

Bölüm	Fonksiyon	Outline	GUI Opsiyonu										Scripting Opsiyonu <sup>*2</sup>		
			MX847570A MX847570B	MX847570A-080 MX847570B-080	MX847570A-081 MX847570B-081	MX847570A-083 MX847570B-083	MX847570A-084 MX847570B-084	MX847570A-085 MX847570B-085	MX847570A-060 MX847570B-060	MX847570A-061 MX847570B-061					
Genel	SIP REGIST Test	Function for verifying CSCF server Bind/Unbind operation	√	—	—	—	—	—	—	—	—	—	—	—	—
	IPsec	Function for on/off of IPsec (3DES, AES).	√	—	—	—	—	—	—	—	—	—	—	—	—
	DNS Server	Function for resolving address using DNS	√	—	—	—	—	—	—	—	—	—	—	—	—
	NTP Server	Function for synchronizing time using NTP	√	—	—	—	—	—	—	—	—	—	—	—	—
	PSAP Server	Function for looping-back voice for IMS Emergency	√	—	—	—	—	—	—	—	—	—	—	—	—
	X-CAP Server	Function for verifying service using XML file	√	—	—	—	—	—	—	—	—	—	—	—	—
	BSF Server	Function for verifying GBA	—	—	—	—	—	—	—	—	—	—	—	—	—
	No Server (Network)	Function for verifying operation when no response due to error at server or	—	√	—	—	—	—	—	—	—	—	—	—	—
	Server Error Test	Function for verifying operation when error response received from server due to the error at	—	√	—	—	—	—	—	—	—	—	—	—	—
Multi P-CSCF	Function for reporting up to three P-CSCF servers to UE	—	√	—	—	—	—	—	—	—	—	—	—	—	
VoLTE/ Video Telefonu	Calling Sequence Test	Function for verifying call sequence from UE	√	—	—	—	—	—	—	—	—	—	—	—	—
	Incoming Call Sequence Test	Function for verifying call sequence to UE	—	√ <sup>*1</sup>	—	—	—	—	—	—	—	—	—	—	—
	Voice Loopback Test	Function for looping-back and sending uplink voice data to verify call at UE side	√	—	—	—	—	—	—	—	—	—	—	—	—
	Early media Test	Function for verifying early media sequence and Ring Back Tone	—	—	—	—	—	—	—	—	—	—	—	—	—
	Disconnection (from UE)	Function for verifying disconnection sequence from UE	√	—	—	—	—	—	—	—	—	—	—	—	—
	Disconnection (from NW)	Function for verifying disconnection sequence from network	—	√ <sup>*1</sup>	—	—	—	—	—	—	—	—	—	—	—
	Called Party Busy Test	Function for verifying operation when called party busy	—	√	—	—	—	—	—	—	—	—	—	—	—
	Called Party Not Found Test	Function for verifying operation when called party not found	—	√	—	—	—	—	—	—	—	—	—	—	—
	Called Party No Reponse	Function for verifying operation when no response from called party	—	√	—	—	—	—	—	—	—	—	—	—	—
	Codec Selection	Function for confirming VoLTE/VT traffic with any codec; also performs loopback	—	√	—	—	—	—	—	—	—	—	—	—	—
	VoLTE/Video Telephony Upgrade/Downgrade	Switches VoLTE/Video Telephony during call	—	√	—	—	—	—	—	—	—	—	—	—	—
	Call ID Display/Block	TS 24.607 verifies IMS test UE caller ID display ON/OFF	—	—	—	√	—	—	—	—	—	—	—	—	—
	Incoming Call ID	TS 24.608 verifies IMS test UE incoming caller ID display ON/OFF	—	—	—	√	—	—	—	—	—	—	—	—	—
	Call Forwarding, Holding, Catchphone	Function for simulating TS 24.604, TS 24.610, TS 24.615 call forwarding, call holding, and catchphone functions	—	—	—	√	—	—	—	—	—	—	—	—	—
VoLTE Conference	Function for verifying TS 24.605 VoLTE Conference related tests (Event message, HOLD,	—	—	—	√	—	—	—	—	—	—	—	—	—	
Message Waiting Indication	Function for notifying users of voice mail services about arriving voice mail	—	—	—	√	—	—	—	—	—	—	—	—	—	
RCS	Configuration	Function for creating and updating UE configuration data using XML file	—	—	—	—	√	—	—	—	—	—	—	—	—
	Presence	Function for referring UE configuration data using XML file	—	—	—	—	√	—	—	—	—	—	—	—	—
	Instant Messaging	Function for sending and receiving Instant Message using XML file	—	—	—	—	√	—	—	—	—	—	—	—	—
	RCS Address Book	Function for registering and saving UE contacts using RCS	—	—	—	—	√	—	—	—	—	—	—	—	—
	1 to 1 Chat (CPM)	Function for 1 to 1 chat by connecting with CPM mode	—	—	—	—	√	—	—	—	—	—	—	—	—
	Group Chat	Function for multi party chat (Maximum 5 users)	—	—	—	—	√	—	—	—	—	—	—	—	—
	File Transfer	Function for sending and receiving same files between users	—	—	—	—	√	—	—	—	—	—	—	—	—
Contents Sharing	Function for sharing same files between users	—	—	—	—	√	—	—	—	—	—	—	—	—	
IMS üzerinden SMS	SMS Message Send Test	Function for verifying UE SMS message sending	√	—	—	—	—	—	—	—	—	—	—	—	—
	SMS Message Receive Test	Function for verifying UE SMS message receiving	√	—	—	—	—	—	—	—	—	—	—	—	—
IPv6 Adresleme	IP Address Allocation Test	Function for verifying IP address setting at RA receiving	√	—	—	—	—	—	—	—	—	—	—	—	—
	IP Address Allocation Test	Function for verifying IP address setting allocated from DHCPv6 server	√	—	—	—	—	—	—	—	—	—	—	—	—
VoLTE Acil Çağrılar	VoLTE Emergency Call (Voice)	Function for verifying IP VoLTE Emergency Call	—	√	—	—	—	—	—	—	—	—	—	—	

\*1: Bu opsiyon , ayrı bir network tarafı UE hazırlandığında gereksizdir.

\*2: Kullanıcı test mesaj script'i yaratmalıdır.

# Sinyal Test Cihazı MD8475B Akıllı Stüdyo Test Fonksiyonları -SmartStudio Test Functions

Fonksiyon	Açıklama	MD8475B				
		LTE	W-CDMA	GSM	CDMA2000	TD-SCDMA
<b>Genel</b>						
Position Registration*1	Connects UE and creates test environment	√	√	√	√	--*2
L1/L2 Counter	Counts values for each L1/L2 channel every second	√	√	—	—	--*2
Throughput Counter	Simultaneously displays PHY layer and IP Throughput (SDU)	√	√	√	—	--*2
Trace	Displays events for each layer as arrows	√	√	√	√	--*2
Reject	Returns arbitrary reject message when UE connected	√	√	√	—	--*2
Neighbor Cell Setting	Reports information to UE about BTS adjacent to BTS under test	√	√	√	√	--*2
<b>RF Related</b>						
TRx Power Setting	Changes TRx power of BTS during Idle Communication	√	√	√	√	--*2
No Network Setting	Sets BTS Power output to OFF and switches UE to no network status	√	√	√	√	--*2
RF Monitor	Displays frequency, frequency error, and power for each channel such as PDSCH, PUSCH, etc.	√	√	√	—	--*2
TPC Setting	Changes TPC (Transmit Power Control) arbitrarily	√	√	√	—	--*2
AWGN	Sends AWGN in conjunction with normal signal	√	√	—	—	—
RF Measurement Options	Measures UE RF power at each second	--*3	--*3	--*3	—	—
<b>External Control</b>						
Ethernet	Controls SmartStudio operation (parameter selection, start, etc.) from external PC	√	√	√	√	--*2
GPB	Controls SmartStudio setting parameters from external PC	√	√	√	√	--*2
<b>Ses / Video İletişim</b>						
<b>LTE FDD/TDD</b>						
VoLTE/Video Telephony Calling/Answering (Loopback)	Executes call test for UE supporting Voice over LTE/Video over LTE	√				
Emergency Call/Originating System	Sets emergency call, and VoLTE/Video call control at LTE	√				
Codec Change	Changes audio and video codecs arbitrarily and executes UE switchover test	√				
<b>LTE FDD/TDD, W-CDMA, GSM, CDMA2000, TD-SCDMA</b>						
CSFB/eCSFB*4	Auto-switches communication method when other system voice call received during LTE call	√	√	√	√	--*2
SRVCC*4	Performs seamless switch to CS voice call during VoLTE call	√	√	√	—	—
<b>W-CDMA, GSM, CDMA2000, TD-SCDMA</b>						
Voice Call/Answer/On-hook (Loopback/Echoback)	Performs loopback call test*3		√	√	√	--*2
Voice Call/Answer/On-hook (Handset)	Performs call test using headset		√	√	—	--*2
Emergency Call/Originating	Performs emergency call test with and without Test SIM*4		√	√	√	--*2
Caller ID Setting	Sets Caller ID notification/non-notification/notification disabled/public phone/international call answer		√	√	√	--*2
Call Blocking (Release99) <Barred>	Sets call conditions for Release99 for W-CDMA, GSM, TD-SCDMA and bars all calls		√	√		--*2
Call Blocking (Release99) <Emergency>	Sets call conditions for Release99 for W-CDMA, GSM, TD-SCDMA and bars all calls except emergency calls		√	√		--*2
Call Blocking (PSIST/ACCT)	Bars calls for CDMA2000				√	
<b>W-CDMA, TD-SCDMA</b>						
Videophone Call/Answer/On-hook (Loopback)	Performs loopback call test*3		√			--*2
<b>Paket Veri İletişimi</b>						
IPv4 Packet Test	Performs data TRx using IPv4	√	√	√	√	--*2
IPv6 Packet Test	Performs data TRx using IPv6	√	√	√	√	--*2
Packet Preservation/Dormant Test	Releases RRC Connection while preserving PDP Context	√	√	—	√	--*2
Multiple PDP Context/PDN Connect	Connects multiple PDN and performs multisession packet data test	√	√	—	√	—
State Change	Changes state from BTS during packet data communications	√	√	—	√	--*2
IP Data Traffic Functions	Uses built-in packet generator to implement simple measurement system with automated high-reproducibility data throughput test	√	√	√	√	--*2
<b>LTE FDD/TDD</b>						
SISO/MIMO Packet Calling/Answering	Connects server and performs application test using packet data communications	√				
SISO/MIMO Packet UE Side Disconnect		√				
SISO/MIMO Packet Network Side Disconnect		√				
DL2CC Carrier Aggregation	Performs DL2CC carrier application tests	√				
DL3CC Carrier Aggregation	Performs DL3CC carrier application tests	√				
DL4CC Carrier Aggregation	Performs DL4CC carrier application tests	√				
UL2CC Carrier Aggregation	Performs UL2CC carrier application tests	√*7				
FDD/TDD Joint Operation	Performs FDD and TDD Joint Operation test	--*8				
<b>W-CDMA</b>						
W-CDMA/HSPA/HSPA Evolution Packet Calling/Answering	Connects server and performs application test using packet data communications		√			
W-CDMA/HSPA/HSPA Evolution Packet UE Side Disconnect		√				
W-CDMA/HSPA/HSPA Evolution Packet Network Side Disconnect		√				
PPP Packet Calling	Performs DL2CC carrier application tests		√			
PPP Packet UE Side Disconnect	Performs DL3CC carrier application tests		√			
PPP Packet Network Side Disconnect	Performs UL2CC carrier application tests		√			
<b>GSM</b>						
GPRS/EGPRS Packet Calling/Answering	Connects server and performs application test using packet data communications			√		
GPRS/EGPRS Packet UE Side Disconnect		√				
GPRS/EGPRS Packet Network Side Disconnect		√				
<b>CDMA2000</b>						
CDMA2000/EV-DO Packet Calling	Connects server and performs application test using packet data communications				√	
SV-DO Test	Performs simultaneous voice and packet communications				√	
<b>TD-SCDMA</b>						
TD-SCDMA/HSPA*10 Packet Calling/Answering	Connects server and performs application test using packet data communications					--*2
TD-SCDMA/HSPA*10 Packet UE Side Disconnect		√				--*2
TD-SCDMA/HSPA*10 Packet Network Side Disconnect		√				--*2
<b>Mesajlaşma</b>						
ETWS Message Sending	Performs ETWS message send test during Idle or Communication state	√	√	—	—	—
CMAS Message Sending	Performs CMAS message send test during Idle or Communication state	√	√	—	√	—
CBS Message Sending	Performs CBS message send test during Idle or Communication state	—	√	√	—	—
SMS Message Sending/Receiving	Performs SMS (7 bit-ASCII, Unicode, Binary) test using PS and CS networks*5	√	√	√	√	--*2
SMS over IMS Test	Performs SMS send/receive test via IMS server	√	—	—	—	—
SMS Message Continuous Sending	Sends selected multiple SMS to UE continuously	√	√	√	√	--*2
MMS Sending/Receiving*9	Performs MMS send/receive test	√	√	√	√	--*2