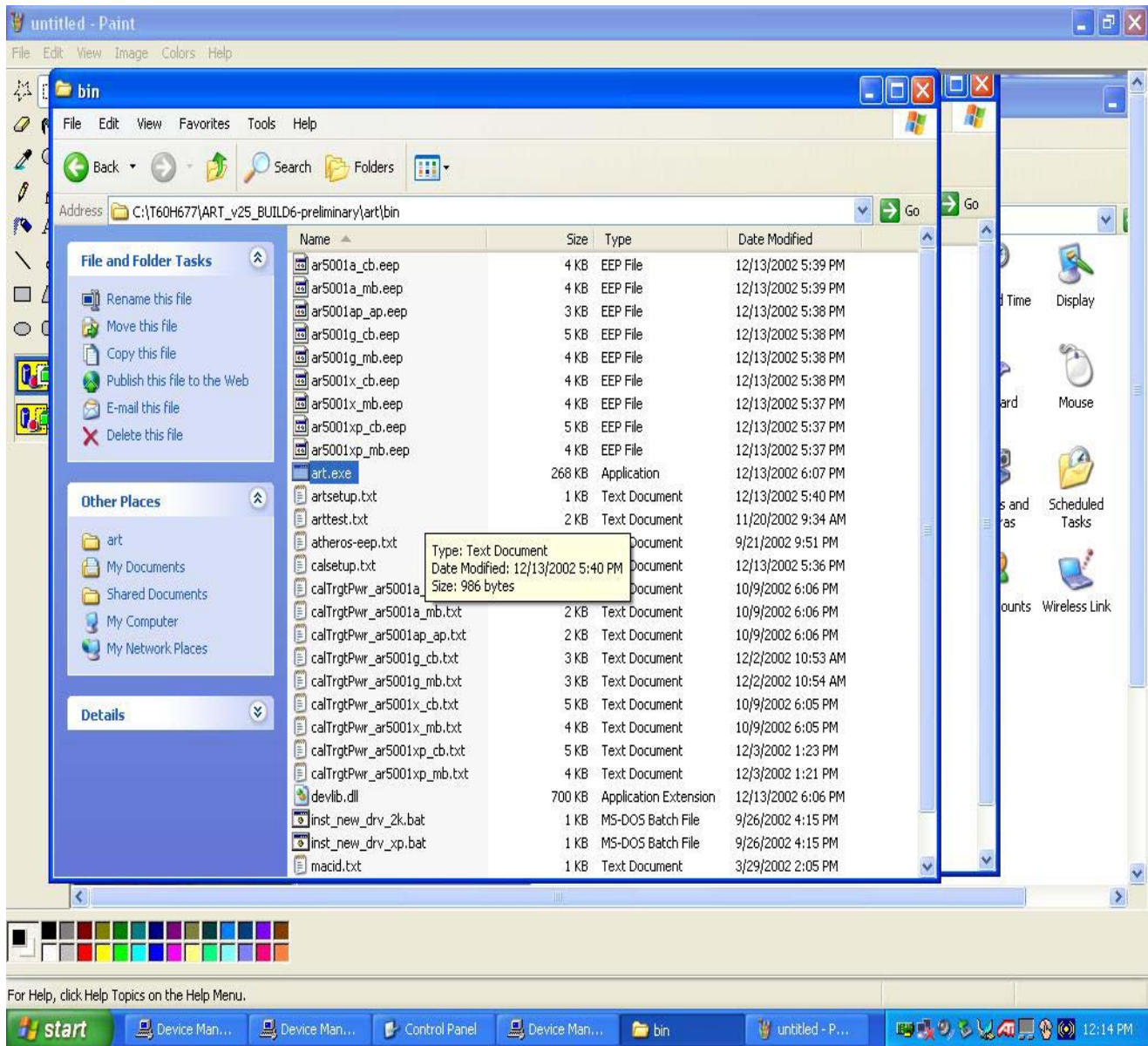ZI1S computer setup and test procedure

1) Bluetooth is situated inside the note book can not be accessed. Please do not try to open the notebook.

2) Mini pci card at back of the notebook, connect to j1 point for testing

3) The notebook is in test mode, unable to connect to access point or other PC, only used for testing by ART Test Program.

4) To change to operation mode will have to update driver

5) Control panel → system → hardware → device manager → atheros mdk (or 802.11a/b) → driver → update driver → install from a list or specific loacation → don't search I will choose driver to install → In the show compatible hardware should see * lan-express IEEE 802.11a/b mini pci adaptor
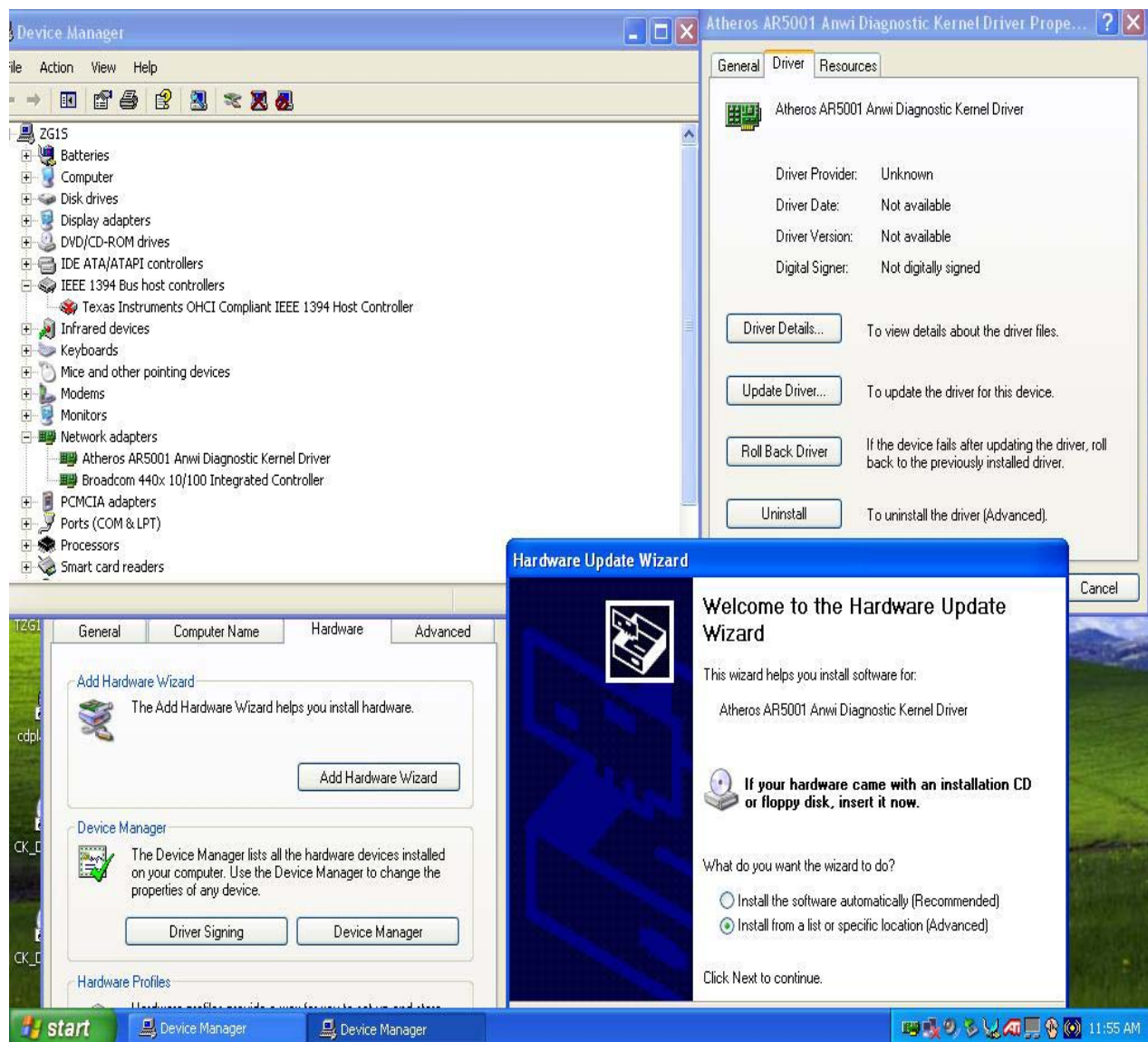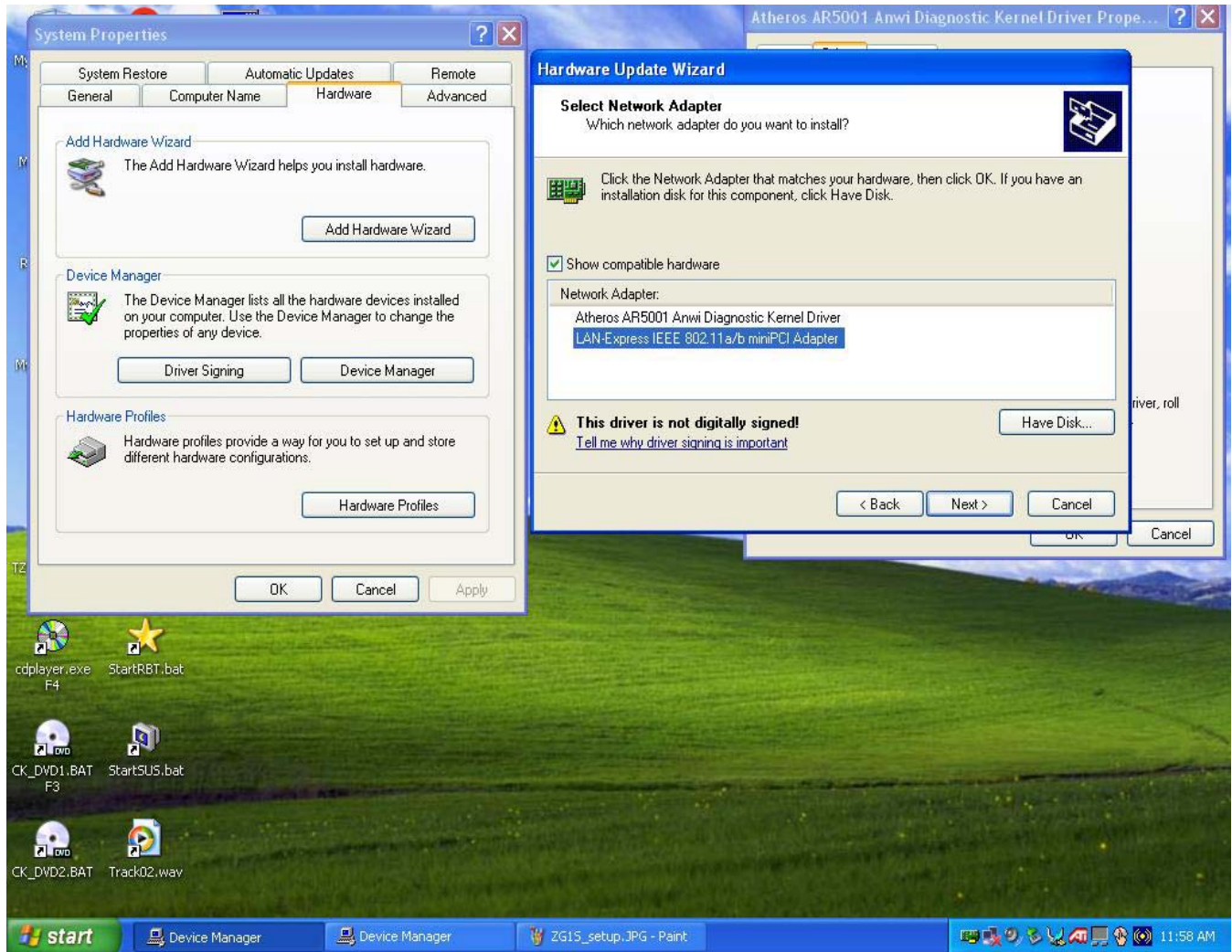
6) To go back to the test mode by the same method update driver but this time in the compatible hardware chose * Atheros AR5001 Anwi Diagnostic kernel driver"

7) under test mode start testing by execute c:\driver\wireless lan\t60h677\art_v25_build_…. \ art\bin\art.exe

```
C:\T60H677\ART_v25_BUILD6-preliminary\art\bin\art.exe
Devlib Revision 2.5 BUILD #6
Devices detected:
  PCI deviceID  : 0x0012       Sub systemID  : 0x2022
  MAC revisionID: 0x42         BB  revisionID: 0x30
  RF  productID : 0x1          RF  revisionID: 0x7

Using defaults from //depot/bringup/ar5k/config/boss_0012.cfg#82

Base Addr: 0xD0200000  Interrupt: 10
Wireless MAC ADDR: 0x0003_?FBE_F0F9
Operating in 11a at channel 5.260GHz

=========================================
| Test Harness Main Options:             |
|   o - Toggle M<o>de                     |
|   e - Ignore <E>EPROM Calibration       |
|   c - <C>ontinuous transmit mode        |
|   r - Continuous RF <R>eceive mode      |
|   l - <L>ink test menu                  |
|   t - <T>hroughput test menu            |
|   p - EE<P>ROM function                 |
|   s - <S>witch test card                |
|   m - <M>anufacturing/Calibration Test  |
|   g - Enable lo<g>ging                  |
|   u - <U>tility Menu                    |
|   q - <Q>uit                            |
=========================================
```
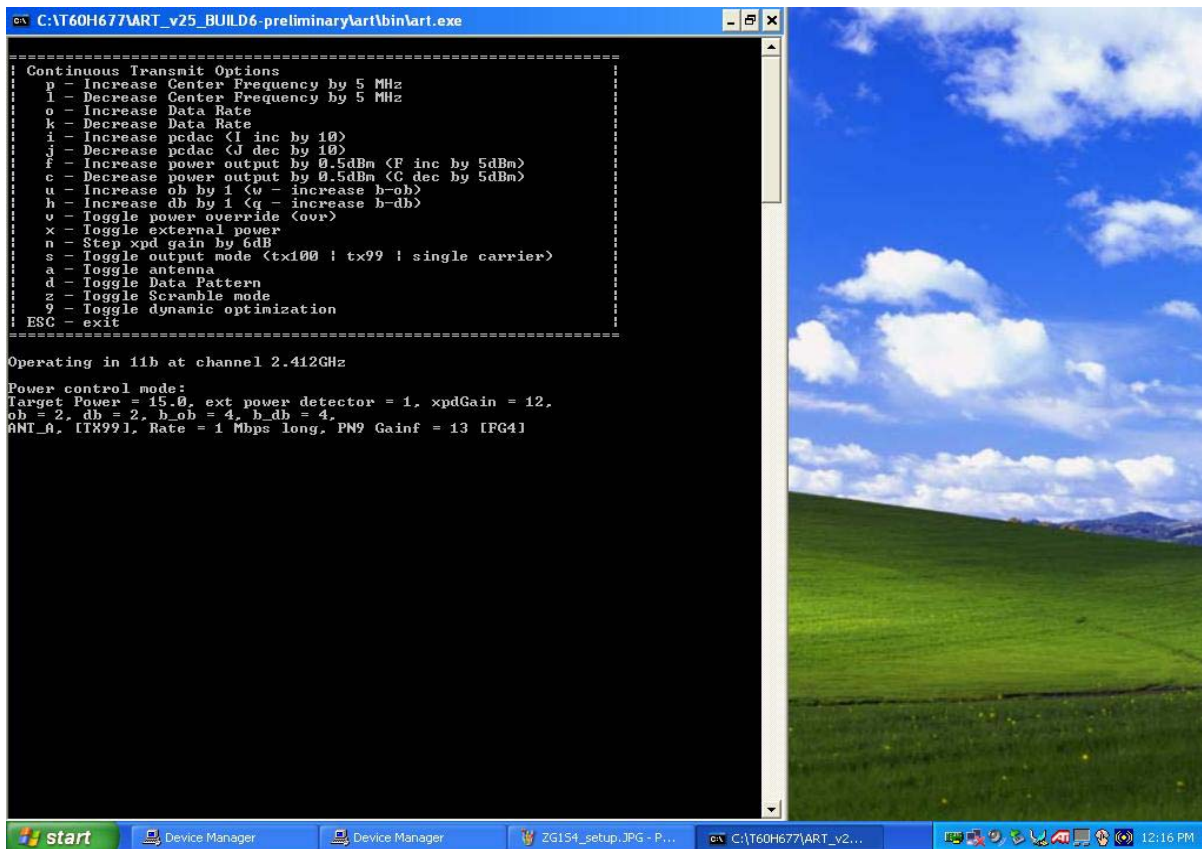
you will see a dos prompt used to test

"o" for changing from a\b\g

"c" for continious transmit then another dos prompt will be seen

```
 C:\T60H677\ART_v25_BUILD6-preliminary\art\bin\art.exe              _ □ ×

===============================================================
  Continuous Transmit Options
   p - Increase Center Frequency by 5 MHz
   l - Decrease Center Frequency by 5 MHz
   o - Increase Data Rate
   k - Decrease Data Rate
   i - Increase pcdac <I inc by 10>
   j - Decrease pcdac <J dec by 10>
   f - Increase power output by 0.5dBm <F inc by 5dBm>
   c - Decrease power output by 0.5dBm <C dec by 5dBm>
   u - Increase ob by 1 <w - increase b-ob>
   h - Increase db by 1 <q - increase b-db>
   v - Toggle power override <ovr>
   x - Toggle external power
   n - Step xpd gain by 6dB
   s - Toggle output mode <tx100 : tx99 : single carrier>
   a - Toggle antenna
   d - Toggle Data Pattern
   z - Toggle Scramble mode
   9 - Toggle dynamic optimization
  ESC - exit
===============================================================

Operating in 11b at channel 2.412GHz

Power control mode:
Target Power = 15.0, ext power detector = 1, xpdGain = 12,
ob = 2, db = 2, b_ob = 4, b_db = 4,
ANT_A, [TX99], Rate = 1 Mbps long, PN9 Gainf = 13 [FG4]
```
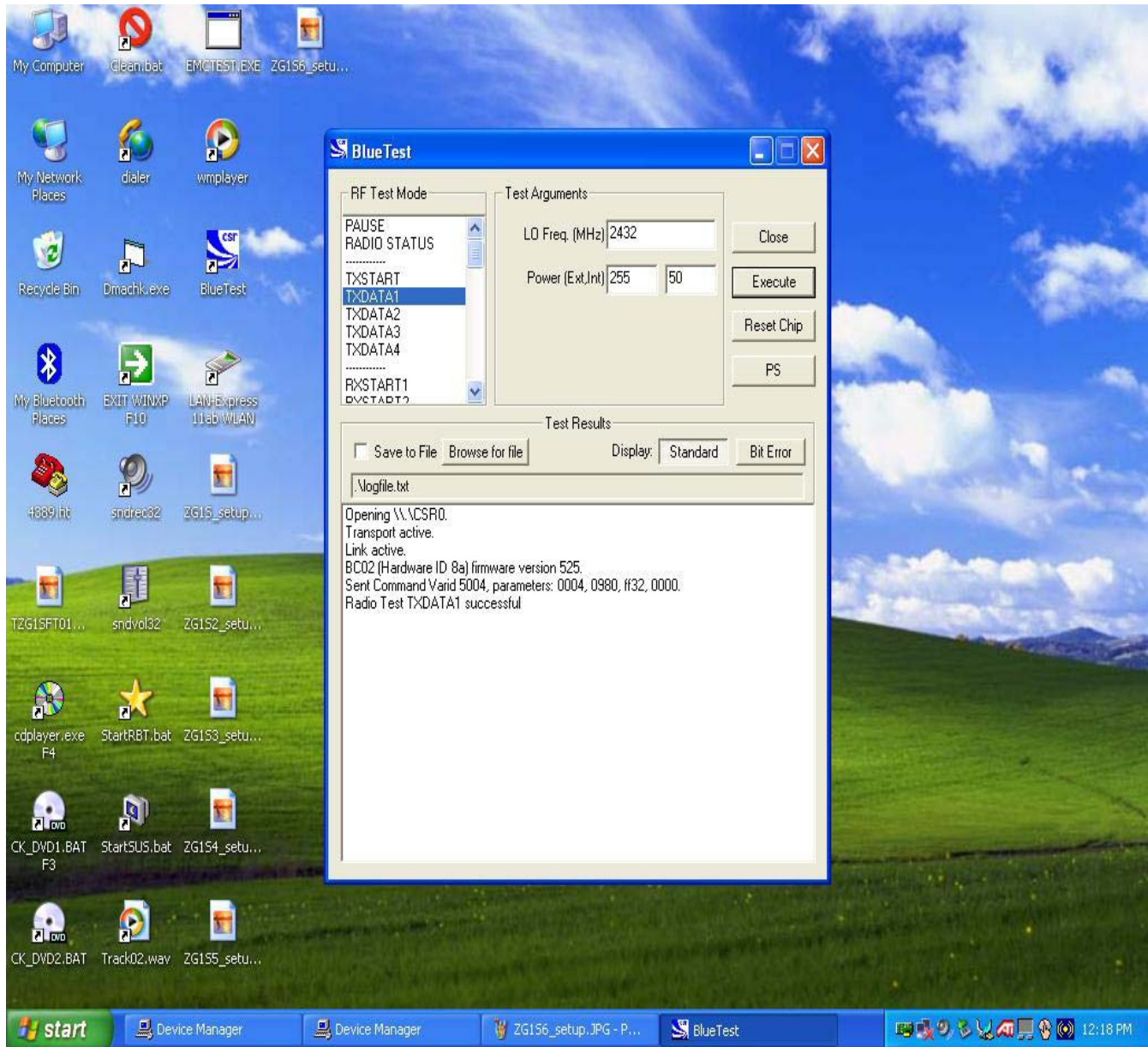
"s" for un modulated signal

Bluetooth test program
Click blue test

Make sure it is same as above diagram

chose TXData1 then chose the frequency you want to test. Then execute

for true CW signal use Txstart then chose frequency

Attn: there is 2 buttons on the side bottom panel for enable and disable bluetooth and wireless lan, please if you can not transmit make sure the wireless is enabled by press button.