

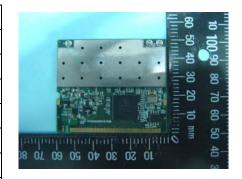
SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, TaoYuan Hsien, Taiwan, R.O.C. Ph: 886-3-327-3456 / FAX: 886-3-327-0973 / www.sporton.com.tw

FCC RADIO TEST REPORT

Applicant's company	Motorola, Inc.		
Applicant Address	One Motorola Plaza Holtsville, NY 11742 USA		
FCC ID	UZ7AP7131		
Manufacturer's company	Joy Technology(ShenZhen) Corporation		
Manufacturer Address	Hengkeng Ind., Shanpai, shangwu, Aiqun Rd., Shiyan Town, Shenzhen, 518108 ,China		

Product Name	11 a/b/g/n Access Point Module
Brand Name	Motorola
Model Name	AP-7131-MB82
Test Rule Part(s)	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Received Date	Feb. 15, 2008
Final Test Date	Apr. 2, 2008
Submission Type	Original Equipment



Statement

Test result included is only for the 802.11b/g part and 802.11a (5725 \sim 5850MHz) 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 C. 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:	May	22,	2008
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Report No.: FR821502AC

■ No additional attachment.

Additional attachment were issued as following record:

Attachment No.	Issue Date	Description



Certificate No.: CB9704041

CERTIFICATE OF COMPLIANCE

Product Name :

11 a/b/g/n Access Point Module

Brand Name :

Motorola

Model Name :

AP-7131-MB82

Applicant:

Motorola, Inc.

Test Rule Part(s) :

47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Feb. 15, 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 C					
Part	Rule Section	Result	Under Limit			
4.1	15.207	AC Power Line Conducted Emissions	Complies	12.50 dB		
4.2	15.247(b)(3)	Maximum Conducted Output Power	Complies	0.10 dB		
4.3	15.247(e)	Power Spectral Density	Complies	1.20 dB		
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-		
4.5	15.247(d)	Radiated Emissions	Complies	0.27 dB		
4.6	15.247(d)	Band Edge Emissions	Complies	0.03 dB		
4.7	15.203	Antenna Requirements	Complies	-		

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Conducted Output Power	±0.8dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
6dB Spectrum Bandwidth	±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℃	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 (3TX, 3RX)
Radio Type	Intentional Transceiver
Power Type	From Host System
Modulation	DSSS for IEEE 802.11b; OFDM for IEEE 802.11a/g
Data Modulation	DSSS (BPSK / QPSK / CCK); OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11); OFDM (6/9/12/18/24/36/48/54)
Frequency Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Channel Number	11b/g: 11 ; 11a: 5
Channel Band Width (99%)	11b: 15.54 MHz ; 11g: 16.44 MHz ; 11a: 18.42 MHz
Conducted Output Power	11b: 26.26 dBm; 11g: 27.45 dBm; 11a: 28.66 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

Antenna & Band width

Antenna	Three (TX)		
Band width Mode	20 MHz	40 MHz	
802.11a	V	Х	
802.11b	V	Х	
802.11g	V	X	

3.2. Accessories

N/A

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3.3. Table for Filed Antenna

For 2.4GHz Band

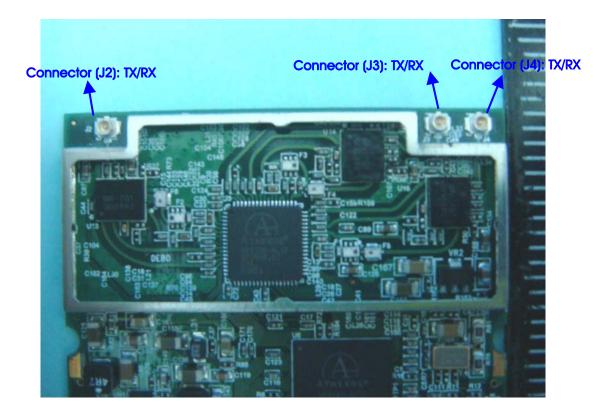
Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	SYMBOL	ML-2452-APA2-01R	Dipole Antenna	Reversed-SMA	3
2	SYMBOL	ML-2499-11PNA2-01	Panel Antenna	RP-BNC-Female	8.5
3	SYMBOL	ML-2499-HPA3-01	Dipole Antenna	RP-BNC-Female	3.3
4	SYMBOL	ML-2499-BYGA2-01	Yagi	N Type	13.9
5	SYMBOL	ML-2452-APA2-FAC	embedded	Reversed-SMA	2.5

For 5GHz Band

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	SYMBOL	ML-2452-APA2-01R	Dipole Antenna	Reversed-SMA	4
5	SYMBOL	ML-2452-APA2-FAC	embedded Antenna	Reversed-SMA	4.5
6	SYMBOL	ML-5299-WPNA1-01	Patch Antenna	Reversed-SMA	13
7	SYMBOL	ML-5299-HPA1-01	Omni Antenna	Reversed-SMA	5

Note: The EUT has four antennas.

Connector (J2) & Connector (J3) & Connector (J4) could Receiver / Transmitter simultaneously.



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3.4. Table for Carrier Frequencies

Frequency Allocation for 802.11b/g

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400~2483.5MHz	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
	3	2422 MHz	9	2452 MHz
	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz		

Frequency Allocation for 802.11a

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5725~5850 MHz	149	5745 MHz	161	5805 MHz
	153	5765 MHz	165	5825 MHz
	157	5785 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	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	Auto	-	1, 2, 3, 4, 5,
				6, 7
Max. Peak Conducted Output Power	11b/BPSK	1 Mbps	1/6/11	1, 2, 3, 4, 5
Power Spectral Density	11g/BPSK	6 Mbps	1/6/11	1, 2, 3, 4, 5
6dB Spectrum Bandwidth	11a/BPSK	6 Mbps	149/157/165	1, 5, 6, 7
Radiated Emissions Below 1GHz	Normal Link	Auto	-	-
Radiated Emissions Above 1GHz	11b/BPSK _V	1 Mbps	1/6/11	1, 2, 3, 4, 5
	11g/BPSK	6 Mbps	1/6/11	1, 2, 3, 4, 5
	11a/BPSK	6 Mbps	149/157/165	1, 5, 6, 7
Band Edge Emissions	11b/BPSK	1 Mbps	1/11	1, 2, 3, 4, 5
	11g/BPSK	6 Mbps	1/11	1, 2, 3, 4, 5
	11a/BPSK	6 Mbps	149/165	1, 5, 6, 7

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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	-	-	-
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	Model	FCC ID
Notebook	DELL	D400	E2K24GBRL
Notebook	DELL	D505	E2K24GBRL
Modem	ACEEX	DM1414	IFAXDM1414
Mouse	QSKY	Lx-619B	DOC
Printer	EPSON	LQ-300+	DOC

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. For Antenna 1

Power Parameters of IEEE 802.11b/g

Test Software Version	ART			
Frequency	2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11b	17.5	19	18.5	
IEEE 802.11g	15	19	15	

Power Parameters of IEEE 802.11a

Test Software Version	ART			
Frequency	5745 MHz	5785 MHz	5825 MHz	
IEEE 802.11a	21.5	22	22	

For Antenna 2

Power Parameters of IEEE 802.11b/g

Test Software Version	ART			
Frequency	2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11b	13.5	18	16	
IEEE 802.11g	10.5	12.5	11.5	

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For Antenna 3

Power Parameters of IEEE 802.11b/g

Test Software Version	ART			
Frequency	2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11b	16	20	17.5	
IEEE 802.11g	12.5	17	13	

For Antenna 4

Power Parameters of IEEE 802.11b/g

Test Software Version	ART			
Frequency	2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11b	15.5	15.5	16	
IEEE 802.11g	14	14.5	14.5	

For Antenna 5

Power Parameters of IEEE 802.11b/g

Test Software Version	ART			
Frequency	2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11b	16	18	17	
IEEE 802.11g	14	20	14.5	

Power Parameters of IEEE 802.11a

Test Software Version	ART			
Frequency	5745 MHz	5785 MHz	5825 MHz	
IEEE 802.11a	21	21	21	

For Antenna 6

Power Parameters of IEEE 802.11a

Test Software Version	ART			
Frequency	5745 MHz	5785 MHz	5825 MHz	
IEEE 802.11a	17.5	17.5	19	

For Antenna 7

Power Parameters of IEEE 802.11a

Test Software Version	ART						
Frequency	5745 MHz	5785 MHz	5825 MHz				
IEEE 802.11a	21.5	21	20				

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An executive program, EMCTEST.EXE under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The program was executed as follows:

- a. Turn on the power of all equipment.
- b. The NB sends "H" messages to the panel, and the panel displays "H" patterns on the screen.
- c. The NB sends "H" messages to the printer, then the printer prints them on the paper.
- d. The NB sends "H" messages to the modem.
- e. Repeat the steps from b to d.

At the same time, "ART" was executed to control the EUT continuously transmit RF signal.

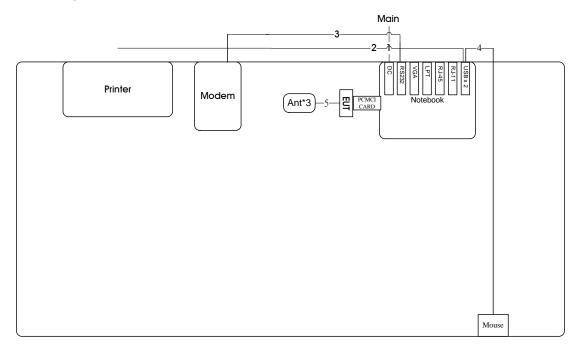


3.9. Test Configurations

3.9.1. Radiation Emissions Test Configuration

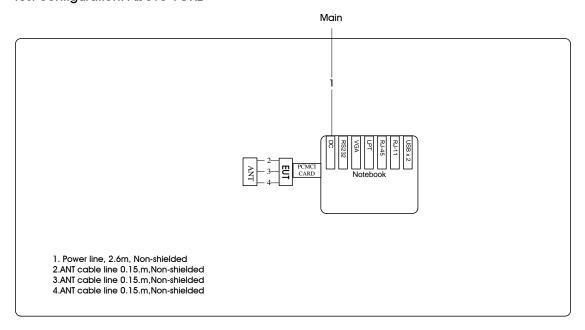
Antenna 1

Test configuration: $9kHz \sim 1GHz$



AP

Test configuration: Above 1GHz



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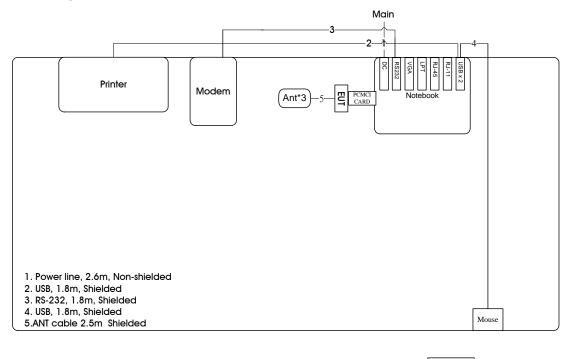
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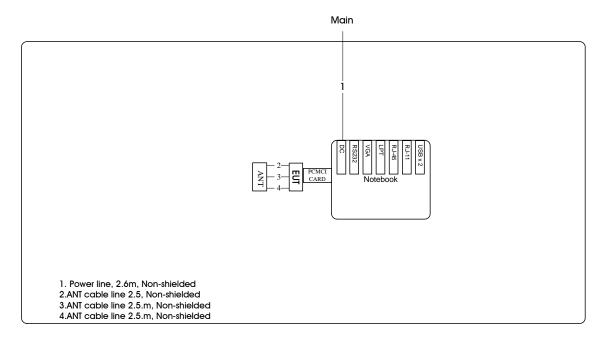
Antenna 2

Test configuration: $9kHz \sim 1GHz$



AP

Test configuration: Above 1GHz



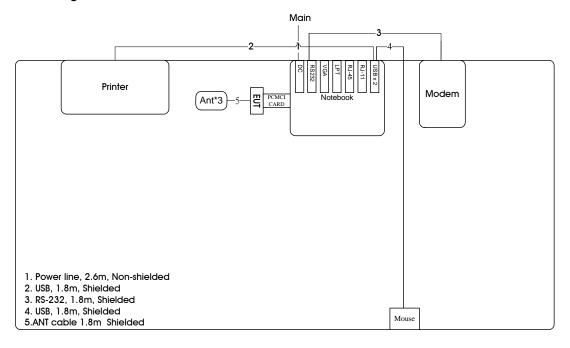
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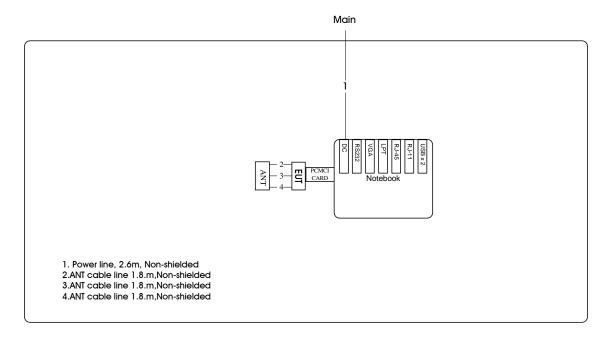
Antenna 3

Test configuration: $9kHz \sim 1GHz$



AP

Test configuration: Above 1GHz



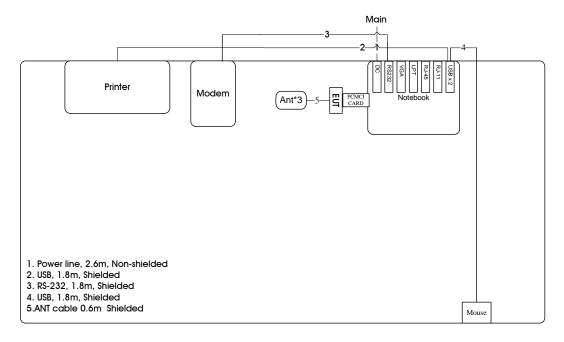
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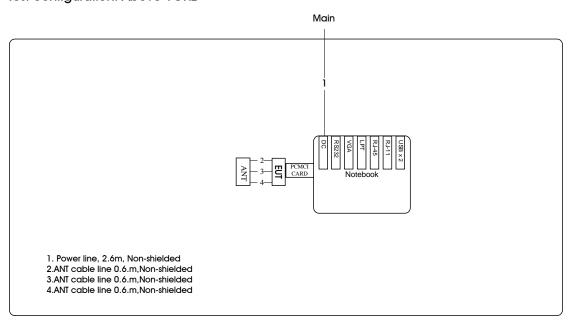


Test configuration: $9kHz \sim 1GHz$



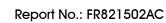
AP

Test configuration: Above 1GHz



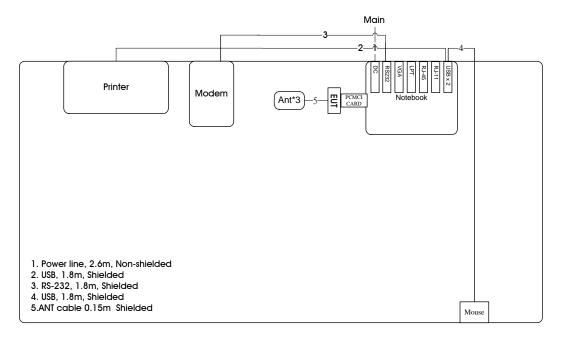
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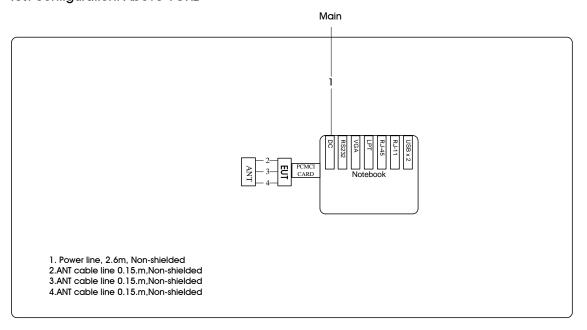


Test configuration: $9kHz \sim 1GHz$



AP

Test configuration: Above 1GHz



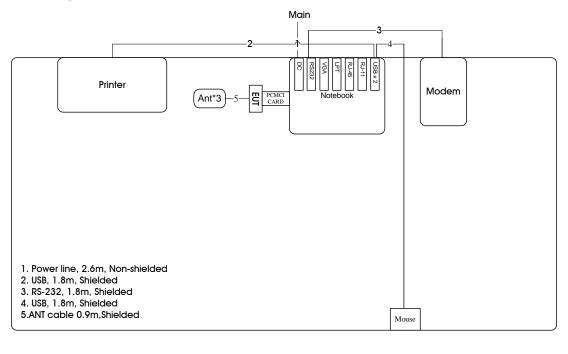
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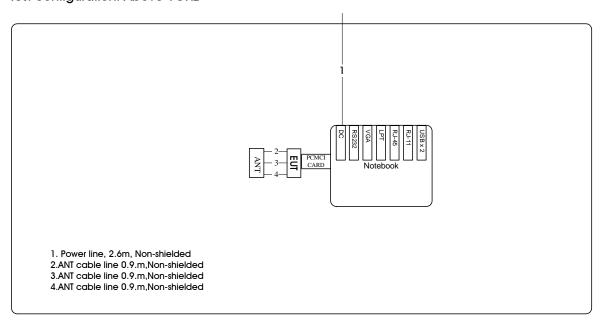


Test configuration: $9kHz \sim 1GHz$



AP

Test configuration: Above 1GHz



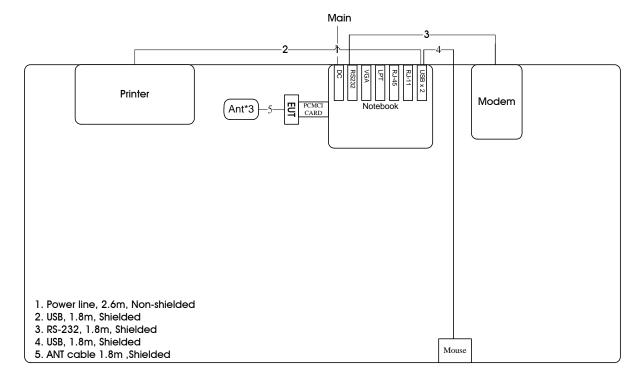
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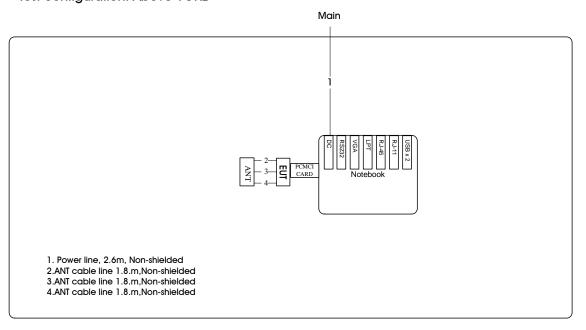
Antenna 7

Test configuration: $9kHz \sim 1GHz$



AP

Test configuration: Above 1GHz



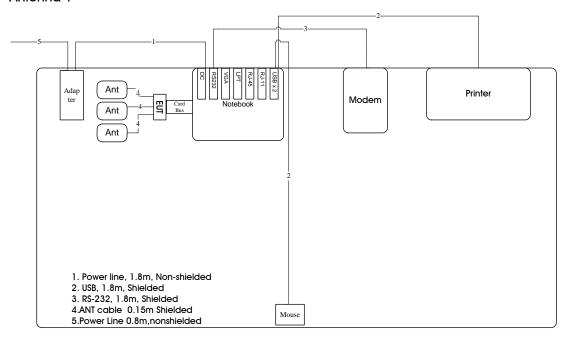
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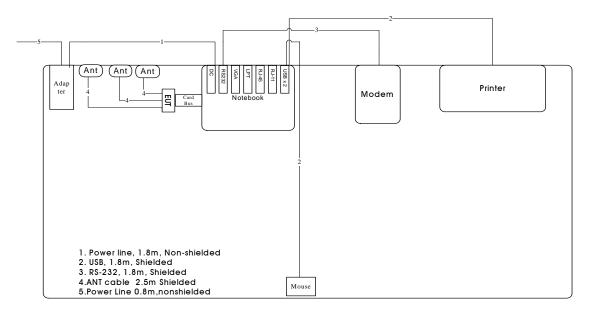
3.9.2. AC Power Line Conduction Emissions Test Configuration

Antenna 1



АР

Antenna 2



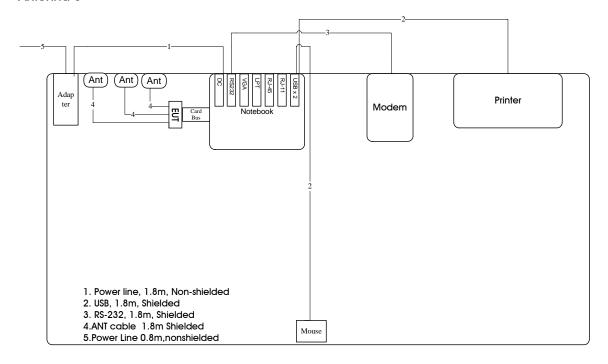
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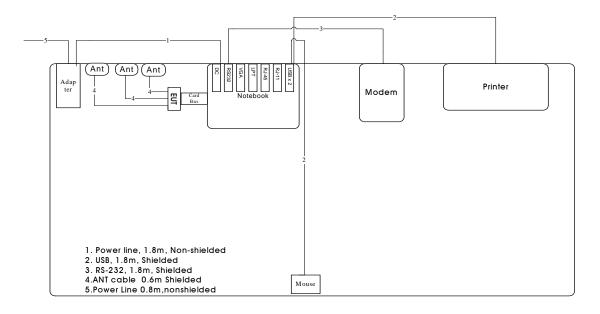






АР

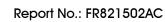
Antenna 4



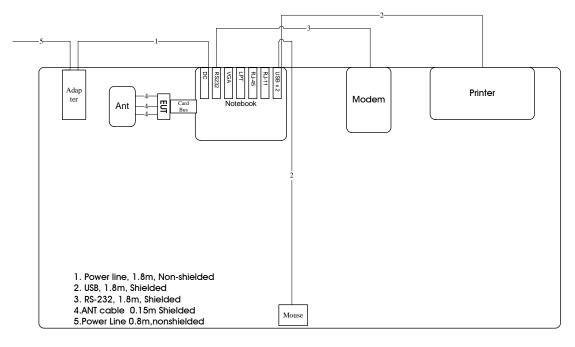
АР

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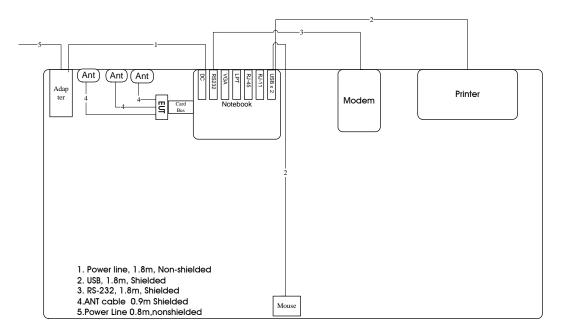






АР

Antenna 6



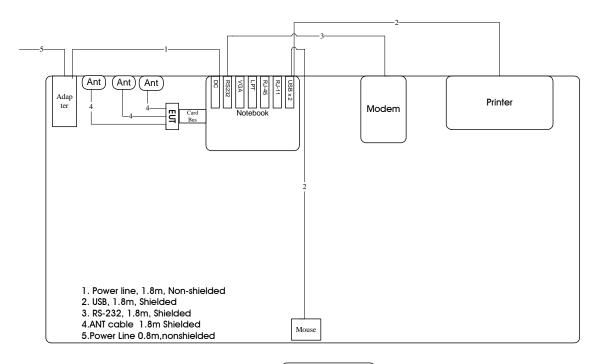
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Antenna 7



AP

4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For this product which is designed to be connected 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

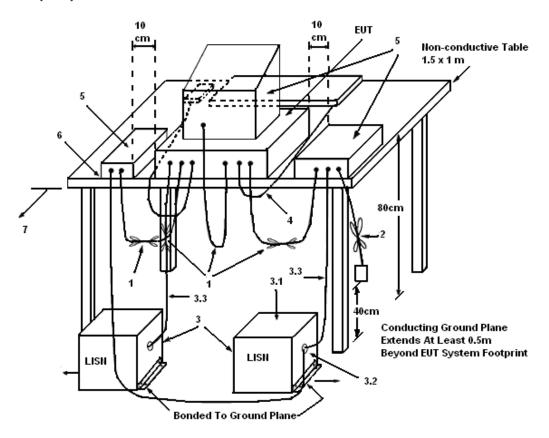
4.1.3. Test Procedures

- 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).
- 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.

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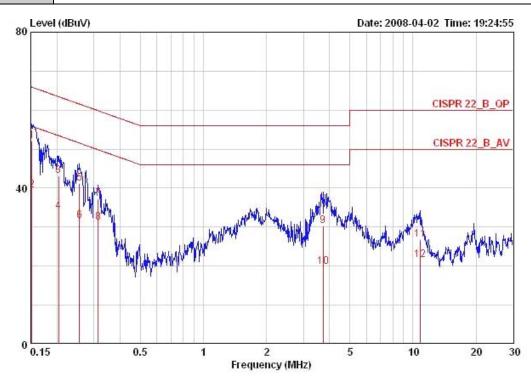


4.1.6. EUT Operation during Test

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

4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Line
Configuration	Antenna 1		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	- dB	dBuV	dBuV	- dB	dB	1
1	0.15160	52.13	-13.78	65.91	51.73	0.20	0.20	QP
2	0.15160	39.50	-16.41	55.91	39.10	0.20	0.20	AVERAGE
3	0.20396	43.15	-20.30	63.45	42.85	0.10	0.20	QP
4	0.20396	33.91	-19.54	53.45	33.61	0.10	0.20	AVERAGE
5	0.25615	41.14	-20.42	61.56	40.84	0.10	0.20	QP
6	0.25615	31.69	-19.87	51.56	31.39	0.10	0.20	AVERAGE
7	0.31495	37.28	-22.56	59.84	36.98	0.10	0.20	QP
8	0.31495	31.09	-18.75	49.84	30.79	0.10	0.20	AVERAGE
9	3.720	30.26	-25.74	56.00	29.96	0.00	0.30	QP
10	3.720	19.94	-26.06	46.00	19.64	0.00	0.30	AVERAGE
11	10.847	26.82	-33.18	60.00	26.32	0.10	0.40	QP
12	10.847	21.61	-28.39	50.00	21.11	0.10	0.40	AVERAGE

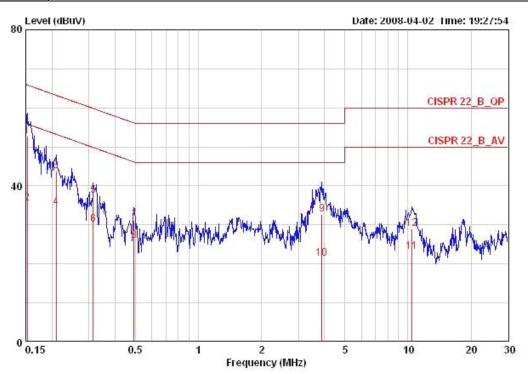
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Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Neutral
Configuration	Antenna 1		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	19
1 @	0.15240	52.77	-13.10	65.87	52.27	0.30	0.20	QP
2	0.15240	35.45	-20.42	55.87	34.95	0.30	0.20	AVERAGE
3	0.20944	43.71	-19.52	63.23	43.31	0.20	0.20	QP
4	0.20944	34.46	-18.77	53.23	34.06	0.20	0.20	AVERAGE
4 5	0.31495	37.45	-22.39	59.84	37.12	0.13	0.20	QP
6	0.31495	30.13	-19.71	49.84	29.80	0.13	0.20	AVERAGE
7	0.49150	31.09	-25.06	56.14	30.86	0.10	0.13	QP
8	0.49150	25.87	-20.28	46.14	25.64	0.10	0.13	AVERAGE
9	3.881	32.69	-23.31	56.00	32.29	0.10	0.30	QP
10	3.881	21.32	-24.68	46.00	20.92	0.10	0.30	AVERAGE
11	10.397	23.08	-26.92	50.00	22.60	0.10	0.38	AVERAGE
12	10.397	29.10	-30.90	60.00	28.62	0.10	0.38	QP

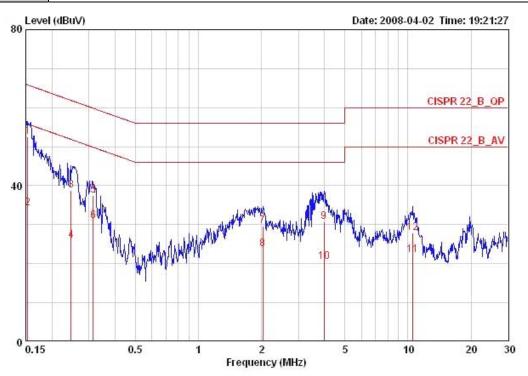
Note:

Level = Read Level + LISN Factor + Cable Loss.





Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Line
Configuration	Antenna 2		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15321	52.60	-13.22	65.82	52.20	0.20	0.20	QP
2	0.15321	34.21	-21.61	55.82	33.81	0.20	0.20	AVERAGE
3	0.24682	38.77	-23.09	61.86	38.47	0.10	0.20	QP
4	0.24682	26.01	-25.85	51.86	25.71	0.10	0.20	AVERAGE
5	0.31495	37.40	-22.44	59.84	37.10	0.10	0.20	QP
6	0.31495	30.87	-18.97	49.84	30.57	0.10	0.20	AVERAGE
7	2.033	29.66	-26.34	56.00	29.46	0.00	0.20	QP
8	2.033	23.73	-22.27	46.00	23.53	0.00	0.20	AVERAGE
9	3.985	30.81	-25.19	56.00	30.51	0.00	0.30	QP
10	3.985	20.45	-25.55	46.00	20.15	0.00	0.30	AVERAGE
11	10.564	22.19	-27.81	50.00	21.69	0.10	0.40	AVERAGE
12	10.564	27.96	-32.04	60.00	27.46	0.10	0.40	QP

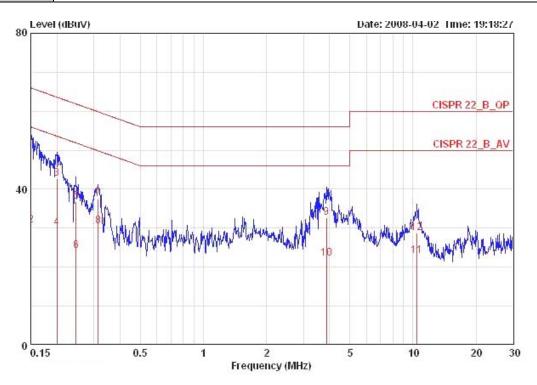
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Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Neutral
Configuration	Antenna 2		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	(
1	0.15000	51.93	-14.07	66.00	51.43	0.30	0.20	QP
2	0.15000	30.80	-25.20	56.00	30.30	0.30	0.20	AVERAGE
3	0.19969	42.66	-20.96	63.62	42.26	0.20	0.20	QP
4	0.19969	29.99	-23.63	53.62	29.59	0.20	0.20	AVERAGE
5	0.24682	36.77	-25.09	61.86	36.39	0.18	0.20	QP
6	0.24682	24.12	-27.74	51.86	23.74	0.18	0.20	AVERAGE
7	0.31495	37.47	-22.37	59.84	37.14	0.13	0.20	QP
8	0.31495	30.43	-19.41	49.84	30.10	0.13	0.20	AVERAGE
9	3.860	32.68	-23.32	56.00	32.28	0.10	0.30	QP
10	3.860	22.22	-23.78	46.00	21.82	0.10	0.30	AVERAGE
11	10.452	22.87	-27.13	50.00	22.38	0.10	0.39	AVERAGE
12	10.452	28.75	-31.25	60.00	28.26	0.10	0.39	QP

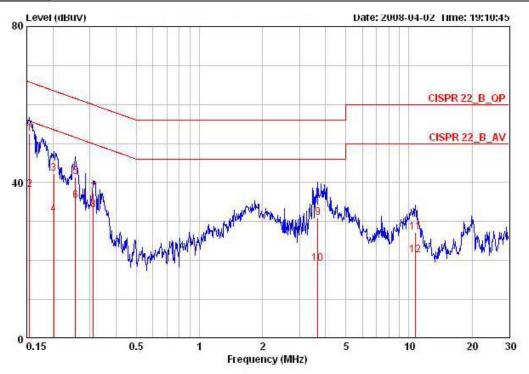
Note:

Level = Read Level + LISN Factor + Cable Loss.





Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Line
Configuration	Antenna 3		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	жи	dBuV	dB	dBuV	dBuV	dB	dB	-
1	0.15485	52.60	-13.14	65.74	52.20	0.20	0.20	QP
2	0.15485	38.10	-17.64	55.74	37.70	0.20	0.20	AVERAGE
2 3 4	0.20181	42.20	-21.34	63.54	41.90	0.10	0.20	QP
	0.20181	31.92	-21.62	53.54	31.62	0.10	0.20	AVERAGE
5 6	0.25615	41.34	-20.22	61.56	41.04	0.10	0.20	QP
6	0.25615	35.31	-16.25	51.56	35.01	0.10	0.20	AVERAGE
7	0.31163	37.36	-22.57	59.93	37.06	0.10	0.20	QP
8	0.31163	32.99	-16.94	49.93	32.69	0.10	0.20	AVERAGE
8 9	3.681	31.02	-24.98	56.00	30.72	0.00	0.30	QP
10	3.681	19.29	-26.71	46.00	18.99	0.00	0.30	AVERAGE
11	10.733	27.23	-32.77	60.00	26.73	0.10	0.40	QP
12	10.733	21.35	-28.65	50.00	20.85	0.10	0.40	AVERAGE

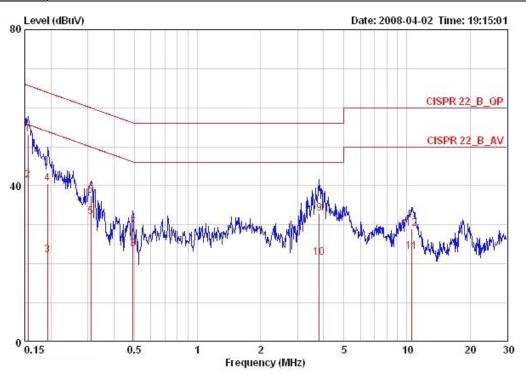
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Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Neutral
Configuration	Antenna 3		



	Freq		Over Limit	Limit Line		LISN Factor	Cable Loss dB	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB		R - H
1 @	0.15567	53.19	-12.50	65.69	52.69	0.30	0.20	QP
2	0.15567	41.36	-14.33	55.69	40.86	0.30	0.20	AVERAGE
3	0.19242	22.21	-31.72	53.93	21.76	0.25	0.20	AVERAGE
4	0.19242	40.56	-23.37	63.93	40.11	0.25	0.20	QP
5	0.30998	32.05	-17.92	49.97	31.70	0.15	0.20	AVERAGE
4 5 6 7 8 9	0.30998	37.40	-22.57	59.97	37.05	0.15	0.20	QP
7	0.49150	29.17	-26.98	56.14	28.94	0.10	0.13	QP
8	0.49150	23.66	-22.49	46.14	23.43	0.10	0.13	AVERAGE
9	3.820	32.90	-23.10	56.00	32.50	0.10	0.30	QP
10	3.820	21.51	-24.49	46.00	21.11	0.10	0.30	AVERAGE
11	10.508	23.02	-26.98	50.00	22.52	0.10	0.40	AVERAGE
12	10.508	28.95	-31.05	60.00	28.45	0.10	0.40	QP

Note:

Level = Read Level + LISN Factor + Cable Loss.





Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Line
Configuration	Antenna 4		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	· · · · · · · ·
1	0.15485	52.50	-13.24	65.74	52.10	0.20	0.20	QP
2	0.15485	40.79	-14.95	55.74	40.39	0.20	0.20	AVERAGE
3	0.19654	39.53	-24.23	63.76	39.23	0.10	0.20	QP
4	0.19654	24.51	-29.25	53.76	24.21	0.10	0.20	AVERAGE
5	0.25345	40.54	-21.10	61.64	40.24	0.10	0.20	QP
6	0.25345	32.97	-18.67	51.64	32.67	0.10	0.20	AVERAGE
7	0.31495	37.38	-22.46	59.84	37.08	0.10	0.20	QP
8	0.31495	31.03	-18.81	49.84	30.73	0.10	0.20	AVERAGE
9	3.860	32.40	-23.60	56.00	32.10	0.00	0.30	QP
10	3.860	21.67	-24.33	46.00	21.37	0.00	0.30	AVERAGE
11	10.564	27.92	-32.08	60.00	27.42	0.10	0.40	QP
12	10.564	22.24	-27.76	50.00	21.74	0.10	0.40	AVERAGE

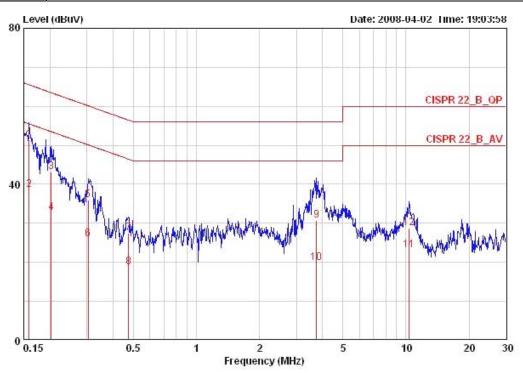
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Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Neutral
Configuration	Antenna 4		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV		dBuV	dBuV	dB	- dB	:
1	0.15900	51.37	-14.15	65.52	50.87	0.30	0.20	QP
2	0.15900	38.58	-16.94	55.52	38.08	0.30	0.20	AVERAGE
3	0.20289	43.23	-20.26	63.49	42.83	0.20	0.20	QP
4	0.20289	32.68	-20.81	53.49	32.28	0.20	0.20	AVERAGE
4 5	0.30509	36.07	-24.03	60.10	35.72	0.15	0.20	QP
6	0.30509	26.01	-24.09	50.10	25.66	0.15	0.20	AVERAGE
7	0.47360	27.44	-29.02	56.45	27.16	0.10	0.18	QP
8	0.47360	18.70	-27.76	46.45	18.42	0.10	0.18	AVERAGE
9	3.740	30.78	-25.22	56.00	30.38	0.10	0.30	QP
10	3.740	19.92	-26.08	46.00	19.52	0.10	0.30	AVERAGE
11	10.342	23.07	-26.93	50.00	22.60	0.10	0.37	AVERAGE
12	10.342	28.75	-31.25	60.00	28.28	0.10	0.37	OP

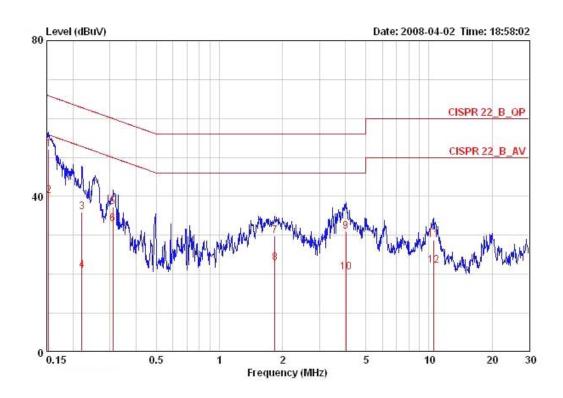
Note:

Level = Read Level + LISN Factor + Cable Loss.





Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Line
Configuration	Antenna 5		



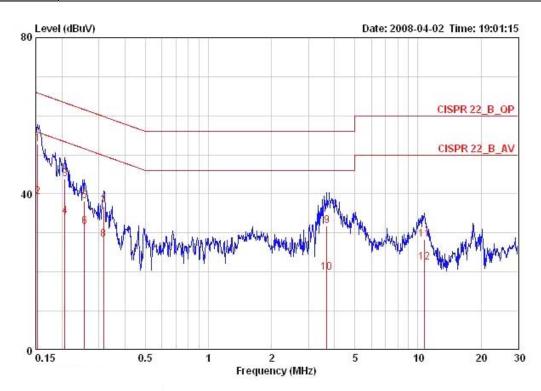
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	9
1	0.15321	52.12	-13.70	65.82	51.72	0.20	0.20	QP
2	0.15321	40.19	-15.63	55.82	39.79	0.20	0.20	AVERAGE
3	0.22083	36.04	-26.75	62.79	35.74	0.10	0.20	QP
4	0.22083	20.88	-31.91	52.79	20.58	0.10	0.20	AVERAGE
5	0.30998	37.25	-22.72	59.97	36.95	0.10	0.20	QP
6	0.30998	32.90	-17.07	49.97	32.60	0.10	0.20	AVERAGE
7	1.839	29.86	-26.14	56.00	29.69	0.00	0.17	QP
8	1.839	22.96	-23.04	46.00	22.79	0.00	0.17	AVERAGE
9	4.006	30.90	-25.10	56.00	30.60	0.00	0.30	QP
10	4.006	20.40	-25.60	46.00	20.10	0.00	0.30	AVERAGE
11	10.564	28.67	-31.33	60.00	28.17	0.10	0.40	QP
12	10.564	22.30	-27.70	50.00	21.80	0.10	0.40	AVERAGE

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Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Neutral
Configuration	Antenna 5		



			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	-
1 @	0.15321	52.82	-13.00	65.82	52.32	0.30	0.20	QP
2	0.15321	39.24	-16.58	55.82	38.74	0.30	0.20	AVERAGE
3	0.20614	43.81	-19.55	63.36	43.41	0.20	0.20	QP
4 5	0.20614	34.31	-19.05	53.36	33.91	0.20	0.20	AVERAGE
5	0.25615	38.12	-23.44	61.56	37.75	0.17	0.20	QP
6	0.25615	31.71	-19.85	51.56	31.34	0.17	0.20	AVERAGE
7	0.31662	36.74	-23.05	59.80	36.41	0.13	0.20	QP
8	0.31662	28.37	-21.42	49.80	28.04	0.13	0.20	AVERAGE
9	3.681	31.77	-24.23	56.00	31.37	0.10	0.30	QP
10	3.681	19.89	-26.11	46.00	19.49	0.10	0.30	AVERAGE
11	10.733	28.23	-31.77	60.00	27.73	0.10	0.40	QP
12	10.733	22.45	-27.55	50.00	21.95	0.10	0.40	AVERAGE

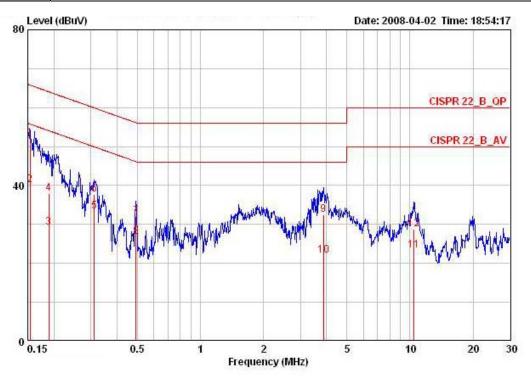
Note:

Level = Read Level + LISN Factor + Cable Loss.





Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Line
Configuration	Antenna 6		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MX	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15403	52.10	-13.68	65.78	51.70	0.20	0.20	QP
2	0.15403	40.19	-15.59	55.78	39.79	0.20	0.20	AVERAGE
3	0.18938	29.12	-24.94	54.06	28.77	0.15	0.20	AVERAGE
4	0.18938	37.97	-26.09	64.06	37.62	0.15	0.20	QP
5	0.31163	33.42	-16.51	49.93	33.12	0.10	0.20	AVERAGE
6	0.31163	37.74	-22.19	59.93	37.44	0.10	0.20	QP
7	0.49150	31.94	-24.20	56.14	31.73	0.09	0.13	QP
8	0.49150	26.78	-19.36	46.14	26.57	0.09	0.13	AVERAGE
9	3.860	32.46	-23.54	56.00	32.16	0.00	0.30	QP
10	3.860	21.96	-24.04	46.00	21.66	0.00	0.30	AVERAGE
11	10.397	23.25	-26.75	50.00	22.77	0.10	0.38	AVERAGE
12	10.397	28.88	-31.12	60.00	28.40	0.10	0.38	QP

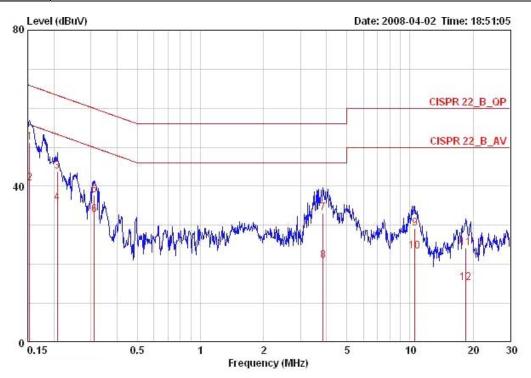
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Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Neutral
Configuration	Antenna 6		



	Freq	Level	Over Limit	Limit Line dBuV	Read Level	Factor	Cable Loss dB	Remark
	MHz							
1	0.15321	51.27	-14.55	65.82	50.77	0.30	0.20	QP
2	0.15321	40.82	-15.00	55.82	40.32	0.30	0.20	AVERAGE
3	0.20723	43.81	-19.51	63.32	43.41	0.20	0.20	QP
4	0.20723	35.82	-17.50	53.32	35.42	0.20	0.20	AVERAGE
5	0.31163	37.73	-22.20	59.93	37.38	0.15	0.20	QP
6	0.31163	32.77	-17.16	49.93	32.42	0.15	0.20	AVERAGE
7	3.840	33.09	-22.91	56.00	32.69	0.10	0.30	QP
8	3.840	20.99	-25.01	46.00	20.59	0.10	0.30	AVERAGE
9	10.564	29.27	-30.73	60.00	28.77	0.10	0.40	QP
10	10.564	23.28	-26.72	50.00	22.78	0.10	0.40	AVERAGE
11	18.524	24.20	-35.80	60.00	23.60	0.10	0.50	QP
12	18.524	15.31	-34.69	50.00	14.71	0.10	0.50	AVERAGE

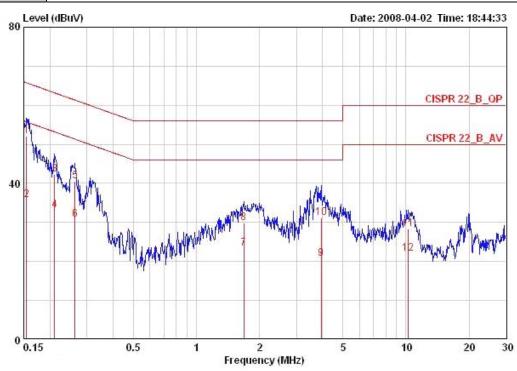
Note:

Level = Read Level + LISN Factor + Cable Loss.





Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Line
Configuration	Antenna 7		



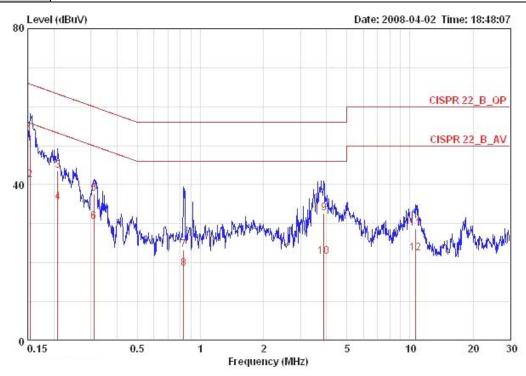
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15485	52.18	-13.56	65.74	51.78	0.20	0.20	QP
2	0.15485	35.66	-20.08	55.74	35.26	0.20	0.20	AVERAGE
3	0.21055	42.30	-20.88	63.18	42.00	0.10	0.20	QP
4	0.21055	33.05	-20.13	53.18	32.75	0.10	0.20	AVERAGE
5	0.26303	40.46	-20.88	61.34	40.16	0.10	0.20	QP
6	0.26303	30.64	-20.70	51.34	30.34	0.10	0.20	AVERAGE
7	1.680	23.33	-22.67	46.00	23.19	0.00	0.14	AVERAGE
8	1.680	29.93	-26.07	56.00	29.79	0.00	0.14	QP
9	3.943	20.76	-25.24	46.00	20.46	0.00	0.30	AVERAGE
10	3.943	31.19	-24.81	56.00	30.89	0.00	0.30	QP
11	10.233	28.23	-31.77	60.00	27.79	0.10	0.34	QP
12	10.233	22.02	-27.98	50.00	21.58	0.10	0.34	AVERAGE

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Temperature	25℃	Humidity	43%
Test Engineer	Cloud Peng	Phase	Neutral
Configuration	Antenna 7		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 @	0.15403	52.72	-13.06	65.78	52.22	0.30	0.20	QP
2	0.15403	41.17	-14.61	55.78	40.67	0.30	0.20	AVERAGE
3	0.20833	43.59	-19.68	63.27	43.19	0.20	0.20	QP
4	0.20833	35.61	-17.66	53.27	35.21	0.20	0.20	AVERAGE
5	0.30998	37.64	-22.33	59.97	37.29	0.15	0.20	QP
6	0.30998	30.54	-19.43	49.97	30.19	0.15	0.20	AVERAGE
7	0.83047	23.42	-32.58	56.00	23.12	0.10	0.20	QP
8	0.83047	18.61	-27.39	46.00	18.31	0.10	0.20	AVERAGE
9	3.881	32.63	-23.37	56.00	32.23	0.10	0.30	QP
10	3.881	21.58	-24.42	46.00	21.18	0.10	0.30	AVERAGE
11	10.676	28.88	-31.12	60.00	28.38	0.10	0.40	QP
12	10.676	22.49	-27.51	50.00	21.99	0.10	0.40	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss.

4.2. Maximum Conducted Output Power Measurement

4.2.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi. Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

4.2.2. Measuring Instruments and Setting

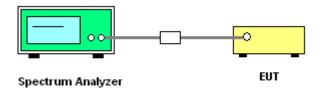
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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

4.2.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- Test was performed in accordance with Measurement of Digital Transmission Systems Operating under Section 15.247 March 23, 2005.
- 3. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

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4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.2.7. Test Result of Maximum Conducted Output Power

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11a/b/g / Antenna 1

Configuration IEEE 802.11b Antenna 1-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.72	30.00	Complies
6	2437 MHz	17.84	30.00	Complies
11	2462 MHz	16.84	30.00	Complies

Configuration IEEE 802.11b Antenna 1-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.46	30.00	Complies
6	2437 MHz	20.48	30.00	Complies
11	2462 MHz	18.50	30.00	Complies

Configuration IEEE 802.11b Antenna 1-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.85	30.00	Complies
6	2437 MHz	20.11	30.00	Complies
11	2462 MHz	18.98	30.00	Complies

Configuration IEEE 802.11b Antenna 1-1+Antenna 1-2+Antenna 1-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.93	30.00	Complies
6	2437 MHz	24.39	30.00	Complies
11	2462 MHz	22.97	30.00	Complies

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Configuration IEEE 802.11g Antenna 1-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.35	30.00	Complies
6	2437 MHz	18.94	30.00	Complies
11	2462 MHz	14.72	30.00	Complies

Configuration IEEE 802.11g Antenna 1-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.54	30.00	Complies
6	2437 MHz	20.99	30.00	Complies
11	2462 MHz	16.27	30.00	Complies

Configuration IEEE 802.11g Antenna 1-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.35	30.00	Complies
6	2437 MHz	20.74	30.00	Complies
11	2462 MHz	15.89	30.00	Complies

Configuration IEEE 802.11g Antenna 1-1+Antenna 1-2+Antenna 1-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.88	30.00	Complies
6	2437 MHz	25.09	30.00	Complies
11	2462 MHz	20.45	30.00	Complies

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Configuration IEEE 802.11a Antenna 1-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.33	30.00	Complies
157	5785 MHz	21.98	30.00	Complies
165	5825 MHz	22.19	30.00	Complies

Configuration IEEE 802.11a Antenna 1-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.98	30.00	Complies
157	5785 MHz	23.07	30.00	Complies
165	5825 MHz	22.86	30.00	Complies

Configuration IEEE 802.11a Antenna 1-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.29	30.00	Complies
157	5785 MHz	22.90	30.00	Complies
165	5825 MHz	22.77	30.00	Complies

Configuration IEEE 802.11a Antenna 1-1+Antenna 1-2+Antenna 1-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	28.66	30.00	Complies
157	5785 MHz	27.45	30.00	Complies
165	5825 MHz	27.39	30.00	Complies

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Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b/g / Antenna 2

Configuration IEEE 802.11b Antenna 2-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.62	27.50	Complies
6	2437 MHz	18.22	27.50	Complies
11	2462 MHz	15.66	27.50	Complies

Configuration IEEE 802.11b Antenna 2-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.82	27.50	Complies
6	2437 MHz	20.16	27.50	Complies
11	2462 MHz	17.44	27.50	Complies

Configuration IEEE 802.11b Antenna 2-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.28	27.50	Complies
6	2437 MHz	21.04	27.50	Complies
11	2462 MHz	17.25	27.50	Complies

Configuration IEEE 802.11b Antenna 2-1+Antenna 2-2+Antenna 2-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.81	27.50	Complies
6	2437 MHz	24.73	27.50	Complies
11	2462 MHz	21.62	27.50	Complies

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Configuration IEEE 802.11g Antenna 2-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	12.68	27.50	Complies
6	2437 MHz	14.44	27.50	Complies
11	2462 MHz	12.55	27.50	Complies

Configuration IEEE 802.11g Antenna 2-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.61	27.50	Complies
6	2437 MHz	15.44	27.50	Complies
11	2462 MHz	13.84	27.50	Complies

Configuration IEEE 802.11g Antenna 2-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.85	27.50	Complies
6	2437 MHz	15.28	27.50	Complies
11	2462 MHz	13.74	27.50	Complies

Configuration IEEE 802.11g Antenna 2-1+Antenna 2-2+Antenna 2-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.18	27.50	Complies
6	2437 MHz	19.85	27.50	Complies
11	2462 MHz	18.19	27.50	Complies

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Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b/g / Antenna 3

Configuration IEEE 802.11b Antenna 3-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.14	30.00	Complies
6	2437 MHz	19.86	30.00	Complies
11	2462 MHz	16.84	30.00	Complies

Configuration IEEE 802.11b Antenna 3-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.06	30.00	Complies
6	2437 MHz	22.10	30.00	Complies
11	2462 MHz	18.97	30.00	Complies

Configuration IEEE 802.11b Antenna 3-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.08	30.00	Complies
6	2437 MHz	22.13	30.00	Complies
11	2462 MHz	18.66	30.00	Complies

Configuration IEEE 802.11b Antenna 3-1+Antenna 3-2+Antenna 3-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.38	30.00	Complies
6	2437 MHz	26.26	30.00	Complies
11	2462 MHz	23.02	30.00	Complies

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Configuration IEEE 802.11g Antenna 3-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.06	30.00	Complies
6	2437 MHz	18.43	30.00	Complies
11	2462 MHz	13.99	30.00	Complies

Configuration IEEE 802.11g Antenna 3-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.57	30.00	Complies
6	2437 MHz	20.05	30.00	Complies
11	2462 MHz	15.37	30.00	Complies

Configuration IEEE 802.11g Antenna 3-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.33	30.00	Complies
6	2437 MHz	20.18	30.00	Complies
11	2462 MHz	15.39	30.00	Complies

Configuration IEEE 802.11g Antenna 3-1+Antenna 3-2+Antenna 3-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.80	30.00	Complies
6	2437 MHz	24.39	30.00	Complies
11	2462 MHz	19.74	30.00	Complies

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Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b/g / Antenna 4

Configuration IEEE 802.11b Antenna 4-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.53	22.10	Complies
6	2437 MHz	15.55	22.10	Complies
11	2462 MHz	15.66	22.10	Complies

Configuration IEEE 802.11b Antenna 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.63	22.10	Complies
6	2437 MHz	17.46	22.10	Complies
11	2462 MHz	17.44	22.10	Complies

Configuration IEEE 802.11b Antenna 4-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.17	22.10	Complies
6	2437 MHz	18.25	22.10	Complies
11	2462 MHz	17.25	22.10	Complies

Configuration IEEE 802.11b Antenna 4-1+Antenna 4-2+Antenna 4-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.68	22.10	Complies
6	2437 MHz	22.00	22.10	Complies
11	2462 MHz	21.62	22.10	Complies

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Configuration IEEE 802.11g Antenna 4-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.48	22.10	Complies
6	2437 MHz	15.92	22.10	Complies
11	2462 MHz	15.75	22.10	Complies

Configuration IEEE 802.11g Antenna 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.43	22.10	Complies
6	2437 MHz	17.71	22.10	Complies
11	2462 MHz	17.24	22.10	Complies

Configuration IEEE 802.11g Antenna 4-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.10	22.10	Complies
6	2437 MHz	17.45	22.10	Complies
11	2462 MHz	17.38	22.10	Complies

Configuration IEEE 802.11g Antenna 4-1+Antenna 4-2+Antenna 4-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.52	22.10	Complies
6	2437 MHz	21.87	22.10	Complies
11	2462 MHz	21.62	22.10	Complies

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Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11a/b/g / Antenna 5

Configuration IEEE 802.11b Antenna 5-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.23	30.00	Complies
6	2437 MHz	18.22	30.00	Complies
11	2462 MHz	16.42	30.00	Complies

Configuration IEEE 802.11b Antenna 5-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.23	30.00	Complies
6	2437 MHz	20.16	30.00	Complies
11	2462 MHz	18.75	30.00	Complies

Configuration IEEE 802.11b Antenna 5-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.73	30.00	Complies
6	2437 MHz	21.04	30.00	Complies
11	2462 MHz	18.26	30.00	Complies

Configuration IEEE 802.11b Antenna 5-1+Antenna 5-2+Antenna 5-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.29	30.00	Complies
6	2437 MHz	24.73	30.00	Complies
11	2462 MHz	22.68	30.00	Complies

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Configuration IEEE 802.11g Antenna 5-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.60	30.00	Complies
6	2437 MHz	21.41	30.00	Complies
11	2462 MHz	15.66	30.00	Complies

Configuration IEEE 802.11g Antenna 5-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.89	30.00	Complies
6	2437 MHz	23.24	30.00	Complies
11	2462 MHz	17.20	30.00	Complies

Configuration IEEE 802.11g Antenna 5-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.78	30.00	Complies
6	2437 MHz	23.16	30.00	Complies
11	2462 MHz	16.98	30.00	Complies

Configuration IEEE 802.11g Antenna 5-1+Antenna 5-2+Antenna 5-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.23	30.00	Complies
6	2437 MHz	27.45	30.00	Complies
11	2462 MHz	21.44	30.00	Complies

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Configuration IEEE 802.11a Antenna 5-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.21	30.00	Complies
157	5785 MHz	22.76	30.00	Complies
165	5825 MHz	23.01	30.00	Complies

Configuration IEEE 802.11a Antenna 5-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.69	30.00	Complies
157	5785 MHz	23.72	30.00	Complies
165	5825 MHz	23.19	30.00	Complies

Configuration IEEE 802.11a Antenna 5-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.10	30.00	Complies
157	5785 MHz	23.91	30.00	Complies
165	5825 MHz	23.53	30.00	Complies

Configuration IEEE 802.11a Antenna 5-1+Antenna 5-2+Antenna 5-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	28.45	30.00	Complies
157	5785 MHz	28.26	30.00	Complies
165	5825 MHz	28.02	30.00	Complies

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Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11a / Antenna 6

Configuration IEEE 802.11a Antenna 6-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	18.45	23.00	Complies
157	5785 MHz	18.02	23.00	Complies
165	5825 MHz	18.06	23.00	Complies

Configuration IEEE 802.11a Antenna 6-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.73	23.00	Complies
157	5785 MHz	17.82	23.00	Complies
165	5825 MHz	17.86	23.00	Complies

Configuration IEEE 802.11a Antenna 6-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.92	23.00	Complies
157	5785 MHz	18.32	23.00	Complies
165	5825 MHz	18.41	23.00	Complies

Configuration IEEE 802.11a Antenna 6-1+Antenna 6-2+Antenna 6-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.82	23.00	Complies
157	5785 MHz	22.83	23.00	Complies
165	5825 MHz	22.89	23.00	Complies

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Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11a / Antenna 7

Configuration IEEE 802.11a Antenna 7-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.33	30.00	Complies
157	5785 MHz	22.76	30.00	Complies
165	5825 MHz	23.27	30.00	Complies

Configuration IEEE 802.11a Antenna 7-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.98	30.00	Complies
157	5785 MHz	23.72	30.00	Complies
165	5825 MHz	23.58	30.00	Complies

Configuration IEEE 802.11a Antenna 7-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.29	30.00	Complies
157	5785 MHz	23.91	30.00	Complies
165	5825 MHz	23.96	30.00	Complies

Configuration IEEE 802.11a Antenna 7-1+Antenna 7-2+Antenna 7-3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	28.66	30.00	Complies
157	5785 MHz	28.26	30.00	Complies
165	5825 MHz	28.38	30.00	Complies

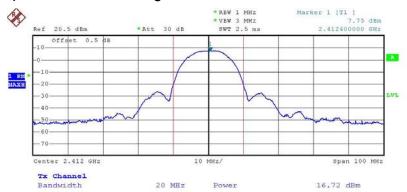
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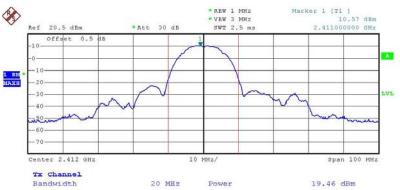


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-1/2412 MHz



Date: 17.MAR.2008 11:35:47

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-2/2412 MHz



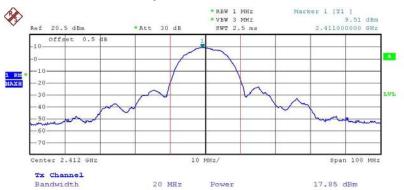
Date: 17.MAR.2008 11:37:49

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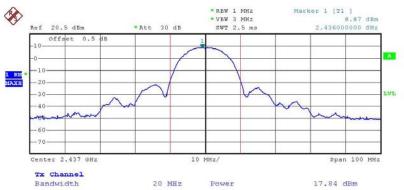


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-3/ 2412 MHz



Date: 17.MAR.2008 11:39:21

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-1/2437 MHz



Date: 17.MAR.2008 11:43:38

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Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-2/ 2437 MHz



Date: 17.MAR.2008 11:42:25

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-3/ 2437 MHz



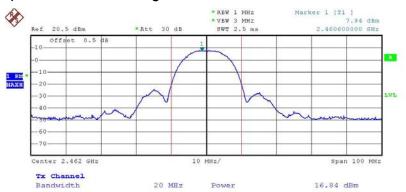
Date: 17.MAR.2008 11:41:02

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Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-1/2462 MHz



Date: 17.MAR.2008 11:47:30

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-2/ 2462 MHz



Date: 17.MAR.2008 11:48:40

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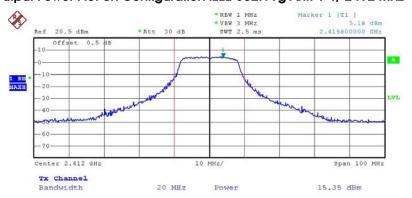


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 1-3/ 2462 MHz



Date: 17.MAR.2008 11:49:51

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-1/2412 MHz



Date: 17.MAR.2008 13:34:30

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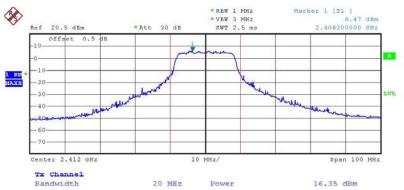


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-2/2412 MHz



Date: 17.MAR.2008 13:32:58

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-3/2412 MHz



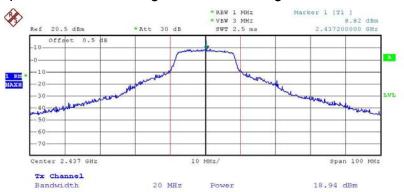
Date: 17.MAR.2008 13:31:39

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Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-1/2437 MHz



Date: 17.MAR.2008 11:56:07

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-2/2437 MHz



Date: 17.MAR.2008 11:57:32

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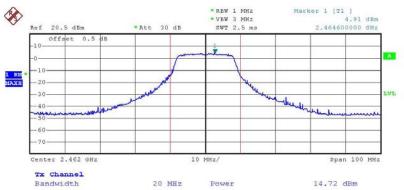


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-3/2437 MHz



Date: 17.MAR.2008 11:58:57

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-1/2462 MHz



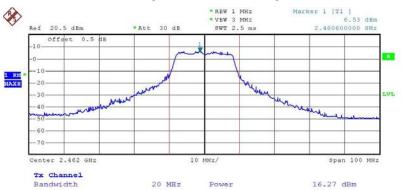
Date: 17.MAR.2008 11:54:20

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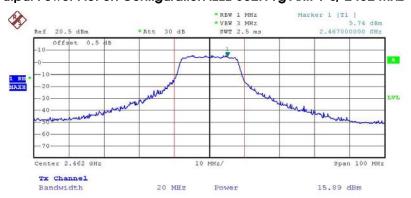


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-2/ 2462 MHz



Date: 17.MAR.2008 11:52:49

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 1-3/ 2462 MHz



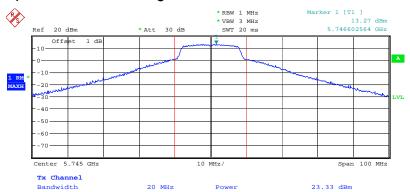
Date: 17.MAR.2008 11:51:17

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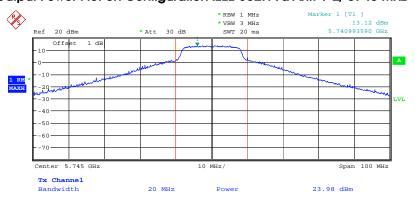


Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-1/5745 MHz



Date: 20.MAR.2008 21:12:08

Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-2/5745 MHz



Date: 20.MAR.2008 21:10:43

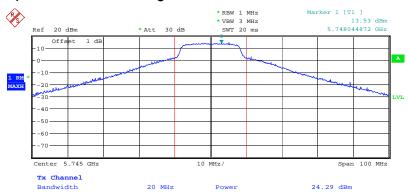
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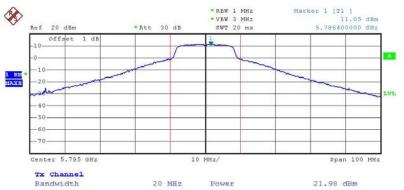


Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-3/5745 MHz



Date: 20.MAR.2008 21:11:20

Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-1/5785 MHz



Date: 17.MAR.2008 17:11:24

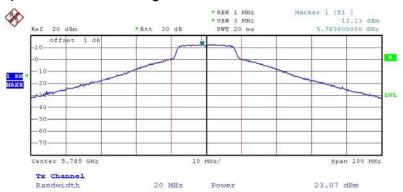
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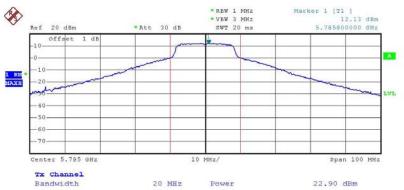


Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-2/5785 MHz



Date: 17.MAR.2008 17:12:37

Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-3/5785 MHz



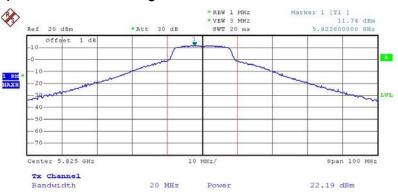
Date: 17.MAR.2008 17:13:46

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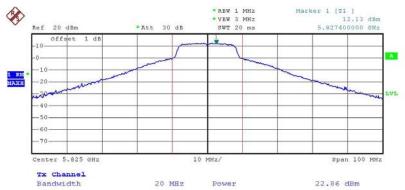


Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-1/5825 MHz



Date: 17.MAR.2008 17:16:45

Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-2/5825 MHz

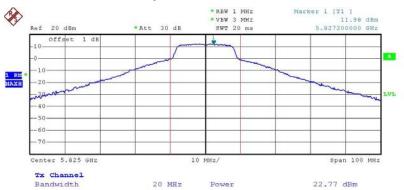


Date: 17.MAR.2008 17:15:55

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Conducted Output Power Plot on Configuration IEEE 802.11a Ant. 1-3/5825 MHz

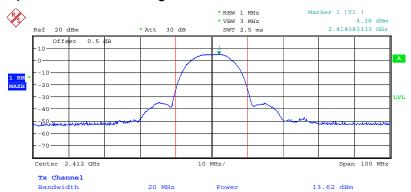


Date: 17.MAR.2008 17:14:59



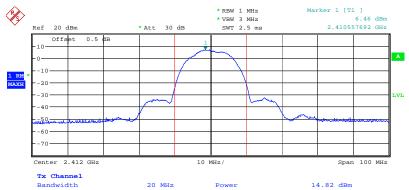


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-1/2412 MHz



Date: 22.MAR.2008 14:13:25

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-2/2412 MHz



Date: 22.MAR.2008 14:14:37

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Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-3/2412 MHz



Date: 22.MAR.2008 14:16:50

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-1/2437 MHz



Date: 21.MAR.2008 15:02:01

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Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-2/ 2437 MHz



Date: 21.MAR.2008 15:02:31

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-3/ 2437 MHz



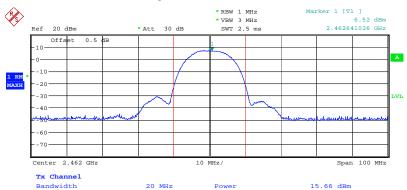
Date: 21.MAR.2008 15:03:21

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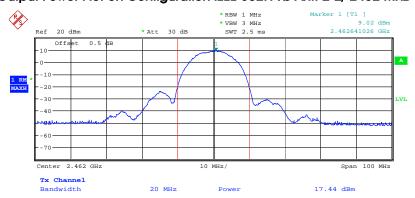


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-1/2462 MHz



Date: 21.MAR.2008 18:54:06

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-2/ 2462 MHz



Date: 21.MAR.2008 18:53:17

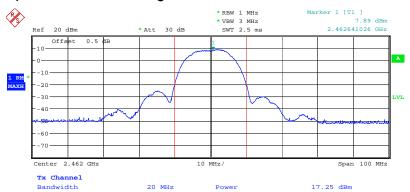
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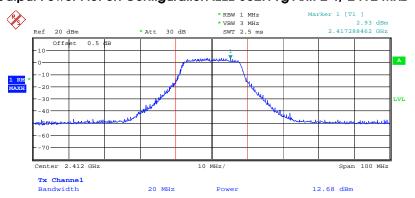


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 2-3/ 2462 MHz



Date: 21.MAR.2008 18:52:37

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-1/2412 MHz



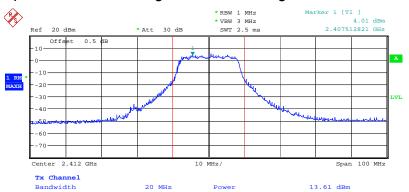
Date: 22.MAR.2008 14:57:46

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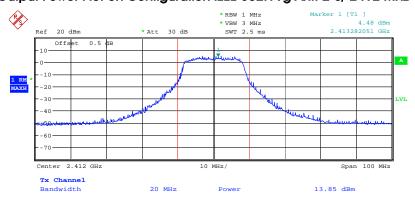


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-2/2412 MHz



Date: 22.MAR.2008 14:56:54

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-3/2412 MHz



Date: 22.MAR.2008 14:53:19

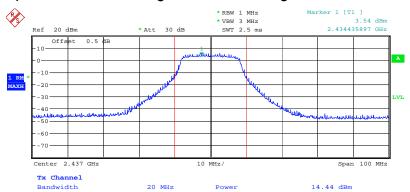
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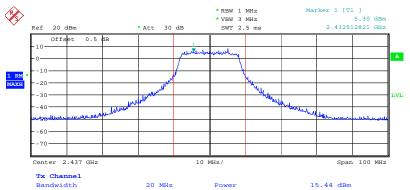


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-1/2437 MHz



Date: 22.MAR.2008 15:00:54

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-2/2437 MHz



Date: 22.MAR.2008 15:03:30

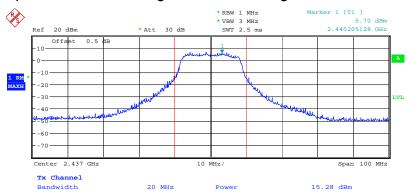
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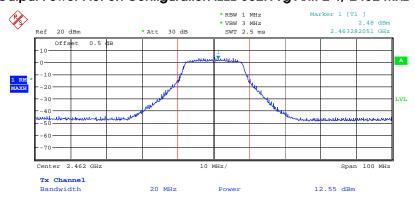


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-3/2437 MHz



Date: 22.MAR.2008 15:05:38

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-1/2462 MHz



Date: 22.MAR.2008 15:09:55

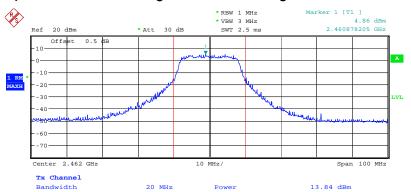
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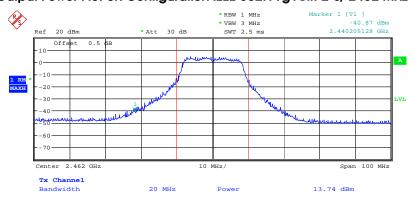


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-2/ 2462 MHz



Date: 22.MAR.2008 15:08:23

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 2-3/ 2462 MHz



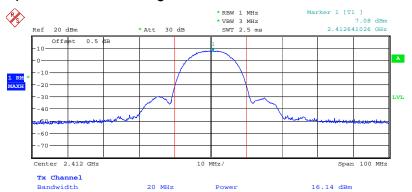
Date: 22.MAR.2008 15:07:27

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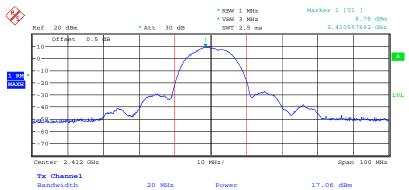


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-1/2412 MHz



Date: 22.MAR.2008 14:28:13

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-2/2412 MHz



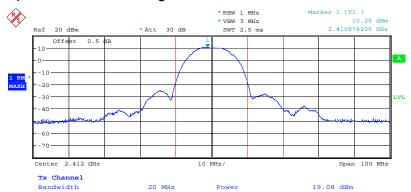
Date: 22.MAR.2008 14:25:31

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Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-3/2412 MHz



Date: 22.MAR.2008 14:25:00

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-1/2437 MHz



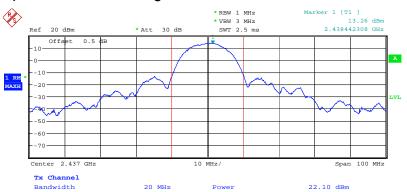
Date: 22.MAR.2008 14:30:07

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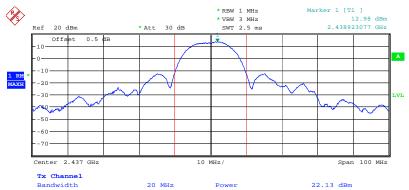


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-2/2437 MHz



Date: 22.MAR.2008 14:31:12

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-3/2437 MHz



Date: 22.MAR.2008 14:31:59

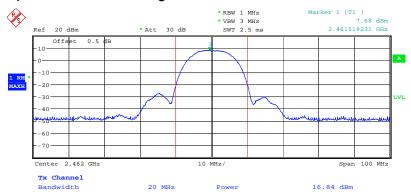
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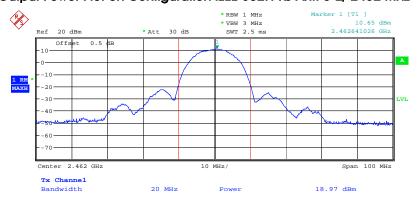


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-1/2462 MHz



Date: 22.MAR.2008 14:35:31

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-2/ 2462 MHz



Date: 22.MAR.2008 14:34:52

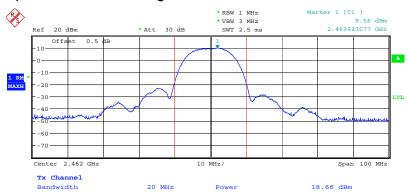
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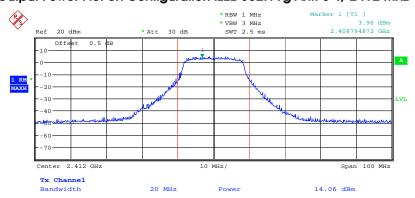


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 3-3/ 2462 MHz



Date: 22.MAR.2008 14:34:14

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-1/2412 MHz



Date: 22.MAR.2008 14:42:52

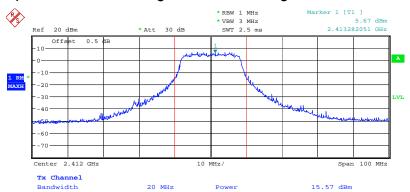
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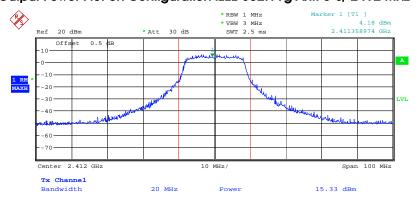


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-2/2412 MHz



Date: 22.MAR.2008 14:43:55

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-3/2412 MHz



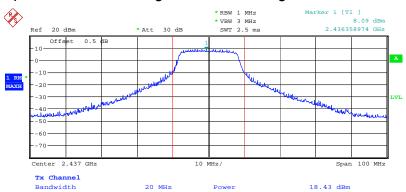
Date: 22.MAR.2008 14:44:49

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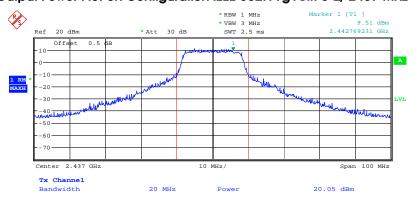


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-1/2437 MHz



Date: 22.MAR.2008 14:41:45

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-2/2437 MHz



Date: 22.MAR.2008 14:40:52

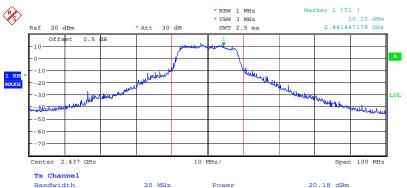
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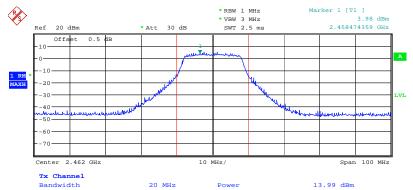


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-3/2437 MHz



Date: 22.MAR.2008 14:40:08

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-1/2462 MHz



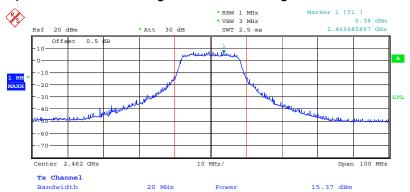
Date: 22.MAR.2008 14:37:08

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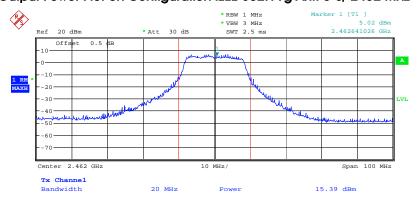


Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-2/2462 MHz



Date: 22.MAR.2008 14:37:57

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 3-3/2462 MHz



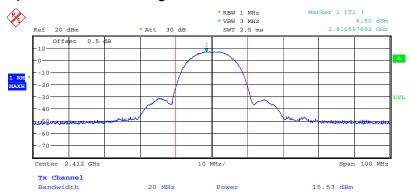
Date: 22.MAR.2008 14:38:42

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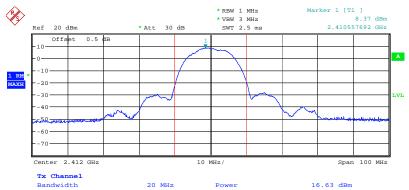


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-1/2412 MHz



Date: 21.MAR.2008 18:47:17

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-2/ 2412 MHz



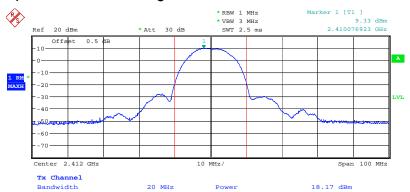
Date: 21.MAR.2008 18:46:28

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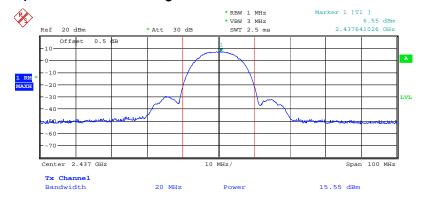


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-3/2412 MHz



Date: 21.MAR.2008 18:45:34

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-1/2437 MHz



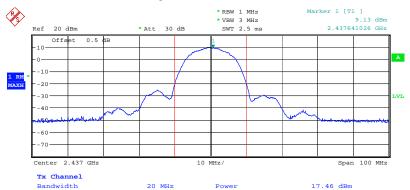
Date: 21.MAR.2008 18:48:55

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Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-2/ 2437 MHz



Date: 21.MAR.2008 18:49:26

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-3/ 2437 MHz



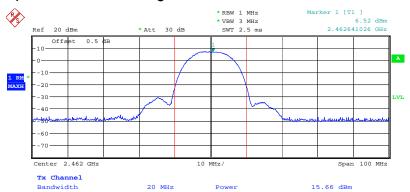
Date: 21.MAR.2008 18:50:01

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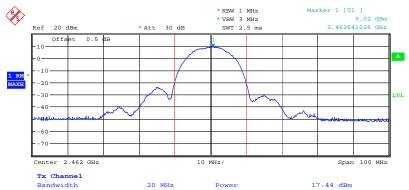


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-1/2462 MHz



Date: 21.MAR.2008 18:54:06

Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-2/ 2462 MHz



Date: 21.MAR.2008 18:53:17

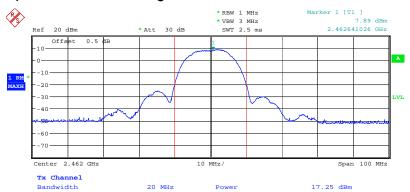
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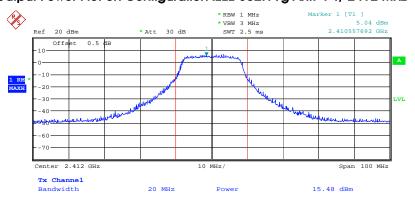


Conducted Output Power Plot on Configuration IEEE 802.11b Ant. 4-3/ 2462 MHz



Date: 21.MAR.2008 18:52:37

Conducted Output Power Plot on Configuration IEEE 802.11g Ant. 4-1/2412 MHz



Date: 21.MAR.2008 19:09:58

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