CMW500 手动测试

——TDsCDMA 信令操作篇

1. 复位 CMW500;

Press 'Mo	a a star about to perform reset. Select one action or cancel! Option scope ● Global (all Applications) ● Current Application
ROHDE & SCHW	Hint: Preset restores manual mode best settings Preset Cancel ARZ

2. 按键 "SIGNAL GEN", 选择 TDSCDMA Signaling1/2, 同时被显示在底下的任务.

	OFF OFF OFF OFF OFF OFF OFF OFF
	OFF OFF OFF OFF OFF OFF OFF
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	Off
	Off
Г	Off

3. 按键: 任务栏 TDSCDMA Signaling 下方对应的按键; 用 On/Off 按键打开小 区。选择频段和信道,以及下行功率等配置,如图:

TDSCDMA UE Signaling 1 - X3.2.2	0.3								
Connection Status			Cell Setup						
Cell 💓			Band:	A: 2010.8MHz~2024.2MHz	•				
			Frequency:	y: 2017.4000000 MHz					
Packet Switched A ON			Channel:	10087 Ch					
			PCCPCH Power -60.00 dBm						
Event Log			Scrambling Code	100					
09:21:27 Data end to end enabl	led Converie	<u>^</u>	SCCPCH -	0.0 dB					
09:21:27 Cell On, Standard Cell 09:21:26 Waiting for Data Appli	i scenario ication Unit		PS Domain 🔽						
09:21:26 TDSCDMA 3.2.20.3 Base 3.2.21.5			Connection Sector						
09:21:26 🚹 Cell Off									
09:21:24 n RRC Connection Released			UE term. Connect	Test Mode 🔻					
09:21:24 Call Released			Туре	RMC					
	1000		RMC						
UE Measurement Report 💌 P	v un		Data Rate [DL 12.2 kbps 🛛 UL 12.2 kbp	s T				
UTRA TDD (Current Cell)	Lower	Upper							
PCCPCH RSCP [dBm]	2000		Test Maria	Less Mede 4 DLC -					
Timeslat ISCP [dBm]			Test Wode						
innoorer lebring									
Log10(TCH BLER)	27555	3355							
Log10(TCH BLER) Transmitted UE Power (dBm)									
Log10(TCH BLER) Transmitted UE Power [dBm] Timing Advance (Chip)									

4. 手机上电,注册。

🚸 TDSCDMA UE Signaling 1 - X3.2.20.3								TDSCDMA
Connection Status			Cell Setup					
Cell ญ			Band:		A: 2010.8MH	lz~2024.2MHz	•	TDSCDMA 1 TX Meas
Circuit Switched	Registered		Frequency:		2017.400000) MHz		
Backet Switched	üttachod	-	Channel:		10087	' Ch		TDSCDMA 1
	Autoriou		PCCPCH Power		-60.00	dBrn		RX Meas
Event Log			Scrambling Code	9	100			
10:03:30 RRC Connection Released		^	DPCH	•	0.0	dB		Go to
10:03:30 Call Released			PS Domain					
10:03:29 CS Radiobearer Released			- o bollialli					
10:03:27 Release Call			Connection Se	tup				Routing
09:54:07 🛉 Reconfiguration Finished			UE term. Connec	t Te	est Mode	-		
09:54:07 🚹 Reconfiguration Started		-	Type		RMC			
00:63:11 A Deconfiguration Einichod			RMC	1				
UE Measurement Report 🛨 🗹 🚺	Dn		Data Rate	DL 12.2	kbps ▼ UL	12.2 kbps 🔻		
UTRA TDD (Current Cell)	Lower	Upper						
PCCPCH RSCP [dBm]			Test Mode	Loon Mc	de 1 RI C 🔻			
Timeslot ISCP [dBm]			Test Mode	Loop MC				
Log10(TCH BLER)								Signaling
Timing Advance (Chin)								Parameter
Pathloss (dB)								
								TDSCDMA Signaling <mark>Run</mark>
Unregister Connect Test Mode				Send SMS		Confi	g	

5. "Connect Test Mode", 连接终端;

🚸 TDSCDMA UE Signaling 1 - X3.2.20.3						X	TDSCDMA				
Connection Status			Cell Setup						TRACELLA		
Cell 💮		Band:		A: 2010.8MH	MHz 🔻		TDSCDMA 1 TX Meas				
Circuit Switched	Call Establish	ed	Frequency:		2017.4000000	MHz	-	-			
	Attached		Channel:		10087	Ch			TDSCDMA 1		
Packet Switched			PCCPCH Power		-60.00	dBm			RX Meas		
Event Log			Scrambling Code	е	100						
10:08:14 Call Established		^	DPCH	•	0.0	dB			Go to		
10:08:13 CS Radiobearer Establi	shed		PS Domain		V						
10:08:10 RRC Connection Establ	ished										
10:08:09 👸 RRC Connection Request			Connection Setup						Routing		
10:08:07 🕤 Establish RMC Test Mode Call		UE term. Connect Test Mode /									
10:03:30 RRC Connection Released			Туре		RMC			П			
			RMC					_			
UE Measurement Report 💌 🗠	On		Data Rate	DL 12.2	kbps 🔽 UL	12.2 kbp	is 🔽				
UTRA TDD (Current Cell)	Lower	Upper									
PCCPCH RSCP [dBm]			Test Made	Loop Mr							
Timeslot ISCP [dBm]			Test Wode	гоор ма	Dae 1 RLU				ļ		
Log10(TCH BLER)									Oleveline		
Transmitted UE Power (dBm)									Parameter		
Pathloss (dB)									l'ununotor		
									TDSCDMA Signaling Run		
Disconnect RMC				Send SMS	Handov	ver	Config				

6. 选择"TDSCDMA TX Meas", 进入测试界面;



7. 功率控制: Signaling Parameter -> TPC,选择功率控制; all 0 会使 DUT 达到最小功率, All 1 使 DUT 达到最大功率, close loop 可自定义功率。按键 "On/Off" 打开测试,如图:



8. 根据自己的需要,进行展开各个测试项目;



アンズ以降 TDSCDWA-OL Signaming	白时旧文介面		us	7
🚸 TDSCDMA UE Signaling 1 - X3.2.20.3				TDSCDMA
Connection Status Cell	Cell Setup Band: Erequence:	A: 2010.8MHz~2024.2MHz	•	TDSCDMA 1 TX Meas
Circuit Switched Call Established Packet Switched Attached	Channel: PCCPCH Power	10087 Ch -60.00 dBm		TDSCDMA 1 RX Meas
Event Log 10:08:14 Call Established 10:08:14 Test Loop Closed 10:08:13 CS Badinbearer Established	Scrambling Code DPCH S Domain	100 0.0 dB		Go to
10:08:10 RRC Connection Established 10:08:09 RRC Connection Request 10:08:07 Establish RMC Test Mode Call	Connection Setup UE term. Connect	est Mode		Routing
UE Measurement Report V On	Type RMC Data Rate DL 12.2	RMC kbps / UL 12.2 kbps /		
UTRA TDD (Current Cell) Lower Upper PCCPCH RSCP (dBm) Timeslot ISCP (dBm)	Test Mode Loop Mo	ode 1 RLC 🕜		
Log10(TCH BLER) Transmitted UE Power [dBm] Timing Advance (Chip) Pathloss (dB)				Signaling Parameter
				TDSCDMA Signaling Run
Disconnect RMC	Send	Handover Config	J	

9. 双按键"TDSCDMA -UE Signaling"回到信令界面,选择"RX Meas"

10. 进入 RX 界面后,可开始接收机测试,如图;

TDSCDMA UE RX Measurement 1 - X3.2.20.3	
O BER	
Connection Status Cell Circuit Switched Call Established Packet Switched Attached CMW Demod. Info	Cell SetupBand:A: 2010.8 MHz~2024.2 MHz ▼Frequency:2017.4000000 MHzChannel:10087 ChPCCPCH Power-60.00 dBmScrambling Code100DPCH0.0 dBPS Domain✓
	Connection Setup UE term. Connect Test Mode
Results	Type RMC 2
BER 0.30	1% RMC
BLER 0.00	0 % Data Rate DL 12.2 kbps VL 12.2 kbps A
DBLER	3 %
Lost Transp.Blocks	0 Test Mode Loop Mode 1 RLC
UL TFCI Faults NCAI	P
FDR NCAI	P
PN Discontinuity	4
Transport Blocks 49 /	100