Spectral Density

Temperature	26°C	Humidity	56%
Test Engineer	Sam Chen	Configurations	Draft n

Configuration Draft n MCS0 20MHz Ant. A + Ant. C

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
36	5180 MHz	-3.09	4.00	Complies
40	5200 MHz	-2.65	4.00	Complies
48	5240 MHz	-2.61	4.00	Complies

Configuration Draft n MCS0 40MHz Ant. A + Ant. C

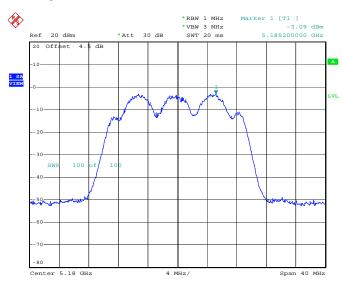
Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
38	5190 MHz	-5.57	4.00	Complies
46	5230 MHz	-5.45	4.00	Complies

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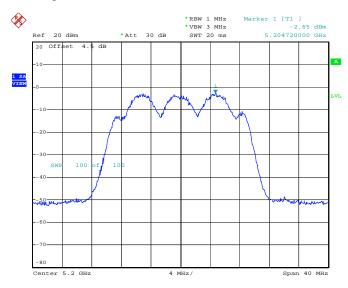


Power Density Plot on Configuration Draft n MCS0 20MHz Ant. A + Ant. C / 5180 MHz



Date: 7.JUN.2008 08:52:21

Power Density Plot on Configuration Draft n MCS0 20MHz Ant. A + Ant. C / 5200 MHz



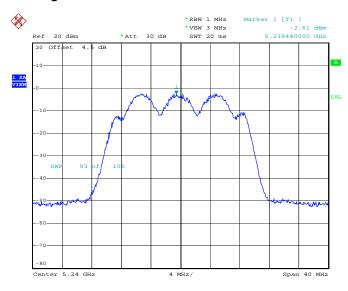
Date: 7.JUN.2008 08:53:16

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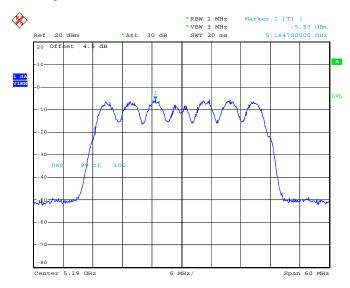


Power Density Plot on Configuration Draft n MCS0 20MHz Ant. A + Ant. C / 5240 MHz



Date: 7.JUN.2008 08:54:17

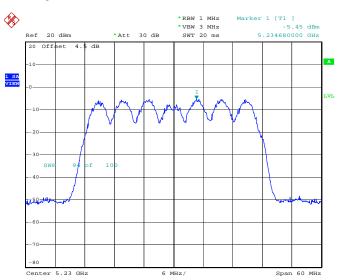
Power Density Plot on Configuration Draft n MCS0 40MHz Ant. A + Ant. C / 5190 MHz



Date: 7.JUN.2008 09:05:52



Power Density Plot on Configuration Draft n MCS0 40MHz Ant. A + Ant. C / 5230 MHz



Date: 7.JUN.2008 09:07:33

4.5. Peak Excursion Measurement

4.5.1. Limit

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less.

4.5.2. Measuring Instruments and Setting

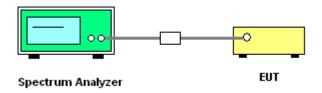
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz (Peak Trace) / 1000 kHz (Average Trace)
VB	3000 kHz (Peak Trace) / 300 kHz (Average Trace)
Detector	Peak (Peak Trace) / Sample (Average Trace)
Trace	Max Hold
Sweep Time	60s

4.5.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. Set the spectrum analyzer span to view the entire emissions bandwidth. The largest difference between the following two traces (Peak Trace and Average Trace) must be ≤ 13 dB for all frequencies across the emissions bandwidth. Submit a plot.
- 3. Peak Trace: Set RBW = 1 MHz, VBW \geq 3 MHz with peak detector and max-hold settings.
- 4. Average Trace: Method #3—video averaging with max hold--and sum power across the band. Set span to encompass the entire emissions bandwidth (EBW) of the signal. Set sweep trigger to "free run". Set RBW = 1 MHz. Set VBW \geq 1/T (Draft n VBW = 300kHz \geq 1/4 μ s). Use sample detector mode if bin width (i.e., span/number of points in spectrum) < 0.5 RBW. Otherwise use peak detector mode. Set max hold. Allow max hold to run for 60 seconds.
- Measuring multiple antennas, the connector is required to link with spectrum analyzer through a combiner.

4.5.4. Test Setup Layout



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4.5.5. Test Deviation

There is no deviation with the original standard.

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4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Test Result of Peak Excursion

Temperature	26℃	Humidity	56%
Test Engineer	Sam Chen	Configurations	Draft n

Configuration Draft n MCS0 20MHz Ant. A + Ant. C

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
36	5180 MHz	5.42	13	Complies
40	5200 MHz	3.09	13	Complies
48	5240 MHz	4.54	13	Complies

Configuration Draft n MCS0 40MHz Ant. A + Ant. C

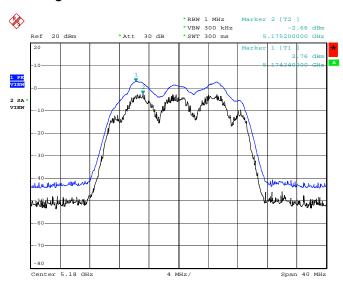
Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
38	5190 MHz	4.37	13	Complies
46	5230 MHz	4.45	13	Complies

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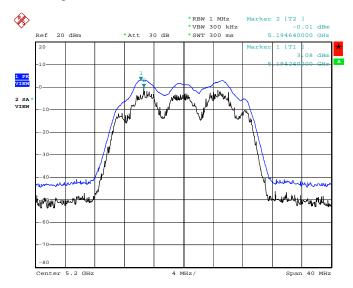


Peak Excursion Plot on Configuration Draft n MCSO 20MHz Ant. A + Ant. C / 5180 MHz



Date: 7.JUN.2008 08:52:33

Peak Excursion Plot on Configuration Draft n MCS0 20MHz Ant. A + Ant. C / 5200 MHz

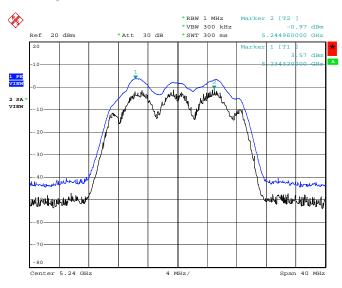


Date: 7.JUN.2008 08:53:28



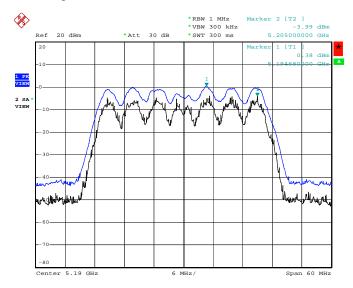


Peak Excursion Plot on Configuration Draft n MCSO 20MHz Ant. A + Ant. C / 5240 MHz



Date: 7.JUN.2008 08:54:29

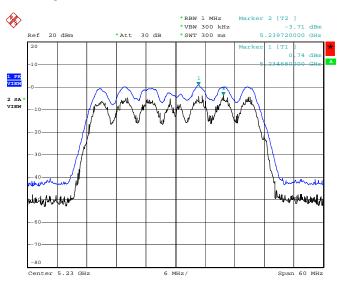
Peak Excursion Plot on Configuration Draft n MCSO 40MHz Ant. A + Ant. C / 5190 MHz



Date: 7.JUN.2008 09:06:04



Peak Excursion Plot on Configuration Draft n MCSO 40MHz Ant. A + Ant. C / 5230 MHz



Date: 7.JUN.2008 09:07:45

4.6. Radiated Emissions Measurement

4.6.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.470-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBuV/m at 3m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, 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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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 spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1000KHz / 1000KHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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4.6.3. Test Procedures

Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8
meter above ground. The phase center of the receiving antenna mounted on the top of a
height-variable antenna tower was placed 3 meters far away from the turntable.

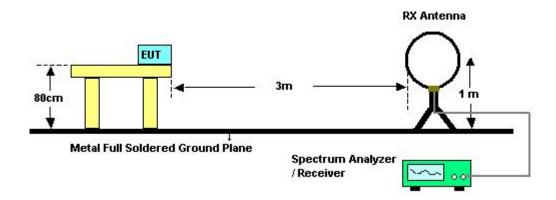
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



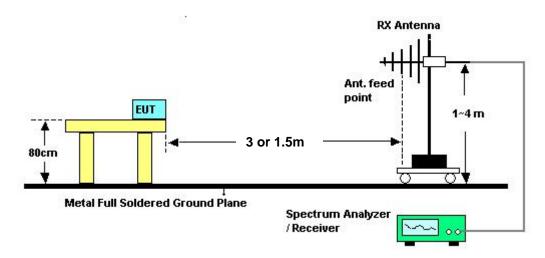


4.6.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

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.

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4.6.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	23°C	Humidity	54%
Test Engineer	Aric Li	Configurations	Normal Link

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

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

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

 $\label{limit} \mbox{Limit line} = \mbox{specific limits (dBuV)} + \mbox{distance extrapolation factor}.$

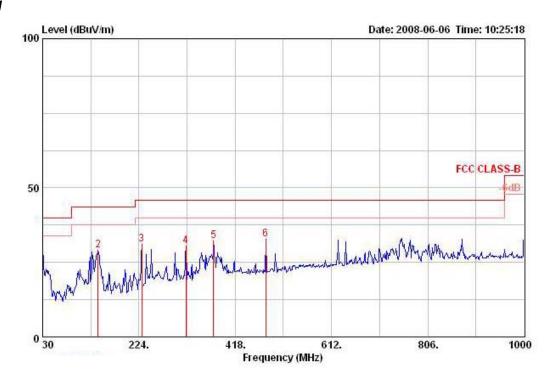
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4.6.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	23°C	Humidity	54%
Test Engineer	Aric Li	Configurations	Normal Link

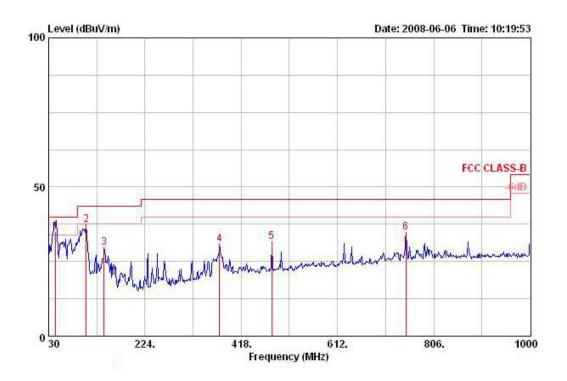
Horizontal



			Over	Limit	Read	Antenna	Preamp	Cable		Table	Ant	
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pos	Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ì	deg	cm	-
1 0	30.000	28.92	-11.08	40.00	38.22	18.00	27.80	0.50	Peak	0	100	HORIZONTAL
2 @	141.550	29.14	-14.36	43.50	44.81	10.32	27.39	1.41	Peak	0	100	HORI ZONTAL
3 @	229.820	31.15	-14.85	46.00	46.77	9.60	27.04	1.82	Peak	0	100	HORIZONTAL
4 @	319.060	30.59	-15.41	46.00	41.92	13.57	27.03	2.14	Peak	0	100	HORI ZONTAL
5 @	374.350	32.10	-13.90	46.00	42.49	14.79	27.42	2.25	Peak	0	100	HORI ZONTAL
6 @	479.110	32.82	-13.18	46.00	41.09	17.07	27.99	2.66	Peak	0	100	HORI ZONTAL

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Vertical



			Over	Limit	Read	Antenna	Preamp	Cable		Table	Ant	
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pos	Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	it	deg	cm	
10	44.000	35.10	-4.90	40.00	52.45	9.75	27.80	0.70	QP	248	100	VERTICAL
2 @	105.660	37.27	-6.23	43.50	52.71	10.94	27.57	1.20	Peak	0	400	VERTICAL
3 @	141.550	29.63	-13.87	43.50	45.30	10.32	27.39	1.41	Peak	0	400	VERTICAL
4 @	374.350	30.76	-15.24	46.00	41.14	14.79	27.42	2.25	Peak	0	400	VERTICAL
5 @	479.110	31.61	-14.39	46.00	39.87	17.07	27.99	2.66	Peak	0	400	VERTICAL
6 @	749.740	34.63	-11.37	46.00	38.86	20.07	27.80	3.50	Peak	0	400	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.

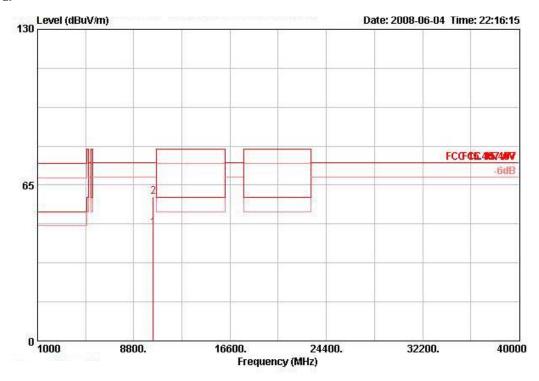
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4.6.9. Results for Radiated Emissions (1GHz~40GHz)

Temperature	23°C	Humidity	54%			
Test Engineer	Aric Li	Configurations	Draft n MCS0 20MHz Ch 36 Ant. A + Ant. C /			
	AIIC LI	Configurations	Mode 1			

Horizontal



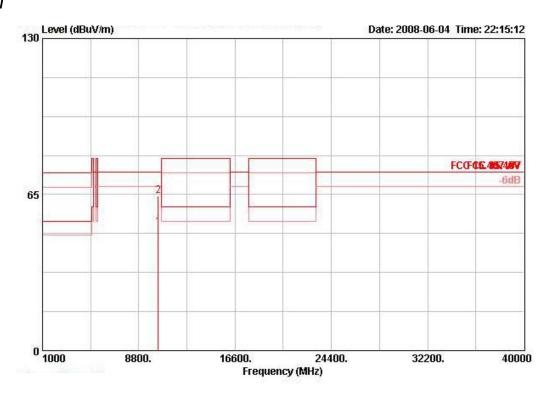
Freq	Level		Limit Line		Antenna Factor			Remark	Ant Pos	Table Pos	Pol/Phase
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
10361.800	60.23	-14.07	74.30	49.98	39.76	5.23	34.74	PEAK	102	131	HORTZONTAL

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Vertical



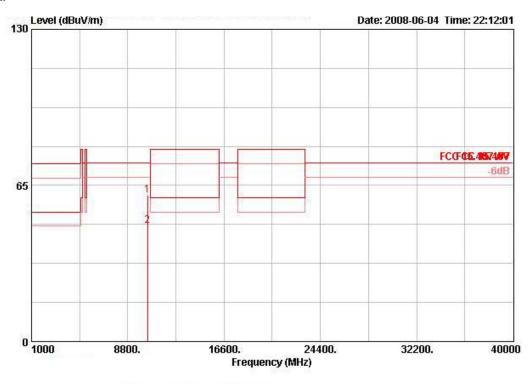
Freq	Level				Antenna Factor				Ant Pos	Table Pos	Pol/Phase
MHz	dBuV/m	dB	dBuV/m	₫BuV	dB/m	dB	dB	N	- Cm	deg	· · · · · · · · · · · · · · · · · · ·
10364.080	64.30	-10.00	74.30	54.06	39.76	5.23	34.74	PEAK	102	108	VERTICAL





Temperature	23°C	Humidity	54%			
Test Engineer	Aric Li	Configurations	Draft n MCS0 20MHz Ch 40 Ant. A + Ant. C /			
	Alic Li	Cornigulations	Mode 1			

Horizontal

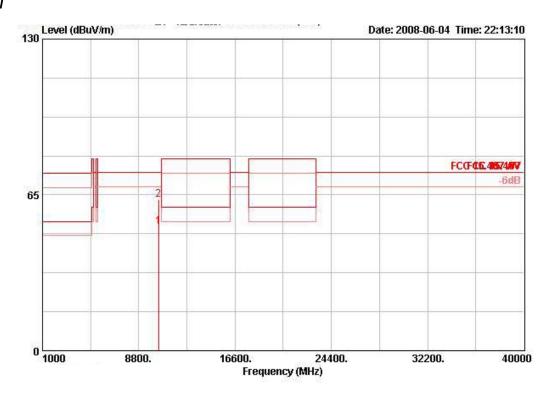


Freq	Level		Limit Line						Ant Pos		ol/Phase
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg	<u>2</u> %
10397.040	60.77	-13.53	74.30	50.40	39.82	5.24	34.69	PEAK	100	132 F	ORIZONTAL





Vertical



Freq	Level		Limit Line		Antenna Factor				Ant Pos	Table Pos	Pol/Phase
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	92	Cm.	deg	<u>i</u>
10404.520	63.20	-11.10	74.30	52.84	39.82	5.24	34.69	PEAK	100	109	VERTICAL

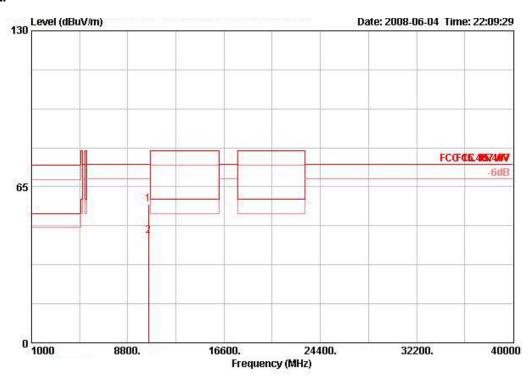
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Temperature	23°C	Humidity	54%			
Test Engineer	Aric Li	Configurations	Draft n MCS0 20MHz Ch 48 Ant. A + Ant. C			
	Aric Li	Cornigulations	/ Mode 1			

Horizontal

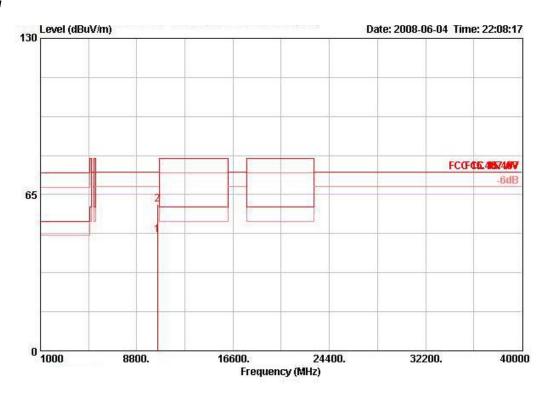


Freq	Level		Limit Line		Intenna Factor			Remark	Ant Pos	Table Pos Pol/Phase
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
10481.840	57.79	-16.51	74.30	47.18	39.97	5.26	34.62	PEAK	100	131 HORTZONTAL





Vertical



Freq	Level		Limit Line		Antenna Factor				Ant Pos	Table Pos	Pol/Phase
MHz	dBuV/m		dBuV/m	dBuV	10,000	dB	dB		cm.	deg	
10484.320	60.96	-13.34	74.30	50.35	39.97	5.26	34.62	PEAK	116	156	VERTICAL

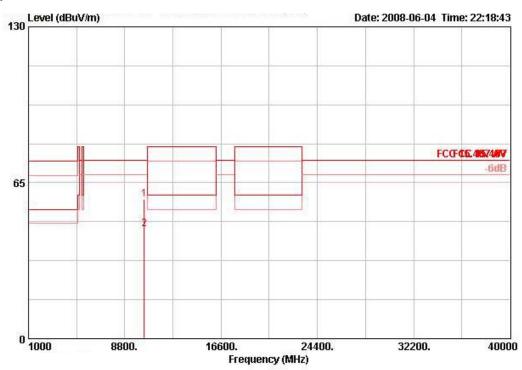
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Temperature	23 ℃	Humidity	54%			
Test Engineer	Aric Li	Configurations	Draft n MCS0 40MHz Ch 38 Ant. A + Ant. C			
	Aric Li	Configurations	/ Mode 1			

Horizontal

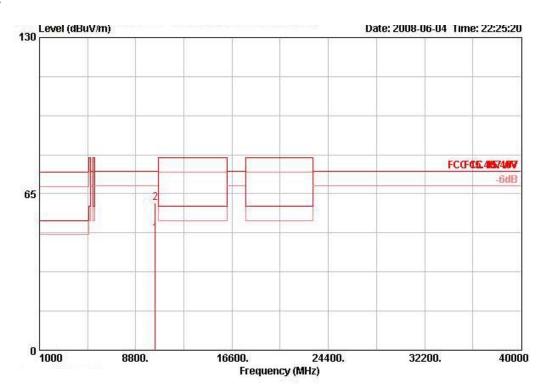


		Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table	
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos	Pol/Phase
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	y <u>c</u>		deg	27
10377 440	58 10	-16 20	74 30	47 79	39 79	5 24	34 79	DEAK	106	133	HODIZONIAL





Vertical



Freq	Level		Limit Line		Antenna Factor				Ant Pos	Table Pos	Pol/Phase
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	39	- Cm	deg	¥
10378.680	61.41	-12.89	74.30	51.10	39.79	5.24	34.72	PEAK	104	109	VERTICAL

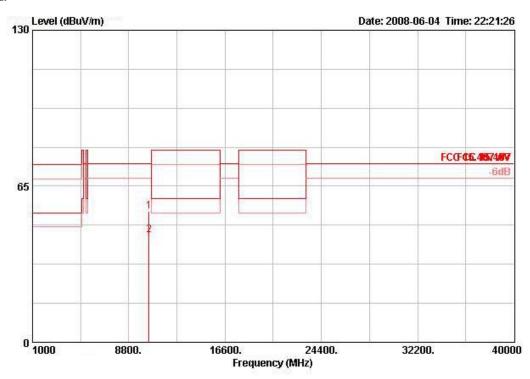
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Temperature	23°C	Humidity	54%
Tost Engineer	Aric Li	Configurations	Draft n MCS0 40MHz Ch 46 Ant. A + Ant. C
Test Engineer	AllC LI	Configurations	/ Mode 1

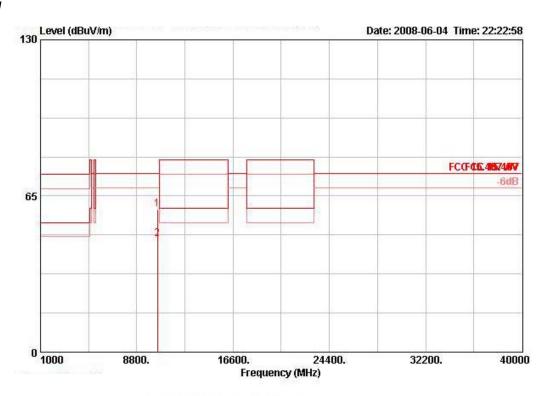
Horizontal



Freq	Level		Limit Line						Ant Pos	Table Pos	Pol/Phase
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
10451.920	54.42	-19.88	74.30	43.90	39.91	5.25	34.64	PEAK	102	131	HORIZONTAL

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Vertical



Freq	Level				Antenna Factor			Remark	Ant Pos	Table Pos	Pol/Phase
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	8	cm.	deg	\$ 25
10459.600	59.36	-14.94	74.30	48.84	39.91	5.25	34.64	PEAK	104	105	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.

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

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4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.470-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBuV/m at 3m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, 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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

4.7.2. 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)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1 MHz /1 MHz for Peak

4.7.3. Test Procedures

- The test procedure is the same as section 4.6.3, 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.

4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

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4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

Temperature	23°C	Humidity	54%
Test Engineer	Aric Li	Configurations	Draft n MCS0 20MHz Ch 36, 40 Ant. A + Ant. C
Test Date	Jun. 4, 2008		

Channel 36

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	Mtz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	2	cm	deg	<u> </u>
1 @	5150.000	57.61	-2.39	60.00	20.11	34.00	3.50	0.00	AVERAGE	105	1	VERTICAL
2 @	5150.000	69.19	-10.81	80.00	31.68	34.00	3.50	0.00	PEAK	105	1	VERTICAL
3 @	5174.800	109.90			72.32	34.07	3.52	0.00	AVERAGE	105	1	VERTICAL
4 @	5184.800	119.65			82.07	34.07	3.52	0.00	PEAK	105	1	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	<u> </u>	cm	deg	
1 @	5150.000	58.09	-1.91	60.00	20.59	34.00	3.50	0.00	AVERAGE	101	0	VERTICAL
2 @	5150.000	69.81	-10.19	80.00	32.30	34.00	3.50	0.00	PEAK	101	0	VERTICAL
3 @	5199.280	109.68			72.05	34.10	3.53	0.00	AVERAGE	101	0	VERTICAL
4 @	5204.320	118.46			80.83	34.10	3.53	0.00	PEAK	101	0	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Temperature	23°C	Humidity	54%
Test Engineer	Aric Li	Configurations	Draft n MCS0 40MHz Ch 38, 46 Ant. A + Ant. C
Test Date	Jun. 4, 2008		

Channel 38

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	SS	cm	deg
1 @	5150.000	58.64	-1.36	60.00	21.14	34.00	3.50	0.00	AVERAGE	103	4 VERTICAL
2 @	5150.000	70.35	-9.65	80.00	32.85	34.00	3.50	0.00	PEAK	103	4 VERTICAL
3 @	5184.800	113.90			76.32	34.07	3.52	0.00	PEAK	103	4 VERTICAL
4 @	5185.200	104.58			67.00	34.07	3.52	0.00	AVERAGE	103	4 VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Over Limit			Antenna Factor	***************************************	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBu∀	dB/m	dB	dB	<u> </u>	cm	deg	
1 @	5150.000	58.00	-2.00	60.00	20.50	34.00	3.50	0.00	AVERAGE	102	1	VERTICAL
2 @	5150.000	69.85	-10.15	80.00	32.35	34.00	3.50	0.00	PEAK	102	1	VERTICAL
3 @	5224.800	107.10			69.39	34.17	3.54	0.00	AVERAGE	102	1	VERTICAL
4 @	5240.400	115.88			78.17	34.17	3.54	0.00	PEAK	102	1	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Note:

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m)

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

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

4.8. Frequency Stability Measurement

4.8.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or ±20ppm (Draft n specification).

4.8.2. Measuring Instruments and Setting

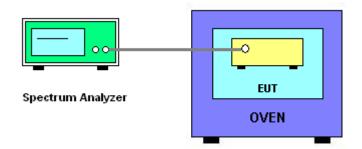
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser.
- 2. EUT have transmitted absence of modulation signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
- 4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
- 5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc \times 10⁶ ppm and the limit is less than \pm 20ppm (Draft n specification).
- 6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
- 7. Extreme temperature rule is -30°C~50°C.

4.8.4. Test Setup Layout



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4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)		
(V)	5200		
126.50	5200.0351		
110.00	5200.031		
93.50	5200.0157		
Max. Deviation (MHz)	0.035100		
Max. Deviation (ppm)	6.75		

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)				
(°C)	5200				
-30	5200.0512				
-20	5200.0412				
-10	5200.0315				
0	5200.0211				
10	5200.0101				
20	5200.0001				
30	5199.9981				
40	5199.9885				
50	5199.9648				
Max. Deviation (MHz)	0.051200				
Max. Deviation (ppm)	9.85				



4.9. Antenna Requirements

4.9.1. 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.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

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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 T400	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	Jun. 07, 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	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, 2007*	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	Mar. 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	Jun. 27, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jun. 27, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 27, 2008	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. 13, 2008	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 01, 2007	Conducted (TH01-HY)
RF CABLE-1 m	Jye Bao RG142 CB034-1m 20MHz ~ 70		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	Signal Generator R&S SN		100116	10MHz ~ 40GHz	Mar. 10, 2008	Conducted (TH01-HY)

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

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^{*} Calibration Interval of instruments listed above is two year.



6. TEST LOCATION

SHIJR	ADD	:	6FI., 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	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.			
	TEL	:	886-2-8227-2020			
	FAX	:	886-2-8227-2626			
NEIHU	ADD	:	4FI., 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.: 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

Accreditation Program for Designated Testing Laboratory for Commodities Inspection

Program

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.

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