Tune-up procedures of V736/Vodafone 736/U3210

1.1 Test Equipment List

–GSM tester: CMU200
–Dummy battery or Power Supply: Agilent 66319D
–PC with serial port
–GPIB card

1.2 VCTCXO frequency accuracy adjust procedure

Function:

To calibrate the VCTCXO frequency accuracy

Procedure:

step1: The computer sets V736/Vodafone 736 /U3210 to the Factory test mode and works at US cellular band, sets the CMU200 to PCS1900 Analyzer mode.
Step2: V736/Vodafone 736 /U3210 was adjusted to transmit 30dBm by tuning the ADC. Use the CMU200 to measure the frequency error. Tuning the PDM parameter until the frequency error ≤190Hz.

1.3 The PCS1900 power adjust procedure

Function:

After the PCS1900 transmit POWER calibration the V736/Vodafone 736/U3210 can find the relationship between the TX-AGC and output power. So it can transmit the specific power according to the 3GPP2 protocol.

Procedure:

Step1: The computer sets V736/Vodafone 736/U3210 to the Factory test mode and works at PCS1900 mode, sets the CMU200 to PCS1900 Analyzer mode.
Step2: Tuning the TX-AGC of V736/Vodafone 736/U3210 from 50 to 600 and measure the output power of the V736/Vodafone 736/U3210 via CMU200, so we can find the relationship between the TX-AGC and output power.

1.4 The Bluetooth RF test procedure

 Step1:The computer sets V736/Vodafone 736/U3210 to the Factory test mode and works at Bluetooth mode and sets the CMU200 to Bluetooth Analyzer mode.
 Step2:V736/Vodafone 736/U3210's Bluetooth chip connects with CMU200 through SMA interface, then all the BT RF performances can be tested.
Note：The user has no possibility to change these settings later on.