Anritsu

Discover What's Possible™

MT8820A WCDMA UE测试应用

WCDMA 测试功能模块构成

MT8820A-01
WCDMA Measurement unit

MT8820A

无线综合测试仪

MX882000B　WCDMA 测试软件

MX88200B-01　WCDMA 语音测试软件

MX88205XA-02　WCDMA 外部包测试软件

MX88205XA-03　WCDMA 视频终端测试软件

MT8820A WCDMA测试应用:

- MT8820A面板操作;
- MT8820A一般参数设置;
- MT8820A相关参数设置说明;
- MT8820A WCDMA测试步骤;

MT8820A面板操作

面板

Scroll Up **Scroll Down**
Scrolling of a menu screen

Encode
Scroll,Select parameter,
Determination

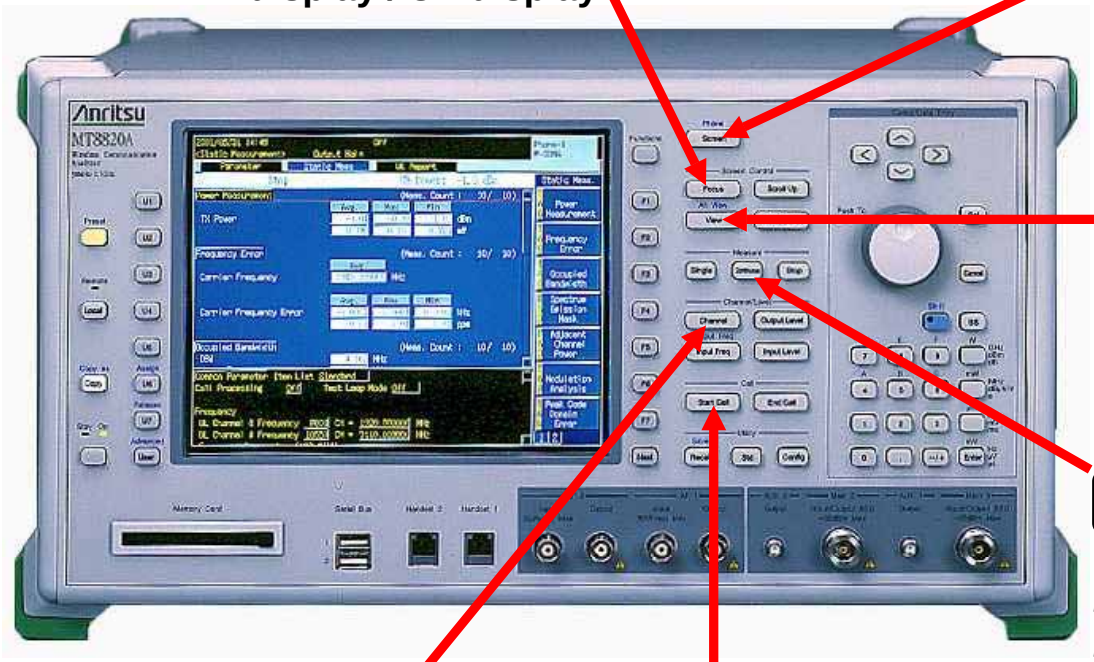
F1 - **F7**
Function key

NEXT
Page change for function menu

STD
Communication system select

*following [ ] is an key on panel.

面板



View
Waveform
display / Un-display

Screen
Display screen selection

Focus
Operation screen change

Single **continuous** **Stop**
Single measurement
/ continuous measurement
/ stop

Channel
channel change

Starat call **End Call**
network call, network disconnect

面板操作

Focus ---菜单切换

Parameter：参数设置

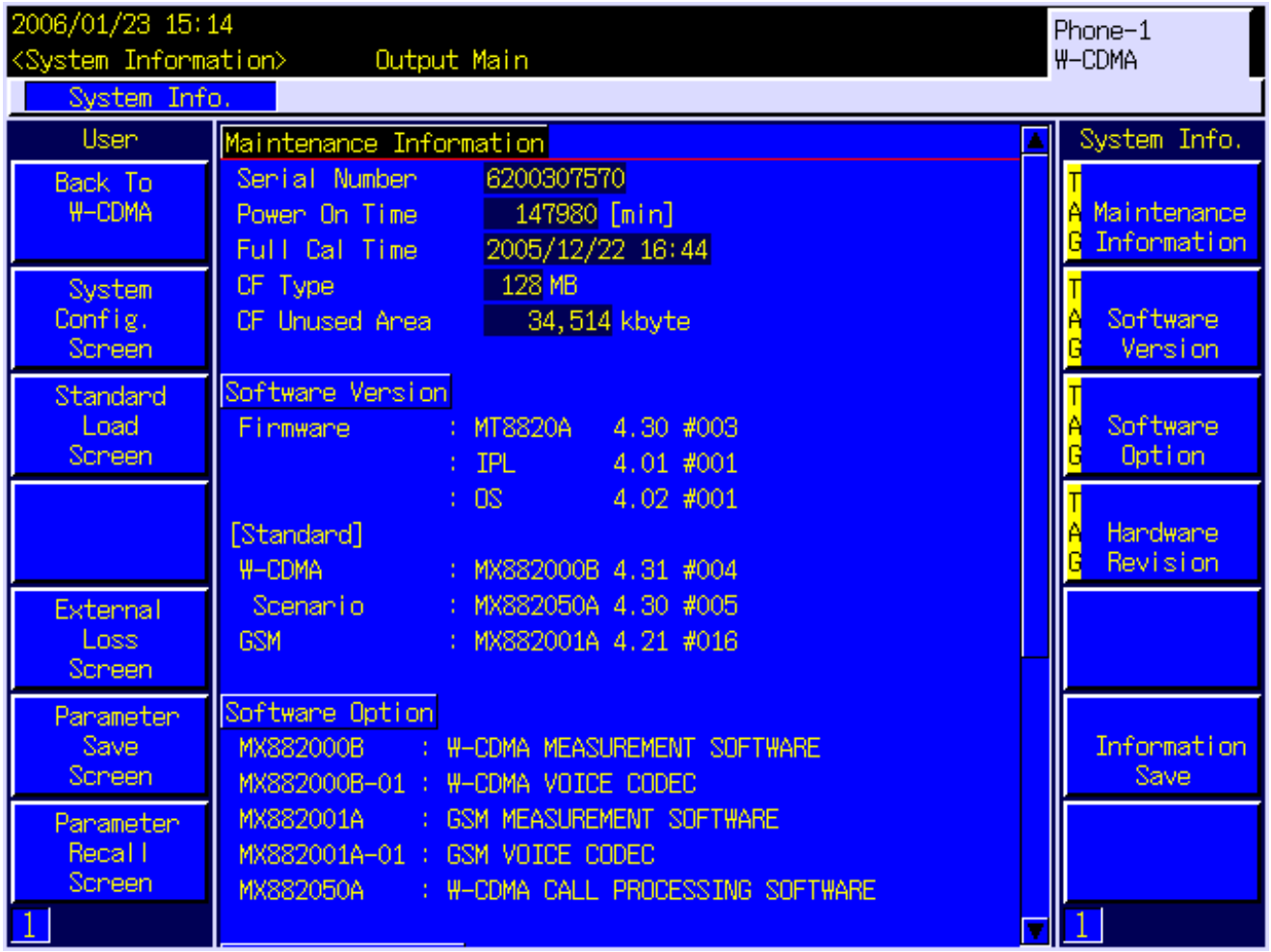
Fundamental：结果数据

UE report：手机汇报

Sequence monitor：呼叫监控

Screen：选择屏幕，同时有parameter/fundamental/PS report

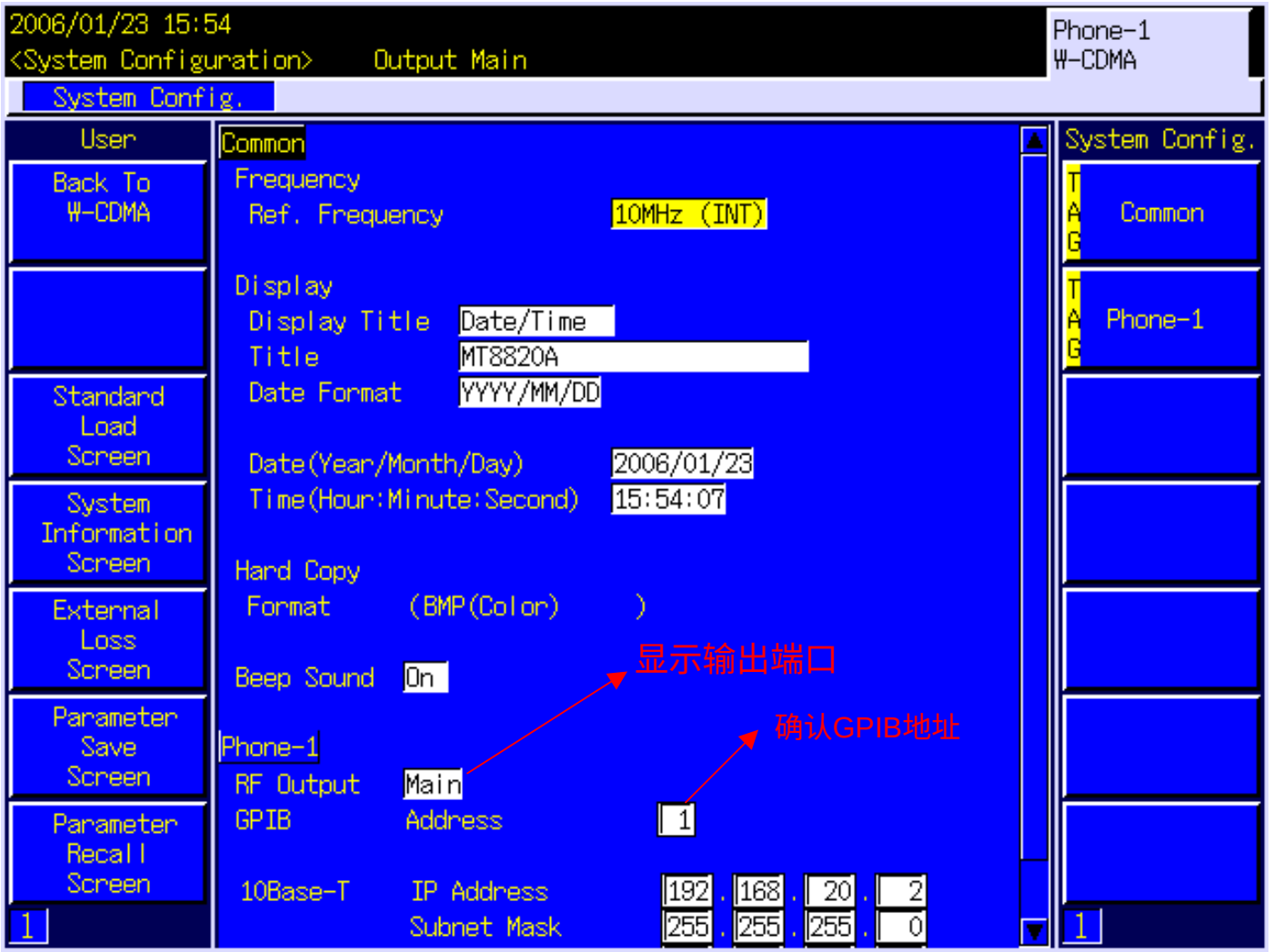
或者parameter/sequence monitor/UE report



查看系统的配置:

按Config→

System info


2006/01/23 15:54
<System Configuration> Output Main
Phone-1
W-CDMA
System Config.
User
Back To W-CDMA
Standard Load Screen
System Information Screen
External Loss Screen
Parameter Save Screen
Parameter Recall Screen
1
Common
Frequency
Ref. Frequency
10MHz (INT)
Display
Display Title
Date/Time
Title
MT8820A
Date Format
YYYY/MM/DD
Date(Year/Month/Day)
2006/01/23
Time(Hour:Minute:Second)
15:54:07
Hard Copy
Format
(BMP(Color))
Beep Sound
On
Phone-1
RF Output
Main
GPIB
Address
1
10Base-T
IP Address
192 . 168 . 20 . 2
Subnet Mask
255 . 255 . 255 . 0
显示输出端口
确认GPIB地址
System Config.
TAG
Common
TAG
Phone-1
1

确认scenario 版本

升级:

（1）插入CF卡

（2）同时按set和开机键

（3）听到嘀声松手，系统会自动升级

MT8820A一般参数设置

线损设置

urement.

Viewing a parameter window

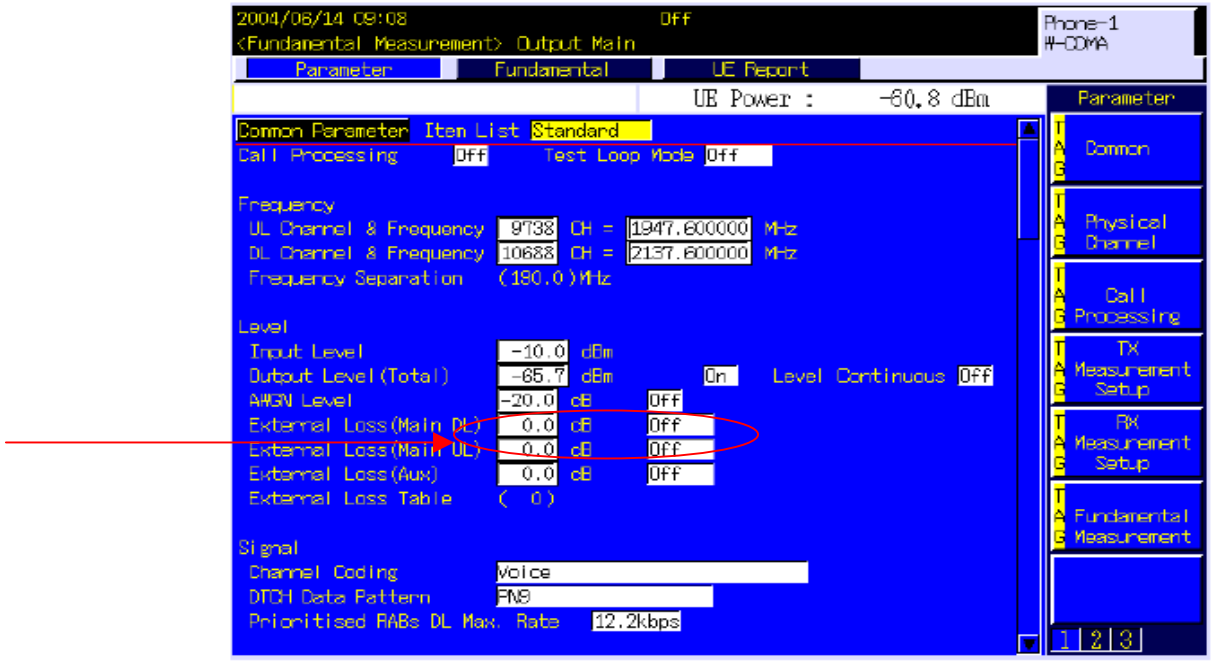
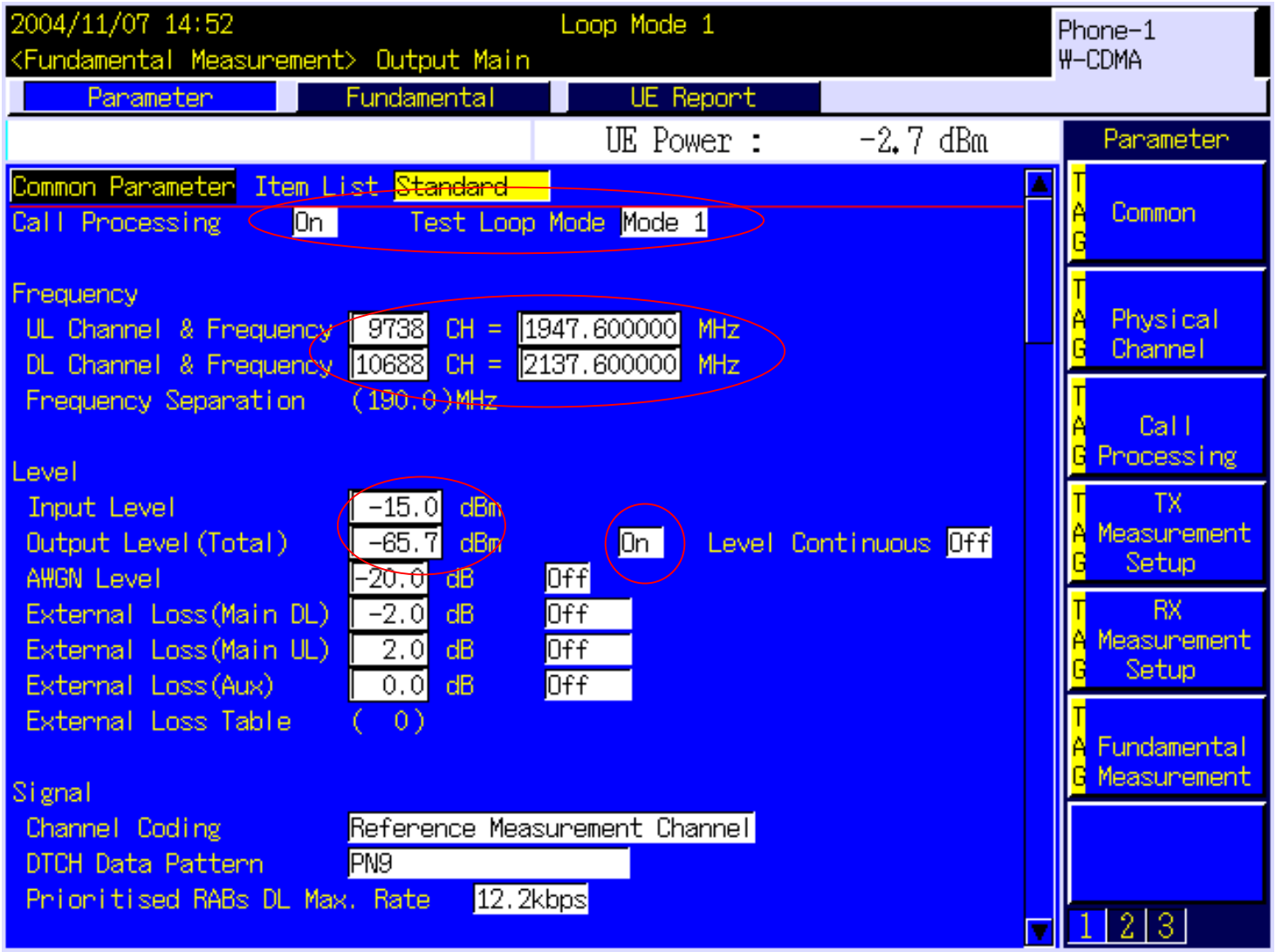
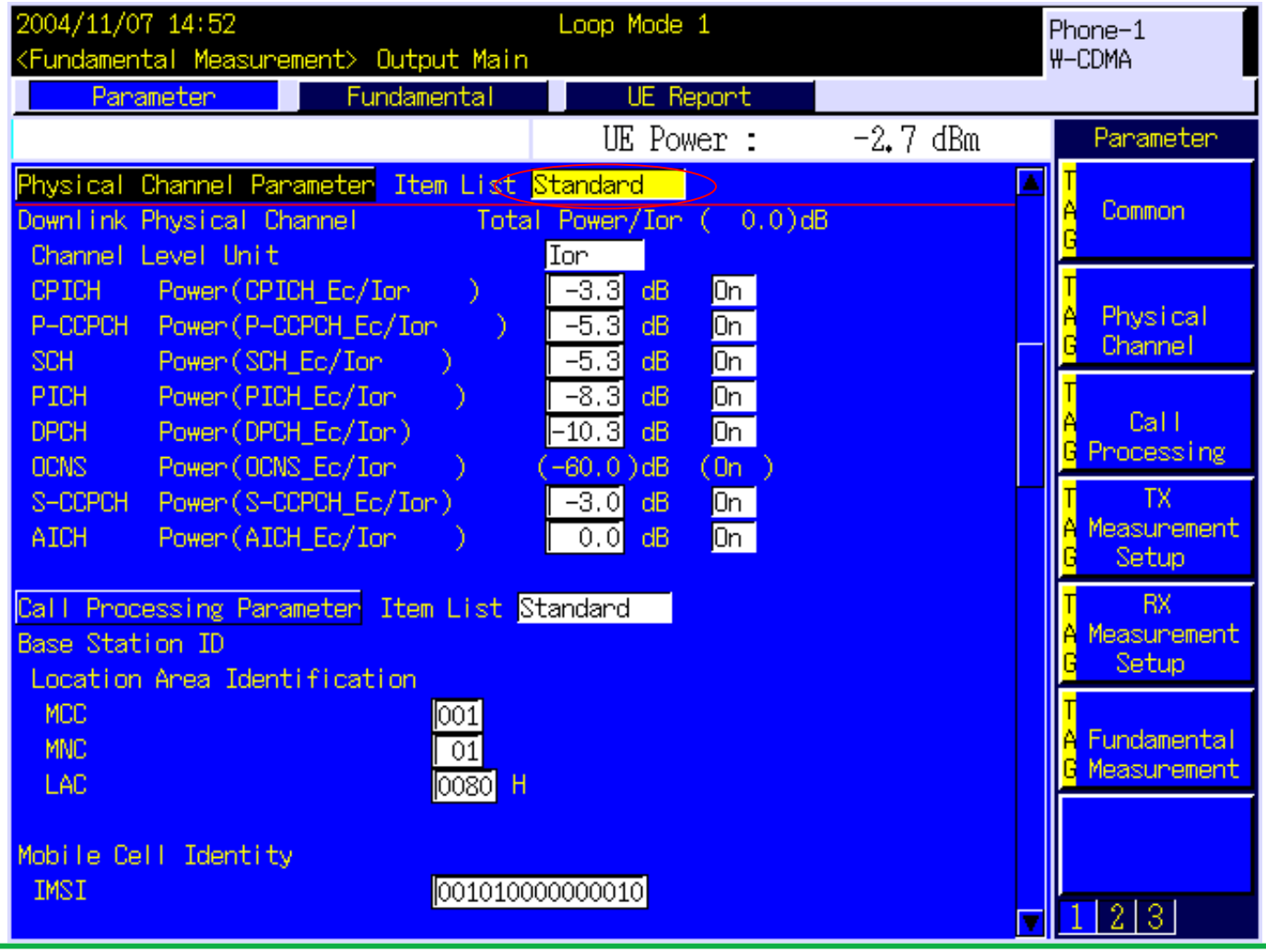


Fig. 3.2.1-1 Fundamental Measurement screen - Parameter window (Full Window)

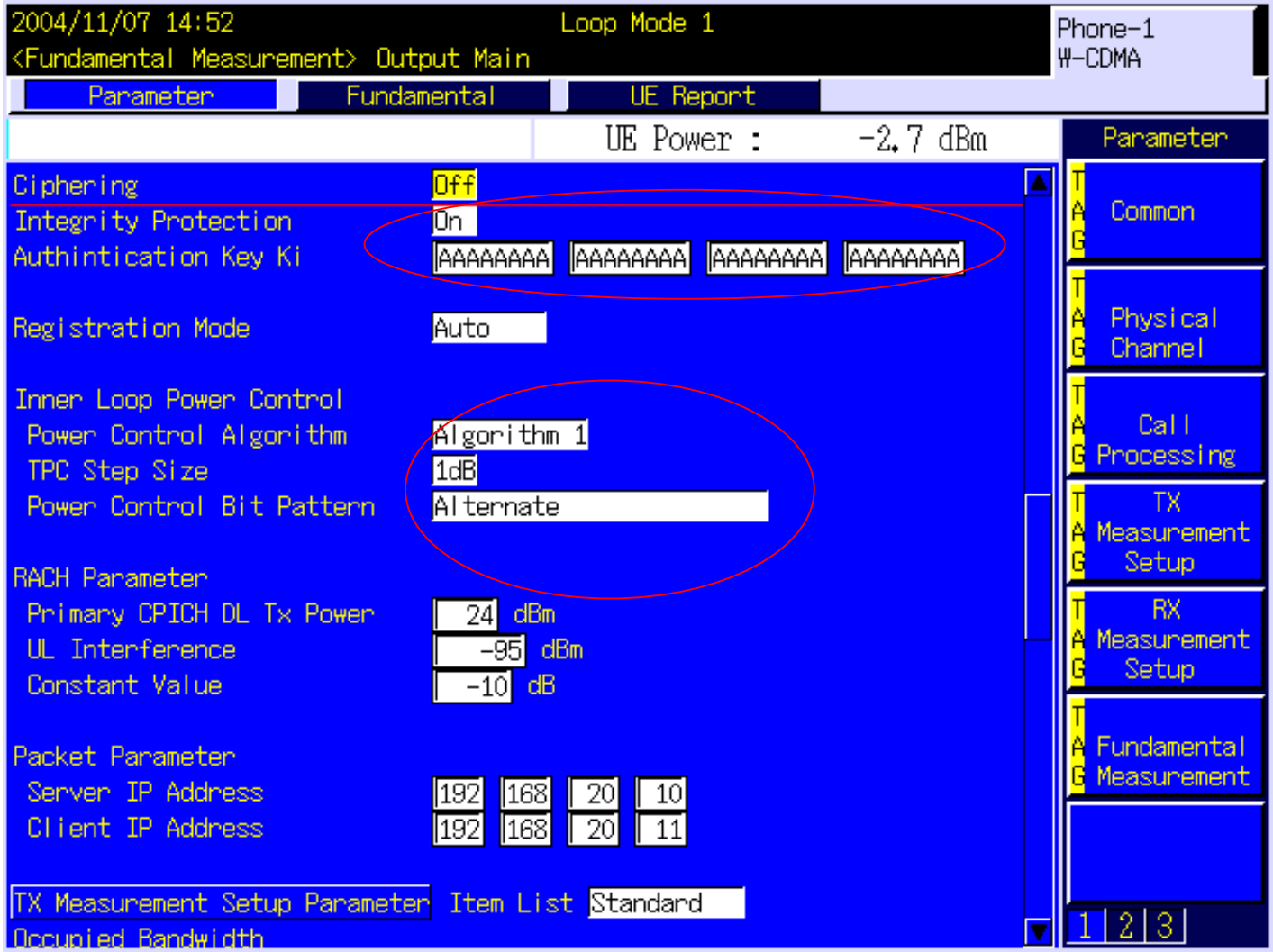
参数（1）


2004/11/07 14:52
Loop Mode 1
Phone-1
W-CDMA
<Fundamental Measurement> Output Main
Parameter
Fundamental
UE Report
UE Power : -2.7 dBm
Common Parameter Item List Standard
Call Processing On Test Loop Mode Mode 1
Frequency
UL Channel & Frequency 9738 CH = 1947.600000 MHz
DL Channel & Frequency 10688 CH = 2137.600000 MHz
Frequency Separation (190.0)MHz
Level
Input Level -15.0 dBm
Output Level(Total) -65.7 dBm On Level Continuous Off
AWGN Level -20.0 dB Off
External Loss(Main DL) -2.0 dB Off
External Loss(Main UL) 2.0 dB Off
External Loss(Aux) 0.0 dB Off
External Loss Table (0)
Signal
Channel Coding Reference Measurement Channel
DTCH Data Pattern PN9
Prioritised RABs DL Max. Rate 12.2kbps
Parameter
TAG Common
TAG Physical Channel
TAG Call Processing
TAG TX Measurement Setup
TAG RX Measurement Setup
TAG Fundamental Measurement
1 2 3

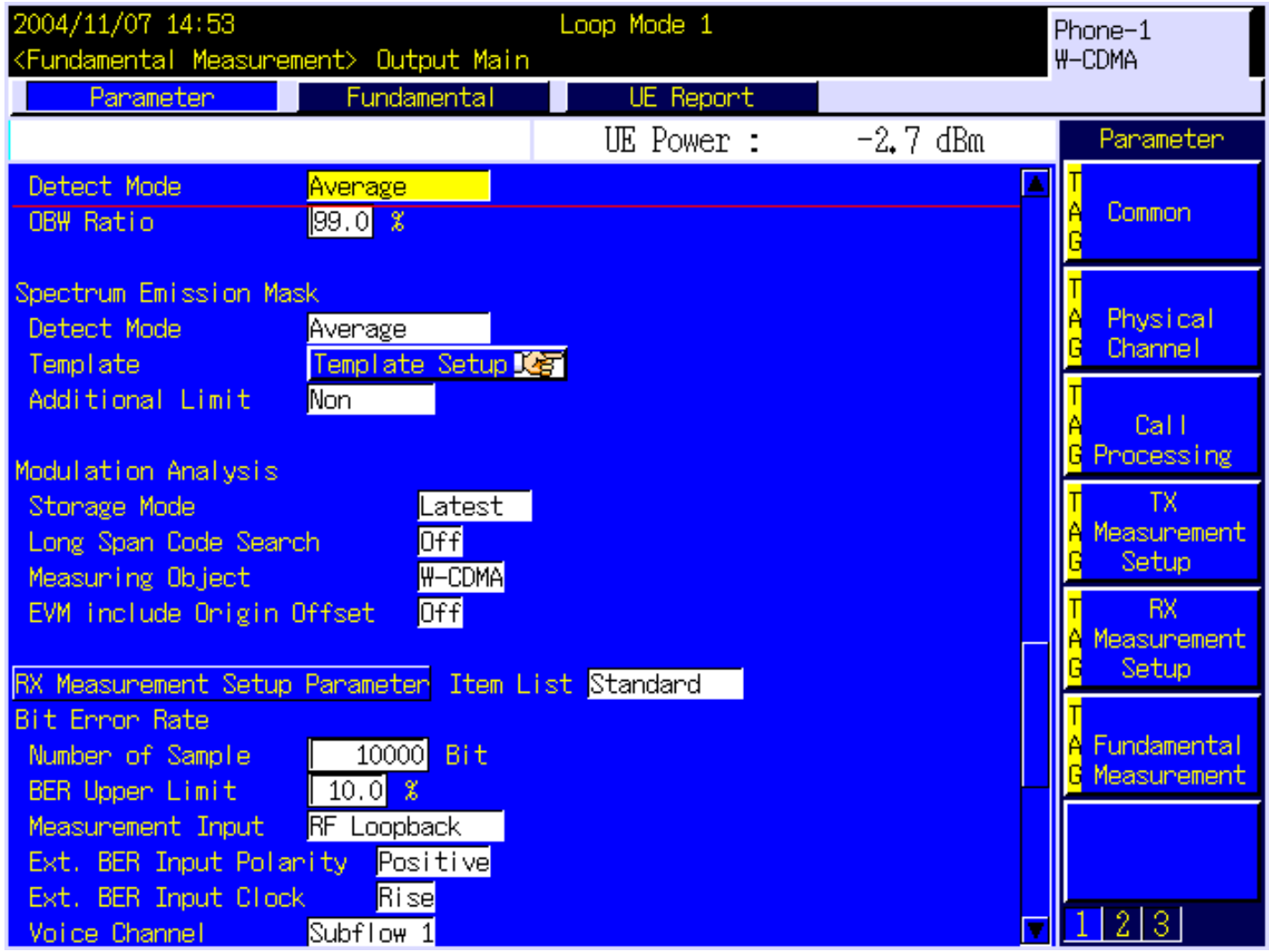
参数（2）


2004/11/07 14:52
Loop Mode 1
<Fundamental Measurement> Output Main
Phone-1
W-CDMA
Parameter
Fundamental
UE Report
UE Power : -2.7 dBm
Physical Channel Parameter Item List Standard
Downlink Physical Channel Total Power/Ior (0.0)dB
Channel Level Unit Ior
CPICH Power(CPICH_Ec/Ior) -3.3 dB On
P-CCPCH Power(P-CCPCH_Ec/Ior) -5.3 dB On
SCH Power(SCH_Ec/Ior) -5.3 dB On
PICH Power(PICH_Ec/Ior) -8.3 dB On
DPCH Power(DPCH_Ec/Ior) -10.3 dB On
OCNS Power(OCNS_Ec/Ior) (-60.0)dB (On)
S-CCPCH Power(S-CCPCH_Ec/Ior) -3.0 dB On
AICH Power(AICH_Ec/Ior) 0.0 dB On
Call Processing Parameter Item List Standard
Base Station ID
Location Area Identification
MCC 001
MNC 01
LAC 0080 H
Mobile Cell Identity
IMSI 001010000000010
Parameter
TAG Common
TAG Physical Channel
TAG Call Processing
TAG TX Measurement Setup
TAG RX Measurement Setup
TAG Fundamental Measurement
1 2 3

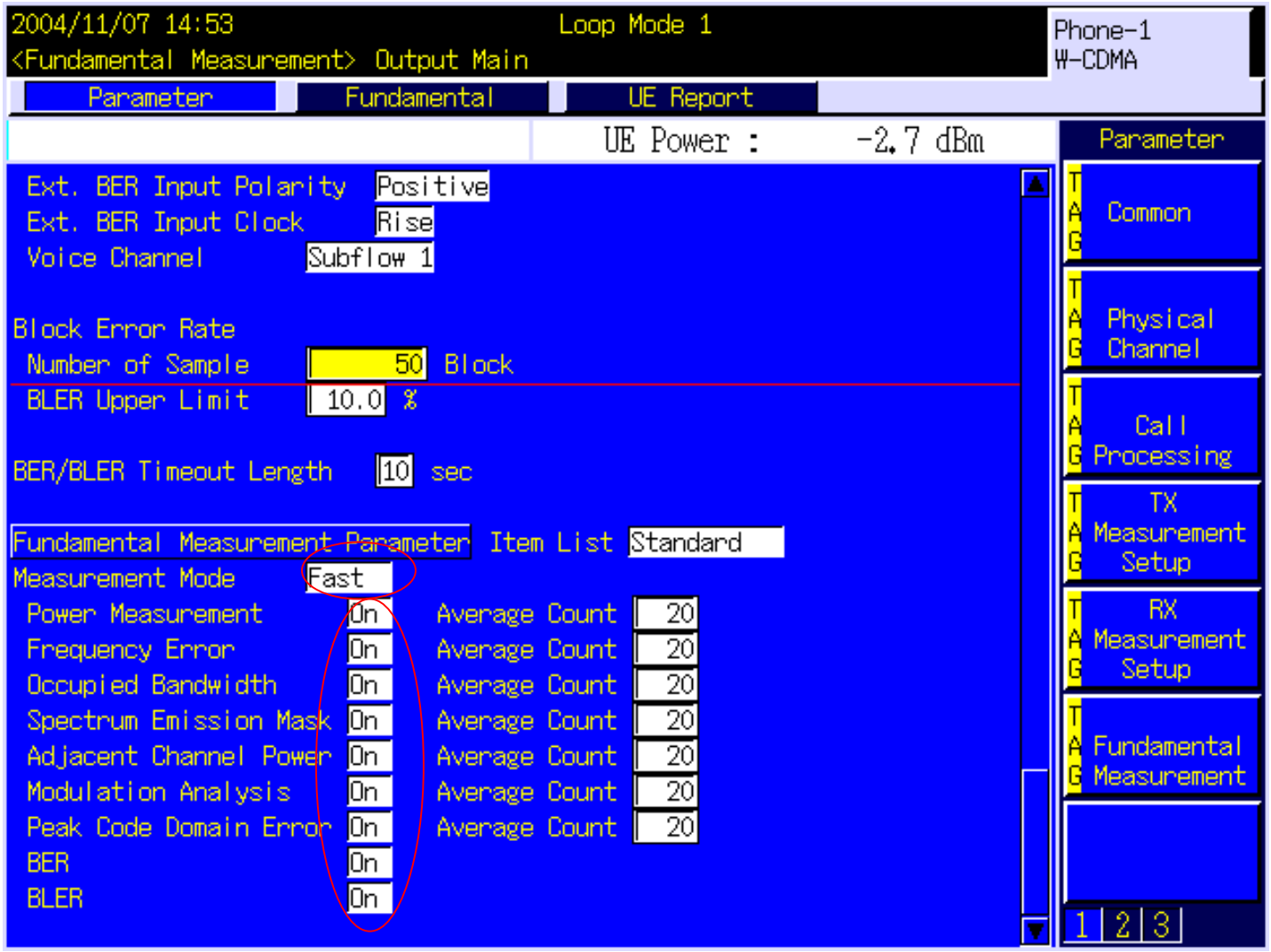
参数 (3)


2004/11/07 14:52
Loop Mode 1
<Fundamental Measurement> Output Main
Phone-1
W-CDMA
Parameter
Fundamental
UE Report
UE Power : -2.7 dBm
Ciphering Off
Integrity Protection On
Authintication Key Ki AAAAAAAA AAAAAAAA AAAAAAAA AAAAAAAA
Registration Mode Auto
Inner Loop Power Control
Power Control Algorithm Algorithm 1
TPC Step Size 1dB
Power Control Bit Pattern Alternate
RACH Parameter
Primary CPICH DL Tx Power 24 dBm
UL Interference -95 dBm
Constant Value -10 dB
Packet Parameter
Server IP Address 192 168 20 10
Client IP Address 192 168 20 11
TX Measurement Setup Parameter Item List Standard
Occupied Bandwidth
Parameter
TAG Common
TAG Physical Channel
TAG Call Processing
TAG TX Measurement Setup
TAG RX Measurement Setup
TAG Fundamental Measurement
1 2 3

参数（4）

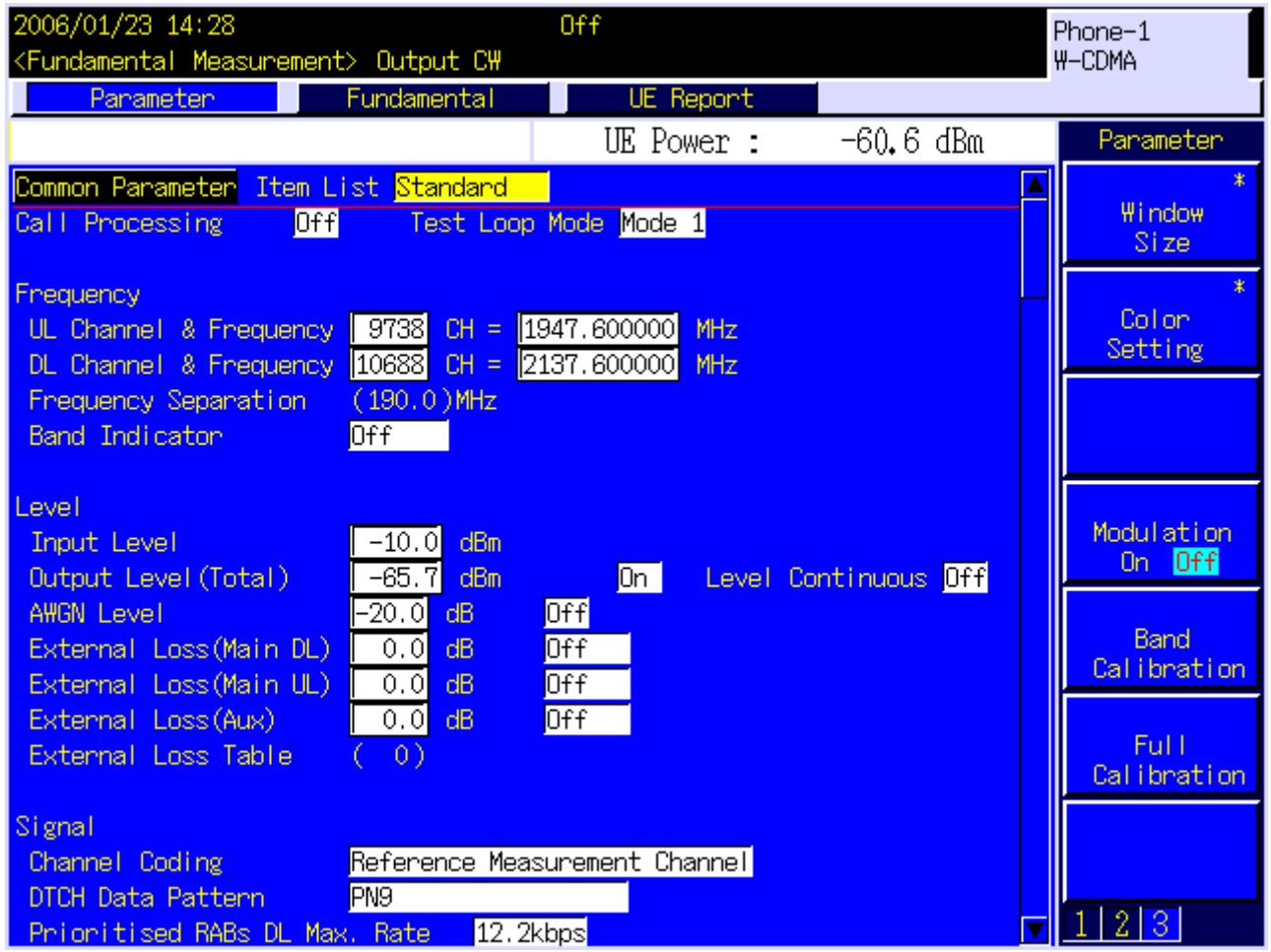

2004/11/07 14:53
Loop Mode 1
<Fundamental Measurement> Output Main
Phone-1
W-CDMA
Parameter
Fundamental
UE Report
UE Power : -2.7 dBm
Parameter
Detect Mode Average
OBW Ratio 99.0 %
Spectrum Emission Mask
Detect Mode Average
Template Template Setup
Additional Limit Non
Modulation Analysis
Storage Mode Latest
Long Span Code Search Off
Measuring Object W-CDMA
EVM include Origin Offset Off
RX Measurement Setup Parameter Item List Standard
Bit Error Rate
Number of Sample 10000 Bit
BER Upper Limit 10.0 %
Measurement Input RF Loopback
Ext. BER Input Polarity Positive
Ext. BER Input Clock Rise
Voice Channel Subflow 1
TAG Common
TAG Physical Channel
TAG Call Processing
TAG TX Measurement Setup
TAG RX Measurement Setup
TAG Fundamental Measurement
1 2 3

参数（5)

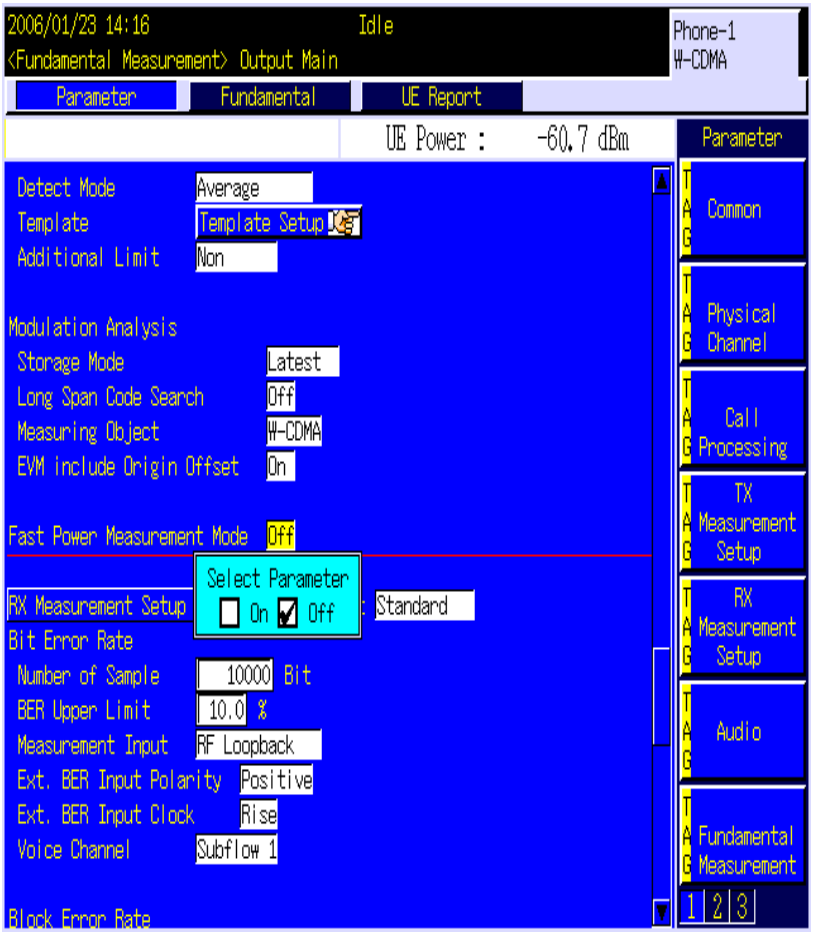

2004/11/07 14:53
Loop Mode 1
<Fundamental Measurement> Output Main
Phone-1
W-CDMA
Parameter
Fundamental
UE Report
UE Power : -2.7 dBm
Ext. BER Input Polarity Positive
Ext. BER Input Clock Rise
Voice Channel Subflow 1
Block Error Rate
Number of Sample 50 Block
BLER Upper Limit 10.0 %
BER/BLER Timeout Length 10 sec
Fundamental Measurement Parameter
Item List Standard
Measurement Mode Fast
Power Measurement On Average Count 20
Frequency Error On Average Count 20
Occupied Bandwidth On Average Count 20
Spectrum Emission Mask On Average Count 20
Adjacent Channel Power On Average Count 20
Modulation Analysis On Average Count 20
Peak Code Domain Error On Average Count 20
BER On
BLER On
Parameter
TAG Common
TAG Physical Channel
TAG Call Processing
TAG TX Measurement Setup
TAG RX Measurement Setup
TAG Fundamental Measurement
1 2 3

MT8820A相关参数设置说明

输出CW信号:


2006/01/23 14:28
Off
<Fundamental Measurement> Output CW
Phone-1
W-CDMA
Parameter
Fundamental
UE Report
UE Power : -60.6 dBm
Parameter
Common Parameter
Item List
Standard
Call Processing
Off
Test Loop Mode
Mode 1
Frequency
UL Channel & Frequency
9738
CH =
1947.600000
MHz
DL Channel & Frequency
10688
CH =
2137.600000
MHz
Frequency Separation
(190.0)MHz
Band Indicator
Off
Level
Input Level
-10.0
dBm
Output Level(Total)
-65.7
dBm
On
Level Continuous
Off
AWGN Level
-20.0
dB
Off
External Loss(Main DL)
0.0
dB
Off
External Loss(Main UL)
0.0
dB
Off
External Loss(Aux)
0.0
dB
Off
External Loss Table
(0)
Signal
Channel Coding
Reference Measurement Channel
DTCH Data Pattern
PN9
Prioritised RABs DL Max. Rate
12.2kbps
Window Size
Color Setting
Modulation On Off
Band Calibration
Full Calibration
1 2 3

Fast Power Measurement Mode :



当 Fast Power Measurement Mode 被设成 On，可以加快测量功率的速度；

但同时，其它的TX项目不可以被测量。

Basic Spectrum parameter Setting :

MT8820A WCDMA测试步骤

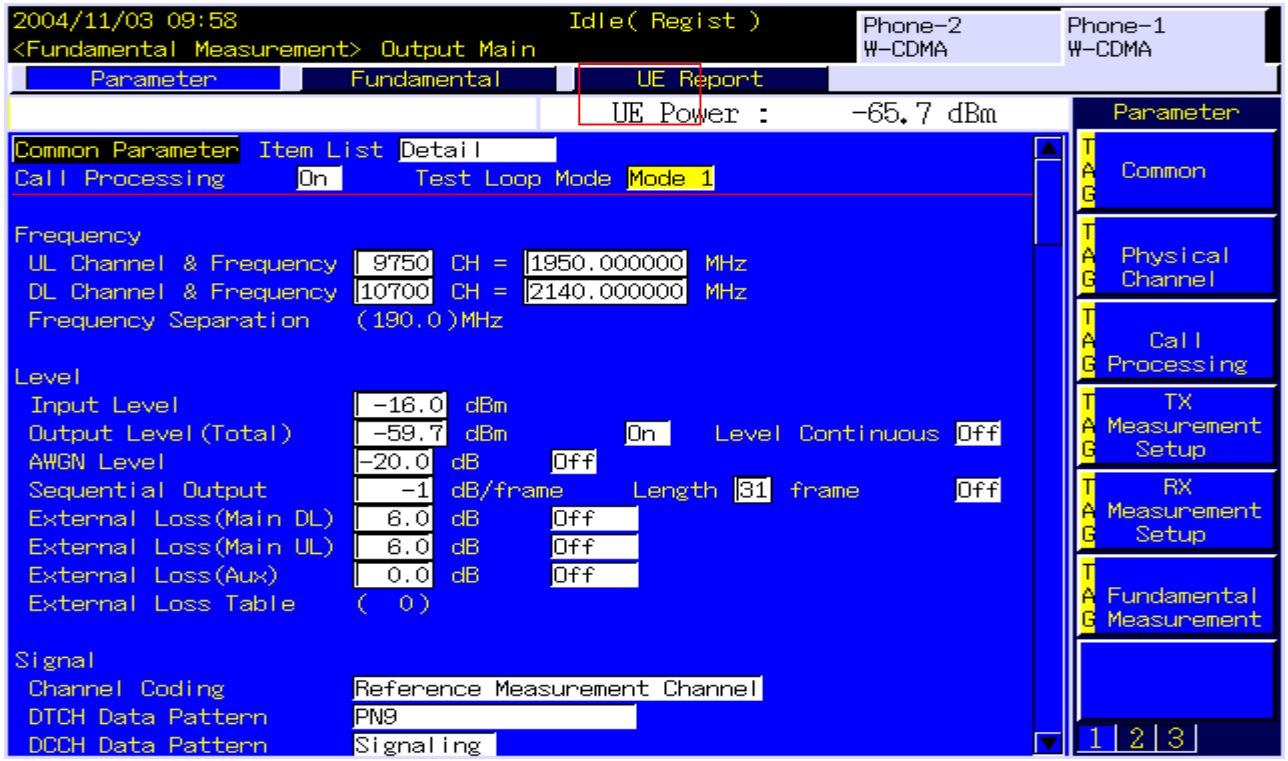
WCDMA 测试项目

1, 最大输出功率<TX>
2, 频率误差 <TX>
3, 占用带宽 <TX>
4, 频谱发射模板 <TX>
5, 邻信道功率泄漏比 <TX>
6,矢量幅度误差 <TX>
7, 参考灵敏度<RX>
8, 最小输出功率 <TX>
9, 内环功率控制 <TX>
10, 最大输入电平<RX>

最大输出功率

push **Focus** **Parameter**

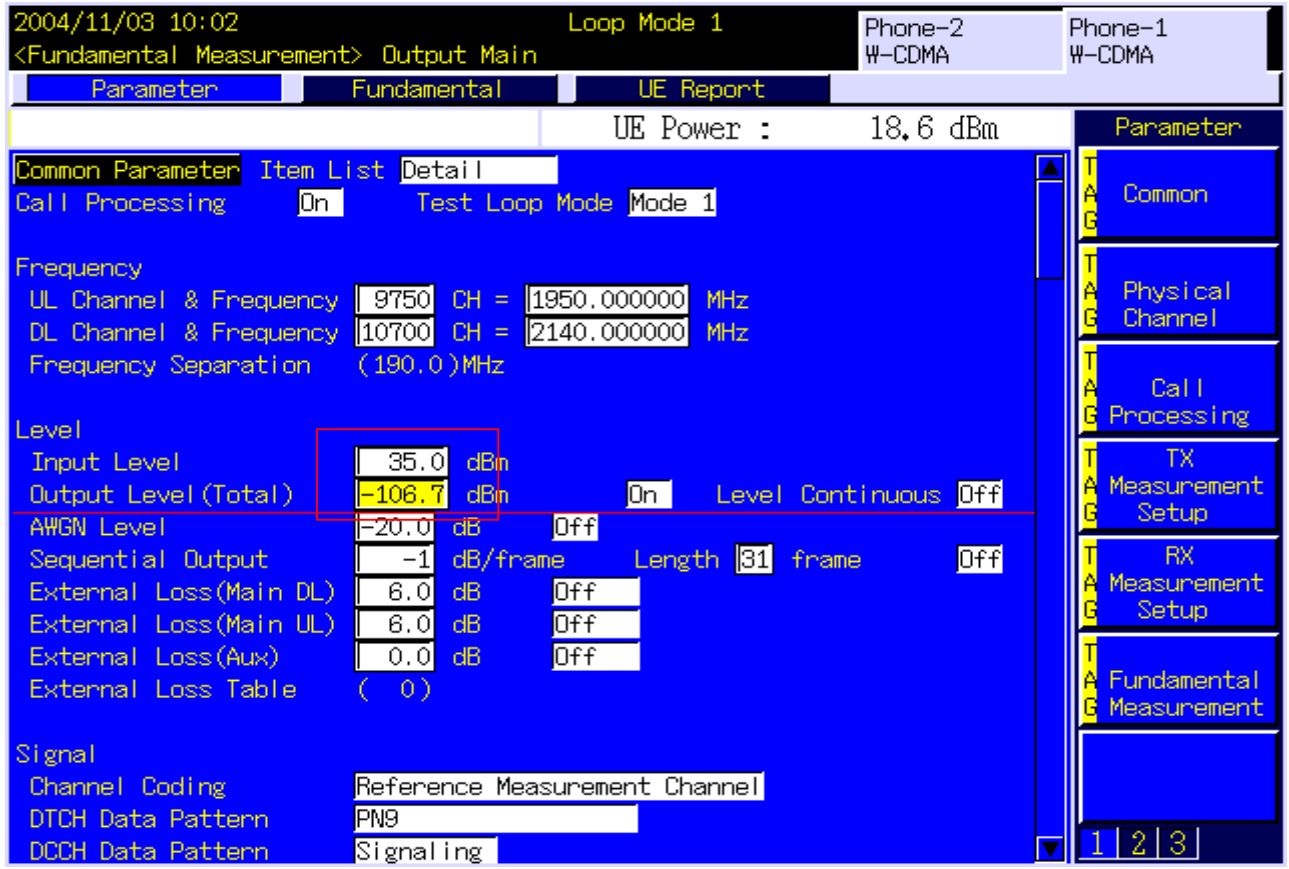
1. Connect to Test Loop Mode1.



最大输出功率

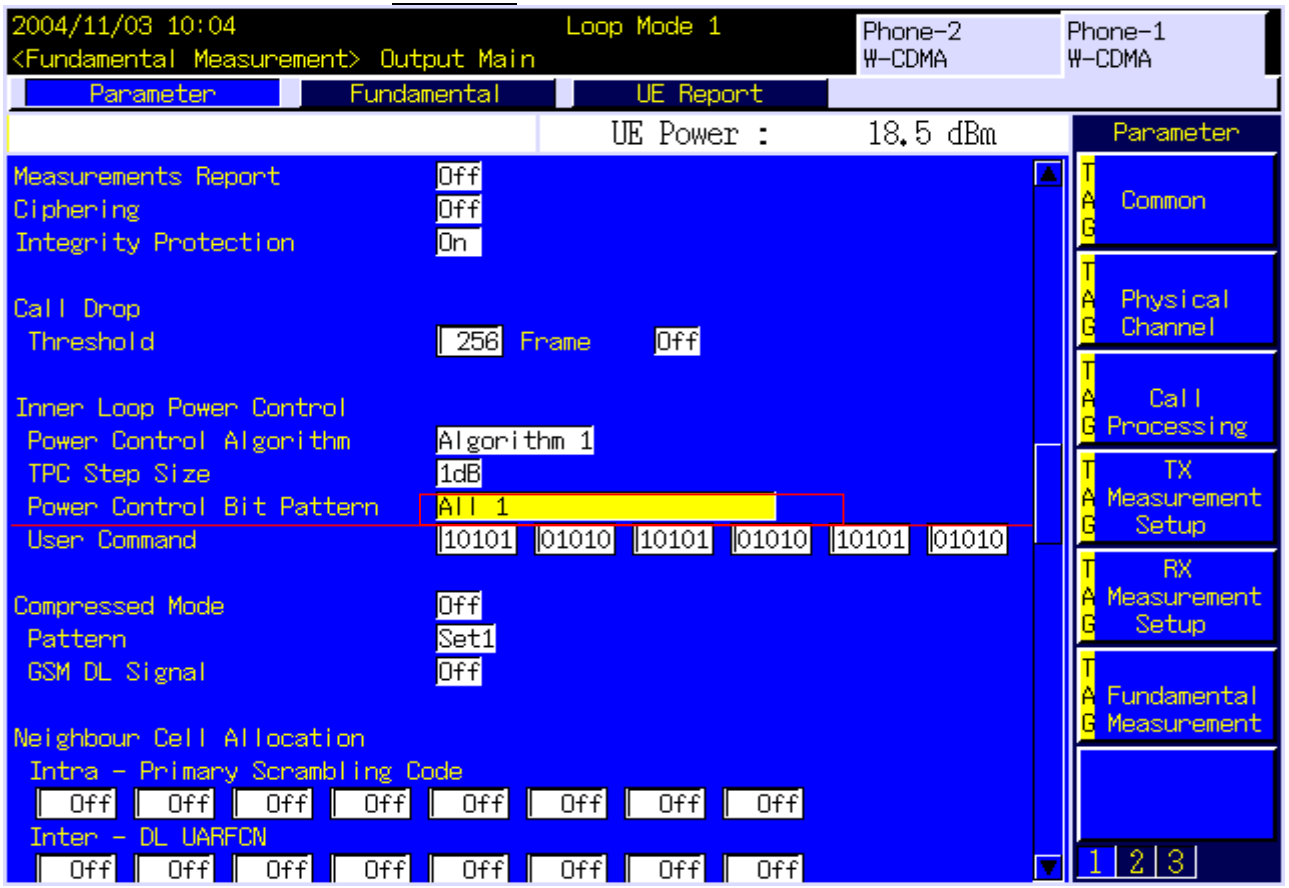
2 set Input Level to +35.0dBm.

3 set Output Level to -106.7dBm.



最大输出功率

4 set TPC Pattern to ALL1.

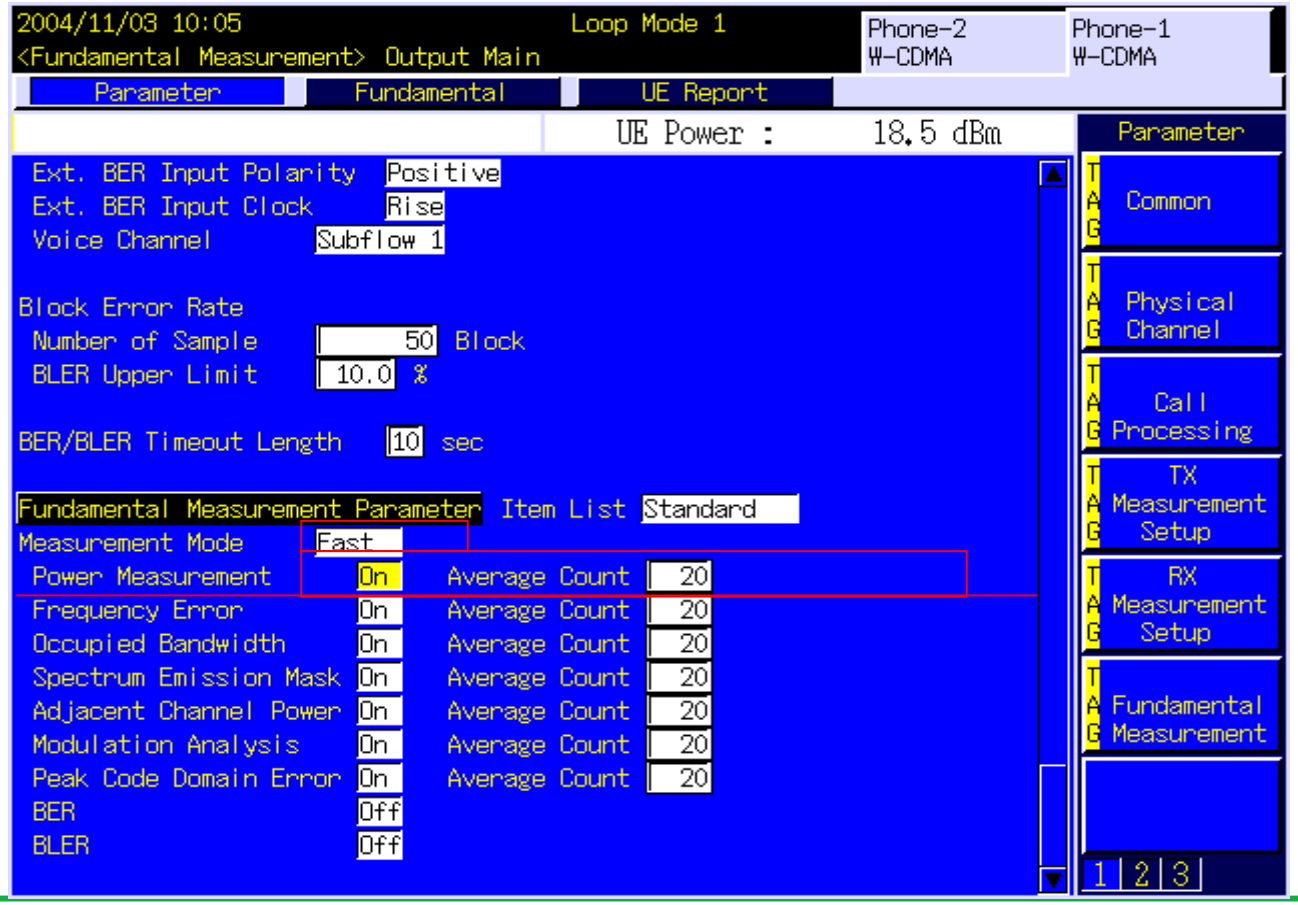


最大输出功率

5. set Power Measurement to On.

6 set the average count of power measurement to 20 times.

normal



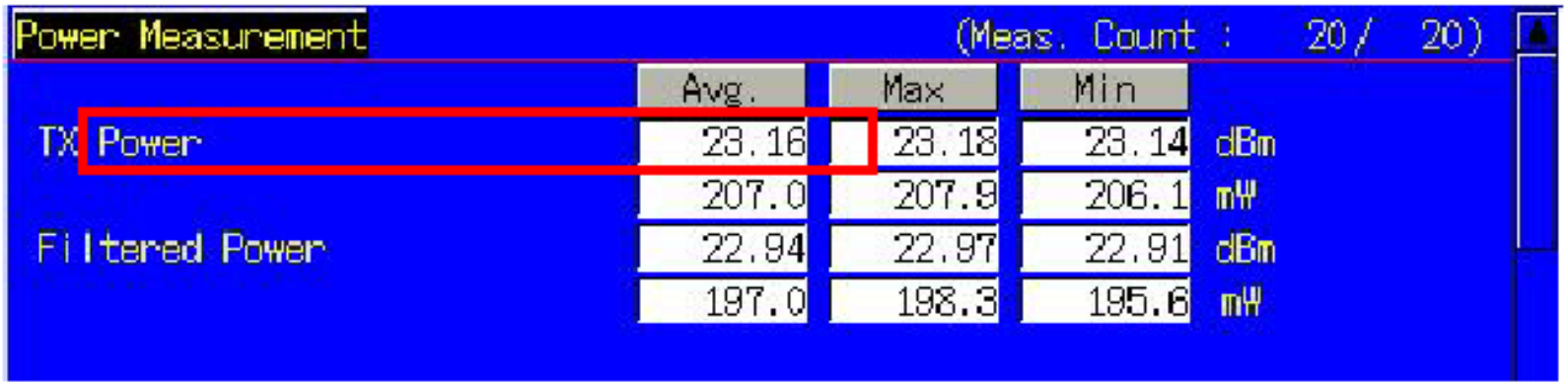
最大输出功率

push **Focus** **Single / continuous**

7 perform power measurement.

8 read the result of power measurement.

Fundamental



TX Power corresponds to Mean power (5MHz band), and Filtered Power corresponds to RRC filtered mean power.

频率误差

1 Test Loop Mode1.

2 set Input Level to +35.0dBm.

3 set Output Level to -106.7dBm.

4 set TPC Pattern to ALL1.

5 set Frequency Measurement to On.

6 set the average count of frequency measurement to 20 times.

7 perform frequency measurement.

8 read the result of frequency error measurement.

频率误差


Frequency Error
(Meas. Count : 20/ 20)
Avg.
Carrier Frequency
1950.000007 MHz
Avg.
Max
Min
Carrier Frequency Error
0.0068
0.0127
-0.0023 kHz
0.00
0.01
0.00 ppm

占用带宽

1 Test Loop Mode1.

2 set Input Level to +35.0dBm.

3 set Output Level to -106.7dBm.

4 set TPC Pattern to ALL1.

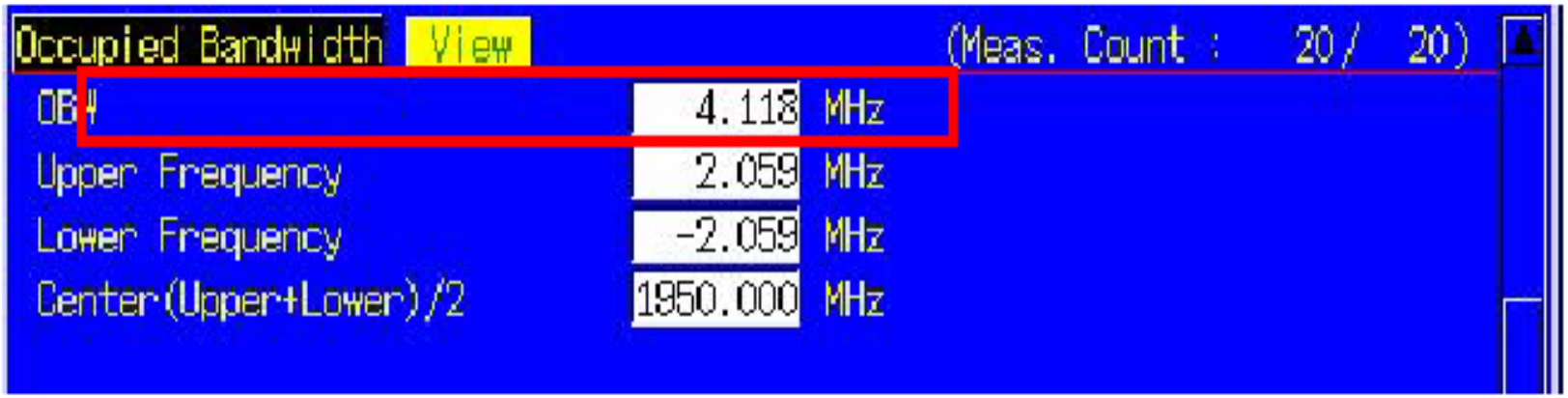
5 set OBW Measurement to On.

6 set the average count of OBW measurement to 20 times.

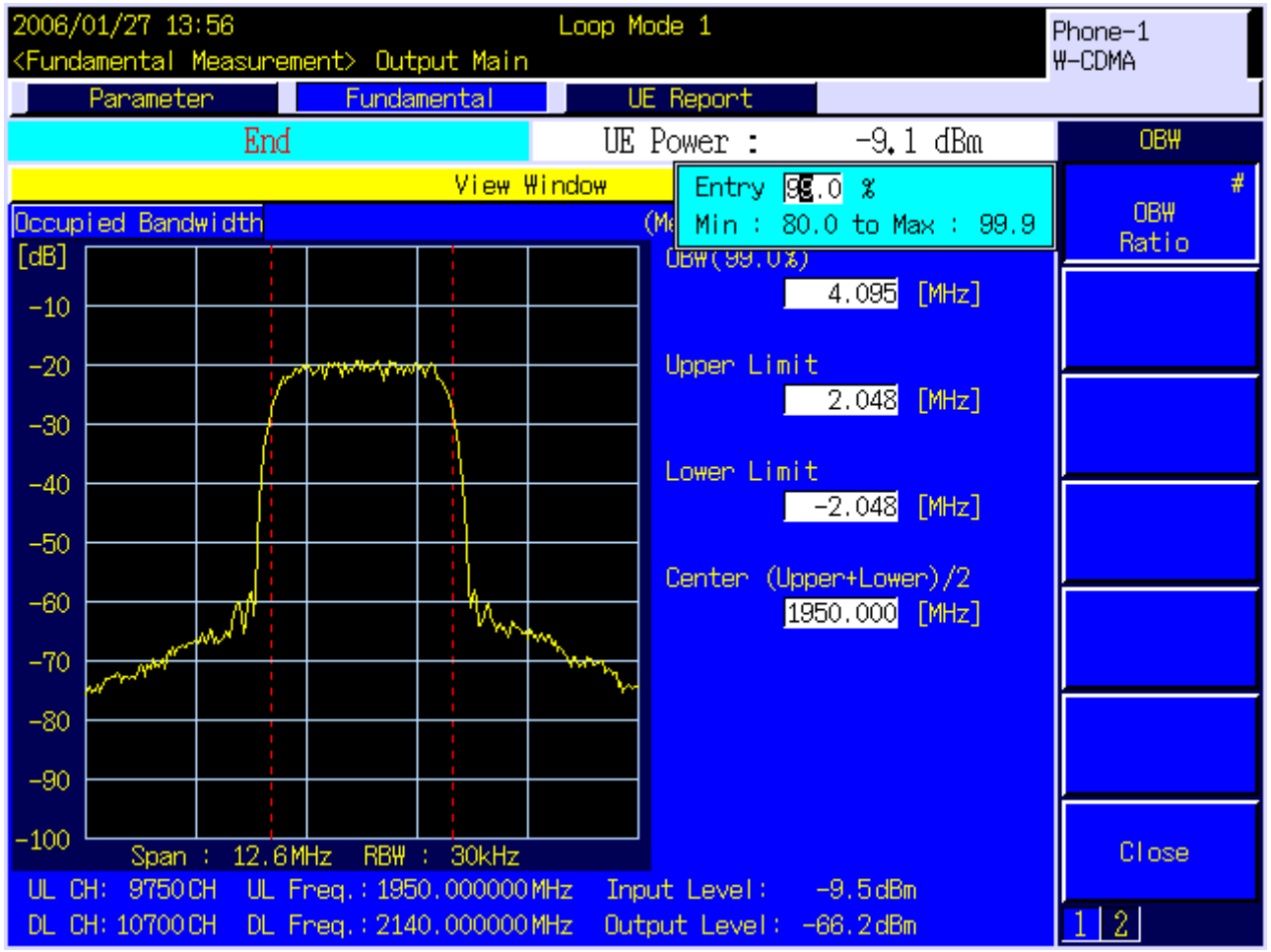
7 perform measurement.

8 read the result

占用带宽


Occupied Bandwidth
View
(Meas. Count : 20/ 20)
OBW
4.118 MHz
Upper Frequency
2.059 MHz
Lower Frequency
-2.059 MHz
Center(Upper+Lower)/2
1950.000 MHz

占用带宽--图形


2006/01/27 13:56
Loop Mode 1
<Fundamental Measurement> Output Main
Phone-1
W-CDMA
Parameter
Fundamental
UE Report
End
UE Power : -9.1 dBm
OBW
View Window
Entry 99.0 %
Min : 80.0 to Max : 99.9
Occupied Bandwidth
[dB]
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
OBW(99.0%)
4.095 [MHz]
Upper Limit
2.048 [MHz]
Lower Limit
-2.048 [MHz]
Center (Upper+Lower)/2
1950.000 [MHz]
OBW Ratio
Close
Span : 12.6MHz RBW : 30kHz
UL CH: 9750CH UL Freq.: 1950.000000MHz Input Level: -9.5dBm
DL CH: 10700CH DL Freq.: 2140.000000MHz Output Level: -66.2dBm
1 2

频谱发射模板

1 Test Loop Mode1.

2 set Input Level to +35.0dBm.

3 set Output Level to -106.7dBm.

4 set TPC Pattern to ALL1.

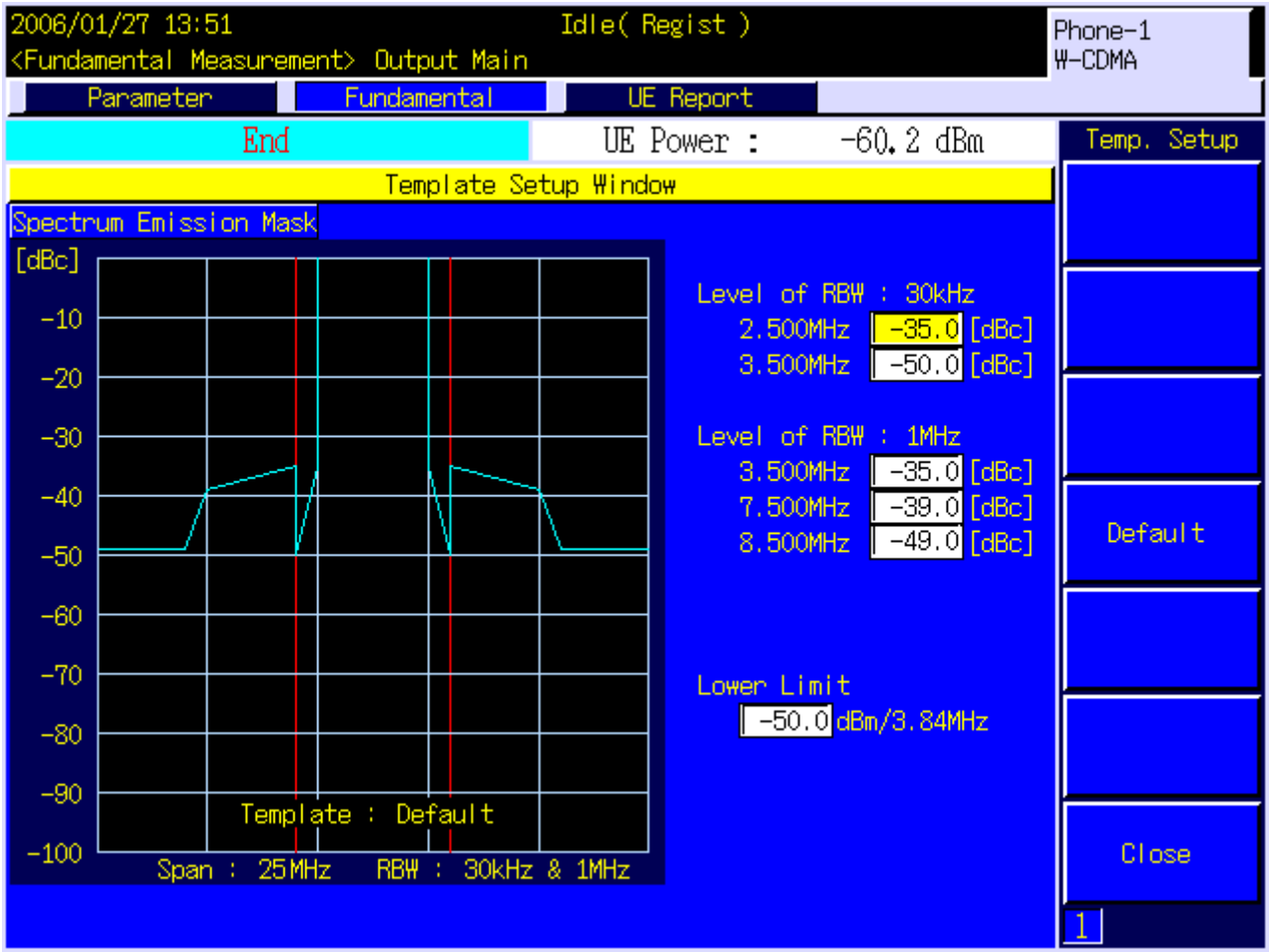
5 set SEM Measurement to On.

6 set the average count of SEM measurement to 20 times.

7 perform measurement.

8 read the result .

频谱发射模板—图形


2006/01/27 13:51
Idle(Regist)
<Fundamental Measurement> Output Main
Phone-1
W-CDMA
Parameter
Fundamental
UE Report
End
UE Power : -60.2 dBm
Temp. Setup
Template Setup Window
Spectrum Emission Mask
[dBc]
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
Template : Default
Span : 25MHz RBW : 30kHz & 1MHz
Level of RBW : 30kHz
2.500MHz -35.0 [dBc]
3.500MHz -50.0 [dBc]
Level of RBW : 1MHz
3.500MHz -35.0 [dBc]
7.500MHz -39.0 [dBc]
8.500MHz -49.0 [dBc]
Lower Limit
-50.0 dBm/3.84MHz
Default
Close
1

频谱发射模板—图形

Measured value shown in yellow, template shown in blue

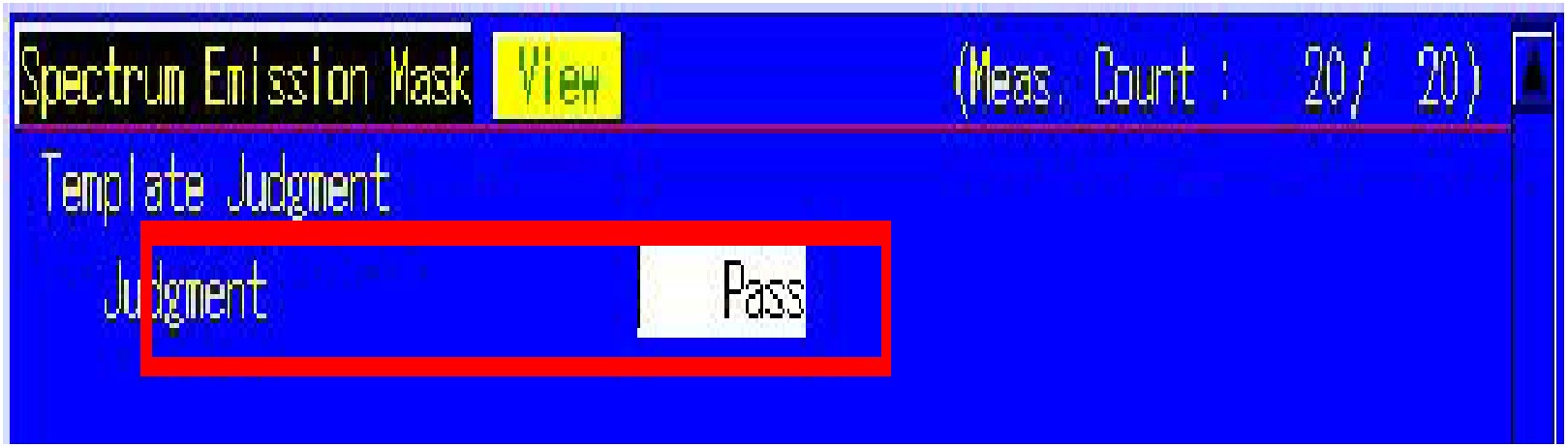
Switch marker on

Switch marker off

Edit template

Marker readings

频谱发射模板


Spectrum Emission Mask
View
(Meas. Count : 20/ 20)
Template Judgment
Judgment
Pass

邻信道功率泄漏比

1 Test Loop Mode1.

2 set Input Level to +35.0dBm.

3 set Output Level to -106.7dBm.

4 set TPC Pattern to ALL1.

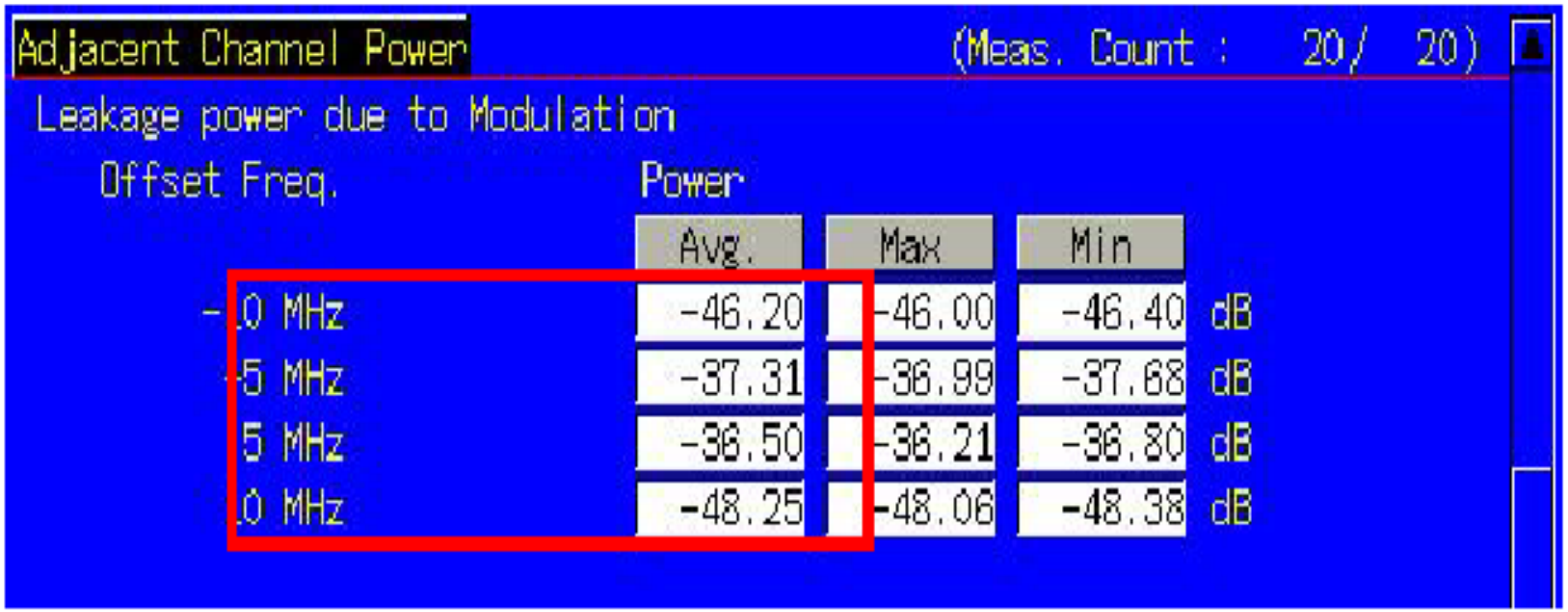
5 set ACLR Measurement to On.

6 set the average count of ACLR measurement to 20 times.

7 perform Measurement .

8 read the result.

邻信道功率泄漏比


Adjacent Channel Power
(Meas. Count : 20/ 20)
Leakage power due to Modulation
Offset Freq.
Power
Avg.
Max
Min
.0 MHz
-46.20
-46.00
-46.40
dB
5 MHz
-37.31
-36.99
-37.68
dB
5 MHz
-36.50
-36.21
-36.80
dB
.0 MHz
-48.25
-48.06
-48.38
dB

矢量幅度误差 (EVM)

1 Test Loop Mode1.

2 set Input Level to +35.0dBm.

3 set Output Level to -106.7dBm.

4 set TPC Pattern to ALL1.

5 set EVM Measurement to On.

6 set the average count of EVM measurement to 20 times.

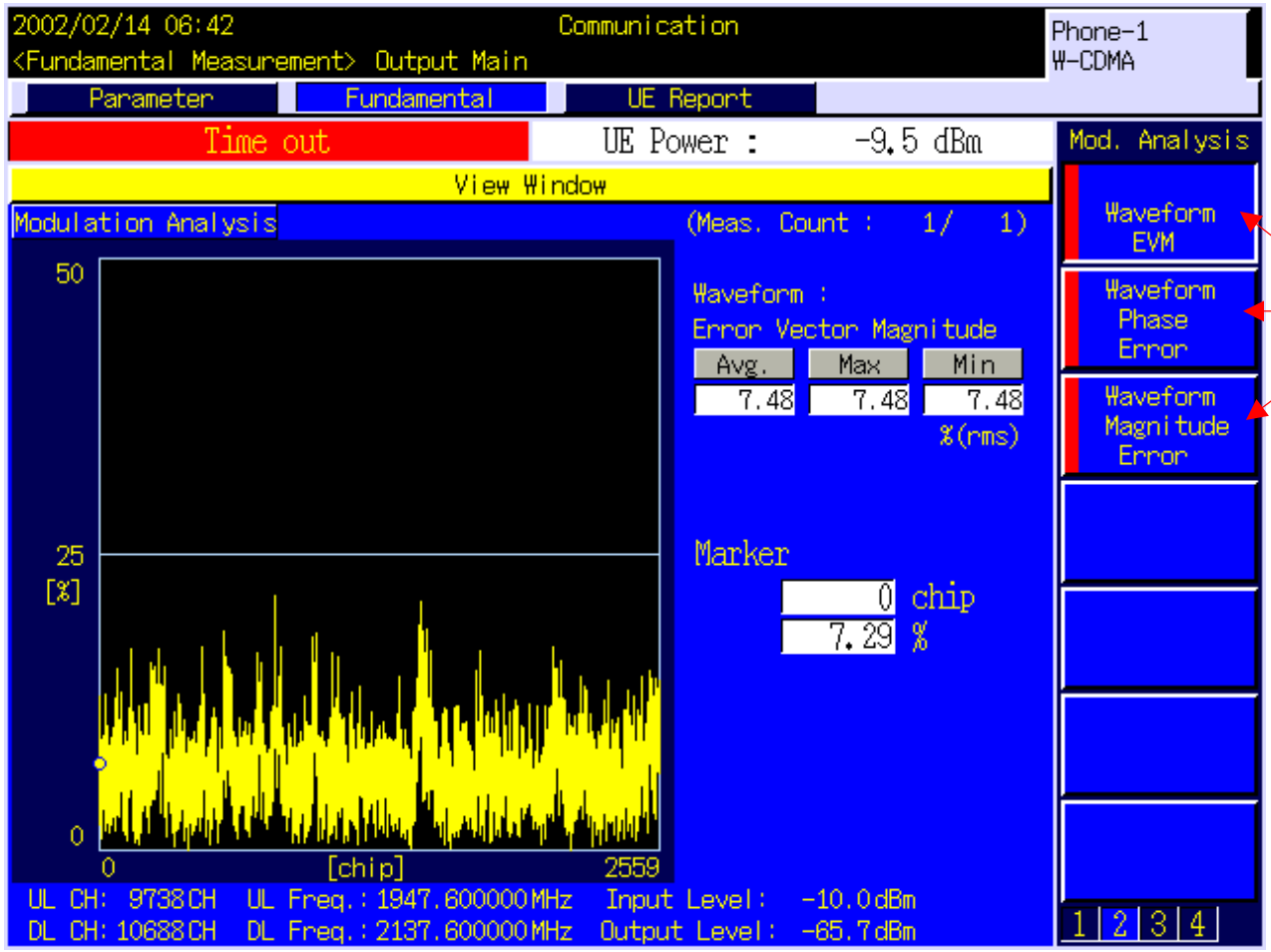
7 perform measurement.

8 read the result.

矢量幅度误差 (EVM)


Modulation Analysis
View
(Meas. Count : 20/ 20)
Avg
Max
Min
Error Vector Magnitude 7.31 7.44 7.13 %(rms)
Peak Vector Error 17.34 18.51 15.87 %
Phase Error 3.14 3.23 3.02 deg.(rms)
Magnitude Error 4.83 4.88 4.76 %(rms)
Origin Offset -25.78 -25.52 -26.10 dB
IQ Imbalance 102.75 103.51 101.99 %(I/Q)
Timing Error 0.4 0.5 0.3 chip
DPCCH/DPDCH Power Ratio -5.48 -5.44 -5.51 dB

调制精度—图形



Select modulation type to view

EVM

Phase

Magnitude

参考灵敏度测试

1 Test Loop Mode1.

2 set Input Level to +35.0dBm.

3 set Output Level to -106.7dBm.

4 set TPC Pattern to ALL1.

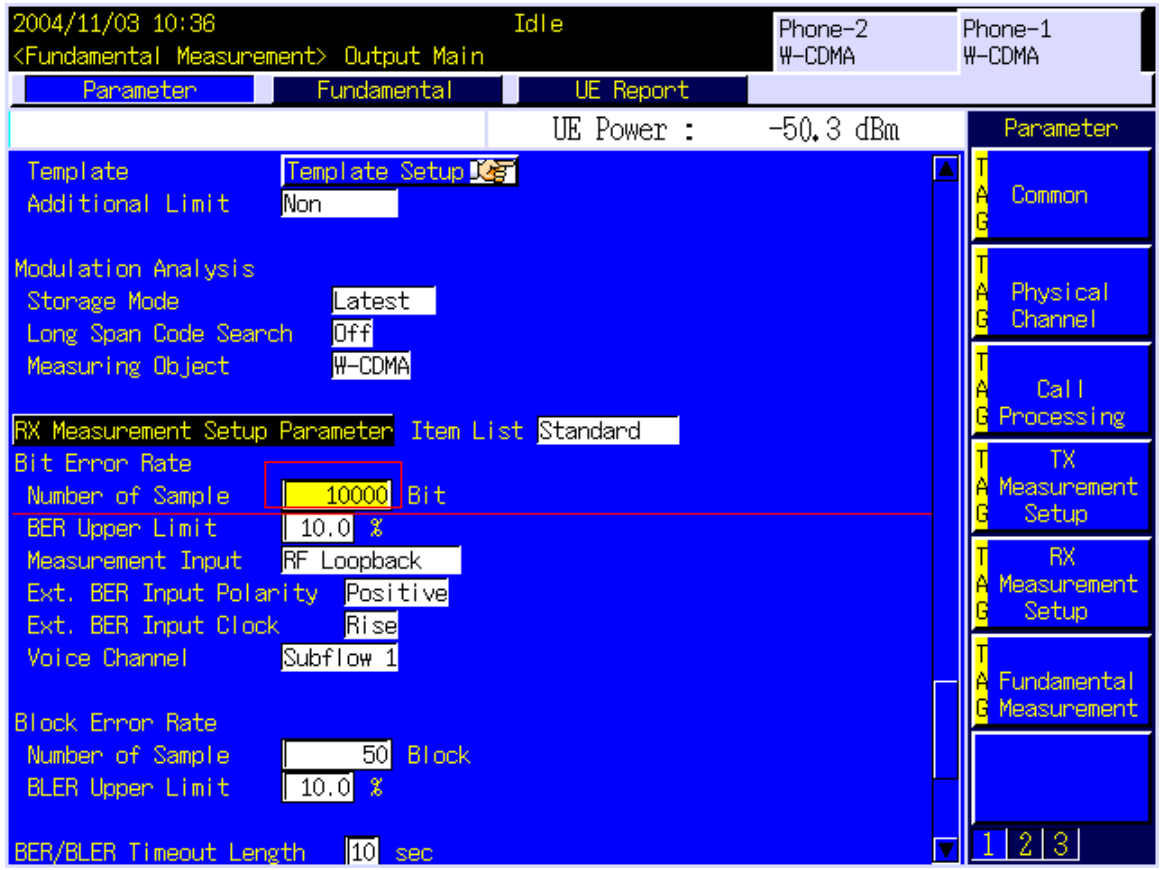
5 set BER Measurement to On.

6 set the number of BER measurement samples to 10000 bits.

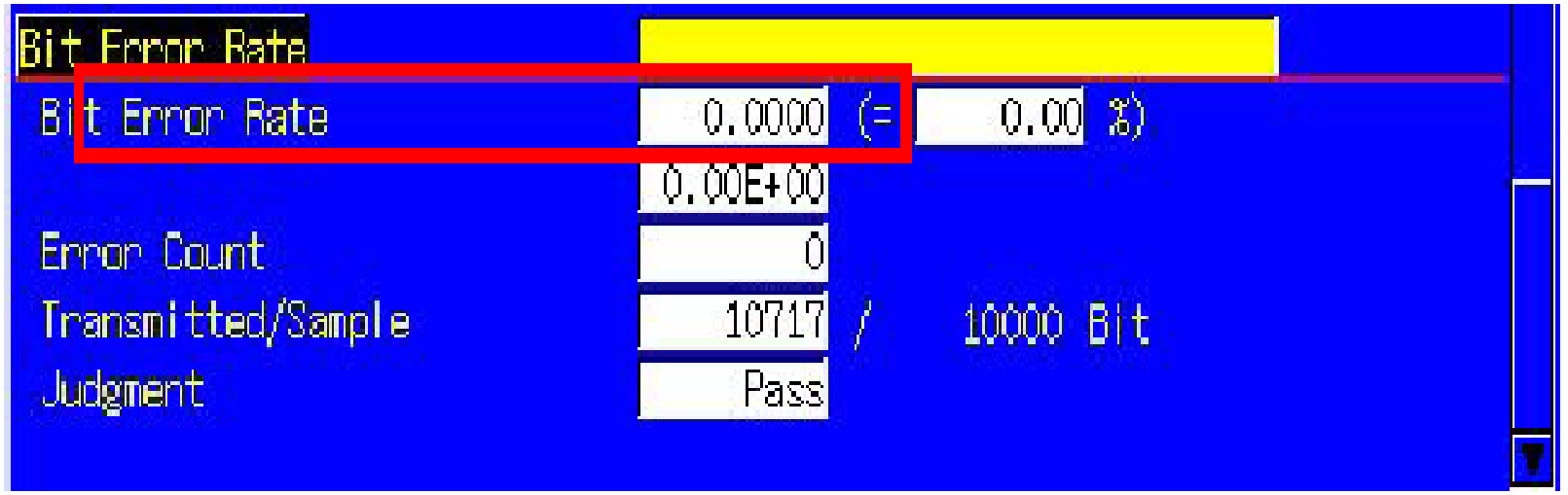
7 perform measurement.

8 read the result.

参考灵敏度测试


2004/11/03 10:36
Idle
<Fundamental Measurement> Output Main
Phone-2
W-CDMA
Phone-1
W-CDMA
Parameter
Fundamental
UE Report
UE Power : -50.3 dBm
Template
Template Setup
Additional Limit
Non
Modulation Analysis
Storage Mode
Latest
Long Span Code Search
Off
Measuring Object
W-CDMA
RX Measurement Setup Parameter
Item List
Standard
Bit Error Rate
Number of Sample
10000
Bit
BER Upper Limit
10.0
%
Measurement Input
RF Loopback
Ext. BER Input Polarity
Positive
Ext. BER Input Clock
Rise
Voice Channel
Subflow 1
Block Error Rate
Number of Sample
50
Block
BLER Upper Limit
10.0
%
BER/BLER Timeout Length
10
sec
Parameter
TAG
Common
Physical Channel
Call Processing
TX Measurement Setup
RX Measurement Setup
Fundamental Measurement
1
2
3

参考灵敏度测试


Bit Error Rate
Bit Error Rate
0.0000
(=
0.00
%)
0.00E+00
Error Count
0
Transmitted/Sample
10717
/
10000 Bit
Judgment
Pass

最小输出功率测试

1.Test Loop Mode1.
2.set Input Level to -20.0dBm.
3.set Output Level to -93dBm.
4.set TPC Pattern to ALL0.
5.set Power Measurement to On.
6.set the average count of power measurement to 20 times.
7.perform the measurement.
8.read the result of power measurement.

最小输出功率测试

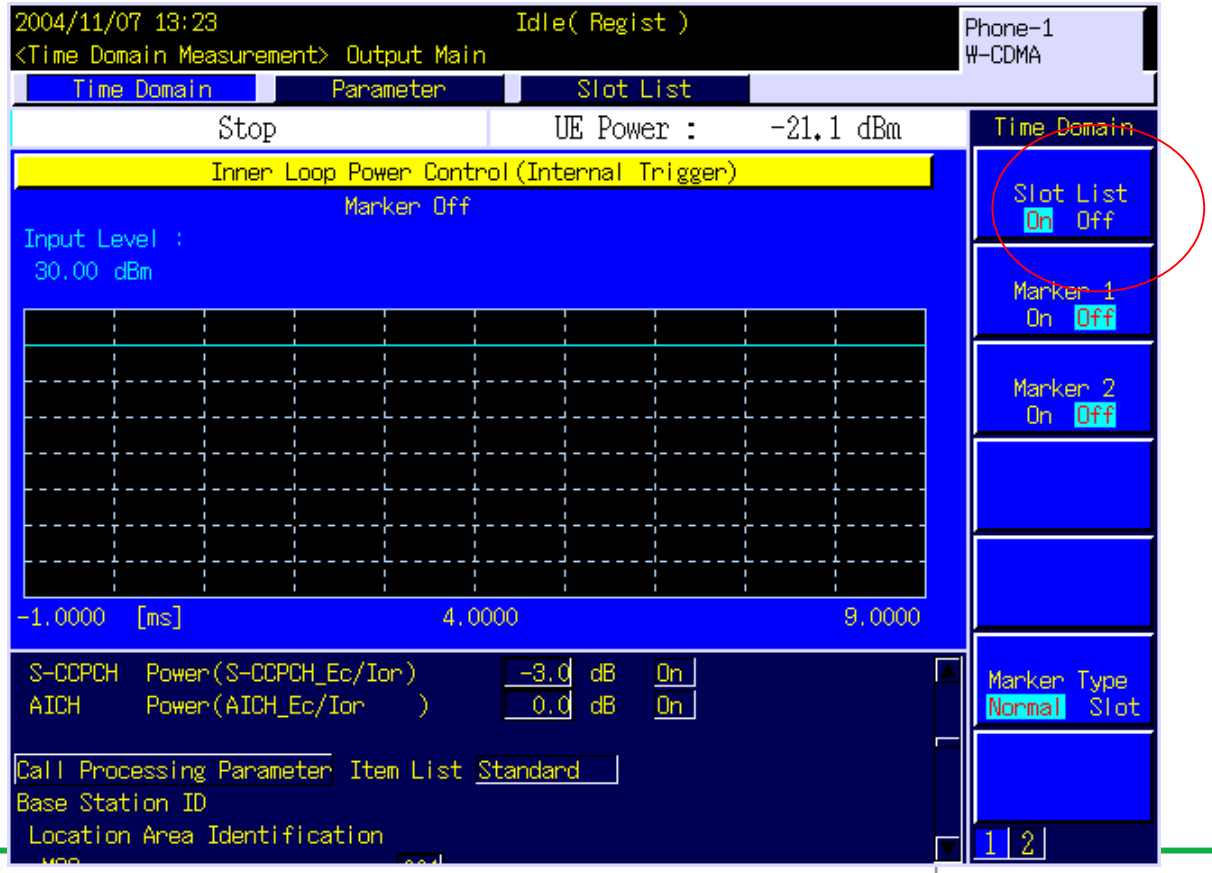

Power Measurement
(Meas. Count : 20/ 20)
Avg.
Max
Min
TX Power
-57.02
-56.93
-57.10
dBm
1.985
2.025
1.950
nW
Filtered Power
-58.92
-58.78
-59.05
dBm
1.282
1.325
1.244
nW

内环功率控制测试

1. display the Time Domain Measurement screen.
2. set Measurement Object to Inner Loop Power Control.
3. display a slot list.
4. register Slot0~Slot59 for the slot list.
5. set Time Span of Time Domain measurement to 40.0ms.
6. set TPC Algorithm to 2.
7. set TPC Step Size to 1dB.
8. set RRC Filter to Off.
9. Connect to Test Loop Mode1.

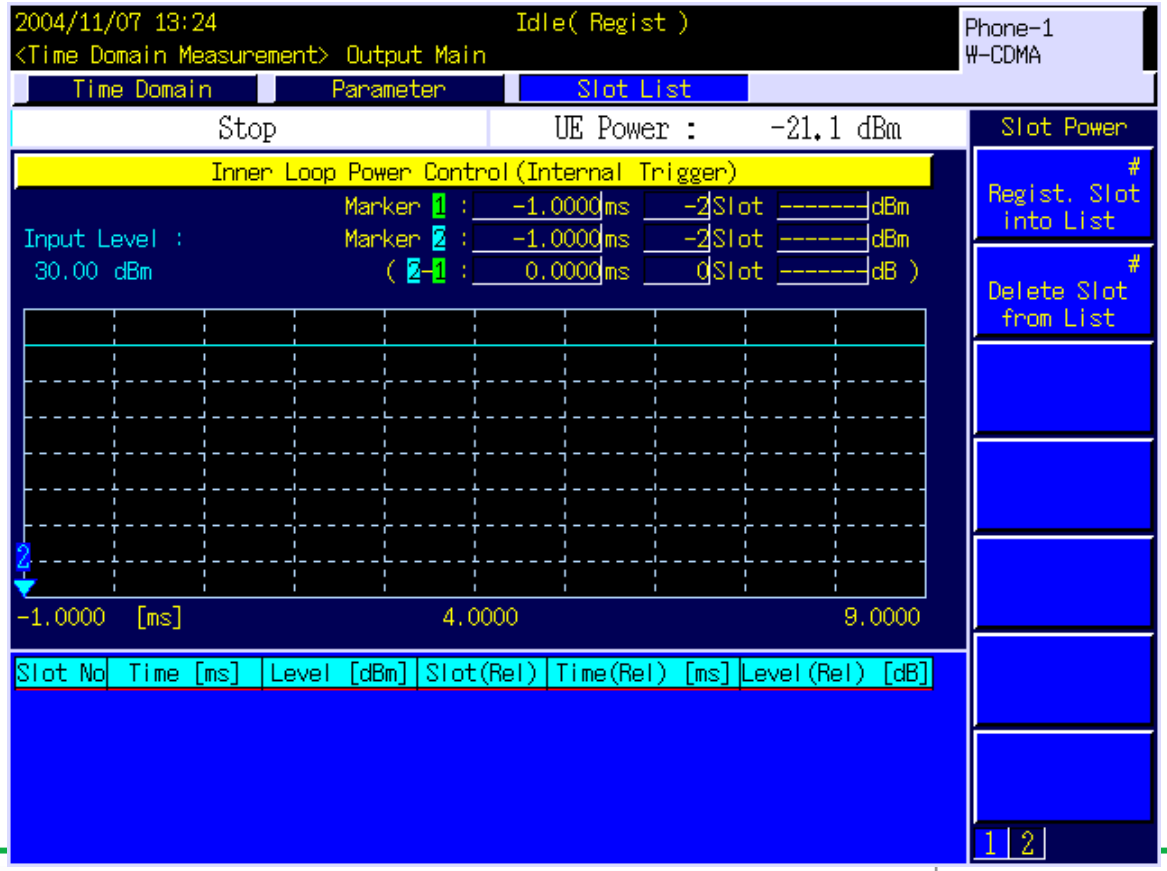
内环功率控制测试

display a slot list.



内环功率控制测试

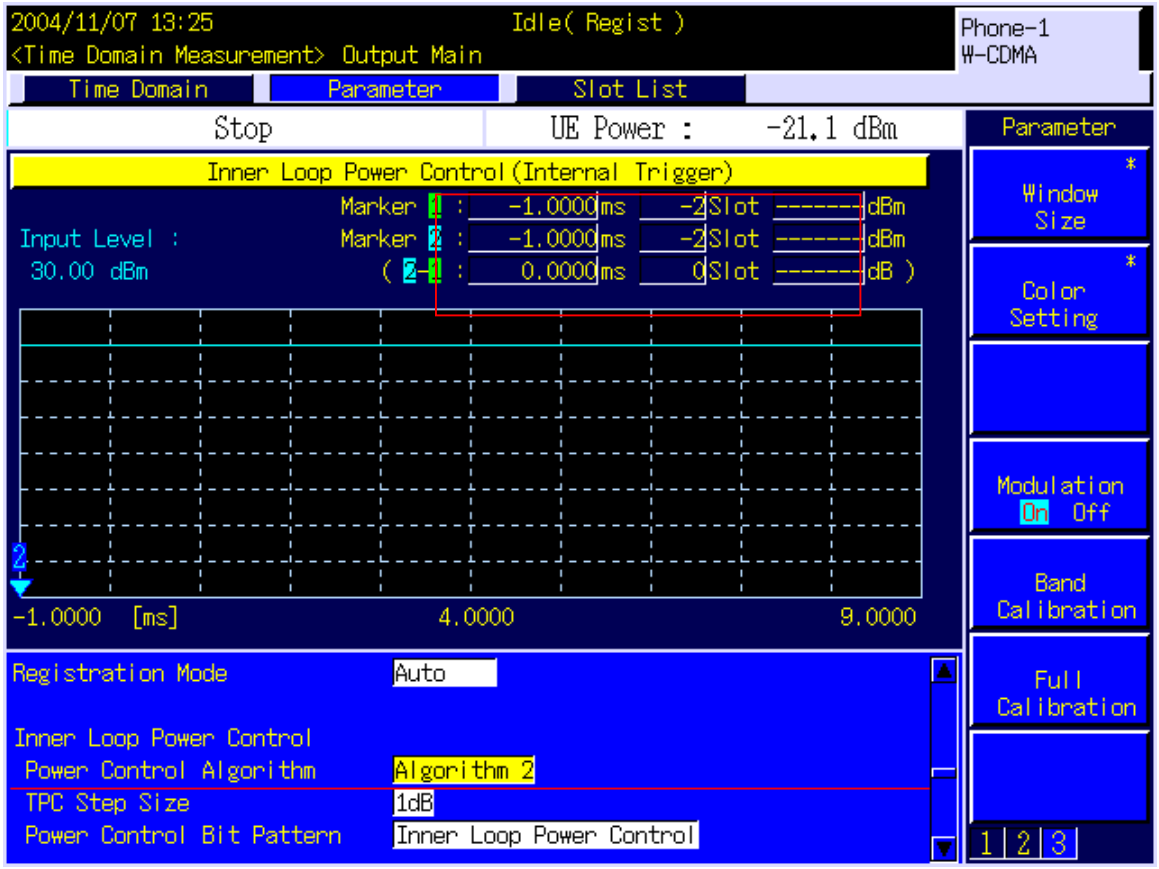
register Slot0~Slot59 for the slot list.



内环功率控制测试

set TPC Algorithm to 2.

set TPC Step Size to 1dB.



内环功率控制测试（stepA）

1. set TPC Test Step to A.
2. set TPC Algorithm to 2.
3. set TPC Step Size to 1dB.
4. set TPC Pattern to Inner Loop Power Control.

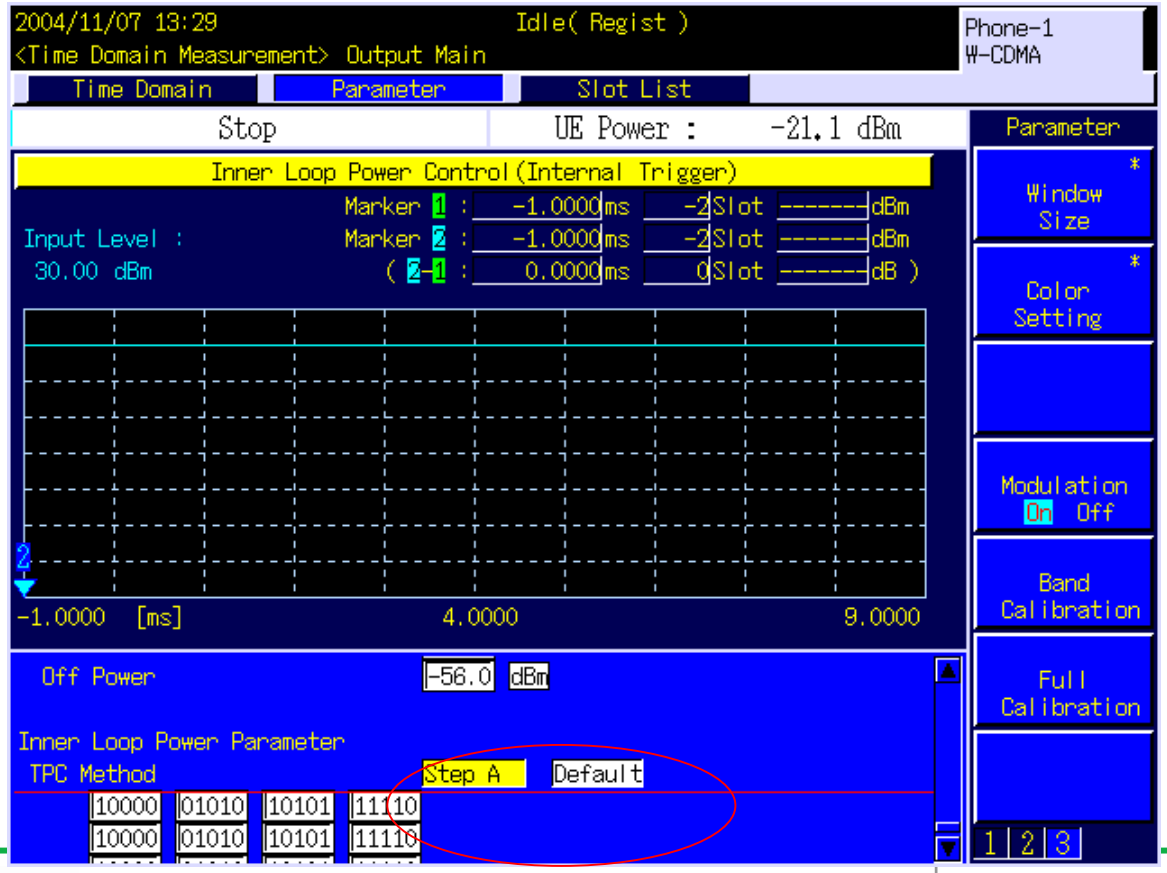
5-1 set Output Level to -65.7dBm.

5. set Input Level to -10.0dBm.
6. set TPC Pattern to Alternate.
7. set Input Level to 0.0dBm.
8. perform the measurement.
9. read the measurement result.

** In some cases, several dBs lower/higher value from Input Level is required for UE output power before starting Inner Loop Power Control measurement.

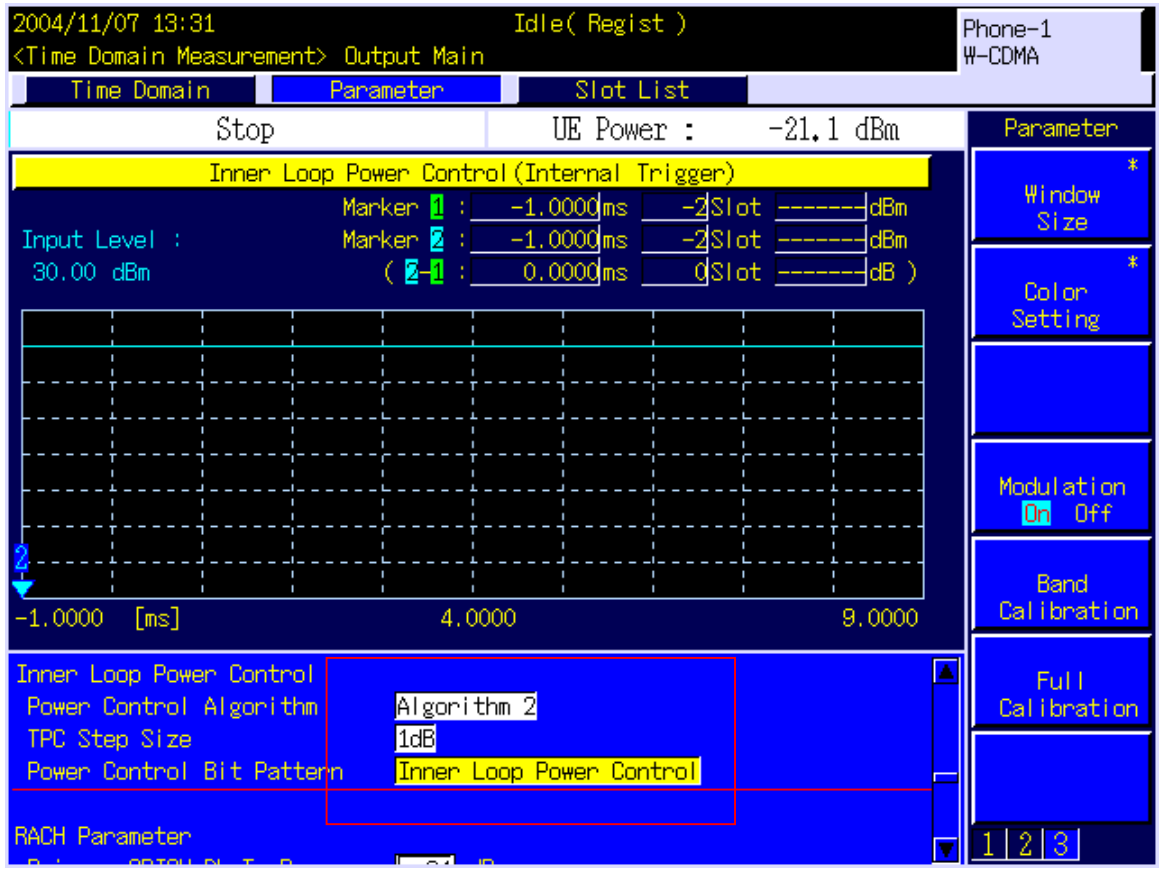
内环功率控制测试（stepA）

set TPC Test Step to A

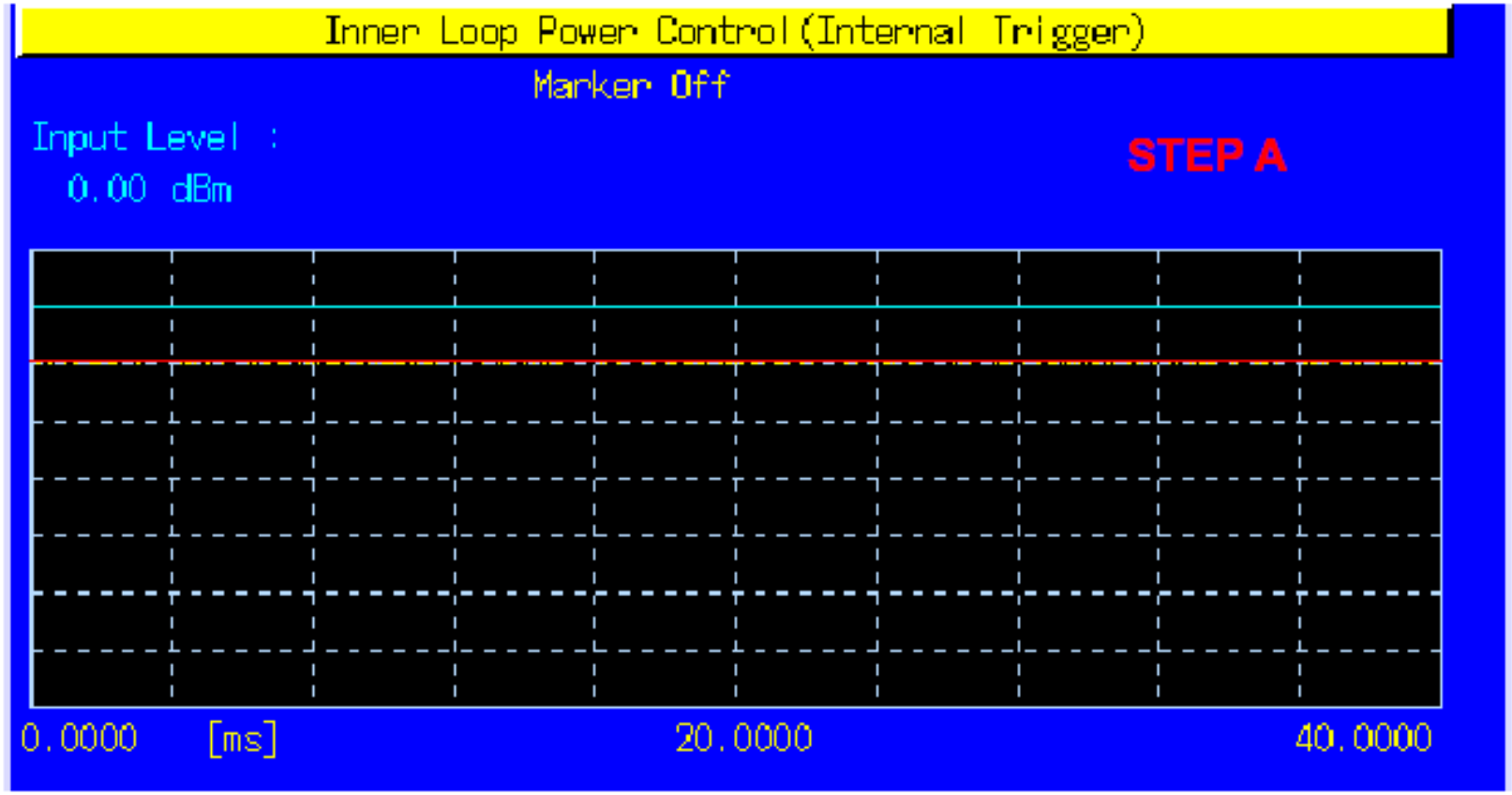


内环功率控制测试（stepA）

set TPC Pattern to Inner Loop Power Control.



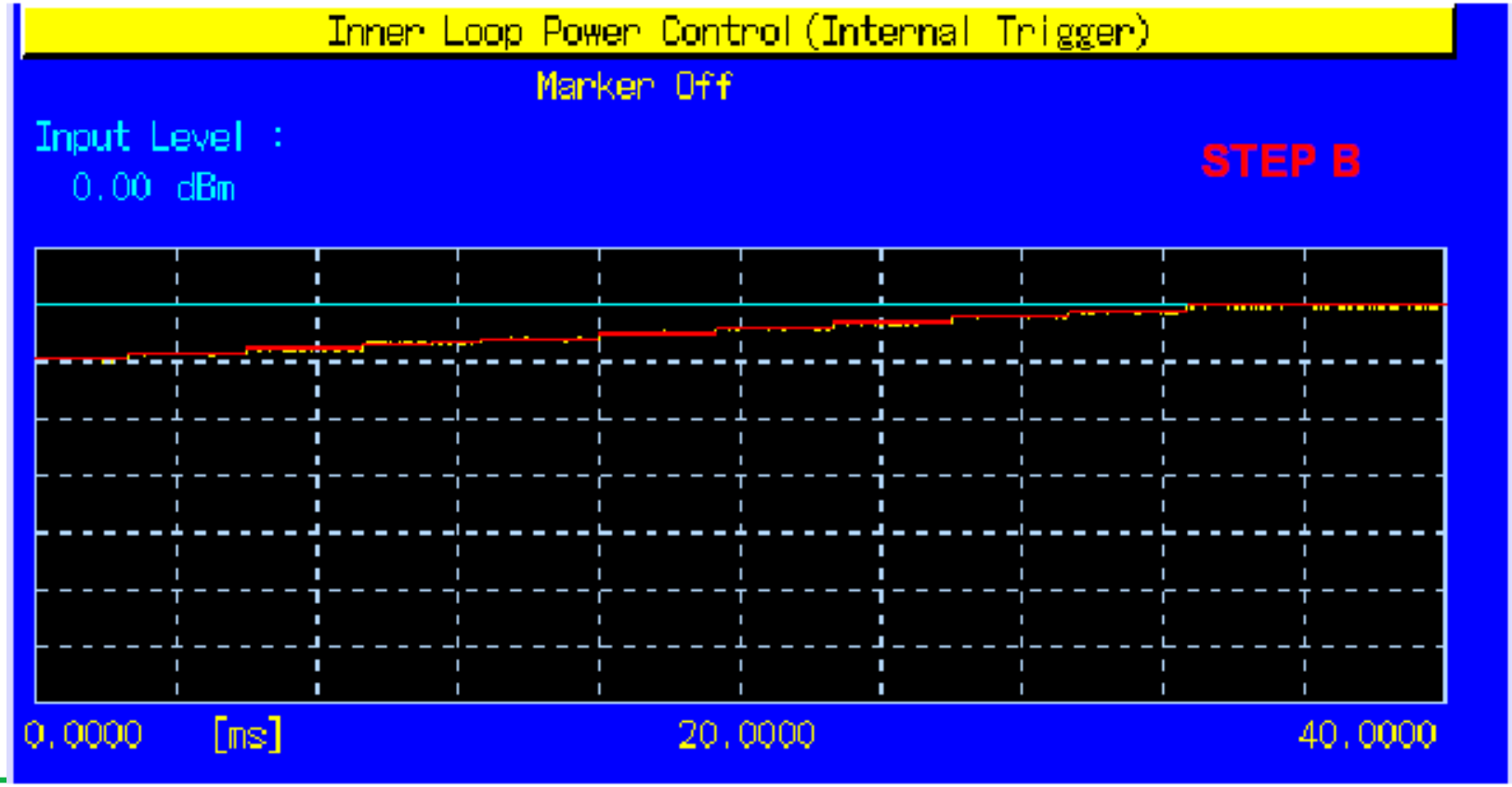
内环功率控制测试（stepA）



内环功率控制测试（stepB）

10. set TPC Test Step to B.
11. set TPC Algorithm to 2.
12. set TPC Step Size to 1dB.
13. set TPC Pattern to Alternate.
14. set Input Level to 0.0dBm.
15. perform the measurement.
16. read the measurement result.

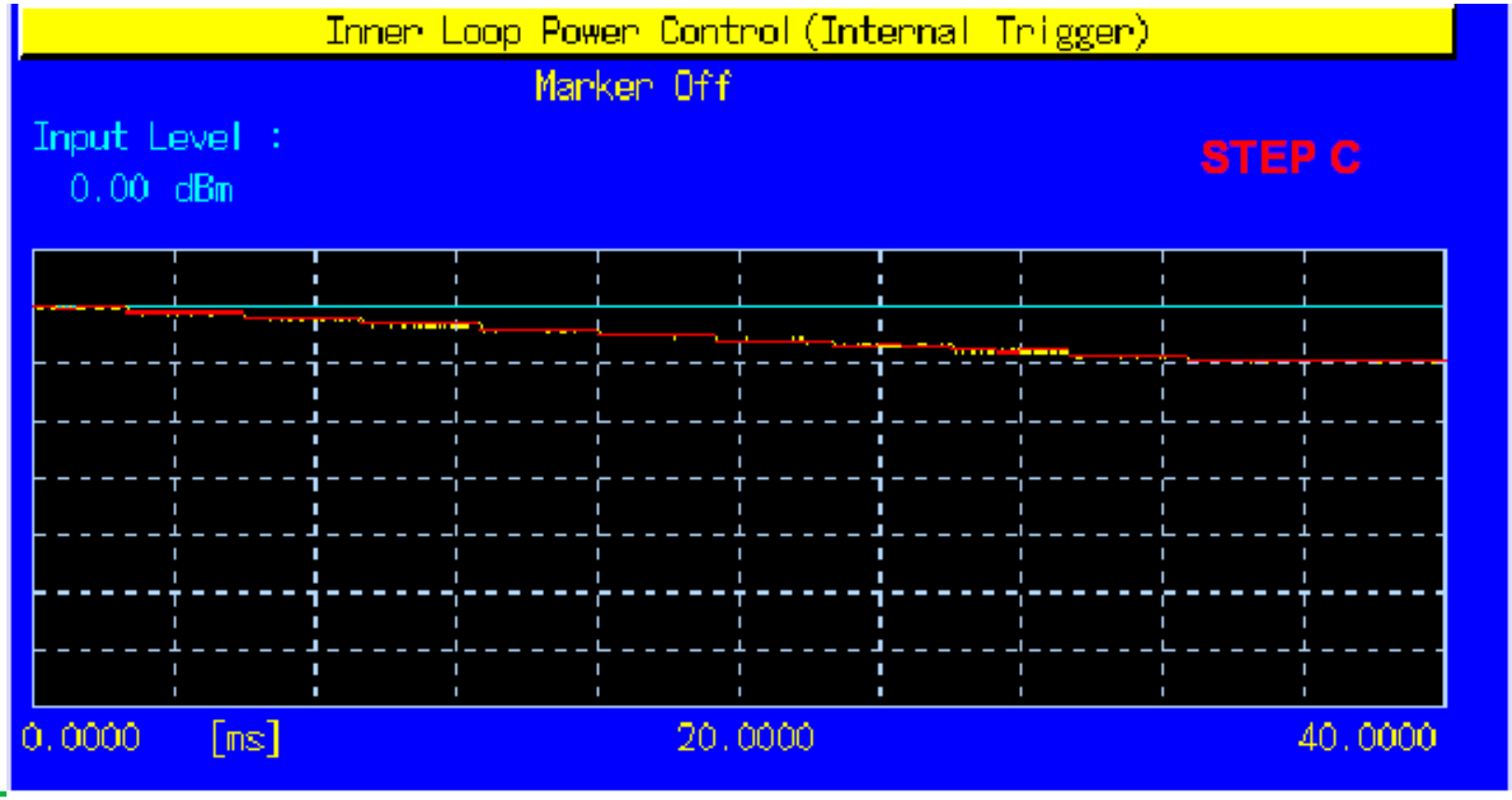
内环功率控制测试（stepB）



内环功率控制测试（stepC）

17. set TPC Test Step to C.
18. set TPC Algorithm to 2.
19. set TPC Step Size to 1dB.
20. set TPC Pattern to Alternate.
21. set Input Level to 0.0dBm.
22. perform the measurement.
23. read the measurement result.

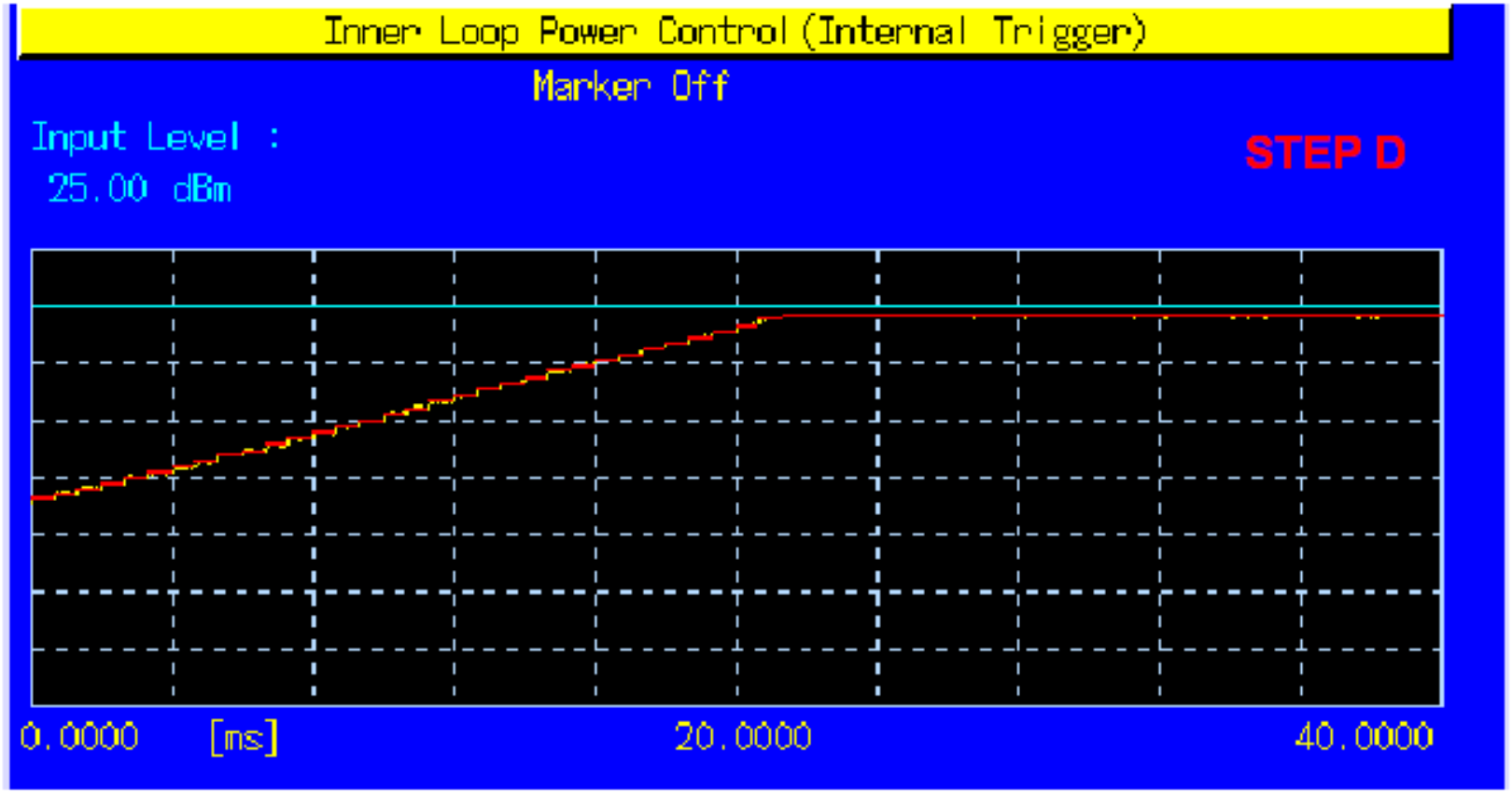
内环功率控制测试（stepC）



内环功率控制测试（stepD）

24. set TPC Test Step to D.
25. set TPC Algorithm to 1.
26. set TPC Step Size to 1dB.
27. set TPC Pattern to Alternate.
28. set Input Level to +25.0dBm.
29. perform the measurement.
30. read the measurement result.

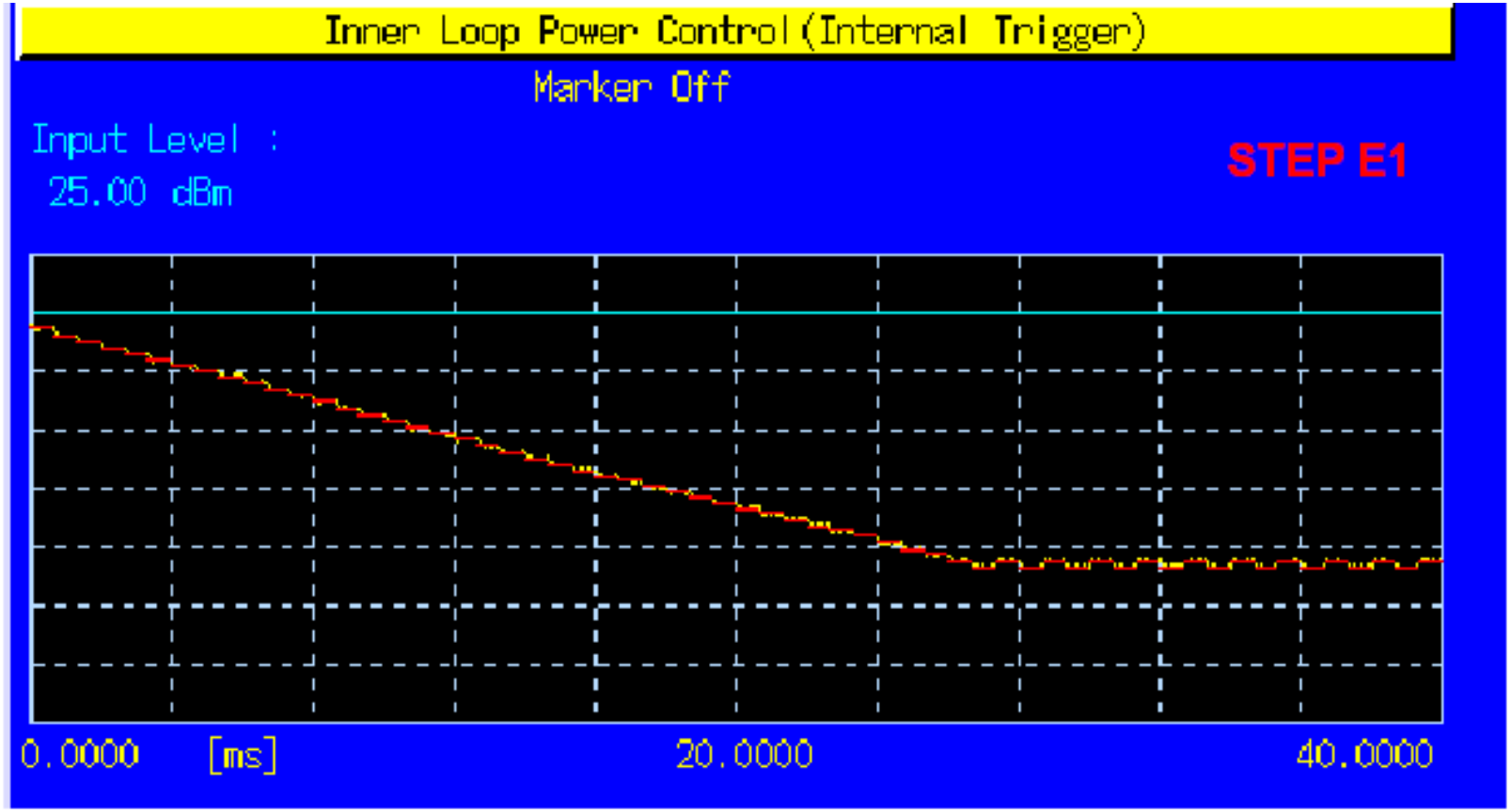
内环功率控制测试（stepD）



内环功率控制测试(stepE1)

31. set TPC Test Step to E.
32. set the number of slots in Test Step E to 40.
33. set TPC Algorithm to 1.
34. set TPC Step Size to 1dB.
35. set TPC Pattern to Alternate.
36. set Input Level to +25.0dBm.
37. perform the measurement.
38. read the measurement result.

内环功率控制测试(stepE1)

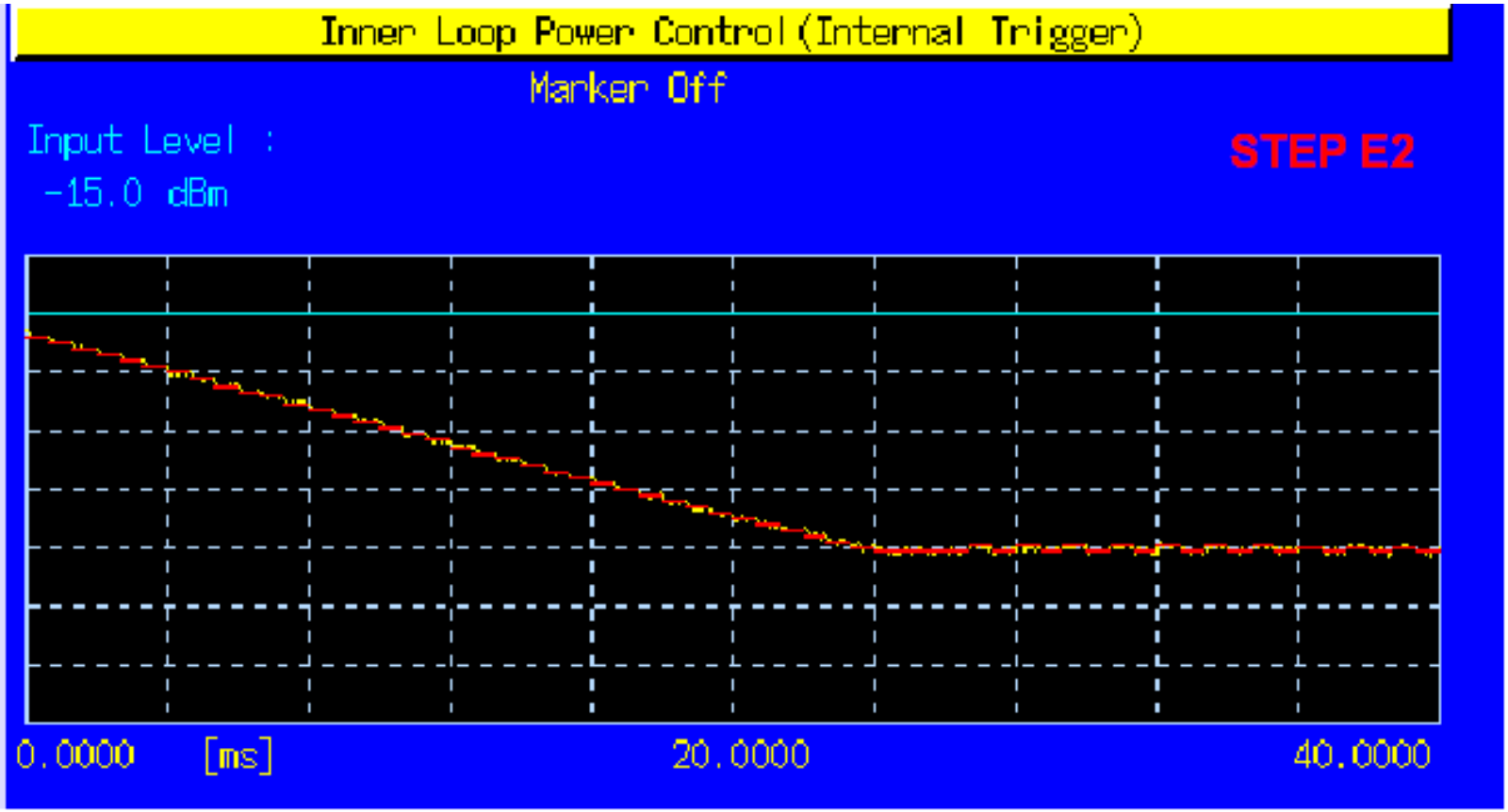


MT8820A‘s dynamic range (40dB)，segment the power control sequence into smaller subsequence

内环功率控制测试(stepE2)

39. set TPC Test Step to E.
40. set the number of slots in Test Step E to 40.
41. set TPC Algorithm to 1.
42. set TPC Step Size to 1dB.
43. set TPC Pattern to Alternate.
44. set Input Level to -15.0dBm.
45. perform the measurement.
46. read the measurement result.

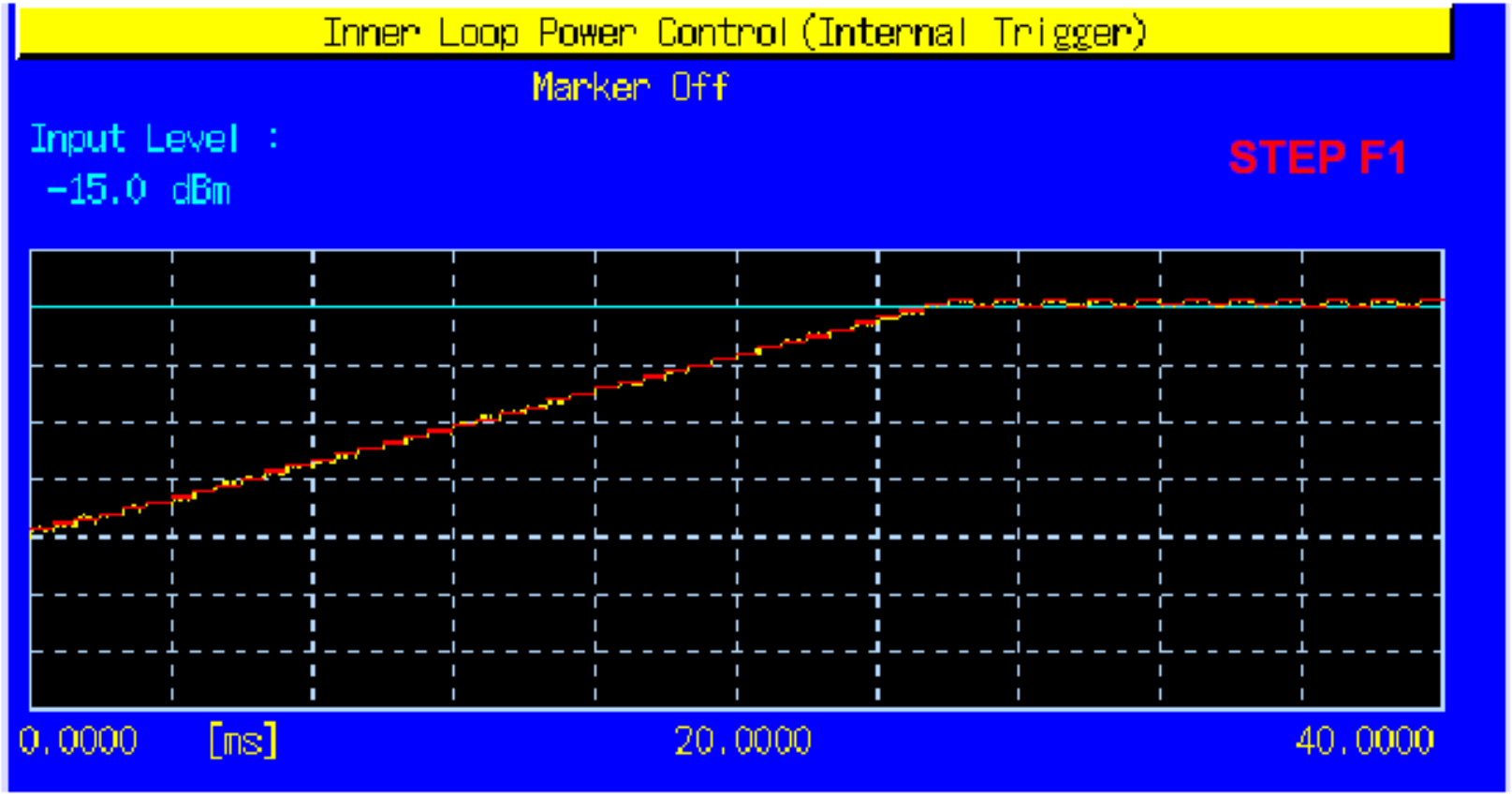
内环功率控制测试(stepE2)



内环功率控制测试(stepF1)

47. set TPC Test Step to F.
48. set the number of slots in Test Step F to 40.
49. set TPC Algorithm to 1.
50. set TPC Step Size to 1dB.
51. set TPC Pattern to Alternate.
52. set Input Level to -15.0dBm.
53. perform the measurement.
54. read the measurement result.

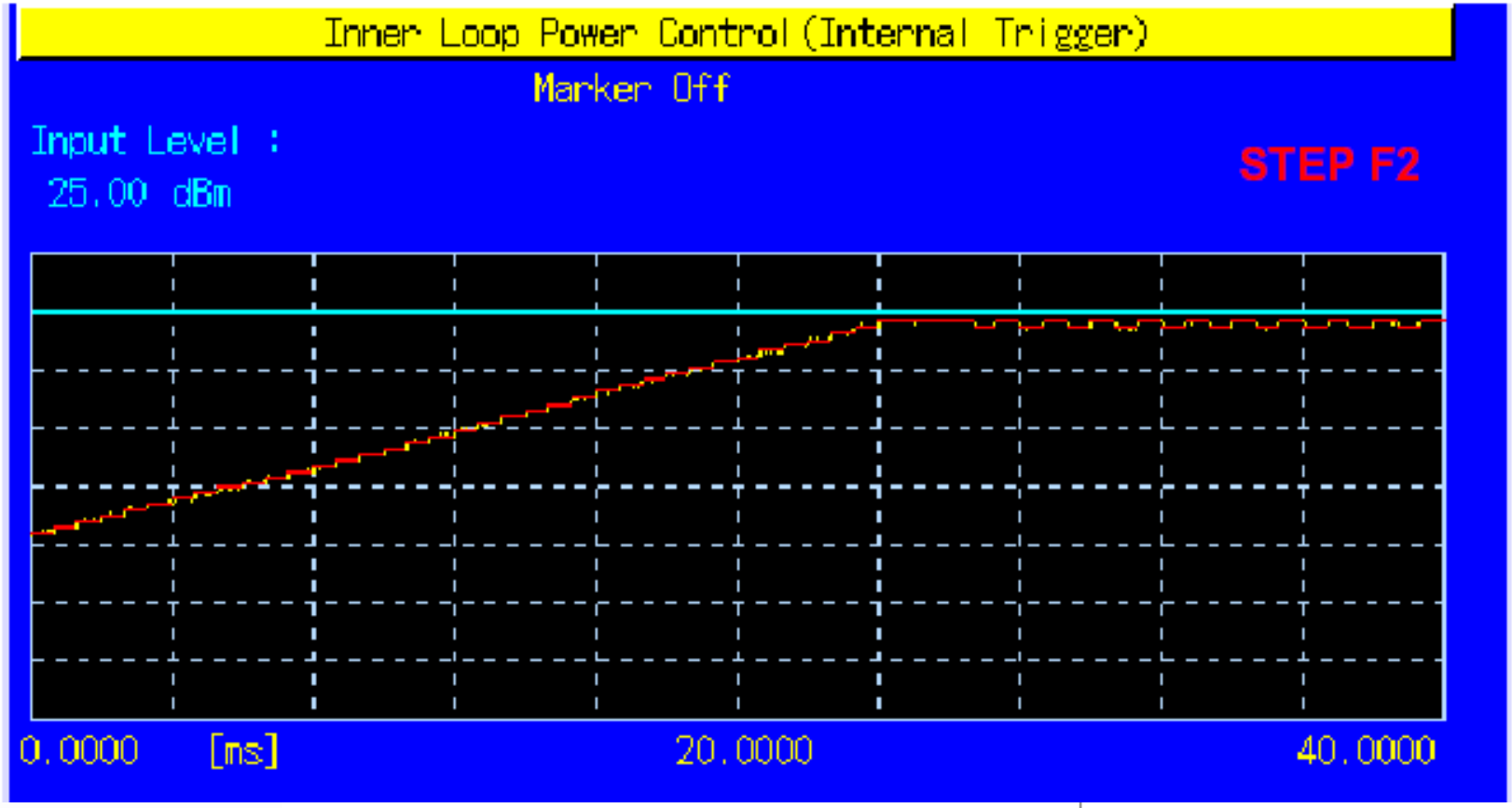
内环功率控制测试(stepF1)



内环功率控制测试(stepF2)

55. set TPC Test Step to F.
56. set the number of slots in Test Step F to 40.
57. set TPC Algorithm to 1.
58. set TPC Step Size to 1dB.
59. set TPC Pattern to Alternate.
60. set Input Level to +25.0dBm.
61. perform the measurement.
62. read the measurement result.

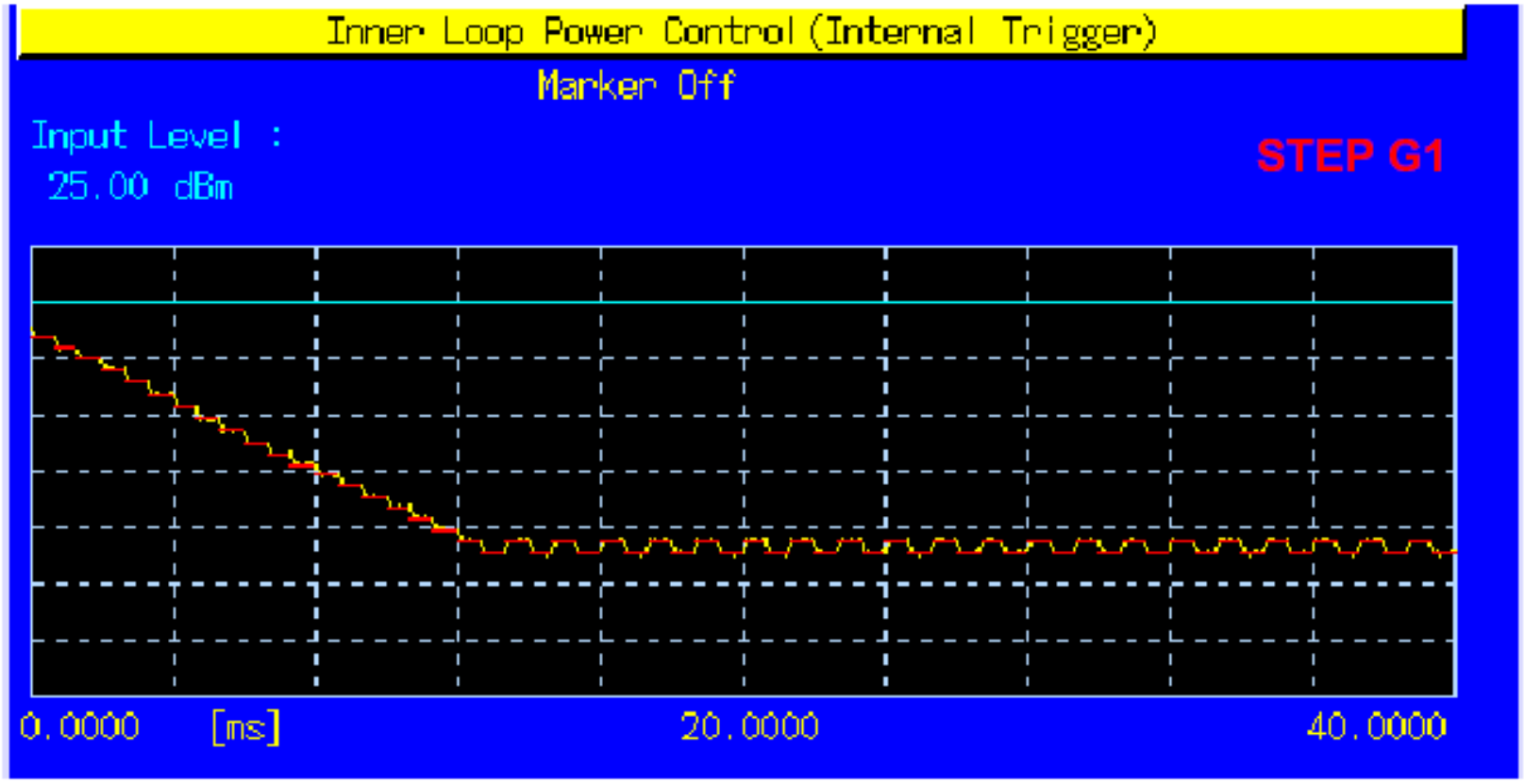
内环功率控制测试(stepF2)



内环功率控制测试(stepG1)

63. set TPC Test Step to G.
64. set the number of slots in Test Step G to 20.
65. set TPC Algorithm to 1.
66. set TPC Step Size to 2dB.
67. set TPC Pattern to Alternate.
68. set Input Level to +25.0dBm.
69. perform the measurement.
70. read the measurement result.

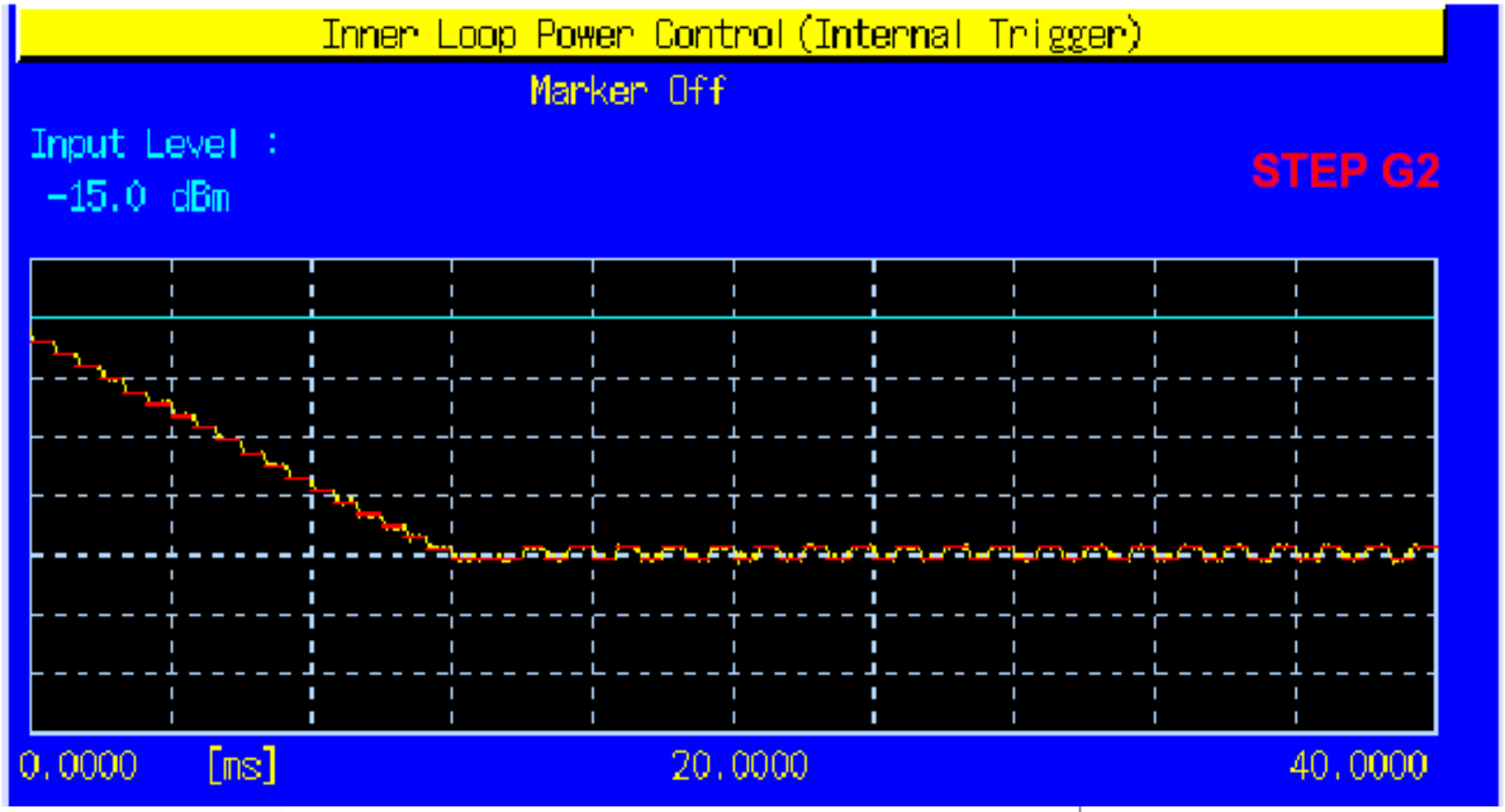
内环功率控制测试(stepG1)



内环功率控制测试(stepG2)

71. set TPC Test Step to G.
72. set the number of slots in Test Step G to 20.
73. set TPC Algorithm to 1.
74. set TPC Step Size to 2dB.
75. set TPC Pattern to Alternate.
76. set Input Level to -15.0dBm.
77. perform the measurement.
78. read the measurement result.

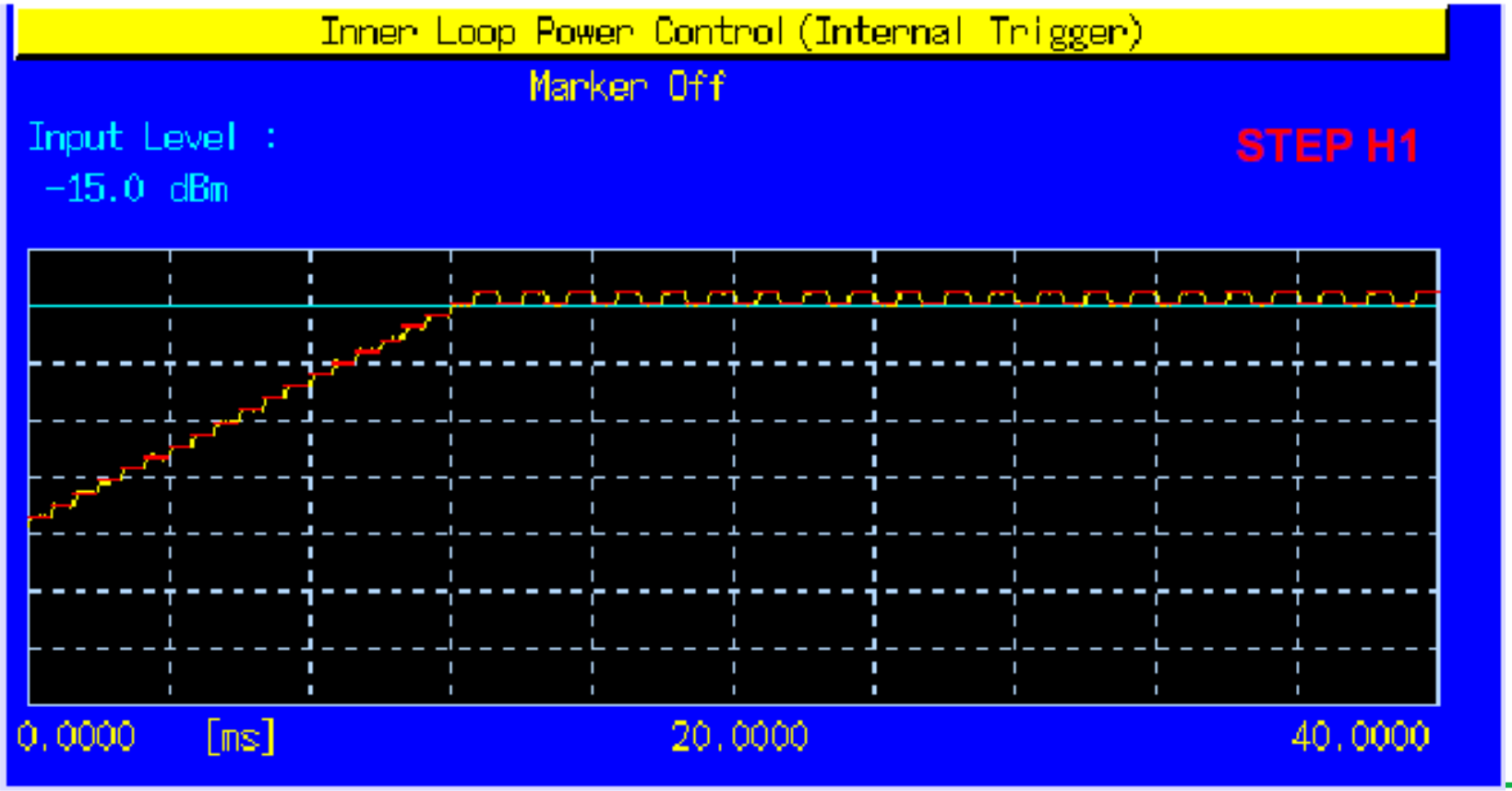
内环功率控制测试(stepG2)



内环功率控制测试(stepH1)

79. set TPC Test Step to H.
80. set the number of slots in Test Step H to 20.
81. set TPC Algorithm to 1.
82. set TPC Step Size to 2dB.
83. set TPC Pattern to Alternate.
84. set Input Level to -15.0dBm.
85. perform the measurement.
86. read the measurement result.

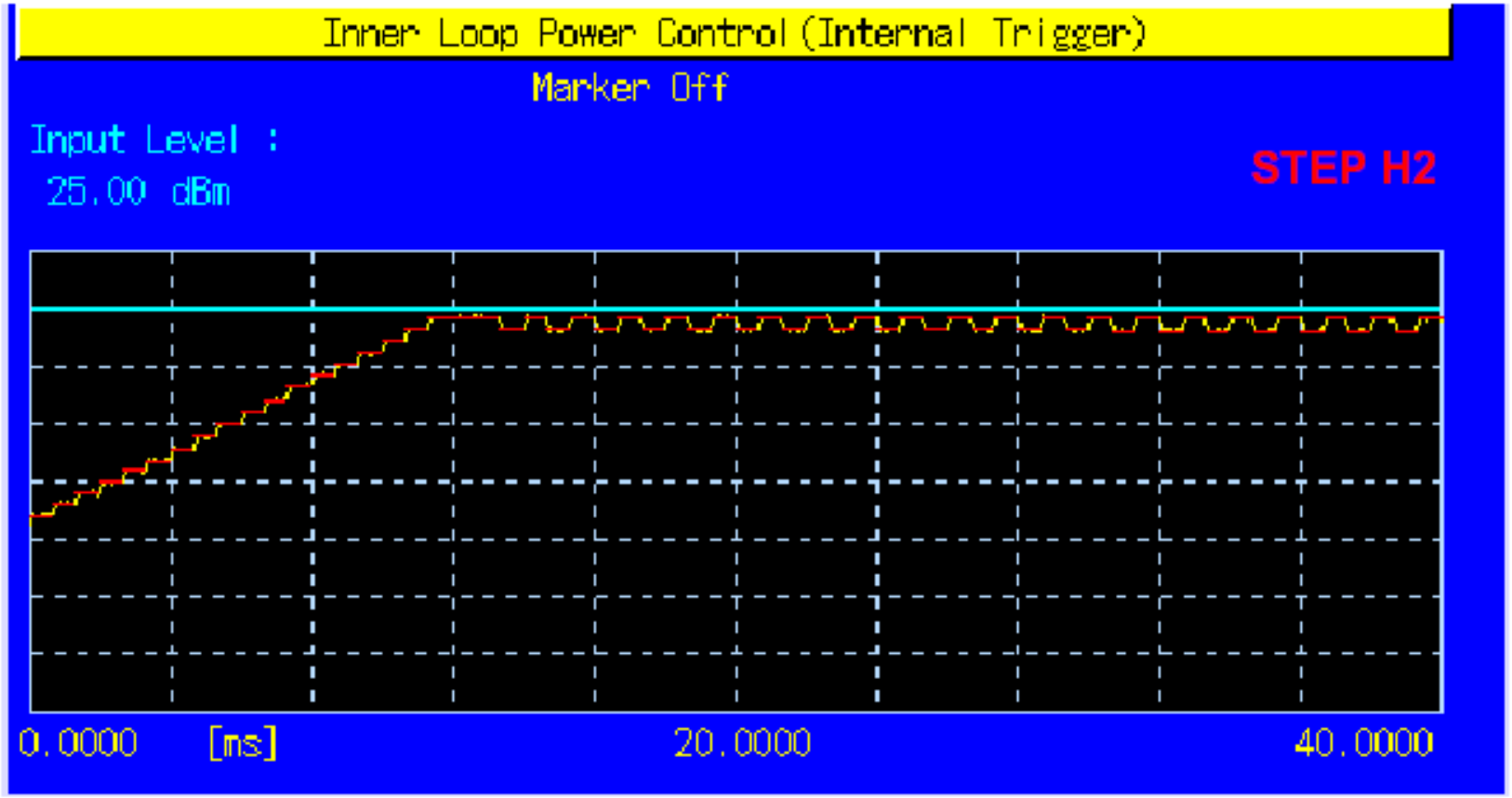
内环功率控制测试(stepH1)



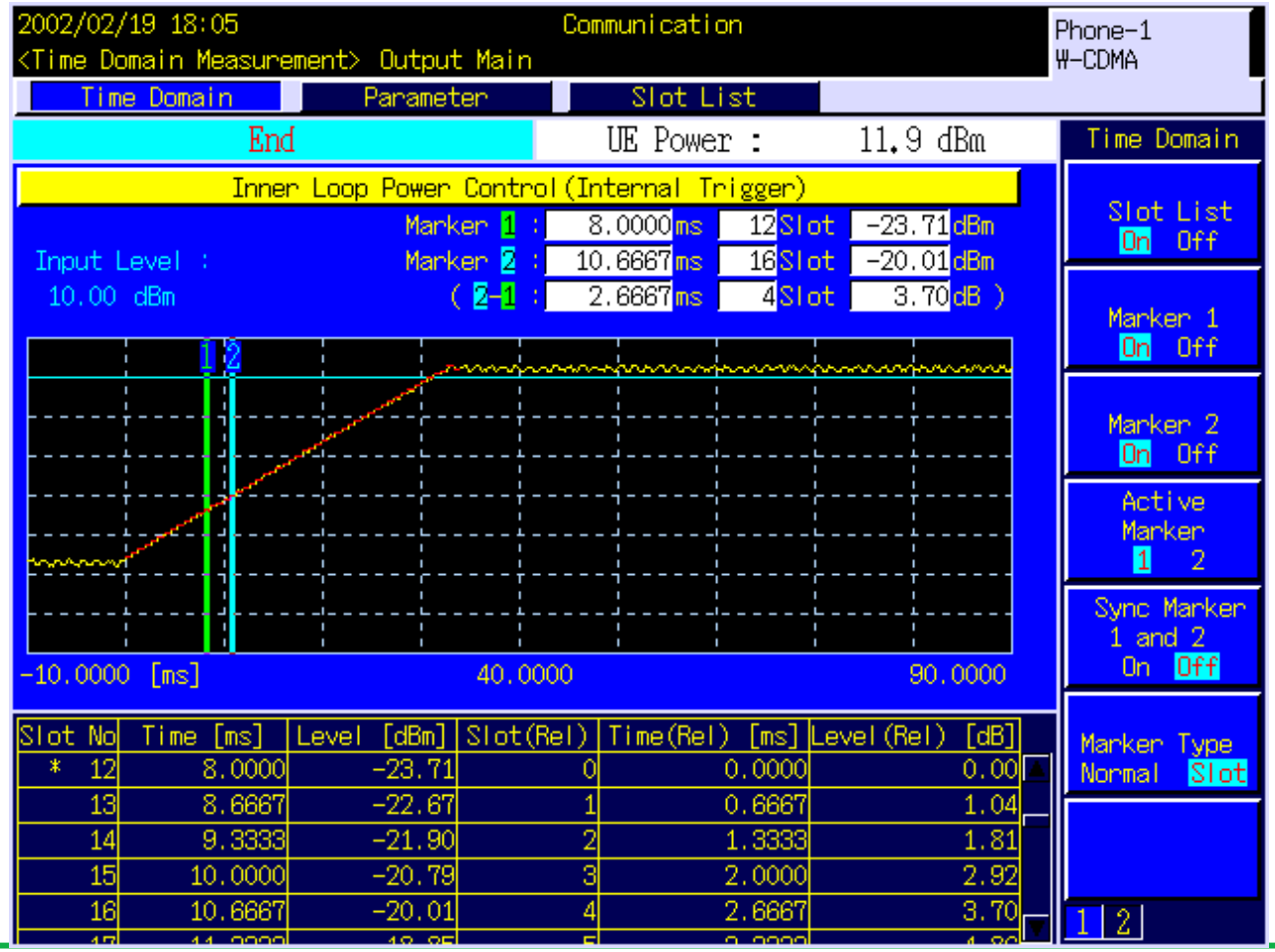
内环功率控制测试(stepH2)

87. set TPC Test Step to H.
88. set the number of slots in Test Step H to 75.
89. set TPC Algorithm to 1.
90. set TPC Step Size to 2dB.
91. set TPC Pattern to Alternate.
92. set Input Level to +25.0dBm.
93. perform the measurement.
94. read the measurement result.

内环功率控制测试(stepH2)



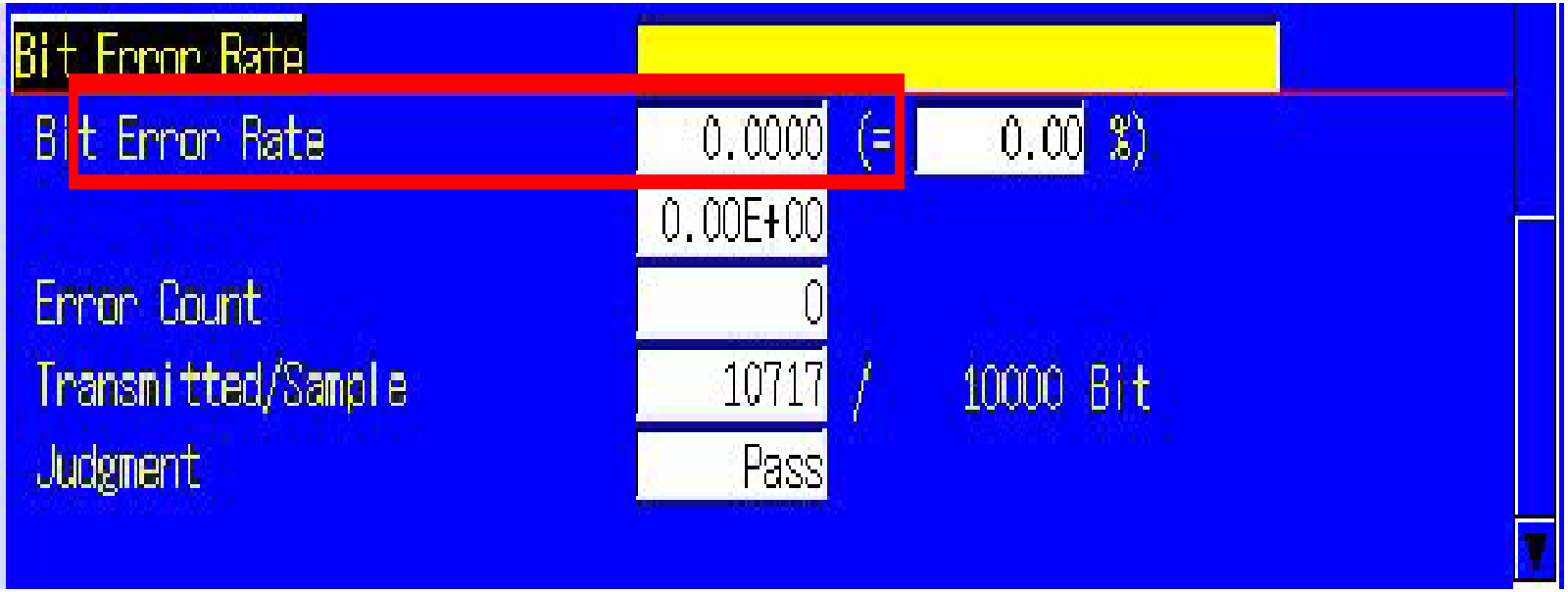
Slot list


2002/02/19 18:05
Communication
<Time Domain Measurement> Output Main
Phone-1
W-CDMA
Time Domain
Parameter
Slot List
End
UE Power : 11.9 dBm
Inner Loop Power Control(Internal Trigger)
Marker 1 : 8.0000 ms 12 Slot -23.71 dBm
Marker 2 : 10.6667 ms 16 Slot -20.01 dBm
(2-1 : 2.6667 ms 4 Slot 3.70 dB)
Input Level :
10.00 dBm
-10.0000 [ms]
40.0000
90.0000
Time Domain
Slot List On Off
Marker 1 On Off
Marker 2 On Off
Active Marker 1 2
Sync Marker 1 and 2 On Off
Marker Type Normal Slot
1 2
Slot No | Time [ms] | Level [dBm] | Slot(Rel) | Time(Rel) [ms] | Level(Rel) [dB]
* 12 | 8.0000 | -23.71 | 0 | 0.0000 | 0.00
13 | 8.6667 | -22.67 | 1 | 0.6667 | 1.04
14 | 9.3333 | -21.90 | 2 | 1.3333 | 1.81
15 | 10.0000 | -20.79 | 3 | 2.0000 | 2.92
16 | 10.6667 | -20.01 | 4 | 2.6667 | 3.70

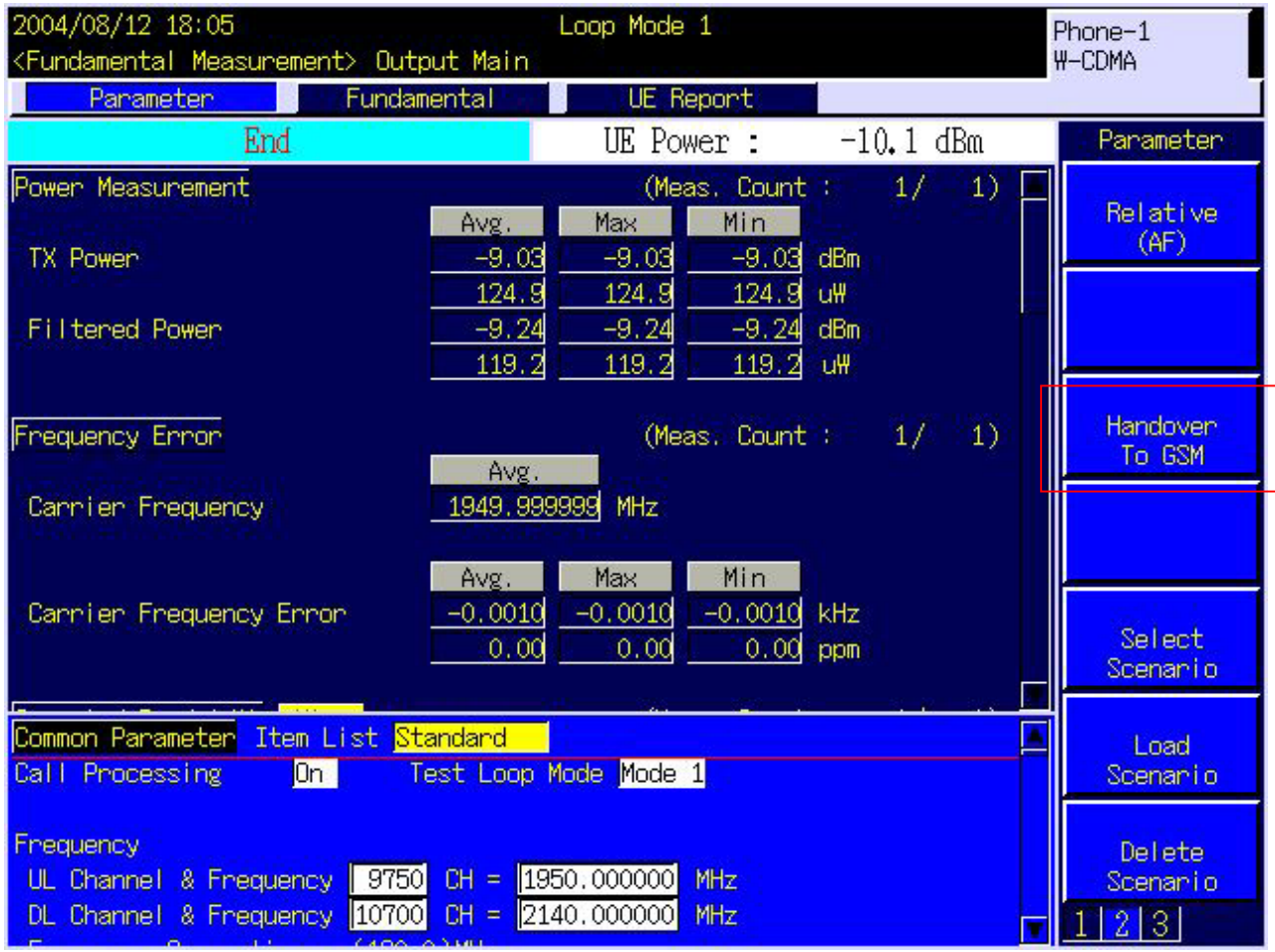
最大输入电平测试（RX）

1. set TPC Algorithm to 2.
2. set TPC Step Size to 1dB.
3. Connect to Test Loop Mode1.
4. set Output Level to -25.7dBm.
5. set DPCH_Ec/Ior to -19.0dB.
6. set Input Level to +20.0dBm.
7. set TPC Pattern to Inner Loop Power Control.
8. Set BER Measurement to On.
9. set the number of BER measurement samples to 10000 bits.
10. perform BER measurement.
11. read the result of BER measurement.

最大输入电平测试


Bit Error Rate
Bit Error Rate
0.0000
(=
0.00
%)
0.00E+00
Error Count
0
Transmitted/Sample
10717
/
10000 Bit
Judgment
Pass

从WCDMA切换到 GSM



安立销售工程师： 深圳 刘晓阳

0755-82874753

13823726460

liu.xiaoyang@cn.anritsu.com

安立技术支持工程师：深圳 付汉华

0755-82874750

13823738697

fu.hanhua@cn.anritsu.com

安立公司网址：www.anritsu.com

Thank You !