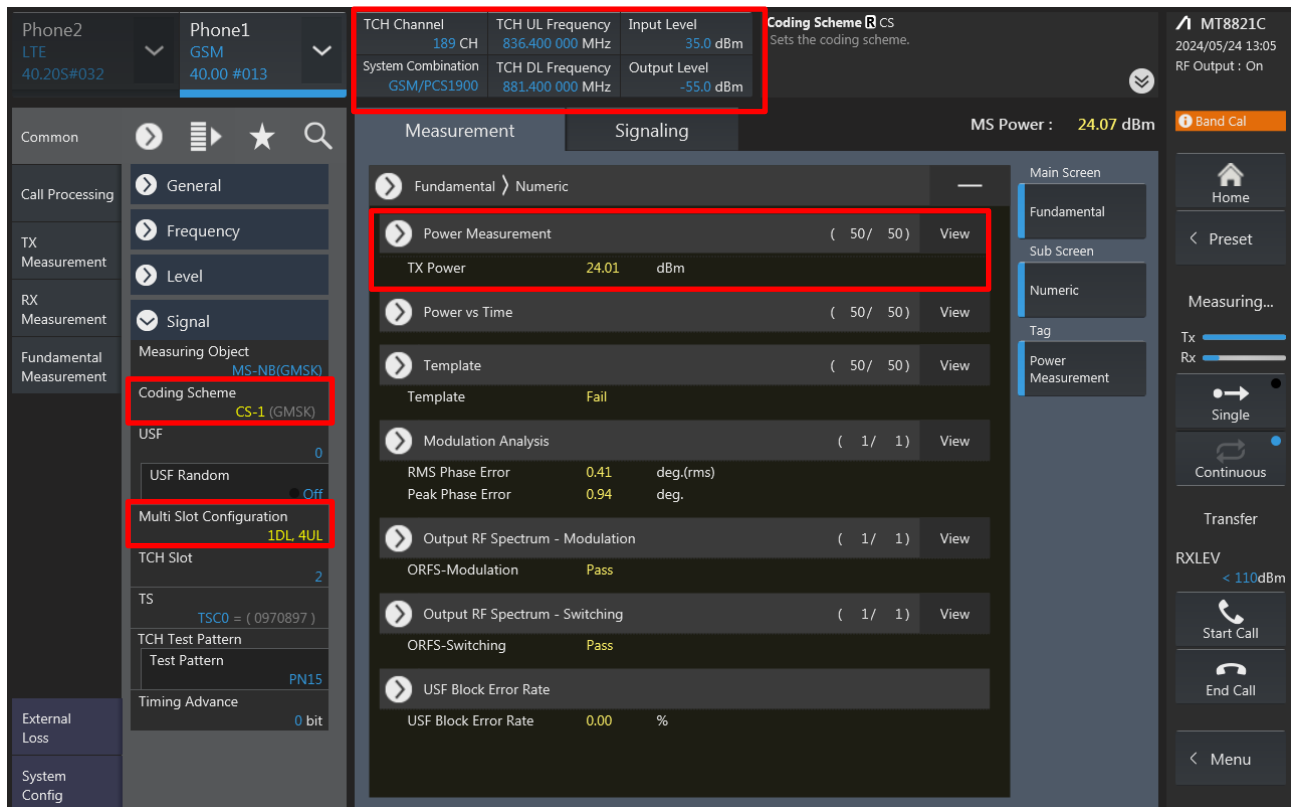


### Power measurement connection diagram:

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>

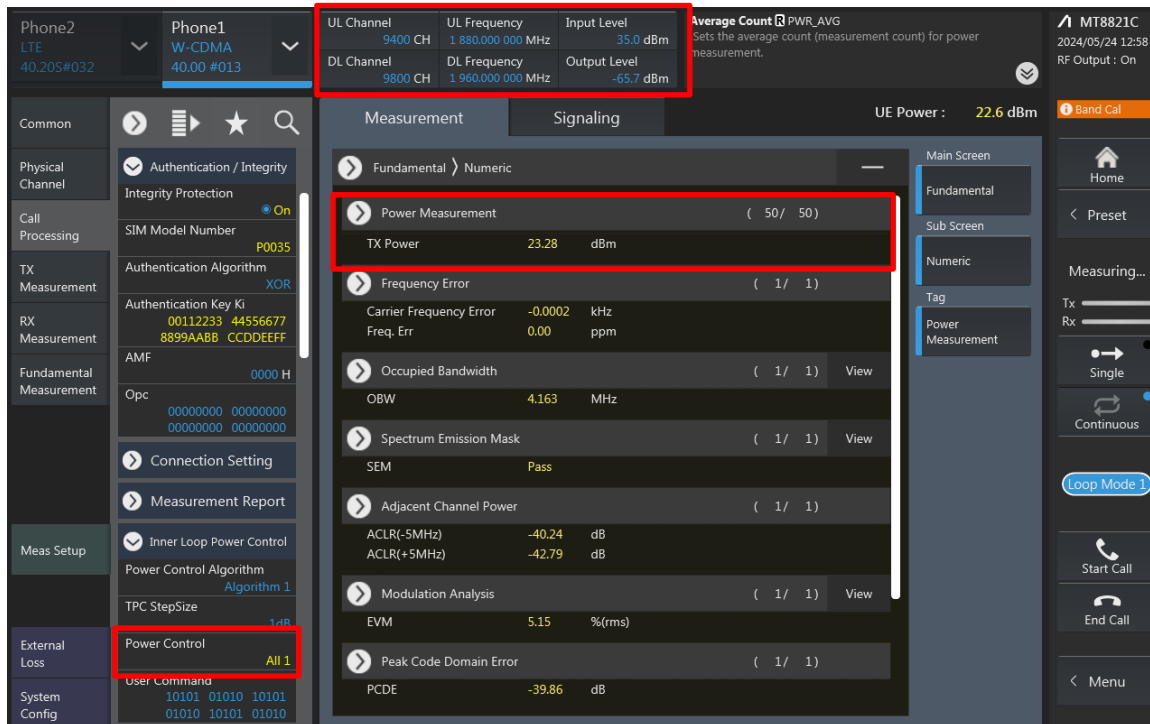


The screenshot displays the SPORTON LAB. software interface for GSM power measurement. The interface is divided into several sections:

- Top Bar:** Shows Phone2 (LTE, 40.205#032) and Phone1 (GSM, 40.00 #013). A table at the top right provides configuration details:
 

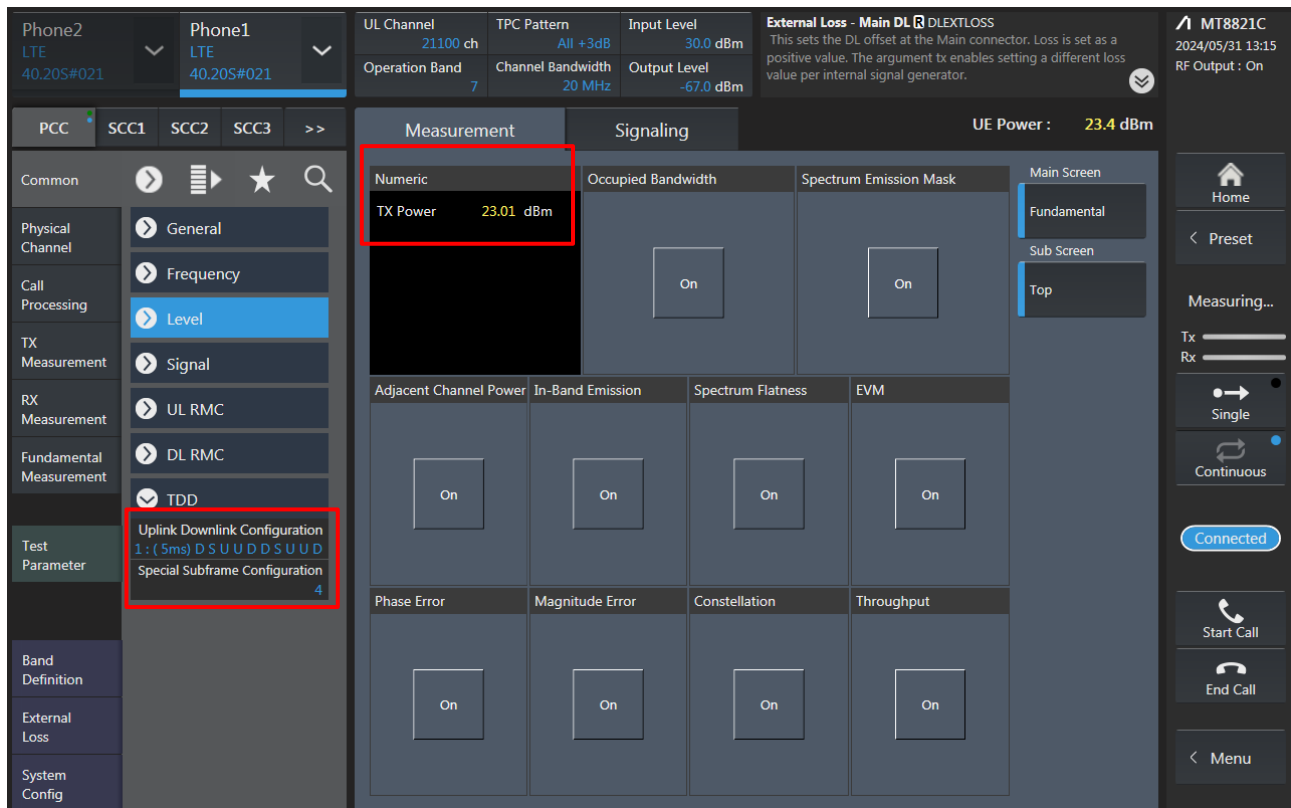
| TCH Channel        | TCH UL Frequency | Input Level  | Coding Scheme |
|--------------------|------------------|--------------|---------------|
| 189 CH             | 836.400 000 MHz  | 35.0 dBm     | CS            |
| System Combination | TCH DL Frequency | Output Level |               |
| GSM/PCS1900        | 881.400 000 MHz  | -55.0 dBm    |               |
- 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' as 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:** Includes a 'Main Screen' section with 'Fundamental', 'Sub Screen', 'Numeric', and 'Tag' options. It also features a 'Band Cal' button and a 'Measuring...' section with 'Single' and 'Continuous' modes. The 'RXLEV' is shown as < 110dBm.

### <WCDMA>



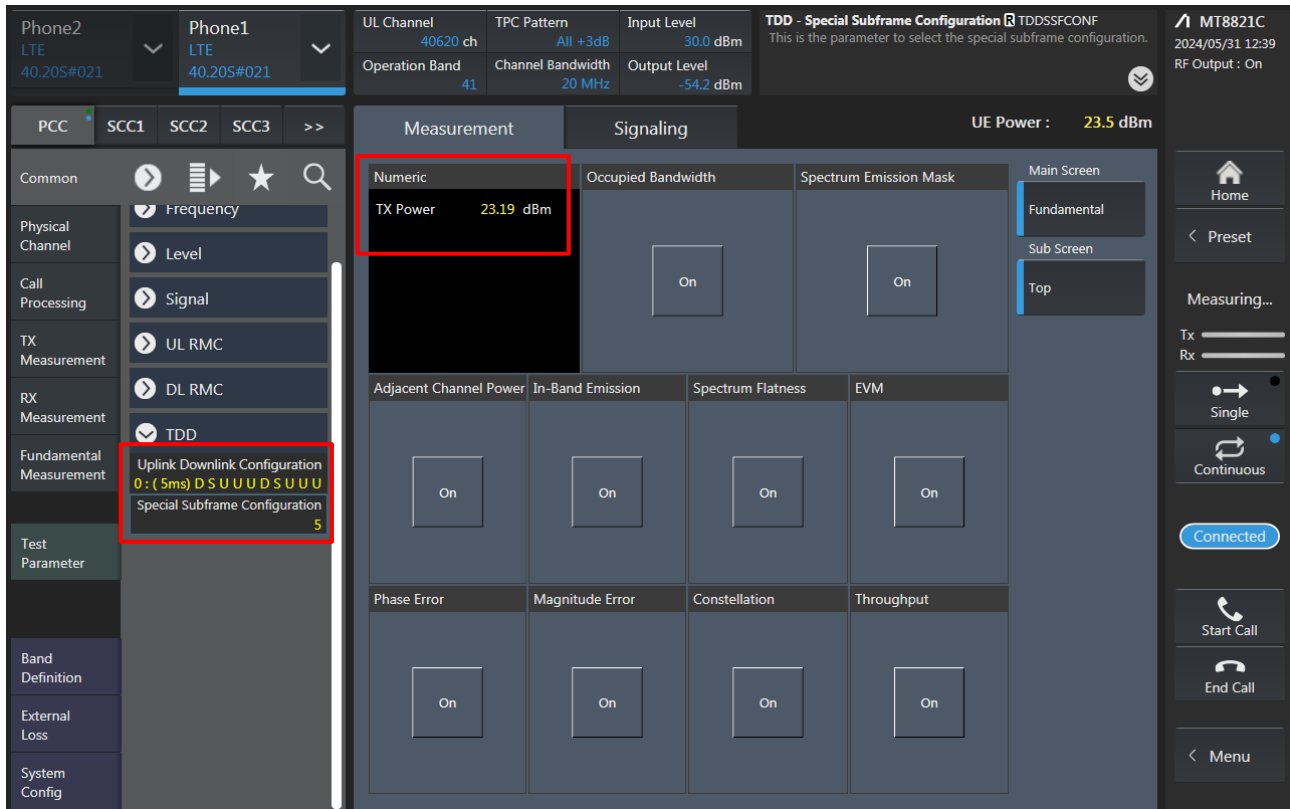
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.20S#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing 'Fundamental' and 'Numeric' views. The 'Power Measurement' section is highlighted with a red box, showing 'TX Power' at 23.28 dBm. The 'Occupied Bandwidth' section shows 'OBW' at 4.163 MHz. The 'Adjacent Channel Power' section shows 'ACLR(-5MHz)' at -40.24 dB and 'ACLR(+5MHz)' at -42.79 dB. The 'Modulation Analysis' section shows 'EVM' at 5.15 % (rms). The 'Peak Code Domain Error' section shows 'PCDE' at -39.86 dB. The 'UE Power' is 22.6 dBm. The 'Band Cal' button is visible on the right. The 'Common' sidebar on the left includes sections for Physical Channel, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, Meas Setup, External Loss, and System Config.

### <LTE>



The screenshot shows the LTE measurement interface. The top bar displays 'Phone2 LTE 40.20S#021' and 'Phone1 LTE 40.20S#021'. The 'Measurement' tab is active, showing 'Numeric' and 'Occupied Bandwidth' views. The 'Power Measurement' section is highlighted with a red box, showing 'TX Power' at 23.01 dBm. The 'Occupied Bandwidth' section shows 'OBW' at 4.163 MHz. The 'Adjacent Channel Power' section shows 'ACLR(-5MHz)' at -40.24 dB and 'ACLR(+5MHz)' at -42.79 dB. The 'Modulation Analysis' section shows 'EVM' at 5.15 % (rms). The 'Peak Code Domain Error' section shows 'PCDE' at -39.86 dB. The 'UE Power' is 23.4 dBm. The 'Band Cal' button is visible on the right. The 'Common' sidebar on the left includes sections for Physical Channel, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, Meas Setup, External Loss, and System Config.

### <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

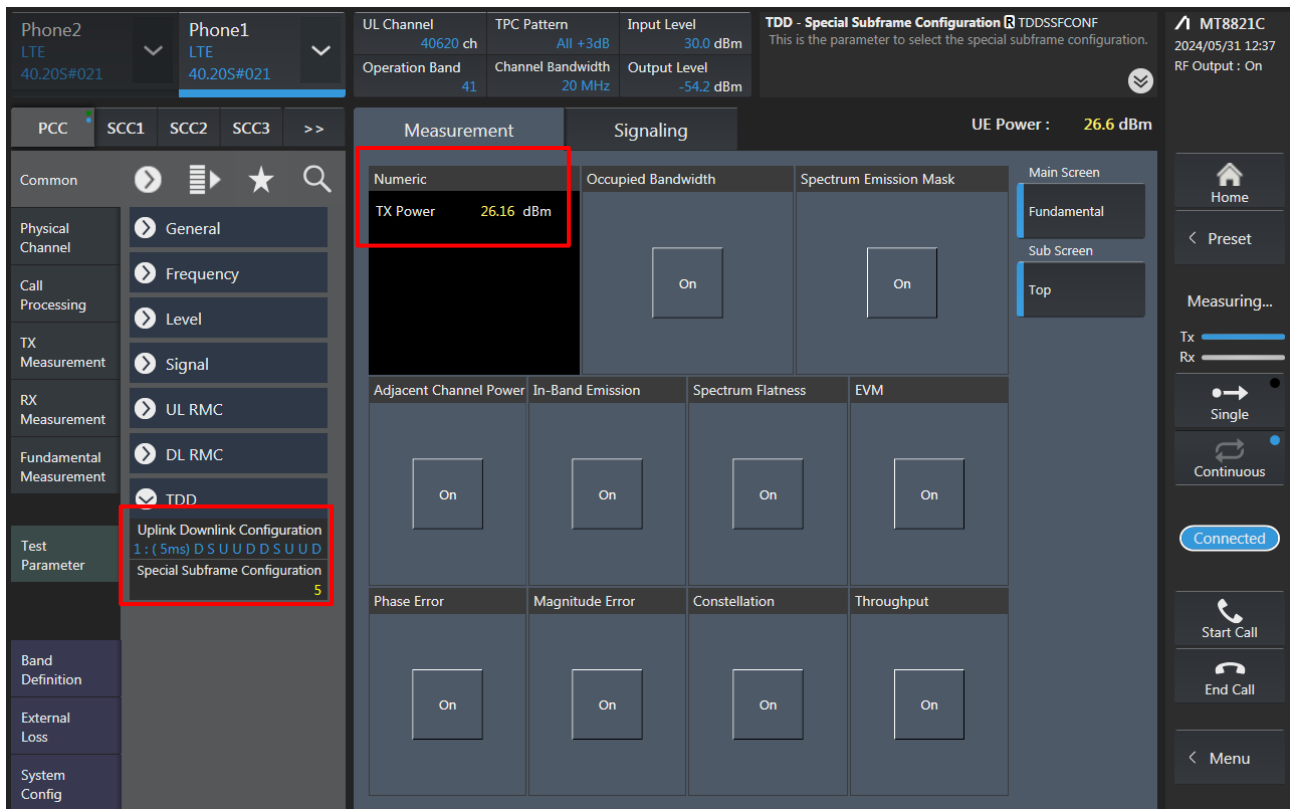
Common Frequency Level Signal UL RMC DL RMC TDD Uplink Downlink Configuration 0 : (5ms) D S U U U D S U U U Special Subframe Configuration 5

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

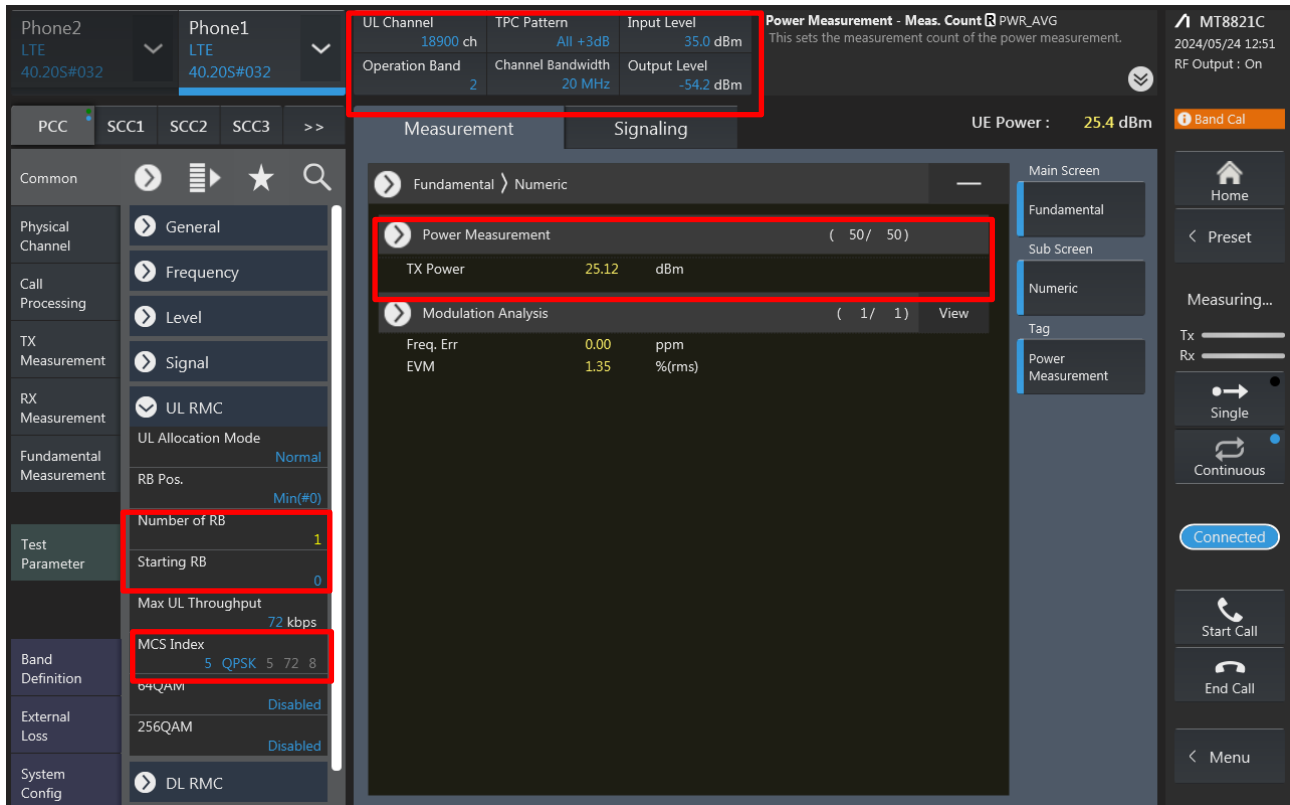
On On On On

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

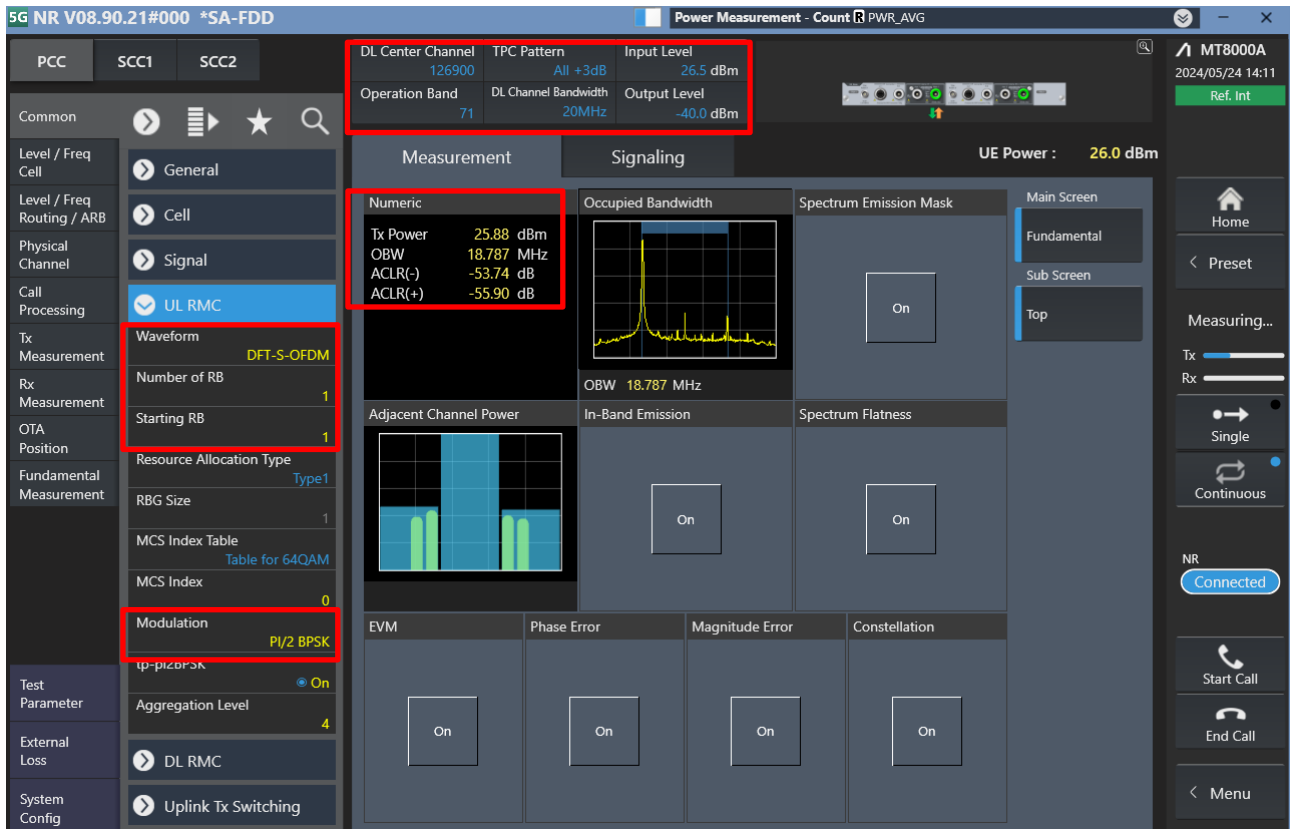
Home Preset Measuring... Tx Rx Single Continuous Connected Start Call End Call Menu



The screenshot displays the LTE test interface with the following configuration and measurement data:

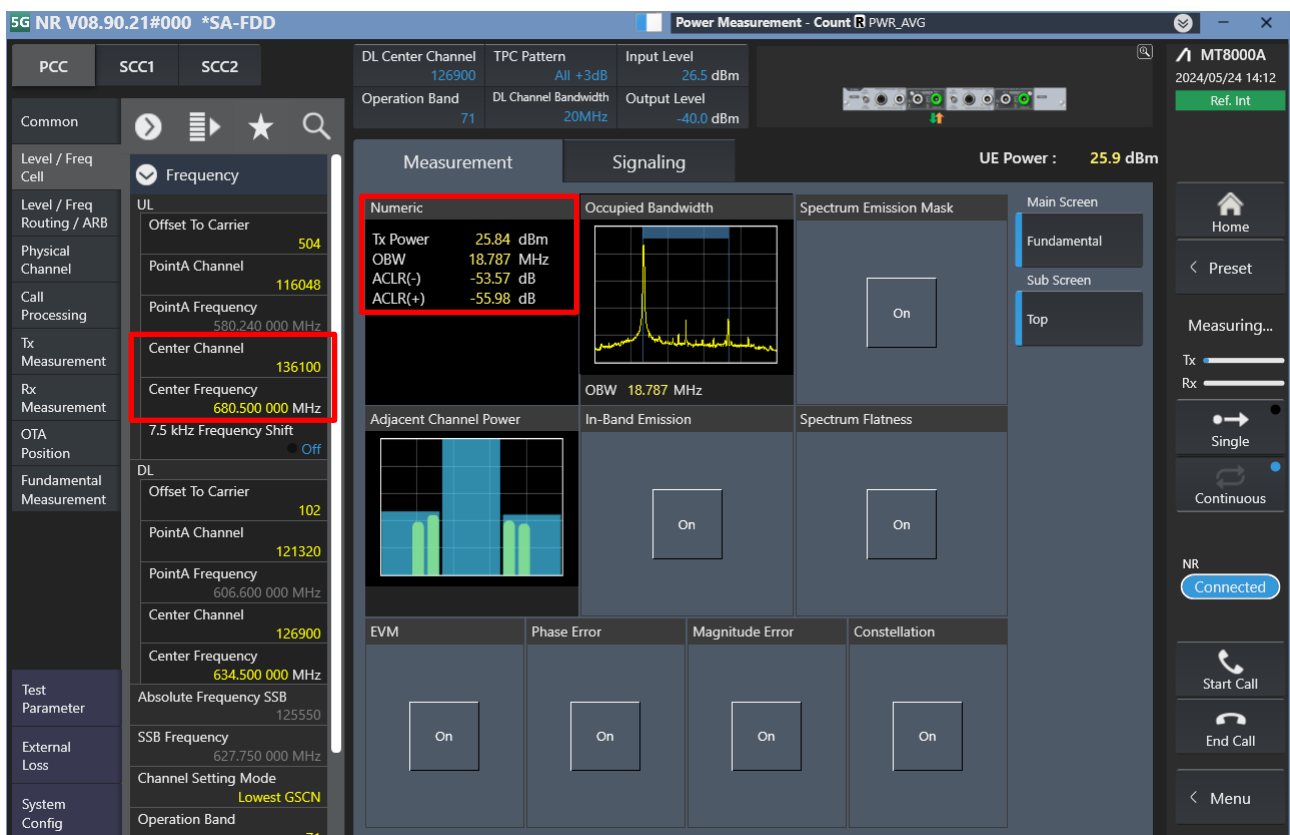
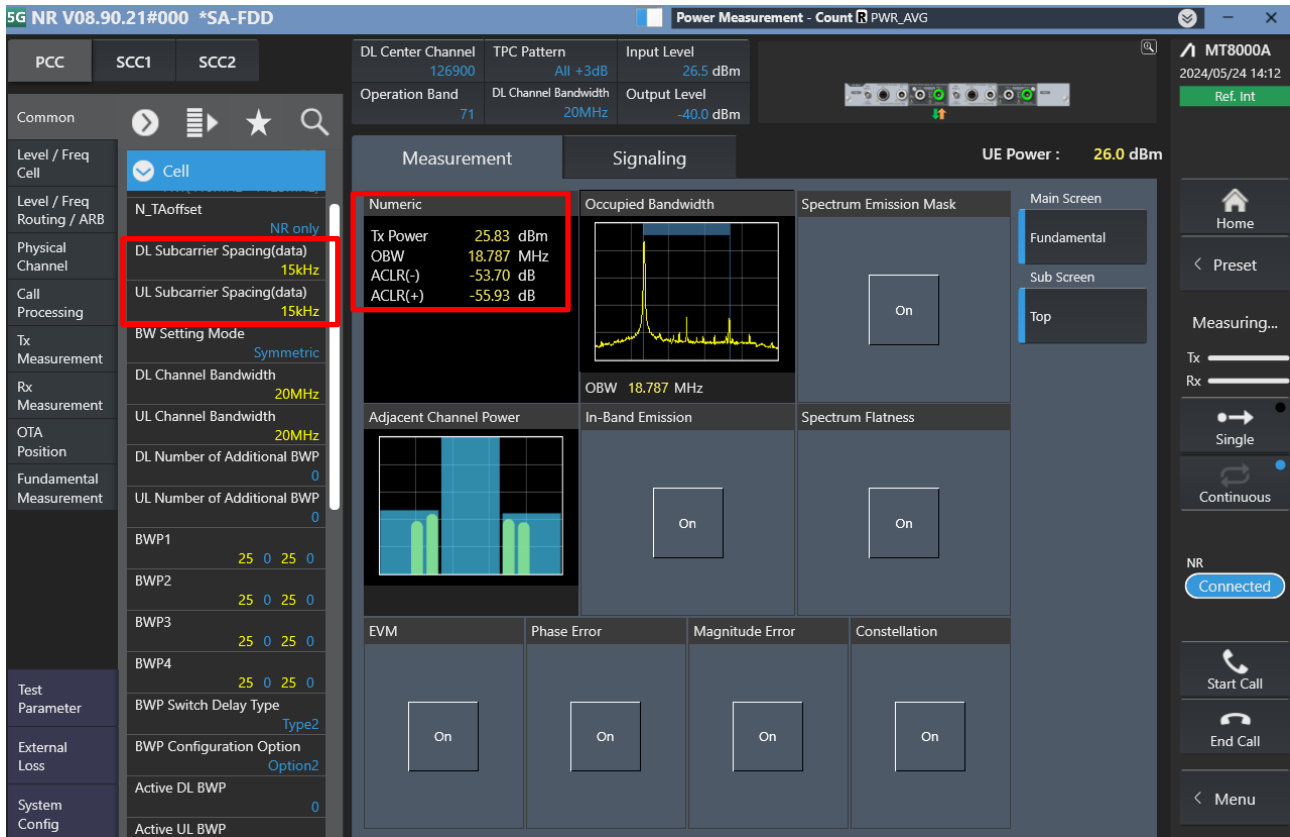
- Phone Configuration:** Phone1 (LTE, 40.20S#032) and Phone2 (LTE, 40.20S#032).
- Measurement Parameters (UL Channel):**
  - UL Channel: 18900 ch
  - Operation Band: 2
  - TPC Pattern: All +3dB
  - Channel Bandwidth: 20 MHz
  - Input Level: 35.0 dBm
  - Output Level: -54.2 dBm
- Power Measurement - Meas. Count:** PWR\_AVG (This sets the measurement count of the power measurement).
- UE Power:** 25.4 dBm
- Measurement Results:**
  - Power Measurement: TX Power 25.12 dBm
  - Modulation Analysis: 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)
- System Config:** DL RMC

### <5G NR FR1>



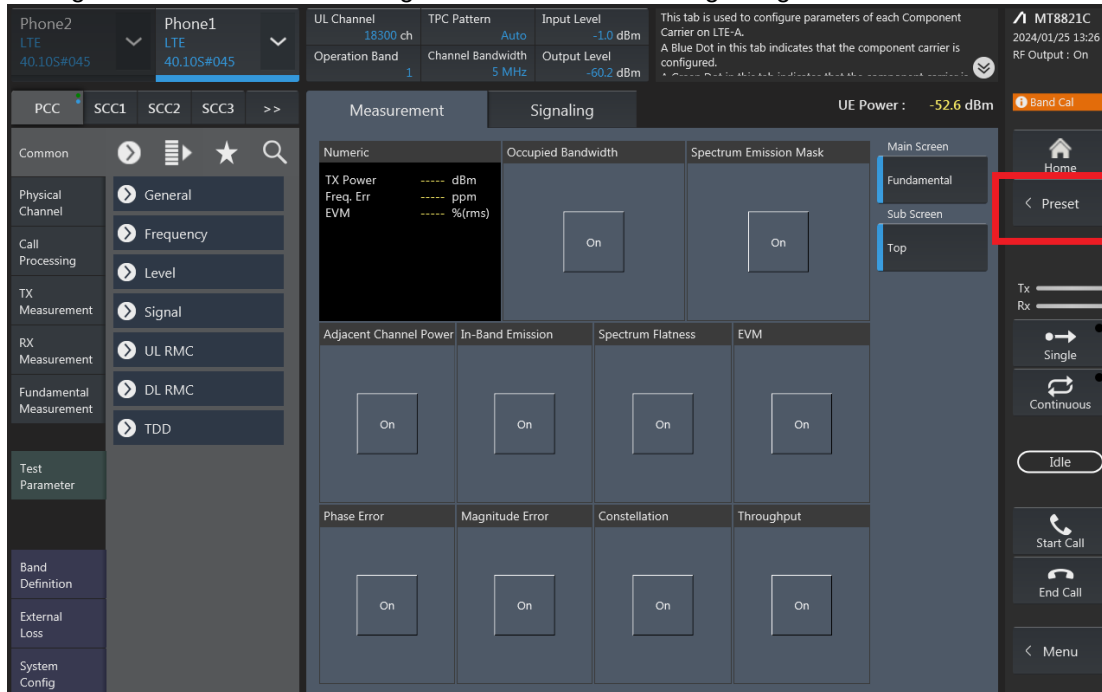
The screenshot displays the 5G NR FR1 test interface with the following configuration and measurement data:

- 5G NR V08.90.21#000 \*SA-FDD**
- Measurement Parameters (DL Center Channel):**
  - DL Center Channel: 126900
  - Operation Band: 71
  - TPC Pattern: All +3dB
  - DL Channel Bandwidth: 20MHz
  - Input Level: 26.5 dBm
  - Output Level: -40.0 dBm
- Power Measurement - Count:** PWR\_AVG
- UE Power:** 26.0 dBm
- Measurement Results:**
  - Numeric: Tx Power 25.88 dBm, OBW 18.787 MHz, ACLR(-) -53.74 dB, ACLR(+) -55.90 dB
  - Occupied Bandwidth: 18.787 MHz
  - 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
- System Config:** Uplink Tx Switching



## LTE Uplink and Downlink Carrier Aggregation configurations:

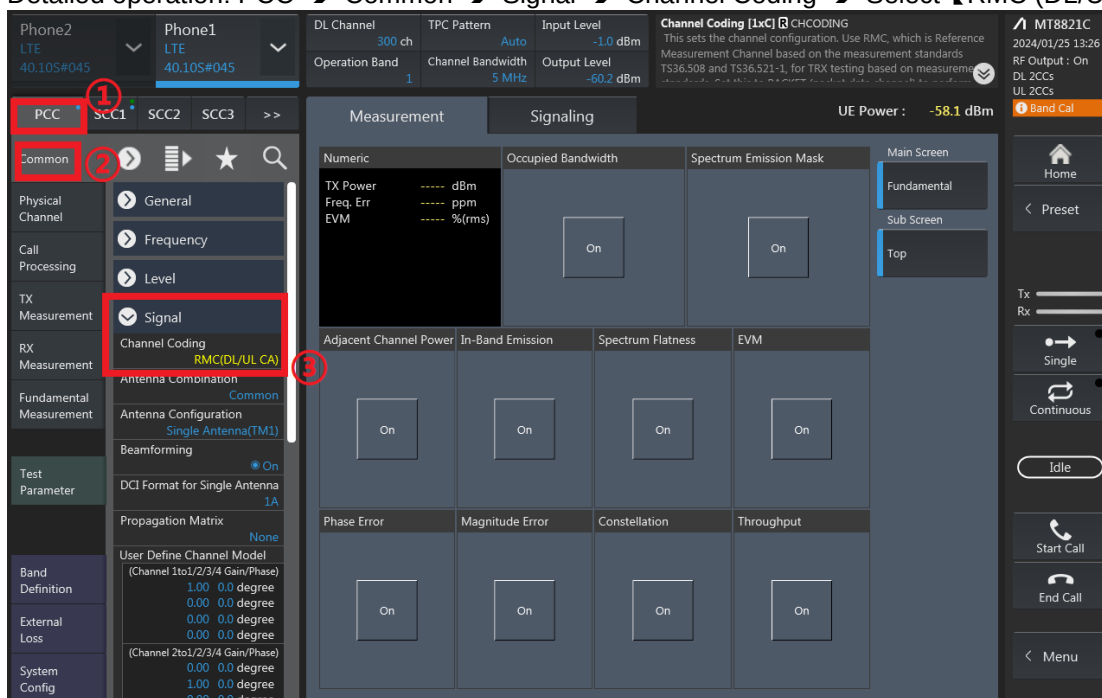
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



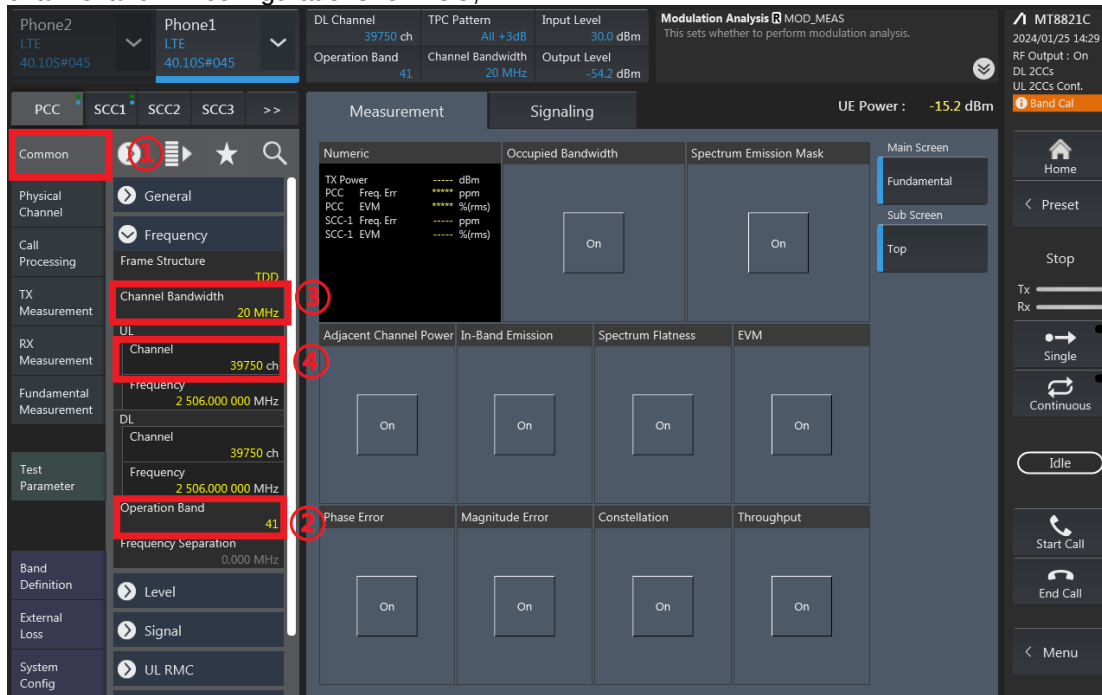
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;  
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

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

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

UE Power: -15.2 dBm

Common

Physical Channel

Call Processing

TX Measurement

RX Measurement

Fundamental Measurement

Test Parameter

Band Definition

External Loss

System Config

General

Frequency

Channel Bandwidth 20 MHz

Channel 39750 ch

Frequency 2 506.000 000 MHz

DL Channel 39750 ch

Frequency 2 506.000 000 MHz

Operation Band 41

Frequency Separation 0.000 MHz

Level

Signal

UL RMC

Numeric

Occupied Bandwidth

Spectrum Emission Mask

Main Screen

Fundamental

Sub Screen

Top

Home

Preset

Stop

Tx

Rx

Single

Continuous

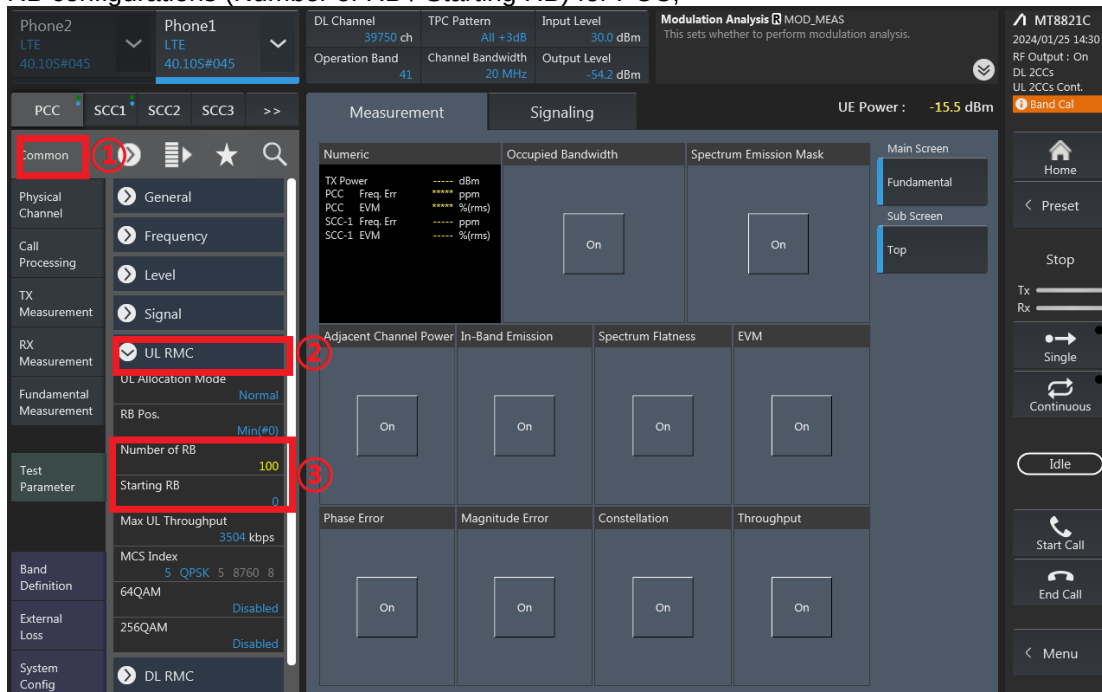
Idle

Start Call

End Call

Menu

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

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

UE Power: -15.5 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 100

Starting RB 0

Max UL Throughput 3504 kbps

MCS Index 5 QPSK 5 8760 8

64QAM

256QAM

DL RMC

Numeric

Occupied Bandwidth

Spectrum Emission Mask

Main Screen

Fundamental

Sub Screen

Top

Home

Preset

Stop

Tx

Rx

Single

Continuous

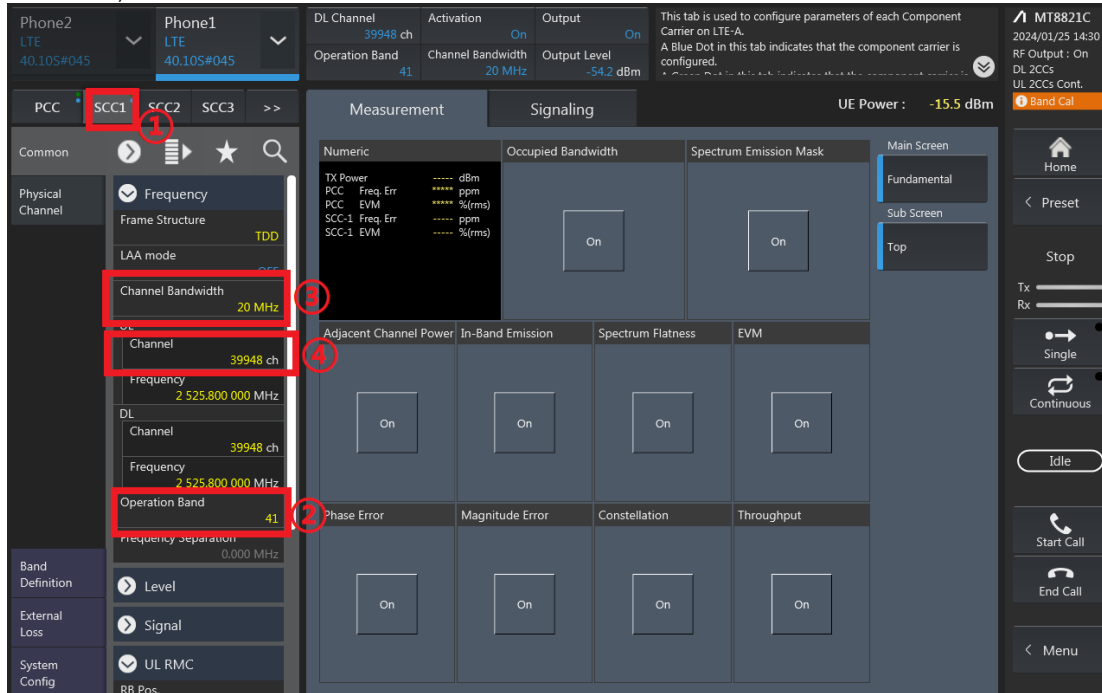
Idle

Start Call

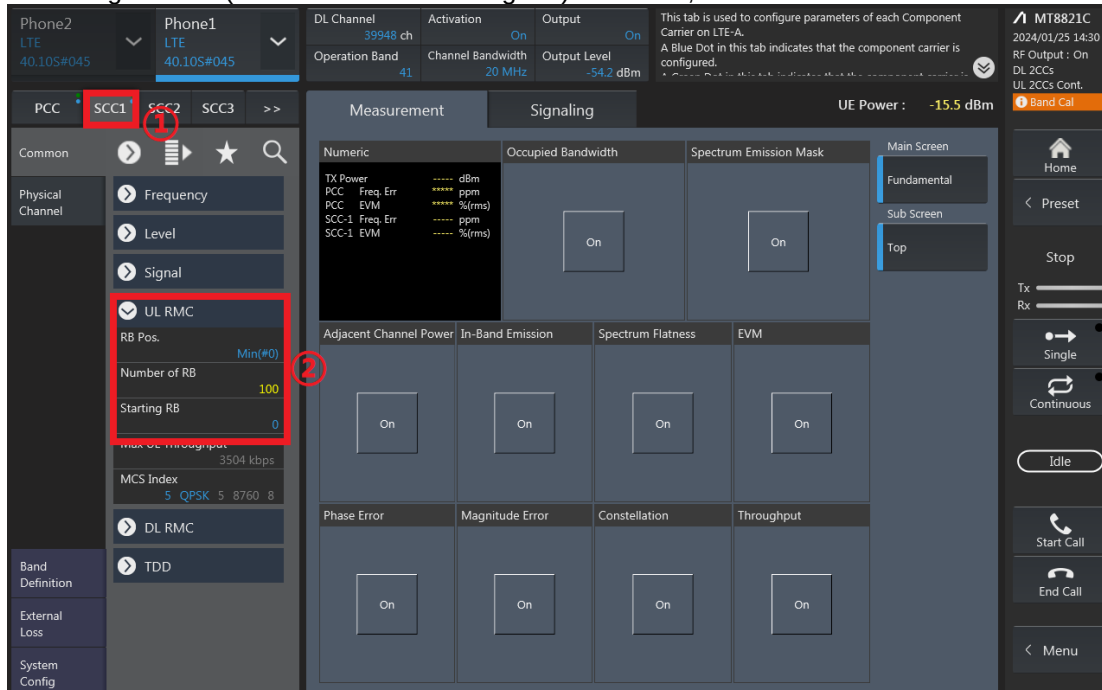
End Call

Menu

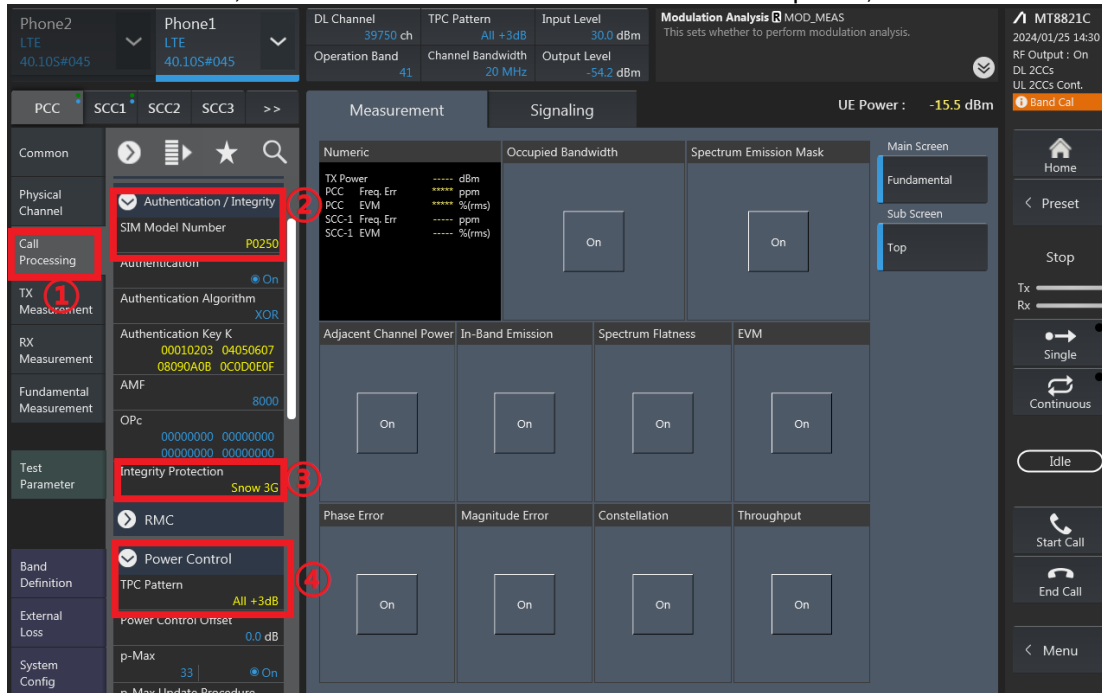
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



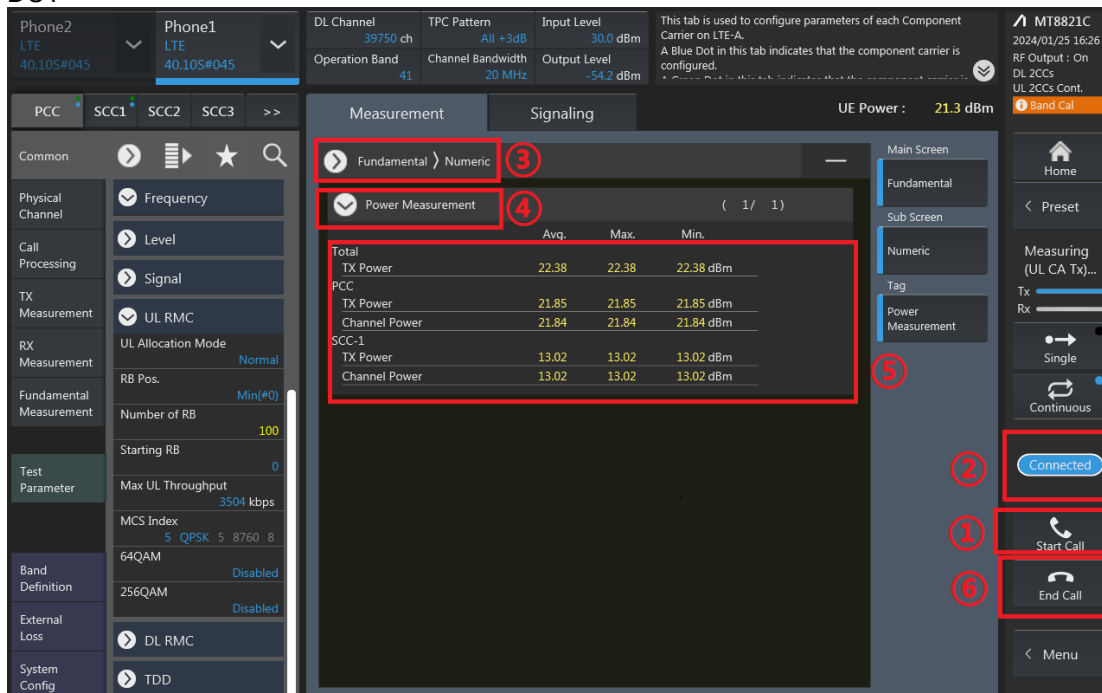
RB configurations (Number of RB / Starting RB) for SCC1;



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

| CA_66B Ant4                        |             |            |         |           |         |           |               |                       |        |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|--------|----------------------|---------------------|
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |               |                       |        |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI    | Measured Power (dbm) | Tune up Power (dbm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |        |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.30                | 25.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.45                | 25.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.42                | 25.00               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 20.80                | 21.50               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 20.96                | 21.50               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 20.91                | 21.50               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 24.30                | 25.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 24.45                | 25.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 24.42                | 25.00               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.88                | 19.50               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 19.00                | 19.50               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.96                | 19.50               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 24.30                | 25.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 24.45                | 25.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 24.42                | 25.00               |

| CA 66B Ant3                        |             |            |         |           |         |           |               |                       |        |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|--------|----------------------|---------------------|
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |               |                       |        |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI    | Measured Power (dbm) | Tune up Power (dbm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |        |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 23.94                | 25.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.04                | 25.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 23.98                | 25.00               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.73                | 22.50               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.84                | 22.50               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.79                | 22.50               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 17.19                | 18.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 17.29                | 18.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 17.24                | 18.00               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 20.18                | 21.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 20.26                | 21.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 20.23                | 21.00               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 16.20                | 17.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 16.31                | 17.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 16.21                | 17.00               |

| CA_66B Ant5                        |             |            |         |           |         |           |               |                       |        |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|--------|----------------------|---------------------|
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |               |                       |        |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI    | Measured Power (dbm) | Tune up Power (dbm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |        |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 22.46                | 23.80               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 22.52                | 23.80               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 22.27                | 23.80               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 20.95                | 22.30               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.03                | 22.30               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 20.77                | 22.30               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 20.44                | 21.80               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 20.49                | 21.80               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 20.24                | 21.80               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.38                | 19.80               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.46                | 19.80               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.17                | 19.80               |
| 132047                             | 132140      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 19.46                | 20.80               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 19.53                | 20.80               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 19.30                | 20.80               |

| CA_66C Ant4                           |             |            |         |           |         |           |               |                       |        |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|--------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |        |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI    | Measured Power (dbm) | Tune up Power (dbm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |        |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.34                | 25.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.48                | 25.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.44                | 25.00               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 20.98                | 21.50               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.14                | 21.50               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.07                | 21.50               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 24.34                | 25.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 24.48                | 25.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 24.44                | 25.00               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.95                | 19.50               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 19.07                | 19.50               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 19.08                | 19.50               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 24.34                | 25.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 24.48                | 25.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 24.44                | 25.00               |

| CA_66C Ant3                           |             |            |         |           |         |           |               |                       |        |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|--------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |        |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI    | Measured Power (dbm) | Tune up Power (dbm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |        |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 23.95                | 25.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.07                | 25.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 24.02                | 25.00               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.75                | 22.50               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.85                | 22.50               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.85                | 22.50               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 17.20                | 18.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 17.35                | 18.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 17.29                | 18.00               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 20.21                | 21.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 20.35                | 21.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 20.29                | 21.00               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 16.21                | 17.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 16.37                | 17.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 16.29                | 17.00               |

| CA_66C Ant5                           |             |            |         |           |         |           |               |                       |        |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|--------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |        |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI    | Measured Power (dbm) | Tune up Power (dbm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |        |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 22.47                | 23.80               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 22.53                | 23.80               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 22.33                | 23.80               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 20.97                | 22.30               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.05                | 22.30               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 20.86                | 22.30               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 20.48                | 21.80               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 20.53                | 21.80               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 20.33                | 21.80               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.46                | 19.80               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.49                | 19.80               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 18.33                | 19.80               |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 19.48                | 20.80               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 19.55                | 20.80               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 19.37                | 20.80               |

| CA_41C Ant4                           |             |            |         |           |         |           |               |                       |        |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|--------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |        |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI    | Measured Power (dbm) | Tune up Power (dbm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |        |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 23.11                | 23.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 23.03                | 23.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 23.45                | 23.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 23.23                | 23.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 23.44                | 23.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.83                | 22.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.73                | 22.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 22.17                | 22.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.98                | 22.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 22.14                | 22.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 23.11                | 23.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 23.03                | 23.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 23.45                | 23.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 23.23                | 23.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 23.44                | 23.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 20.87                | 21.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 20.81                | 21.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 21.22                | 21.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 21.01                | 21.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 21.22                | 21.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 23.11                | 23.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 23.03                | 23.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 23.45                | 23.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 23.23                | 23.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 23.44                | 23.80               |

| CA_41C Ant3                           |             |            |         |           |         |           |               |                       |       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI   | Measured Power (dbm) | Tune up Power (dbm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL  | 22.65                | 23.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL  | 22.67                | 23.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL  | 22.73                | 23.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL  | 22.67                | 23.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL  | 22.33                | 23.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI3  | 22.65                | 23.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI3  | 22.67                | 23.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI3  | 22.73                | 23.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI3  | 22.67                | 23.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI3  | 22.33                | 23.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI5  | 19.37                | 20.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI5  | 19.39                | 20.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI5  | 19.46                | 20.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI5  | 19.37                | 20.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI5  | 19.03                | 20.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI8  | 22.65                | 23.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI8  | 22.67                | 23.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI8  | 22.73                | 23.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI8  | 22.67                | 23.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI8  | 22.33                | 23.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI10 | 18.39                | 19.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI10 | 18.43                | 19.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI10 | 18.46                | 19.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI10 | 18.42                | 19.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI10 | 18.07                | 19.80               |

| CA_41C Ant5                           |             |            |         |           |         |           |               |                       |        |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|--------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |        |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | DSI    | Measured Power (dbm) | Tune up Power (dbm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |        |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 21.29                | 22.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 21.22                | 22.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 21.66                | 22.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 21.40                | 22.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | FULL   | 21.61                | 22.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.29                | 22.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.22                | 22.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.66                | 22.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.40                | 22.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 3  | 21.61                | 22.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 21.29                | 22.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 21.22                | 22.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 21.66                | 22.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 21.40                | 22.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 5  | 21.61                | 22.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 21.29                | 22.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 21.22                | 22.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 21.66                | 22.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 21.40                | 22.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 8  | 21.61                | 22.80               |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 21.29                | 22.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 21.22                | 22.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 21.66                | 22.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 21.40                | 22.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | ECI 10 | 21.61                | 22.80               |

## Downlink CA Power

| Full Power |                |                        |          |          |                |            |      |        |              |          |          |                |            |                        |                      |
|------------|----------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|------------------------|----------------------|
| 2CC        |                |                        |          |          |                |            |      |        |              |          |          |                |            |                        |                      |
| Configure  |                | CA Configuration (BCS) | PCC      |          |                |            |      |        | SCC          |          |          |                | Power      |                        |                      |
|            |                |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dB) |
| Inter-Band |                | 2A-4A                  | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 4   | 20       | 2132.5         | 2175       | 22.90                  | 23.38                |
|            |                | 2A-5A                  | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 5   | 10       | 881.5          | 2525       | 22.84                  | 23.38                |
|            |                | 2A-7A                  | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 7   | 20       | 2655           | 3100       | 22.83                  | 23.38                |
|            |                | 2A-12A                 | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 12  | 10       | 737.5          | 5095       | 22.89                  | 23.38                |
|            |                | 2A-26A                 | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 26  | 5        | 876.5          | 8865       | 22.84                  | 23.38                |
|            |                | 2A-38A                 | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 38  | 20       | 2599.8         | 38048      | 22.90                  | 23.38                |
|            |                | 2A-66A                 | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 66  | 20       | 2155.00        | 66886      | 22.91                  | 23.38                |
|            |                | 4A-5A                  | Band 4   | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | Band 5   | 10       | 881.5          | 2525       | 24.45                  | 24.55                |
|            |                | 4A-7A                  | Band 4   | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | Band 7   | 20       | 2655           | 3100       | 24.53                  | 24.55                |
|            |                | 4A-12A                 | Band 4   | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | Band 12  | 10       | 737.5          | 5095       | 24.47                  | 24.55                |
|            |                | 4A-17A                 | Band 4   | 10       | 1732.5         | 20175      | QPSK | 1      | 0            | Band 17  | 10       | 740            | 5790       | 24.40                  | 24.55                |
|            |                | 5A-7A                  | Band 5   | 10       | 829            | 20450      | QPSK | 1      | 0            | Band 7   | 20       | 2655           | 3100       | 24.57                  | 24.35                |
|            |                | 5A-41A                 | Band 5   | 10       | 829            | 20450      | QPSK | 1      | 0            | Band 41  | 20       | 2593           | 40620      | 24.53                  | 24.35                |
|            |                | 5A-66A                 | Band 5   | 10       | 829            | 20450      | QPSK | 1      | 0            | Band 66  | 20       | 2155           | 66886      | 24.55                  | 24.35                |
|            |                | 7A-12A                 | Band 7   | 20       | 2535           | 21100      | QPSK | 1      | 0            | Band 12  | 10       | 737.5          | 5095       | 24.89                  | 24.73                |
|            |                | 7A-26A                 | Band 7   | 20       | 2535           | 21100      | QPSK | 1      | 0            | Band 26  | 5        | 876.5          | 8865       | 24.84                  | 24.73                |
|            |                | 7A-66A                 | Band 7   | 20       | 2535           | 21100      | QPSK | 1      | 0            | Band 66  | 20       | 2155.00        | 66886      | 24.82                  | 24.73                |
|            |                | 12A-66A                | Band 12  | 10       | 707.5          | 23095      | QPSK | 1      | 0            | Band 66  | 20       | 2145           | 66786      | 24.16                  | 24.28                |
| Intra-Band | Non-Contiguous | 2A-2A                  | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 2   | 5        | 1932.5         | 625        | 22.94                  | 23.38                |
|            |                | 4A-4A                  | Band 4   | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | Band 4   | 5        | 2152.5         | 2375       | 24.51                  | 24.55                |
|            |                | 5A-5A                  | Band 5   | 10       | 829            | 20450      | QPSK | 1      | 0            | Band 5   | 10       | 889            | 2600       | 24.53                  | 24.35                |
|            |                | 7A-7A                  | Band 7   | 20       | 2535           | 21100      | QPSK | 1      | 0            | Band 7   | 20       | 2680           | 3350       | 24.92                  | 24.73                |
|            |                | 41A-41A                | Band 41  | 20       | 2593           | 40620      | QPSK | 1      | 0            | Band 41  | 20       | 2506           | 39750      | 23.37                  | 23.50                |
|            |                | 66A-66A                | Band 66  | 20       | 1770           | 132572     | QPSK | 1      | 0            | Band 66  | 5        | 2112.5         | 66461      | 24.37                  | 24.50                |
|            | Contiguous     | 5B                     | Band 5   | 10       | 829            | 20450      | QPSK | 1      | 0            | Band 5   | 10       | 883.9          | 2549       | 24.20                  | 24.35                |
|            |                | 66B                    | Band 66  | 15       | 1745           | 132322     | QPSK | 1      | 0            | Band 66  | 5        | 2164.30        | 66979      | 24.61                  | 24.50                |
|            |                | 2C                     | Band 2   | 20       | 1880           | 18900      | QPSK | 1      | 0            | Band 2   | 20       | 1979.80        | 1098       | 22.91                  | 23.38                |
|            |                | 7C                     | Band 7   | 20       | 2535           | 21100      | QPSK | 1      | 0            | Band 7   | 20       | 2674.80        | 3298       | 24.84                  | 24.73                |
|            |                | 38C                    | Band 38  | 20       | 2580           | 37850      | QPSK | 1      | 0            | Band 38  | 20       | 2599.80        | 38048      | 25.01                  | 24.85                |
|            |                | 41C                    | Band 41  | 20       | 2549.5         | 40185      | QPSK | 1      | 0            | Band 41  | 20       | 2569.3         | 40383      | 23.33                  | 23.50                |
|            |                | 66C                    | Band 66  | 20       | 1720           | 132072     | QPSK | 1      | 0            | Band 66  | 20       | 2139.80        | 66734      | 24.41                  | 24.50                |