The Measurement of Conducted Spurious Emissions

CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

1. LIMITS OF CONDUCTED SPURIOUS EMISSIONS EASUREMENT

Below 20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth, see Section 15.247(c)).   Emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the limits specified in Section 15.209(a) (see Section 15.205(c)).

2. TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 2003
HIGH PASS FILTER	WHK3.1/18G-10SS	SN4	Jun. 12, 2004

NOTE:

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

3. TEST PROCEDURE

2.5GHz~13GHz:

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

13GHz~25GHz:

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 with suitable frequency span including 100 kHz bandwidth from band edge.   The band edges was measured and recorded.

4. TEST SETUP

2.5GHz~13GHz:

| EUT | — | HIGH PASS FILTER | — | SPECTRUM ANALYZER |

13GHz~25GHz:

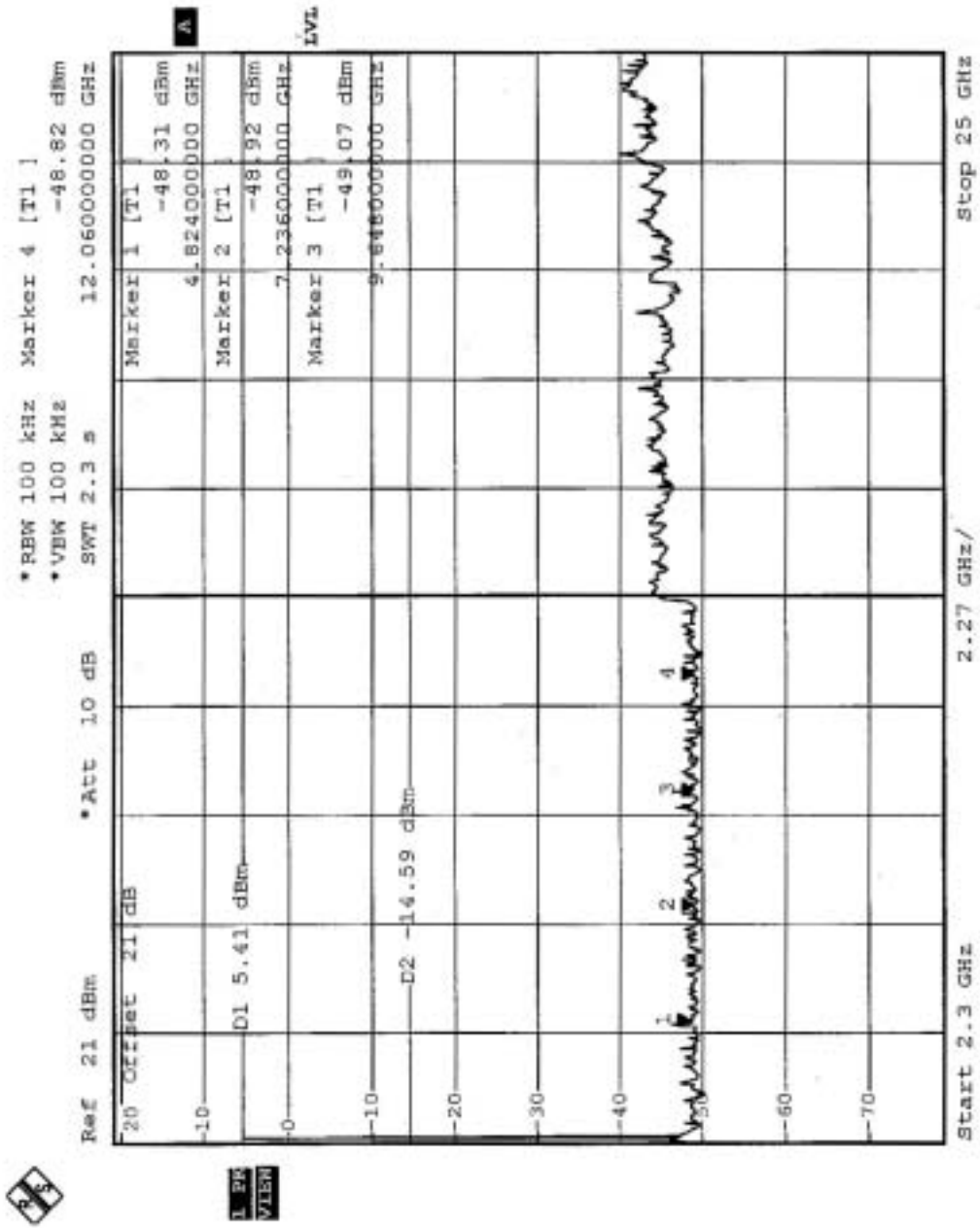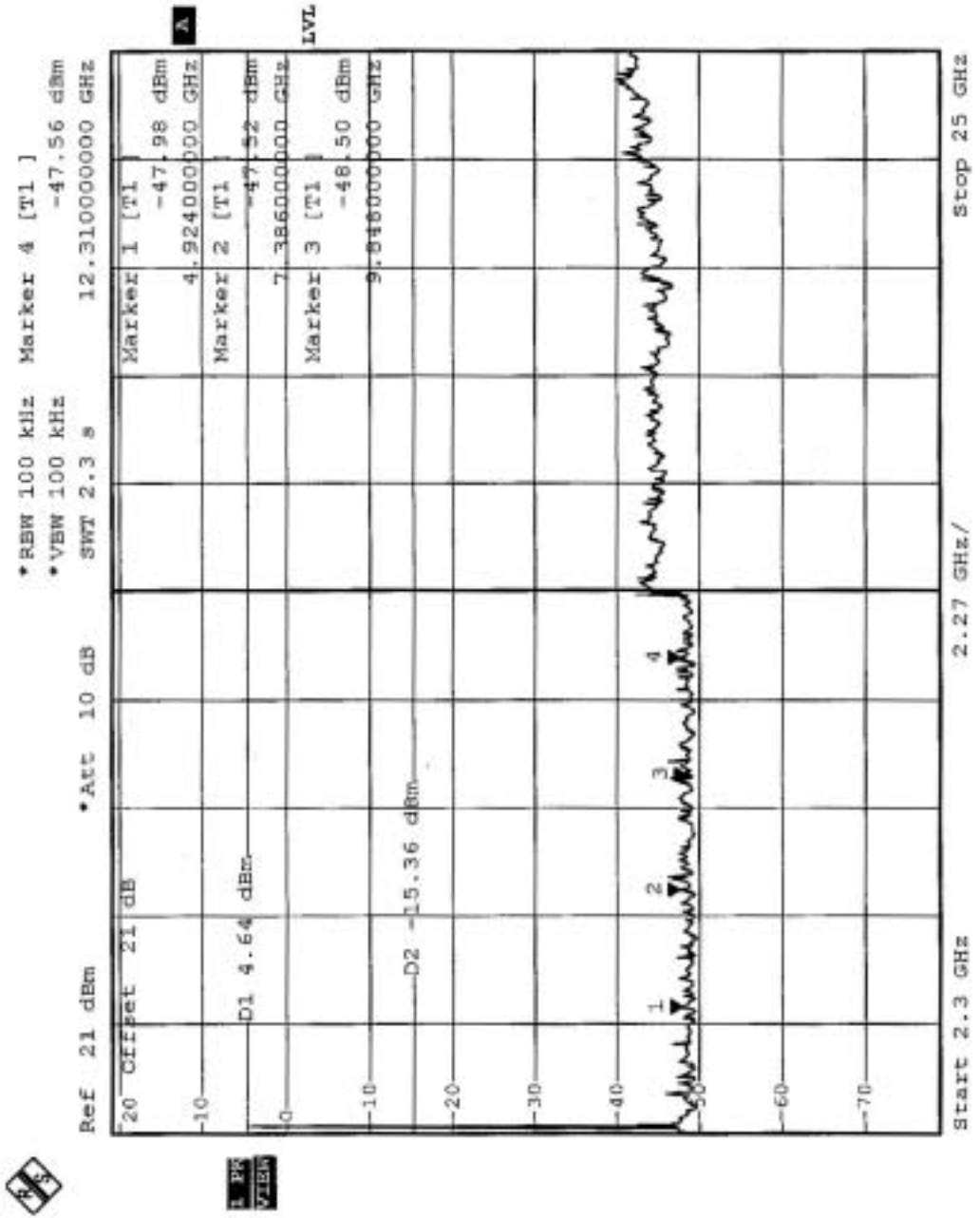| EUT | — | SPECTRUM ANALYZER |
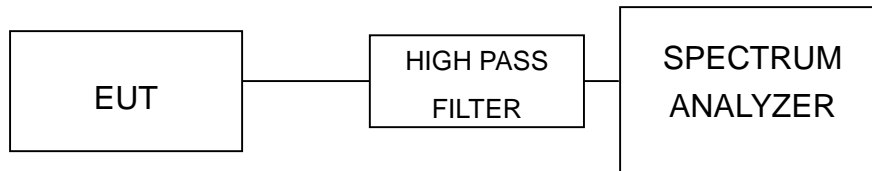
5. EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.
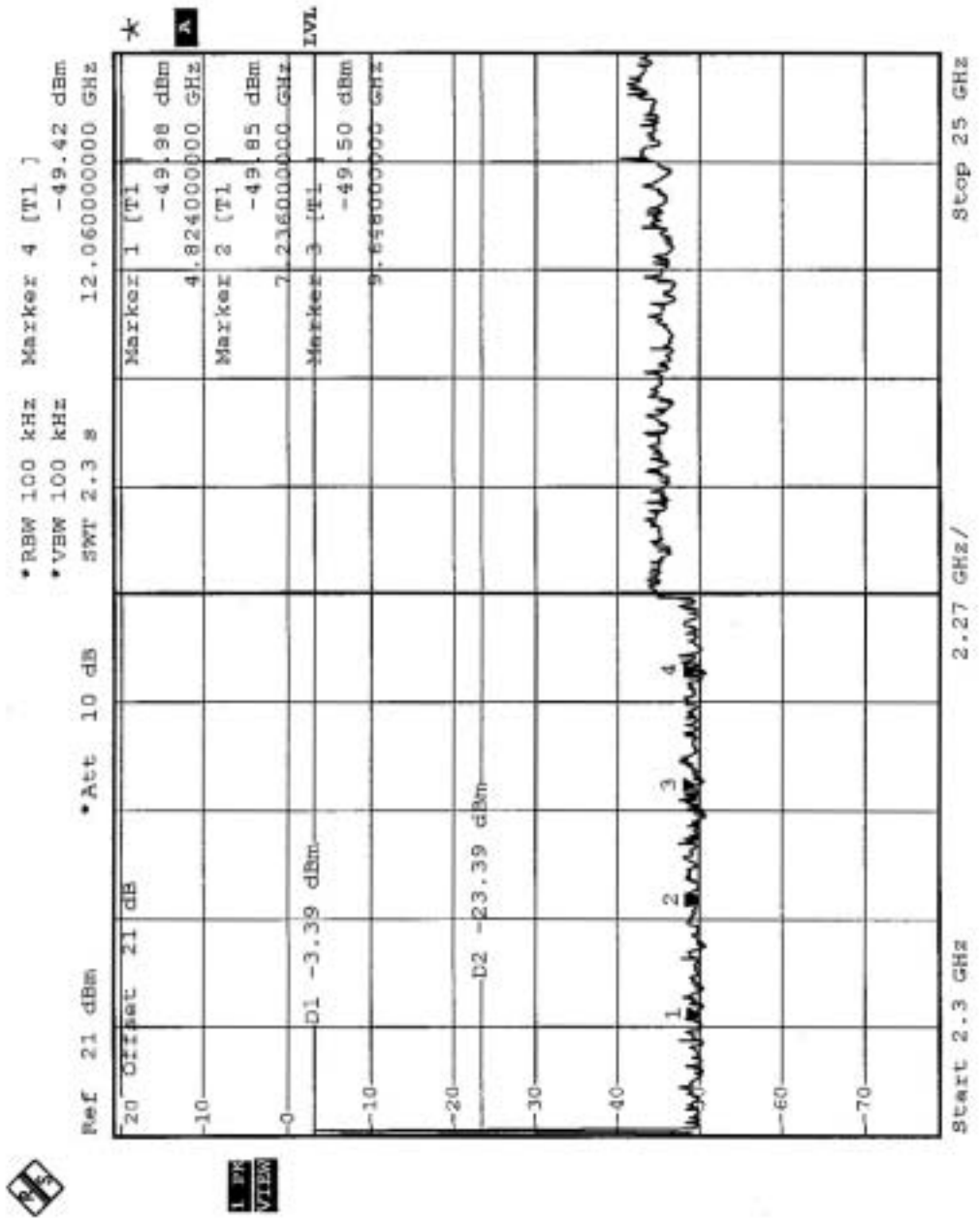
TEST RESULTS – For 802.11b

The spectrum plots are attached on the following 2 pages.   It shows compliance with the requirement in part 15.247(C),.15.205 and 15.209.

Ch1

Ref 21 dBm   *Att 10 dB   *RBW 100 kHz   Marker 4 [T1]
                                        *VBW 100 kHz   -48.82 dBm
                                        SWT 2.3 s   12.06000000 GHz

Marker 1 [T1]
        -48.31 dBm
  4.824000000 GHz

Marker 2 [T1]
        -48.92 dBm
  7.236000000 GHz

Marker 3 [T1]
        -49.07 dBm
  9.648000000 GHz

D1 5.41 dBm

D2 -14.59 dBm

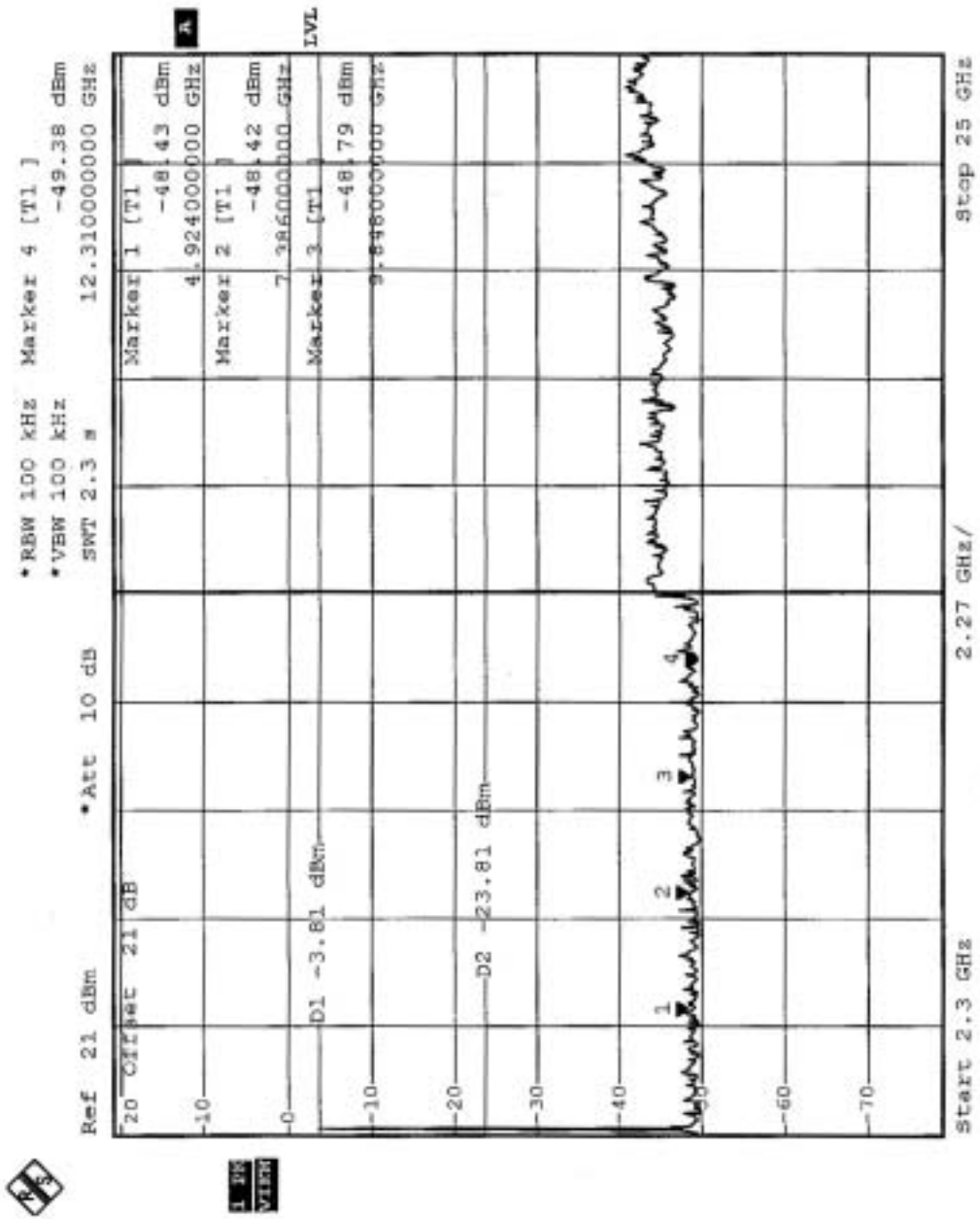Start 2.3 GHz   2.27 GHz/   Stop 25 GHz

TEST RESULTS – For 802.11g

The spectrum plots are attached on the following 2 pages.   It shows compliance with the requirement in part 15.247(C),.15.205 and 15.209.

TEST RESULTS – For 802.11a, Normal mode

The spectrum plots are attached on the following 4 pages.   It shows compliance with the requirement in part 15.247(C),.15.205 and 15.209.

Ch1

Ch9