

4.4 PEAK POWER EXCURSION MEASUREMENT

4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	13dB
5.25 – 5.35 GHz	13dB
5.725 – 5.825 GHz	13dB

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

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 PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer.
- 2. Set the spectrum bandwidth span to view the entire spectrum.
- 3. Using peak detector and Max-hold function for Trace 1 (RB=1MHz, VB=3MHz) and 2 (RB=1MHz, VB=300KHz).
- 4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



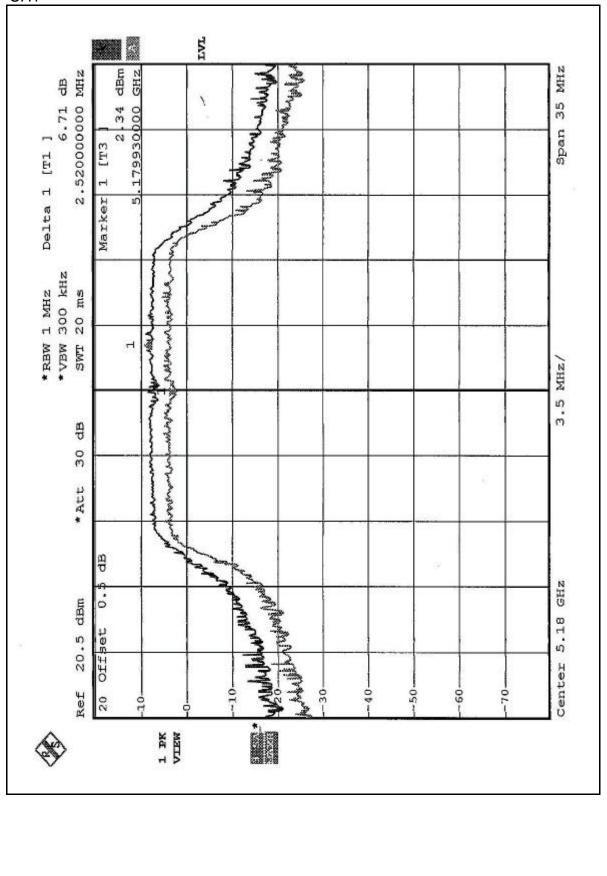
4.4.7 TEST RESULTS

EUT			MODEL INPUT POWER	_	WMIA-105A	
MODE	Normal		(SYSTEM)	(SYSTEM) 120Vac, 60 Hz		
ENVIRONMENT CONDITIONS	AL 24deg. 0 991hPa	C, 64%RH,	TESTED BY	Le	o Hung	
	CHANNE		R PEAK to			

CHANNEL	FREQUENCY (MHz)	EXCURSION (dB)	EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	6.71	13	PASS
4	5240	7.08	13	PASS
5	5260	7.61	13	PASS
8	5320	6.66	13	PASS

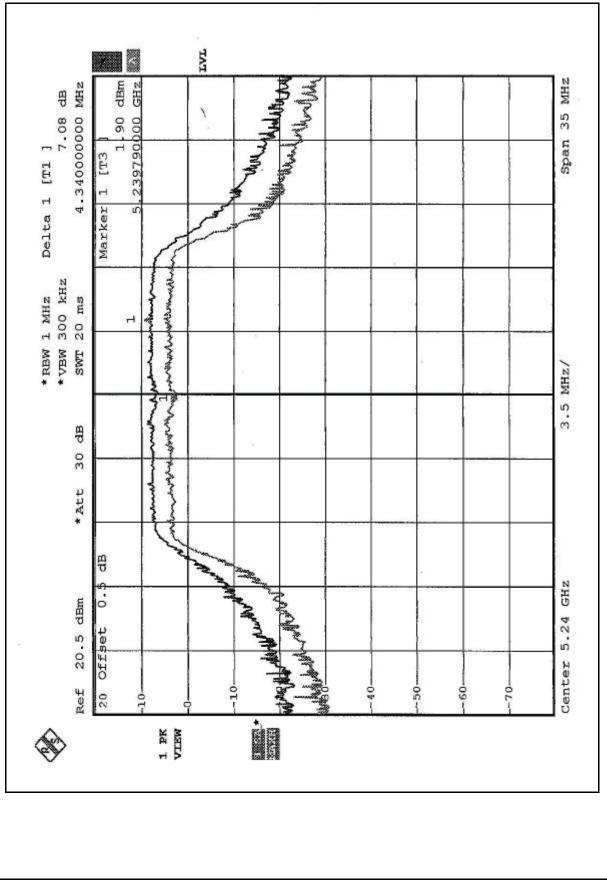


CH1

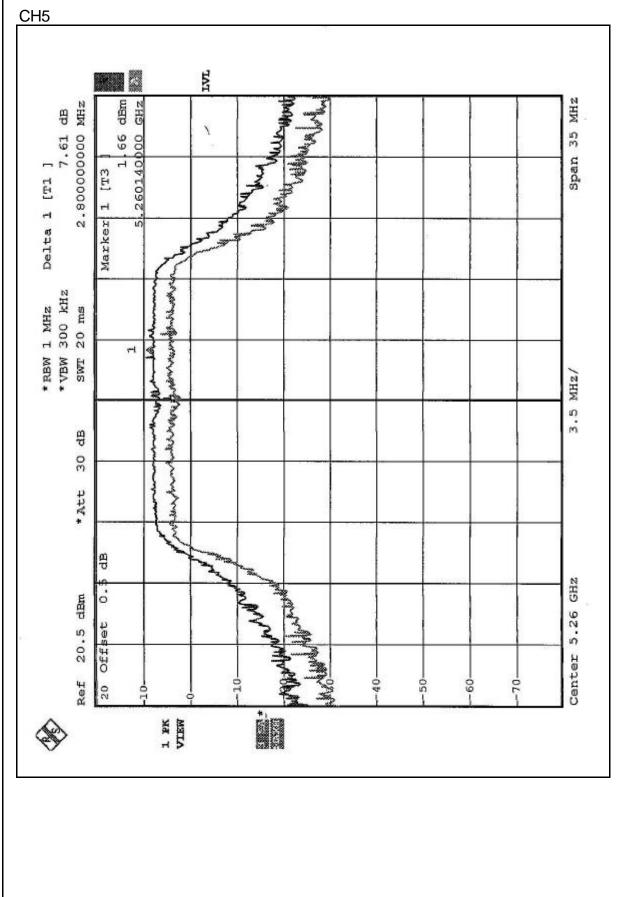




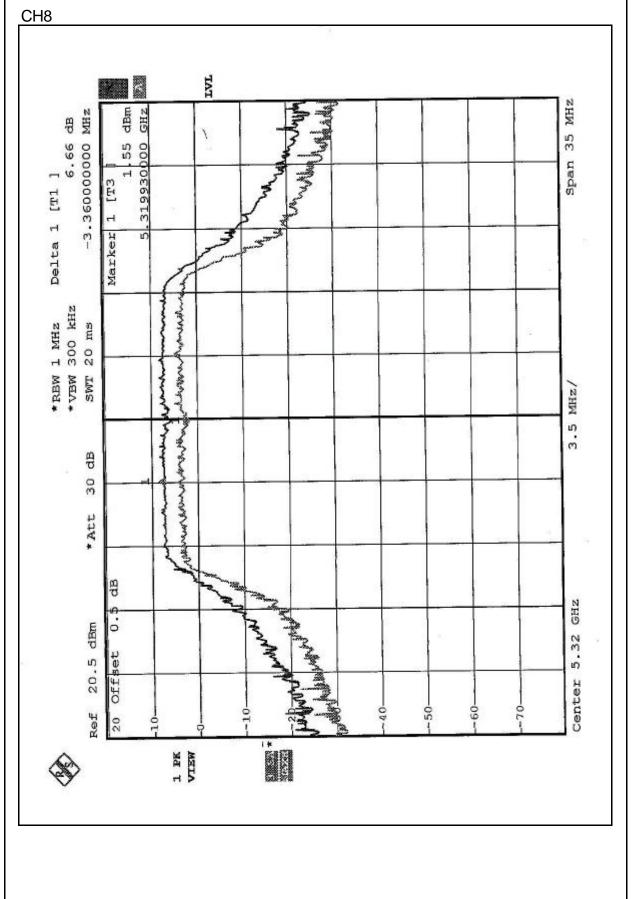
CH4









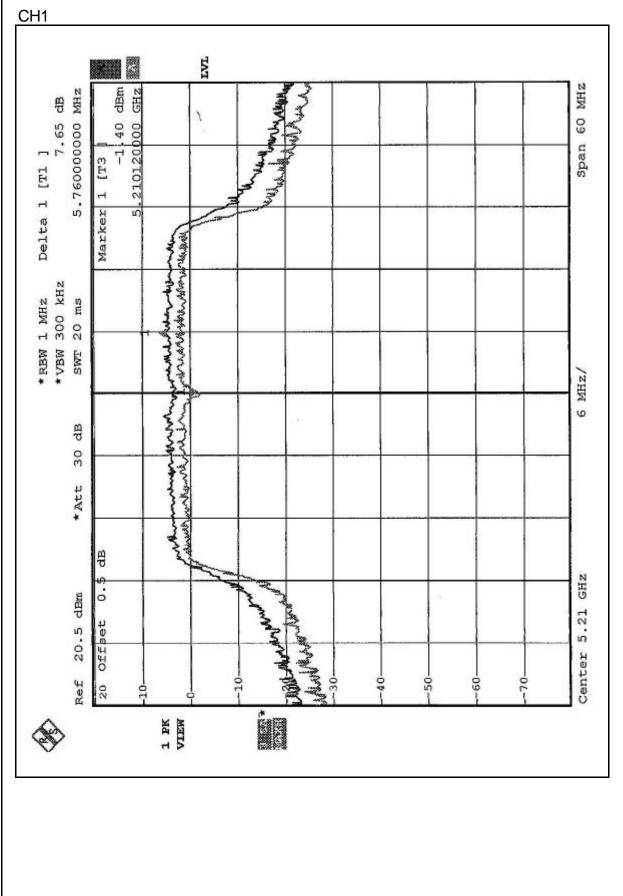




EUT	802.11a mini-PCI Module	MODEL	WMIA-105A
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5210	7.65	13	PASS
2	5250	7.25	13	PASS
3	5290	6.52	13	PASS





CH2



INI 14 dBm GHZ 5.640000000 MHz Span 60 MHz Delta 1 [T1] 7.25 dB Mundal and ١ 53 5.249880000 11-Marker 1 [T3 かんていてい ちゃくろうろうくろう うていてく * VBW 300 kHz * RBW I MHZ 20 ms IMS ž MHZ/ LAN wate we we want 6 30 dB 2 *Att 3 123 ş щ 9.0 5.25 GHz 20.5 dBm Offset Center -01--Ref 20 -- 50-40. -60-20 -10 * VIEW



CH3 INT 0 dBm 6.52 dB 9.840000000 MHz 5.289880000 GHZ Span 60 MHz ١ 87 0 -Marker 1 [T3 Delta 1 [T1 * VBW 300 kHz No. *RBW 1 MHZ 20 ms 1 mars ~ Male was IMS 6 MHz/ ていって dB 30 していい * Att Conner **B** 9. 0 GHZ 20.5 dBm 5.29 Offset Center Ref 20 -20--10 40 -50--09 01-+ 112113 1 PK VIEW 10.00



4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Frequency Band	Limit
5.15 – 5.25GHz	4dBm
5.25 – 5.35GHz	11dBm
5.725 – 5.825GHz	17dBm

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

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 PROCEDURES

- 1. The transmitter output was connected to the spectrum analyzer.
- 2. Set RBW=1MHz, VBW=3MHz. The PPSD is the highest level found across the emission in any 1MHz band.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



4.5.7 TEST RESULTS

EUT	802.11a mini-PCI Module	MODEL	WMIA-105A
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5180	-1.33	4	PASS
4	5240	-1.20	4	PASS
5	5260	-1.67	11	PASS
8	5320	-1.09	11	PASS



Span 35 MHz

3.5 MHz/

Center 5.18 GHz

-09

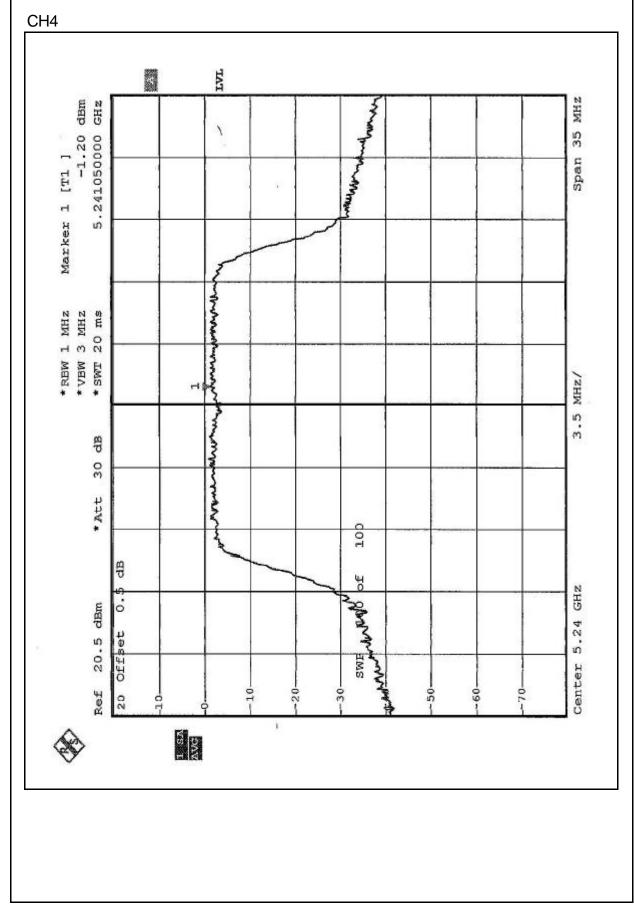
-10-

INT --1.33 dBm 5.181680000 GHz ١ Marker 1 [T1] ~~~~~ 20 ms *RBW 1 MHz * VBW 3 MHZ No. * SWT H ş www.www.www dB 30 *Att TOD dB ¥ 9.0 100 Ref 20.5 dBm Offset And we have -50--30--10--20. 20 40 OL 1 1 SA AVG

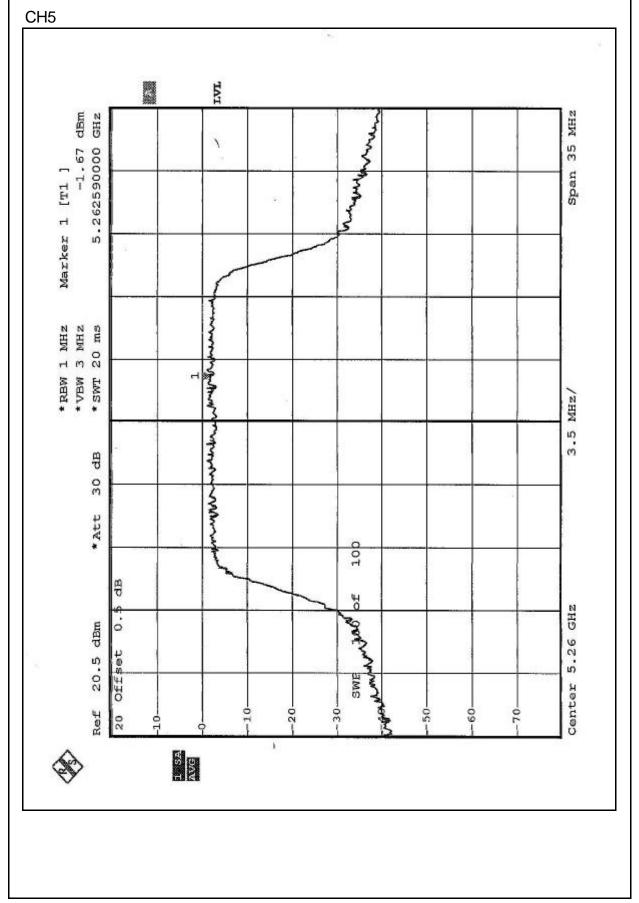
CH1

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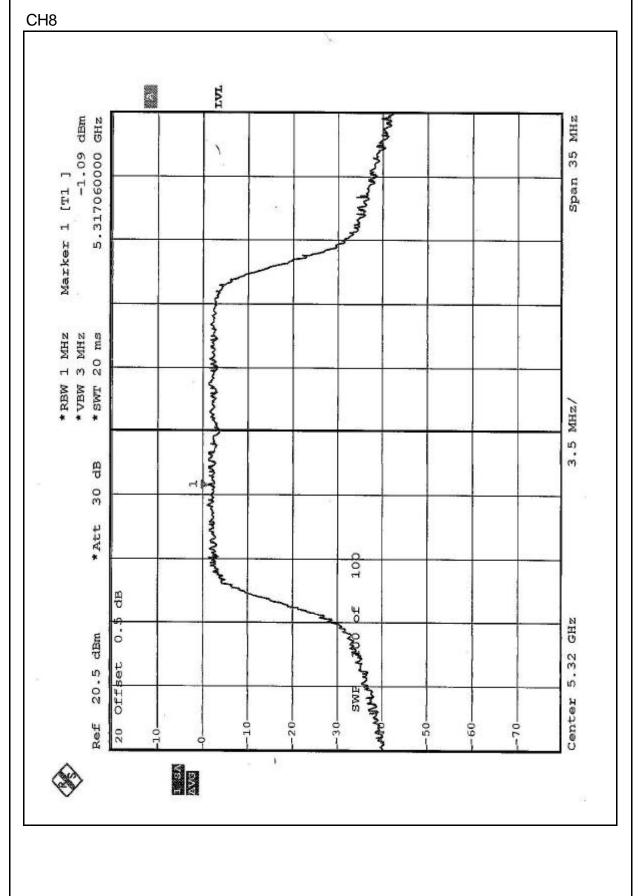












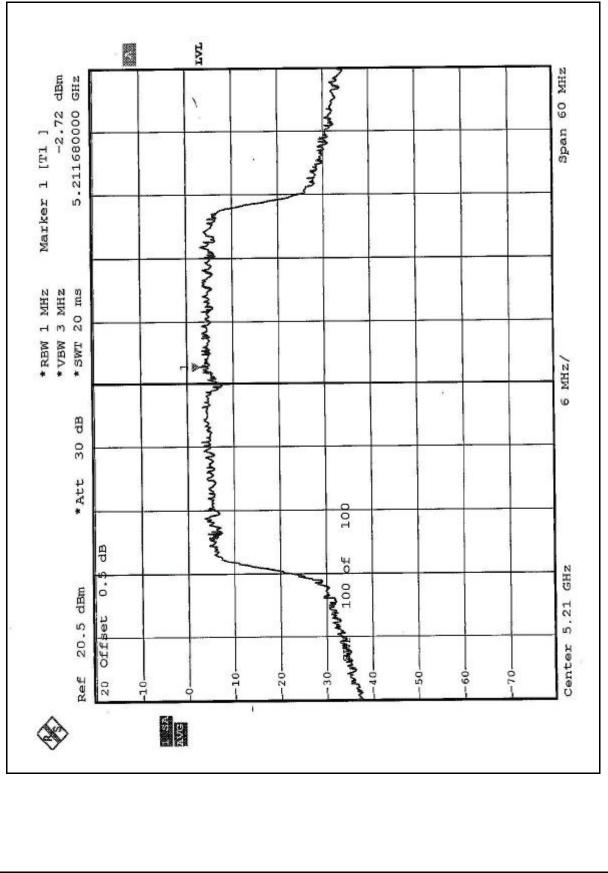


EUT	802.11a mini-PCI Module	MODEL	WMIA-105A
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5210	-2.72	4	PASS
2	5250	-2.91	4	PASS
3	5290	-2.64	11	PASS

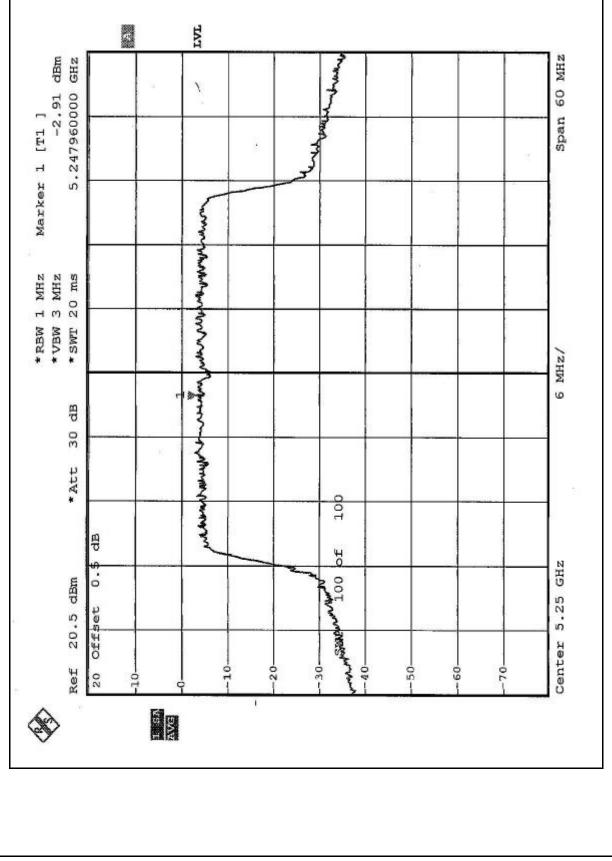


CH1



CH2







CH3 LVL 60 MHz GHZ -2.64 dBm ١ 5.294920000 Marker 1 [T1] Span ł 3 ware warman *RBW 1 MHz *VBW 3 MHz *SWT 20 ms 6 MHz/ Reserver Stream Southand dB 30 * Att TOD dB 40 Center 5.29 GHz 0.5 100 20.5 dBm Offset Ame Ann Ref -01---09--10 -20--30--50--40-20 OL 1 T SA