

10 - SPURIOUS EMISSION

10.1 Standard Applicable

According to §15.209 (a), except as provided elsewhere in the subpart of 15.209, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Measurement Field strength (microvolts/meter)	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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241

10.2 Measurement Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

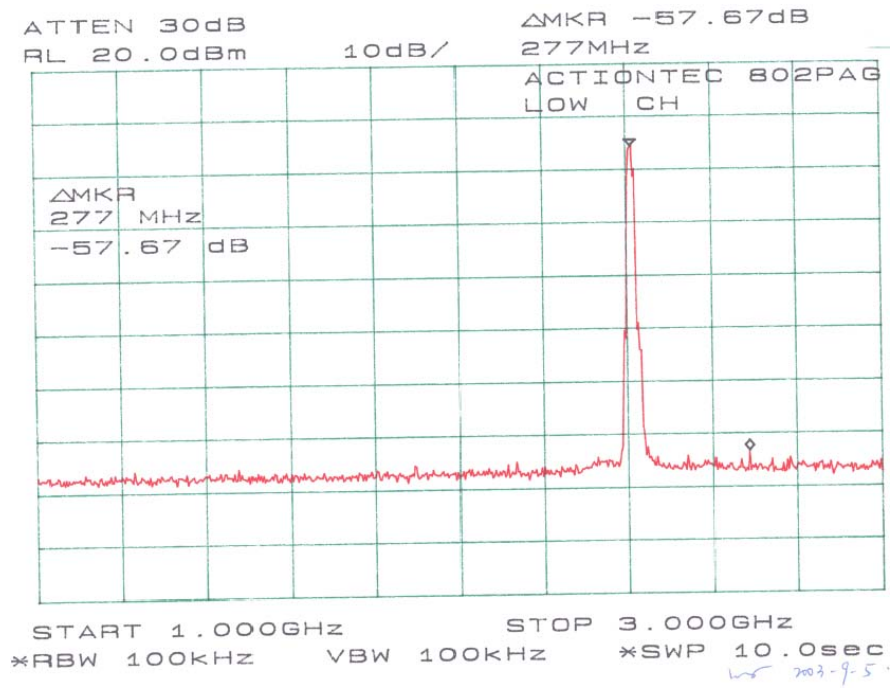
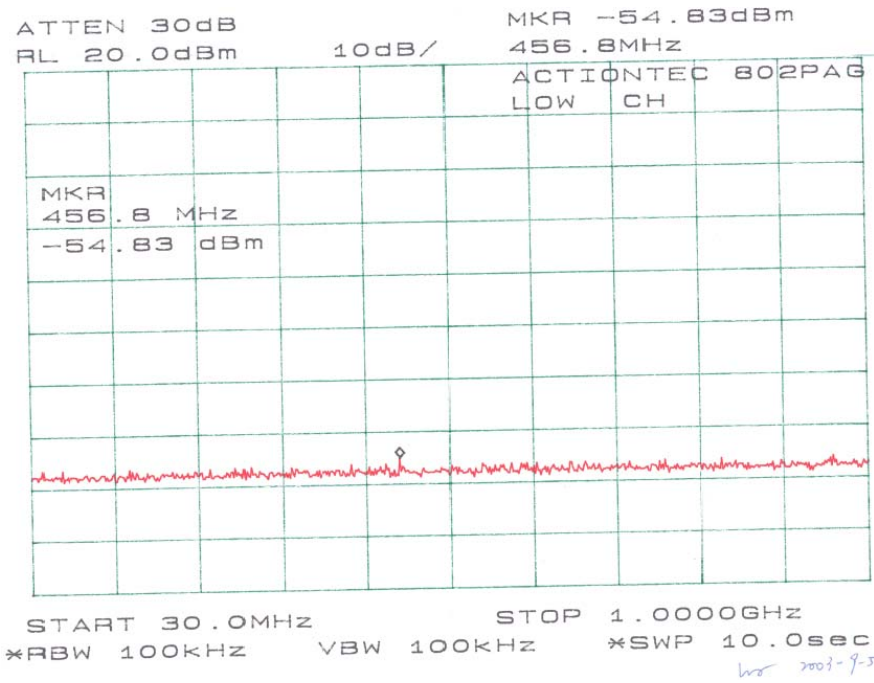
10.3 Equipment Lists

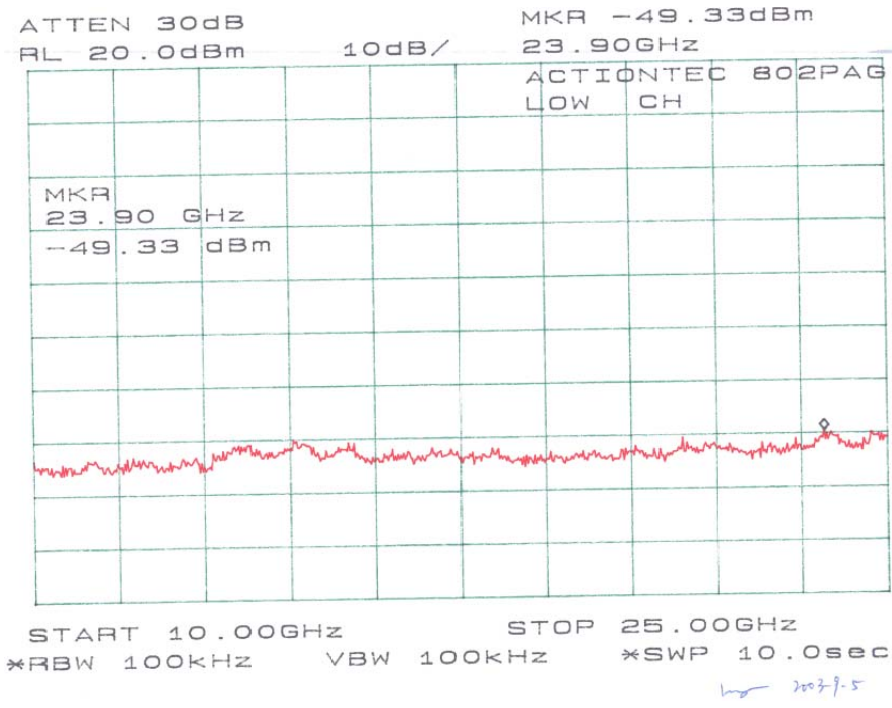
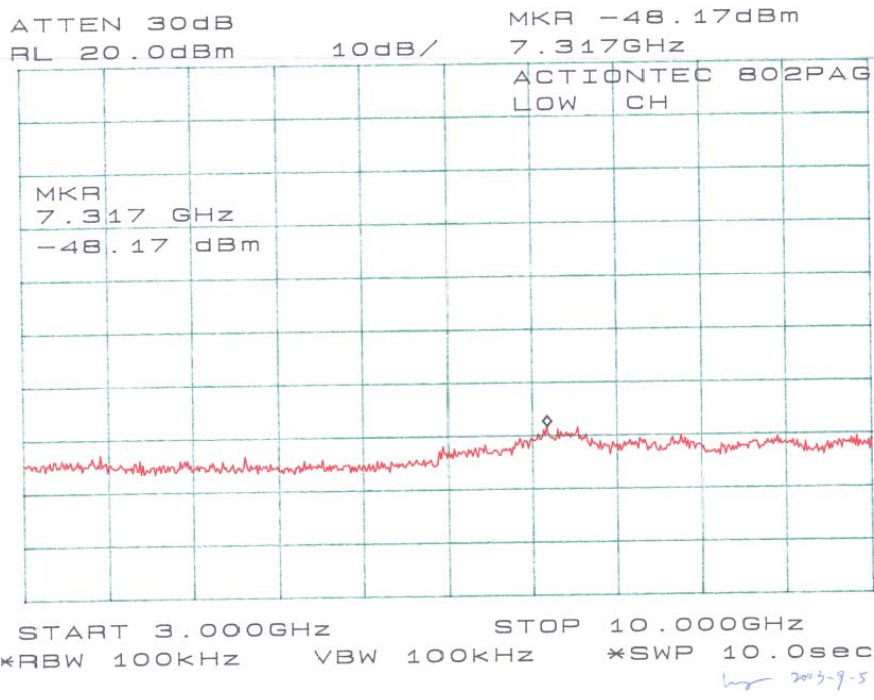
Manufacturer	Model No.	Description	Calibration Due Date
Agilent	8564E	Spectrum Analyzer	2004-08-26

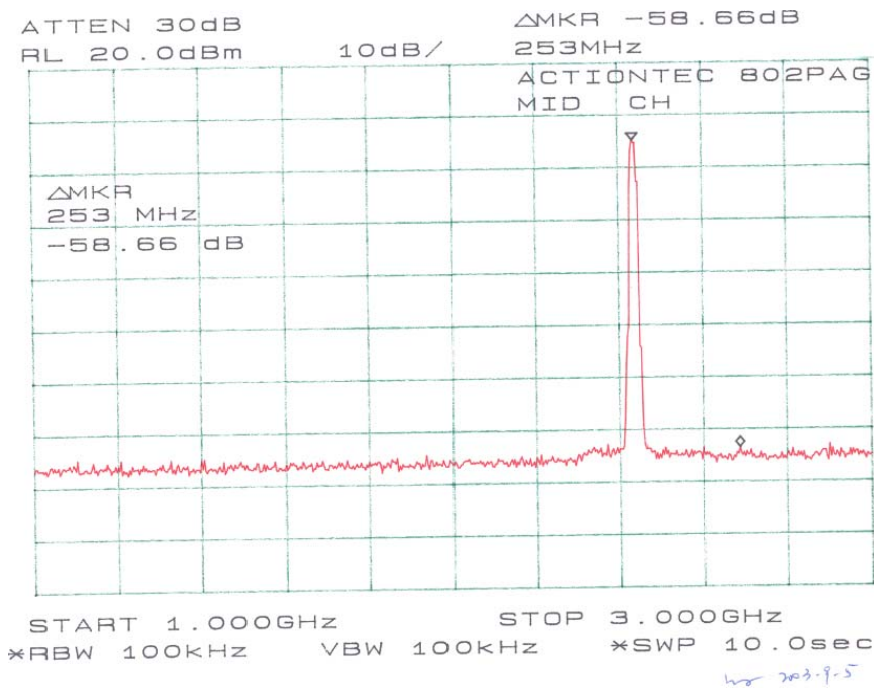
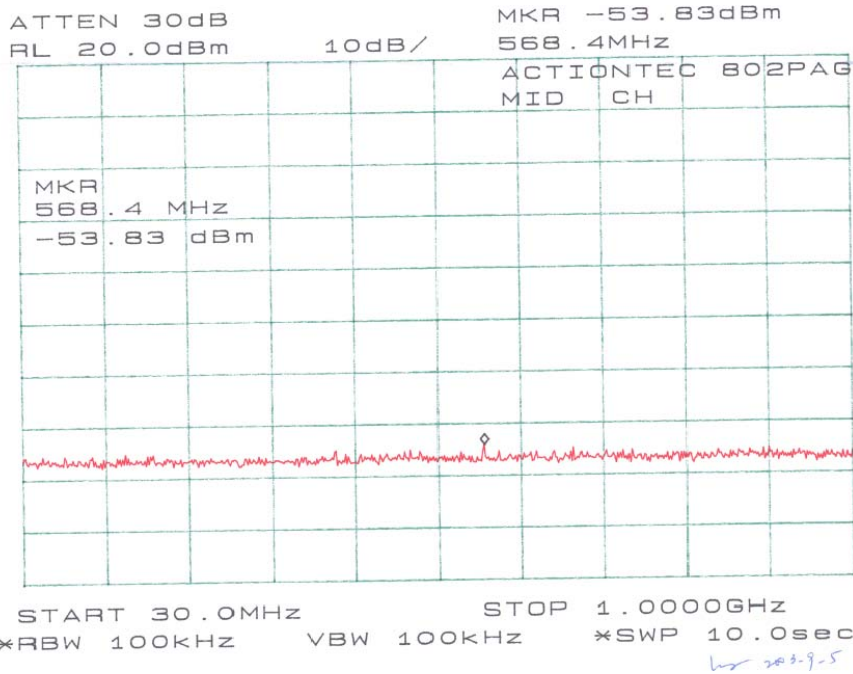
10.4 Measurement Result

Please refer to following pages for plots of spurious emission.

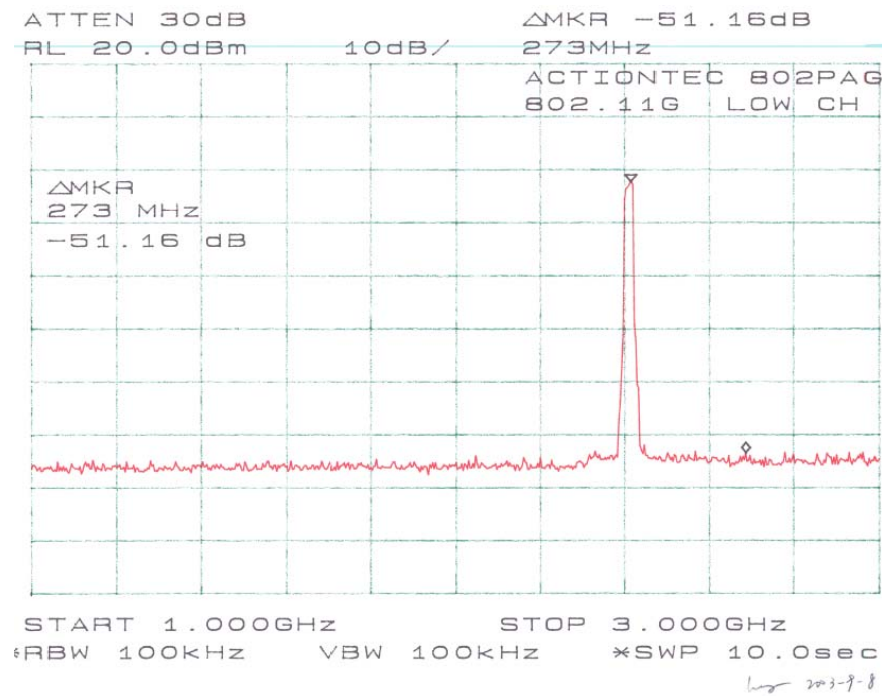
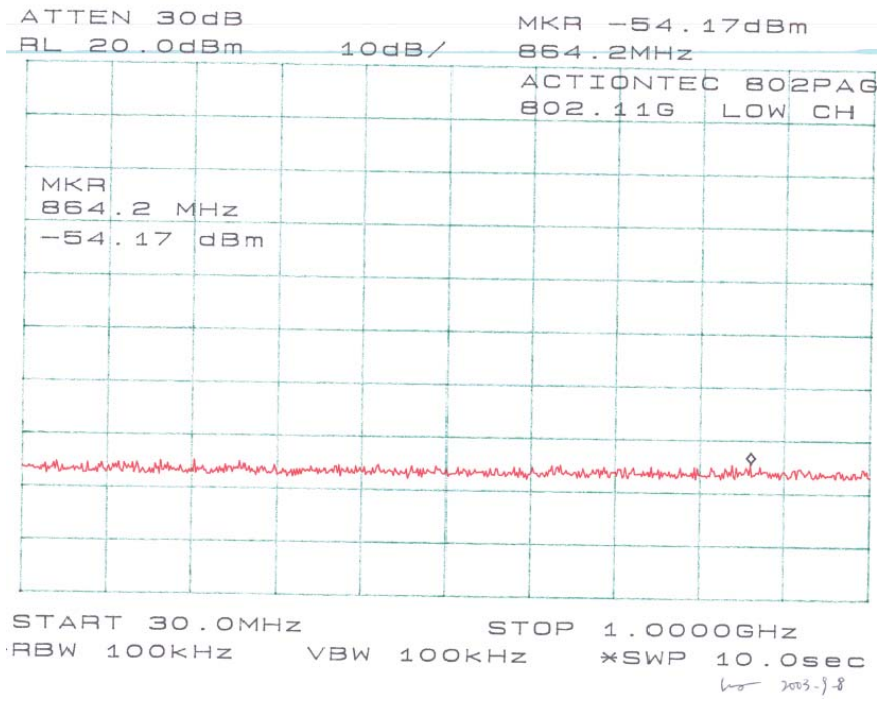
Plots of Spurious Emission for 802.11b (15.247)

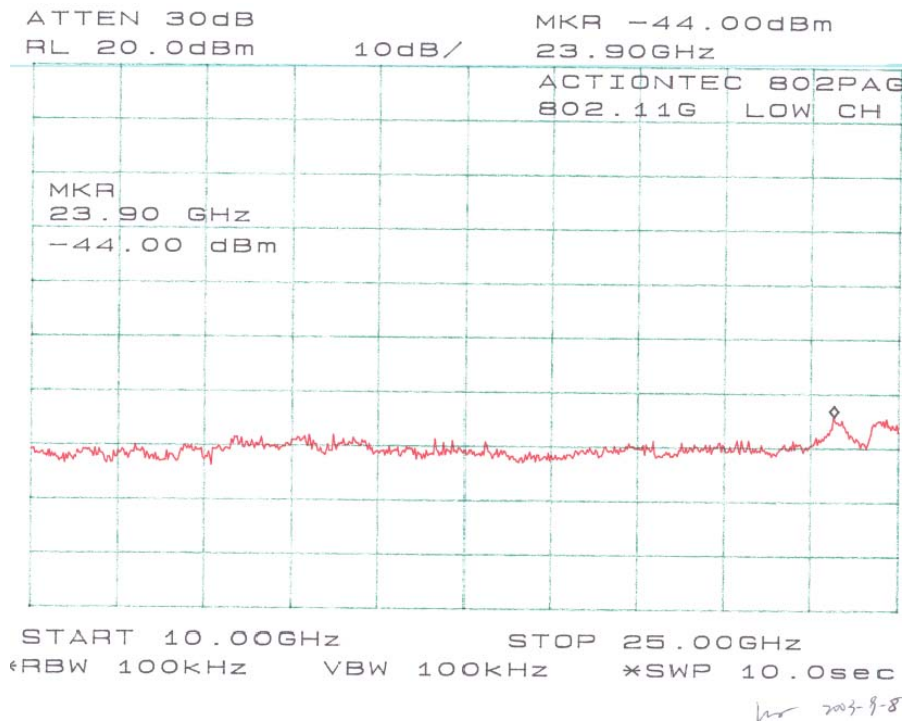
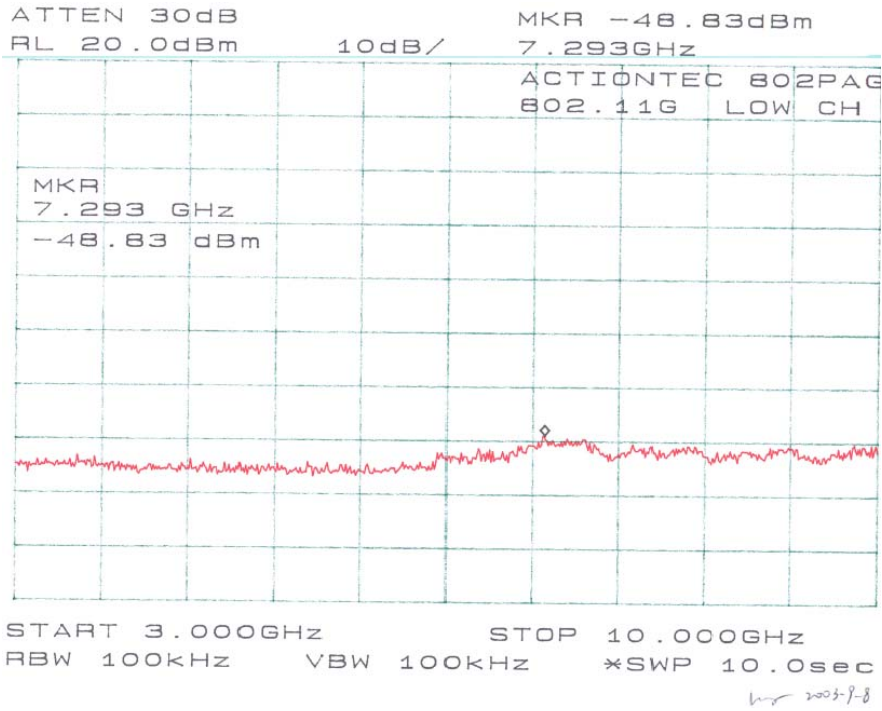






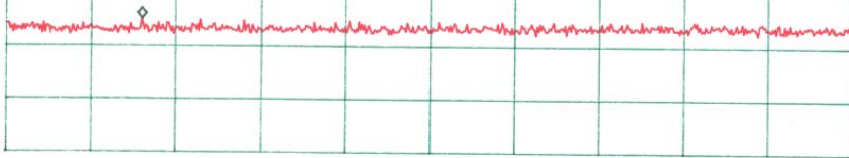
Plots of Spurious Emission for 802.11g (15.247)





ATTEN 30dB MKR -54.83dBm
RL 20.0dBm 10dB/ 185.2MHz
ACTIONTEC 802PAG
G TURBO MID CH

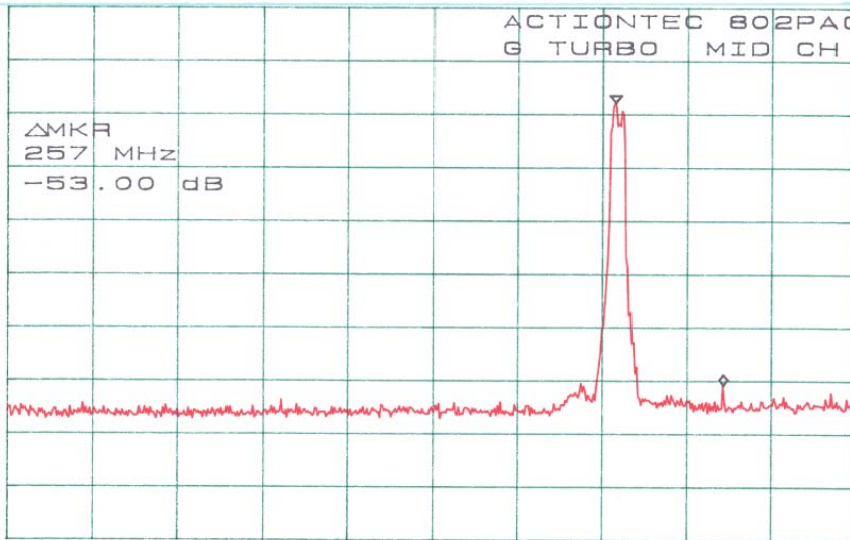
MKR
185.2 MHz
-54.83 dBm



START 30.0MHz STOP 1.0000GHz
RBW 100kHz VBW 100kHz *SWP 10.0sec
hr 2003-9-8

ATTEN 30dB ΔMKR -53.00dB
RL 20.0dBm 10dB/ 257MHz
ACTIONTEC 802PAG
G TURBO MID CH

ΔMKR
257 MHz
-53.00 dB



START 1.000GHz STOP 3.000GHz
RBW 100kHz VBW 100kHz *SWP 10.0sec
hr 2003-9-8

