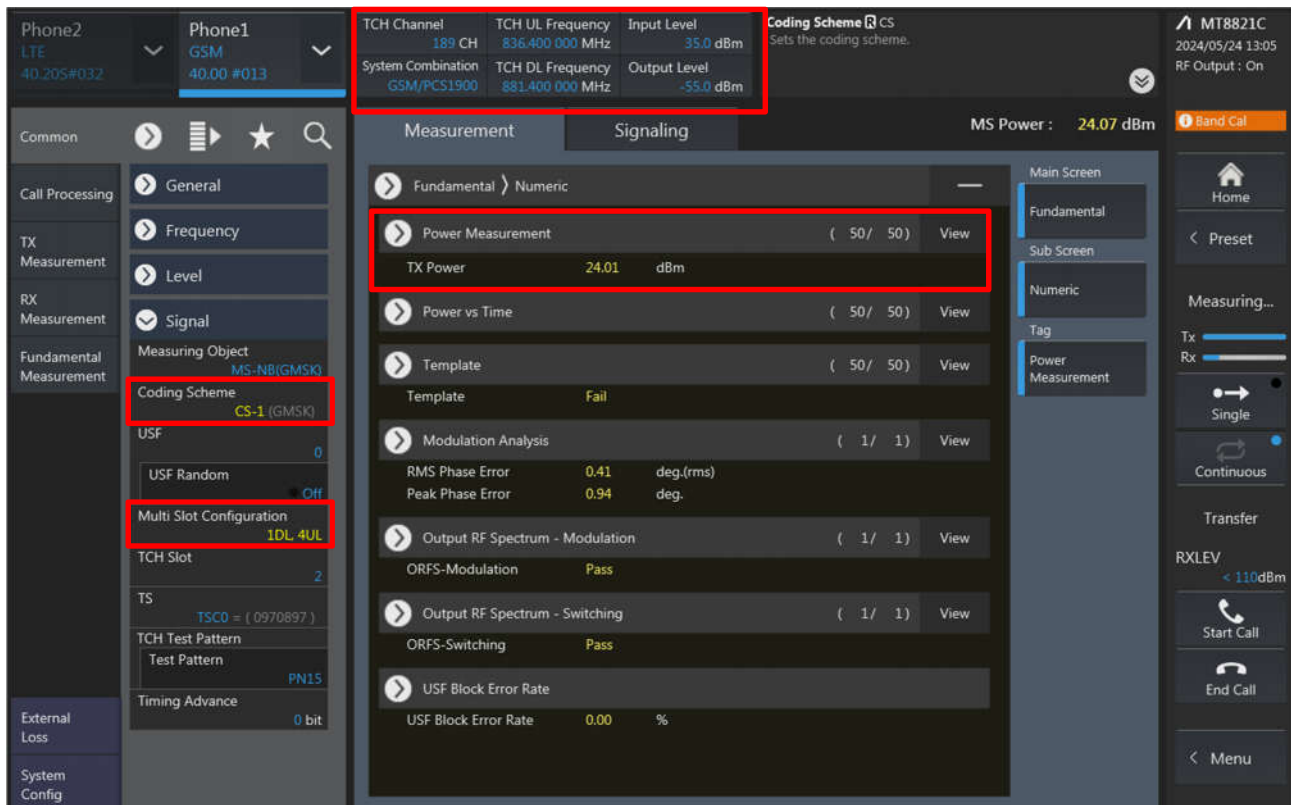


Power measurement connection diagram:

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.

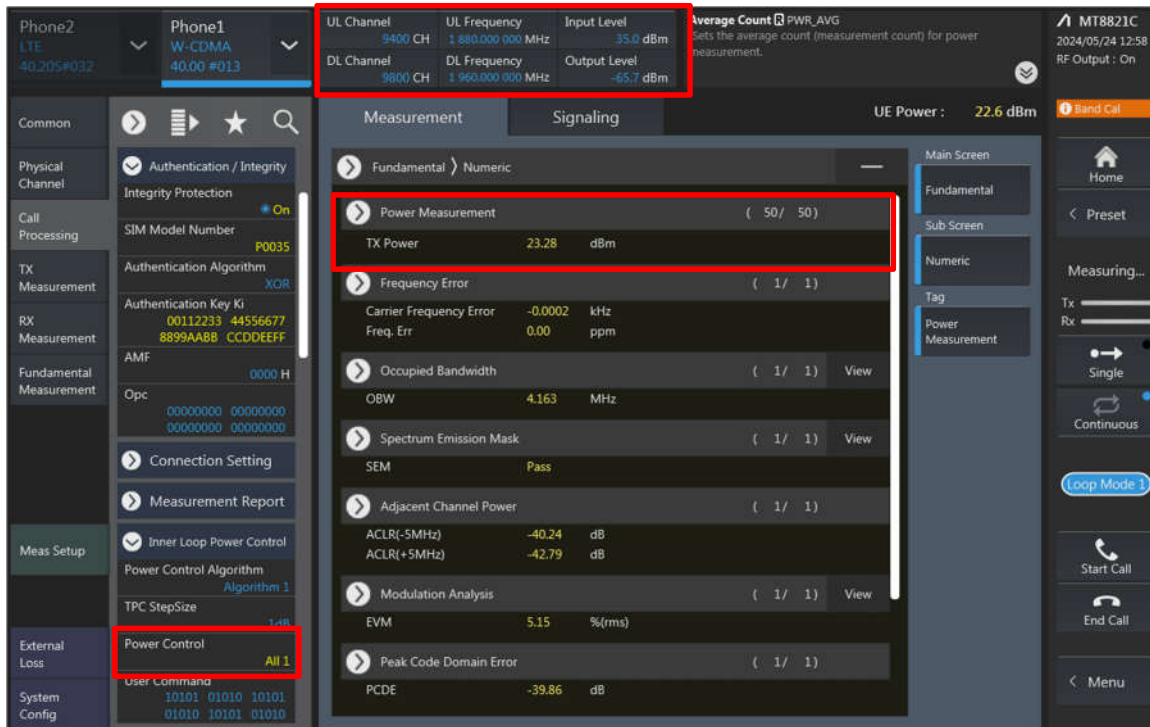
<GSM>



The screenshot displays the MT8821C software interface for GSM power measurement. The interface is divided into several sections:

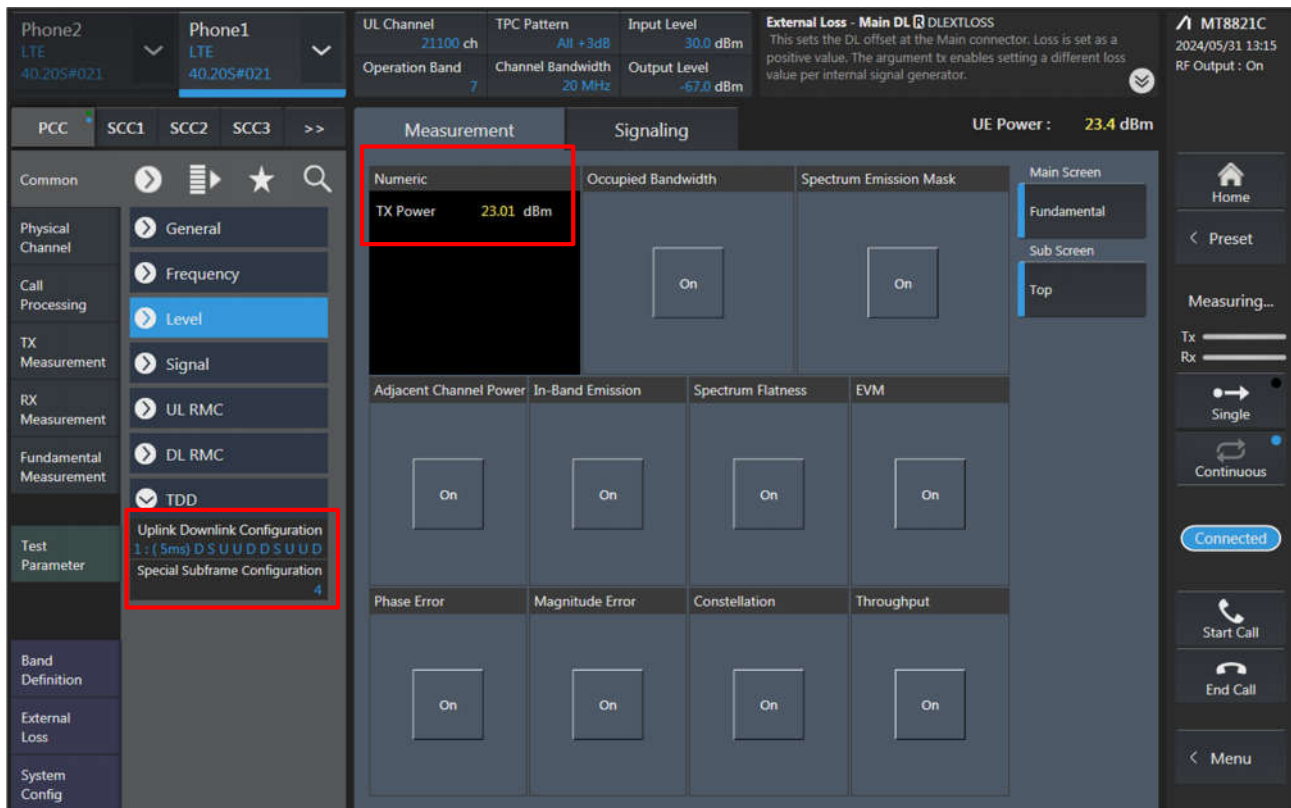
- Top Bar:** Shows Phone2 (LTE 40.205#032) and Phone1 (GSM 40.00 #013). The TCH Channel is 189 CH, TCH UL Frequency is 836.400 000 MHz, Input Level is 35.0 dBm, TCH DL Frequency is 881.400 000 MHz, and Output Level is -55.0 dBm. The Coding Scheme is CS.
- Left Panel:** Contains navigation options like Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. The 'Coding Scheme' is set to CS-1 (GMSK), and 'Multi Slot Configuration' is set to 1DL, 4UL.
- Main Panel:** Displays measurement results under the 'Measurement' tab. The 'Power Measurement' section shows TX Power as 24.01 dBm. Other sections include 'Power vs Time', 'Template' (Fail), 'Modulation Analysis' (RMS Phase Error: 0.41 deg.(rms), Peak Phase Error: 0.94 deg.), 'Output RF Spectrum - Modulation' (ORFS-Modulation: Pass), 'Output RF Spectrum - Switching' (ORFS-Switching: Pass), and 'USF Block Error Rate' (USF Block Error Rate: 0.00 %).
- Right Panel:** Shows the 'Main Screen' with options for Fundamental, Sub Screen, Numeric, and Tag. It also displays the 'MS Power' as 24.07 dBm and the 'Band Cal' status.

<WCDMA>



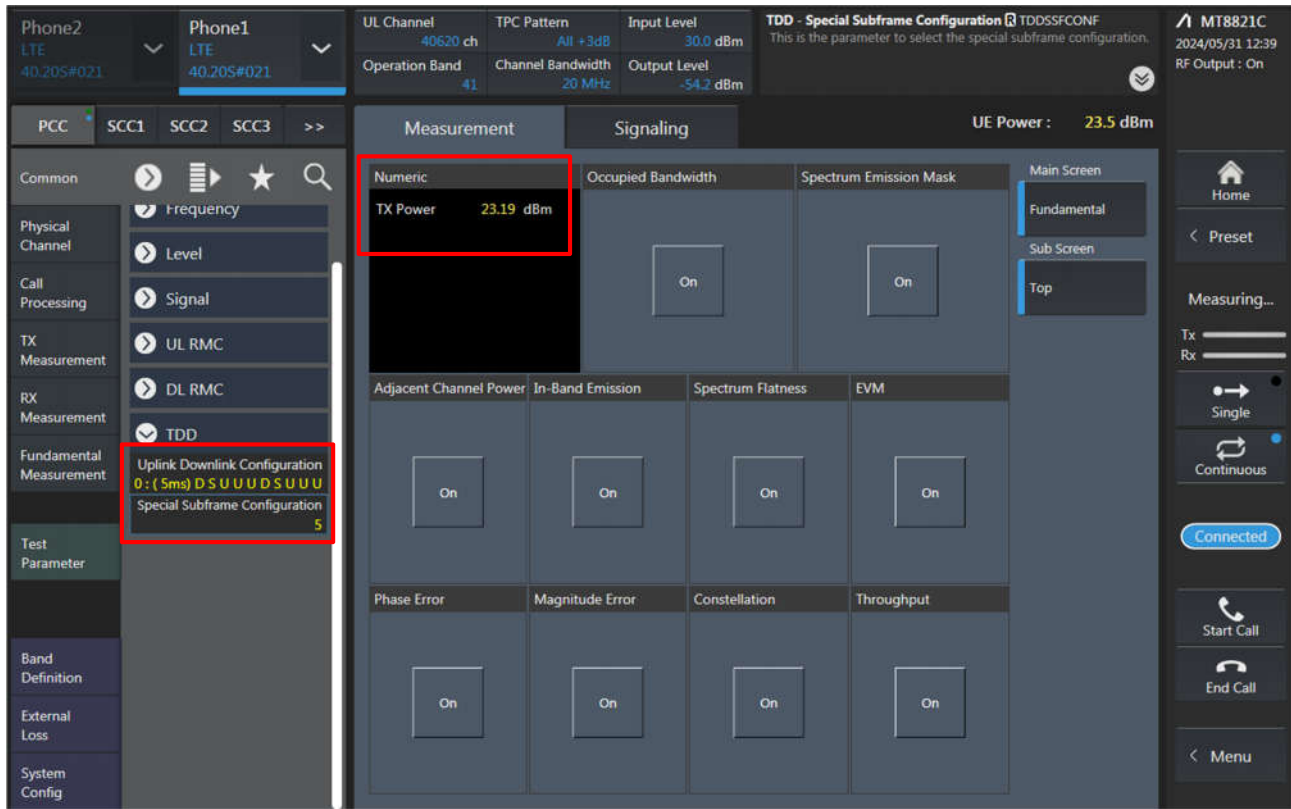
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.205#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing various parameters. A red box highlights the 'UL Channel' (9400 CH), 'UL Frequency' (1 880.000 000 MHz), 'Input Level' (35.0 dBm), 'DL Channel' (9800 CH), 'DL Frequency' (1 960.000 000 MHz), and 'Output Level' (-65.7 dBm). Another red box highlights the 'Power Measurement' section, showing 'TX Power' (23.28 dBm). The 'Fundamental' section shows 'Frequency Error' (-0.0002 kHz), 'Carrier Frequency Error' (0.00 ppm), 'Occupied Bandwidth' (4.163 MHz), 'Spectrum Emission Mask' (Pass), 'Adjacent Channel Power' (-40.24 dB, -42.79 dB), 'Modulation Analysis' (5.15 %/rms), and 'Peak Code Domain Error' (-39.86 dB). The 'External Loss' section shows 'Power Control' (All 1). The 'System Config' section shows 'User Command' (10101 01010 10101 01010 10101 01010).

<LTE>



The screenshot shows the LTE measurement interface. The top bar displays 'Phone2 LTE 40.205#021' and 'Phone1 LTE 40.205#021'. The 'Measurement' tab is active, showing various parameters. A red box highlights the 'TX Power' (23.01 dBm). The 'Occupied Bandwidth' and 'Spectrum Emission Mask' sections show 'On' buttons. The 'Adjacent Channel Power', 'In-Band Emission', 'Spectrum Flatness', and 'EVM' sections show 'On' buttons. The 'Phase Error', 'Magnitude Error', 'Constellation', and 'Throughput' sections show 'On' buttons. The 'Uplink Downlink Configuration' section shows '1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration' (4). The 'External Loss - Main DL' section shows 'DLEXTLOSS' and a description: '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.'

<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 TDDSSFCOEF This is the parameter to select the special subframe configuration.

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

MT8821C 2024/05/31 12:39 RF Output : On

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

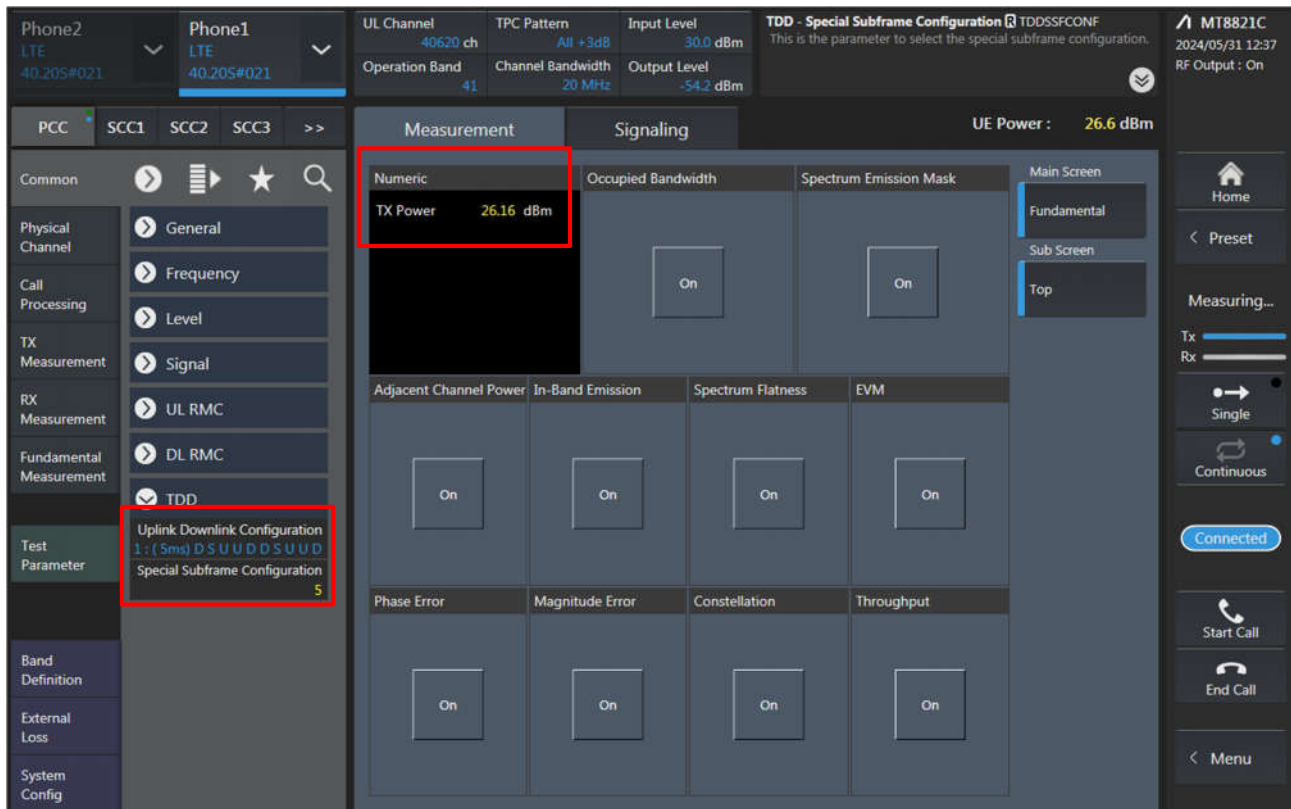
Uplink Downlink Configuration 0: (5ms) D S U U U D S U U U Special Subframe Configuration 5

Common 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 TDDSSFCOEF This is the parameter to select the special subframe configuration.

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

MT8821C 2024/05/31 12:37 RF Output : On

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

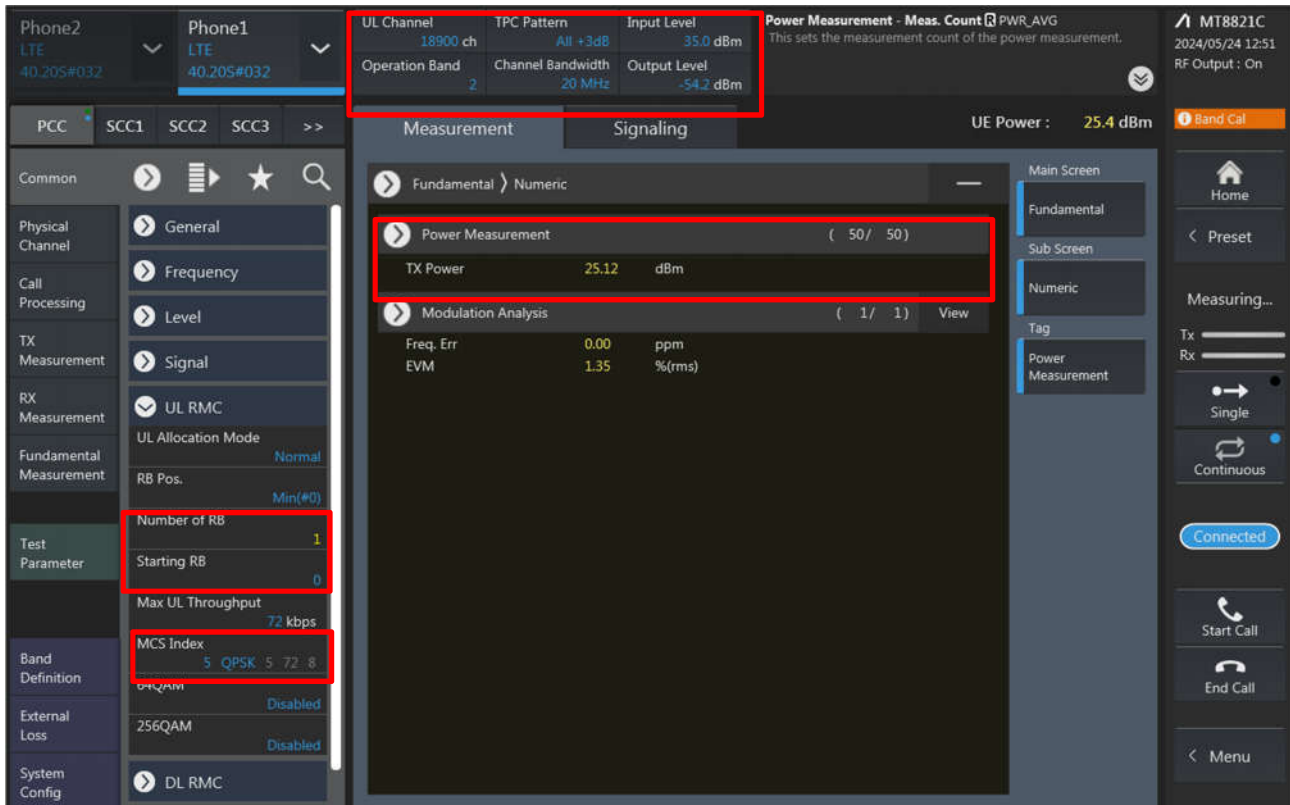
On On On On

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

Common 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

UE Power : 25.4 dBm

Measurement 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)

Test Parameter

Number of RB 1

Starting RB 0

Max UL Throughput 72 kbps

MCS Index 5 QPSK 5 72 8

Band Definition 256QAM Disabled

External Loss Disabled

System Config DL RMC

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

Home

Preset

Measuring...

Tx

Rx

Single

Continuous

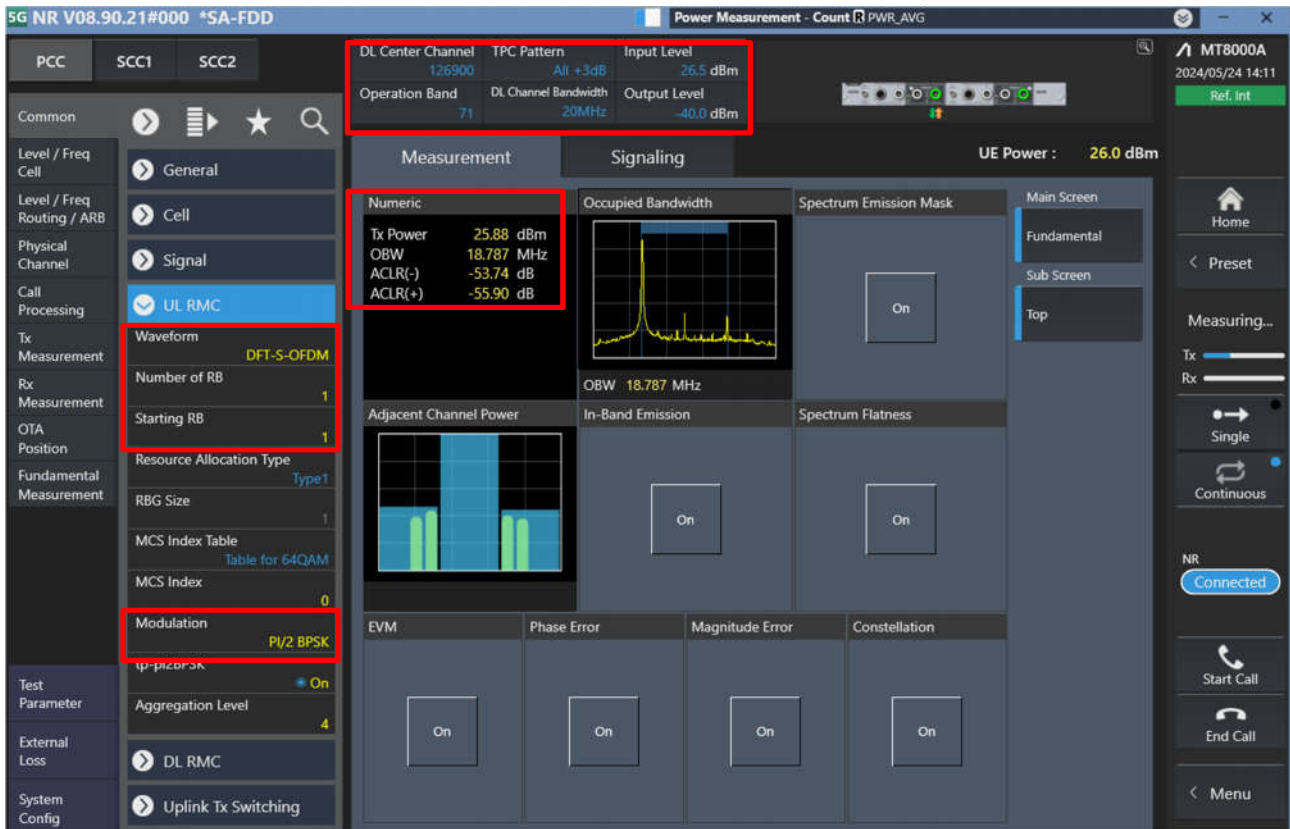
Connected

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

UE Power : 26.0 dBm

Measurement Numeric

Tx Power 25.88 dBm

OBW 18.787 MHz

ACL(-) -53.74 dB

ACL(+) -55.90 dB

Occupied Bandwidth OBW 18.787 MHz

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

Test Parameter

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

Aggregation Level 4

DL RMC

Uplink Tx Switching

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

Home

Preset

Measuring...

Tx

Rx

Single

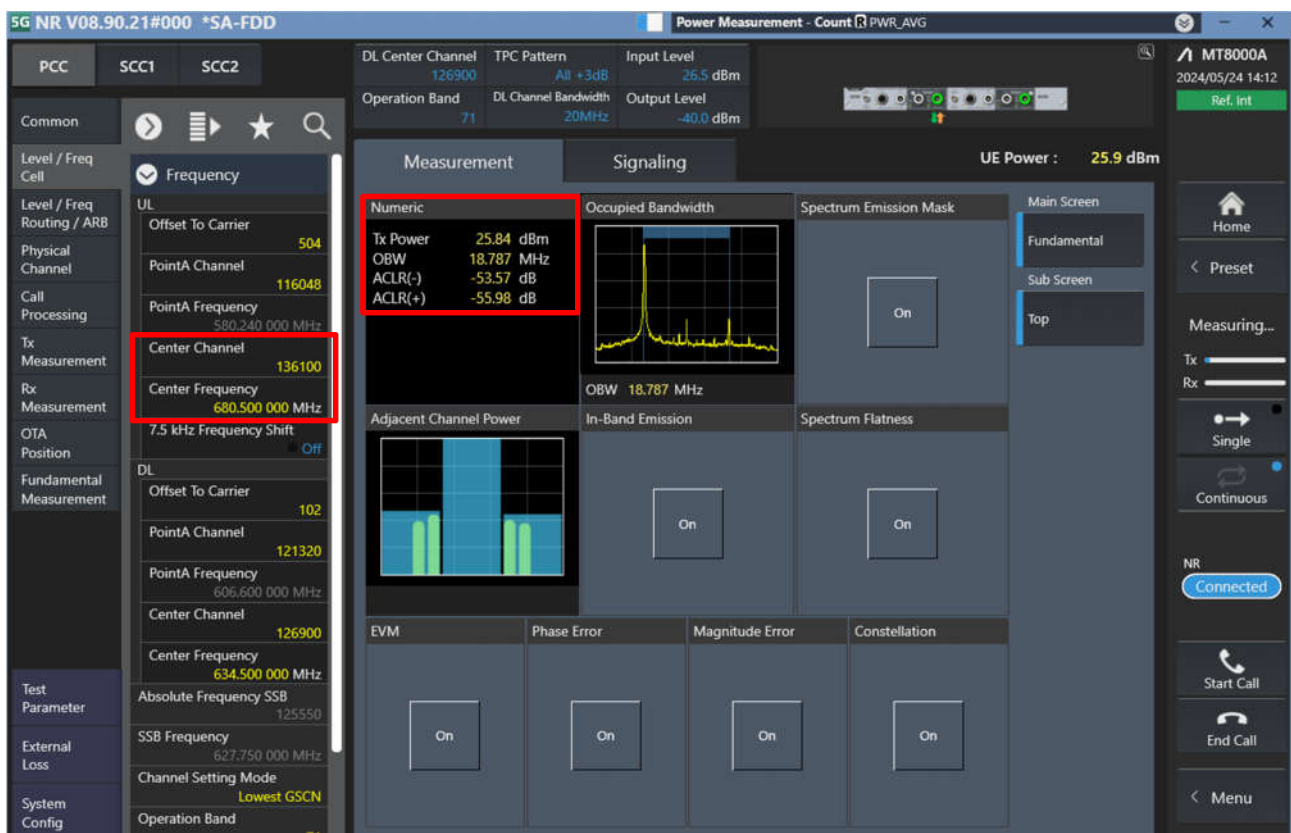
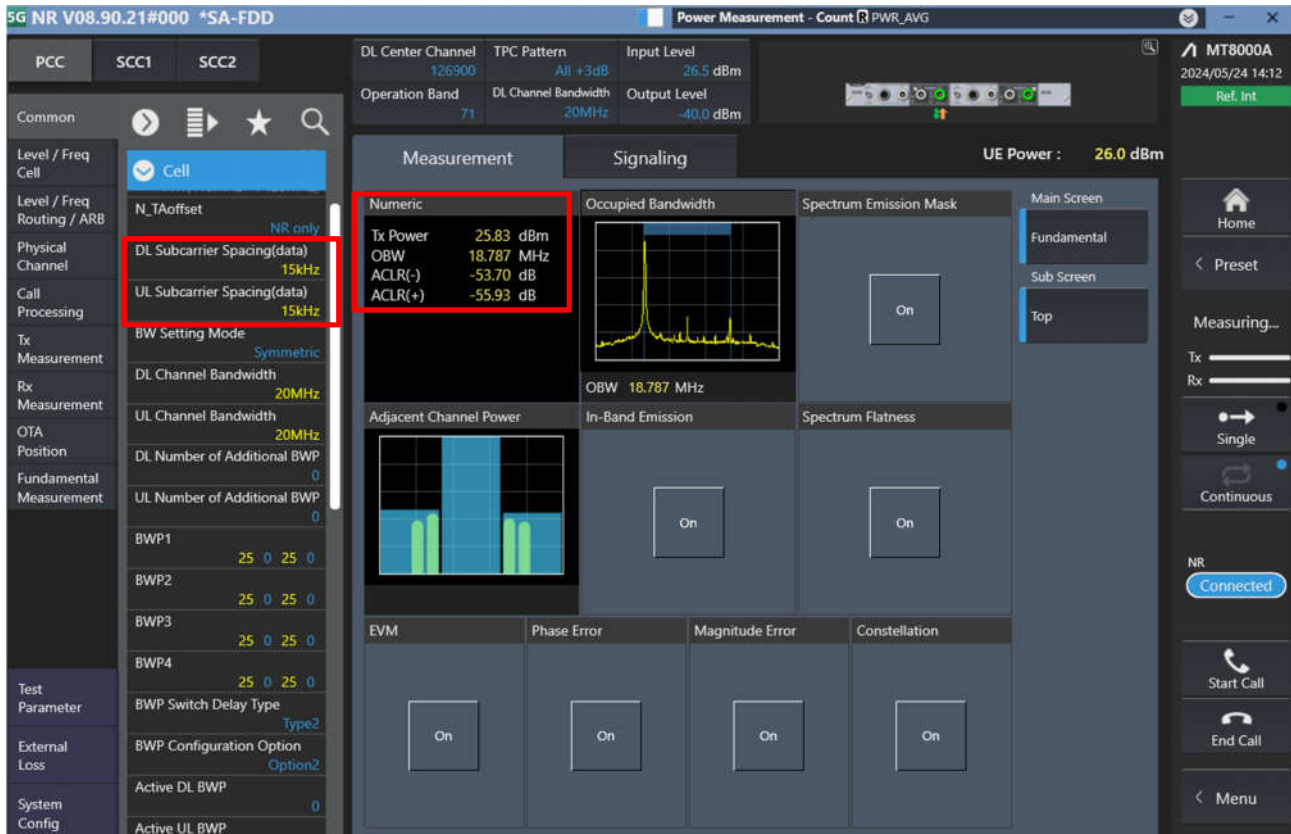
Continuous

Connected

Start Call

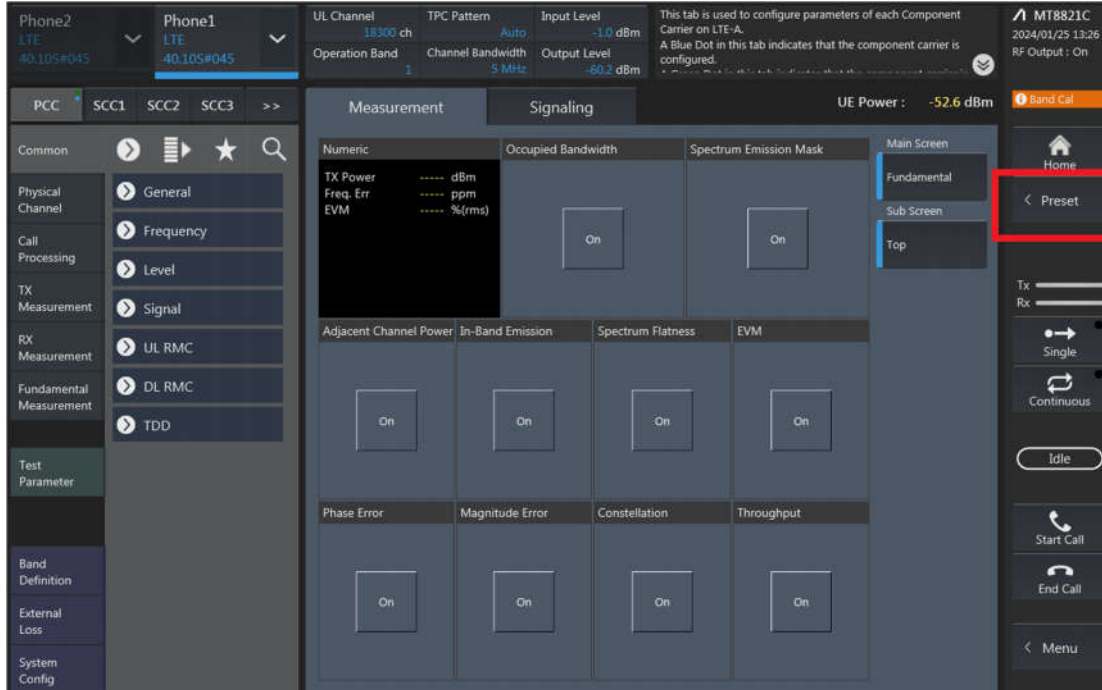
End Call

Menu



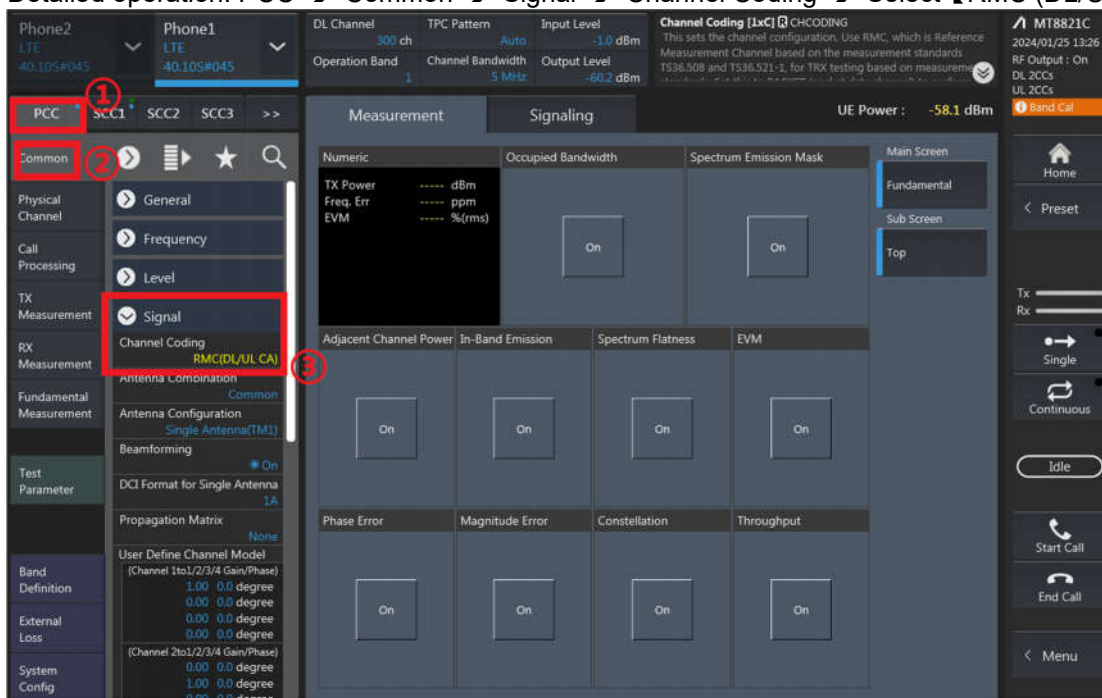
LTE Uplink and Downlink Carrier Aggregation configurations:

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

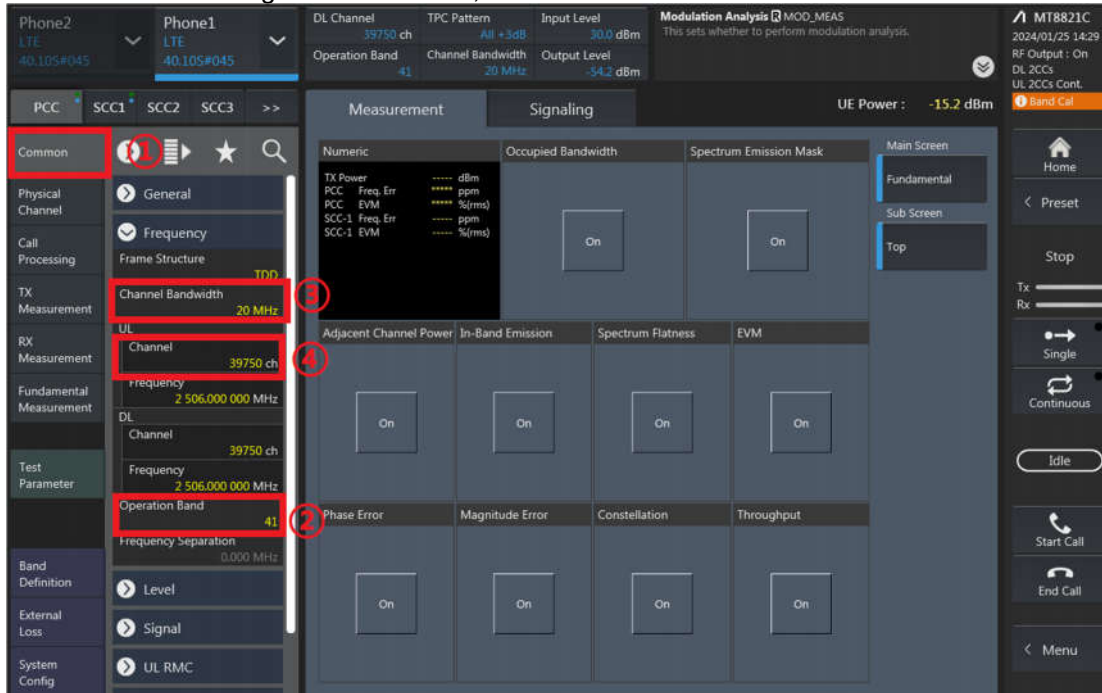


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

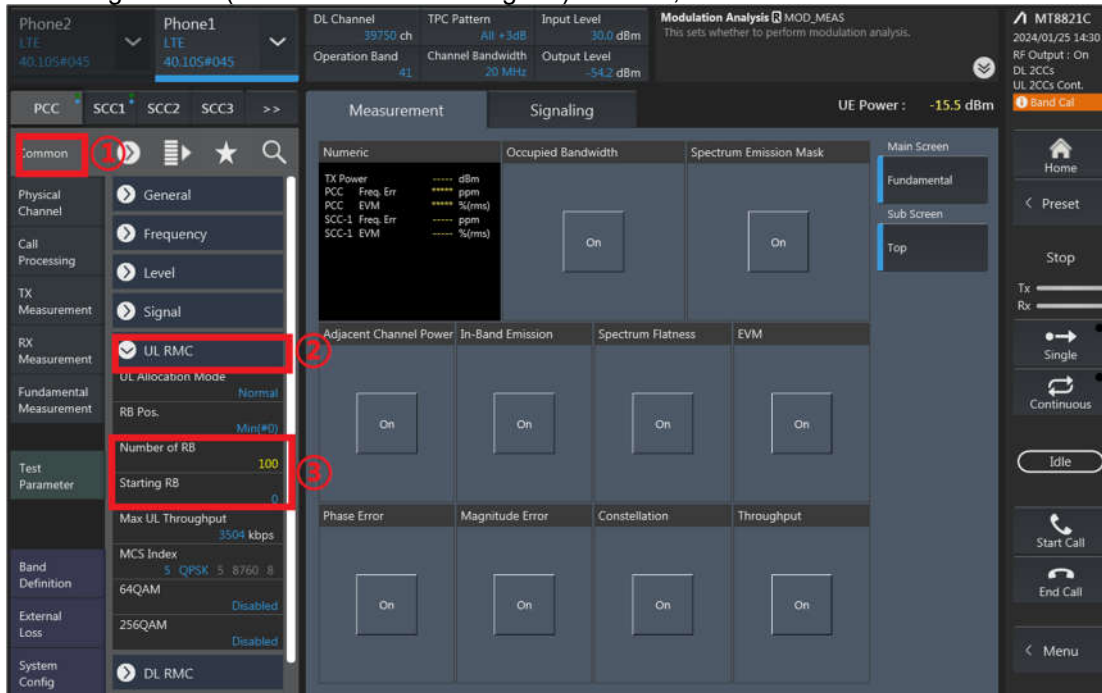
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



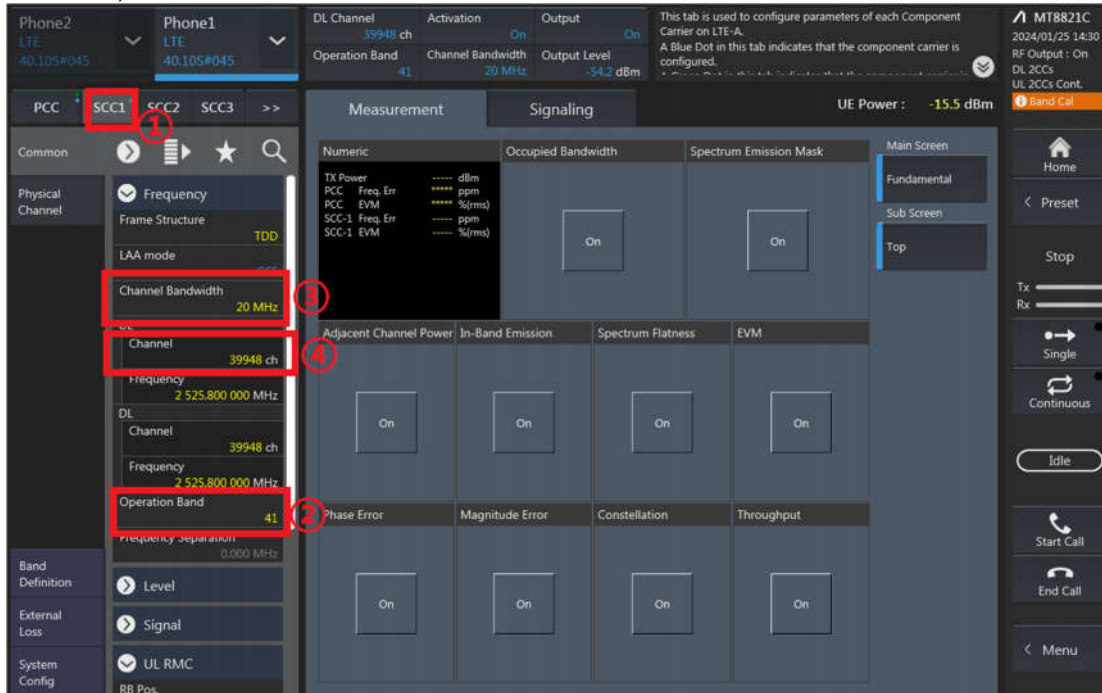
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



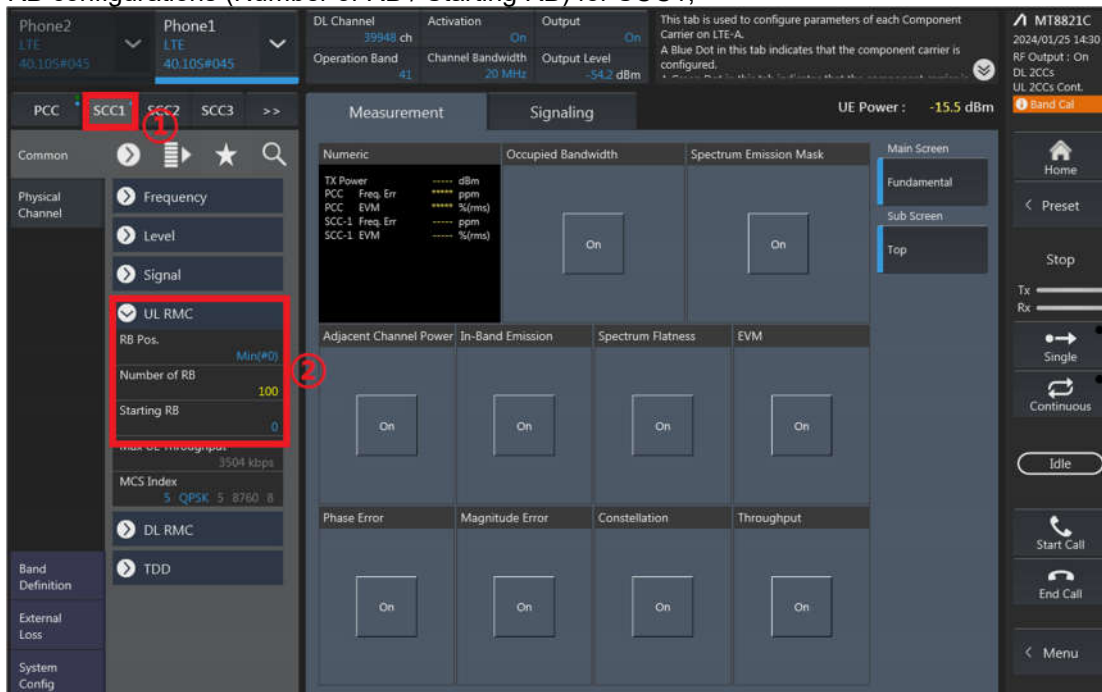
RB configurations (Number of RB / Starting RB) for PCC;



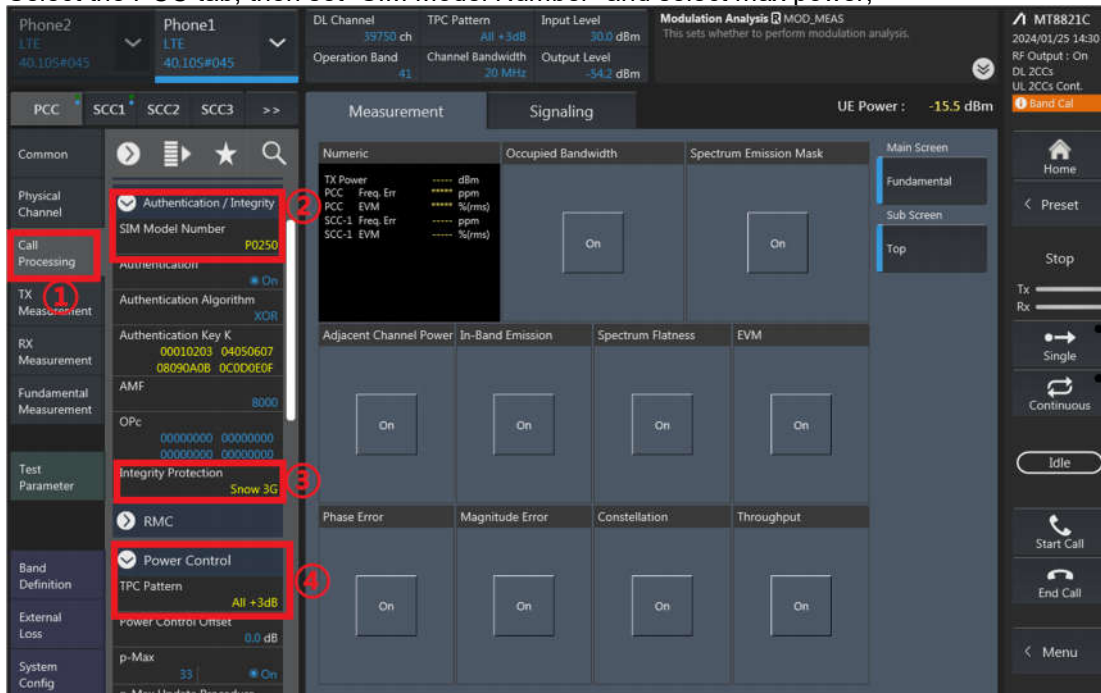
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



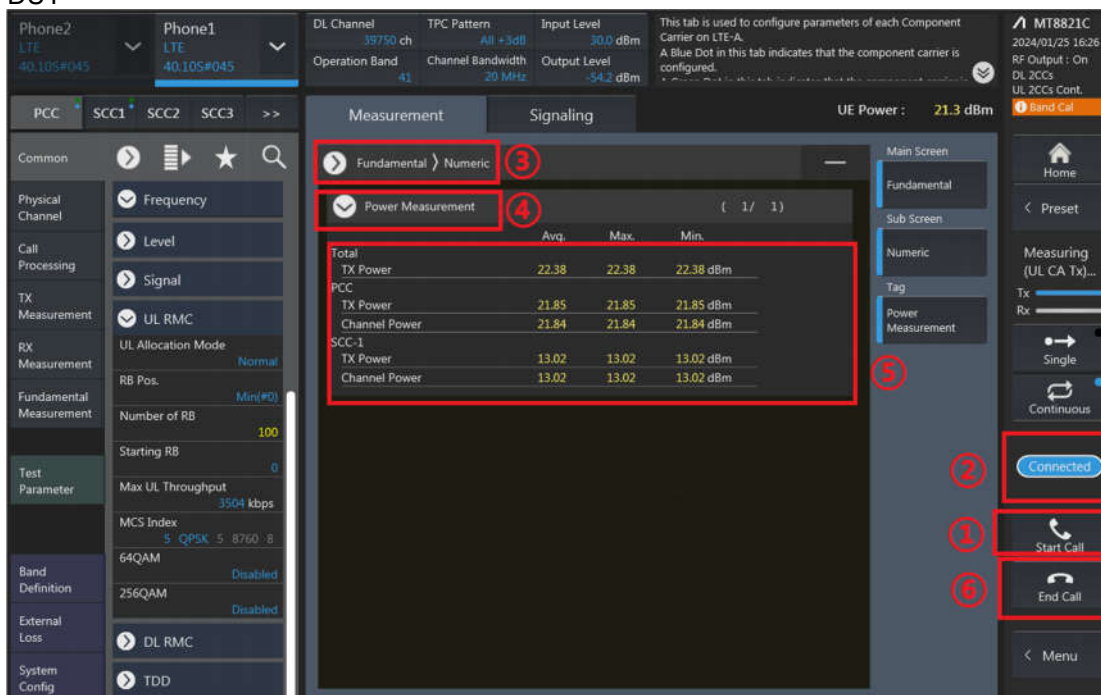
RB configurations (Number of RB / Starting RB) for SCC1;



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.

UL CA Power

CA_7C_Ant 4											
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	Default	23.32	23.80
21100	21298	QPSK	1	0	0	0	1	0	Default	23.45	23.80
21350	21152	QPSK	1	0	0	0	1	0	Default	23.44	23.80
20850	21048	QPSK	1	0	0	0	1	0	DSI 4	18.52	19.50
21100	21298	QPSK	1	0	0	0	1	0	DSI 4	18.64	19.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 4	18.63	19.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 5	16.47	17.50
21100	21298	QPSK	1	0	0	0	1	0	DSI 5	16.62	17.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 5	16.58	17.50

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	Default	21.64	21.80
21100	21298	QPSK	1	0	0	0	1	0	Default	21.77	21.80
21350	21152	QPSK	1	0	0	0	1	0	Default	21.74	21.80
20850	21048	QPSK	1	0	0	0	1	0	DSI 4	19.66	20.00
21100	21298	QPSK	1	0	0	0	1	0	DSI 4	19.81	20.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 4	19.75	20.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 5	17.09	17.50
21100	21298	QPSK	1	0	0	0	1	0	DSI 5	17.23	17.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 5	17.09	17.50

CA_12B_Ant 1											
Combination 5MHz+10MHz (25RB+50RB)											
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					
23038	23110	QPSK	1	0	0	0	1	0	Default	23.67	23.80
23048	23120	QPSK	1	0	0	0	1	0	Default	23.68	23.80
23058	23130	QPSK	1	0	0	0	1	0	Default	23.65	23.80
23038	23110	QPSK	1	0	0	0	1	0	DSI 4	23.67	23.80
23048	23120	QPSK	1	0	0	0	1	0	DSI 4	23.68	23.80
23058	23130	QPSK	1	0	0	0	1	0	DSI 4	23.65	23.80
23038	23110	QPSK	1	0	0	0	1	0	DSI 5	23.67	23.80
23048	23120	QPSK	1	0	0	0	1	0	DSI 5	23.68	23.80
23058	23130	QPSK	1	0	0	0	1	0	DSI 5	23.65	23.80

CA_12B_Ant 0											
Combination 5MHz+10MHz (25RB+50RB)											
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					
23038	23110	QPSK	1	0	0	0	1	0	Default	22.61	22.90
23048	23120	QPSK	1	0	0	0	1	0	Default	22.71	22.90
23058	23130	QPSK	1	0	0	0	1	0	Default	22.68	22.90
23038	23110	QPSK	1	0	0	0	1	0	DSI 4	22.61	22.90
23048	23120	QPSK	1	0	0	0	1	0	DSI 4	22.71	22.90
23058	23130	QPSK	1	0	0	0	1	0	DSI 4	22.68	22.90
23038	23110	QPSK	1	0	0	0	1	0	DSI 5	22.61	22.90
23048	23120	QPSK	1	0	0	0	1	0	DSI 5	22.71	22.90
23058	23130	QPSK	1	0	0	0	1	0	DSI 5	22.68	22.90

CA_66B_Ant 4											
Combination 15MHz+5MHz (75RB+25RB)											
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					
132047	132140	QPSK	1	0	0	0	1	0	Default	24.36	25.00
132322	132415	QPSK	1	0	0	0	1	0	Default	24.42	25.00
132597	132504	QPSK	1	0	0	0	1	0	Default	24.30	25.00
132047	132140	QPSK	1	0	0	0	1	0	DSI 4	19.58	20.50
132322	132415	QPSK	1	0	0	0	1	0	DSI 4	19.65	20.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 4	19.57	20.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 5	17.48	18.50
132322	132415	QPSK	1	0	0	0	1	0	DSI 5	17.59	18.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 5	17.58	18.50

CA_66B_Ant 6											
Combination 15MHz+5MHz (75RB+25RB)											
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					
132047	132140	QPSK	1	0	0	0	1	0	Default	22.76	23.50
132322	132415	QPSK	1	0	0	0	1	0	Default	22.91	23.50
132597	132504	QPSK	1	0	0	0	1	0	Default	22.87	23.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 4	18.60	19.50
132322	132415	QPSK	1	0	0	0	1	0	DSI 4	18.70	19.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 4	18.67	19.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 5	15.71	16.50
132322	132415	QPSK	1	0	0	0	1	0	DSI 5	15.72	16.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 5	15.64	16.50

CA_66C_Ant 4											
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					
132072	132270	QPSK	1	0	0	0	1	0	Default	23.20	23.80
132322	132520	QPSK	1	0	0	0	1	0	Default	23.31	23.80
132572	132374	QPSK	1	0	0	0	1	0	Default	23.30	23.80
132072	132270	QPSK	1	0	0	0	1	0	DSI 4	19.58	20.50
132322	132520	QPSK	1	0	0	0	1	0	DSI 4	19.73	20.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 4	19.59	20.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 5	17.60	18.50
132322	132520	QPSK	1	0	0	0	1	0	DSI 5	17.66	18.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 5	17.56	18.50

CA_66C_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					
132072	132270	QPSK	1	0	0	0	1	0	Default	21.58	22.30
132322	132520	QPSK	1	0	0	0	1	0	Default	21.60	22.30
132572	132374	QPSK	1	0	0	0	1	0	Default	21.55	22.30
132072	132270	QPSK	1	0	0	0	1	0	DSI 4	18.64	19.50
132322	132520	QPSK	1	0	0	0	1	0	DSI 4	18.71	19.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 4	18.64	19.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 5	15.59	16.50
132322	132520	QPSK	1	0	0	0	1	0	DSI 5	15.69	16.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 5	15.65	16.50

CA_38C_Ant 4											
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	Default	23.22	23.80
37901	38099	QPSK	1	0	0	0	1	0	Default	23.25	23.80
38150	37952	QPSK	1	0	0	0	1	0	Default	23.12	23.80
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	19.81	20.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	19.83	20.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	19.78	20.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 5	18.78	19.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 5	18.86	19.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 5	18.78	19.50

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	Default	21.45	21.80
37901	38099	QPSK	1	0	0	0	1	0	Default	21.56	21.80
38150	37952	QPSK	1	0	0	0	1	0	Default	21.52	21.80
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	20.56	21.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	20.69	21.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	20.54	21.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 5	19.12	19.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 5	19.23	19.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 5	19.16	19.50

CA_41C_Ant 4											
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					
39750	39948	QPSK	1	0	0	0	1	0	Default	25.12	25.50
40185	40383	QPSK	1	0	0	0	1	0	Default	25.12	25.50
40620	40818	QPSK	1	0	0	0	1	0	Default	25.21	25.50
41055	41253	QPSK	1	0	0	0	1	0	Default	25.10	25.50
41490	41292	QPSK	1	0	0	0	1	0	Default	25.16	25.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	16.62	17.20
40185	40383	QPSK	1	0	0	0	1	0	DSI 4	16.66	17.20
40620	40818	QPSK	1	0	0	0	1	0	DSI 4	16.75	17.20
41055	41253	QPSK	1	0	0	0	1	0	DSI 4	16.63	17.20
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	16.60	17.20
39750	39948	QPSK	1	0	0	0	1	0	DSI 5	17.19	17.70
40185	40383	QPSK	1	0	0	0	1	0	DSI 5	17.15	17.70
40620	40818	QPSK	1	0	0	0	1	0	DSI 5	17.22	17.70
41055	41253	QPSK	1	0	0	0	1	0	DSI 5	17.17	17.70
41490	41292	QPSK	1	0	0	0	1	0	DSI 5	17.09	17.70

CA_41C_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					
39750	39948	QPSK	1	0	0	0	1	0	Default	23.65	24.20
40185	40383	QPSK	1	0	0	0	1	0	Default	23.66	24.20
40620	40818	QPSK	1	0	0	0	1	0	Default	23.79	24.20
41055	41253	QPSK	1	0	0	0	1	0	Default	23.75	24.20
41490	41292	QPSK	1	0	0	0	1	0	Default	23.69	24.20
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	19.37	19.70
40185	40383	QPSK	1	0	0	0	1	0	DSI 4	19.24	19.70
40620	40818	QPSK	1	0	0	0	1	0	DSI 4	19.39	19.70
41055	41253	QPSK	1	0	0	0	1	0	DSI 4	19.34	19.70
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	19.24	19.70
39750	39948	QPSK	1	0	0	0	1	0	DSI 5	17.08	17.20
40185	40383	QPSK	1	0	0	0	1	0	DSI 5	17.05	17.20
40620	40818	QPSK	1	0	0	0	1	0	DSI 5	17.11	17.20
41055	41253	QPSK	1	0	0	0	1	0	DSI 5	17.00	17.20
41490	41292	QPSK	1	0	0	0	1	0	DSI 5	17.01	17.20

CA_n41C_Ant 4											
Combination 100MHz+90MHz											
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					
509202	528186	QPSK	144	129	108	0	252	≤0	Default	24.19	25.20
509598	528582	QPSK	144	129	108	0	252	≤0	Default	24.26	25.20
510012	528996	QPSK	144	129	108	0	252	≤0	Default	24.09	25.20
509202	528186	QPSK	144	129	108	0	252	≤0	DSI 4	16.22	17.70
509598	528582	QPSK	144	129	108	0	252	≤0	DSI 4	16.40	17.70
510012	528996	QPSK	144	129	108	0	252	≤0	DSI 4	16.21	17.70
509202	528186	QPSK	144	129	108	0	252	≤0	DSI 5	15.76	17.20
509598	528582	QPSK	144	129	108	0	252	≤0	DSI 5	15.90	17.20
510012	528996	QPSK	144	129	108	0	252	≤0	DSI 5	15.70	17.20

CA_n41C_Ant 6											
Combination 100MHz+90MHz											
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					
509202	528186	QPSK	144	129	108	0	252	≤0	Default	21.70	23.20
509598	528582	QPSK	144	129	108	0	252	≤0	Default	22.21	23.20
510012	528996	QPSK	144	129	108	0	252	≤0	Default	22.15	23.20
509202	528186	QPSK	144	129	108	0	252	≤0	DSI 4	15.69	17.20
509598	528582	QPSK	144	129	108	0	252	≤0	DSI 4	16.26	17.20
510012	528996	QPSK	144	129	108	0	252	≤0	DSI 4	16.15	17.20
509202	528186	QPSK	144	129	108	0	252	≤0	DSI 5	14.69	16.20
509598	528582	QPSK	144	129	108	0	252	≤0	DSI 5	15.19	16.20
510012	528996	QPSK	144	129	108	0	252	≤0	DSI 5	15.14	16.20

CA_n77C Part270_Ant 9											
Combination 100MHz+100MHz											
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					
650000	656664	QPSK	135	138	135	0	270	≤0	Default	23.97	25.20
652668	659332	QPSK	135	138	135	0	270	≤0	Default	23.51	25.20
655336	662000	QPSK	135	138	135	0	270	≤0	Default	23.34	25.20
650000	656664	QPSK	135	138	135	0	270	≤0	DSI 4	17.98	19.20
652668	659332	QPSK	135	138	135	0	270	≤0	DSI 4	17.42	19.20
655336	662000	QPSK	135	138	135	0	270	≤0	DSI 4	17.29	19.20
650000	656664	QPSK	135	138	135	0	270	≤0	DSI 5	15.38	16.70
652668	659332	QPSK	135	138	135	0	270	≤0	DSI 5	14.94	16.70
655336	662000	QPSK	135	138	135	0	270	≤0	DSI 5	14.82	16.70

CA_n77C Part270_Ant 8											
Combination 100MHz+100MHz											
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					
650000	656664	QPSK	135	138	135	0	270	≤0	Default	21.90	23.80
652668	659332	QPSK	135	138	135	0	270	≤0	Default	22.08	23.80
655336	662000	QPSK	135	138	135	0	270	≤0	Default	21.93	23.80
650000	656664	QPSK	135	138	135	0	270	≤0	DSI 4	17.31	19.30
652668	659332	QPSK	135	138	135	0	270	≤0	DSI 4	17.63	19.30
655336	662000	QPSK	135	138	135	0	270	≤0	DSI 4	17.46	19.30
650000	656664	QPSK	135	138	135	0	270	≤0	DSI 5	15.54	17.30
652668	659332	QPSK	135	138	135	0	270	≤0	DSI 5	15.60	17.30
655336	662000	QPSK	135	138	135	0	270	≤0	DSI 5	15.38	17.30

CA n77C Part270_Ant 10											
Combination 100MHz+100MHz											
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					
650000	656664	QPSK	135	138	135	0	270	≤0	Default	19.34	21.00
652668	659332	QPSK	135	138	135	0	270	≤0	Default	19.72	21.00
655336	662000	QPSK	135	138	135	0	270	≤0	Default	19.35	21.00
650000	656664	QPSK	135	138	135	0	270	≤0	DSI 4	14.78	16.50
652668	659332	QPSK	135	138	135	0	270	≤0	DSI 4	15.17	16.50
655336	662000	QPSK	135	138	135	0	270	≤0	DSI 4	14.86	16.50
650000	656664	QPSK	135	138	135	0	270	≤0	DSI 5	12.84	14.50
652668	659332	QPSK	135	138	135	0	270	≤0	DSI 5	13.22	14.50
655336	662000	QPSK	135	138	135	0	270	≤0	DSI 5	12.81	14.50

CA_n77C Part270_Ant 4											
Combination 100MHz+100MHz											
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					
650000	656664	QPSK	135	138	135	0	270	≤0	Default	18.43	20.20
652668	659332	QPSK	135	138	135	0	270	≤0	Default	18.70	20.20
655336	662000	QPSK	135	138	135	0	270	≤0	Default	18.48	20.20
650000	656664	QPSK	135	138	135	0	270	≤0	DSI 4	16.37	18.20
652668	659332	QPSK	135	138	135	0	270	≤0	DSI 4	16.66	18.20
655336	662000	QPSK	135	138	135	0	270	≤0	DSI 4	16.50	18.20
650000	656664	QPSK	135	138	135	0	270	≤0	DSI 5	13.44	15.20
652668	659332	QPSK	135	138	135	0	270	≤0	DSI 5	13.74	15.20
655336	662000	QPSK	135	138	135	0	270	≤0	DSI 5	13.44	15.20