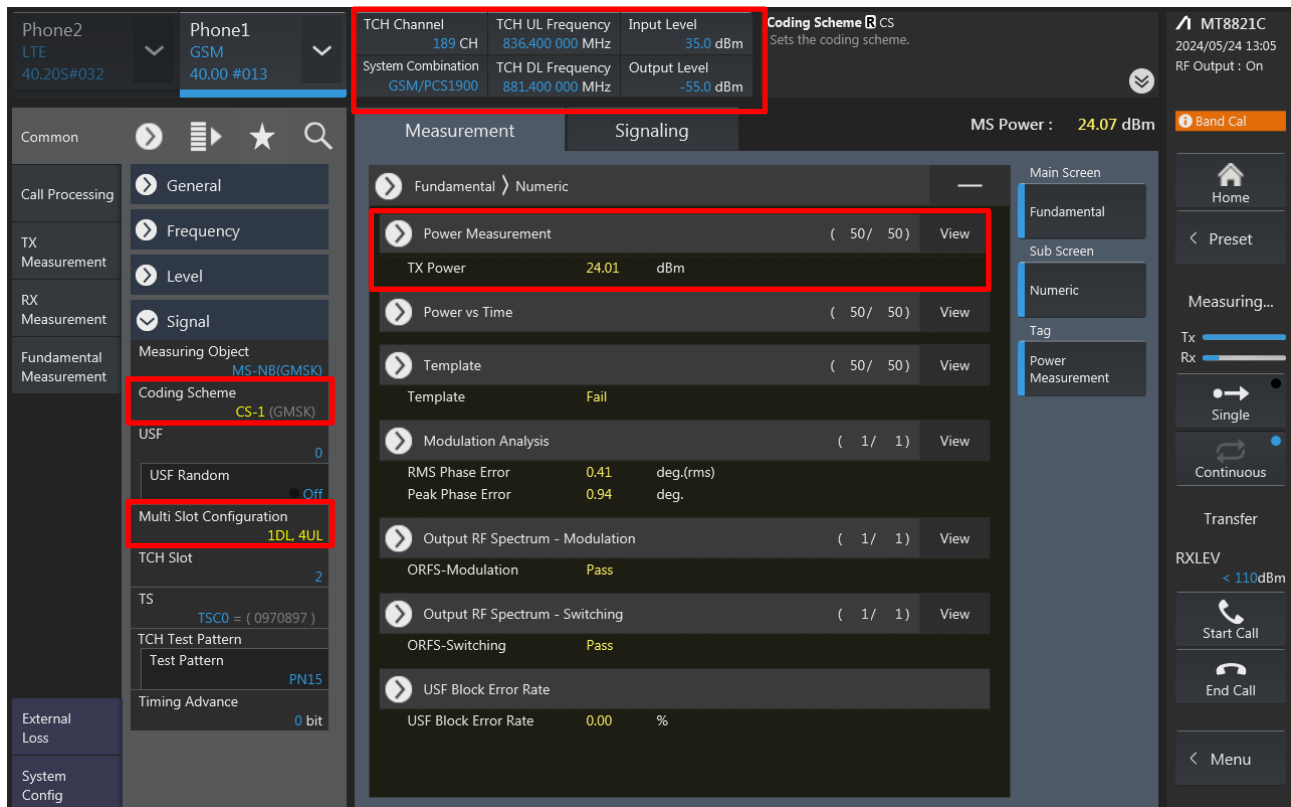


Power measurement connection diagram:

The power measurement for 2G/3G/LTE/5G FR1/UL and DL CA is to establish a connection between device and call box, and via call box to configure Bands, channel, BWs, RB size, carrier aggregation of CA, frequency channels, SCS and maximum output power. Hereunder is screenshot call box connection information for 2G/3G/LTE/5G FR1/UL and DL CA.

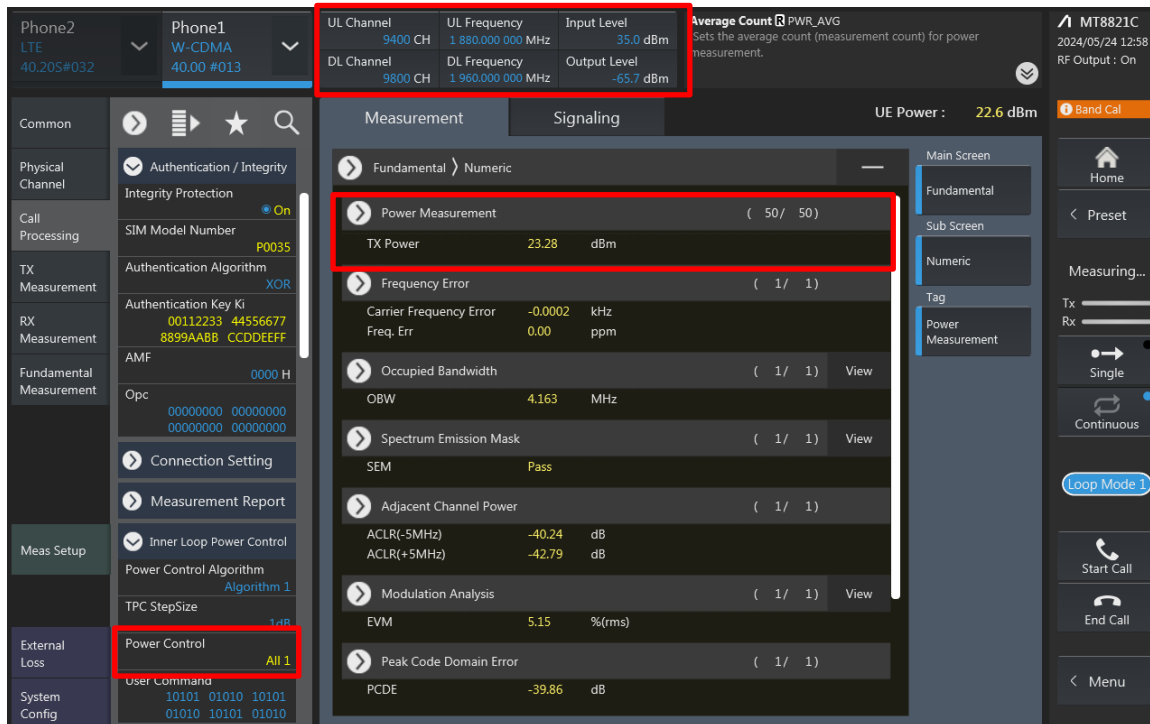
<GSM>



The screenshot displays the SPORTON LAB. software interface for GSM power measurement. The interface is divided into several sections:

- Top Bar:** Shows Phone2 (LTE, 40.205#032) and Phone1 (GSM, 40.00 #013). It also displays TCH Channel (189 CH), TCH UL Frequency (836.400 000 MHz), Input Level (35.0 dBm), TCH DL Frequency (881.400 000 MHz), and Output Level (-55.0 dBm). The Coding Scheme is set to CS.
- Left Sidebar:** Contains navigation options like Common, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. The 'Fundamental Measurement' section is expanded, showing 'Coding Scheme' (CS-1 (GMSK)) and 'Multi Slot Configuration' (1DL, 4UL).
- Main Area:** Displays 'Measurement' and 'Signaling' tabs. The 'Measurement' tab is active, showing 'Fundamental' and 'Numeric' views. The 'Power Measurement' section is highlighted, showing 'TX Power' (24.01 dBm). Other measurements include 'Power vs Time', 'Template', 'Modulation Analysis', 'Output RF Spectrum - Modulation', 'Output RF Spectrum - Switching', and 'USF Block Error Rate'.
- Right Sidebar:** Shows 'Main Screen' and 'Sub Screen' options. It also displays 'MT8821C' and 'RF Output : On'.

<WCDMA>



Phone2: LTE 40.20S#032, Phone1: W-CDMA 40.00 #013

UL Channel: 9400 CH, UL Frequency: 1 880.000 000 MHz, Input Level: 35.0 dBm
DL Channel: 9800 CH, DL Frequency: 1 960.000 000 MHz, Output Level: -65.7 dBm

Average Count: PWR_AVG (Sets the average count (measurement count) for power measurement.)

MT8821C 2024/05/24 12:58, RF Output: On

UE Power: 22.6 dBm

Measurement: Fundamental > Numeric

Power Measurement (50/50): TX Power 23.28 dBm

Frequency Error (1/1): Carrier Frequency Error -0.0002 kHz, Freq. Err 0.00 ppm

Occupied Bandwidth (1/1): OBW 4.163 MHz

Spectrum Emission Mask (1/1): SEM Pass

Adjacent Channel Power (1/1): ACLR(-5MHz) -40.24 dB, ACLR(+5MHz) -42.79 dB

Modulation Analysis (1/1): EVM 5.15 %(rms)

Peak Code Domain Error (1/1): PCDE -39.86 dB

Connection Setting: Authentication / Integrity Integrity Protection On, SIM Model Number P0035, Authentication Algorithm XOR, Authentication Key Ki 00112233 44556677 8899AABB CCDDDEFF, AMF 0000 H, Opc 00000000 00000000 00000000 00000000

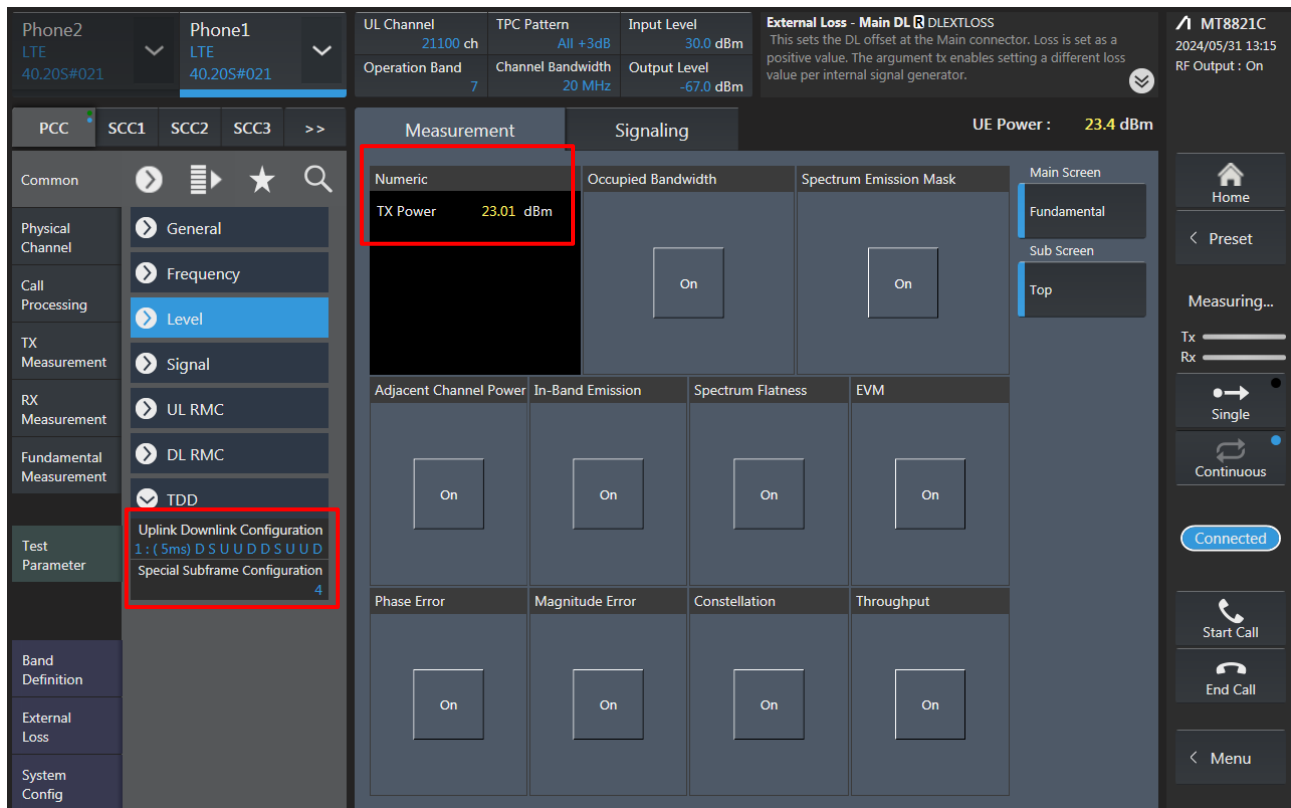
Measurement Report: Connection Setting, Measurement Report

Meas Setup: Inner Loop Power Control, Power Control Algorithm Algorithm 1, TPC StepSize 1

External Loss: Power Control All 1

User Command: 10101 01010 10101 01010 10101 01010

<LTE>



Phone2: LTE 40.20S#021, Phone1: LTE 40.20S#021

UL Channel: 21100 ch, TPC Pattern All +3dB, Input Level: 30.0 dBm
Operation Band: 7, Channel Bandwidth: 20 MHz, Output Level: -67.0 dBm

External Loss - Main DL DLEXTLOSS (This sets the DL offset at the Main connector. Loss is set as a positive value. The argument tx enables setting a different loss value per internal signal generator.)

MT8821C 2024/05/31 13:15, RF Output: On

UE Power: 23.4 dBm

Measurement: Numeric

TX Power 23.01 dBm

Occupied Bandwidth: On

Spectrum Emission Mask: On

Adjacent Channel Power: On

In-Band Emission: On

Spectrum Flatness: On

EVM: On

Phase Error: On

Magnitude Error: On

Constellation: On

Throughput: On

Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D, Special Subframe Configuration 4

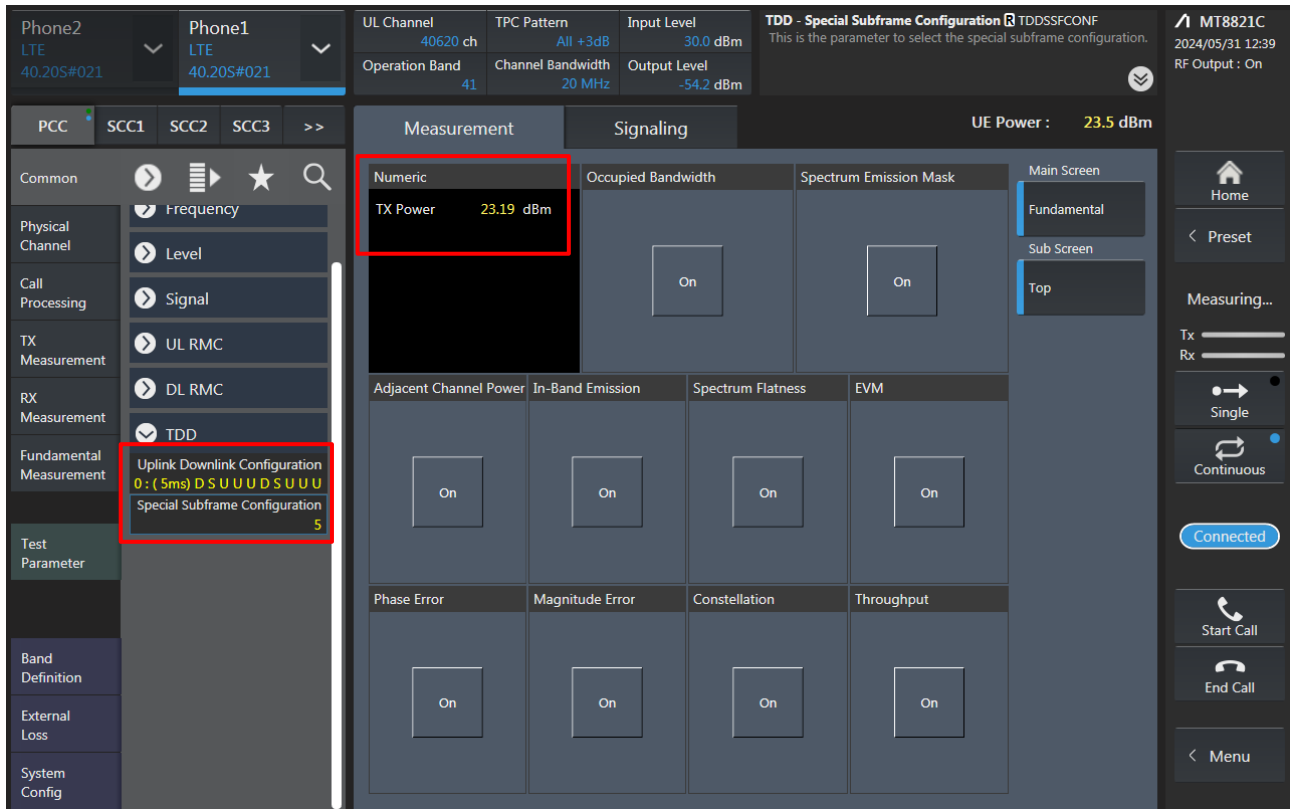
Test Parameter: Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D, Special Subframe Configuration 4

Band Definition: On

External Loss: On

System Config: On

<LTE TDD Power class 3>



Phone2 LTE 40.20S#021 Phone1 LTE 40.20S#021

UL Channel 40620 ch TPC Pattern All +3dB Input Level 30.0 dBm TDD - Special Subframe Configuration TDDSSFCNF This is the parameter to select the special subframe configuration. MT8821C 2024/05/31 12:39 RF Output : On

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

UE Power : 23.5 dBm

Measurement Signaling

Numeric TX Power 23.19 dBm

Occupied Bandwidth Spectrum Emission Mask

On On

Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

On On On On

Phase Error Magnitude Error Constellation Throughput

On On On On

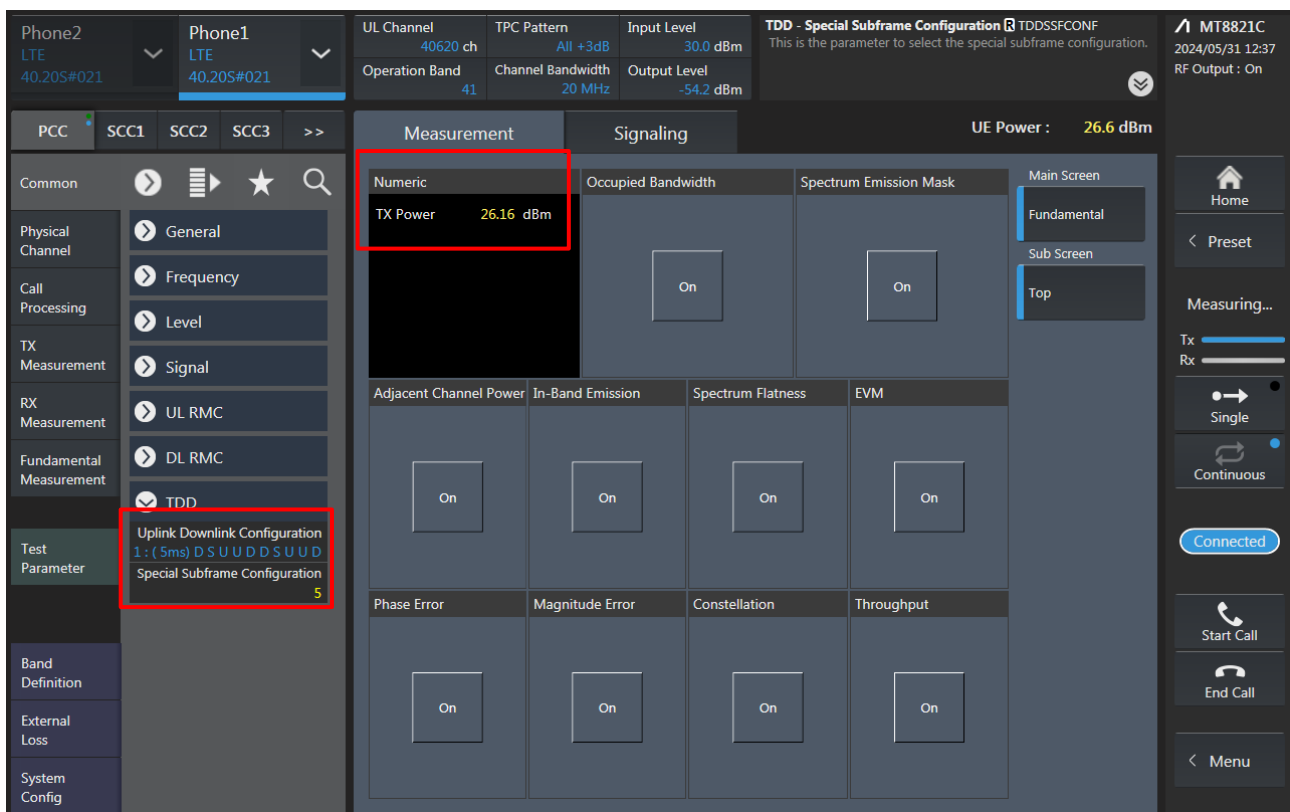
Common Frequency Level Signal UL RMC DL RMC TDD Uplink Downlink Configuration 0 : (5ms) D S U U U D S U U U Special Subframe Configuration 5

Physical Channel Call Processing TX Measurement RX Measurement Fundamental Measurement Test Parameter Band Definition External Loss System Config

Main Screen Fundamental Sub Screen Top

Home Preset Measuring... Tx Rx Single Continuous Connected Start Call End Call Menu

<LTE TDD Power class 2>



Phone2 LTE 40.20S#021 Phone1 LTE 40.20S#021

UL Channel 40620 ch TPC Pattern All +3dB Input Level 30.0 dBm TDD - Special Subframe Configuration TDDSSFCNF This is the parameter to select the special subframe configuration. MT8821C 2024/05/31 12:37 RF Output : On

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

UE Power : 26.6 dBm

Measurement Signaling

Numeric TX Power 26.16 dBm

Occupied Bandwidth Spectrum Emission Mask

On On

Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

On On On On

Phase Error Magnitude Error Constellation Throughput

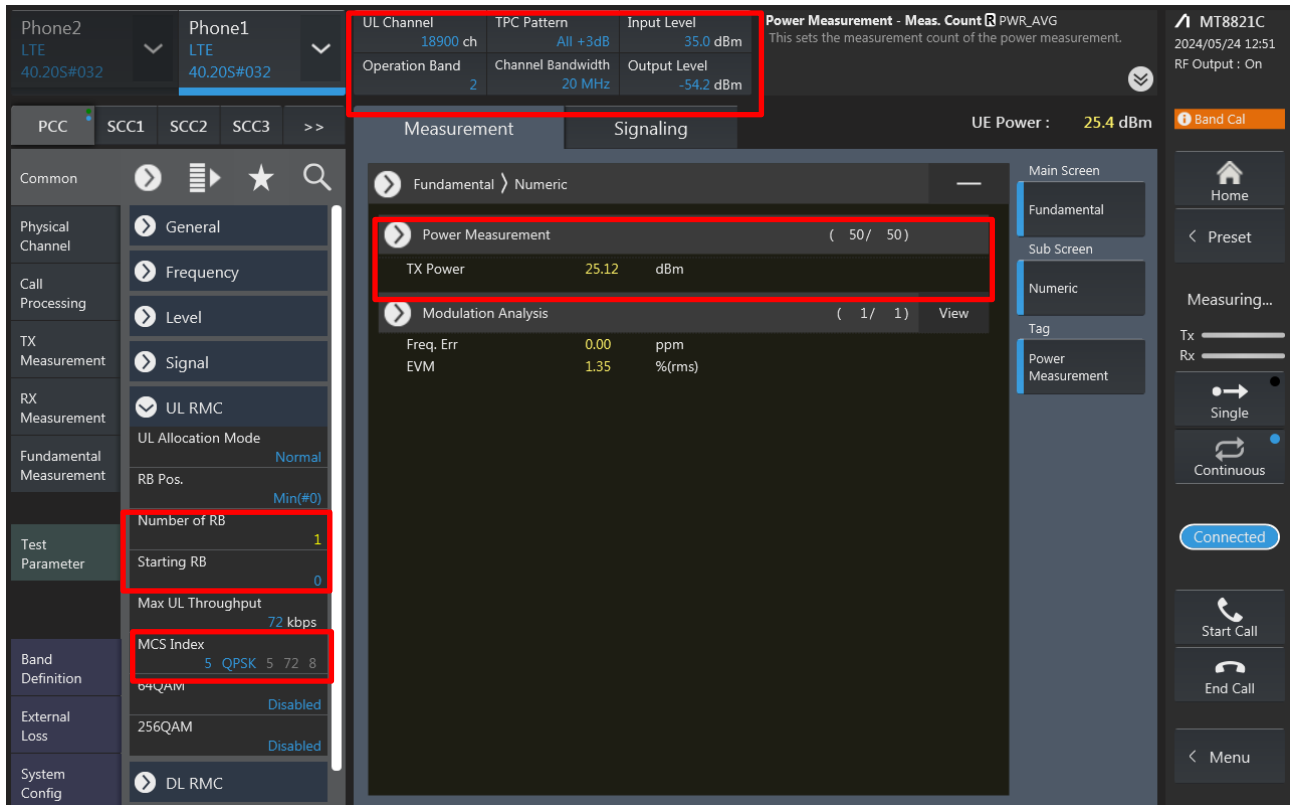
On On On On

Common General Frequency Level Signal UL RMC DL RMC TDD Uplink Downlink Configuration 1 : (5ms) D S U U U D D S U U U Special Subframe Configuration 5

Physical Channel Call Processing TX Measurement RX Measurement Fundamental Measurement Test Parameter Band Definition External Loss System Config

Main Screen Fundamental Sub Screen Top

Home Preset Measuring... Tx Rx Single Continuous Connected Start Call End Call Menu



Phone2 LTE 40.20S#032

Phone1 LTE 40.20S#032

UL Channel 18900 ch

TPC Pattern All +3dB

Input Level 35.0 dBm

Operation Band 2

Channel Bandwidth 20 MHz

Output Level -54.2 dBm

Power Measurement - Meas. Count PWR_AVG

This sets the measurement count of the power measurement.

MT8821C 2024/05/24 12:51 RF Output : On

Measurement **Signaling** **UE Power :** 25.4 dBm

Common

Physical Channel

Call Processing

TX Measurement

RX Measurement

Fundamental Measurement

Test Parameter

Band Definition

External Loss

System Config

General

Frequency

Level

Signal

UL RMC

UL Allocation Mode Normal

RB Pos. Min(#0)

Number of RB 1

Starting RB 0

Max UL Throughput 72 kbps

MCS Index 5 QPSK 5 72 8

DL RMC

Fundamental **Numeric**

Power Measurement (50 / 50)

TX Power 25.12 dBm

Modulation Analysis (1 / 1) View

Freq. Err 0.00 ppm

EVM 1.35 %(rms)

Main Screen

Fundamental

Sub Screen

Numeric

Tag

Power Measurement

Home

Preset

Measuring...

Tx

Rx

Single

Continuous

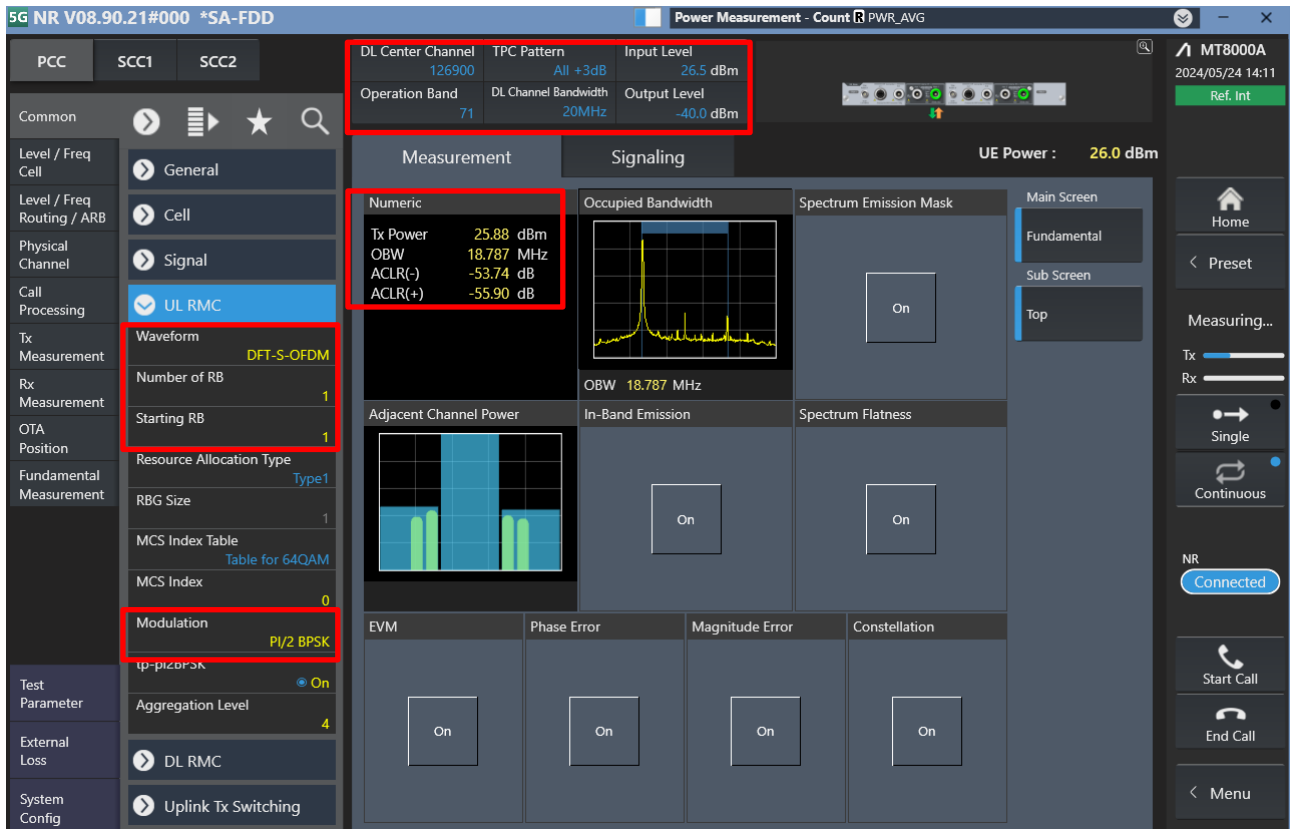
Connected

Start Call

End Call

Menu

<5G NR FR1>



5G NR V08.90.21#000 *SA-FDD

DL Center Channel 126900

TPC Pattern All +3dB

Input Level 26.5 dBm

Operation Band 71

DL Channel Bandwidth 20MHz

Output Level -40.0 dBm

Power Measurement - Count PWR_AVG

MT8000A 2024/05/24 14:11 Ref. Int

Measurement **Signaling** **UE Power :** 26.0 dBm

Common

Level / Freq Cell

Level / Freq Routing / ARB

Physical Channel

Call Processing

TX Measurement

Rx Measurement

OTA Position

Fundamental Measurement

Test Parameter

External Loss

System Config

General

Cell

Signal

UL RMC

Waveform DFT-S-OFDM

Number of RB 1

Starting RB 1

Resource Allocation Type Type1

RBG Size 1

MCS Index Table Table for 64QAM

MCS Index 0

Modulation Pi/2 BPSK

DL RMC

Uplink Tx Switching

Numeric

Tx Power 25.88 dBm

OBW 18.787 MHz

ACL(-) -53.74 dB

ACL(+) -55.90 dB

Occupied Bandwidth

Spectrum Emission Mask On

Adjacent Channel Power

In-Band Emission On

Spectrum Flatness On

EVM On

Phase Error On

Magnitude Error On

Constellation On

Main Screen

Fundamental

Sub Screen

Top

Home

Preset

Measuring...

Tx

Rx

Single

Continuous

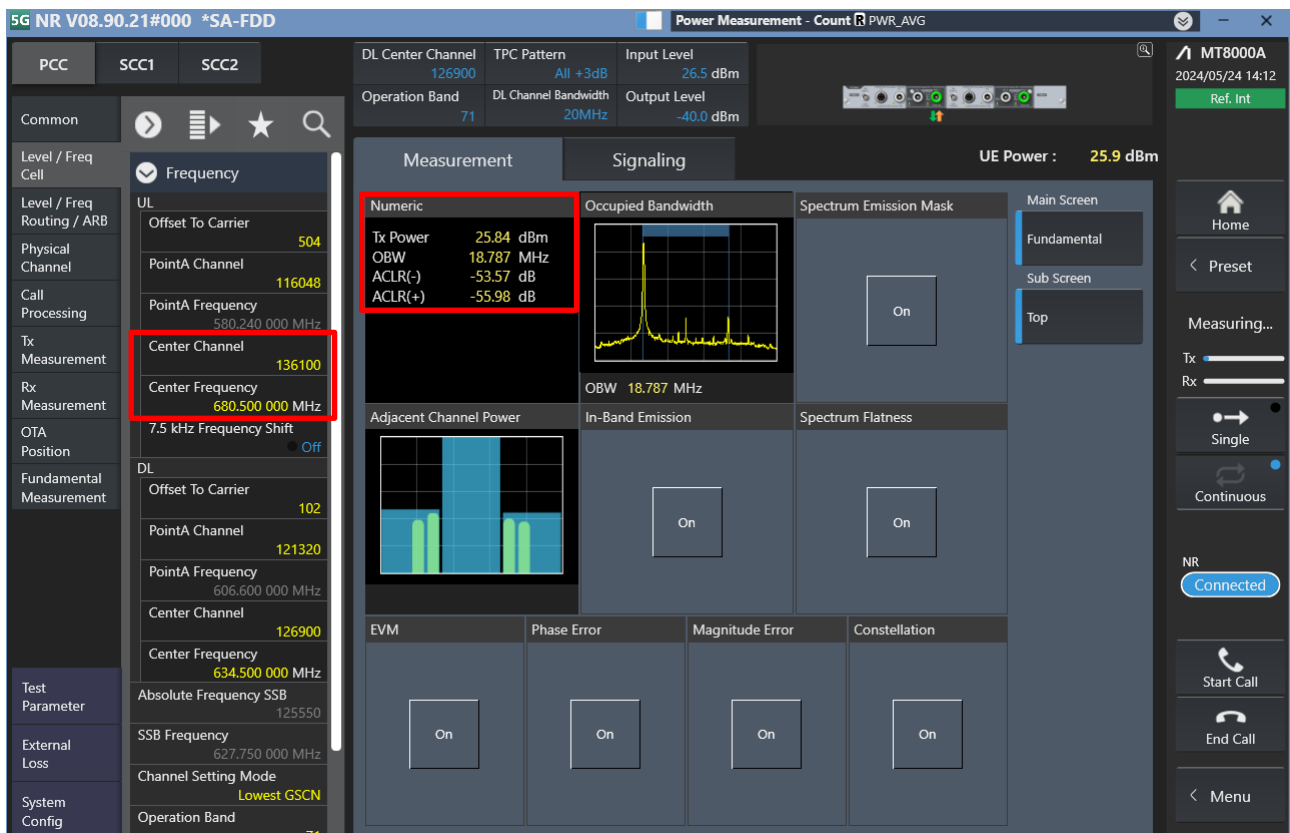
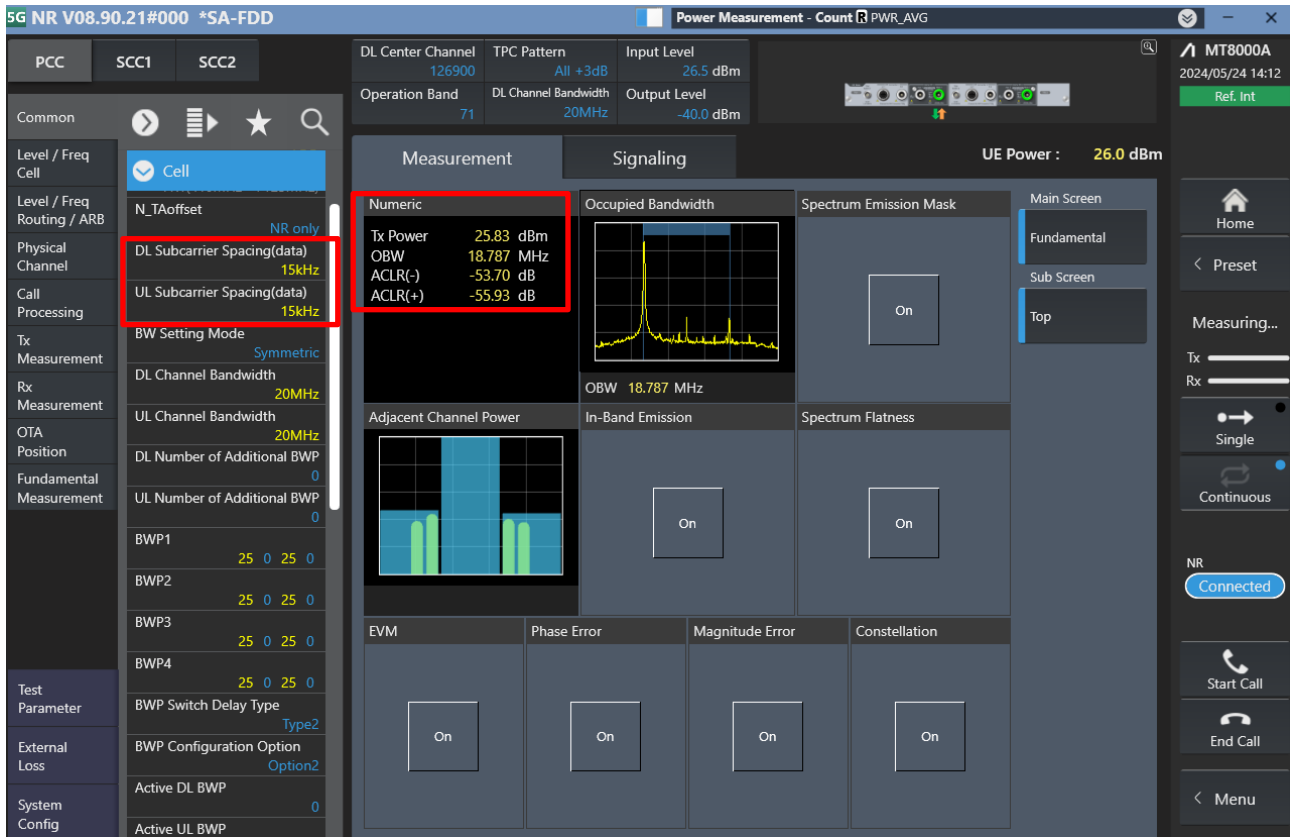
NR

Connected

Start Call

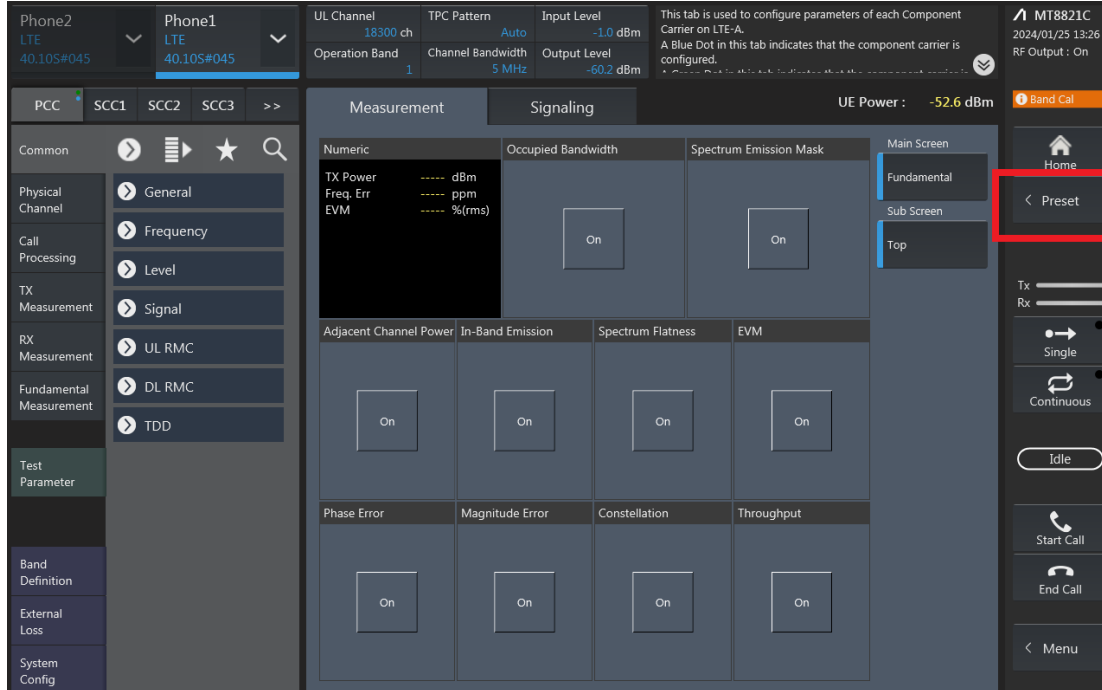
End Call

Menu



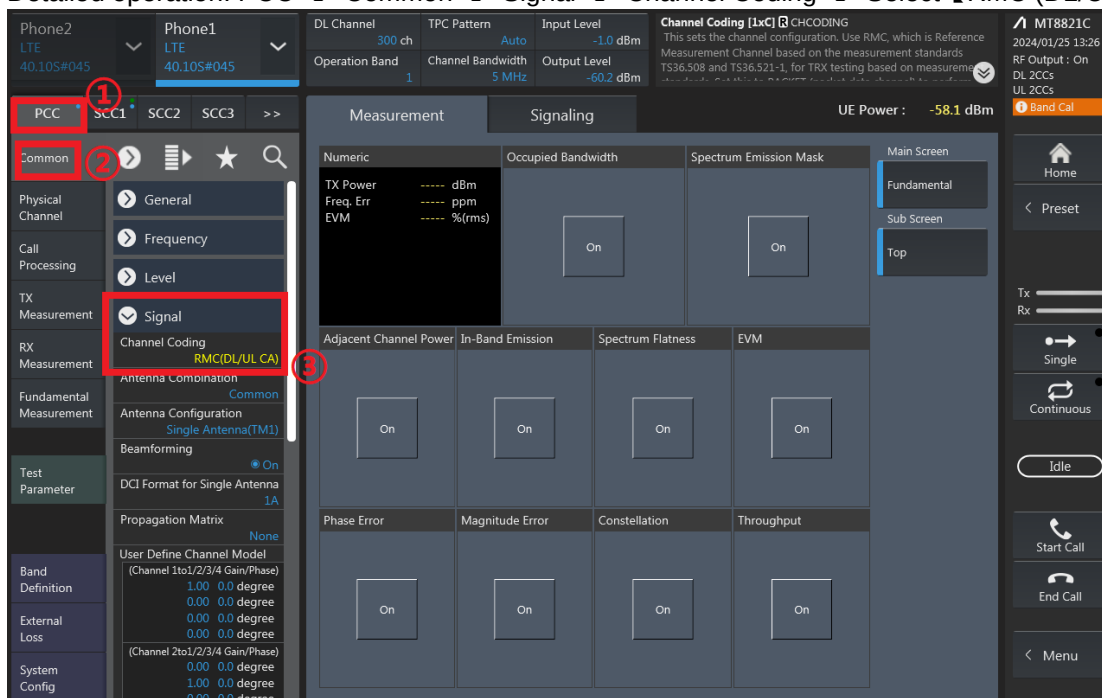
LTE Uplink and Downlink Carrier Aggregation configurations:

1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.

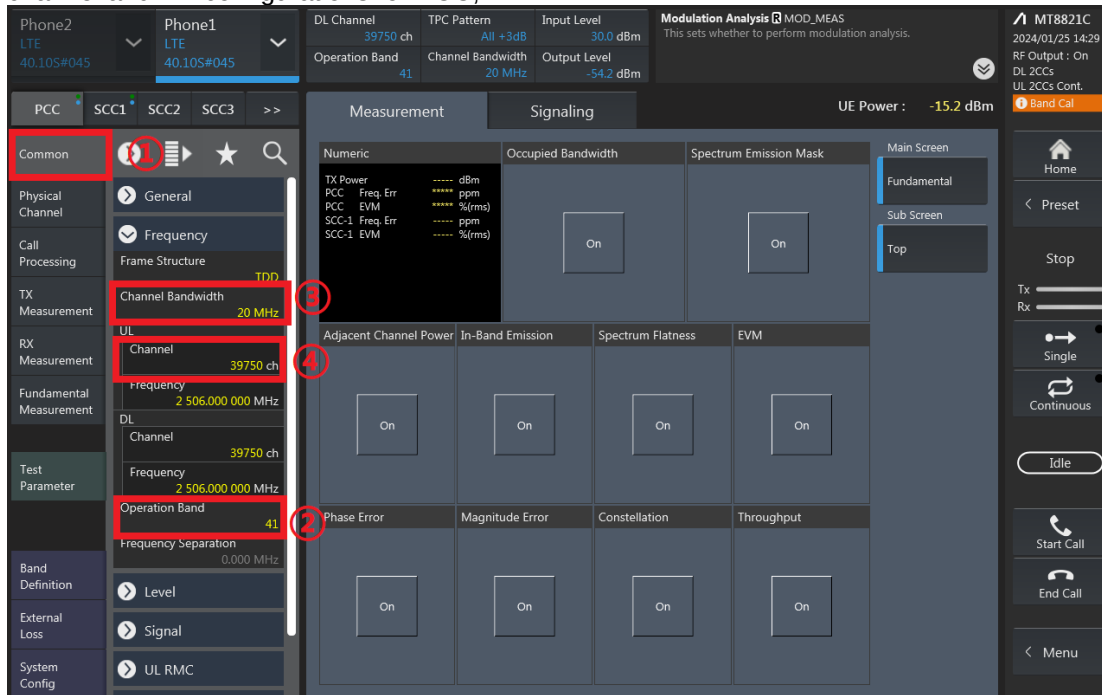


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



Phone2 LTE 40.10S#045 Phone1 LTE 40.10S#045

DL Channel 39750 ch TPC Pattern All +3dB Input Level 30.0 dBm Modulation Analysis MOD_MEAS This sets whether to perform modulation analysis.

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

MT8821C 2024/01/25 14:29 RF Output : On DL 2CCs UL 2CCs Cont.

UE Power : -15.2 dBm

Measurement Signaling

Common

Physical Channel General

Call Processing Frequency

TX Measurement Channel Bandwidth 20 MHz

RX Measurement Channel 39750 ch

Fundamental Measurement Frequency 2 506.000 000 MHz

Test Parameter Channel 39750 ch Frequency 2 506.000 000 MHz Operation Band 41 Frequency Separation 0.000 MHz

Band Definition Level

External Loss Signal

System Config UL RMC

Numeric

TX Power PCC Freq. Err. dBm PCC EVM ppm SCC-1 Freq. Err. ppm SCC-1 EVM ppm

Occupied Bandwidth

Spectrum Emission Mask

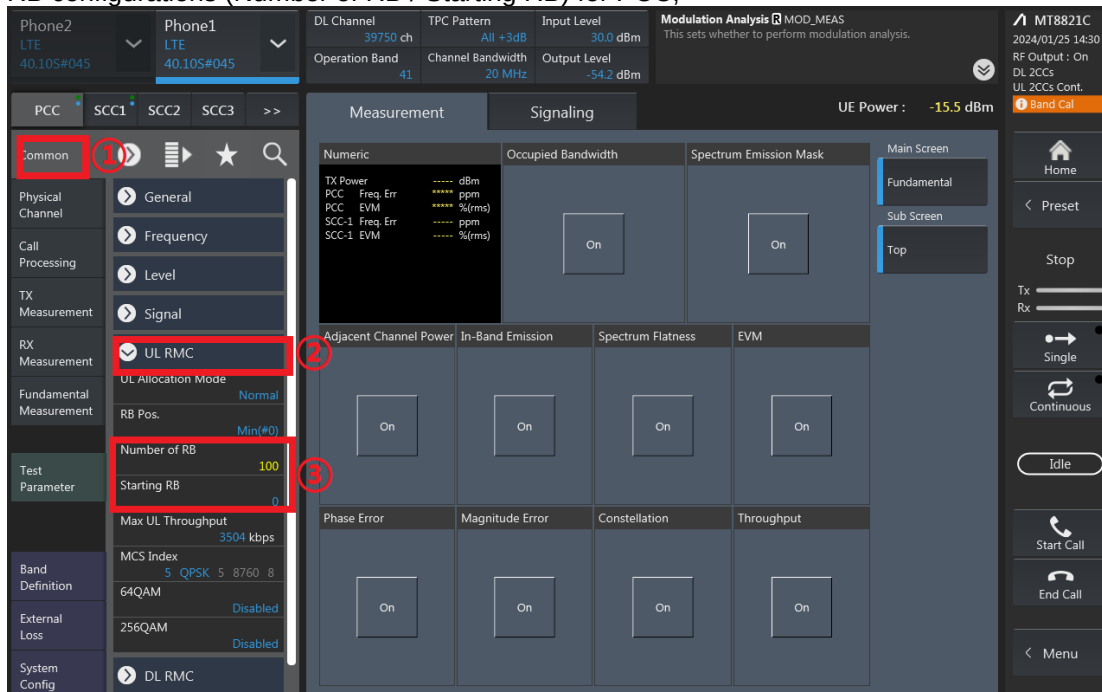
Main Screen Fundamental Sub Screen Top

Home Preset Stop Tx Rx Single Continuous Idle Start Call End Call Menu

Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

Phase Error Magnitude Error Constellation Throughput

RB configurations (Number of RB / Starting RB) for PCC;



Phone2 LTE 40.10S#045 Phone1 LTE 40.10S#045

DL Channel 39750 ch TPC Pattern All +3dB Input Level 30.0 dBm Modulation Analysis MOD_MEAS This sets whether to perform modulation analysis.

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

MT8821C 2024/01/25 14:30 RF Output : On DL 2CCs UL 2CCs Cont.

UE Power : -15.5 dBm

Measurement Signaling

Common

Physical Channel General

Call Processing Frequency

TX Measurement Level

RX Measurement Signal

Fundamental Measurement UL RMC

Test Parameter UL Allocation Mode Normal RB Pos. Min(#0) Number of RB 100 Starting RB 0 Max UL Throughput 3504 kbps MCS Index 5 QPSK 5 8760 8 64QAM 256QAM Disabled Disabled

Band Definition DL RMC

Numeric

TX Power PCC Freq. Err. dBm PCC EVM ppm SCC-1 Freq. Err. ppm SCC-1 EVM ppm

Occupied Bandwidth

Spectrum Emission Mask

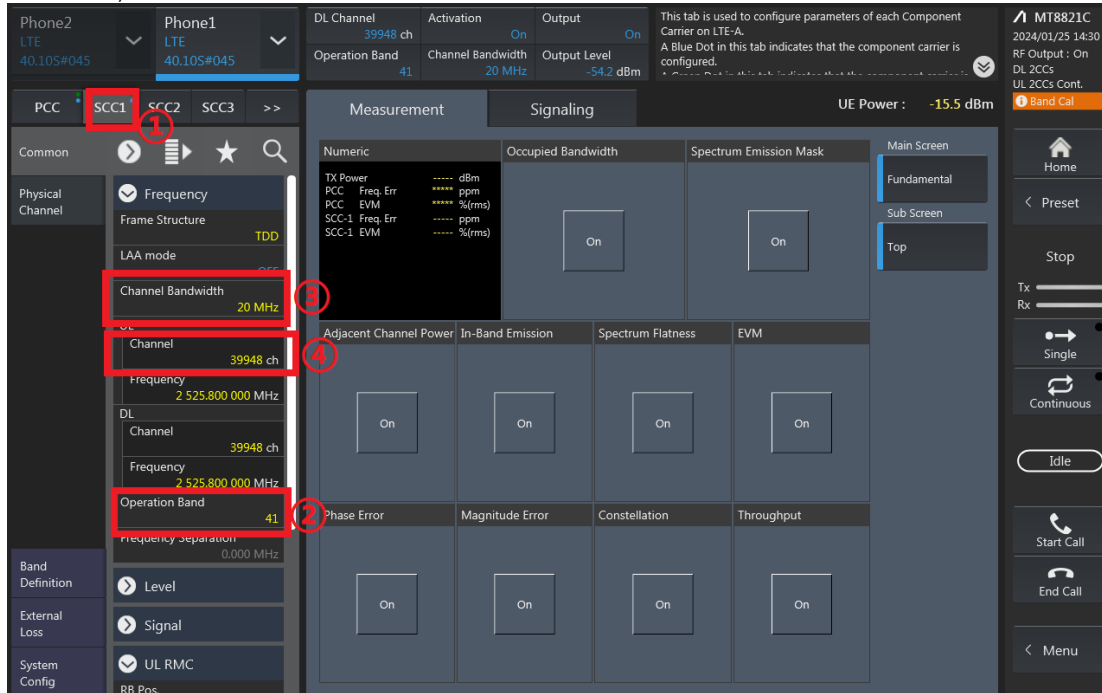
Main Screen Fundamental Sub Screen Top

Home Preset Stop Tx Rx Single Continuous Idle Start Call End Call Menu

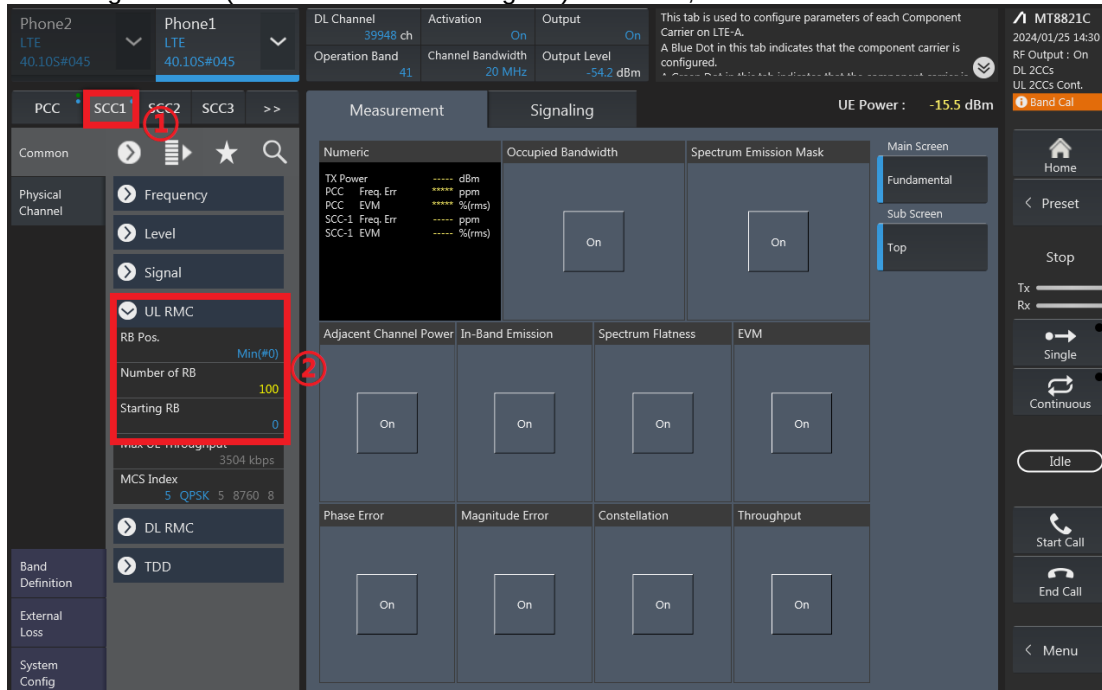
Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

Phase Error Magnitude Error Constellation Throughput

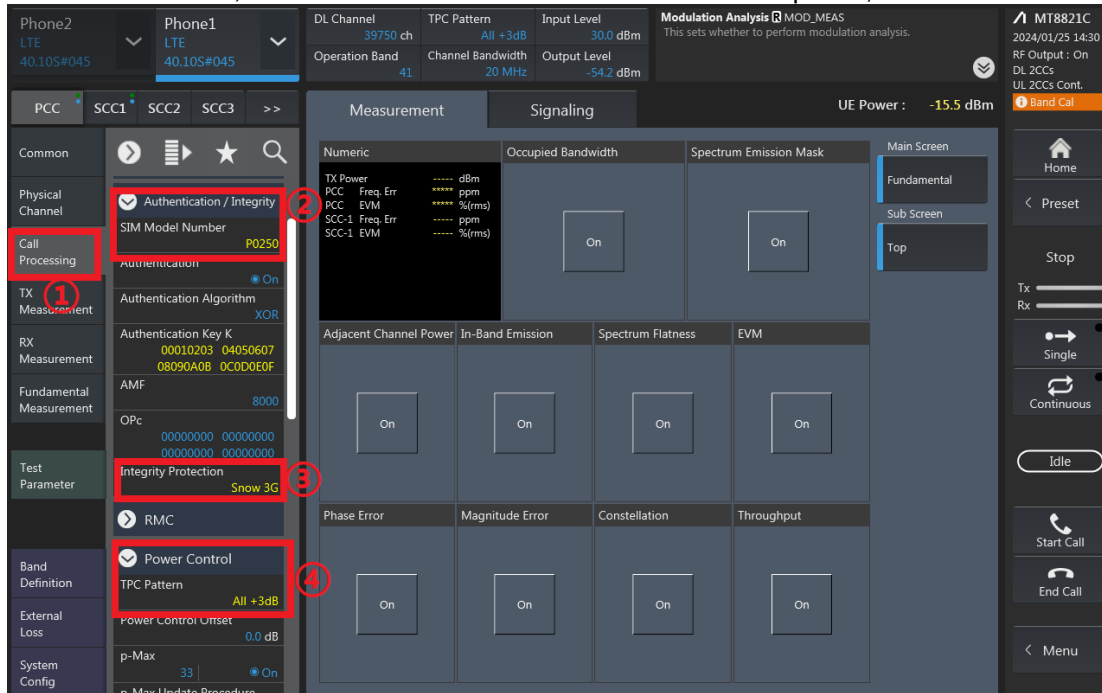
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



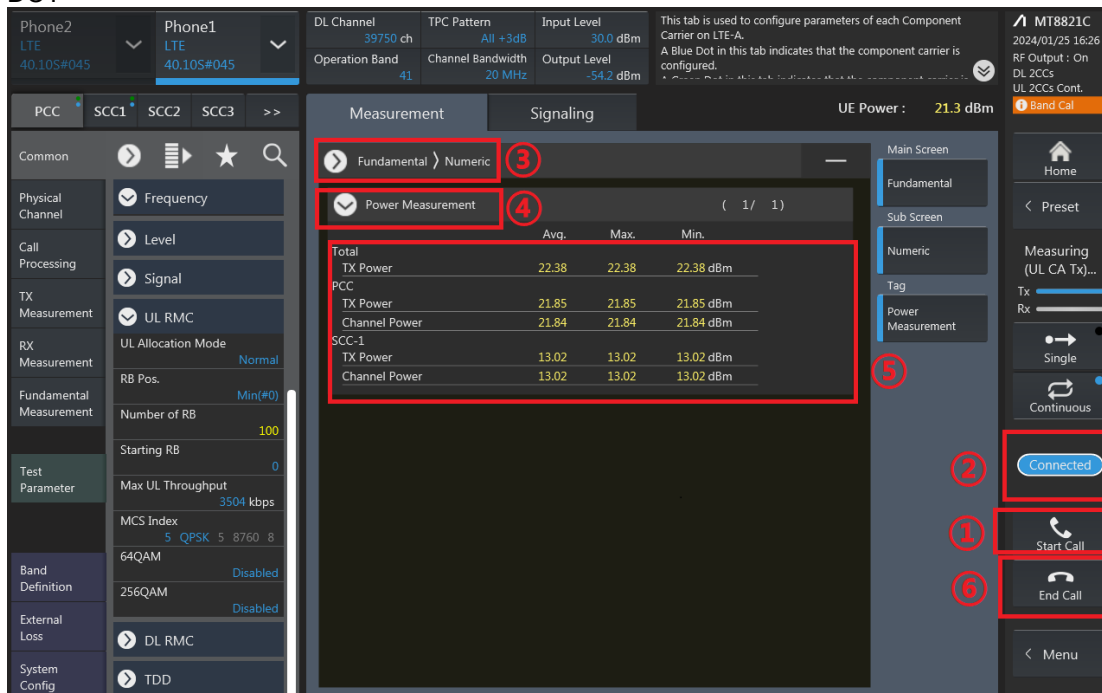
RB configurations (Number of RB / Starting RB) for SCC1;



5. Select the PCC tab, then set “SIM Model Number” and select max power;



6. Click the “Connect” button at the Right of the screen, if necessary, turn the Airplane mode on/off in the DUT



7. The inter-band ULCA test method is similar to intra-band ULCA, and DLCA test method is similar to intra-band ULCA too.

CA_7C_Ant 5											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (db)	Power Reduction	Measured Power (dbm)	Tune up Power (dbm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full	24.35	25.00
21100	21298	QPSK	1	0	0	0	1	0	Full	24.40	25.00
21350	21152	QPSK	1	0	0	0	1	0	Full	24.33	25.00
20850	21048	QPSK	1	0	0	0	1	0	ECI 5	24.35	25.00
21100	21298	QPSK	1	0	0	0	1	0	ECI 5	24.40	25.00
21350	21152	QPSK	1	0	0	0	1	0	ECI 5	24.33	25.00
20850	21048	QPSK	1	0	0	0	1	0	ECI 10	24.35	25.00
21100	21298	QPSK	1	0	0	0	1	0	ECI 10	24.40	25.00
21350	21152	QPSK	1	0	0	0	1	0	ECI 10	24.33	25.00
20850	21048	QPSK	1	0	0	0	1	0	ECI 3	18.74	19.50
21100	21298	QPSK	1	0	0	0	1	0	ECI 3	18.82	19.50
21350	21152	QPSK	1	0	0	0	1	0	ECI 3	18.77	19.50
20850	21048	QPSK	1	0	0	0	1	0	ECI 8	18.74	19.50
21100	21298	QPSK	1	0	0	0	1	0	ECI 8	18.82	19.50
21350	21152	QPSK	1	0	0	0	1	0	ECI 8	18.77	19.50

CA_7C_Ant 6											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full	23.68	24.50
21100	21298	QPSK	1	0	0	0	1	0	Full	23.79	24.50
21350	21152	QPSK	1	0	0	0	1	0	Full	23.75	24.50
20850	21048	QPSK	1	0	0	0	1	0	ECI 5	15.50	16.50
21100	21298	QPSK	1	0	0	0	1	0	ECI 5	15.60	16.50
21350	21152	QPSK	1	0	0	0	1	0	ECI 5	15.49	16.50
20850	21048	QPSK	1	0	0	0	1	0	ECI 10	14.42	15.50
21100	21298	QPSK	1	0	0	0	1	0	ECI 10	14.60	15.50
21350	21152	QPSK	1	0	0	0	1	0	ECI 10	14.55	15.50
20850	21048	QPSK	1	0	0	0	1	0	ECI 3	18.70	19.50
21100	21298	QPSK	1	0	0	0	1	0	ECI 3	18.80	19.50
21350	21152	QPSK	1	0	0	0	1	0	ECI 3	18.77	19.50
20850	21048	QPSK	1	0	0	0	1	0	ECI 8	16.30	17.50
21100	21298	QPSK	1	0	0	0	1	0	ECI 8	16.50	17.50
21350	21152	QPSK	1	0	0	0	1	0	ECI 8	16.38	17.50

CA_7C_Ant 11											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full	23.83	24.40
21100	21298	QPSK	1	0	0	0	1	0	Full	23.89	24.40
21350	21152	QPSK	1	0	0	0	1	0	Full	23.80	24.40
20850	21048	QPSK	1	0	0	0	1	0	ECI 5	16.70	17.40
21100	21298	QPSK	1	0	0	0	1	0	ECI 5	16.78	17.40
21350	21152	QPSK	1	0	0	0	1	0	ECI 5	16.74	17.40
20850	21048	QPSK	1	0	0	0	1	0	ECI 10	15.80	16.40
21100	21298	QPSK	1	0	0	0	1	0	ECI 10	15.87	16.40
21350	21152	QPSK	1	0	0	0	1	0	ECI 10	15.78	16.40
20850	21048	QPSK	1	0	0	0	1	0	ECI 3	18.72	19.40
21100	21298	QPSK	1	0	0	0	1	0	ECI 3	18.79	19.40
21350	21152	QPSK	1	0	0	0	1	0	ECI 3	18.75	19.40
20850	21048	QPSK	1	0	0	0	1	0	ECI 8	16.70	17.40
21100	21298	QPSK	1	0	0	0	1	0	ECI 8	16.78	17.40
21350	21152	QPSK	1	0	0	0	1	0	ECI 8	16.74	17.40

CA_7C_Ant 7											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full	19.30	21.00
21100	21298	QPSK	1	0	0	0	1	0	Full	19.72	21.00
21350	21152	QPSK	1	0	0	0	1	0	Full	19.96	21.00
20850	21048	QPSK	1	0	0	0	1	0	ECI 5	15.85	17.50
21100	21298	QPSK	1	0	0	0	1	0	ECI 5	16.25	17.50
21350	21152	QPSK	1	0	0	0	1	0	ECI 5	16.40	17.50
20850	21048	QPSK	1	0	0	0	1	0	ECI 10	13.87	15.50
21100	21298	QPSK	1	0	0	0	1	0	ECI 10	14.26	15.50
21350	21152	QPSK	1	0	0	0	1	0	ECI 10	14.52	15.50
20850	21048	QPSK	1	0	0	0	1	0	ECI 3	19.30	21.00
21100	21298	QPSK	1	0	0	0	1	0	ECI 3	19.72	21.00
21350	21152	QPSK	1	0	0	0	1	0	ECI 3	19.96	21.00
20850	21048	QPSK	1	0	0	0	1	0	ECI 8	17.45	19.00
21100	21298	QPSK	1	0	0	0	1	0	ECI 8	17.97	19.00
21350	21152	QPSK	1	0	0	0	1	0	ECI 8	18.23	19.00

CA_38C_Ant 5											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (db)	Power Reduction	Measured Power (dbm)	Tune up Power (dbm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Full	24.35	25.00
37901	38099	QPSK	1	0	0	0	1	0	Full	24.42	25.00
38150	37952	QPSK	1	0	0	0	1	0	Full	24.30	25.00
37850	38048	QPSK	1	0	0	0	1	0	ECI 5	24.35	25.00
37901	38099	QPSK	1	0	0	0	1	0	ECI 5	24.42	25.00
38150	37952	QPSK	1	0	0	0	1	0	ECI 5	24.30	25.00
37850	38048	QPSK	1	0	0	0	1	0	ECI 10	24.35	25.00
37901	38099	QPSK	1	0	0	0	1	0	ECI 10	24.42	25.00
38150	37952	QPSK	1	0	0	0	1	0	ECI 10	24.30	25.00
37850	38048	QPSK	1	0	0	0	1	0	ECI 3	20.74	21.50
37901	38099	QPSK	1	0	0	0	1	0	ECI 3	20.81	21.50
38150	37952	QPSK	1	0	0	0	1	0	ECI 3	20.77	21.50
37850	38048	QPSK	1	0	0	0	1	0	ECI 8	20.74	21.50
37901	38099	QPSK	1	0	0	0	1	0	ECI 8	20.81	21.50
38150	37952	QPSK	1	0	0	0	1	0	ECI 8	20.77	21.50

CA_38C_Ant 6											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Full	23.72	24.40
37901	38099	QPSK	1	0	0	0	1	0	Full	23.80	24.40
38150	37952	QPSK	1	0	0	0	1	0	Full	23.69	24.40
37850	38048	QPSK	1	0	0	0	1	0	ECI 5	17.77	18.40
37901	38099	QPSK	1	0	0	0	1	0	ECI 5	17.83	18.40
38150	37952	QPSK	1	0	0	0	1	0	ECI 5	17.65	18.40
37850	38048	QPSK	1	0	0	0	1	0	ECI 10	17.15	17.90
37901	38099	QPSK	1	0	0	0	1	0	ECI 10	17.20	17.90
38150	37952	QPSK	1	0	0	0	1	0	ECI 10	17.15	17.90
37850	38048	QPSK	1	0	0	0	1	0	ECI 3	19.72	20.40
37901	38099	QPSK	1	0	0	0	1	0	ECI 3	19.76	20.40
38150	37952	QPSK	1	0	0	0	1	0	ECI 3	19.69	20.40
37850	38048	QPSK	1	0	0	0	1	0	ECI 8	18.15	18.90
37901	38099	QPSK	1	0	0	0	1	0	ECI 8	18.22	18.90
38150	37952	QPSK	1	0	0	0	1	0	ECI 8	18.18	18.90

CA_38C_Ant 11											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Full	24.00	24.40
37901	38099	QPSK	1	0	0	0	1	0	Full	24.05	24.40
38150	37952	QPSK	1	0	0	0	1	0	Full	23.97	24.40
37850	38048	QPSK	1	0	0	0	1	0	ECI 5	15.30	15.90
37901	38099	QPSK	1	0	0	0	1	0	ECI 5	15.38	15.90
38150	37952	QPSK	1	0	0	0	1	0	ECI 5	15.28	15.90
37850	38048	QPSK	1	0	0	0	1	0	ECI 10	14.77	15.40
37901	38099	QPSK	1	0	0	0	1	0	ECI 10	14.83	15.40
38150	37952	QPSK	1	0	0	0	1	0	ECI 10	14.75	15.40
37850	38048	QPSK	1	0	0	0	1	0	ECI 3	18.85	20.40
37901	38099	QPSK	1	0	0	0	1	0	ECI 3	19.96	20.40
38150	37952	QPSK	1	0	0	0	1	0	ECI 3	19.88	20.40
37850	38048	QPSK	1	0	0	0	1	0	ECI 8	18.16	18.90
37901	38099	QPSK	1	0	0	0	1	0	ECI 8	18.24	18.90
38150	37952	QPSK	1	0	0	0	1	0	ECI 8	18.20	18.90