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	FSP40	100036	Nov. 27, 2005
High pass filter 2.4G	WHK3.1/18G-10SS	SN4	Jun. 08, 2005

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

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

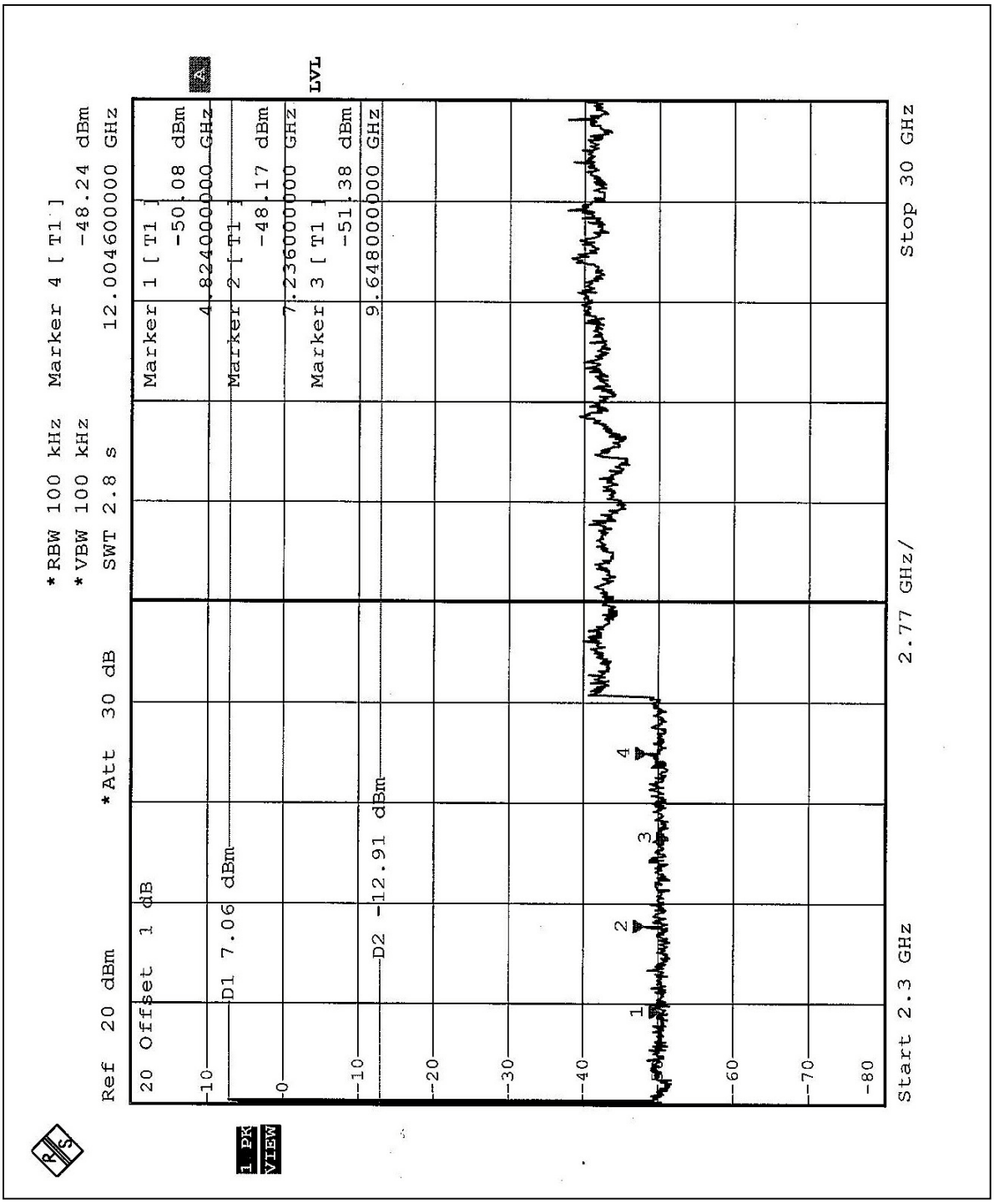
5. EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

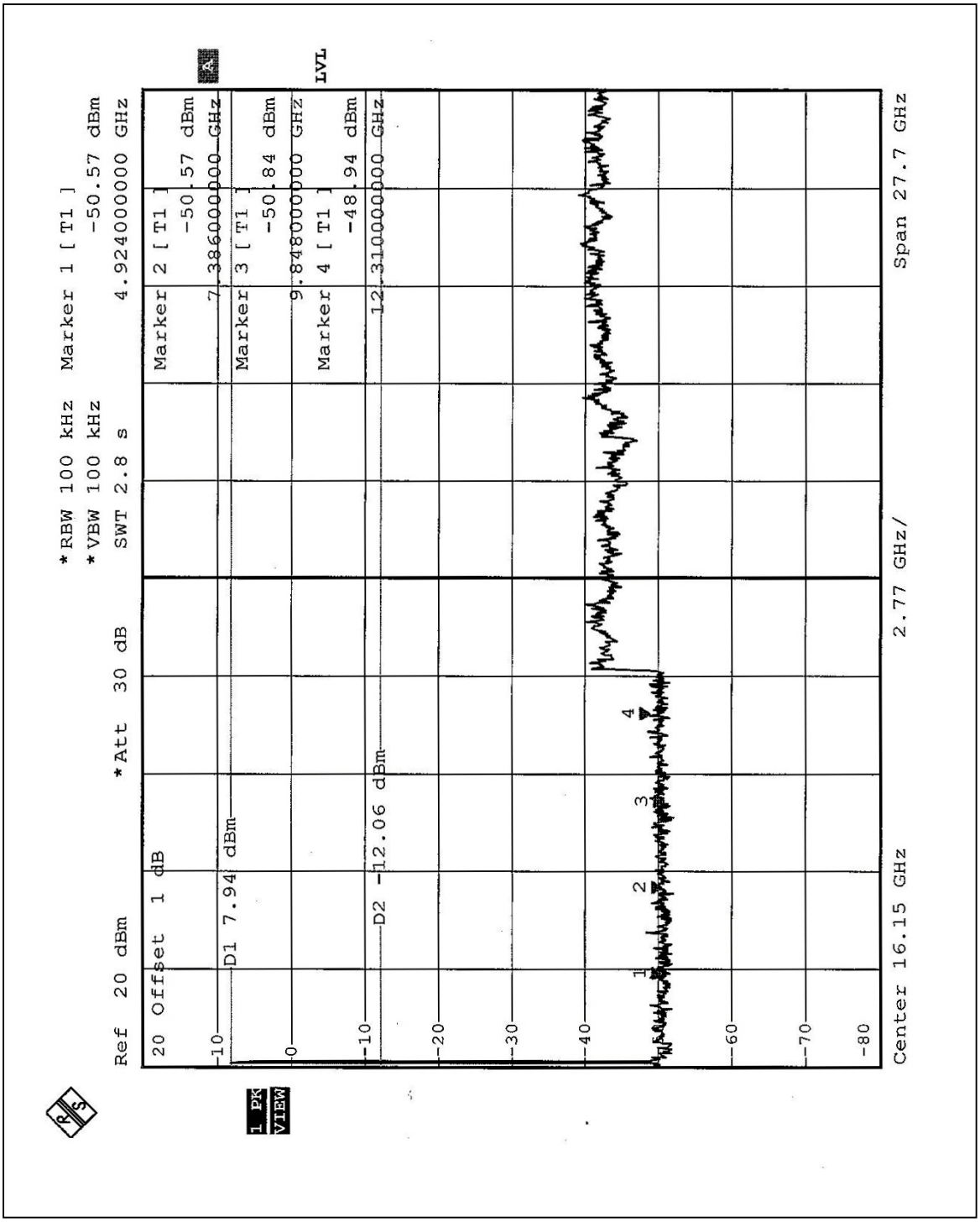
TEST RESULTS – For 802.11b

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 20 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.8 s
Marker 4 [T1]
-48.24 dBm
12.004600000 GHz
20 Offset 1 dB
D1 7.06 dBm
D2 -12.91 dBm
Marker 1 [T1]
-50.08 dBm
4.824000000 GHz
Marker 2 [T1]
-48.17 dBm
7.236000000 GHz
Marker 3 [T1]
-51.38 dBm
9.648000000 GHz
LVL
1 PK
VIEW
Start 2.3 GHz
2.77 GHz/
Stop 30 GHz

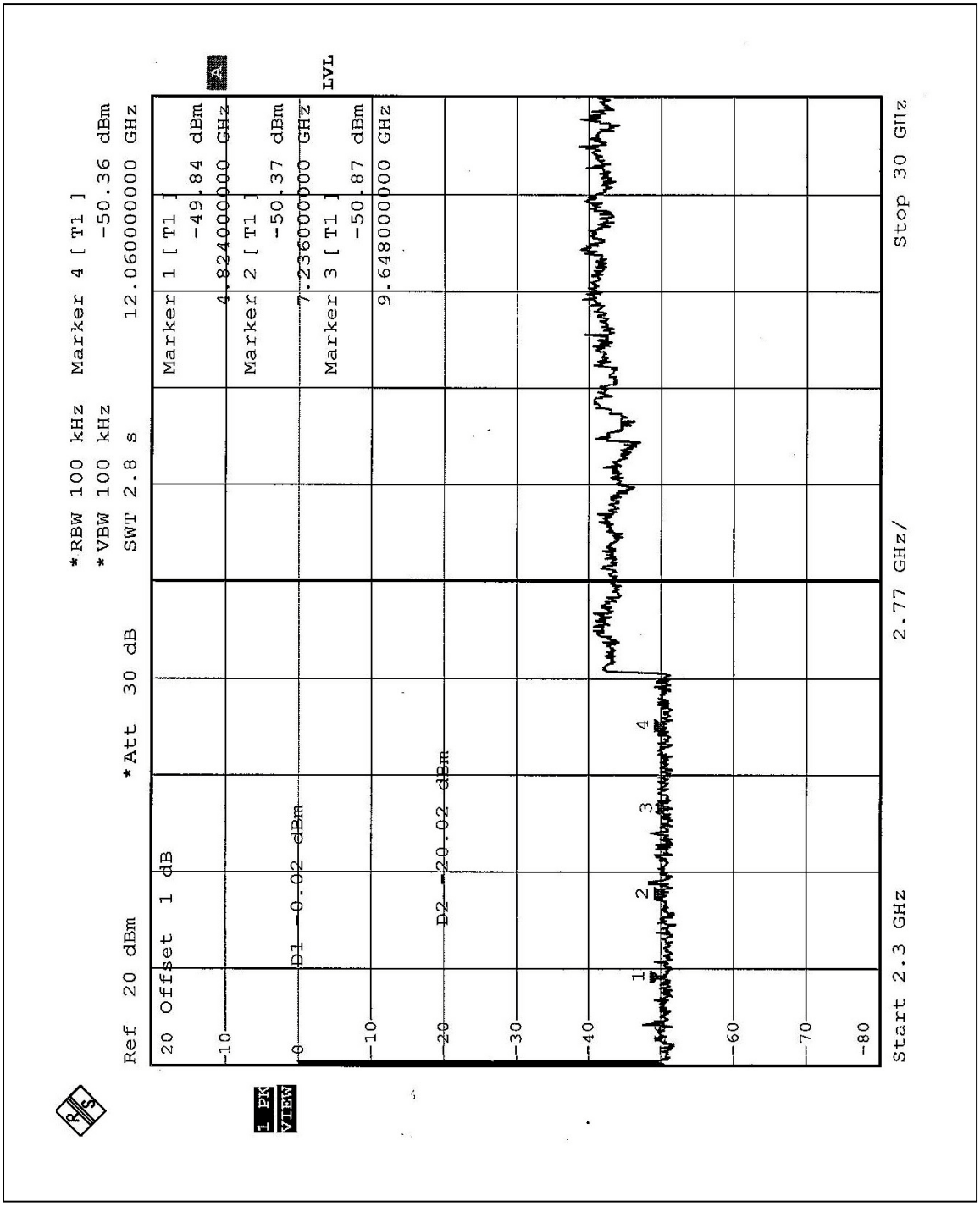
Ch11


Ref 20 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.8 s
Marker 1 [T1]
-50.57 dBm
4.924000000 GHz
20 Offset 1 dB
D1 7.94 dBm
D2 -12.06 dBm
Marker 2 [T1]
-50.57 dBm
7.386000000 GHz
Marker 3 [T1]
-50.84 dBm
9.848000000 GHz
Marker 4 [T1]
-48.94 dBm
12.310000000 GHz
LVL
1 PK
VIEW
Center 16.15 GHz
2.77 GHz/
Span 27.7 GHz

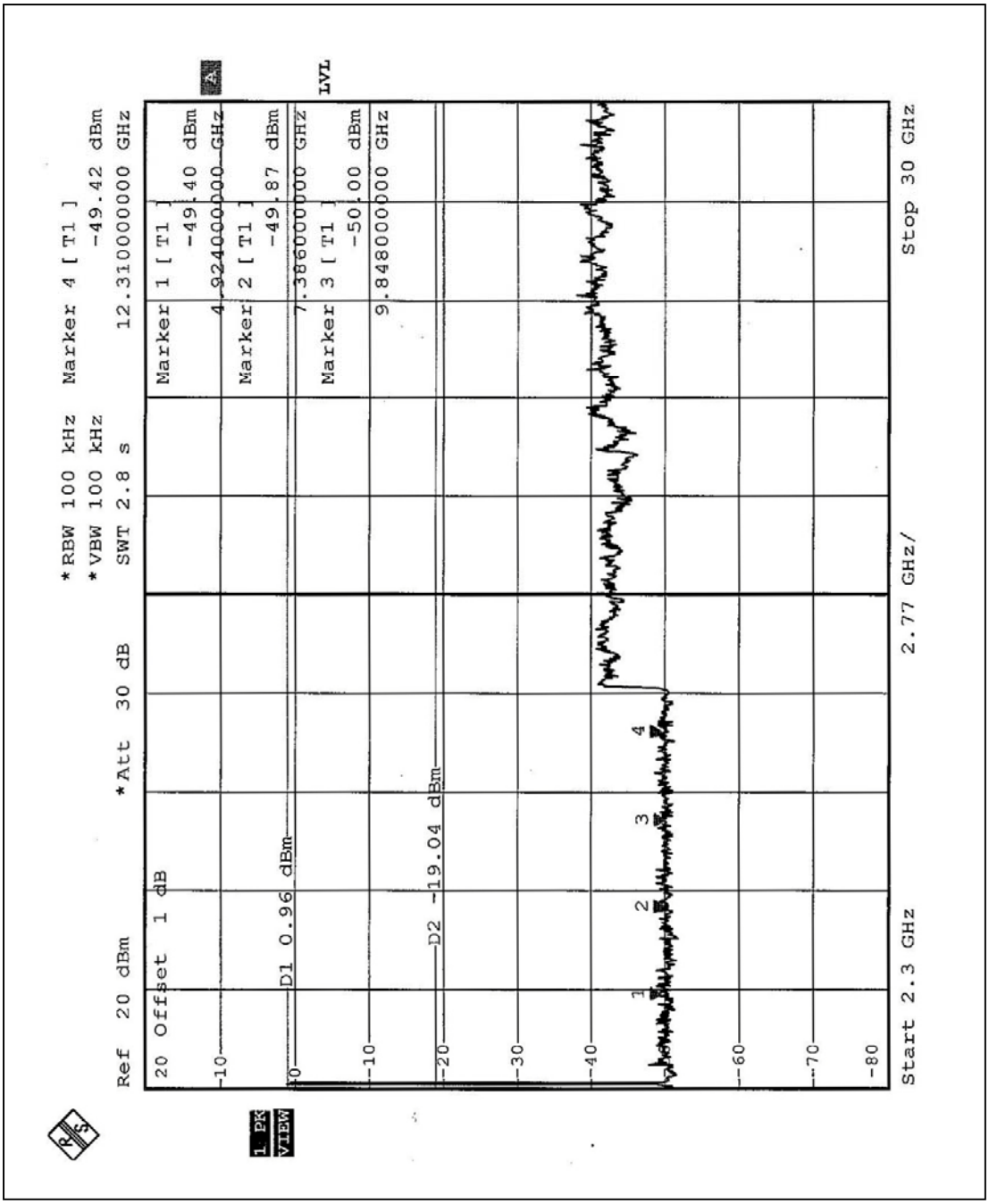
TEST RESULTS – For 802.11g

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.

Ch1


Ref 20 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.8 s
Marker 4 [T1]
-50.36 dBm
12.060000000 GHz
20 Offset 1 dB
D1 -0.02 dBm
D2 -20.02 dBm
Marker 1 [T1]
-49.84 dBm
4.824000000 GHz
Marker 2 [T1]
-50.37 dBm
7.236000000 GHz
Marker 3 [T1]
-50.87 dBm
9.648000000 GHz
1 PK
VBW
LVL
Start 2.3 GHz
2.77 GHz/
Stop 30 GHz

Ch11


Ref 20 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.8 s
Marker 4 [T1]
-49.42 dBm
12.310000000 GHz
20 Offset 1 dB
D1 0.96 dBm
D2 -19.04 dBm
Marker 1 [T1]
-49.40 dBm
4.924000000 GHz
Marker 2 [T1]
-49.87 dBm
7.386000000 GHz
Marker 3 [T1]
-50.00 dBm
9.848000000 GHz
LVL
Start 2.3 GHz
2.77 GHz/
Stop 30 GHz