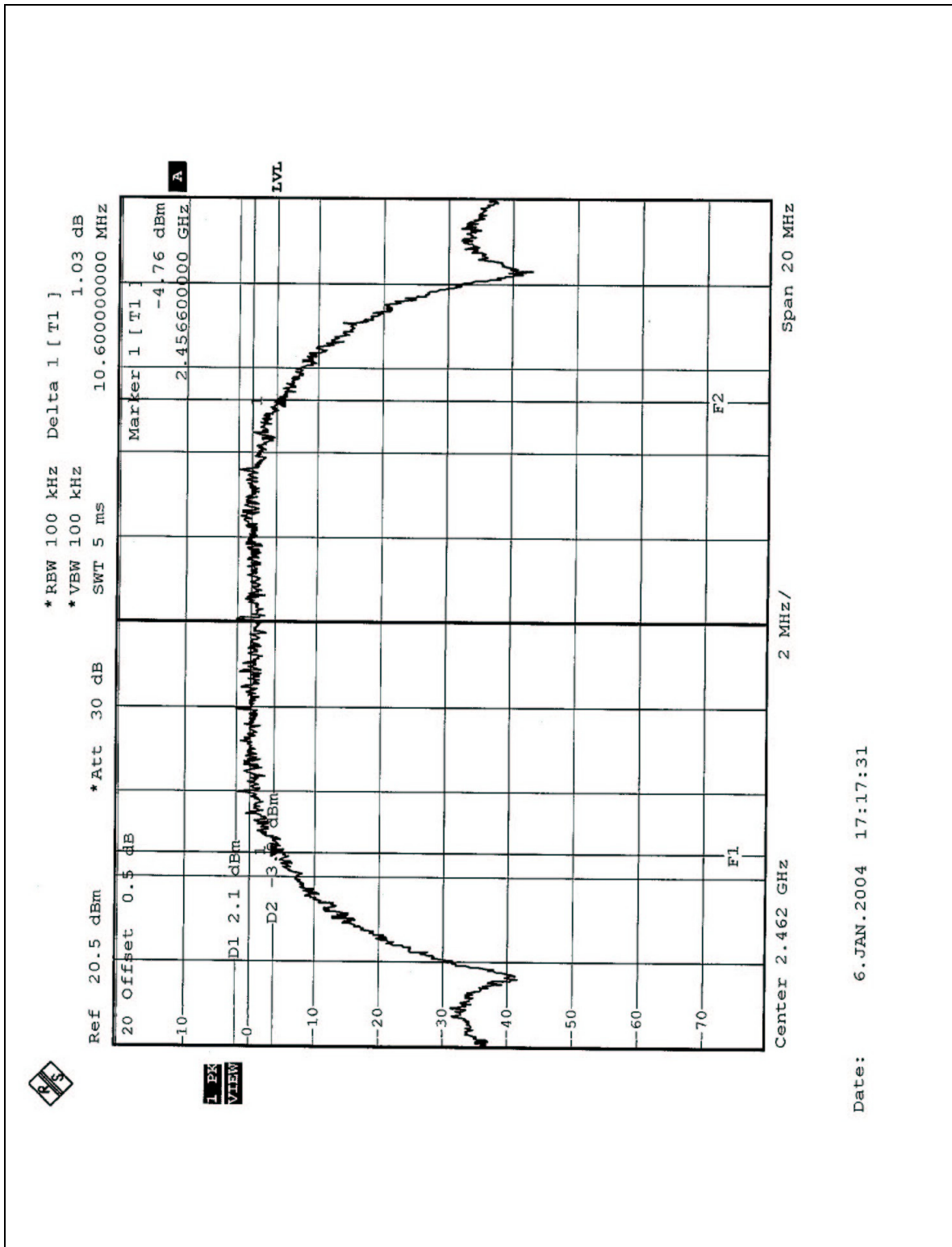




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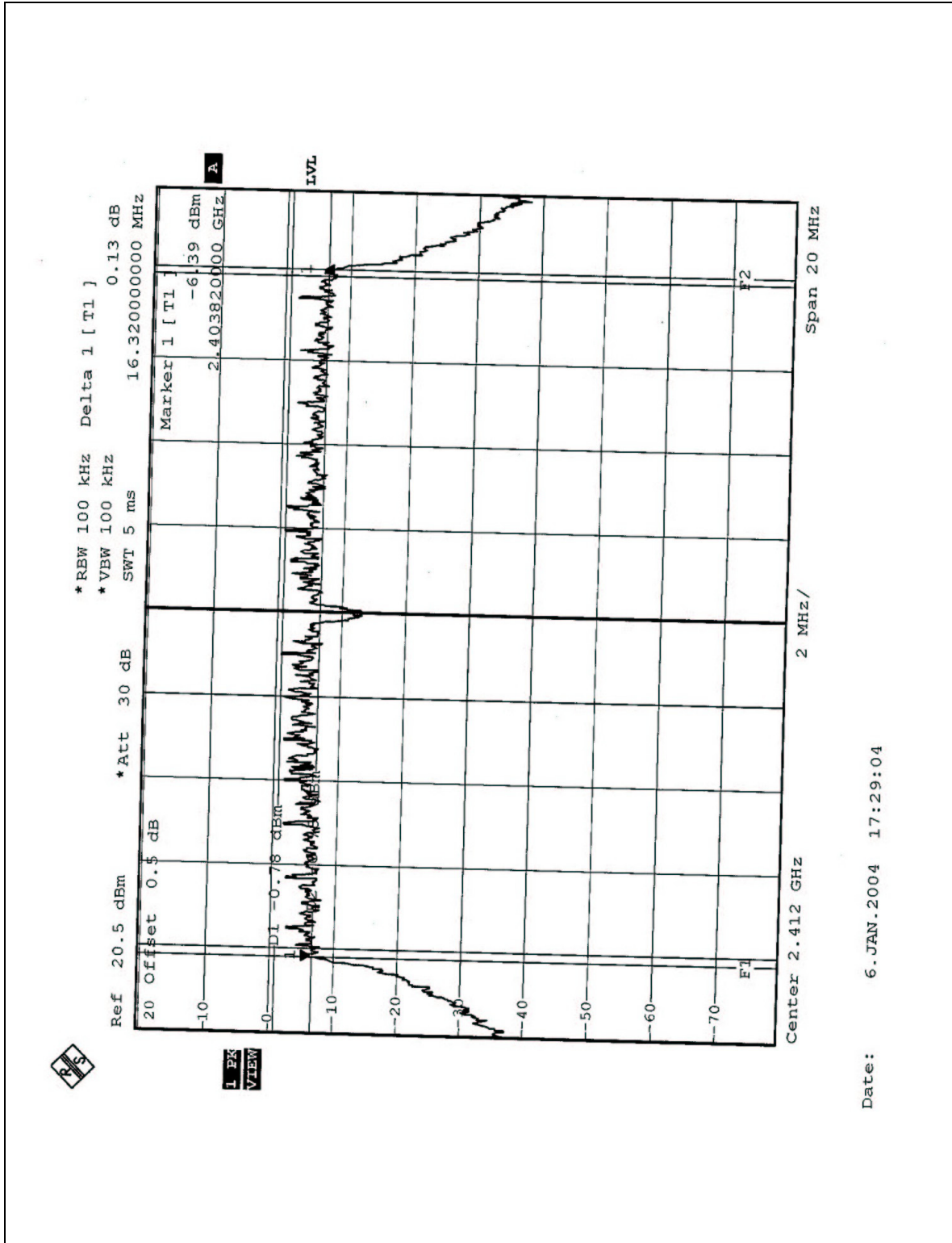


|                                     |  |                                 |               |
|-------------------------------------|--|---------------------------------|---------------|
| <b>EUT</b>                          | Notebook PC with<br>802.11b/g Wireless LAN | <b>MODEL</b>                    | 3200 Series   |
| <b>MODULATION<br/>MODE</b>          | OFDM                                       | <b>INPUT POWER<br/>(SYSTEM)</b> | 120Vac, 60 Hz |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 20deg. C, 60%RH,<br>1005hPa                | <b>TESTED BY:</b> Jamison Chan  |               |

| <b>CHANNEL</b> | <b>CHANNEL<br/>FREQUENCY<br/>(MHz)</b> | <b>6dB BANDWIDTH<br/>(MHz)</b> | <b>MINIMUM<br/>LIMIT<br/>(MHz)</b> | <b>PASS/FAIL</b> |
|----------------|--|--------------------------------|------------------------------------|------------------|
| 1              | 2412                                   | 16.32                          | 0.5                                | PASS             |
| 6              | 2437                                   | 16.32                          | 0.5                                | PASS             |
| 11             | 2462                                   | 16.32                          | 0.5                                | PASS             |



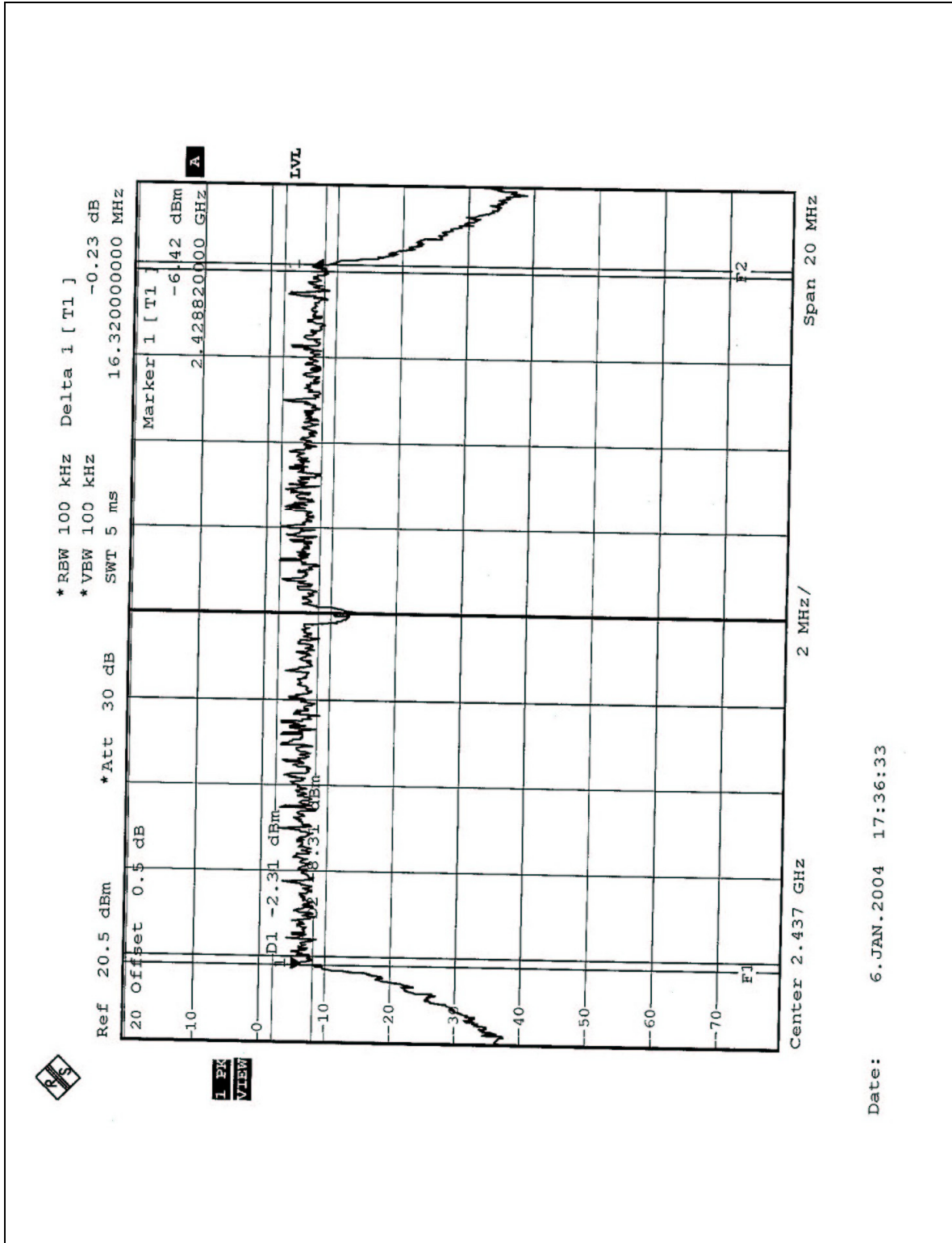
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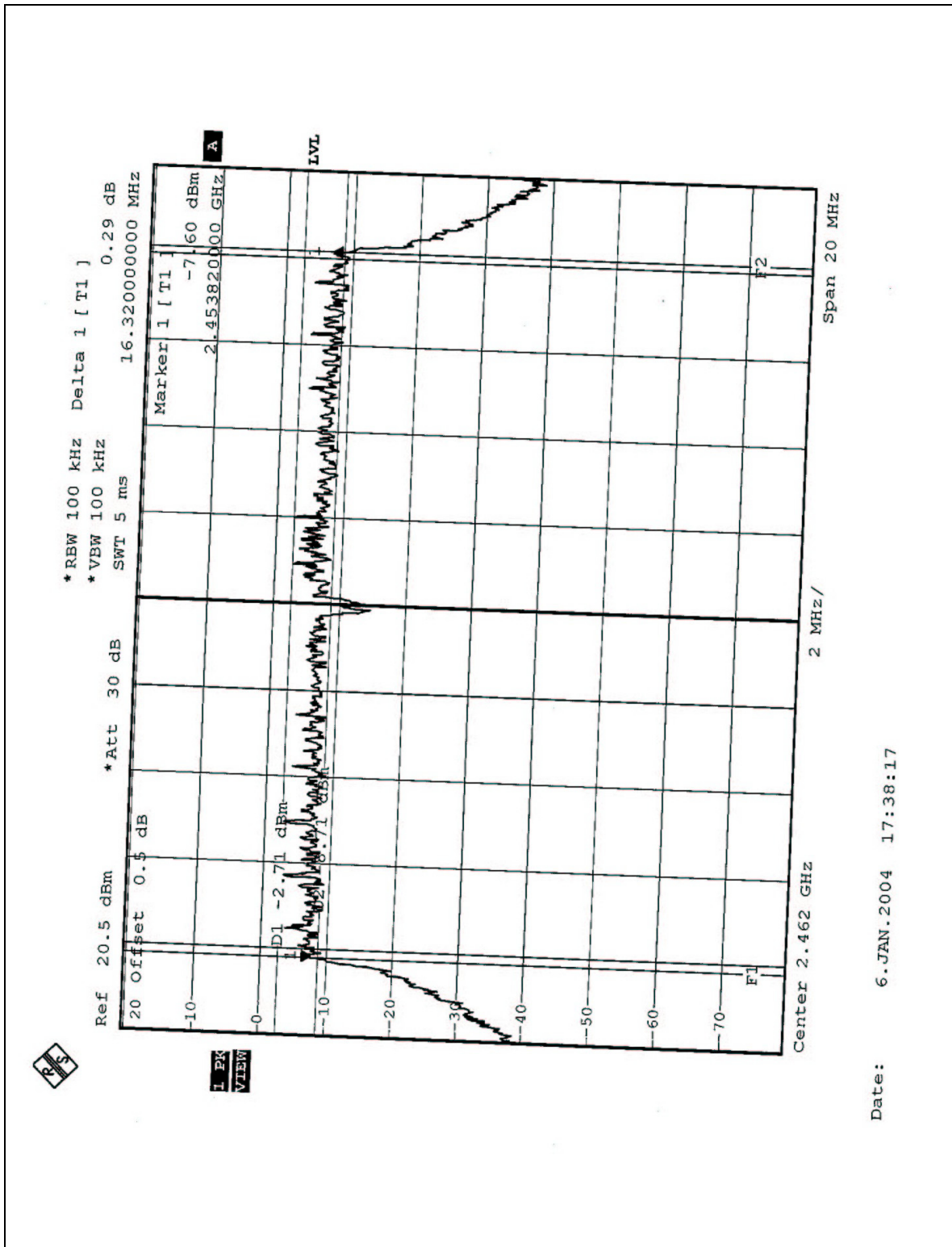
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## 4.4 MAXIMUM PEAK OUTPUT POWER

### 4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

### 4.4.2 TEST INSTRUMENTS

| Description & Manufacturer           | Model No. | Serial No. | Calibrated Until |
|--------------------------------------|-----------|------------|------------------|
| ROHDE & SCHWARZ<br>Spectrum Analyzer | FSP 40    | 100035     | Apr. 14. 2004    |
| ROHDE & SCHWARZ<br>Signal Generator  | SMR40     | 100231     | Apr. 07. 2004    |
| Tektronix Oscilloscope               | TDS 220   | B047470    | Mar. 05, 2004    |
| Narda Detector                       | 4503A     | FSCM99899  | NA               |

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

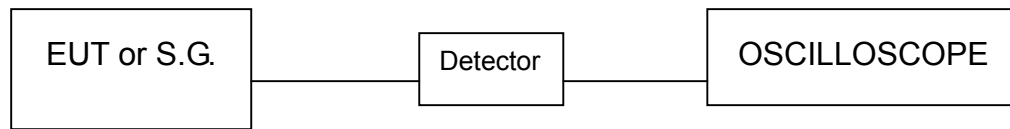
### 4.4.3 TEST PROCEDURE

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the peak response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G. was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same peak reading on oscilloscope. Record the power level.

### 4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4.5 TEST SETUP



#### 4.4.6 EUT OPERATING CONDITION

Same as Item 4.3.6.



#### 4.4.7 TEST RESULTS

|                                     |  |                                 |               |
|-------------------------------------|--|---------------------------------|---------------|
| <b>EUT</b>                          | Notebook PC with<br>802.11b/g Wireless LAN | <b>MODEL</b>                    | 3200 Series   |
| <b>MODULATION<br/>MODE</b>          | CCK  | <b>INPUT POWER<br/>(SYSTEM)</b> | 120Vac, 60 Hz |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 20deg. C, 60%RH,<br>1005hPa                | <b>TESTED BY:</b> Jamison Chan  |               |

| <b>CHANNEL</b> | <b>CHANNEL<br/>FREQUENCY<br/>(MHz)</b> | <b>PEAK POWER<br/>OUTPUT<br/>(dBm)</b> | <b>PEAK POWER<br/>LIMIT<br/>(dBm)</b> | <b>PASS/FAIL</b> |
|----------------|--|--|---------------------------------------|------------------|
| 1              | 2412                                   | 15.04                                  | 30                                    | PASS             |
| 6              | 2437                                   | 15.02                                  | 30                                    | PASS             |
| 11             | 2462                                   | 15.06                                  | 30                                    | PASS             |





|                                     |  |                                 |               |
|-------------------------------------|--|---------------------------------|---------------|
| <b>EUT</b>                          | Notebook PC with<br>802.11b/g Wireless LAN | <b>MODEL</b>                    | 3200 Series   |
| <b>MODULATION<br/>MODE</b>          | OFDM                                       | <b>INPUT POWER<br/>(SYSTEM)</b> | 120Vac, 60 Hz |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 20deg. C, 60%RH,<br>1005hPa                | <b>TESTED BY:</b> Jamison Chan  |               |

| <b>CHANNEL</b> | <b>CHANNEL<br/>FREQUENCY<br/>(MHz)</b> | <b>PEAK POWER<br/>OUTPUT<br/>(dBm)</b> | <b>PEAK POWER<br/>LIMIT<br/>(dBm)</b> | <b>PASS/FAIL</b> |
|----------------|--|--|---------------------------------------|------------------|
| 1              | 2412                                   | 15.14                                  | 30                                    | PASS             |
| 6              | 2437                                   | 15.08                                  | 30                                    | PASS             |
| 11             | 2462                                   | 15.06                                  | 30                                    | PASS             |



## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

### 4.5.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSP 40    | 100035     | Apr. 14. 2004    |

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

### 4.5.3 TEST PROCEDURE

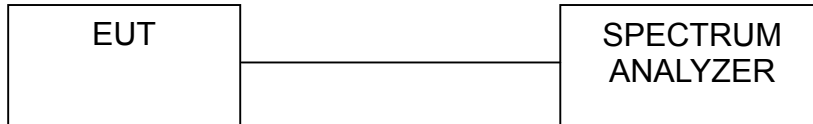
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

### 4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.5.5 TEST SETUP



#### 4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6.



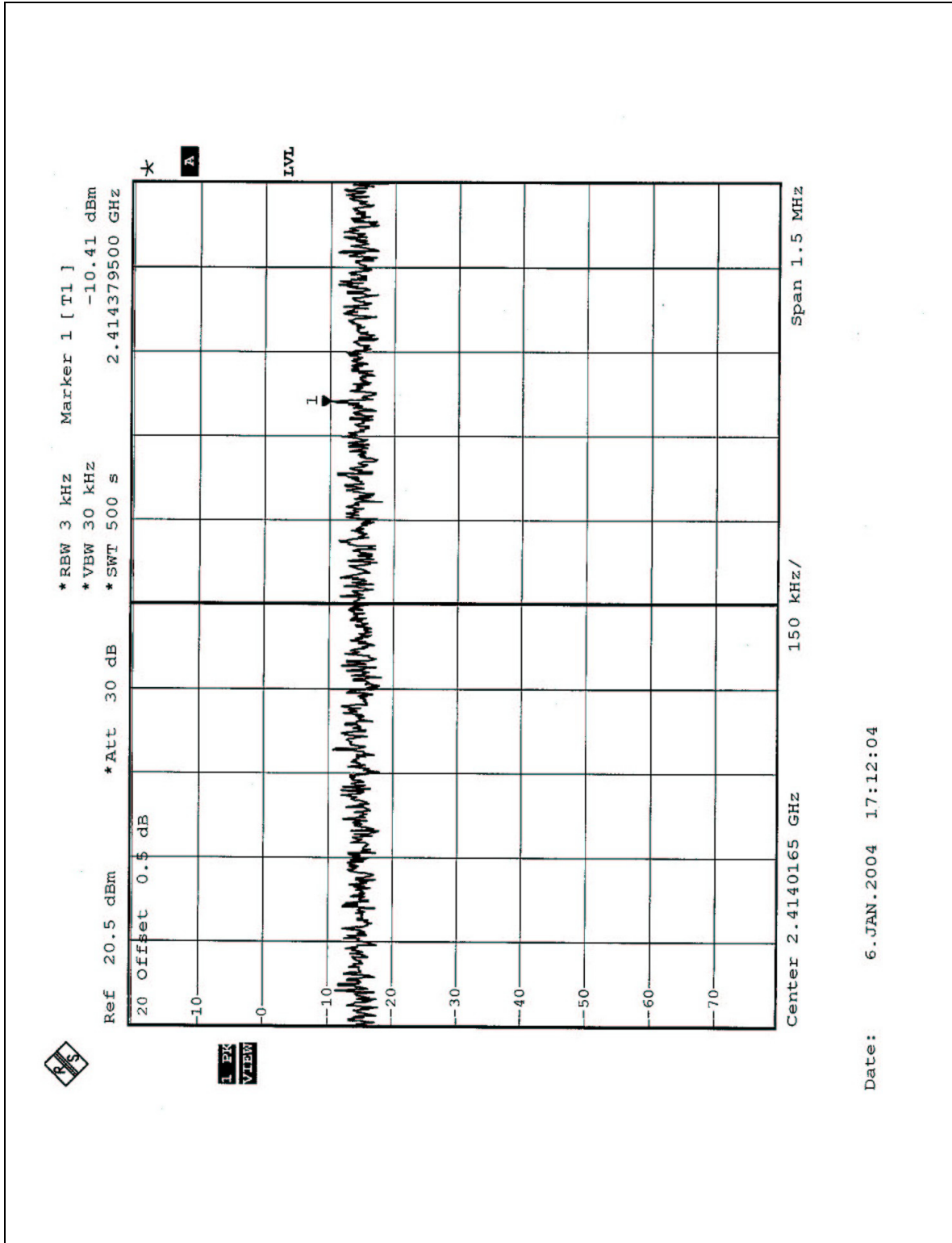
#### 4.5.7 TEST RESULTS

|                                     |  |                                 |               |
|-------------------------------------|--|---------------------------------|---------------|
| <b>EUT</b>                          | Notebook PC with<br>802.11b/g Wireless LAN | <b>MODEL</b>                    | 3200 Series   |
| <b>MODULATION<br/>MODE</b>          | CCK  | <b>INPUT POWER<br/>(SYSTEM)</b> | 120Vac, 60 Hz |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 20deg. C, 60%RH,<br>1005hPa                | <b>TESTED BY:</b> Jamison Chan  |               |

| <b>CHANNEL</b> | <b>CHANNEL<br/>FREQUENCY<br/>(MHz )</b> | <b>RF POWER LEVEL<br/>IN 3kHz BW<br/>(dBm)</b> | <b>MAXIMUM<br/>LIMIT<br/>(dBm)</b> | <b>PASS/FAIL</b> |
|----------------|---|--|------------------------------------|------------------|
| 1              | 2412                                    | -10.41   | 8                                  | PASS             |
| 6              | 2437                                    | -10.33   | 8                                  | PASS             |
| 11             | 2462                                    | -12.57   | 8                                  | PASS             |



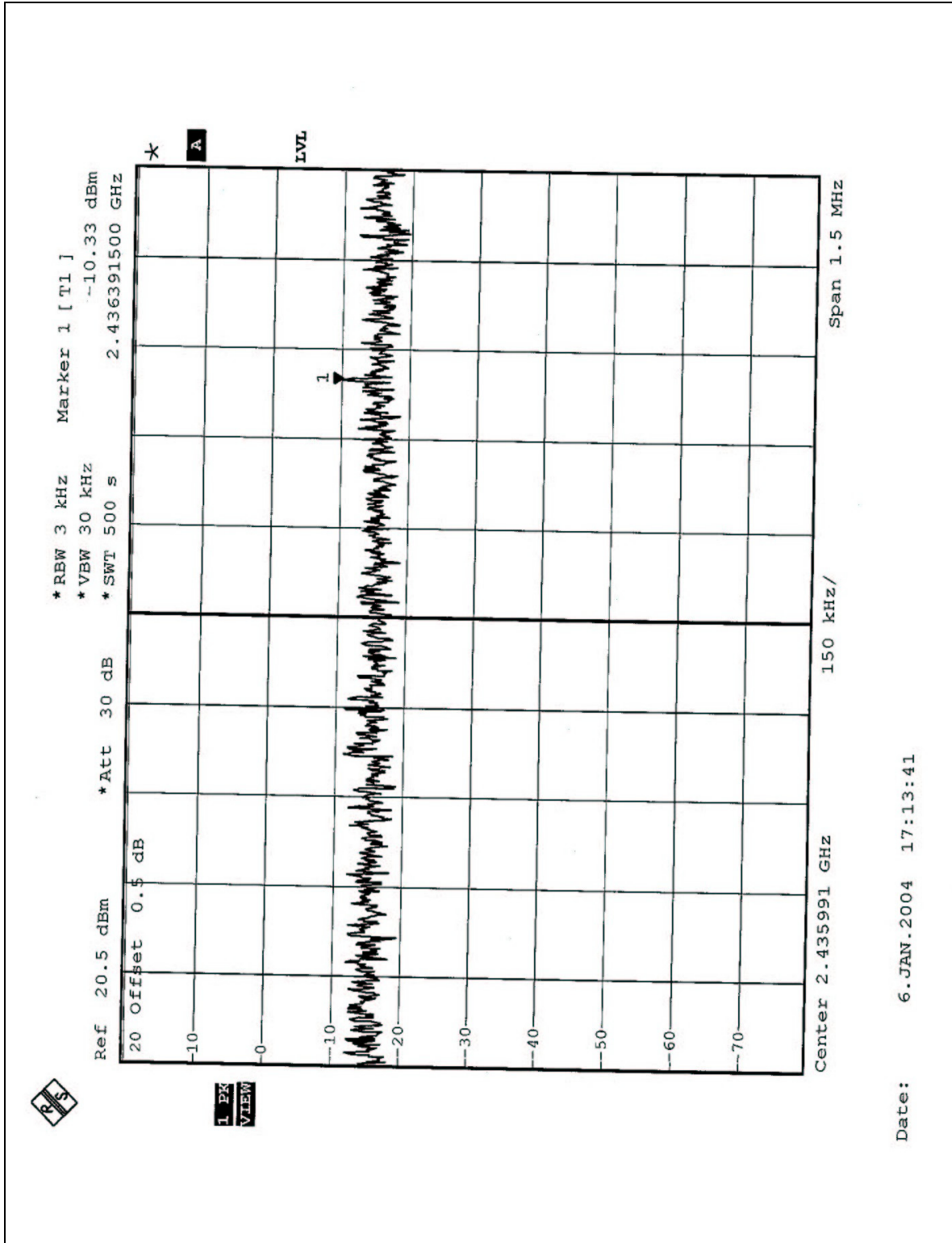
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