



FCC TEST REPORT

REPORT NO.: RF911122A11

MODEL NO.: SC800, SC500, SC300

RECEIVED: Nov. 21, 2002

TESTED: Nov. 26, 2002 ~ Jan. 1, 2003

APPLICANT: Tatung Co.

ADDRESS: 22, ChungShan N. Rd., 3rd Sec., Taipei, Taiwan,
R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan,
R.O.C.

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0528
ILAC MRA



Lab Code: 200102-0



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1 CERTIFICATION

PRODUCT : Tablet PC
MODEL NO. : SC800, SC500, SC300
BRAND : Electrovaya
APPLICANT : Tatung Co.
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.247),
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Nov. 26, 2002 ~ Jan. 1, 2003, The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

CHECKED BY: Rennie Wang, **DATE:** January 5, 2003
Rennie Wang

APPROVED BY: Dr. Alan Lane for, **DATE:** January 5, 2003
Dr. Alan Lane
Manager



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: 47 CFR Part 15, Subpart C | | | |
|--|---|---------------|--|
| Standard Section | Test Type and Limit | Result | REMARK |
| 15.207 | AC Power Conducted Emission Limit: 48dBuV | PASS | Meet the requirement of limit Minimum passing margin is -22.54dBuV at 2.048MHz |
| 15.247(a)(2) | Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz | PASS | Meet the requirement of limit |
| 15.247(b) | Maximum Peak Output Power Limit: max. 30dBm | PASS | Meet the requirement of limit |
| 15.247(c) | Transmitter Radiated Emissions Limit: Table 15.209 | PASS | Meet the requirement of limit Minimum passing margin is -10.70dBuV at 144.20MHz |
| 15.247(d) | Power Spectral Density Limit: max. 8dBm | PASS | Meet the requirement of limit |
| 15.247(c) | Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency | PASS | Meet the requirement of limit |



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|----------------------------------|-----------------------|
| PRODUCT | Tablet PC |
| MODEL NO. | SC800, SC500, SC300 |
| POWER SUPPLY | 12VDC from AC adapter |
| MODULATION TYPE | BPSK, QPSK, CCK |
| RADIO TECHNOLOGY | DSSS |
| TRANSFER RATE | 1/2/5.5/11Mbps |
| FREQUENCY RANGE | 2412MHz ~ 2462MHz |
| BANDWIDTH OF EACH CHANNEL | 22MHz |
| NUMBER OF CHANNEL | 11 |
| OUTPUT POWER | 18.42dBm |
| ANTENNA TYPE | Printed Antenna |
| DATA CABLE | 1.8m (Non-shielded) |
| I/O PORTS | NA |
| ASSOCIATED DEVICES | NA |

NOTE:

- There are three models provided to this EUT. Model SC800 uses PIII 866MHz CPU, two 256MB memories and fingerprint identification function. Model SC500 uses PIII 866MHz CPU, two 256MB memories but without fingerprint identification function. Model SC300 uses CELERON 733MHz CPU, one 256MB memory but without fingerprint identification function.
- This EUT was operated with the following power adapter:

| | |
|-----------------------|---------------------------|
| Brand : | HIPRO |
| Model No. : | HP-OD042D03 |
| Input power : | 100-240Vac, 50-60Hz, 1.2A |
| Output power : | 12Vdc, 3.5A |

- For more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1 | 2412 MHz | 7 | 2442 MHz |
| 2 | 2417 MHz | 8 | 2447 MHz |
| 3 | 2422 MHz | 9 | 2452 MHz |
| 4 | 2427 MHz | 10 | 2457 MHz |
| 5 | 2432 MHz | 11 | 2462 MHz |
| 6 | 2437 MHz | | |

NOTE:

1. Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.
3. The model SC800 was chosen be the worse case to do the test.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Table PC. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 15, Subpart C. (15.247)

ANSI C63.4 : 1992

All tests have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|----------------------|-----------|----------------------|----------------------|----------------------|
| 1 | MONITOR | ADI | CM100 | 020058T102001 80 | FCC DoC APPROVED |
| 2 | MO DRIVER | FUJITSU | MDF3064EE | 05000997 | FCC DoC APPROVED |
| 3 | USB MOUSE | Geniusnet | 828 U+P | 66820011004448 | FCC DoC APPROVED |
| 4 | SPEAKER | JAZZ | J-008 | J791149 | N/A |
| 5 | MICROPHONE | CAROL | MUD-329 | | N/A |
| 6 | PERSONAL COMPUTER | NTI | PIII450 | P201178 | FCC DoC APPROVED |
| 7 | MONITOR | ADI | PV-448 | 604012V001002 37A | BR8PV-448 |
| 8 | PS/2 KEYBOARD | BTC | 5121W | A00801380 | E5XKB5121WTH01 10 |
| 9 | PS/2 MOUSE | DEXIN | A2P800A | 80102095 | NIYA2P800A |
| 10 | LAN CARD | HP | EN1207D-TX- 4A-18 | ACC000214410 | FCC DoC APPROVED |
| 11 | EPABX | VIDAR-SMS | EASYSWITCH PX-4 | 95080283 | N/A |
| 12 | MODEM | ACTIONTEC | EX560RK | 119W0007 | FCC DoC APPROVED |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | 1.8 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core |
| 2 | 1.8 m braid shielded wire, terminated with IEEE 1394 connector via drain wire, w/o cor |
| 3 | 1.5 m foil shielded wire, terminated with USB connector via drain wire, w/o core. |
| 4 | 1.1 m wrapped shielded wire, terminated via drain wire, with 3.5 mm phone plug, w/o core. |
| 5 | 3.0 m wrapped shielded wire, terminated via drain wire, with 3.5 mm phone plug, w/o core. |
| 6 | NA |
| 7 | NA |
| 8 | 1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core. |
| 9 | 1.5 m foil shielded wire, terminated with PS/2 connector via drain wire, w/o core. |
| 10 | NA |
| 11 | NA |
| 12 | NA |

NOTE: All power cords of the above support units are non shielded (1.8m).



4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB μ V) | |
|-----------------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 | 56 to 46 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|--|-----------|--------------|------------------|
| ROHDE & SCHWARZ Test Receiver | ESHS30 | 828109/007 | July 03, 2003 |
| ROHDE & SCHWARZ Artificial Mains Network (for EUT) | ESH3-Z5 | 839135/006 | July 02, 2003 |
| * ROHDE & SCHWARZ 4-wire ISN | ENY41 | 838119/028 | Nov. 29, 2003 |
| * ROHDE & SCHWARZ 2-wire ISN | ENY22 | 837497/016 | Nov. 29, 2003 |
| EMCO-L.I.S.N. (for peripheral) | 3825/2 | 9204-1964 | July 02, 2003 |
| Software | Cond-V2M1 | NA | NA |
| RF cable (JYEBAO) | 5D-FB | Cable-C02.01 | July 5, 2003 |
| HP Terminator (For EMCO LISN) | 11593A | E1-01-298 | Feb. 20, 2003 |
| HP Terminator (For EMCO LISN) | 11593A | E1-01-299 | Feb. 20, 2003 |

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. “*”: These equipment are used for conducted telecom port test only (if tested).
 3. The test was performed in ADT Shielded Room No. 2.
 4. The VCCI Site Registration No. is C-240.

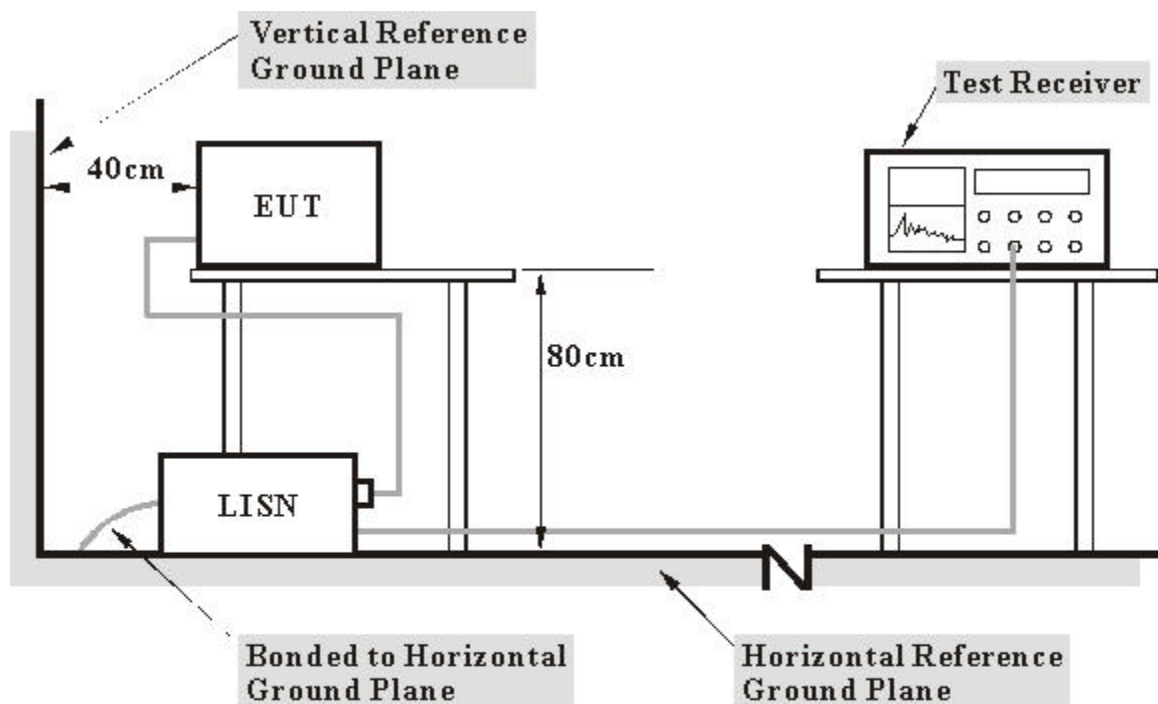
4.1.3 TEST PROCEDURES

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of all equipment.
- b. EUT ran a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. EUT read and wrote messages from ext. MO.
- d. EUT sent and received messages from WORKSTATION PC via a UTP cable and a telephone cable.
- e. EUT sent "H" messages to monitor. Then monitor displayed "H" messages on its screen.
- f. EUT sent audio messages to earphone.
- g. Steps c-f were repeated.



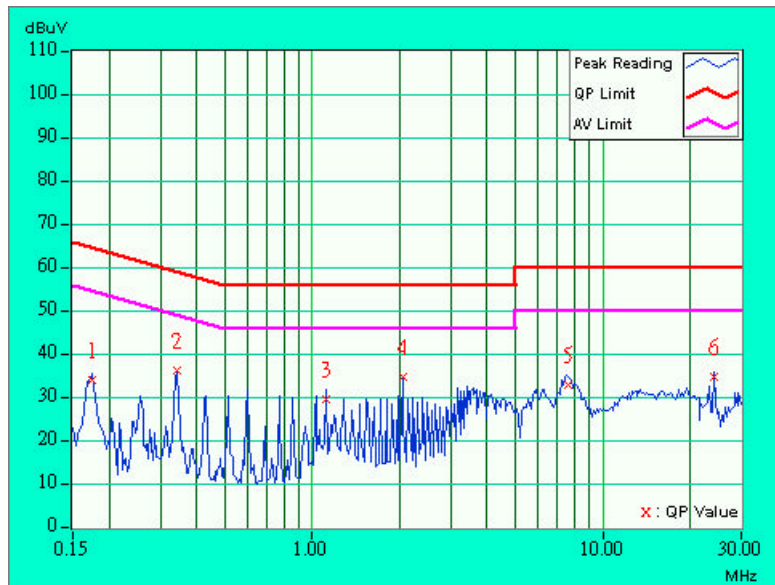
4.1.7 TEST RESULTS

| | | | |
|---------------------------------|-------------------------------|------------------------------|----------|
| EUT | Tablet PC | MODEL | SC800 |
| MODE | Channel 11 | 6dB BANDWIDTH | 10 kHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | PHASE | Line (L) |
| ENVIRONMENTAL CONDITIONS | 24 deg. C, 71%RH, 1005 hPa | TESTED BY: Martin Lee | |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|--------|--------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | [MHz] | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.174 | 0.10 | 32.76 | - | 32.86 | - | 64.77 | 54.77 | -31.91 | - |
| 2 | 0.344 | 0.10 | 35.00 | - | 35.10 | - | 59.11 | 49.11 | -24.01 | - |
| 3 | 1.116 | 0.10 | 28.35 | - | 28.45 | - | 56.00 | 46.00 | -27.55 | - |
| 4 | 2.048 | 0.10 | 33.36 | - | 33.46 | - | 56.00 | 46.00 | -22.54 | - |
| 5 | 7.560 | 0.48 | 31.57 | - | 32.05 | - | 60.00 | 50.00 | -27.95 | - |
| 6 | 24.046 | 1.28 | 33.71 | - | 34.99 | - | 60.00 | 50.00 | -25.01 | - |

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.



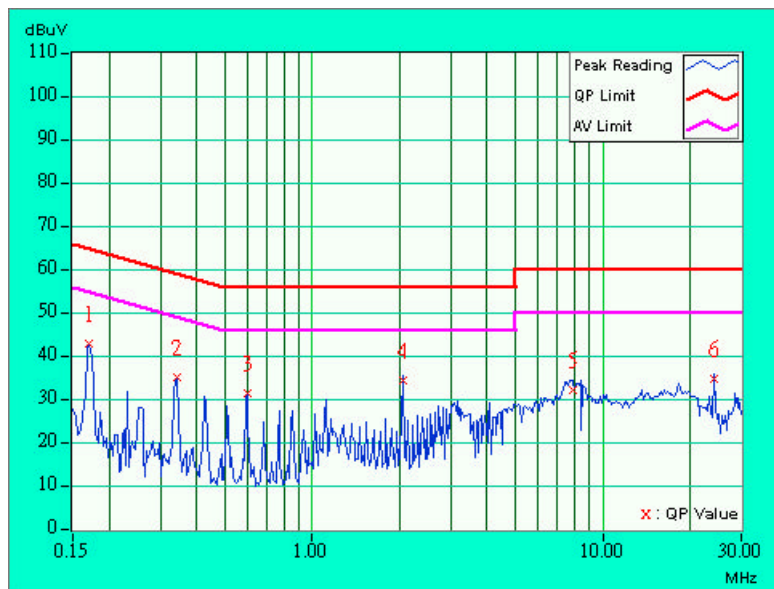


| | | | |
|---------------------------------|-------------------------------|------------------------------|-------------|
| EUT | Tablet PC | MODEL | SC800 |
| MODE | Channel 11 | 6dB BANDWIDTH | 10 kHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | PHASE | Neutral (N) |
| ENVIRONMENTAL CONDITIONS | 24 deg. C, 71%RH, 1005 hPa | TESTED BY: Martin Lee | |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|--------|--------------|-------------------------|------|--------------------------|------|-----------------|-------|-------------|------|
| | [MHz] | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. |
| 1 | 0.171 | 0.10 | 41.66 | - | 41.76 | - | 64.91 | 54.91 | -23.15 | - |
| 2 | 0.342 | 0.10 | 34.04 | - | 34.14 | - | 59.15 | 49.15 | -25.01 | - |
| 3 | 0.599 | 0.10 | 30.39 | - | 30.49 | - | 56.00 | 46.00 | -25.51 | - |
| 4 | 2.049 | 0.10 | 33.10 | - | 33.20 | - | 56.00 | 46.00 | -22.80 | - |
| 5 | 7.875 | 0.36 | 31.13 | - | 31.49 | - | 60.00 | 50.00 | -28.51 | - |
| 6 | 24.046 | 1.16 | 33.51 | - | 34.67 | - | 60.00 | 50.00 | -25.33 | - |

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| Frequencies (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|--|--------------------|--------------------------|------------------|
| *HP Spectrum Analyzer | 8590L | 3520A00667 | Aug. 26, 2003 |
| *CHASE Preamplifier | CPA9231A/4 | 3215 | Nov. 06, 2003 |
| * HP Preamplifier | 8449B | 3008A01201 | Dec. 01, 2003 |
| * HP Preamplifier | 8449B | 3008A01292 | Aug. 07, 2003 |
| * ROHDE & SCHWARZ TEST RECEIVER | ESVS10 | 846285/012 | Sept. 16, 2003 |
| * ROHDE & SCHWARZ TEST RECEIVER | ESMI | 839013/007 839379/002 | Jan. 27, 2003 |
| SCHAFFNER Tunable Dipole Antenna | VHBA 9123 | 459 | Nov. 22, 2003 |
| SCHWARZBECK Tunable Dipole Antenna | UHA 9105 | 977 | |
| * CHASE BILOG Antenna | CBL6112B | 2751 | March 30, 2003 |
| * SCHWARZBECK Horn Antenna | BBHA9120-D1 | D130 | July 3, 2003 |
| * EMCO Horn Antenna | 3115 | 9312-4192 | April 9, 2003 |
| * CHANCE Turn Table & Tower Controller | ACS-I | NA | NA |
| * Software | ADT_Radiated_V5.09 | NA | NA |
| * ANRITSU RF Switches | MP59B | M51167 | Aug. 21, 2003 |
| * TIMES RF cable | LMR-600 | CABLE-ST6-01 | Aug. 21, 2003 |

- NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
2. "*" = These equipment are used for the final measurement.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The test was performed in ADT Open Site No. 6.
5. The VCCI Site Registration No. is R-728.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

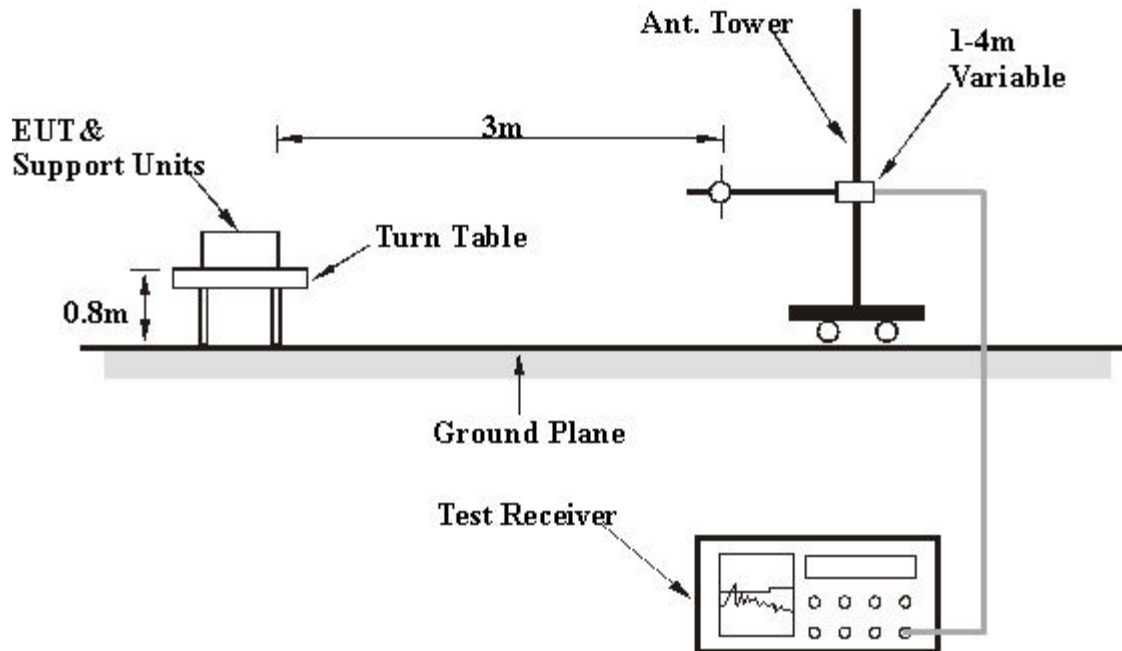
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



4.2.7 TEST RESULTS

| | | | |
|---------------------------------|---------------------------------|------------------------------|----------------|
| EUT | Tablet PC | MODEL | SC800 |
| MODE | Channel 11 | FREQUENCY RANGE | Below 1000 MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 20 deg. C, 59 % RH, 1050 hPa | TESTED BY: Martin Lee | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 120.00 | 30.0 QP | 43.50 | -13.50 | 1.10 H | 35 | 17.30 | 12.70 |
| 2 | 133.50 | 30.6 QP | 43.50 | -12.90 | 1.30 H | 210 | 18.30 | 12.30 |
| 3 | 144.20 | 32.1 QP | 43.50 | -11.40 | 1.26 H | 240 | 20.40 | 11.80 |
| 4 | 167.20 | 29.8 QP | 43.50 | -13.70 | 1.76 H | 200 | 19.40 | 10.40 |
| 5 | 220.00 | 26.7 QP | 46.00 | -19.30 | 1.93 H | 25 | 15.30 | 11.40 |
| 6 | 240.00 | 26.6 QP | 46.00 | -19.40 | 1.00 H | 259 | 14.00 | 12.60 |
| 7 | 271.00 | 24.2 QP | 46.00 | -21.80 | 1.56 H | 352 | 10.40 | 13.80 |
| 8 | 308.02 | 19.0 QP | 46.00 | -27.00 | 1.05 H | 93 | 4.30 | 14.70 |
| 9 | 398.50 | 28.3 QP | 46.00 | -17.70 | 1.82 H | 110 | 10.60 | 17.70 |
| 10 | 440.02 | 21.2 QP | 46.00 | -24.80 | 1.19 H | 273 | 3.00 | 18.20 |
| 11 | 465.50 | 26.4 QP | 46.00 | -19.60 | 1.68 H | 59 | 7.70 | 18.70 |
| 12 | 528.06 | 25.5 QP | 46.00 | -20.50 | 1.29 H | 304 | 5.40 | 20.10 |
| 13 | 664.00 | 28.3 QP | 46.00 | -17.70 | 1.68 H | 214 | 7.00 | 21.30 |

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.



| | | | |
|---------------------------------|---------------------------------|------------------------------|----------------|
| EUT | Tablet PC | MODEL | SC800 |
| MODE | Channel 11 | FREQUENCY RANGE | Below 1000 MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 20 deg. C, 59 % RH, 1050 hPa | TESTED BY: Martin Lee | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 120.00 | 31.1 QP | 43.50 | -12.40 | 1.48 V | 279 | 18.40 | 12.70 |
| 2 | 133.50 | 30.1 QP | 43.50 | -13.40 | 1.30 V | 45 | 17.80 | 12.30 |
| 3 | 144.20 | 32.8 QP | 43.50 | -10.70 | 1.08 V | 248 | 21.00 | 11.80 |
| 4 | 167.20 | 30.7 QP | 43.50 | -12.80 | 1.15 V | 184 | 20.30 | 10.40 |
| 5 | 220.00 | 24.6 QP | 46.00 | -21.40 | 1.12 V | 24 | 13.20 | 11.40 |
| 6 | 240.00 | 25.4 QP | 46.00 | -20.60 | 1.27 V | 251 | 12.80 | 12.60 |
| 7 | 271.00 | 22.1 QP | 46.00 | -23.90 | 1.60 V | 81 | 8.30 | 13.80 |
| 8 | 308.00 | 20.9 QP | 46.00 | -25.10 | 1.40 V | 258 | 6.20 | 14.70 |
| 9 | 398.50 | 30.3 QP | 46.00 | -15.70 | 1.82 V | 124 | 12.60 | 17.70 |
| 10 | 440.00 | 24.2 QP | 46.00 | -21.80 | 1.56 V | 222 | 6.00 | 18.20 |
| 11 | 465.50 | 26.4 QP | 46.00 | -19.60 | 1.55 V | 232 | 7.70 | 18.70 |
| 12 | 528.00 | 26.5 QP | 46.00 | -19.50 | 1.59 V | 20 | 6.40 | 20.10 |
| 13 | 664.00 | 28.9 QP | 46.00 | -17.10 | 1.18 V | 46 | 7.60 | 21.30 |

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.



| | | | |
|---------------------------------|---------------------------------|------------------------------|--------------------------|
| EUT | Tablet PC | MODEL | SC800 |
| MODE | Channel 1 | FREQUENCY RANGE | Above 1000 MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 20 deg. C, 59 % RH, 1050 hPa | TESTED BY: Martin Lee | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2038.00 | 44.7 PK | 74.00 | -29.30 | 1.31 H | 309 | 14.20 | 30.40 |
| 2 | 2389.00 | 44.5 PK | 74.00 | -29.50 | 1.00 H | 273 | 12.60 | 31.90 |
| 3 | *2412.00 | 98.8 PK | | | 1.00 H | 273 | 66.80 | 32.00 |
| 3 | *2412.00 | 89.7 AV | | | 1.00 H | 273 | 57.70 | 30.40 |
| 4 | 4824.00 | 49.7 PK | 74.00 | -24.30 | 1.05 H | 25 | 11.20 | 38.50 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2038.00 | 38.7 PK | 74.00 | -35.30 | 1.29 V | 323 | 8.30 | 30.40 |
| 2 | 2390.00 | 44.7 PK | 74.00 | -29.30 | 1.29 V | 284 | 12.80 | 31.90 |
| 3 | *2412.00 | 90.8 PK | | | 1.29 V | 284 | 58.70 | 32.00 |
| 3 | *2412.00 | 82.4 AV | | | 1.29 V | 284 | 50.40 | 30.40 |
| 4 | 4824.00 | 48.4 PK | 74.00 | -25.60 | 1.00 V | 0 | 9.90 | 38.50 |

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " * " : Fundamental frequency
5. The other emission levels were very low against the limit.



| | | | |
|---------------------------------|---------------------------------|------------------------------|--------------------------|
| EUT | Tablet PC | MODEL | SC800 |
| MODE | Channel 6 | FREQUENCY RANGE | Above 1000 MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 20 deg. C, 59 % RH, 1050 hPa | TESTED BY: Martin Lee | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2063.00 | 45.5 PK | 74.00 | -28.50 | 1.03 H | 12 | 14.90 | 30.60 |
| 2 | *2437.00 | 103.2 PK | | | 1.09 H | 0 | 70.90 | 32.20 |
| 2 | *2437.00 | 94.9 AV | | | 1.09 H | 0 | 62.60 | 30.60 |
| 3 | 4125.00 | 47.3 PK | 74.00 | -26.70 | 1.05 H | 162 | 10.20 | 37.00 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2063.00 | 42.6 PK | 74.00 | -31.40 | 1.29 V | 296 | 12.00 | 30.60 |
| 2 | *2437.00 | 92.5 PK | | | 1.26 V | 284 | 60.30 | 32.20 |
| 2 | *2437.00 | 84.5 AV | | | 1.26 V | 284 | 52.30 | 30.60 |
| 3 | 4125.00 | 48.3 PK | 74.00 | -25.70 | 1.29 V | 348 | 11.30 | 37.00 |
| 4 | 4875.00 | 48.5 PK | 74.00 | -25.50 | 1.20 V | 0 | 9.80 | 38.70 |

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " * " : Fundamental frequency
5. The other emission levels were very low against the limit.



| | | | |
|---------------------------------|---------------------------------|------------------------------|--------------------------|
| EUT | Tablet PC | MODEL | SC800 |
| MODE | Channel 11 | FREQUENCY RANGE | Above 1000 MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 20 deg. C, 59 % RH, 1050 hPa | TESTED BY: Martin Lee | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2088.00 | 44.6 PK | 74.00 | -29.40 | 1.97 H | 22 | 13.80 | 30.80 |
| 2 | *2462.00 | 104.3 PK | | | 1.08 H | 0 | 71.80 | 32.50 |
| 2 | *2462.00 | 96.2 AV | | | 1.08 H | 0 | 63.70 | 30.80 |
| 3 | 2500.00 | 46.8 PK | 74.00 | -27.20 | 1.08 H | 0 | 14.00 | 32.80 |
| 4 | 4175.00 | 47.5 PK | 74.00 | -26.50 | 1.97 H | 135 | 10.50 | 37.00 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2088.00 | 44.5 PK | 74.00 | -29.50 | 1.03 V | 353 | 13.60 | 30.80 |
| 2 | *2462.00 | 91.4 PK | | | 1.37 V | 0 | 59.00 | 32.50 |
| 2 | *2462.00 | 83.7 AV | | | 1.37 V | 0 | 51.20 | 30.80 |
| 3 | 2499.00 | 43.9 PK | 74.00 | -30.10 | 1.37 V | 0 | 11.20 | 32.80 |
| 4 | 4175.00 | 47.5 PK | 74.00 | -26.50 | 1.31 V | 0 | 10.60 | 37.00 |

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. “*” : Fundamental frequency
5. The other emission levels were very low against the limit.



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER | FSEK30 | 100049 | July 24, 2003 |

NOTE:

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

4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.3.6 EUT OPERATING CONDITIONS

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



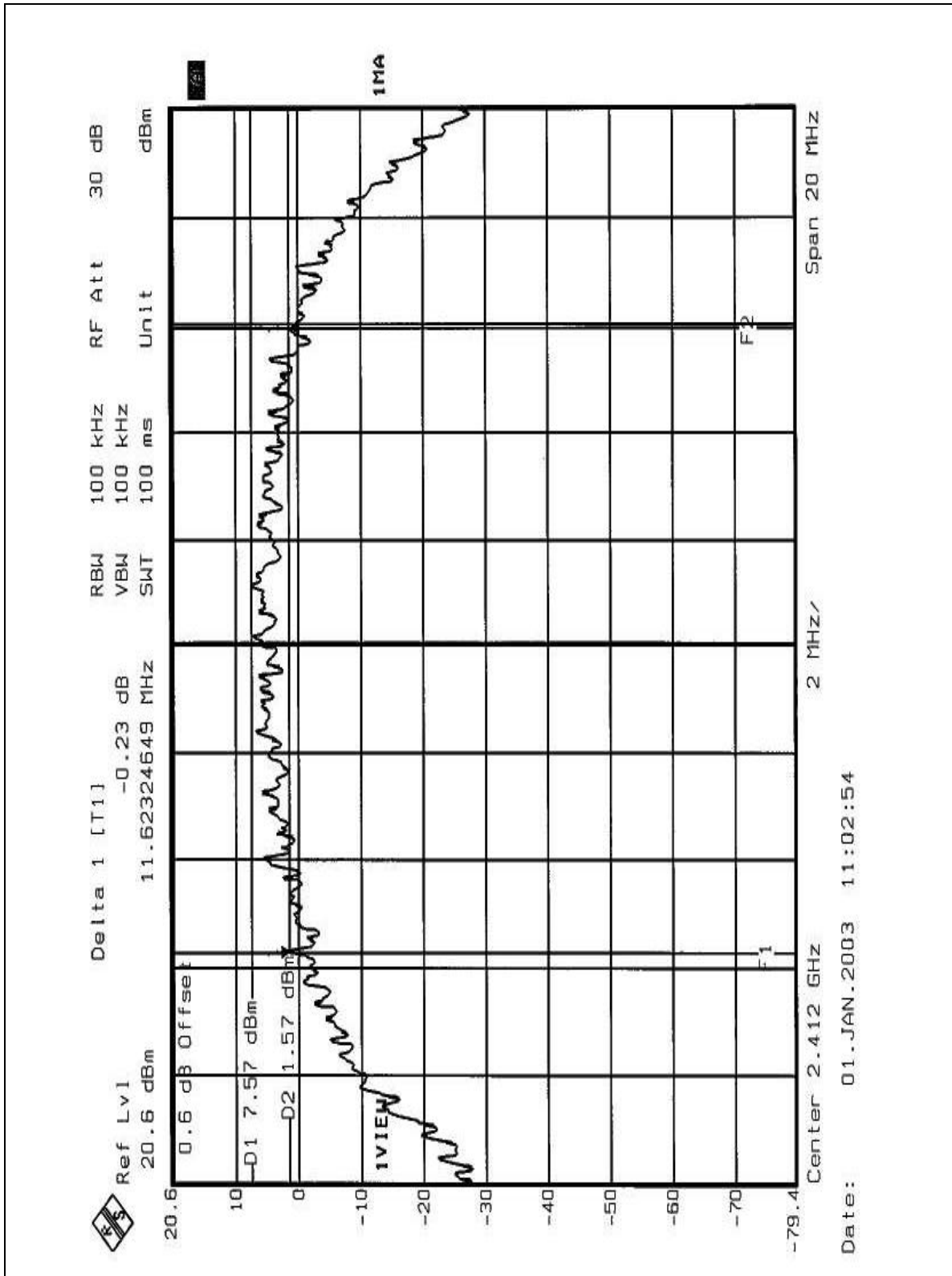
4.3.7 TEST RESULTS

| | | | |
|-----------------------------|---------------|---------------------------------|-----------------------------|
| EUT | Tablet PC | MODEL | SC800 |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 21 deg. C, 68 %RH, 1005 hPa |
| TESTED BY: Ansen Lei | | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6 dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|----------------|--------------------------------|-----------------------------|----------------------------|------------------|
| 1 | 2412 | 11.62 | 0.5 | PASS |
| 6 | 2437 | 11.62 | 0.5 | PASS |
| 11 | 2462 | 11.62 | 0.5 | PASS |

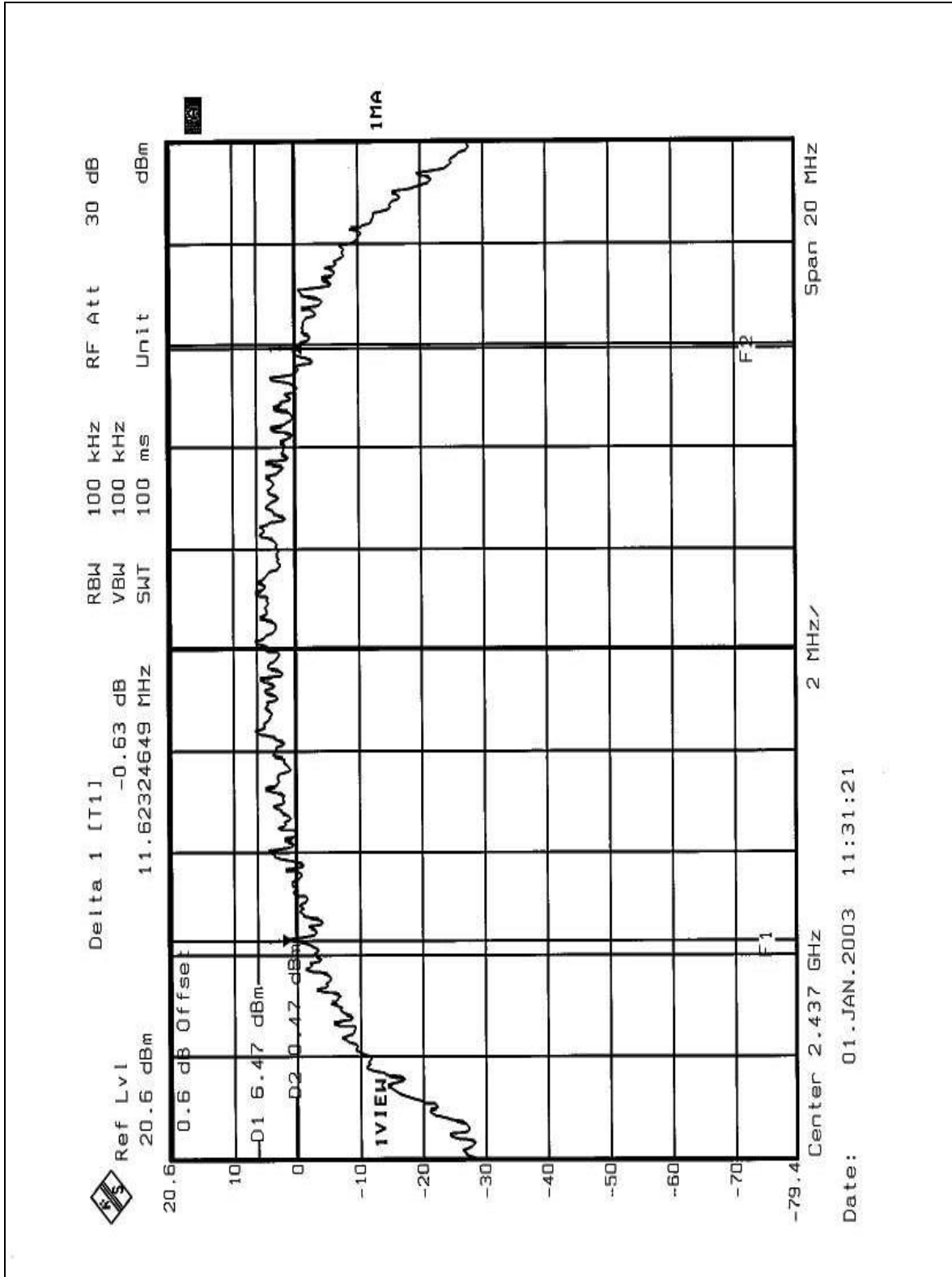


CH1



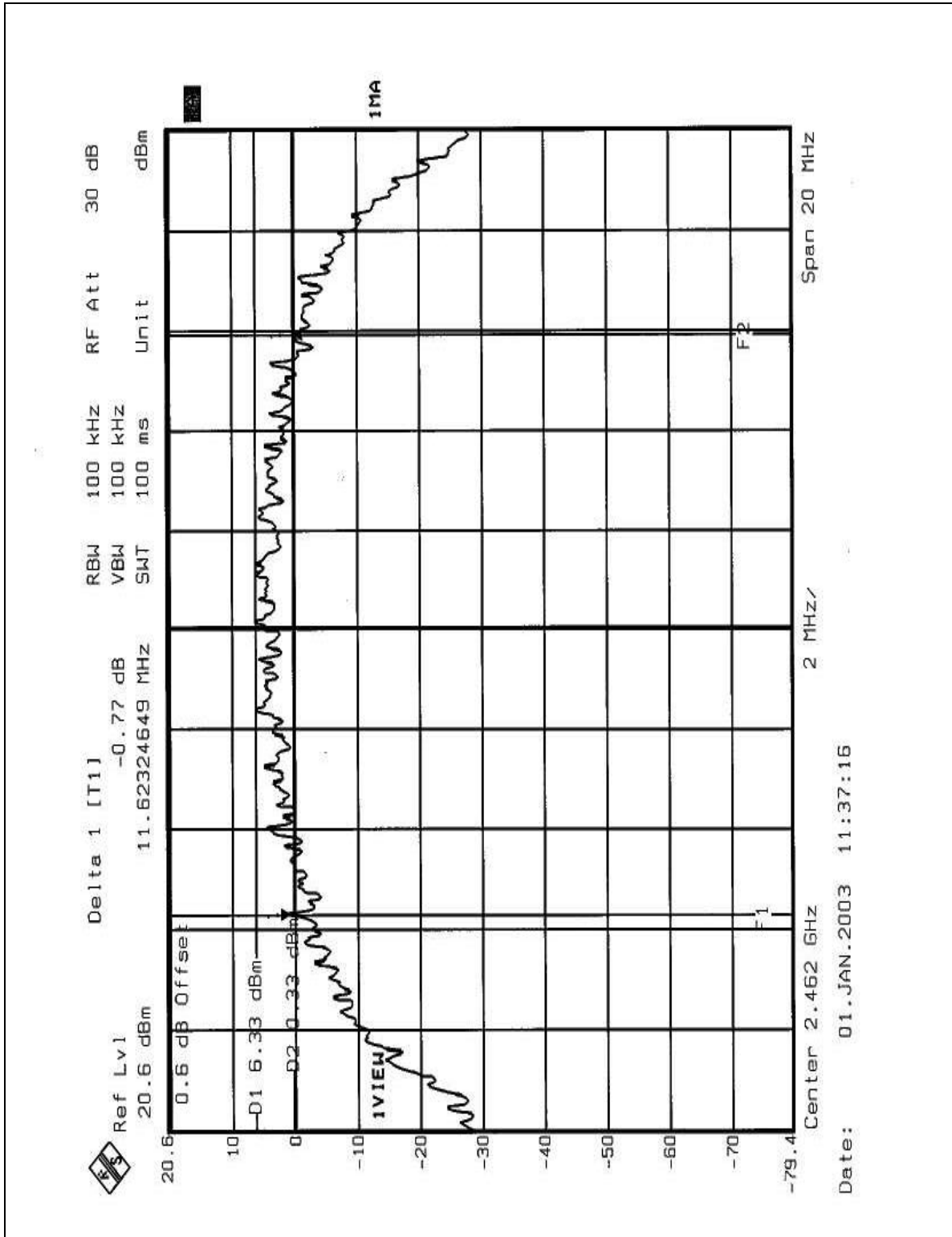


CH6





CH11





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 |
|----------------------------|-----------|------------|------------------|
| POWER METER | E4416A | GB41291118 | Jul. 30, 2003 |
| PEAK POWER SENSOR | E9327A | US40440722 | Jul. 30, 2003 |

NOTE:

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



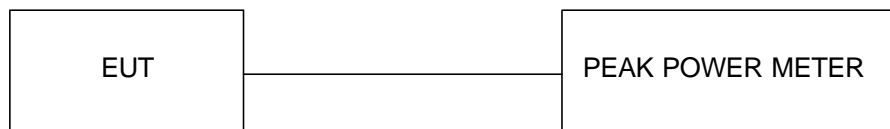
4.4.3 TEST PROCEDURES

The transmitter output was connected to the peak power meter.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

| | | | |
|-----------------------------|---------------|---------------------------------|-----------------------------|
| EUT | Tablet PC | MODEL | SC800 |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 21 deg. C, 68 %RH, 1005 hPa |
| TESTED BY: Ansen Lei | | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|----------------|--------------------------------|--------------------------------|-------------------------------|------------------|
| 1 | 2412 | 18.38 | 30 | PASS |
| 6 | 2437 | 18.42 | 30 | PASS |
| 11 | 2462 | 18.31 | 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 | FSEK30 | 100049 | July 24, 2003 |

NOTE:

1. 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 3 kHz RBW and 30 kHz 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 CONDITIONS

Same as 4.3.6



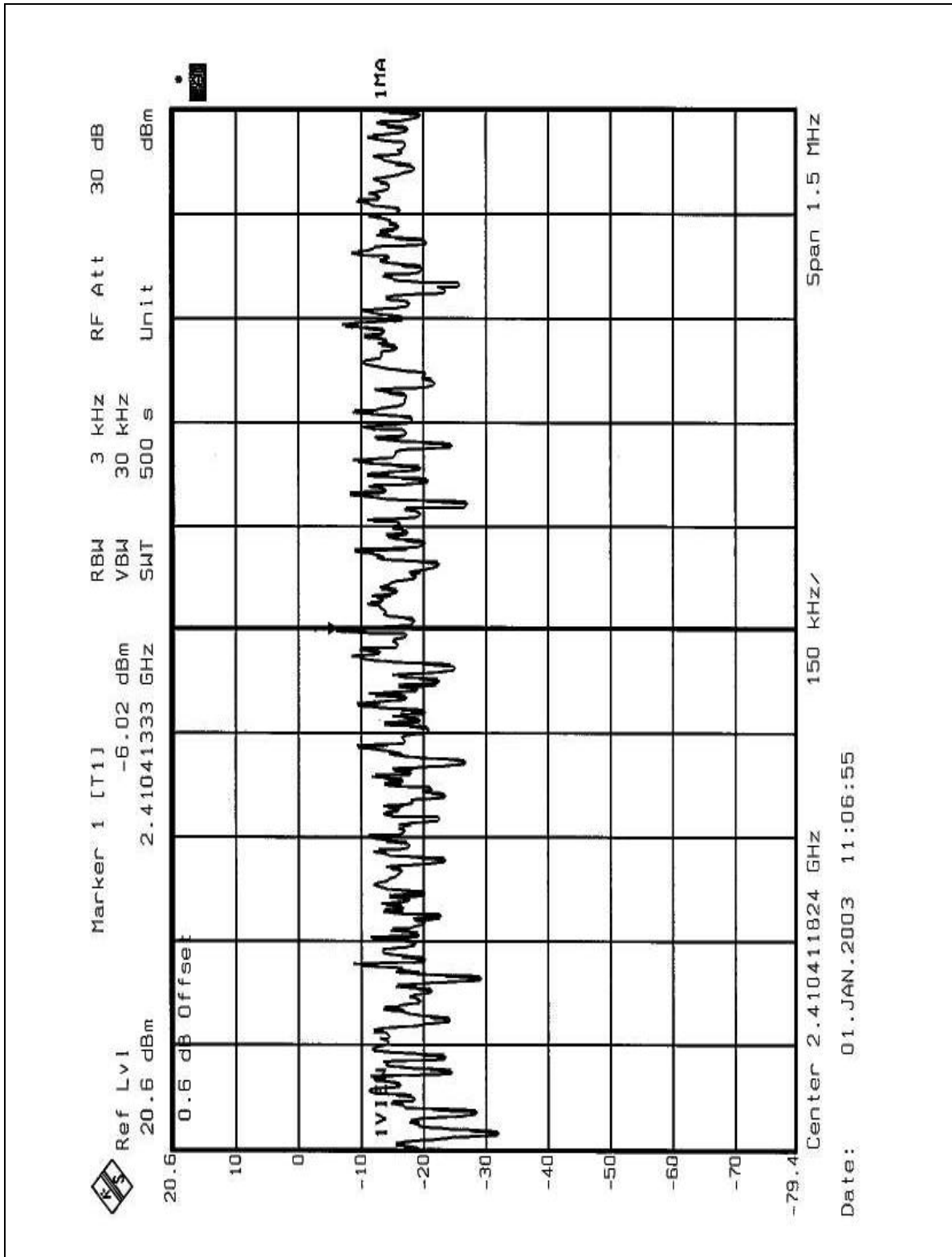
4.5.7 TEST RESULTS

| | | | |
|-----------------------------|---------------|---------------------------------|--------------------------------|
| EUT | Tablet PC | MODEL | SC800 |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 21 deg. C, 68 %RH, 1005 hPa |
| TESTED BY: Ansen Lei | | | |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 KHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|-----------------------|---------------------------------|---|----------------------------|------------------|
| 1 | 2412 | -6.02 | 8 | PASS |
| 6 | 2437 | -6.39 | 8 | PASS |
| 11 | 2462 | -6.46 | 8 | PASS |

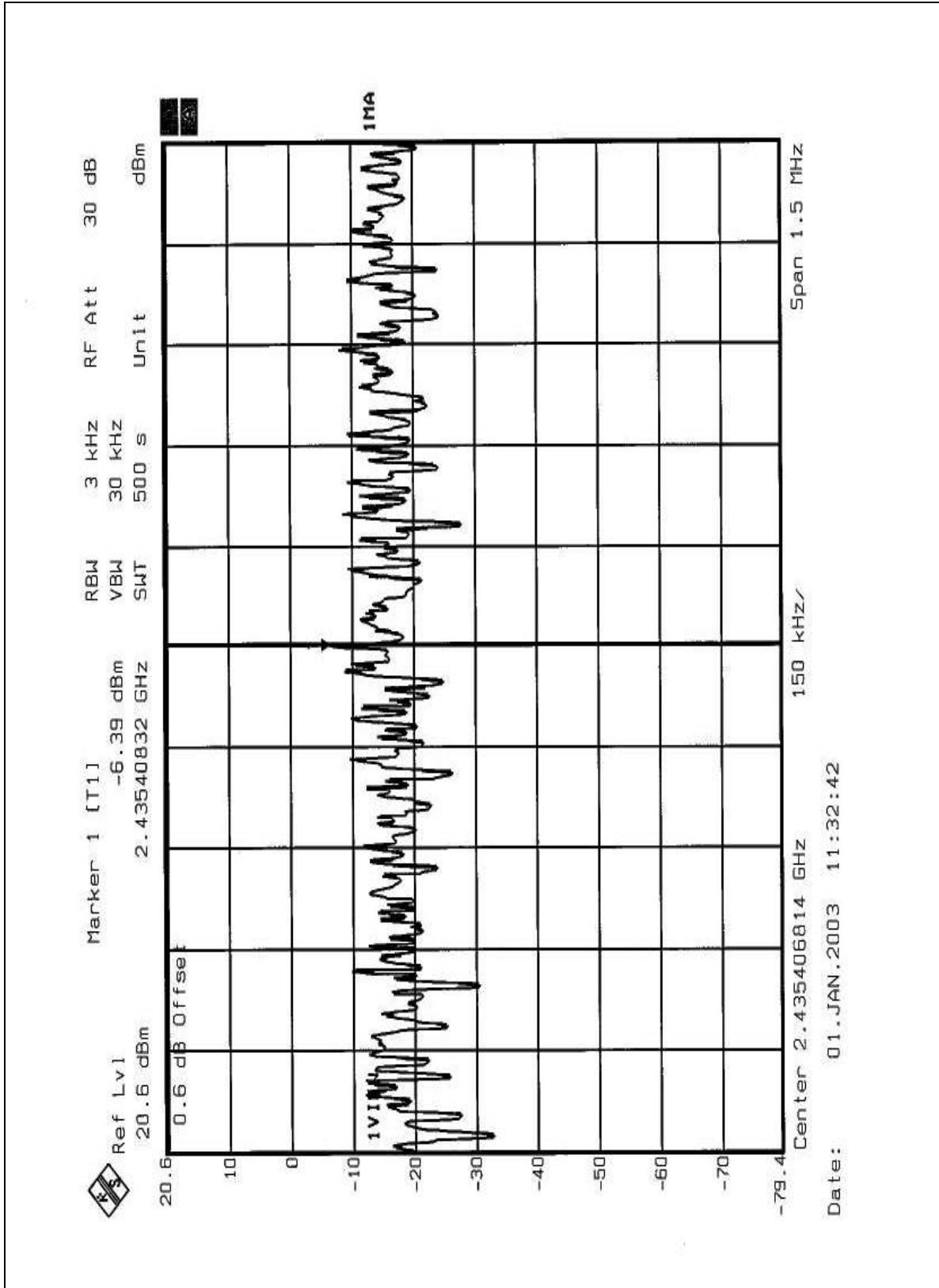


CH1



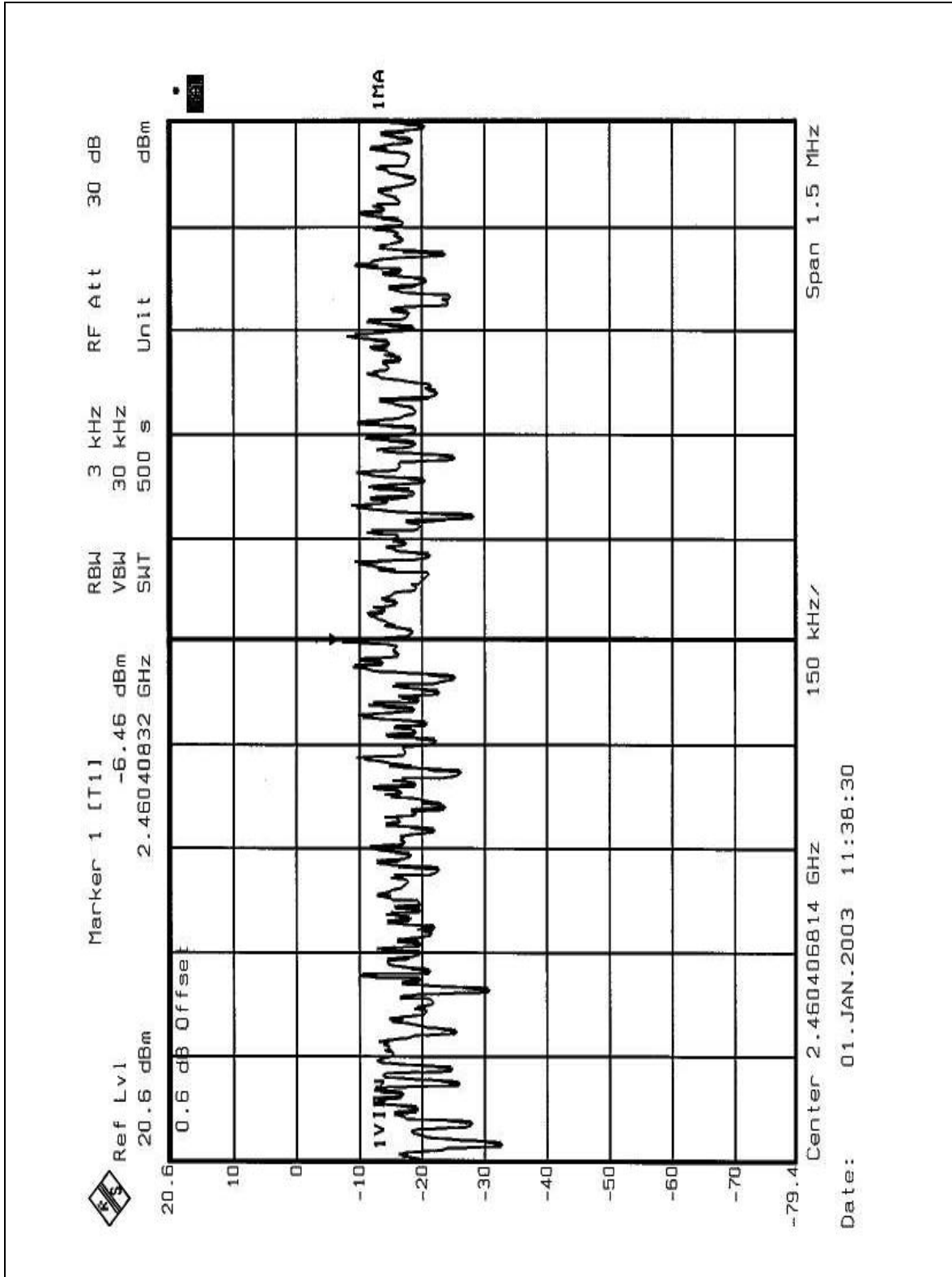


CH6





CH11





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER | FSEK30 | 100049 | July 24, 2003 |

NOTE:

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

4.6.3 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.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation



4.6.5 EUT OPERATING CONDITION

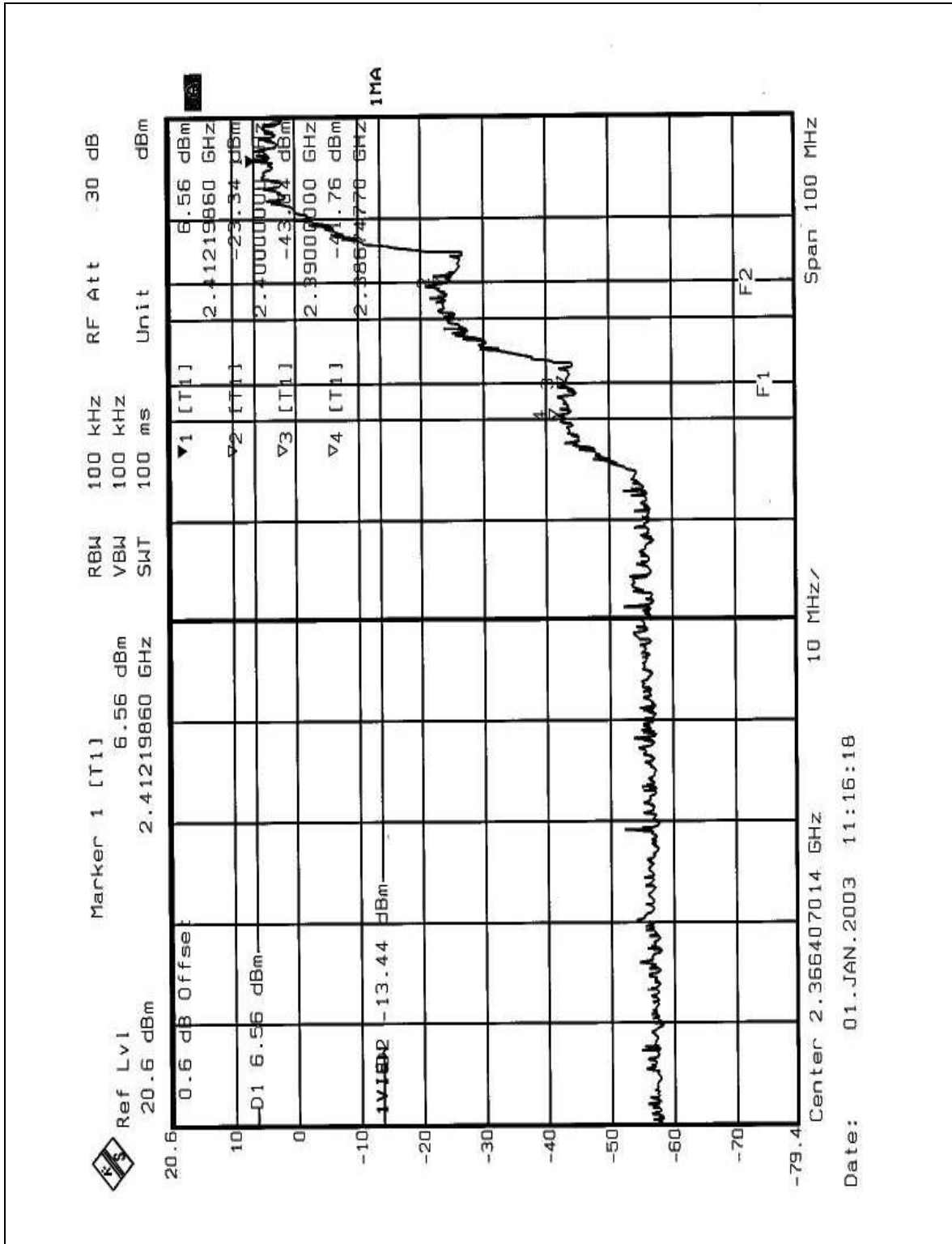
Same as Item 4.3.6

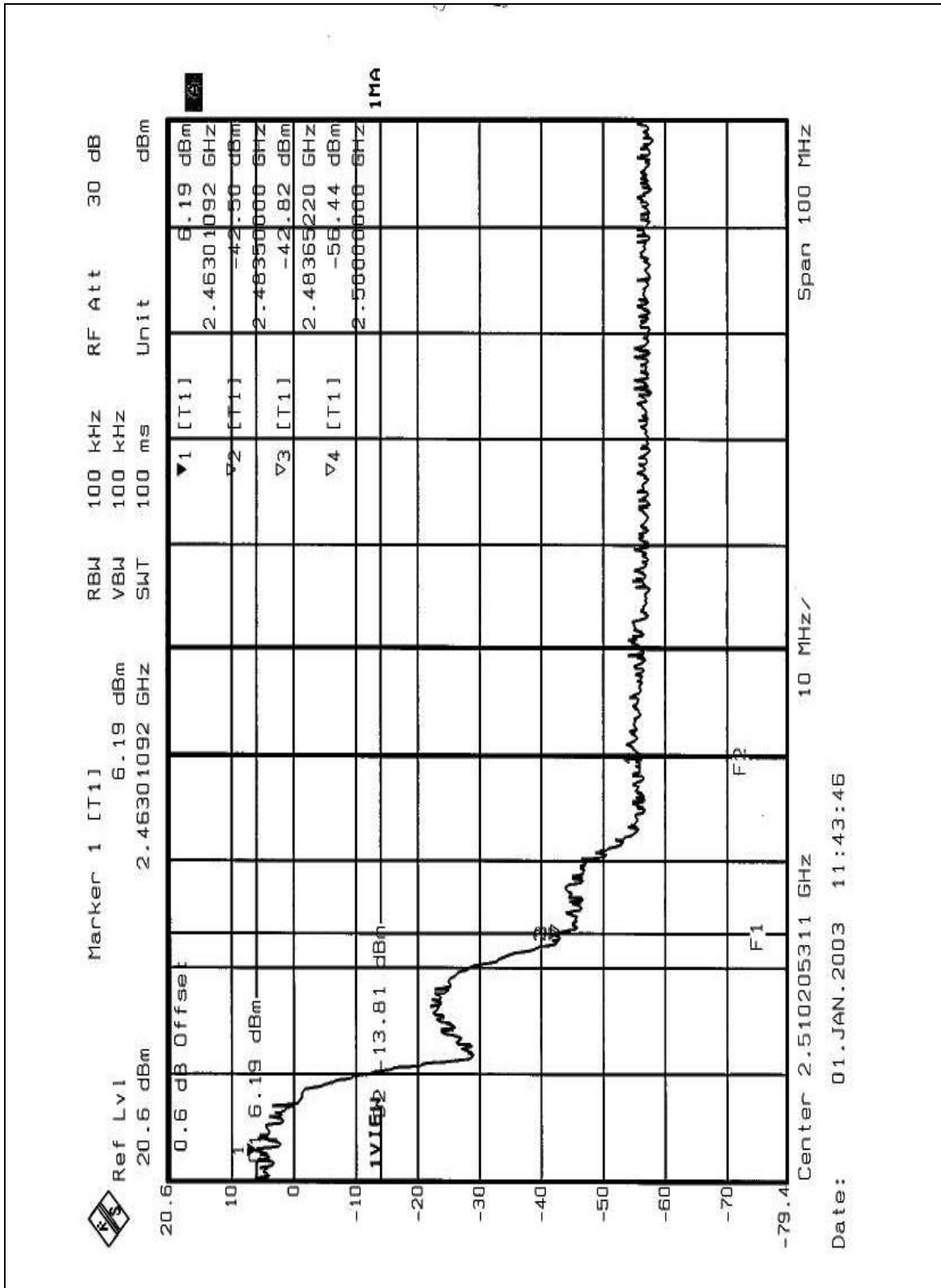
4.6.6 TEST RESULTS

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE1: The band edge emission plot on the following first page shows 48.32dB delta between carrier maximum power and local maximum emission in restrict band (2.3867GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 (page 20) is 89.7dBuV/m, so the maximum field strength in restrict band is $89.7-48.32=41.38$ dBuV/m which is under 54 dBuV/m limit.

NOTE2: The band edge emission plot on the following second page shows 48.69dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 (page 22) is 96.2dBuV/m, so the maximum field strength in restrict band is $96.2-48.69=47.51$ dBuV/m which is under 54 dBuV/m limit.







4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Printed antenna with UFL connector. And the maximum Gain of this antenna is only -9dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

| | |
|--------------------|-----------------|
| USA | FCC, NVLAP |
| Germany | TUV Rheinland |
| Japan | VCCI |
| New Zealand | MoC |
| Norway | NEMKO |
| R.O.C. | BSMI, DGT, CNLA |

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab:

Tel: 886-2-26093195

Fax: 886-2-26093184

Lin Kou RF&Telecom Lab

Tel: 886-3-3270910

Fax: 886-3-3270892

Email: service@mail.adt.com.tw

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.