

FCC TEST REPORT

REPORT NO.: RF940727L05

MODEL NO.: MB6000

RECEIVED: Aug. 13, 2005

TESTED: Aug. 08 ~ Aug. 31, 2005

ISSUED: Sep. 05, 2005

APPLICANT: Top Global USA, Inc.

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ISSUED BY: Advance Data Technology Corporation

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U528 ILAC MRA

No. 2177-01



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1. CERTIFICATION

PRODUCT: Mobile Bridge

BRAND NAME: Top Global

MODEL NO.: MB6000

TEST SAMPLE: ENGINEERING SAMPLE

TESTED: Aug. 08 ~ Aug. 31, 2005

APPLICANT: Top Global USA, Inc.

STANDARDS: FCC Part 15, Subpart C (Section 15.247),

ANSI C63.4-2003

The above equipment have been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Wordy , DATE: Sep. 05, 2005

-W∉ndy Liao

TECHNICAL

ACCEPTANCE: Gay Chang , DATE: Sep. 05, 2005

Responsible for RF Gary Chang

APPROVED BY : DATE: Sep. 05, 2005

Cody Chang Deputy Manager

FCC ID: SUMMB6000



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C								
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK					
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -10.88dB at 0.240MHz.					
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.					
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.					
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.04dB at 2390.00MHz.					
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.					
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.					

FCC ID: SUMMB6000



2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44 dB
	30MHz ~ 200MHz	3.73 dB
Radiated emissions	200MHz ~1000MHz	3.74 dB
Radiated emissions	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Mobile Bridge
MODEL NO.	MB6000
POWER SUPPLY	5.0Vdc from AC adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	32.509mW
ANTENNA TYPE	Dipole antenna with 2.52dBi
DATA CABLE	0.1m RS232 shielded cable
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT was tested with the following AC adapters:

BRAND:	LEI
MODEL:	MT15-5050250-A1
INPUT:	100-120Vac, 60Hz, 0.5A
OUTPUT:	5.0Vdc, 2.5A
POWER LINE:	DC 1.8m non-shielded cable without core

BRAND:	TOP Global
MODEL:	WRG20F-05BA
INPUT:	100-240Vac, 50-60Hz, 0.6A max.
OUTPUT:	5.0Vdc, 4.0A
POWER LINE:	DC 1.7m non-shielded cable with one core

- 2.The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 54Mbps.
- 3. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

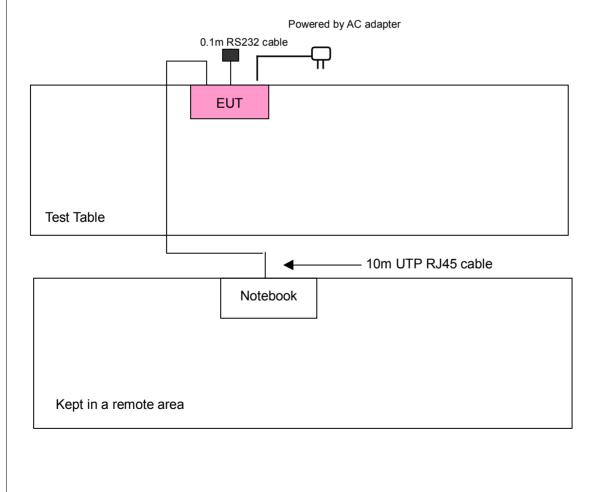


3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
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	5 2432 MHz		2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT		APPLICA	ABLE TO		DECODINATION	
MODE	PLC	RE<1G	RE≥1G	APCM	DESCRIPTION	
Α	V	√	V	V	Powered by AC adapter: MT15-5050250-A1	
В	√	√	-	-	Powered by AC adapter: WRG20F-05BA	

Where PLC: Power Line Conducted Emission R

RE<1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

NOTE: "-" means no effect.

POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
Α	802.11b	1 to 11	1, 6, 11	DSSS	ССК	11
В	802.11b	1 to 11	1, 6, 11	DSSS	ССК	11

RADIATED EMISSION TEST (BELOW 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
Α	802.11b	1 to 11	11	DSSS	ССК	11
В	802.11b	1 to 11	11	DSSS	сск	11



RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
Α	802.11b	1 to 11	1, 6, 11	DSSS	ССК	11
Α	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
Α	802.11b	1 to 11	1, 11	DSSS	ССК	11
Α	802.11g	1 to 11	1, 11	OFDM	BPSK	6

ANTENNA PORT CONDUCTED MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
Α	802.11b	1 to 11	1, 6, 11	DSSS	ССК	11
Α	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6



3.2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE: 1. All power cords of the above support units are non shielded (1.8m).

2. Item 1 acts as a communication partner to transfer data.



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)				
	Quasi-peak	Average			
0.15-0.5	66 to 56	56 to 46			
0.5-5	56	46			
5-30	60	50			

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 16, 2005
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 09, 2006
LISN SCHWARZBECK	NNBL 8226-2	8226-142	May. 02, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 15, 2006
Software ADT	ADT_Cond_V3	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



4.1.3 TEST PROCEDURES

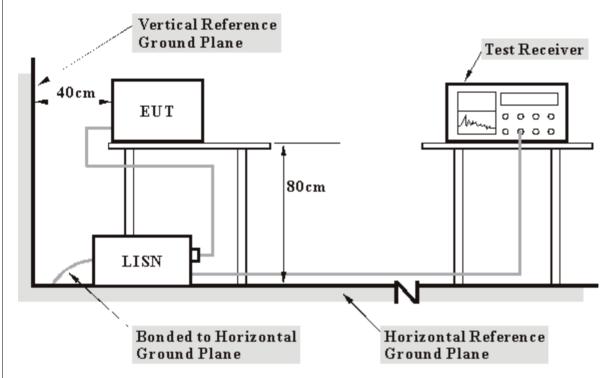
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation



4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on a testing table
- b. Prepared a notebook system to act as a communication partner.
- c. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.



4.1.7 TEST RESULTS

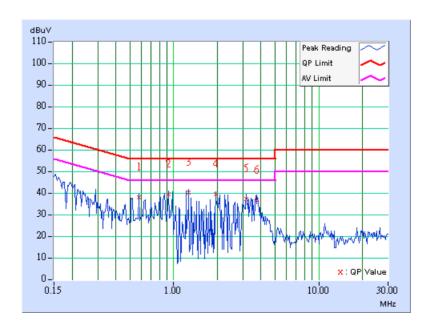
CONDUCTED WORST-CASE DATA

EUT	Mobile Bridge	MEASUREMENT DETAIL				
MODEL	MB6000	PHASE	Line 1			
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	CCK	TEST MODE	Α			
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen			

	FREQ.	CORR.	REAI VAL	DING LUE	EMIS LE\	SION /EL	LIN	ΛΙΤ	MAR	GIN
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.580	0.15	37.61	-	37.76	-	56.00	46.00	-18.24	-
2	0.927	0.22	39.20	-	39.42	-	56.00	46.00	-16.58	-
3	1.273	0.25	40.10	-	40.35	-	56.00	46.00	-15.65	-
4	1.962	0.26	39.14	ı	39.40	-	56.00	46.00	-16.60	-
5	3.184	0.34	36.92	-	37.26	-	56.00	46.00	-18.74	-
6	3.750	0.37	36.21	-	36.58	-	56.00	46.00	-19.42	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.





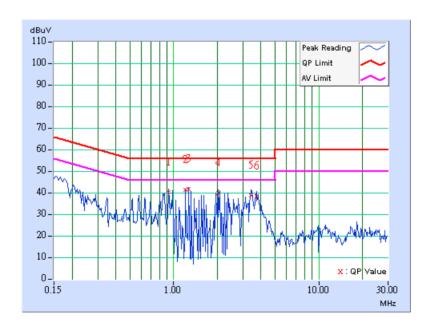
Report Format Version 2.0.3

EUT	Mobile Bridge	MEASUREMENT DETAIL				
MODEL	MB6000	PHASE	Line 2			
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	CCK	TEST MODE	A			
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen			

	FREQ.	CORR.		DING LUE		SION /EL	LIN	ИIT	MAR	GIN
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	В)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.925	0.22	39.87	-	40.09	-	56.00	46.00	-15.91	-
2	1.211	0.24	41.00	-	41.24	-	56.00	46.00	-14.76	-
3	1.270	0.25	41.42	-	41.67	-	56.00	46.00	-14.33	-
4	2.023	0.26	39.60	ı	39.86	-	56.00	46.00	-16.14	=
5	3.402	0.35	38.54	-	38.89	-	56.00	46.00	-17.11	-
6	3.742	0.37	38.19	ı	38.56	-	56.00	46.00	-17.44	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



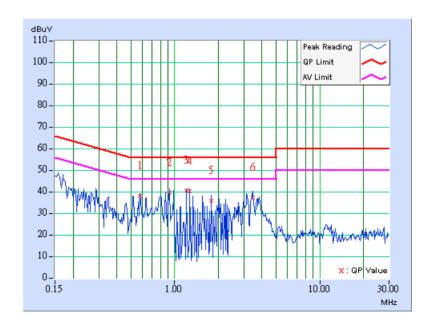


EUT	Mobile Bridge	MEASUREMENT DETAIL				
MODEL	MB6000	PHASE	Line 1			
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	DULATION TYPE CCK TEST MODE		A			
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen			

	FREQ.	CORR.		DING LUE		SION /EL	LIN	ИIT	MAR	GIN
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	В)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.580	0.15	37.78	-	37.93	-	56.00	46.00	-18.07	-
2	0.927	0.22	39.32	-	39.54	-	56.00	46.00	-16.46	-
3	1.211	0.24	40.30	-	40.54	-	56.00	46.00	-15.46	-
4	1.273	0.25	40.18	ı	40.43	-	56.00	46.00	-15.57	=
5	1.797	0.26	35.70	-	35.96	-	56.00	46.00	-20.04	-
6	3.457	0.35	37.02	ı	37.37	-	56.00	46.00	-18.63	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



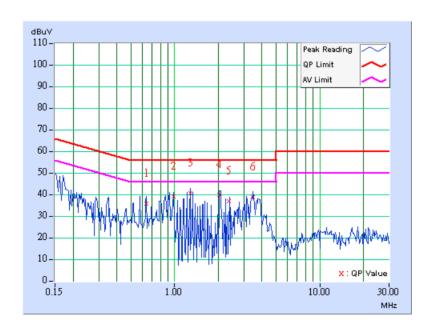


EUT	Mobile Bridge	MEASUREMENT DETAIL				
MODEL	MB6000	PHASE	Line 2			
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	CCK	TEST MODE	Α			
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen			

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.638	0.16	35.58	-	35.74	-	56.00	46.00	-20.26	-
2	0.986	0.24	39.06	-	39.30	-	56.00	46.00	-16.70	-
3	1.277	0.25	40.32	-	40.57	-	56.00	46.00	-15.43	-
4	2.027	0.26	39.57	-	39.83	-	56.00	46.00	-16.17	-
5	2.371	0.28	36.56	-	36.84	-	56.00	46.00	-19.16	-
6	3.465	0.36	38.43	-	38.79	-	56.00	46.00	-17.21	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



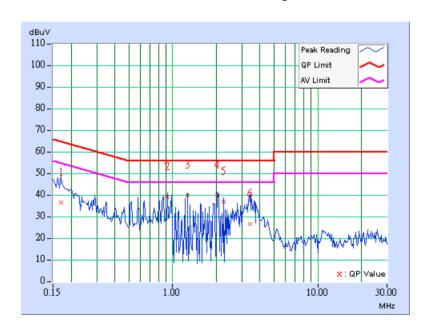


EUT	Mobile Bridge	MEASUREMENT DETAIL					
MODEL	MB6000	PHASE	Line 1				
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz				
MODULATION TYPE	CCK	TEST MODE	Α				
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz				
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen				

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.11	36.19	-	36.30	-	64.98	54.98	-28.69	-
2	0.927	0.22	39.04	-	39.26	-	56.00	46.00	-16.74	-
3	1.270	0.25	39.78	-	40.03	-	56.00	46.00	-15.97	-
4	2.023	0.26	39.63	-	39.89	-	56.00	46.00	-16.11	=
5	2.250	0.28	36.55	-	36.83	-	56.00	46.00	-19.17	-
6	3.395	0.35	26.44	-	26.79	-	56.00	46.00	-29.21	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



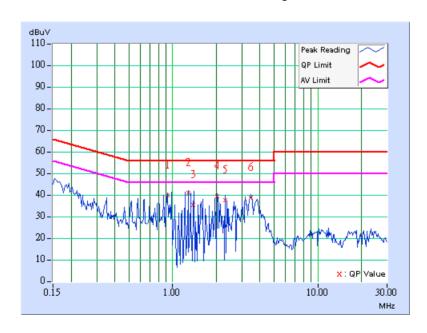


EUT	Mobile Bridge	MEASUREMENT DETA	AIL
MODEL	MB6000	PHASE	Line 2
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	CCK	TEST MODE	Α
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		FACTOR	[dB	(uV)]	[dB	(uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.927	0.22	39.57	-	39.79	-	56.00	46.00	-16.21	-
2	1.277	0.25	40.91	-	41.16	-	56.00	46.00	-14.84	-
3	1.388	0.25	35.29	-	35.54	-	56.00	46.00	-20.46	-
4	2.031	0.26	39.16	-	39.42	-	56.00	46.00	-16.58	-
5	2.311	0.28	37.50	-	37.78	-	56.00	46.00	-18.22	-
6	3.466	0.36	38.41	-	38.77	-	56.00	46.00	-17.23	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



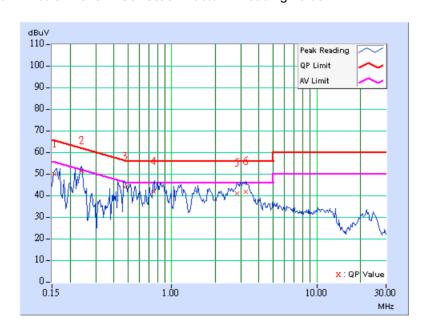


EUT	Mobile Bridge	MEASUREMENT DETA	AIL
MODEL	MB6000	PHASE	Line 1
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	CCK	TEST MODE	В
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.157	0.11	49.51	-	49.62	-	65.63	55.63	-16.02	-
2	0.240	0.11	51.11	•	51.22	-	62.10	52.10	-10.88	-
3	0.478	0.13	43.58	ı	43.71	-	56.37	46.37	-12.67	=
4	0.754	0.19	41.35	-	41.54	-	56.00	46.00	-14.46	-
5	2.824	0.31	40.64	-	40.95	-	56.00	46.00	-15.05	_
6	3.233	0.34	41.54	-	41.88	-	56.00	46.00	-14.12	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



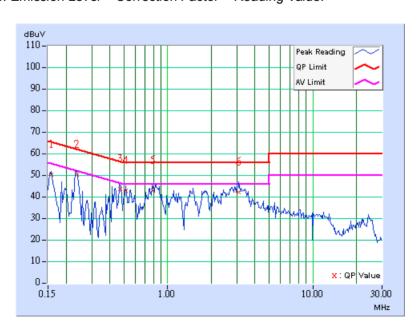


EUT	Mobile Bridge	MEASUREMENT DETA	AIL
MODEL	MB6000	PHASE	Line 2
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	CCK	TEST MODE	В
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.11	50.08	-	50.19	-	65.58	55.58	-15.39	-
2	0.236	0.11	50.21	-	50.32	-	62.24	52.24	-11.92	-
3	0.473	0.13	43.38	-	43.51	-	56.47	46.47	-12.96	-
4	0.512	0.13	42.64	-	42.77	-	56.00	46.00	-13.23	-
5	0.788	0.19	42.65	-	42.84	-	56.00	46.00	-13.16	-
6	3.084	0.33	41.97	-	42.30	-	56.00	46.00	-13.70	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



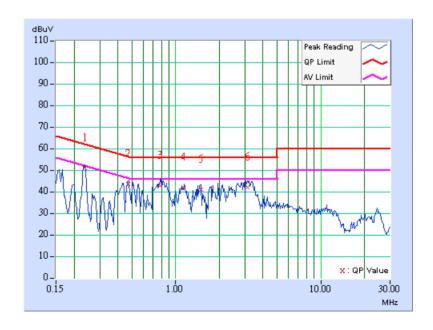


EUT	Mobile Bridge	MEASUREMENT DETAIL				
MODEL	MB6000	PHASE	Line 1			
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	CCK	TEST MODE	В			
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen			

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	В)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.236	0.11	50.61	-	50.72	-	62.24	52.24	-11.52	-
2	0.469	0.12	43.31	-	43.43	-	56.53	46.53	-13.09	-
3	0.785	0.19	42.64	-	42.83	-	56.00	46.00	-13.17	-
4	1.136	0.24	41.89	-	42.13	-	56.00	46.00	-13.87	=
5	1.490	0.25	40.70	-	40.95	-	56.00	46.00	-15.05	-
6	3.125	0.33	41.72	-	42.05	-	56.00	46.00	-13.95	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



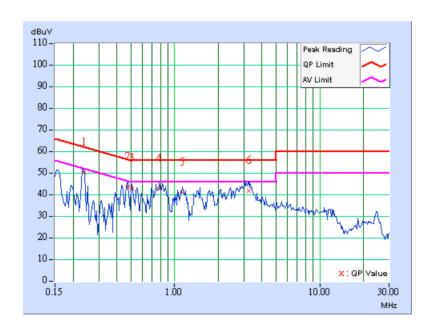


EUT	Mobile Bridge	MEASUREMENT DETAIL			
MODEL	MB6000	PHASE	Line 2		
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz		
MODULATION TYPE	CCK	TEST MODE	В		
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen		

	FREQ.	CORR.		DING LUE	EMIS LE\		LIN	ЛІТ	MAR	GIN
No		FACTOR	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	В)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.236	0.11	49.93	-	50.04	-	62.24	52.24	-12.20	-
2	0.474	0.13	43.53	-	43.66	-	56.44	46.44	-12.78	-
3	0.510	0.13	42.52	-	42.65	-	56.00	46.00	-13.35	-
4	0.784	0.19	42.80	-	42.99	-	56.00	46.00	-13.01	-
5	1.133	0.24	40.93	-	41.17	-	56.00	46.00	-14.83	-
6	3.232	0.34	41.52	-	41.86	-	56.00	46.00	-14.14	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



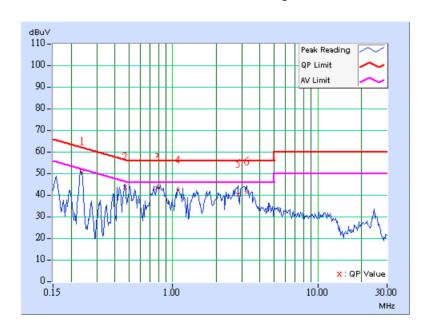


EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	PHASE	Line 1	
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz	
MODULATION TYPE	CCK	TEST MODE	В	
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen	

	FREQ.	CORR.		DING .UE	EMIS LE\	SION /EL	LIN	ИIT	MAR	GIN
No		FACTOR	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.236	0.11	50.51	-	50.62	-	62.24	52.24	-11.62	-
2	0.470	0.13	43.54	-	43.67	-	56.51	46.51	-12.84	-
3	0.783	0.19	42.86	-	43.05	-	56.00	46.00	-12.95	-
4	1.094	0.24	42.00	ı	42.24	-	56.00	46.00	-13.76	=
5	2.832	0.31	40.04	-	40.35	-	56.00	46.00	-15.65	-
6	3.238	0.34	41.10	ı	41.44	-	56.00	46.00	-14.56	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.



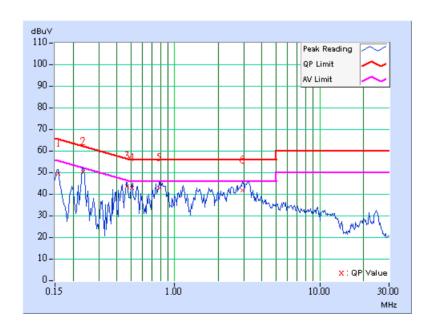


EUT	Mobile Bridge	MEASUREMENT DETAIL			
MODEL	MB6000	PHASE	Line 2		
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz		
MODULATION TYPE	CCK	TEST MODE	В		
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen		

	FREQ.	CORR.		DING LUE		SION /EL	LIMIT		MARGIN	
No		FACTOR	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	В)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.11	49.25	-	49.36	-	65.58	55.58	-16.22	-
2	0.235	0.11	50.03	-	50.14	-	62.28	52.28	-12.14	-
3	0.469	0.12	43.47	-	43.59	-	56.53	46.53	-12.94	-
4	0.508	0.13	42.48	ı	42.61	-	56.00	46.00	-13.39	=
5	0.783	0.19	42.82	-	43.01	-	56.00	46.00	-12.99	-
6	2.949	0.32	41.42	-	41.74	-	56.00	46.00	-14.26	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Correction factor = Insertion loss + Cable loss.
- 6. Emission Level = Correction Factor + Reading Value.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	100033	May. 19, 2006
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2006
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Jun. 01, 2006
HORN Antenna SCHWARZBECK	9120D	9120D-408	Jan. 17, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Jan. 23, 2006
Preamplifier Agilent	8447D	2944A10633	Nov. 09, 2005
Preamplifier Agilent	8449B	3008A01964	Nov. 06, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218183/4	Jan. 26, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218195/4	Jan. 26, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Chamber 2.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The VCCI Site Registration No. is R-237.
- 5. The IC Site Registration No. is IC4924-3.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak method or average method as specified and then reported in data sheet.

NOTE:

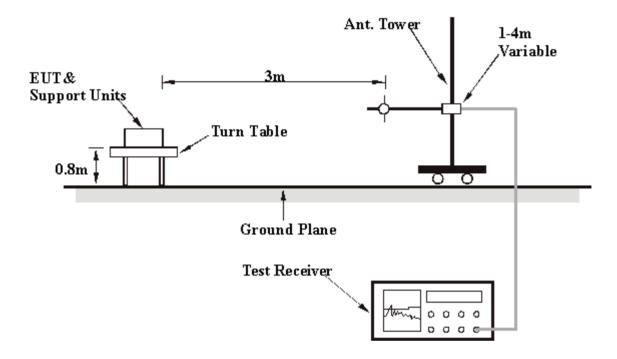
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1kHz for Average detection (AV) at frequency above 1GHz.



4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



4.2.7 TEST RESULTS

RADIATED WORST-CASE DATA: BELOW 1GHz

EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	FREQUENCY RANGE	Below 1000MHz	
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak	
MODULATION TYPE	CCK	TEST MODE	Α	
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	25deg. C, 70%RH, 991hPa	TESTED BY	Morgan Chen	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	383.79	39.02 QP	46.00	-6.98	1.00 H	295	21.44	17.58
2	500.42	43.32 QP	46.00	-2.68	1.50 H	46	23.02	20.29
3	700.64	44.28 QP	46.00	-1.72	1.00 H	40	20.38	23.90
4	751.18	39.26 QP	46.00	-6.74	1.00 H	328	13.35	25.91
5	799.78	43.25 QP	46.00	-2.75	1.00 H	46	16.98	26.27
6	900.86	44.25 QP	46.00	-1.75	1.25 H	319	17.09	27.16
7	912.53	44.22 QP	46.00	-1.78	1.50 H	70	16.90	27.32

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction
No.	(MHz)	Level	-	J	Height	Angle	Value	Factor
	(IVIF1Z)	(dBuV/m)	(ubuv/III)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)
1	64.99	37.40 QP	40.00	-2.60	1.25 V	196	24.42	12.98
2	500.42	44.51 QP	46.00	-1.49	1.00 V	292	24.22	20.29
3	700.64	43.26 QP	46.00	-2.74	1.25 V	313	19.36	23.90
4	751.18	40.02 QP	46.00	-5.98	1.00 V	4	14.10	25.91
5	799.78	40.32 QP	46.00	-5.68	1.75 V	331	14.04	26.27
6	900.86	42.95 QP	46.00	-3.05	1.50 V	28	15.79	27.16
7	912.53	42.38 QP	46.00	-3.62	1.00 V	16	15.06	27.32

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	FREQUENCY RANGE	Below 1000MHz	
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak	
MODULATION TYPE	ССК	TEST MODE	В	
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	25deg. C, 70%RH, 991hPa	TESTED BY	Morgan Chen	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	300.20	40.12 QP	46.00	-5.88	1.00 H	265	24.24	15.87		
2	383.79	40.56 QP	46.00	-5.44	1.00 H	304	22.98	17.58		
3	500.42	43.67 QP	46.00	-2.33	1.50 H	55	23.37	20.29		
4	700.64	43.87 QP	46.00	-2.13	1.00 H	43	19.97	23.90		
5	750.04	43.74 QP	46.00	-2.26	1.83 H	271	17.84	25.90		
6	799.78	42.68 QP	46.00	-3.32	1.00 H	43	16.40	26.27		
7	900.01	44.47 QP	46.00	-1.53	1.24 H	315	17.33	27.14		
8	912.53	44.26 QP	46.00	-1.74	1.50 H	64	16.94	27.32		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq.	Emission Level	Limit	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor		
110.	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	47.49	36.85 QP	40.00	-3.15	1.00 V	208	22.17	14.68		
2	64.99	37.14 QP	40.00	-2.86	1.00 V	130	24.16	12.98		
3	399.34	40.24 QP	46.00	-5.76	1.00 V	37	22.19	18.06		
4	500.42	44.05 QP	46.00	-1.95	1.00 V	292	23.76	20.29		
5	624.83	40.09 QP	46.00	-5.91	1.50 V	343	17.02	23.07		
6	700.64	42.10 QP	46.00	-3.90	1.50 V	313	18.21	23.90		
7	751.18	41.52 QP	46.00	-4.48	1.00 V	325	15.61	25.91		
8	799.78	42.05 QP	46.00	-3.95	1.00 V	346	15.78	26.27		
9	900.86	43.42 QP	46.00	-2.58	1.50 V	358	16.26	27.16		
10	912.53	42.80 QP	46.00	-3.20	1.00 V	286	15.48	27.32		

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



802.11b DSSS MODULATION

EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1608.00	44.71 PK	74.00	-29.29	1.01 H	172	15.35	29.36		
2	2390.00	47.20 PK	74.00	-26.80	1.10 H	248	15.33	31.87		
3	*2412.00	96.32 PK			1.10 H	248	64.36	31.96		
3	*2412.00	88.22 AV			1.10 H	248	56.26	31.96		
4	3216.00	44.27 PK	76.32	-32.05	1.02 H	216	10.31	33.96		
5	4824.00	48.09 PK	74.00	-25.91	1.04 H	127	10.26	37.83		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1608.00	47.92 PK	74.00	-26.08	1.66 V	188	18.56	29.36		
1	1608.00	44.05 AV	54.00	-9.95	1.66 V	188	14.69	29.36		
2	2390.00	59.94 PK	74.00	-14.06	1.22 V	185	28.07	31.87		
2	2390.00	52.34 AV	54.00	-1.66	1.22 V	185	20.47	31.87		
3	*2412.00	109.06 PK			1.22 V	185	77.10	31.96		
3	*2412.00	101.46 AV			1.22 V	185	69.50	31.96		
4	3216.00	46.95 PK	89.06	-42.11	1.00 V	243	12.98	33.96		
4	3216.00	39.73 AV	81.46	-41.73	1.00 V	243	5.76	33.96		
5	4824.00	51.74 PK	74.00	-22.26	1.10 V	244	13.91	37.83		
5	4824.00	47.21 AV	54.00	-6.79	1.10 V	244	9.38	37.83		

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1624.00	44.52 PK	74.00	-29.48	1.02 H	213	15.12	29.40		
2	*2437.00	96.48 PK			1.10 H	250	64.42	32.06		
2	*2437.00	88.35 AV			1.10 H	250	56.29	32.06		
3	3248.00	45.12 PK	76.48	-31.36	1.01 H	198	11.13	33.99		
4	4874.00	48.11 PK	74.00	-25.89	1.03 H	119	10.13	37.98		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	1624.00	48.16 PK	74.00	-25.84	1.09 V	231	18.76	29.40	
2	*2437.00	109.11 PK			1.23 V	184	77.05	32.06	
2	*2437.00	101.52 AV			1.23 V	184	69.46	32.06	
3	3248.00	47.21 PK	89.11	-41.90	1.02 V	253	13.22	33.99	
4	4874.00	51.62 PK	74.00	-22.38	1.11 V	247	13.64	37.98	
4	4874.00	47.05 AV	54.00	-6.95	1.11 V	247	9.07	37.98	

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1641.00	45.20 PK	74.00	-28.80	1.02 H	167	15.75	29.45		
2	*2462.00	96.17 PK			1.11 H	251	64.01	32.16		
2	*2462.00	88.06 AV			1.11 H	251	55.90	32.16		
3	2483.50	41.85 PK	74.00	-32.15	1.11 H	251	9.61	32.24		
4	3282.00	44.71 PK	76.17	-31.46	1.01 H	213	10.69	34.02		
5	4924.00	48.27 PK	74.00	-25.73	1.03 H	141	10.13	38.14		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1641.00	47.68 PK	74.00	-26.32	1.60 V	185	18.23	29.45		
2	*2462.00	109.05 PK			1.22 V	185	76.89	32.16		
2	*2462.00	101.38 AV			1.22 V	185	69.22	32.16		
3	2483.50	54.73 PK	74.00	-19.27	1.22 V	185	22.49	32.24		
3	2483.50	47.06 AV	54.00	-6.94	1.22 V	185	14.82	32.24		
4	3282.00	47.08 PK	89.05	-41.97	1.01 V	211	13.06	34.02		
5	4924.00	51.82 PK	74.00	-22.18	1.12 V	257	13.68	38.14		
5	4924.00	47.49 AV	54.00	-6.51	1.12 V	257	9.35	38.14		

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



802.11g OFDM MODULATION

EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa	
TESTED BY	Brad Wu			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	1608.00	42.06 PK	74.00	-31.94	1.21 H	201	12.70	29.36			
2	2390.00	48.75 PK	74.00	-25.25	1.00 H	203	16.88	31.87			
3	*2412.00	95.25 PK			1.00 H	203	63.29	31.96			
3	*2412.00	87.84 AV			1.00 H	203	55.88	31.96			
4	3216.00	45.11 PK	75.25	-30.14	1.02 H	17	11.15	33.96			
5	4824.00	48.61 PK	74.00	-25.39	1.02 H	334	10.78	37.83			

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	1608.00	44.11 PK	74.00	-29.89	1.02 V	74	14.75	29.36			
1	1608.00	38.82 AV	54.00	-15.18	1.02 V	74	9.46	29.36			
2	2390.00	60.42 PK	74.00	-13.58	1.25 V	241	28.55	31.87			
2	2390.00	52.96 AV	54.00	-1.04	1.25 V	241	21.09	31.87			
3	*2412.00	106.92 PK			1.25 V	241	74.96	31.96			
3	*2412.00	99.46 AV			1.25 V	241	67.50	31.96			
4	3216.00	47.28 PK	86.92	-39.64	1.00 V	243	13.31	33.96			
4	3216.00	41.21 AV	79.46	-38.25	1.00 V	243	7.24	33.96			
5	4824.00	52.42 PK	74.00	-21.58	1.05 V	324	14.59	37.83			
5	4824.00	48.41 AV	54.00	-5.59	1.05 V	324	10.58	37.83			

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1624.00	42.57 PK	74.00	-31.43	1.20 H	211	13.17	29.40		
2	*2437.00	95.19 PK			1.00 H	206	63.13	32.06		
2	*2437.00	87.71 AV			1.00 H	206	55.65	32.06		
3	3248.00	45.36 PK	75.19	-29.83	1.01 H	24	11.37	33.99		
4	4874.00	48.85 PK	74.00	-25.15	1.00 H	351	10.87	37.98		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1624.00	44.39 PK	74.00	-29.61	1.01 V	82	14.99	29.40		
2	*2437.00	106.87 PK			1.26 V	243	74.81	32.06		
2	*2437.00	99.36 AV			1.26 V	243	67.30	32.06		
3	3248.00	45.81 PK	86.87	-41.06	1.03 V	42	11.82	33.99		
4	4874.00	52.16 PK	74.00	-21.84	1.02 V	341	14.18	37.98		
4	4874.00	48.10 AV	54.00	-5.90	1.02 V	341	10.12	37.98		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



EUT	Mobile Bridge	MEASUREMENT DETAIL		
MODEL	MB6000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1641.00	45.82 PK	74.00	-28.18	1.06 H	103	16.37	29.45		
2	*2462.00	95.36 PK			1.00 H	200	63.20	32.16		
2	*2462.00	87.97 AV			1.00 H	200	55.81	32.16		
3	2483.50	45.25 PK	74.00	-28.75	1.00 H	200	13.01	32.24		
4	3282.00	46.24 PK	75.36	-29.12	1.01 H	25	12.22	34.02		
5	4924.00	48.67 PK	74.00	-25.33	1.03 H	342	10.53	38.14		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	1641.00	45.23 PK	74.00	-28.77	1.07 V	95	15.78	29.45	
2	*2462.00	107.65 PK			1.25 V	240	75.49	32.16	
2	*2462.00	100.18 AV			1.25 V	240	68.02	32.16	
3	2483.50	57.54 PK	74.00	-16.46	1.25 V	240	25.30	32.24	
3	2483.50	50.07 AV	54.00	-3.93	1.25 V	240	17.83	32.24	
4	3282.00	47.65 PK	87.65	-40.00	1.02 V	325	13.63	34.02	
5	4924.00	52.16 PK	74.00	-21.84	1.01 V	279	14.02	38.14	
5	4924.00	48.10 AV	54.00	-5.90	1.01 V	279	9.96	38.14	

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK 30	100049	Aug. 14, 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 TEST RESULTS

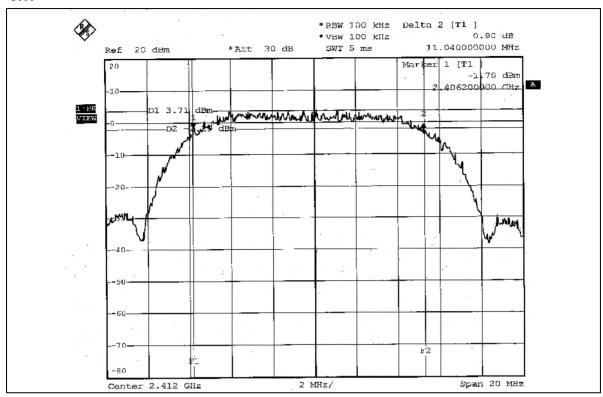
802.11b DSSS MODULATION

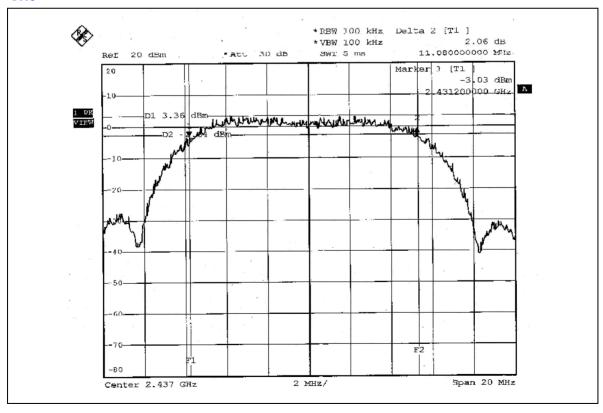
EUT	Mobile Bridge	MODEL	MB6000
MODULATION TYPE	ССК	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.04	0.5	PASS
6	2437	11.08	0.5	PASS
11	2462	10.88	0.5	PASS

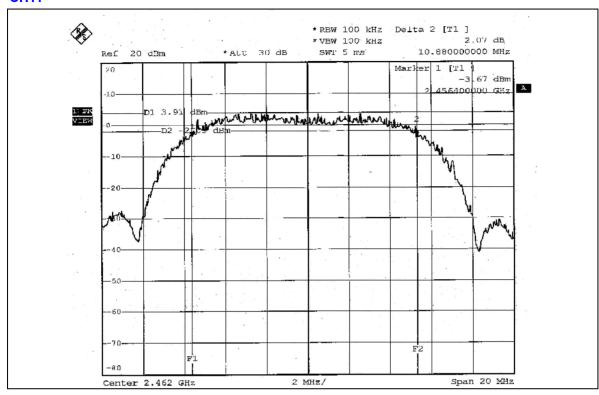


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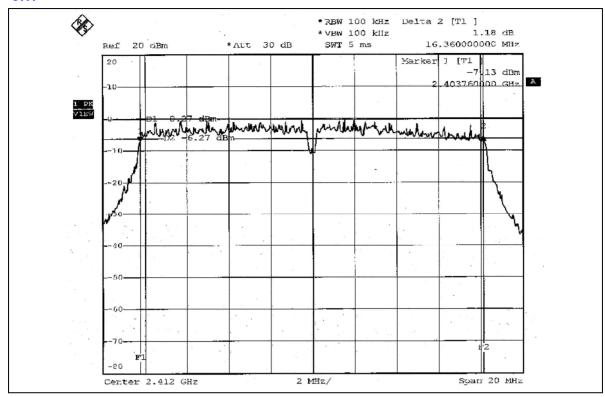
802.11g OFDM MODULATION

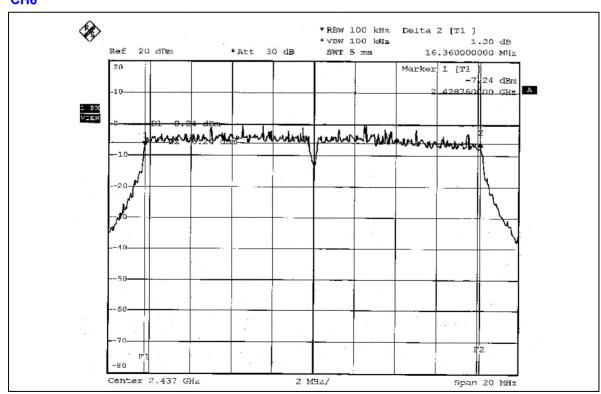
EUT	Mobile Bridge	MODEL	MB6000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.36	0.5	PASS
6	2437	16.36	0.5	PASS
11	2462	16.40	0.5	PASS

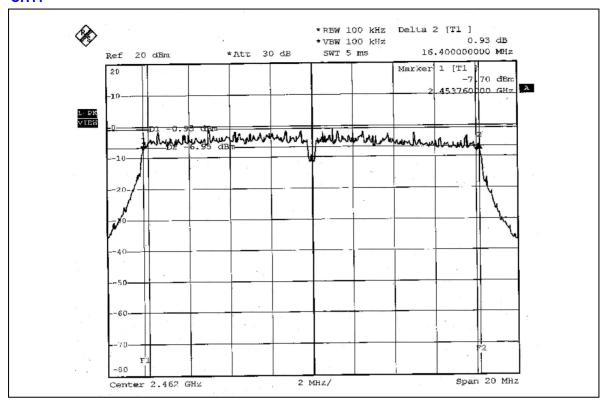


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4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 06, 2005
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Dec. 07, 2005
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.4.3 TEST PROCEDURES

- 1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
- 2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- 3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

802.11b DSSS MODULATION

EUT	Mobile Bridge	MODEL	MB6000
MODULATION TYPE	ССК	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	31.842	15.03	30	PASS
6	2437	32.509	15.12	30	PASS
11	2462	32.211	15.08	30	PASS

802.11g OFDM MODULATION

EUT	Mobile Bridge	MODEL	MB6000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	31.769	15.02	30	PASS
6	2437	32.211	15.08	30	PASS
11	2462	31.915	15.04	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



4.5.7 TEST RESULTS

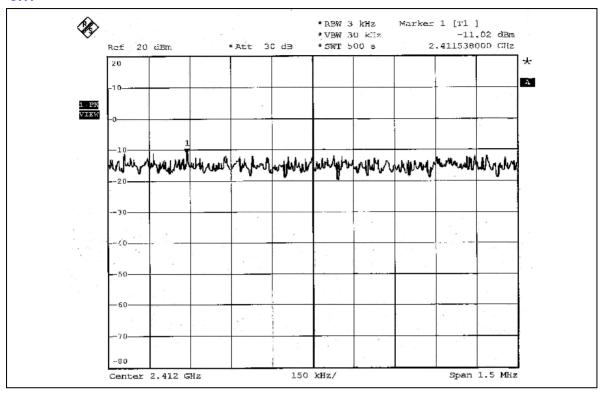
802.11b DSSS MODULATION

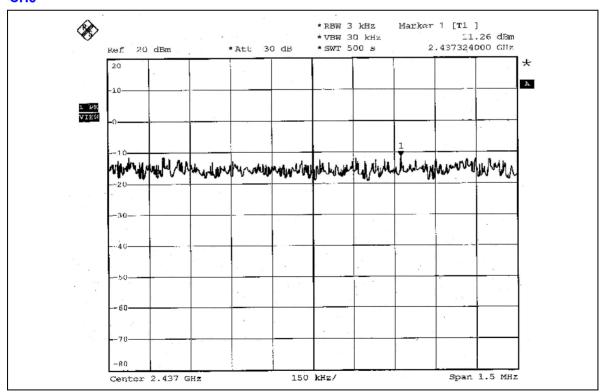
EUT	Mobile Bridge	MODEL	MB6000
MODULATION TYPE	ССК	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.02	8	PASS
6	2437	-11.26	8	PASS
11	2462	-11.18	8	PASS

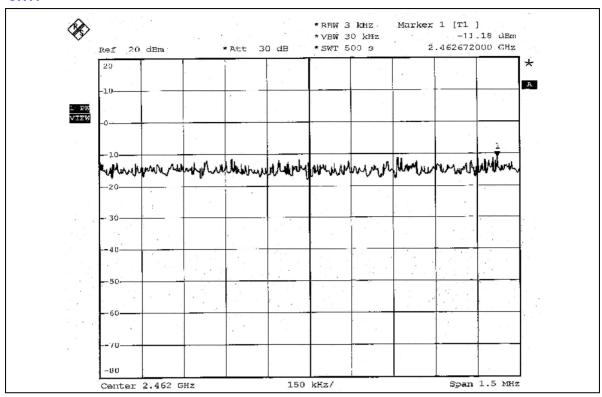


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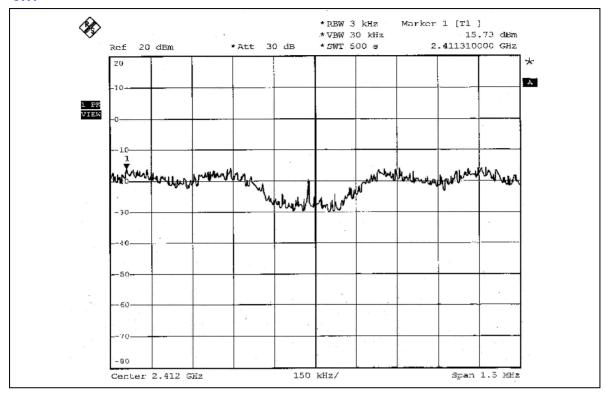
802.11g OFDM MODULATION

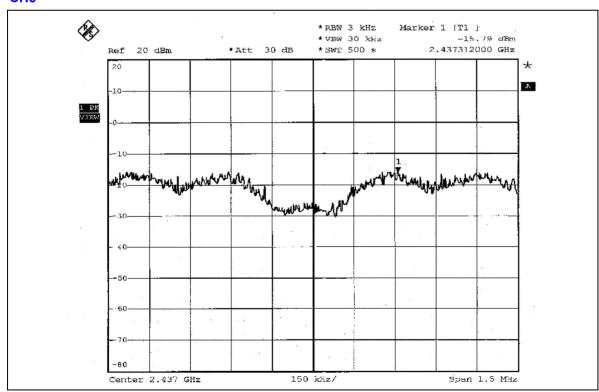
EUT	Mobile Bridge	MODEL	MB6000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-15.73	8	PASS
6	2437	-15.79	8	PASS
11	2462	-15.46	8	PASS

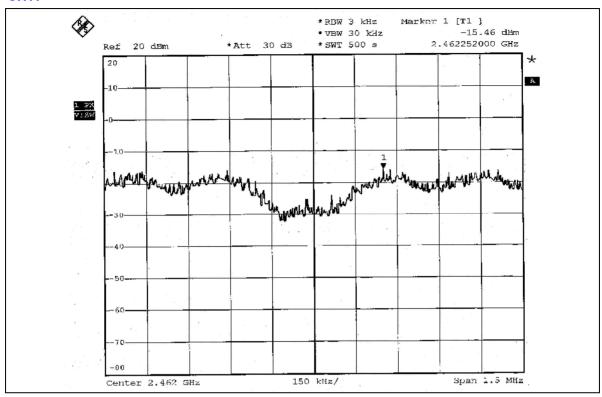


CH1











4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz; Average RBW=1MHz, VBW=1kHz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6



4.6.6 TEST RESULTS

The spectrum plots are attached on the following 12 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

802.11b DSSS MODULATION

NOTE 1:

The band edge emission plot on page 60 show 50.29 dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.06 dBuV/m (Peak), so the maximum field strength in restrict band is 109.06 - 50.29 = 58.77 dBuV/m, which is under 74 dBuV/m limit.

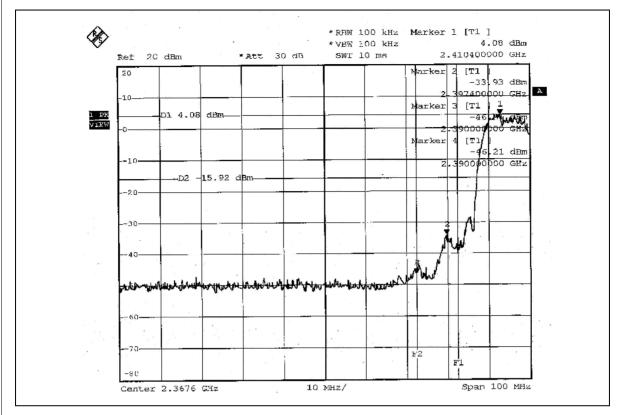
The band edge emission plot on page 60 show 54.96dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.46dBuV/m (Average), so the maximum field strength in restrict band is 101.46 – 54.96 = 46.50dBuV/m, which is under 54dBuV/m limit.

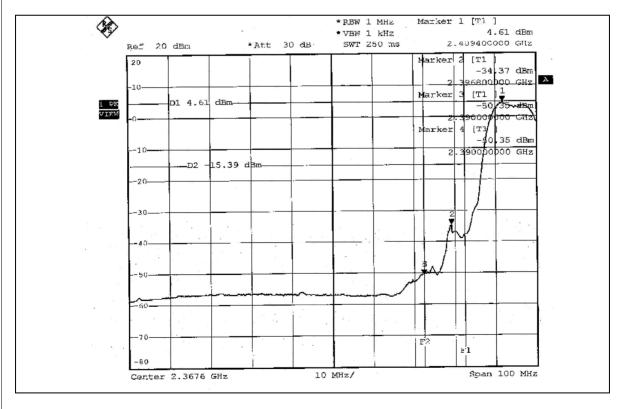
NOTE 2:

The band edge emission plot on the page 61 show 51.80dBc delta between carrier maximum power and local maximum emission in restrict band (2.4848GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.05dBuV/m (Peak), so the maximum field strength in restrict band is 109.05 – 51.80 = 57.25dBuV/m, which is under 74dBuV/m limit.

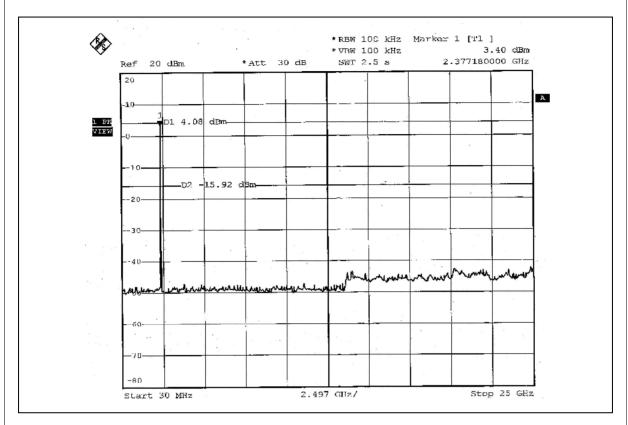
The band edge emission plot on the page 62 show 57.25dBc delta between carrier maximum power and local maximum emission in restrict band (2.4852GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.38dBuV/m (Average), so the maximum field strength in restrict band is 101.38 – 57.25 = 44.13dBuV/m, which is under 54dBuV/m limit.

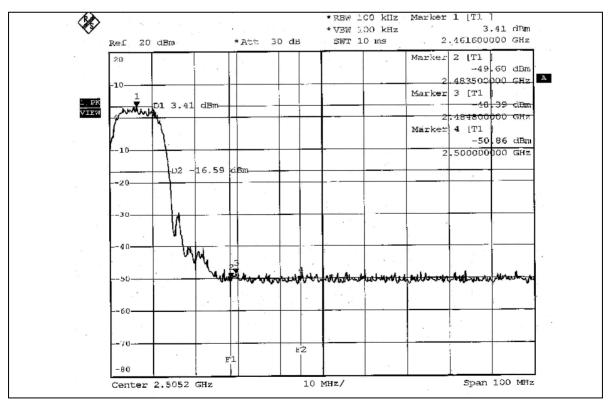




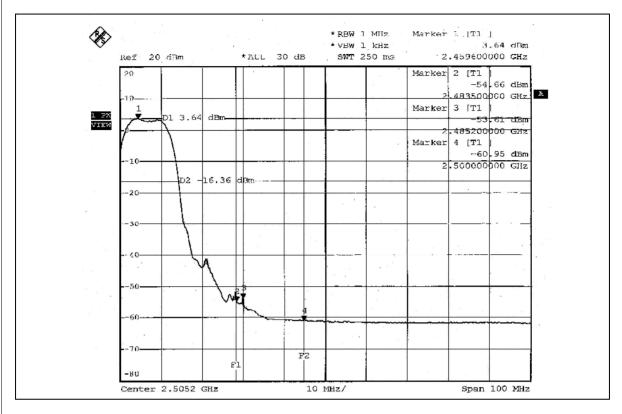


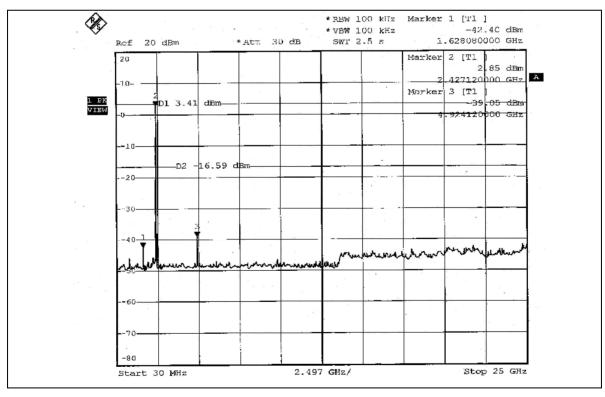














802.11g OFDM MODULATION

NOTE 1:

The band edge emission plot on page 64 show 44.58dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.92dBuV/m (Peak), so the maximum field strength in restrict band is 106.92 – 44.58 = 62.34dBuV/m, which is under 74dBuV/m limit.

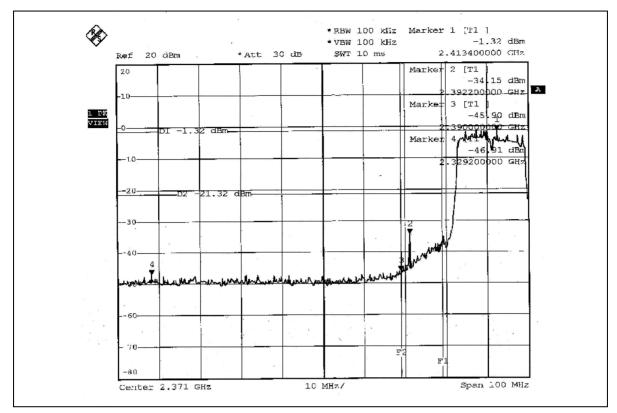
The band edge emission plot on page 64 show 49.73dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.46dBuV/m (Average), so the maximum field strength in restrict band is 99.46 – 49.73 = 49.73dBuV/m, which is under 54dBuV/m limit.

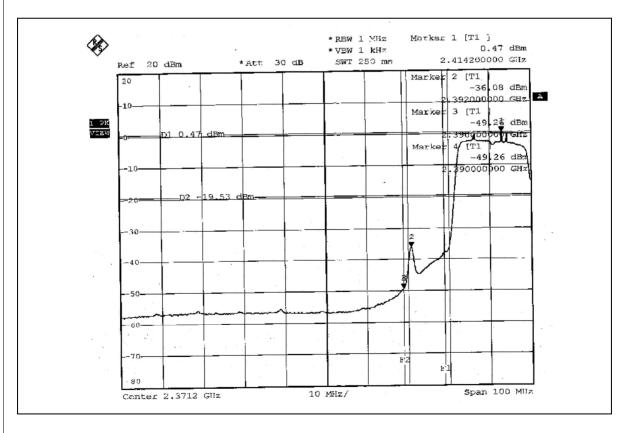
NOTE 2:

The band edge emission plot on the page 65 show 47.84dBc delta between carrier maximum power and local maximum emission in restrict band (2.4861GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 107.65dBuV/m (Peak), so the maximum field strength in restrict band is 107.65 – 47.84 = 59.81dBuV/m, which is under 74dBuV/m limit.

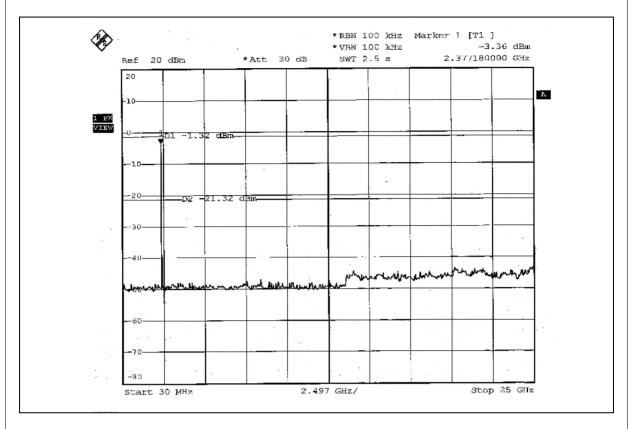
The band edge emission plot on the page 66 show 53.98dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 100.18dBuV/m (Average), so the maximum field strength in restrict band is 100.18 –53.98 = 46.20dBuV/m, which is under 54dBuV/m limit.

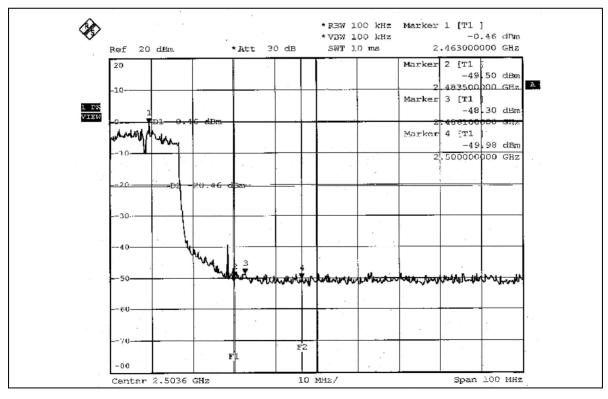




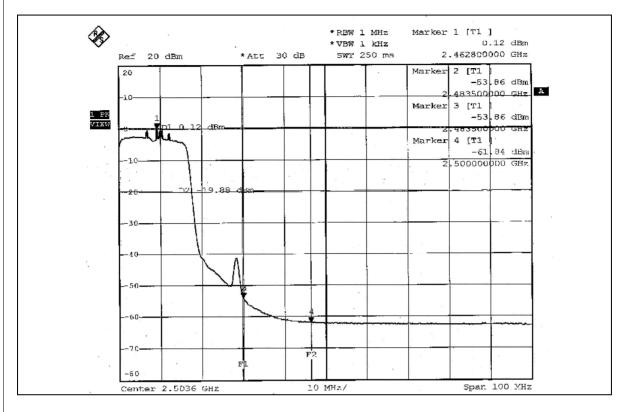


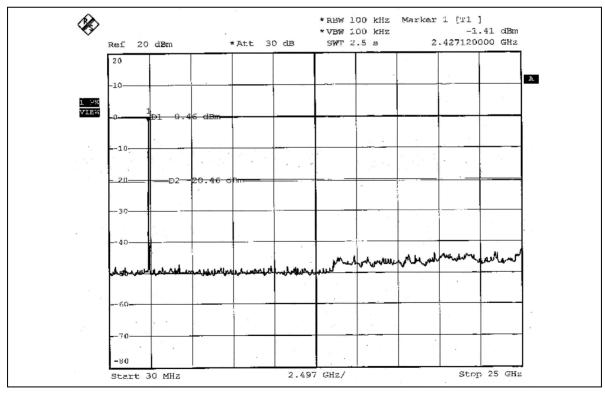














4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Dipole antenna with SMA connector, and is hidden inside the EUT housing. Maximum Gain is 2.52dBi.

The EUT used a kind of particular screw, which is not capable of being opened easily.



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

TEST MODE A







TEST MODE B

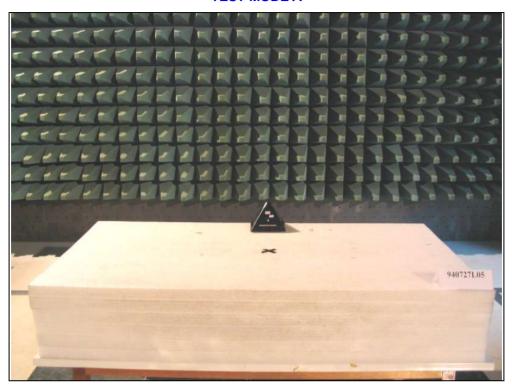


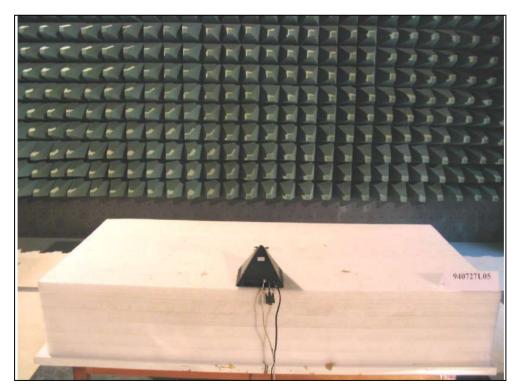




RADIATED EMISSION TEST

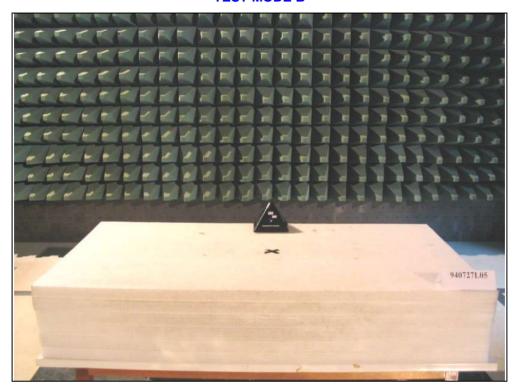
TEST MODE A

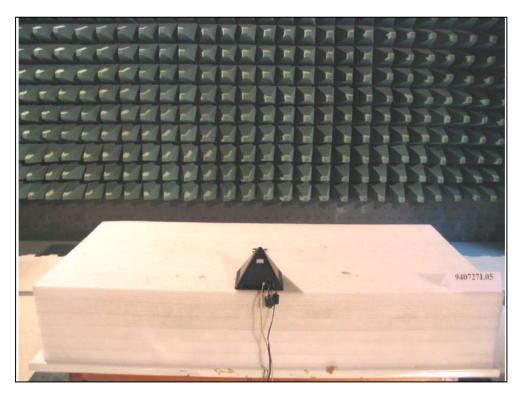






TEST MODE B







6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA FCC, NVLAP, UL, A2LA

Germany TUV Rheinland

Japan VCCI Norway NEMKO

Canada INDUSTRY CANADA, CSA

R.O.C. CNLA, BSMI, DGT

Netherlands Telefication

Singapore PSB, GOST-ASIA(MOU)

Russia CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

<u>www.adt.com.tw/index.5/phtml</u>. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26052943Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab: Linko RF Lab.

Tel: 886-3-3183232 Tel: 886-3-3270910 Fax: 886-3-3185050 Fax: 886-3-3270892

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also