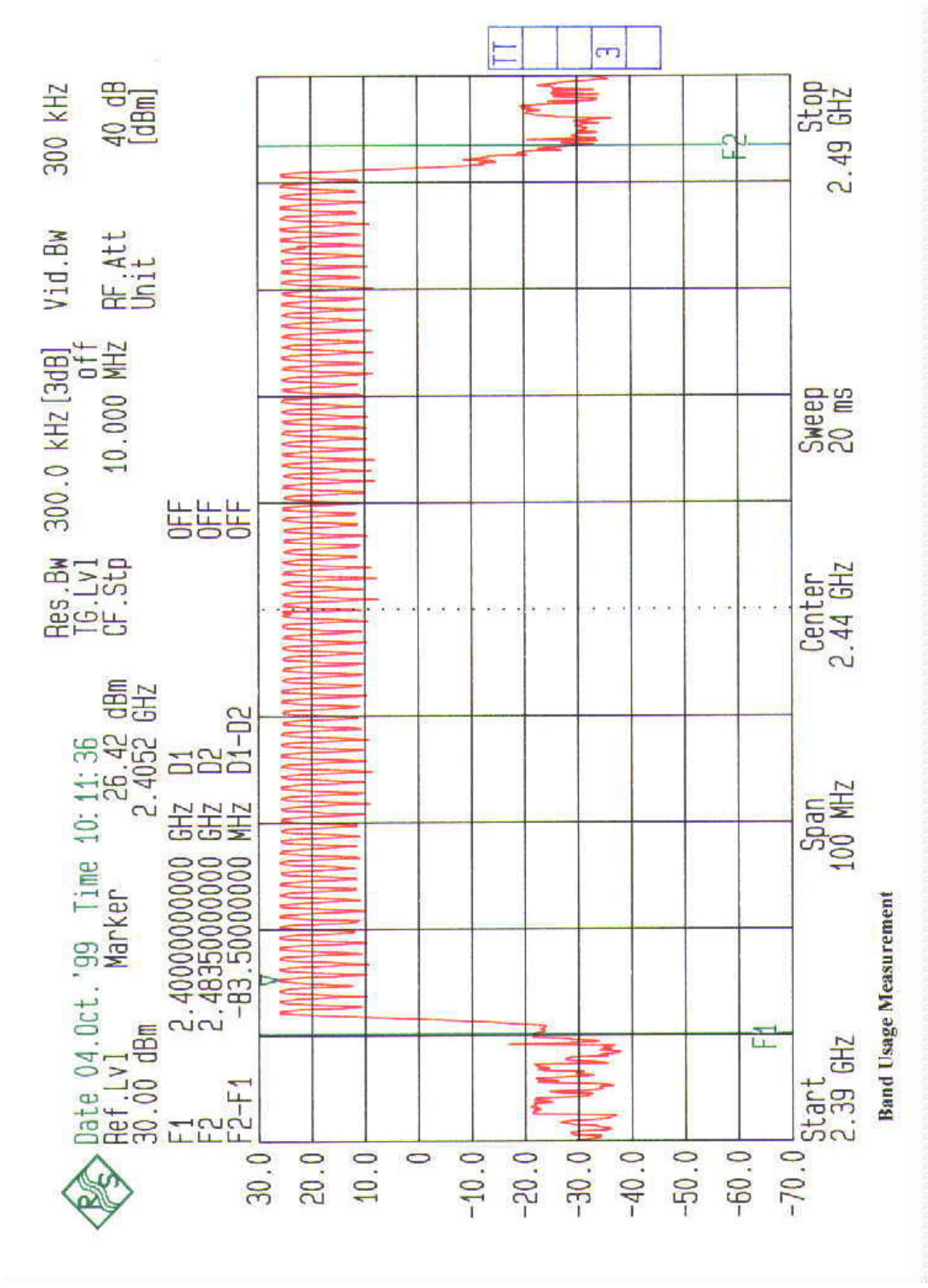
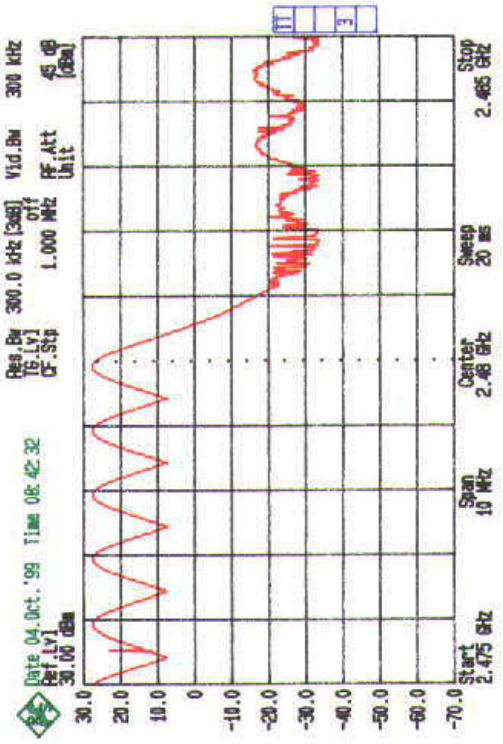
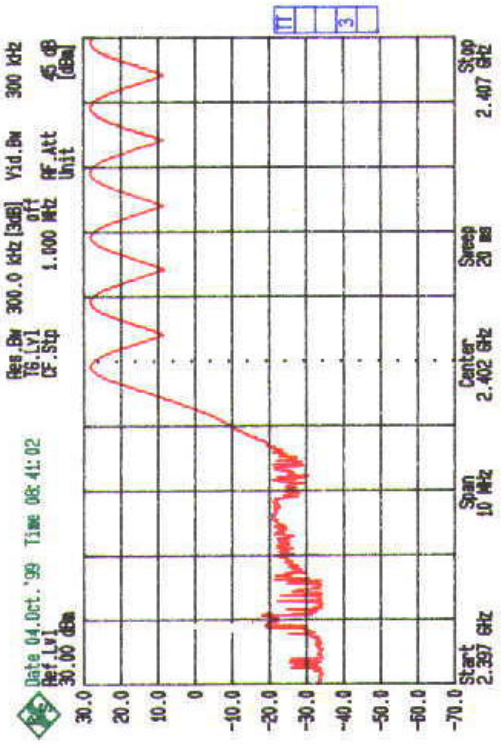
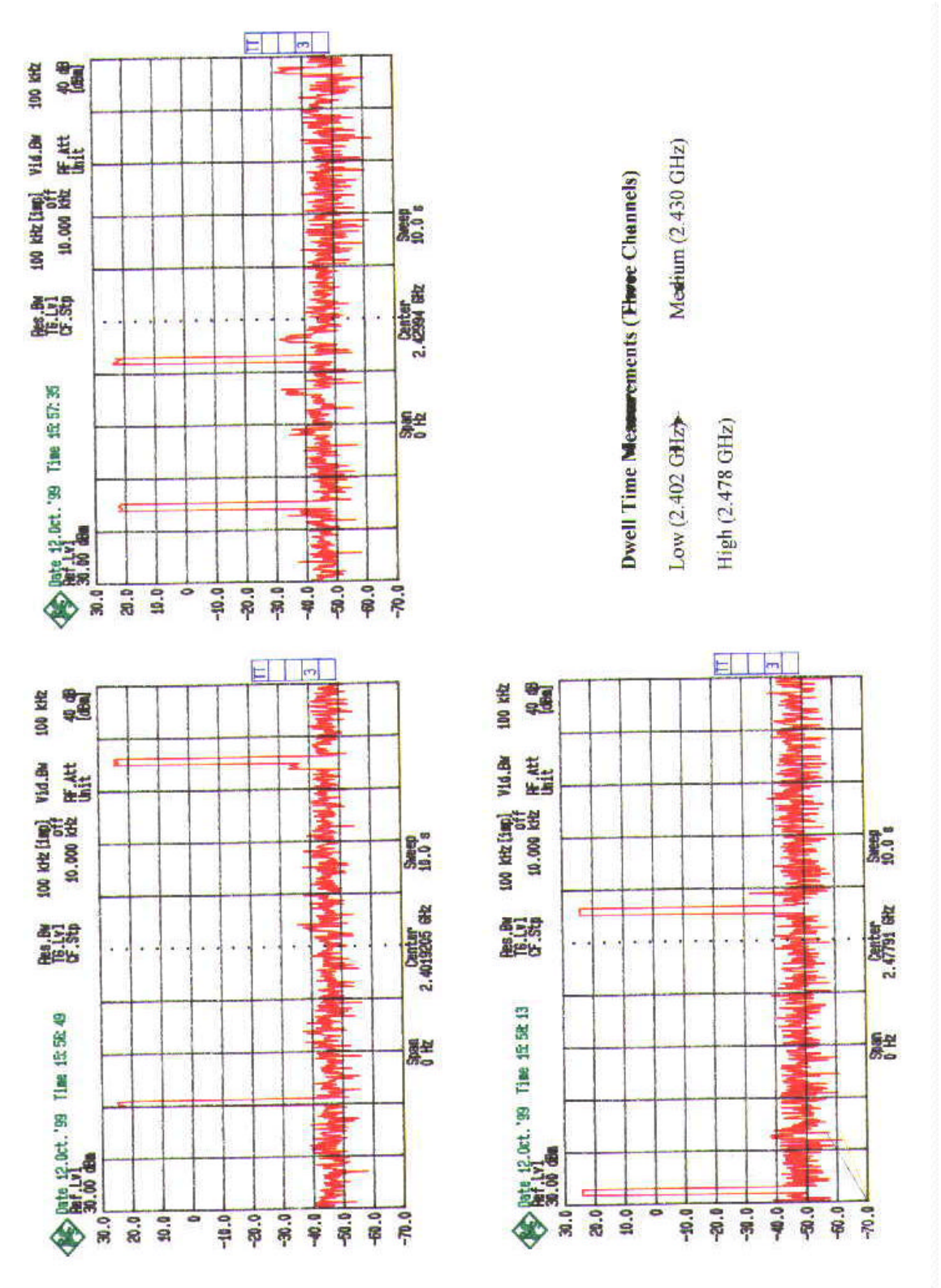

Date 04.Oct.'99 Time 10:11:36
Ref.Lvl 26.42 dBm
30.00 dBm Marker 2.4052 GHz
F1 2.4000000000 GHz D1
F2 2.4835000000 GHz D2
F2-F1 -83.50000000 MHz D1-D2
Res.Bw 300.0 kHz [3dB] Vid.Bw 300 kHz
TG.Lvl off
CF.Stp 10.000 MHz RF.Att 40 dB
Unit [dBm]
OFF
OFF
OFF
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
F1
F2
TT
3
Start 2.39 GHz
Span 100 MHz
Center 2.44 GHz
Sweep 20 ms
Stop 2.49 GHz
Band Usage Measurement



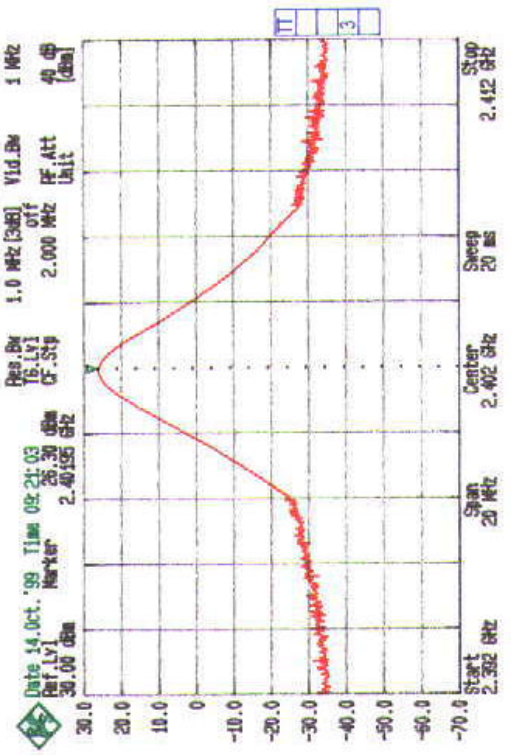


Band Edge Measurement

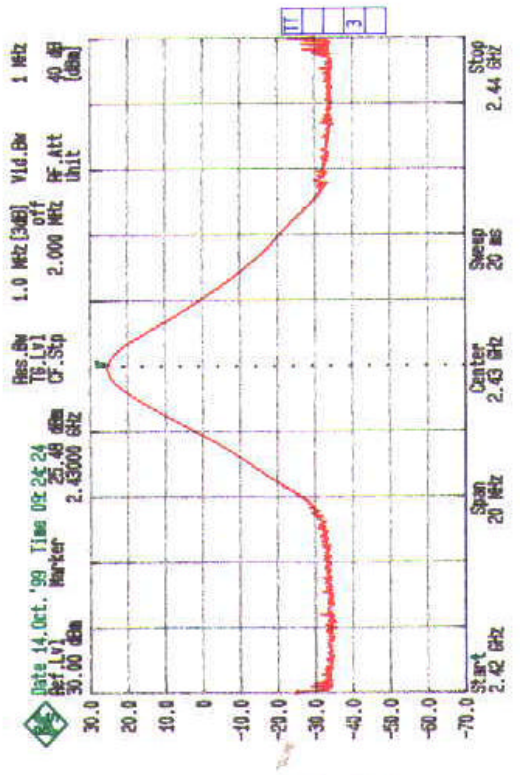

Dwell Time Measurements (Three Channels)
Low (2.402 GHz)
Medium (2.430 GHz)
High (2.478 GHz)

Peak Power Measurements (Three Channels)

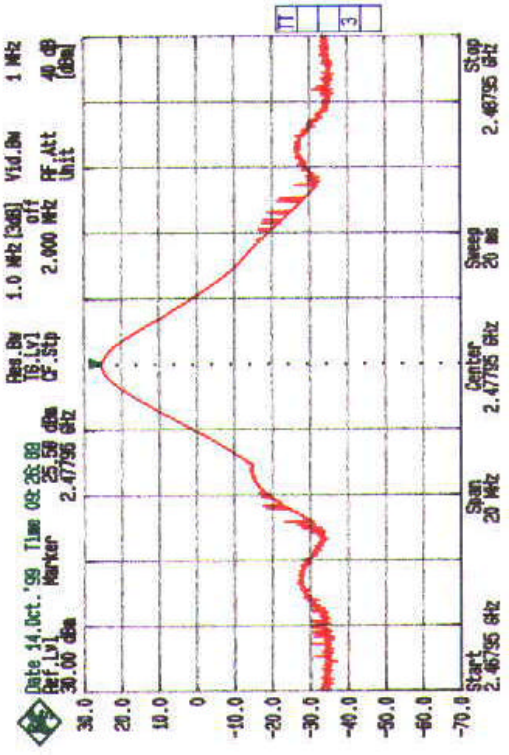
Low (2.402 GHz)



Medium (2.430 GHz)



High (2.478 GHz)



5 TEST DATA AND RESULTS (continued)

5.3 Channel Bandwidth Measurement

5.3.1 Procedure

The EUT was put into a continuous transmit mode. The analyzer was set to a 1 MHz span around the selected channel with 100 kHz resolution bandwidth and 100 kHz video bandwidth. The analyzer was put into max hold mode and the peak value measured. A threshold line was put 20 dB below the peak. Two markers were set at the intersection of the signal and the 20 dB line. The frequency difference between the markers was recorded as the 20 dB bandwidth. A 6 dB external attenuator was used and compansated in the measurement. Cable losses were automatically compensated by the analyzer. The same procedure was repeated for three different channels (low, medium and high) to cover the transmit range.

5.3.2 Results

The widest 20 dB bandwidth measured was 435 kHz BW at 2.430 GHz. The other two were 381 kHz at 2.402 GHz and 360 kHz at 2.478 GHz. All bandwidths were below the required limit of 1 MHz.

5.4 Conducted Out-of-band Emissions

5.4.1 Procedure

The EUT was put into continuous transmit mode. The analyzer was set to 1 MHz RBW and 1 MHz VBW. Then four scans were performed in max hold mode with 30 MHz - 1 GHz, 1 GHz – 3 GHz, 3 GHz - 10 GHz and 10 GHz – 24 GHz ranges. Also the 50 MHz region around the fundamental was investigated. Found peaks are listed in the results section. A 6 dB external attenuator was used and compansated in the measurements. Cable losses were automatically compensated by the analyzer. The measurements were repeated for channels at 2.402 GHz, 2.440 GHz and 2.480 GHz.

5.4.2 Results

Plots in following pages show the harmonic and spurious out-of-band emissions of the EUT measured at the antenna connector. All found peaks and their margins are listed in the following tables The EUT was found compliant with the requirements for conducted out-of-band emissions.

For file size reasons this report has been split into four sections. For the rest of the report, please see the next file.