

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
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2005

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 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

Same as 4.3.6



4.5.7 TEST RESULTS (Mode 1)

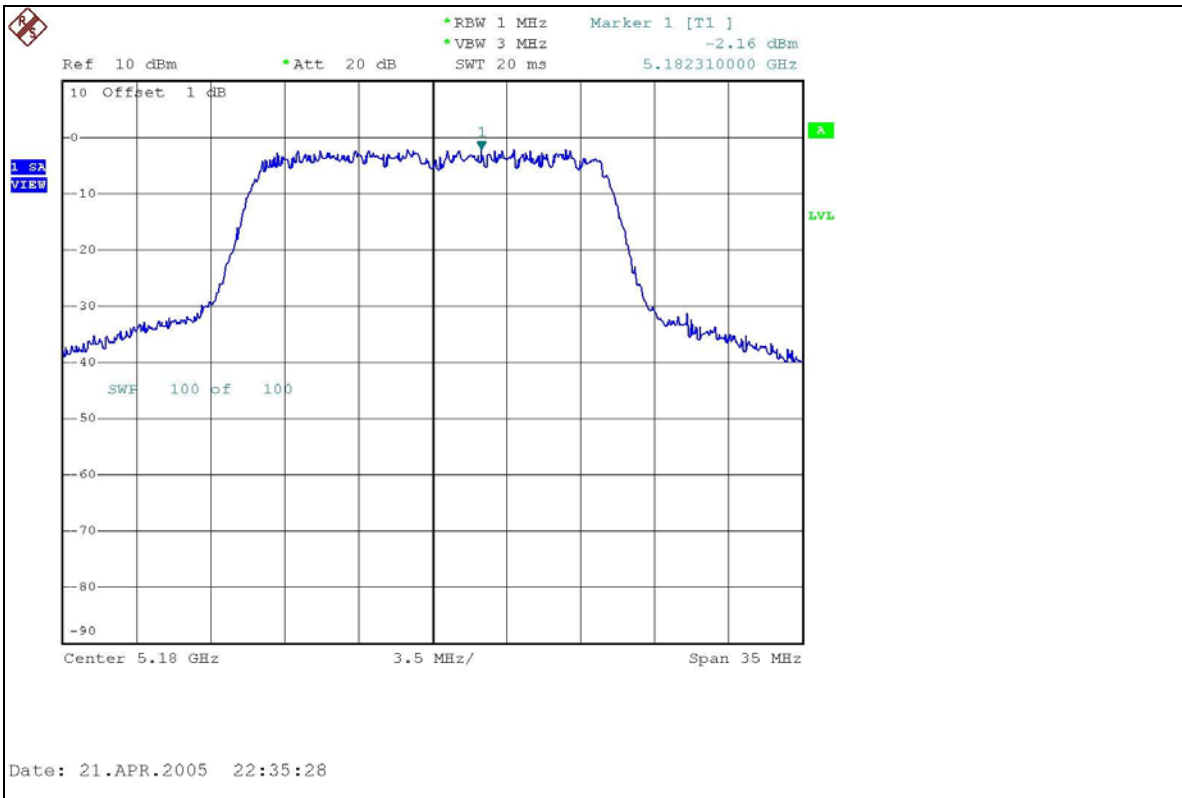
802.11a OFDM modulation

EUT	Bridging kit - 802.11a	MODEL	WL-464
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 62%RH, 960hPa
TESTED BY	Rex Huang		

Antenna 1 (Gain : 8 dBi) +Cable loss (1.2dB)

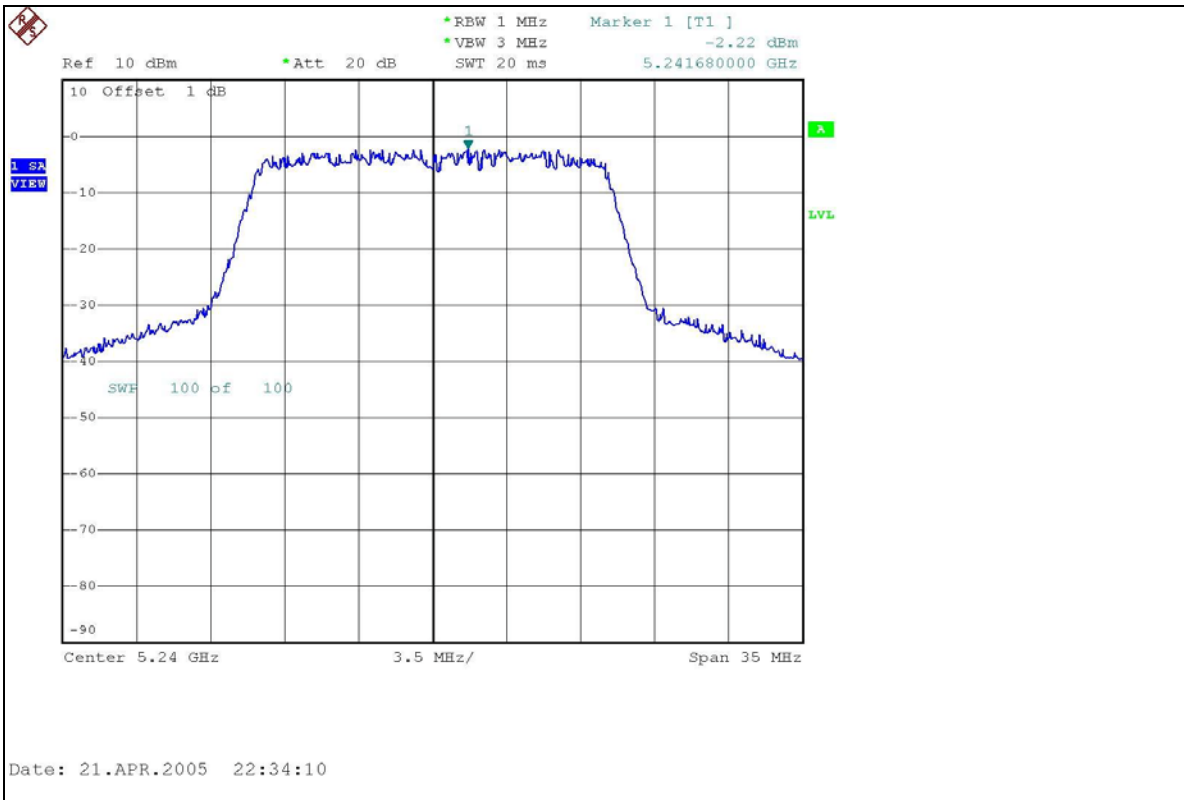
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5180	-2.16	3.2	PASS
4	5240	-2.22	3.2	PASS
5	5260	4.41	10.2	PASS
8	5320	2.96	10.2	PASS

CH1

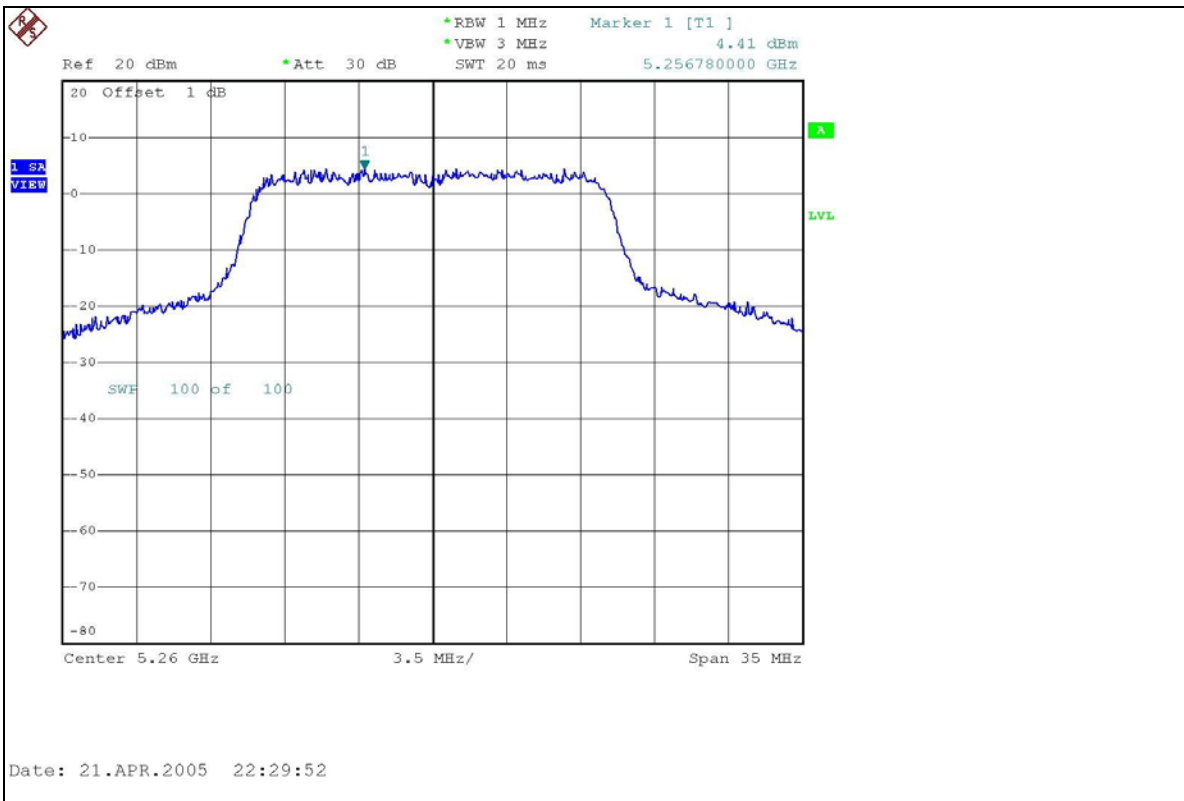




CH4

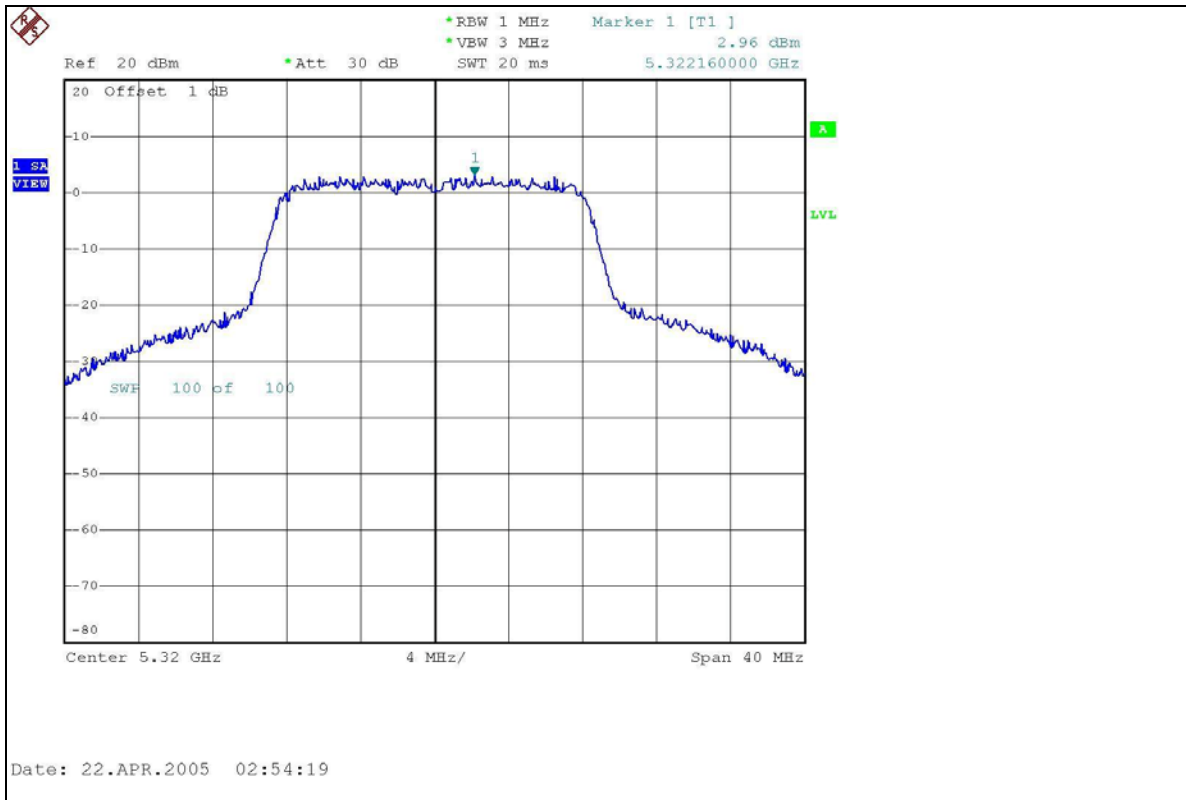


CH5





CH8





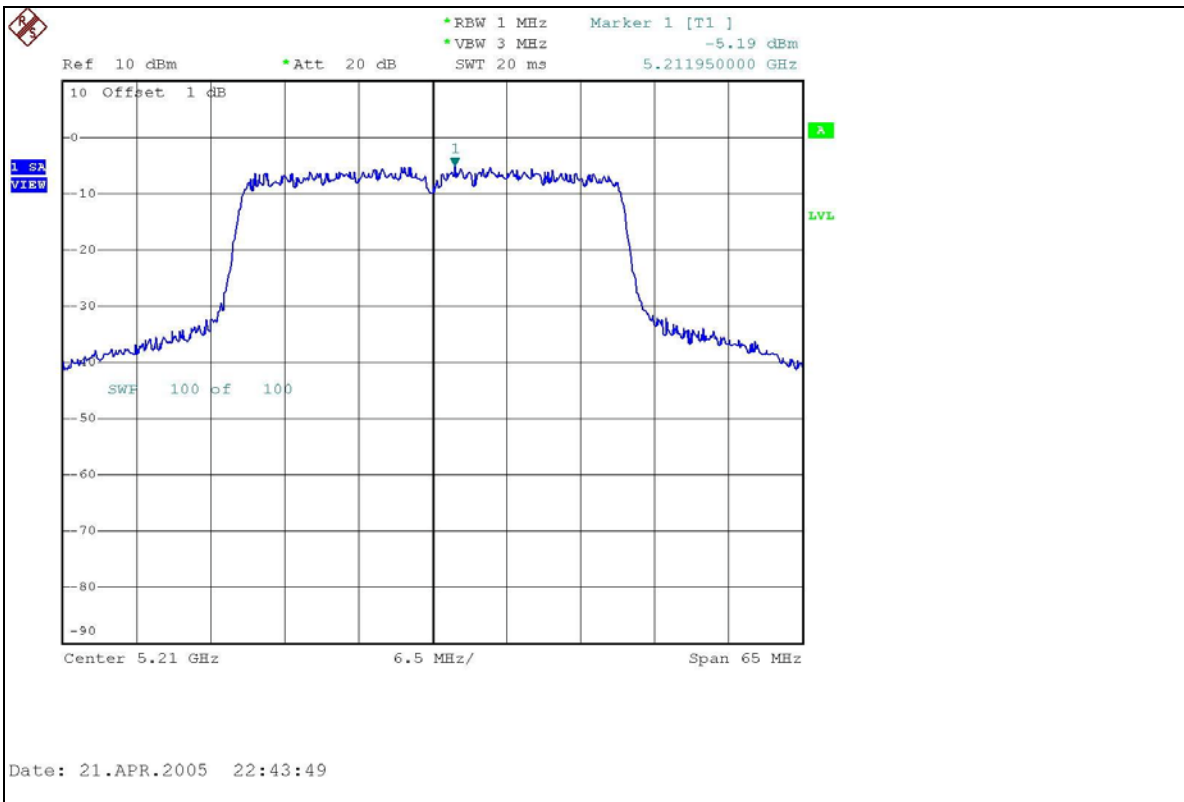
802.11a Turbo OFDM modulation

EUT	Bridging kit - 802.11a	MODEL	WL-464
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 62%RH, 960hPa
TESTED BY	Rex Huang		

Antenna 1 (Gain : 8 dBi) +Cable loss (1.2dB)

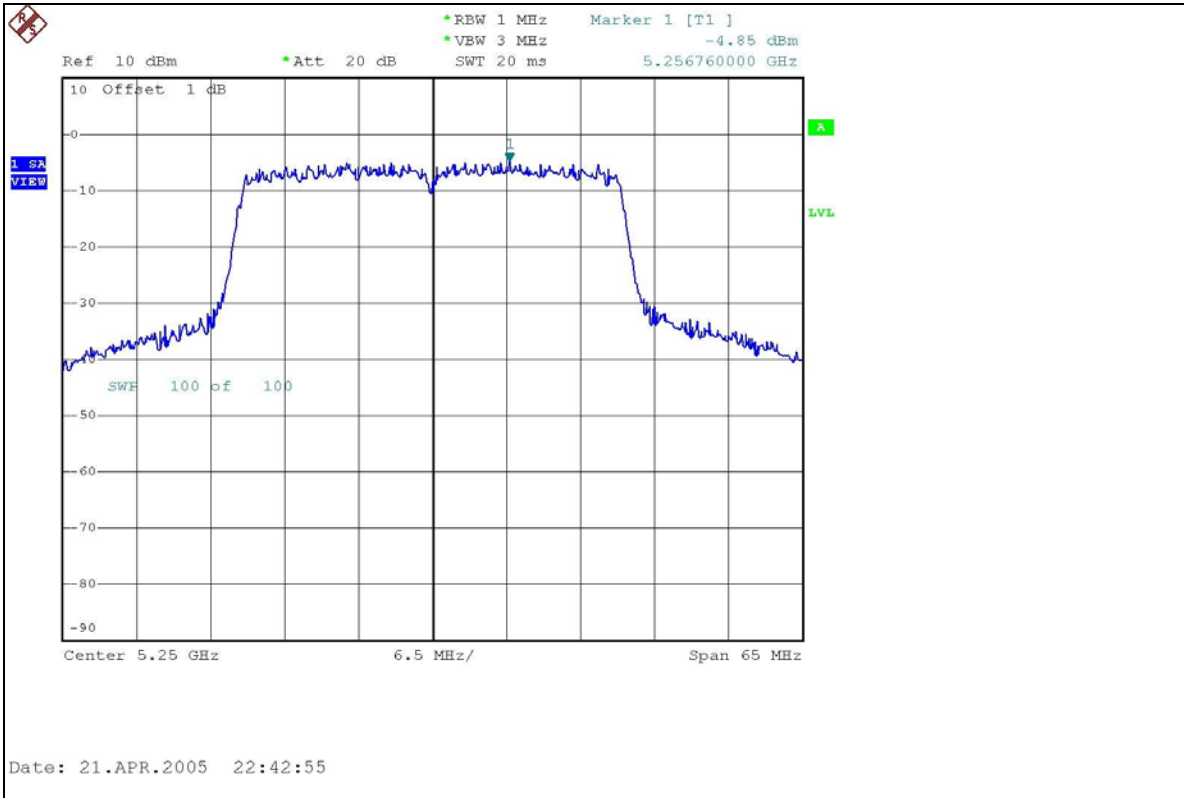
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5210	-5.19	3.2	PASS
2	5250	-4.85	3.2	PASS
3	5290	0.48	10.2	PASS

CH1

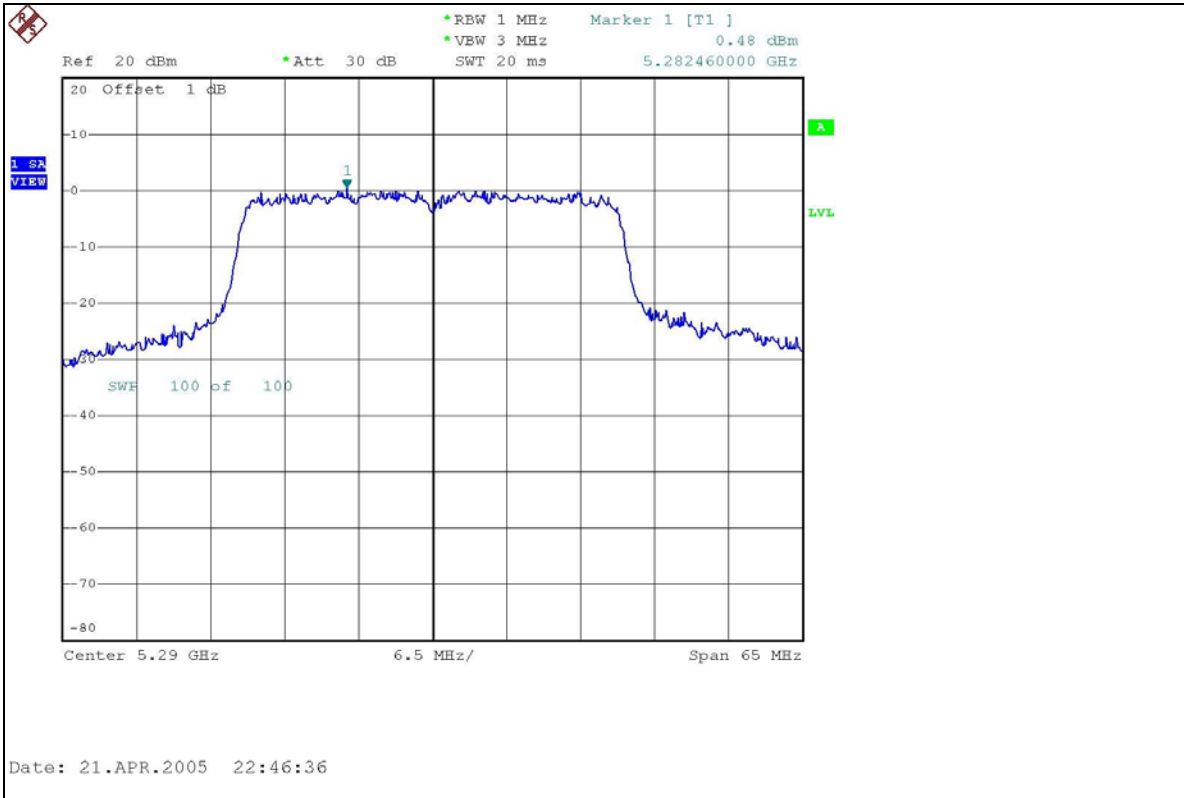




CH2



CH3





4.5.8 TEST RESULTS (Mode 2)

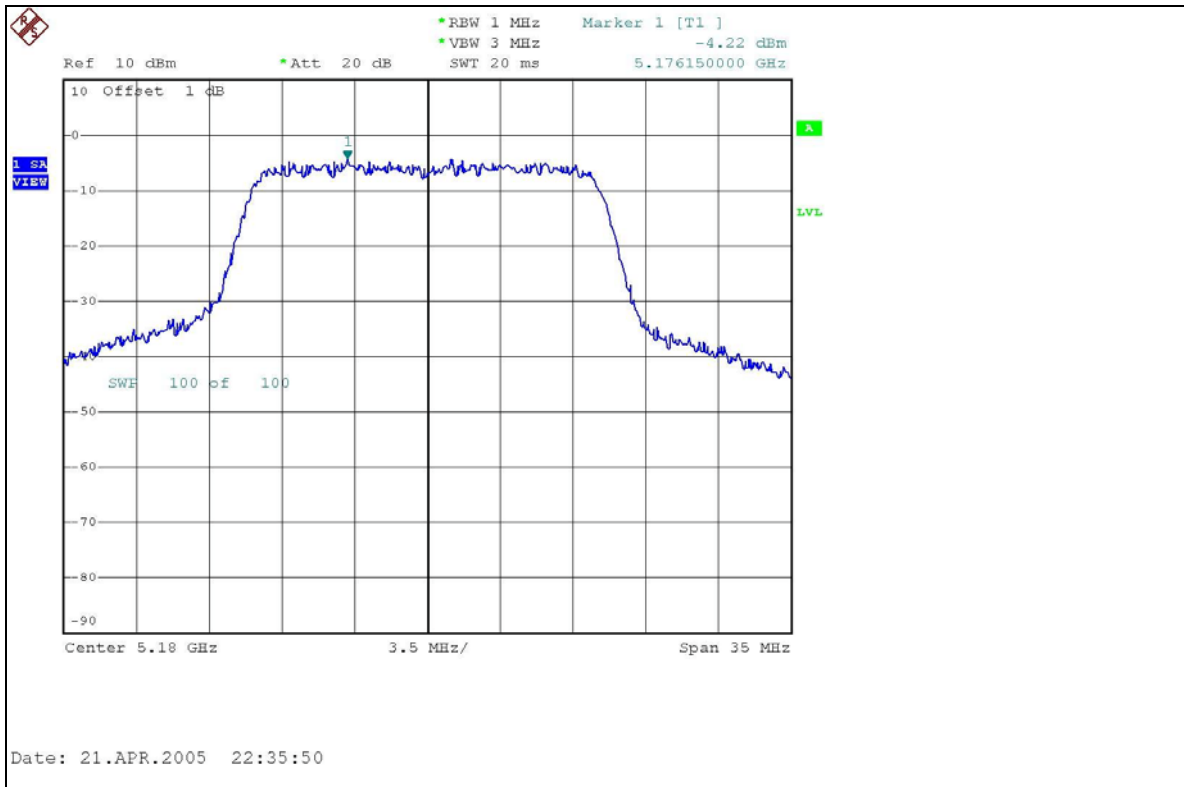
802.11a OFDM modulation

EUT	Bridging kit - 802.11a	MODEL	WL-464
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 62%RH, 960hPa
TESTED BY	Rex Huang		

Antenna 2 (Gain : 10 dBi) +Cable loss (1.2dB)

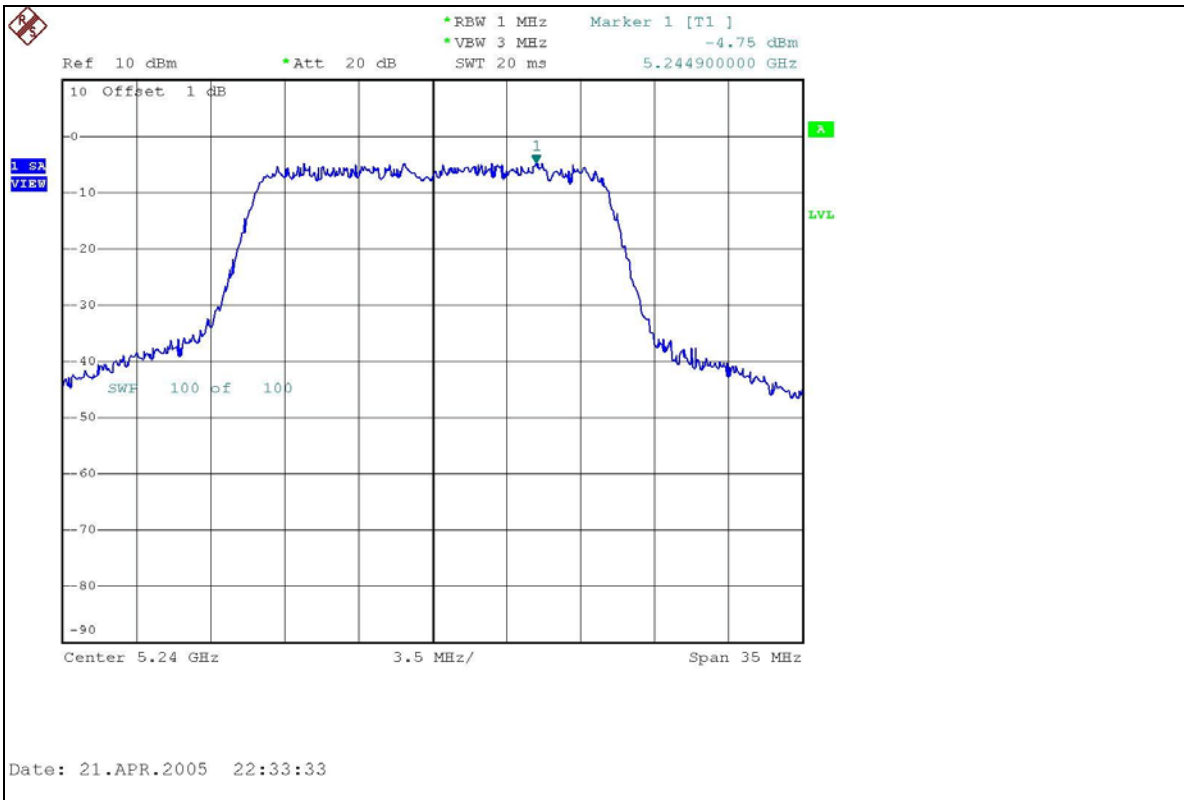
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5180	-4.22	1.2	PASS
4	5240	-4.75	1.2	PASS
5	5260	2.69	8.2	PASS
8	5320	2.54	8.2	PASS

CH1

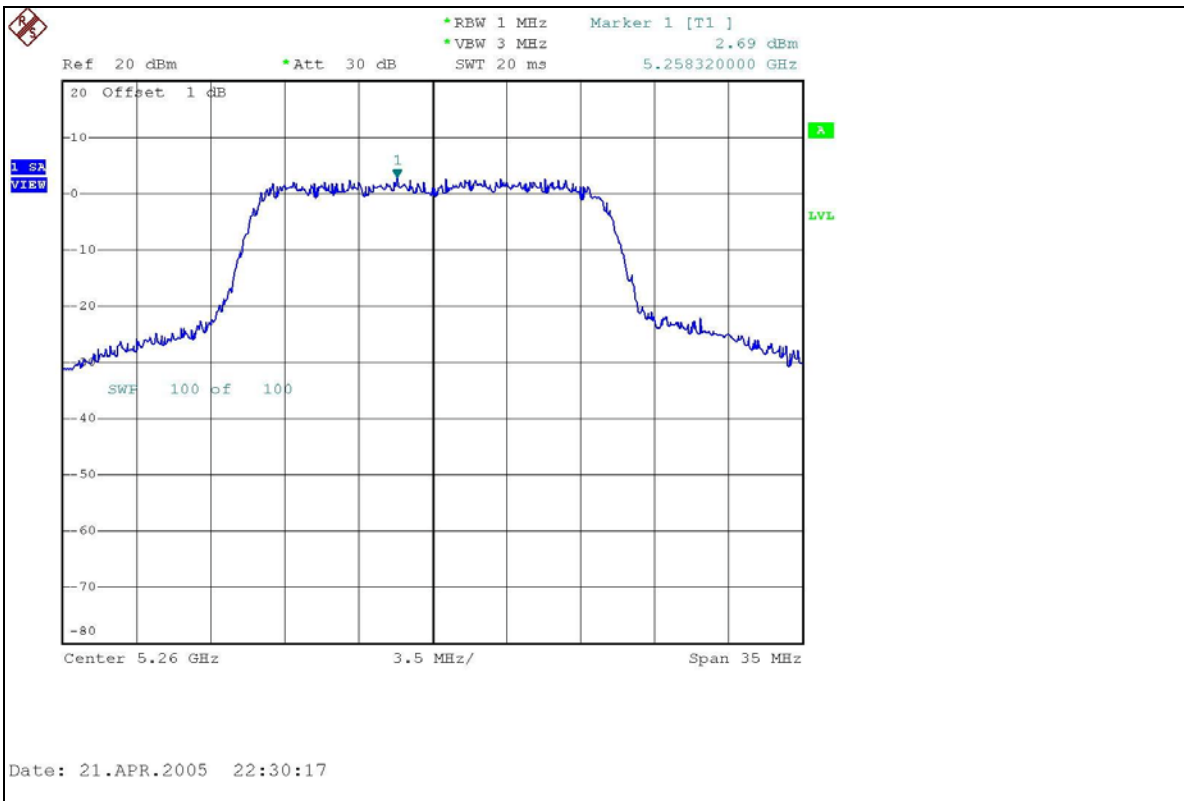




CH4

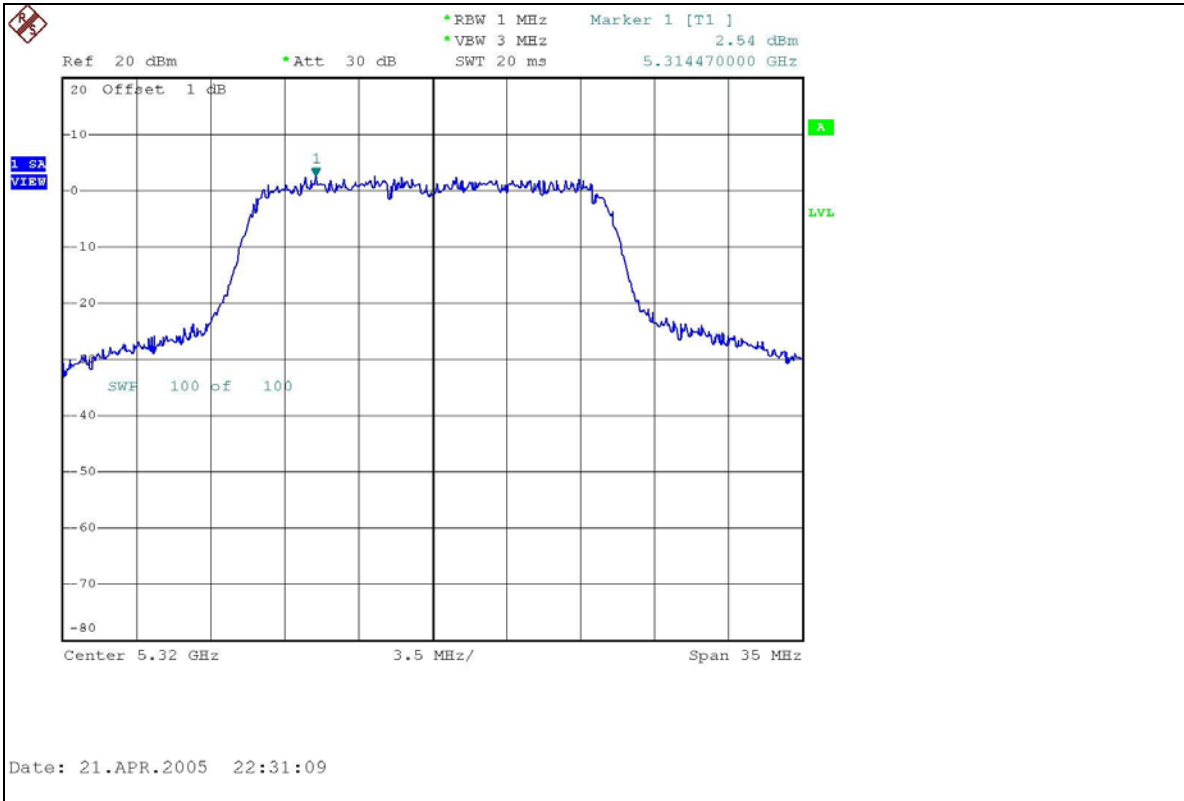


CH5





CH8





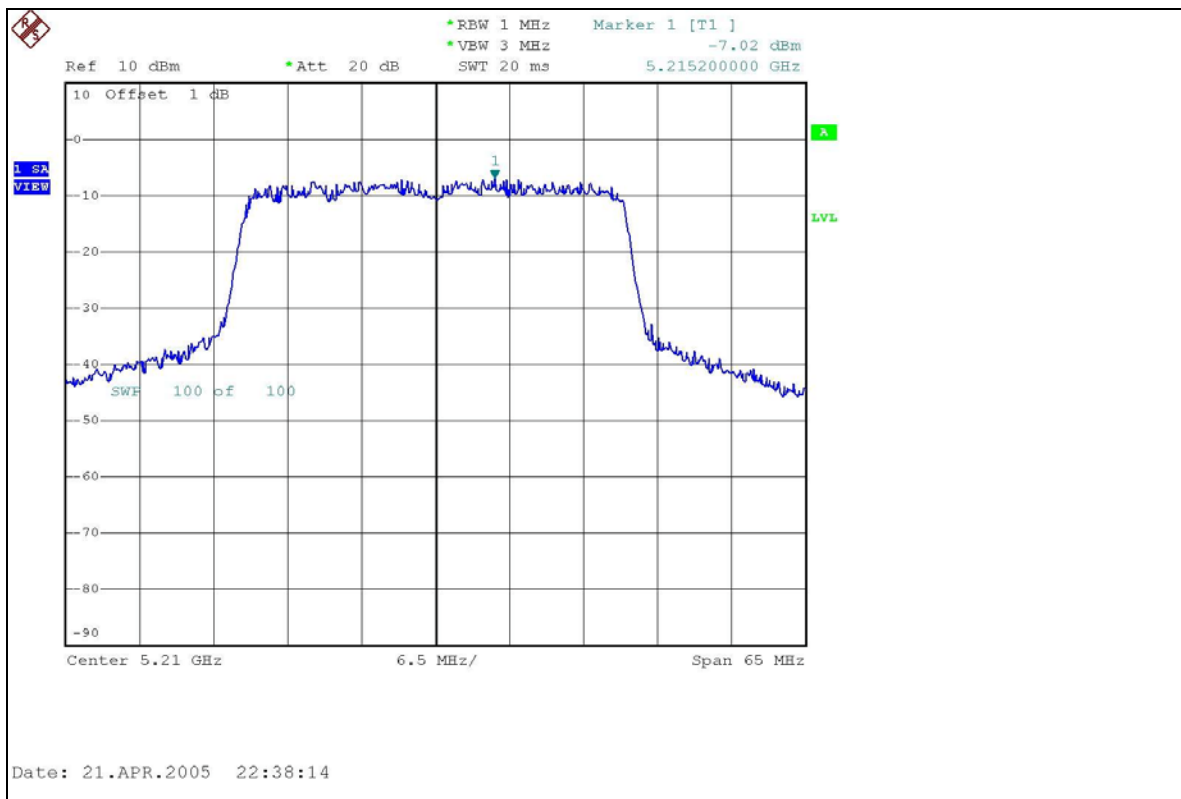
802.11a Turbo OFDM modulation

EUT	Bridging kit - 802.11a	MODEL	WL-464
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 62%RH, 960hPa
TESTED BY	Rex Huang		

Antenna 2 (Gain : 10 dBi) +Cable loss (1.2dB)

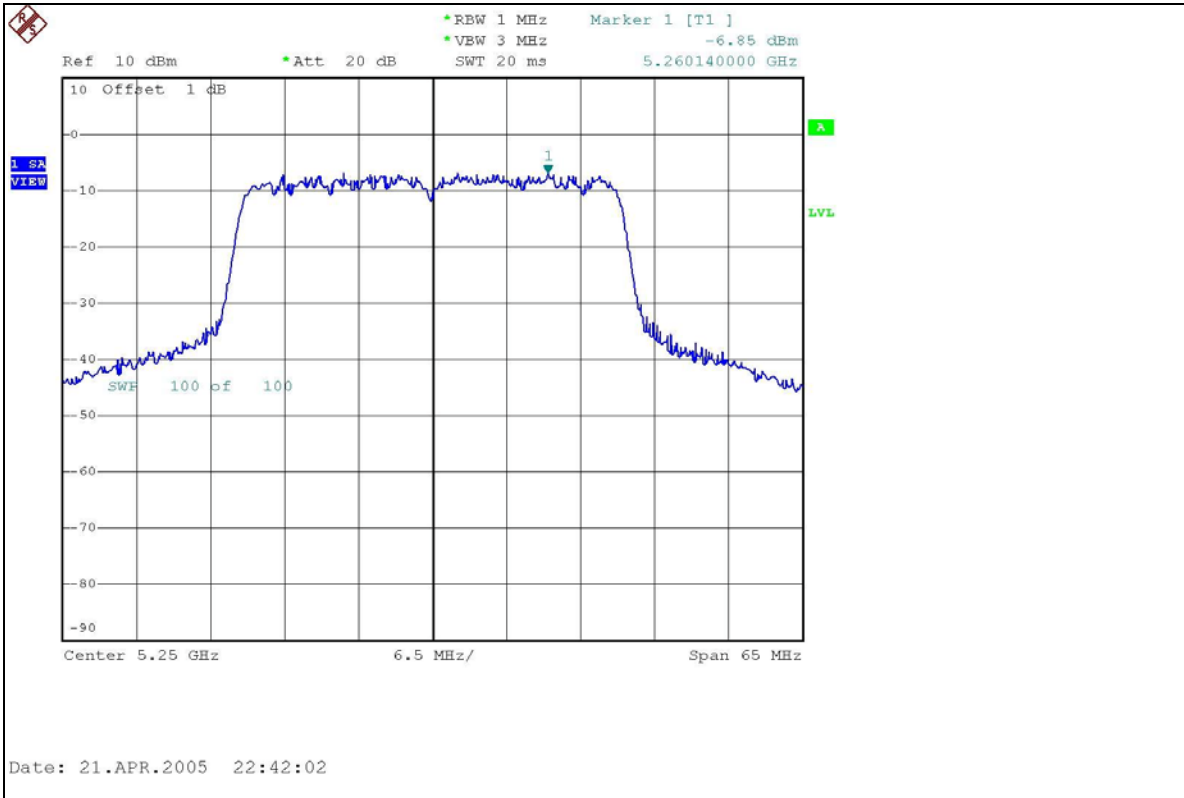
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5210	-7.02	1.2	PASS
2	5250	-6.85	1.2	PASS
3	5290	-0.17	8.2	PASS

CH1





CH2



CH3

