



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
ROHDE&SCHWARZ SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

2. 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 and 2 with proper resolution bandwidth setting.
- 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.

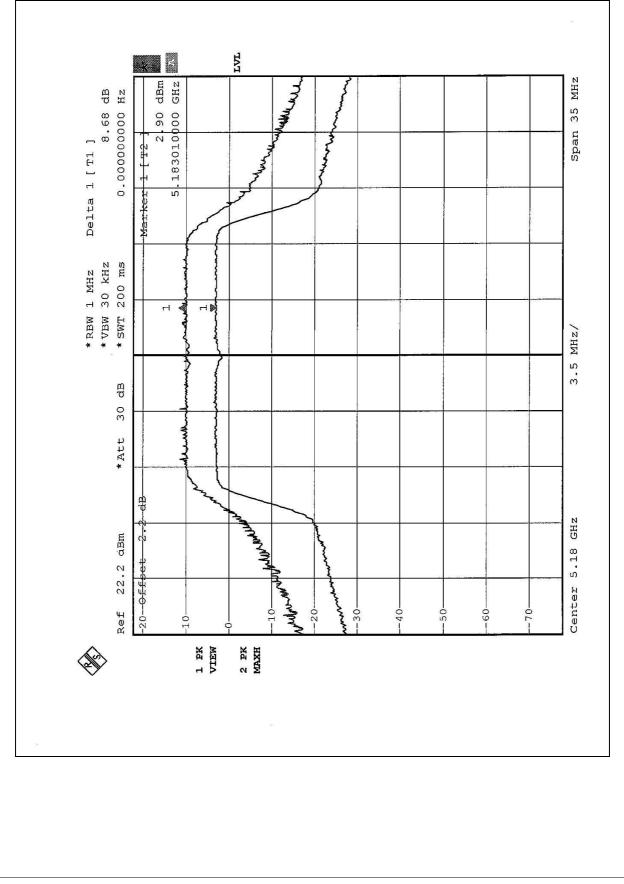


4.4.7 TEST RESULTS

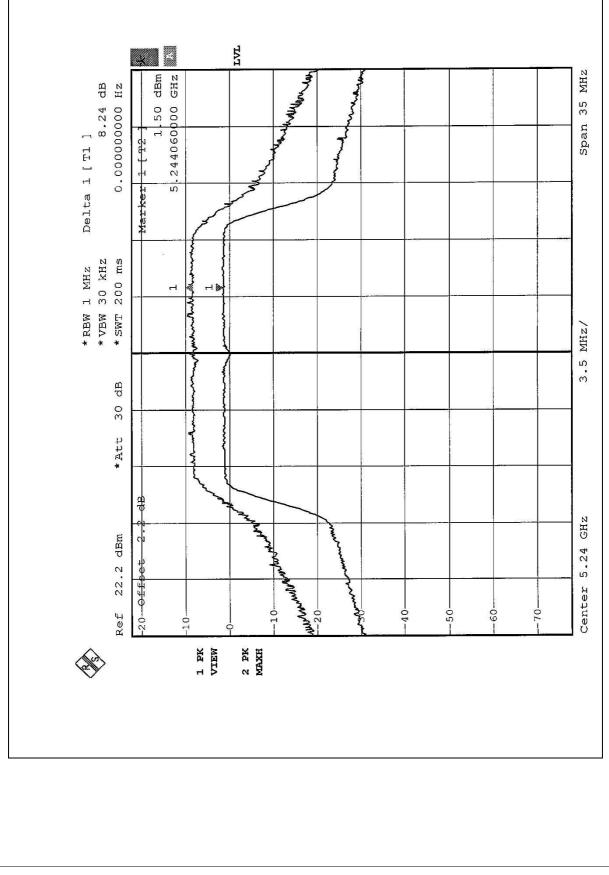
EUT	Wireless 54Mbps MiniPCI Card	MODEL	GL5054MP-AA0
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	8.68	13	PASS
4	5240	8.24	13	PASS
5	5260	8.01	13	PASS
8	5320	8.35	13	PASS
9	5745	8.19	13	PASS
12	5805	8.43	13	PASS





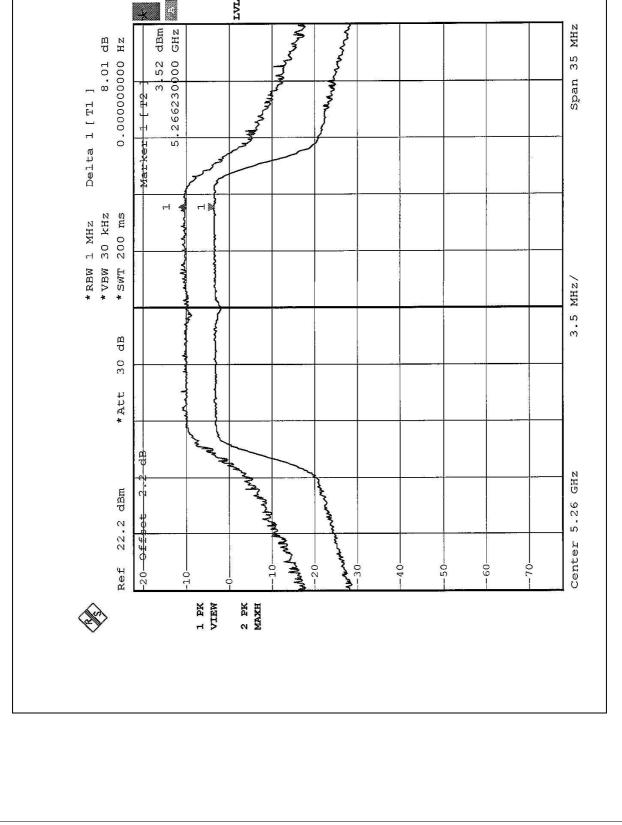




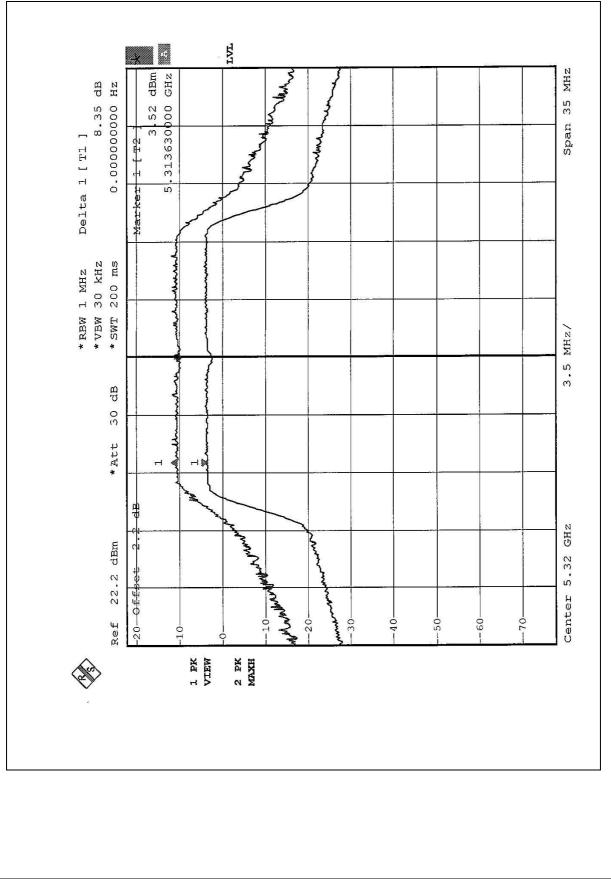
CHANNEL 5



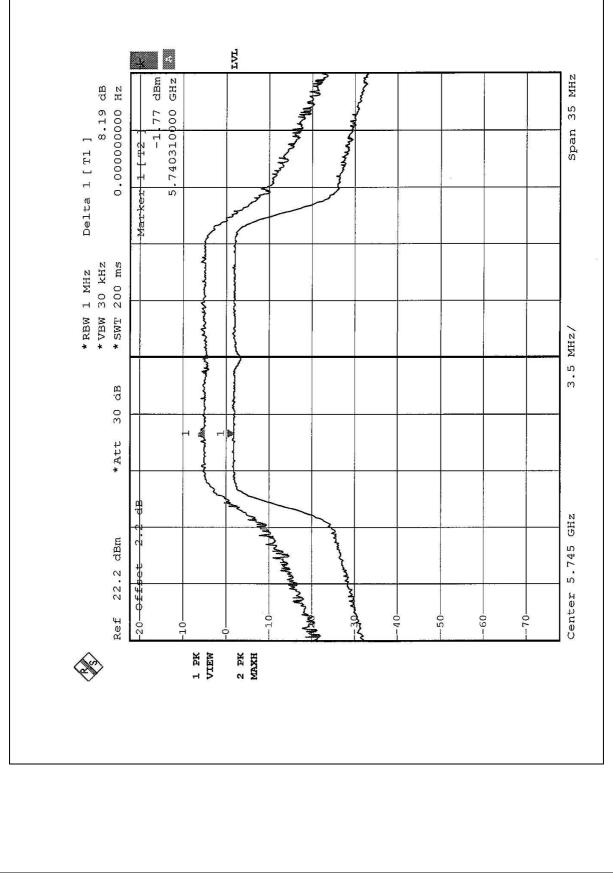
ГЛ dBm GHz 8.01 dB 00000 Hz



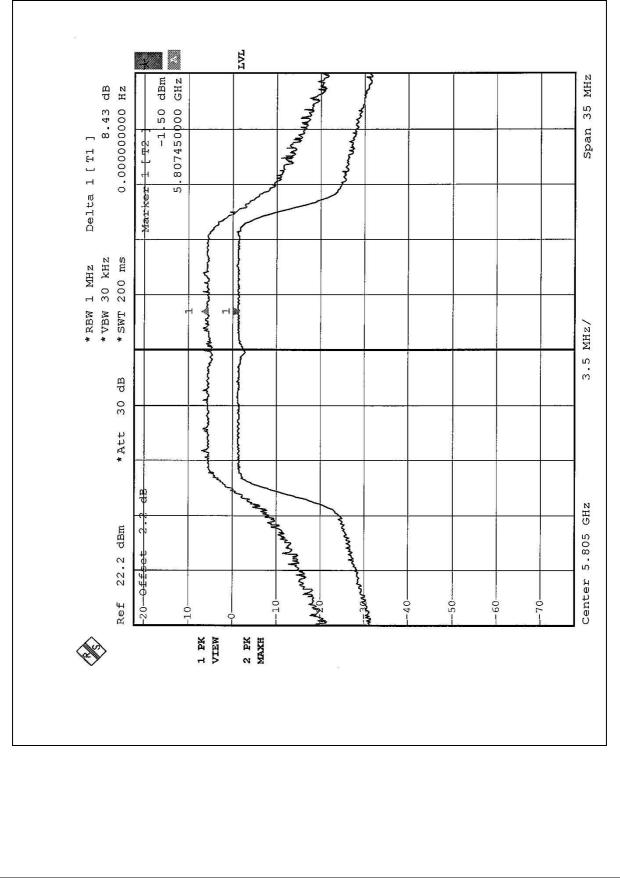














EUT	Vireless 54Mbps MiniPCI Card MODEL		GL5054MP-AA0
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dBm)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5210	8.73	13	PASS
2	5250	8.68	13	PASS
3	5290	8.49	13	PASS
4	5760	8.50	13	PASS
5	5800	8.56	13	PASS

CHANNEL 1



MHZ

60

Span

MHZ/

6

GHZ

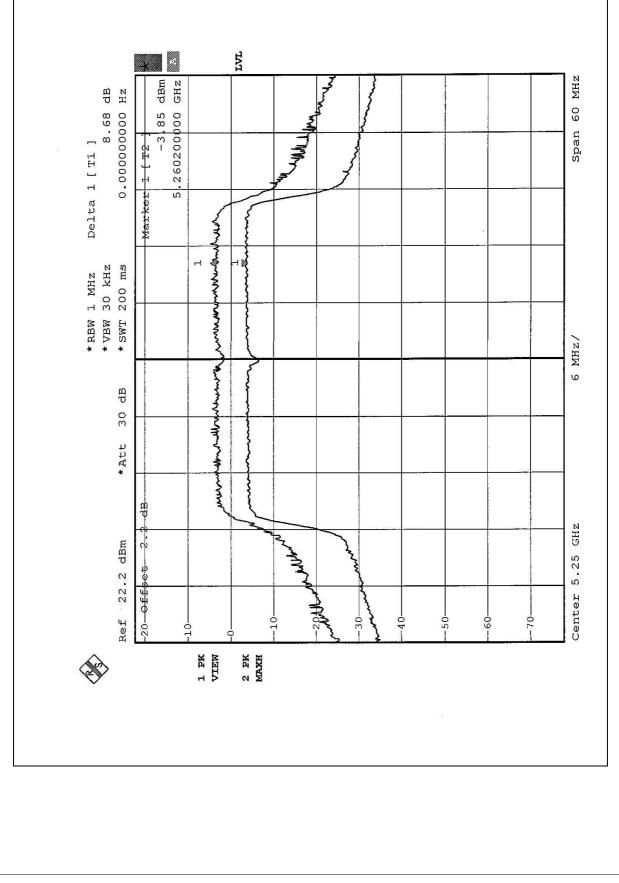
5.21

Center

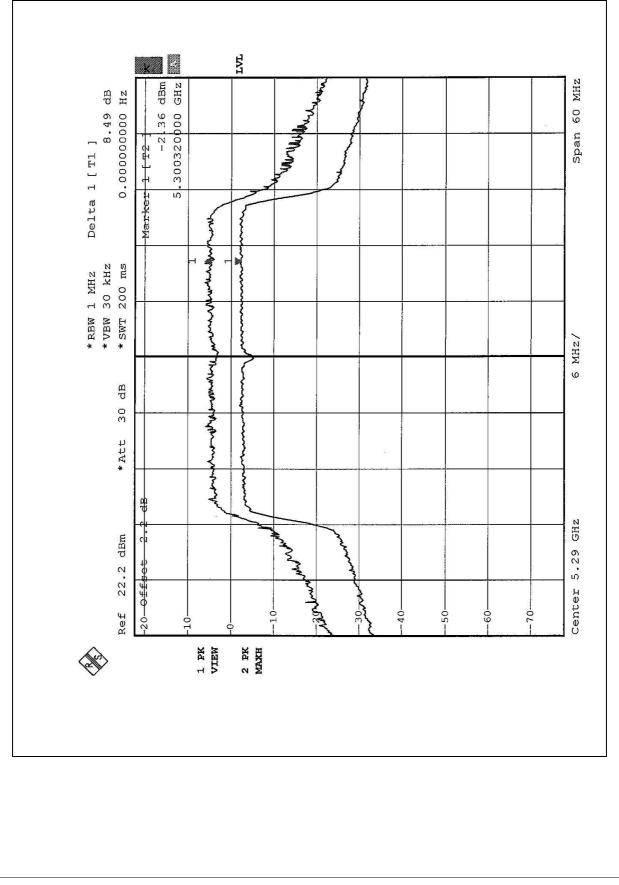
LVL A S dBm GHZ Delta 1 [T1] 8.73 dB 0.00000000 Hz -3.70 c - THIN Marker 1 [T2 Montraman * VBW 30 kHz * SWT 200 ms *RBW 1 MHz くくくろう wwwwww dB 30 Н *Att 3 d B à 22.2 dBm -20-0ffset Ref -30--07--50--40--10 -201 10 1 PK VIEW 2 PK MAXH

Report No.: RF910807R01

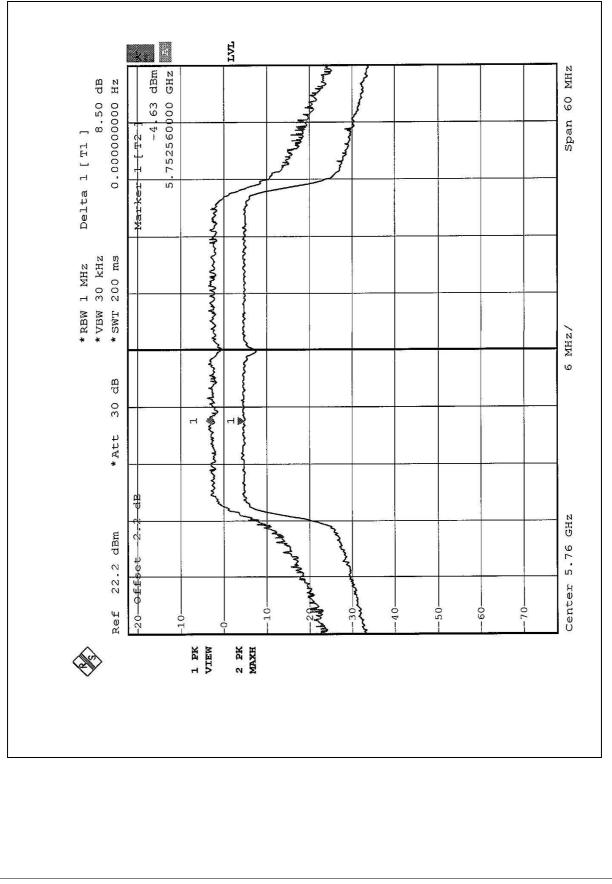




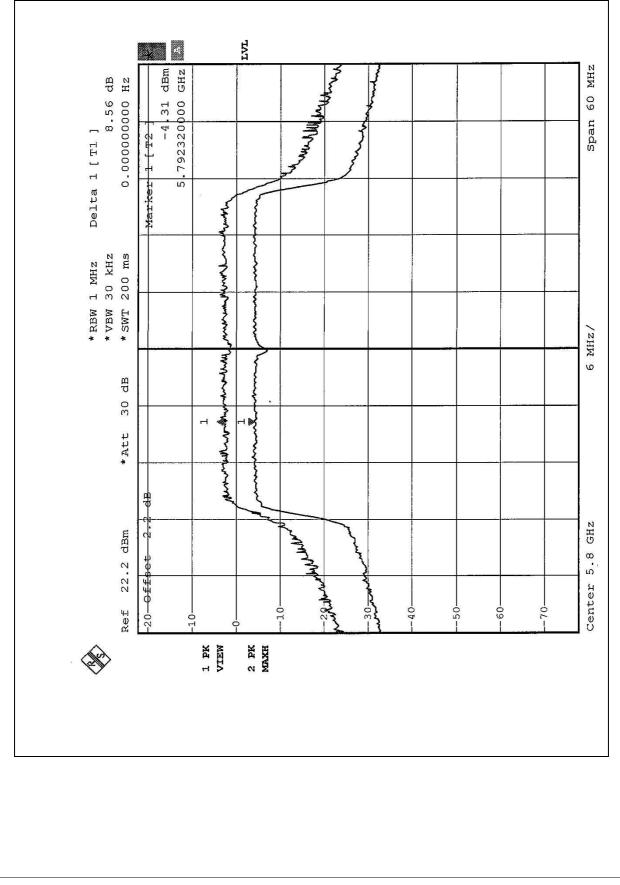














4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

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

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE&SCHWARZ SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE:

- 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2. 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 can be found.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.5

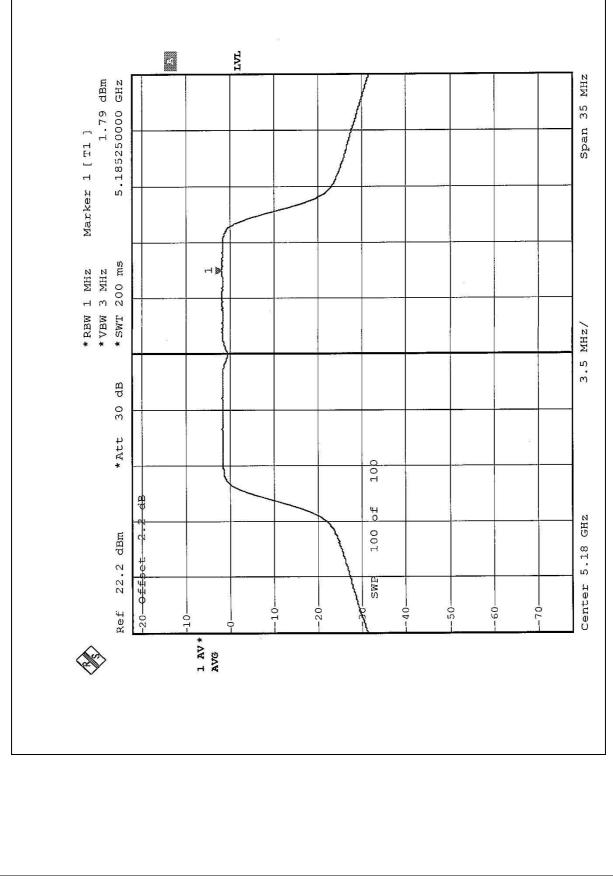


4.5.7 TEST RESULTS

EUT	Wireless 54Mbps MiniPCI Card	MODEL	GL5054MP-AA0
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	TESTED BY	Steven Lu

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5180	1.79	4	PASS
4	5240	0.16	4	PASS
5	5260	1.98	11	PASS
8	5320	2.11	11	PASS
9	5745	-2.91	17	PASS
12	5805	-2.57	17	PASS





CHANNEL 4



цЧ Span 35 MHz 0.16 dBm 5.245600000 GHz Marker 1 [T1] . *VBW 3 MHz *SWT 200 ms сl 🐌 *RBW 1 MHz 3.5 MHz/ dB 30 *Att 100 ц ф οĘ GHZ 100 22.2 dBm ch' Center 5.24 -20-0££\$et SWP Ref --20--09--01--110-30-40--50--10-1 AV * AVG

CHANNEL 5



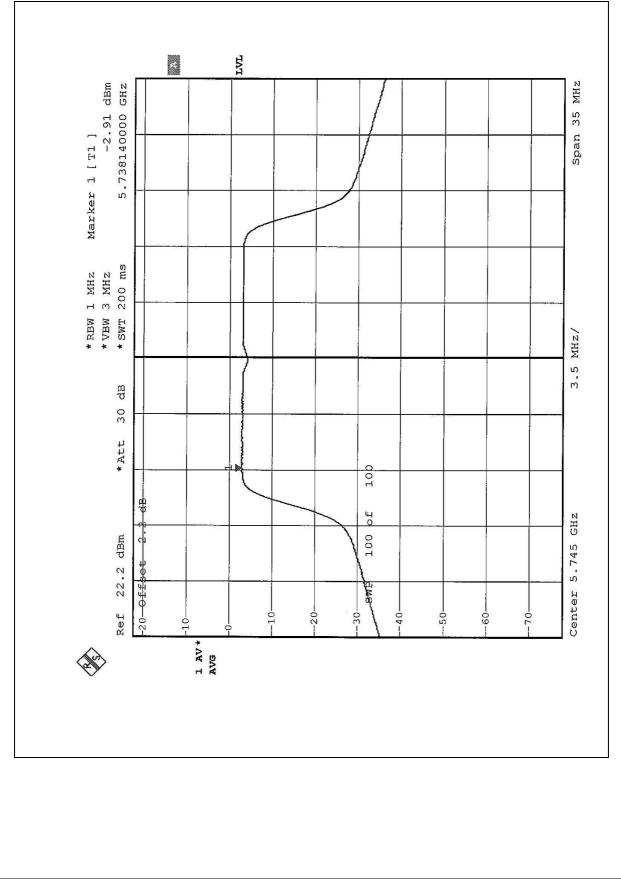
Ľ 6 35 MHz 1.98 dBm 5.265460000 GHz Span Marker 1 [T1] *RBW 1 MHz *VBW 3 MHz *SWT 200 ms щ н, 3.5 MHz/ dB 30 *Att 100 9 οf Center 5.26 GHz 100 3 22.2 dBm -20-0££\$et SWP Ref -20--01--10 -40d c -10-1 AV * AVG X

CHANNEL 8

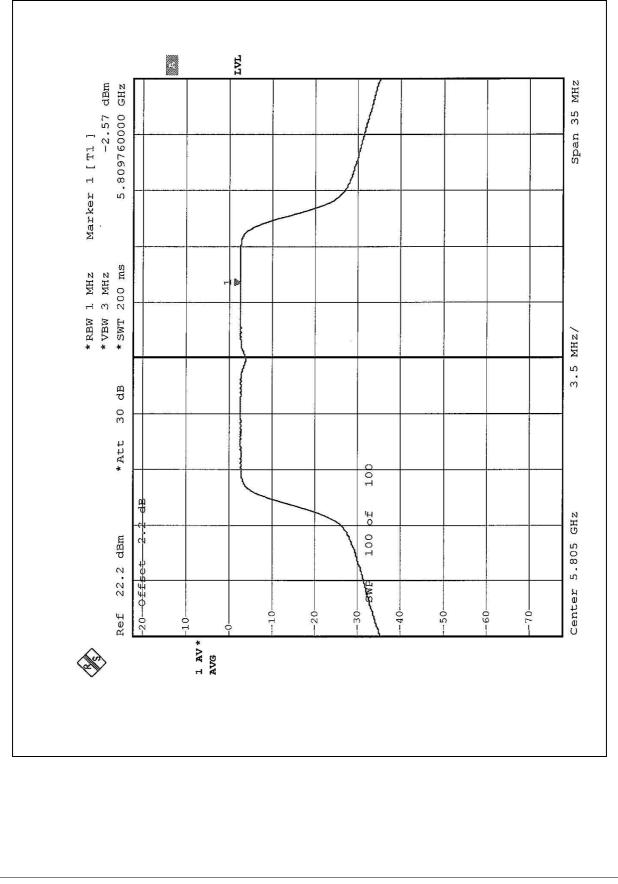


LVL 2.11 dBm 5.325600000 GHz Span 35 MHz Marker 1 [T1] *RBW 1 MHz *VBW 3 MHz *SWT 200 ms 3.5 MHz/ dB 30 *Att 100 8 Ч Q Center 5.32 GHz -20-0ffbet 2.2 100 22.2 dBm SWP Ref -10--20-40--50--09--01 -10ł 1 AV * AVG











EUT	Wireless 54Mbps MiniPCI Card		GL5054MP-AA0
MODE	Turbo		120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	TESTED BY	Steven Lu

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5210	-4.95	4	PASS
2	5250	-4.55	4	PASS
3	5290	-3.74	11	PASS
4	5760	-5.60	17	PASS
5	5800	-5.39	17	PASS

CHANNEL 1



Span 60 MHz

6 MHz/

GHZ

Center 5.21

цЧ -4.95 dBm 5.220800000 GHz Marker 1 [T1] н≫ *RBW 1 MHz *VBW 3 MHz *SWT 200 ms dB 30 *Att 100 d b ЧO 100 ch. 22.2 dBm -20-Offpet SIL Ref --20--50--09--10-30--40--01--10-I AV * AVG

CHANNEL 2



Span 60 MHz

6 MHz/

Center 5.25 GHz

ГД ... -4.55 dBm 5.262600000 GHz Marker 1 [T1] *RBW 1 MHz *VBW 3 MHz *SWT 200 ms ÷ dB 30 *Att 100 0B Ч 100 di 22.2 dBm -20-0££\$et SWP Ref -70--10--30--50--20--40-01 1 AV * AVG



CHANNEL 3 171 Span 60 MHz -3.74 dBm 5.299960000 GHz Marker 1 [T1] *REW 1 MHZ *VBW 3 MHZ *SWT 200 ms 6 MHz/ dB 30 *Att 100 d B οf GHZ 100 -20-0ffþet 2. 22.2 dBm Center 5.29 NAS. Ref -20--30--50--- 60--01--10--40-10-1 AV * AVG