

The Measurement of Conducted Spurious Emissions

CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

1. LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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:

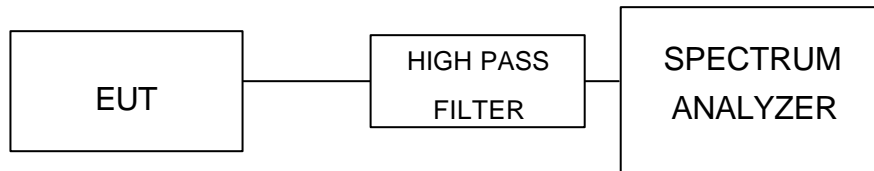
The transmitter output was connected to the spectrum analyzer via a low loss cable and a high pass filter. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

13GHz~25GHz:

The transmitter output was connected to the spectrum analyzer via a low loss 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:



13GHz~25GHz:

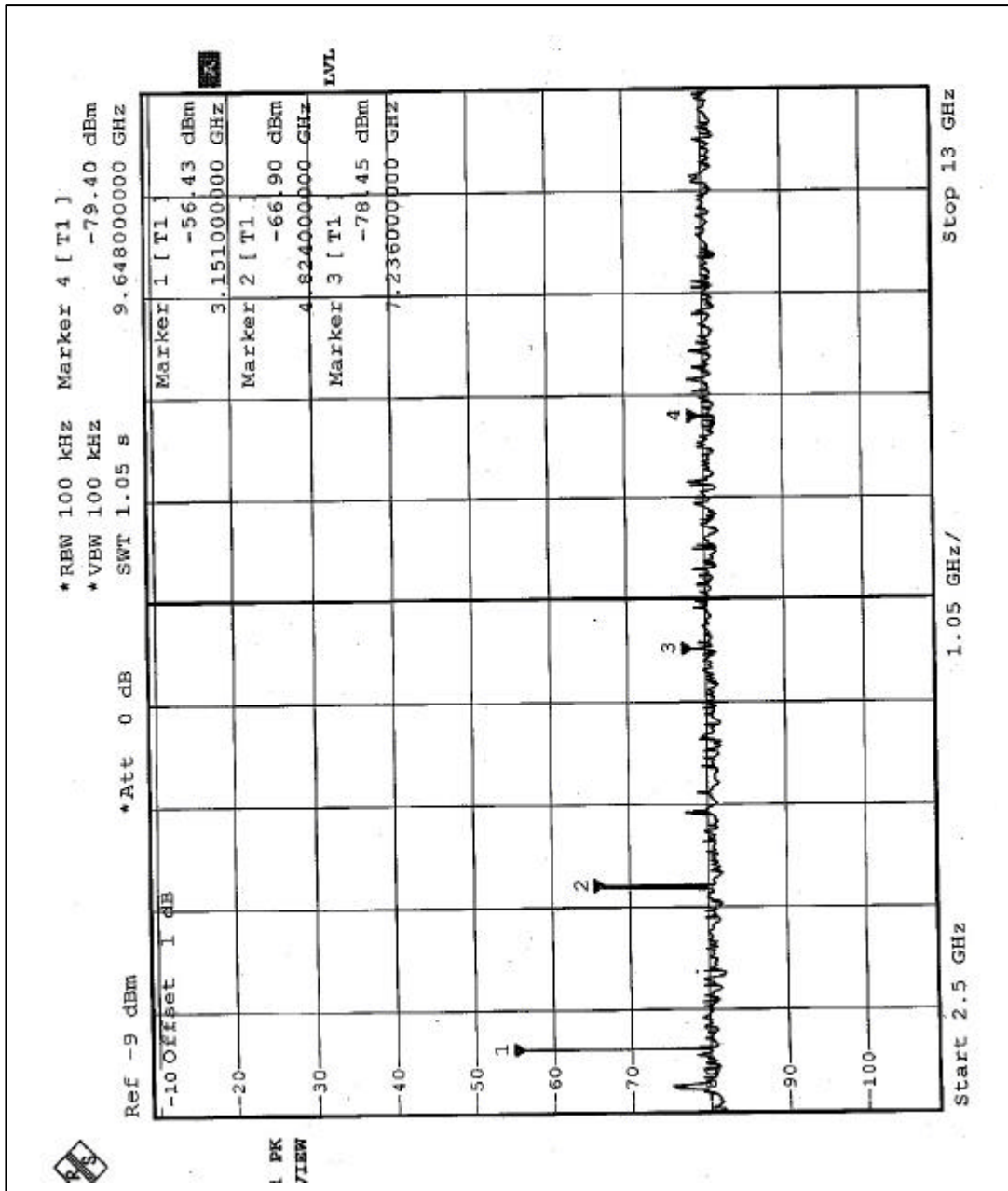


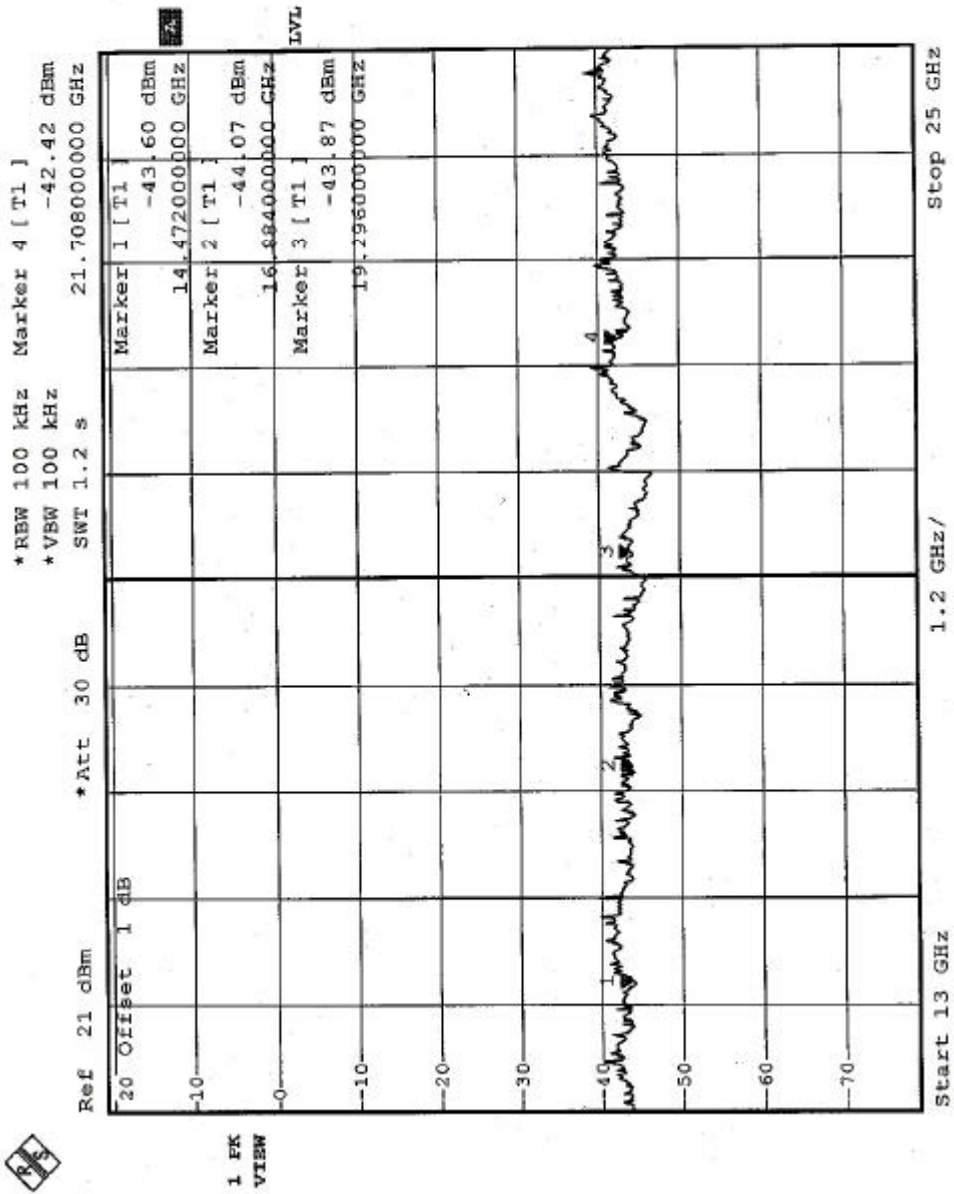
5. EUT OPERATING CONDITIONS

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 4 pages. It shows compliance with the requirement in part 15.247(C),.15.205 and 15.209.





1 FK
VIEW



* RBW 100 kHz
* VSW 100 kHz
* Att 30 dB
* SWT 1.2 s

Marker 4 [T1]

-43.12 dBm

22.15800000 GHz

Ref 21 dBm

+ Att 30 dB

* SWT 1.2 s

Marker 1 [T1]

-41.75 dBm

14.77200000 GHz

Marker 2 [T1]

-43.03 dBm

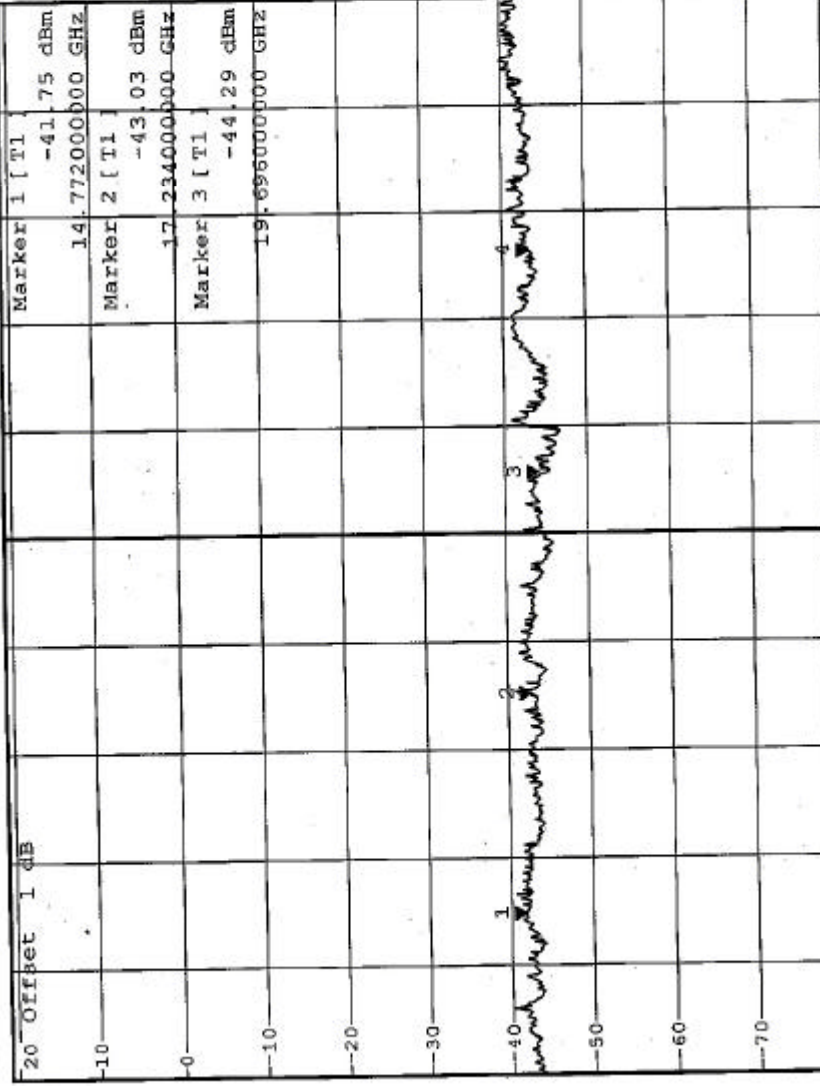
17.23400000 GHz

Marker 3 [T1]

-44.29 dBm

19.69600000 GHz

1 PK
VIEW



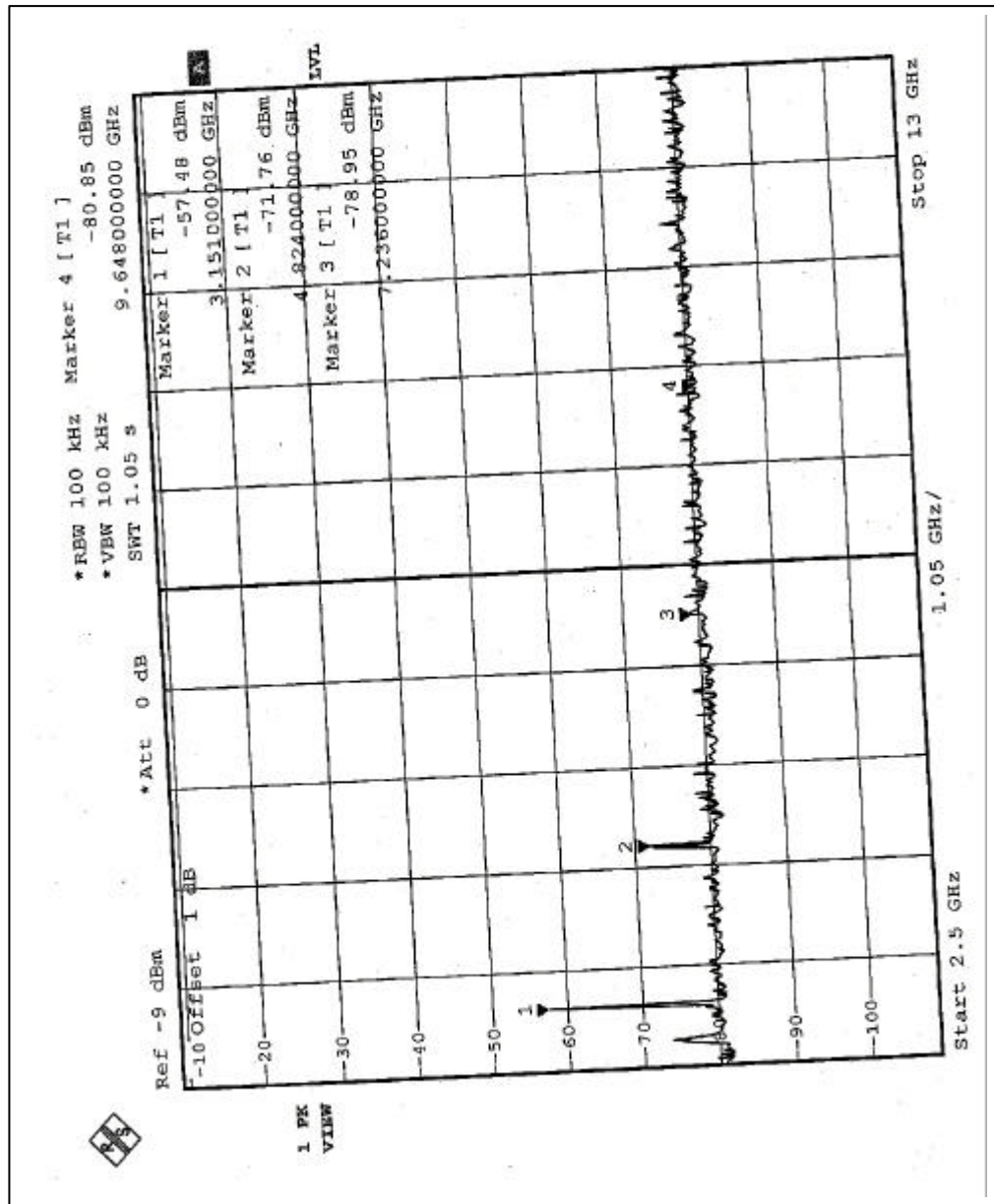
Start 13 GHz

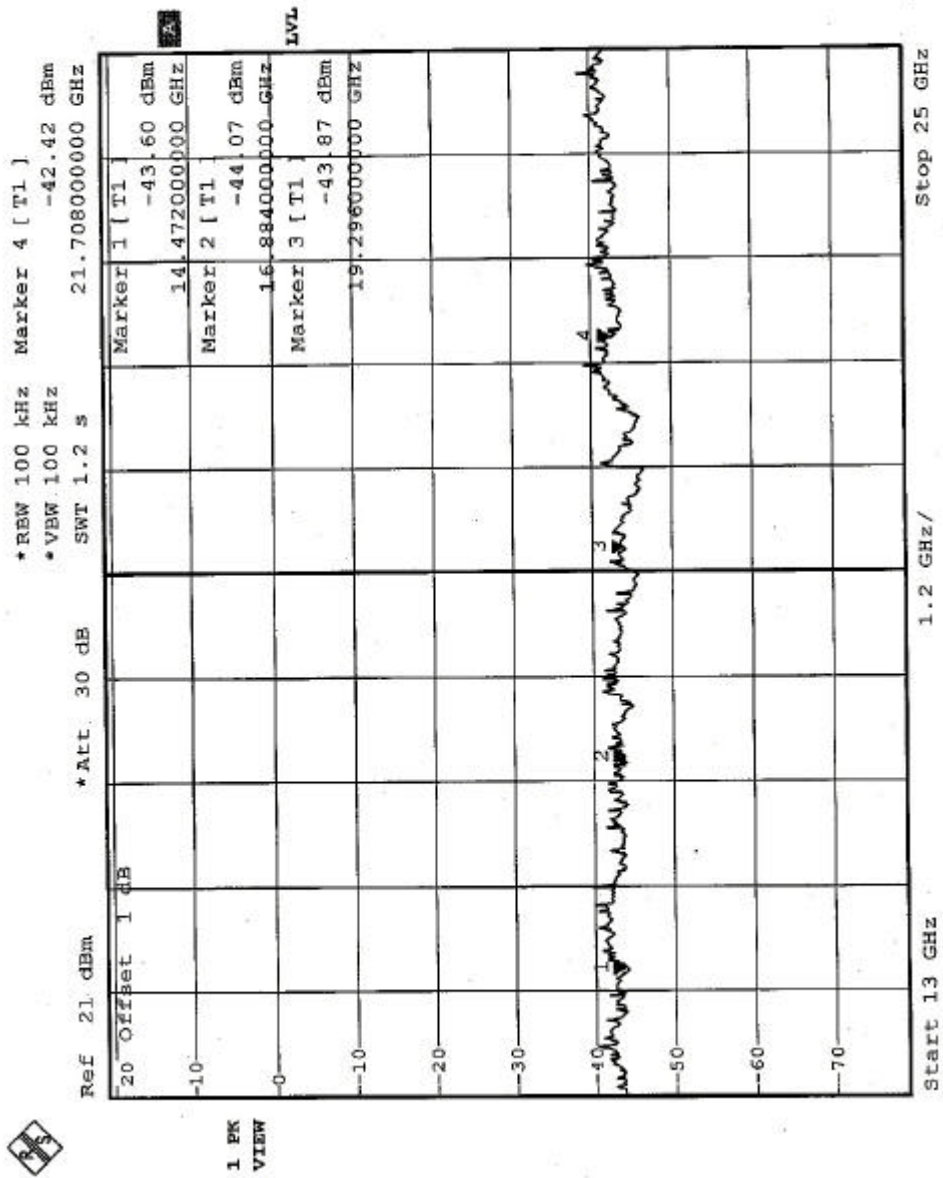
1.2 GHz/

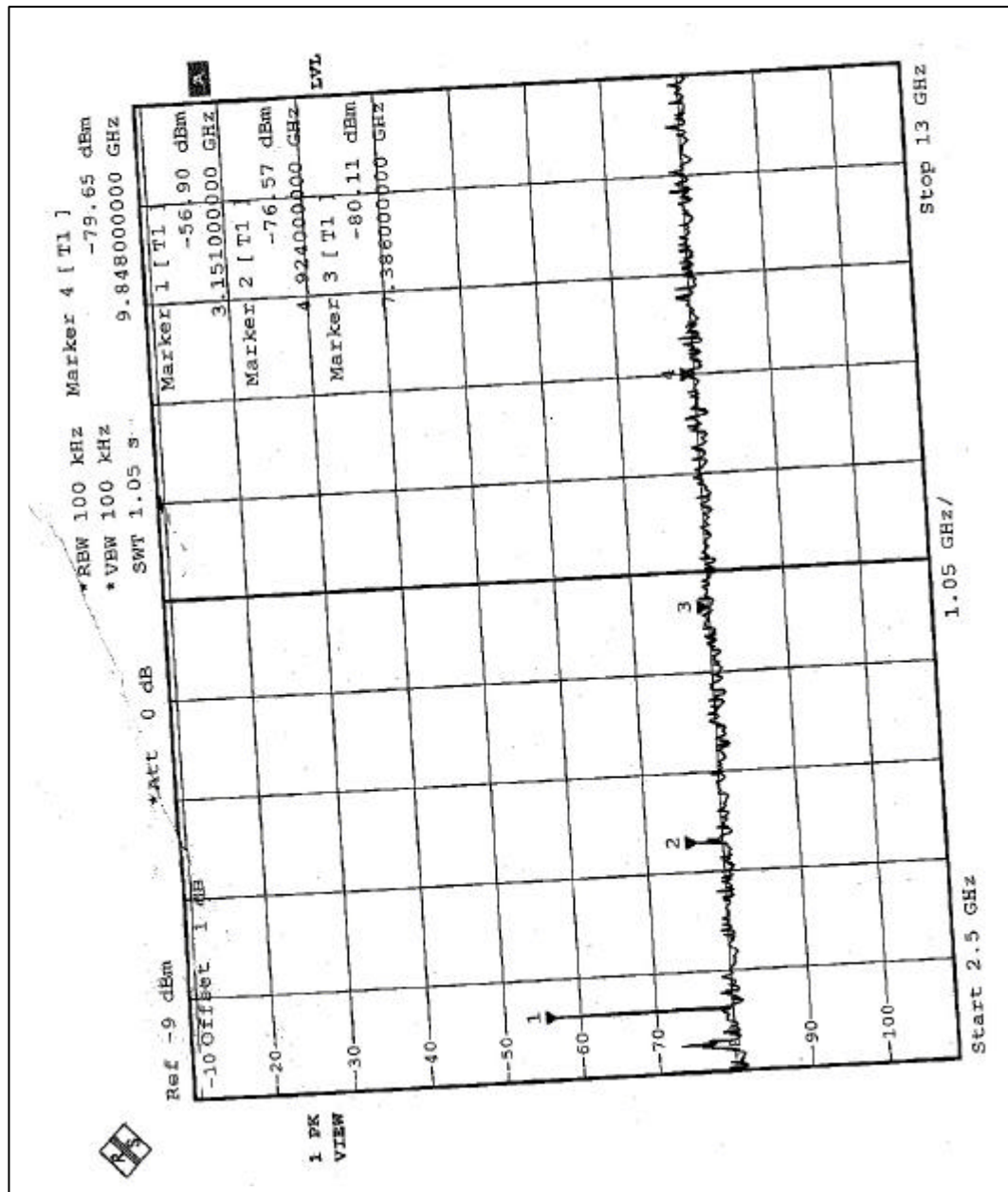
Stop 25 GHz

TEST RESULTS – For 802.11g

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.



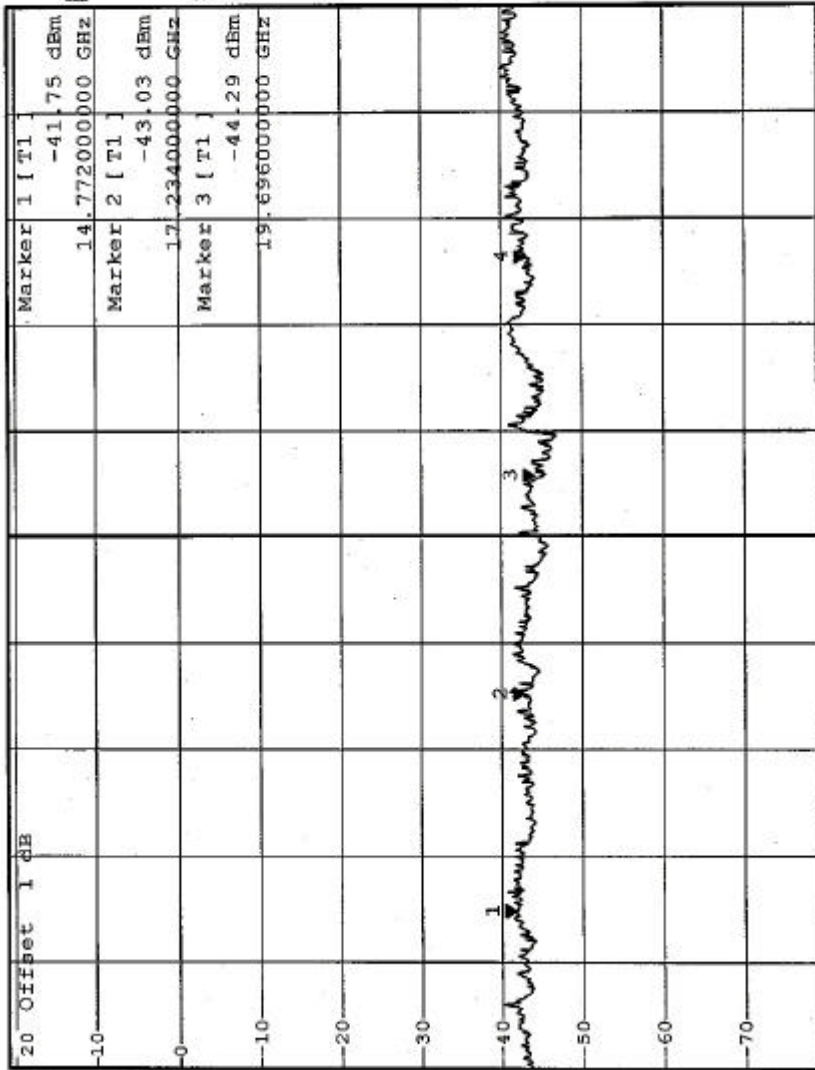






*RBW 100 kHz
*VBW 100 kHz
*Att 30 dB
*SWT 1.2 s

Ref 21 dBm
Marker 4 [T1]
-43.12 dBm
22.15800000 GHz



Marker 1 [T1]
14.77200000 GHz
-41.75 dBm

Marker 2 [T1]
17.23400000 GHz
-43.03 dBm

Marker 3 [T1]
19.69600000 GHz
-44.29 dBm

LVL

1 PK
VIEW

Start 13 GHz
1.2 GHz/
Stop 25 GHz