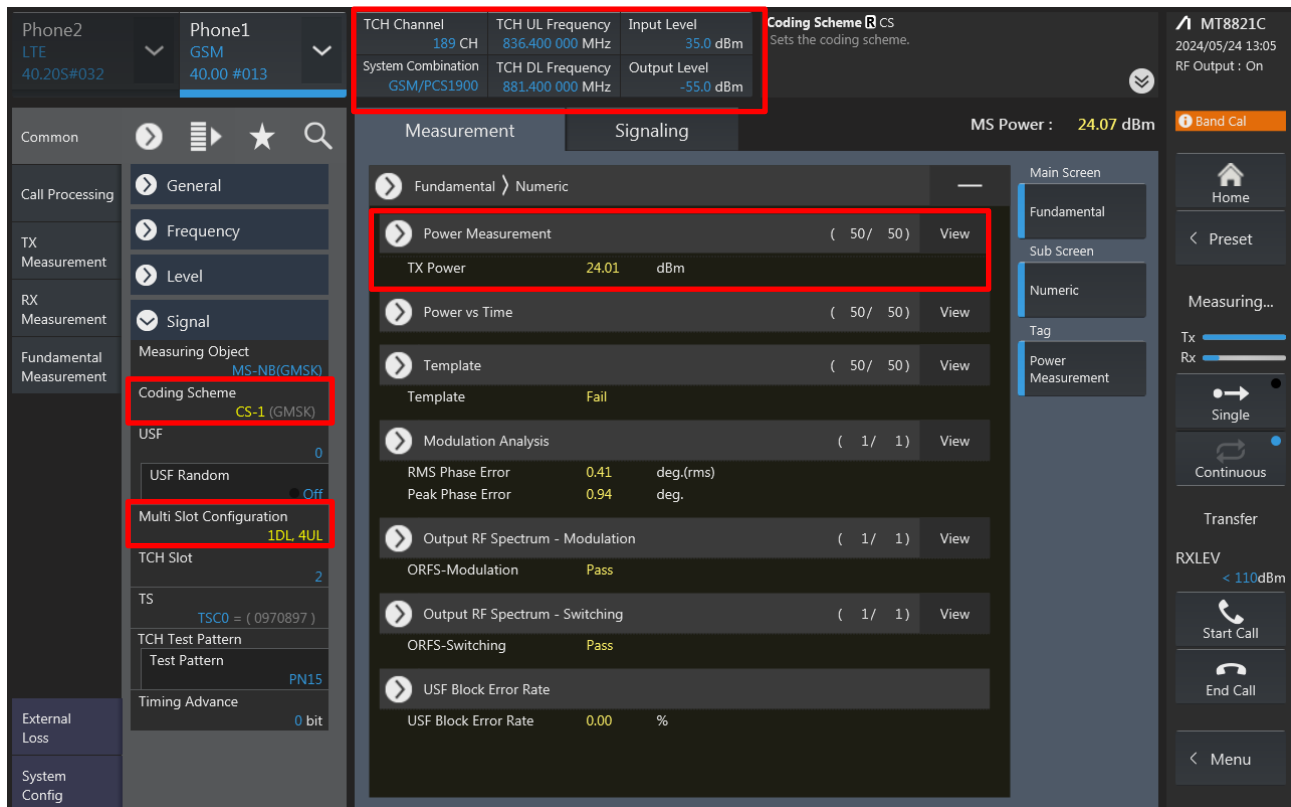


Power measurement connection diagram:

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.

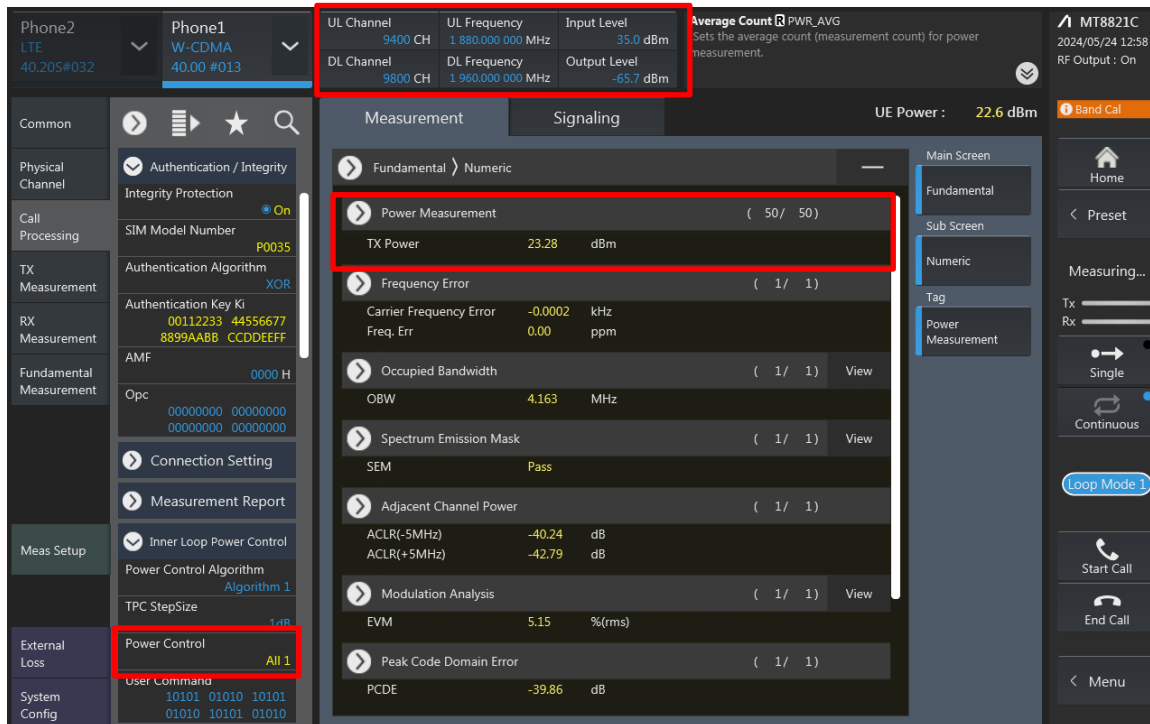
<GSM>



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 '2024/05/24 13:05'.

<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, Average Count: PWR_AVG, DL Channel: 9800 CH, DL Frequency: 1 960.000 000 MHz, Output Level: -65.7 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

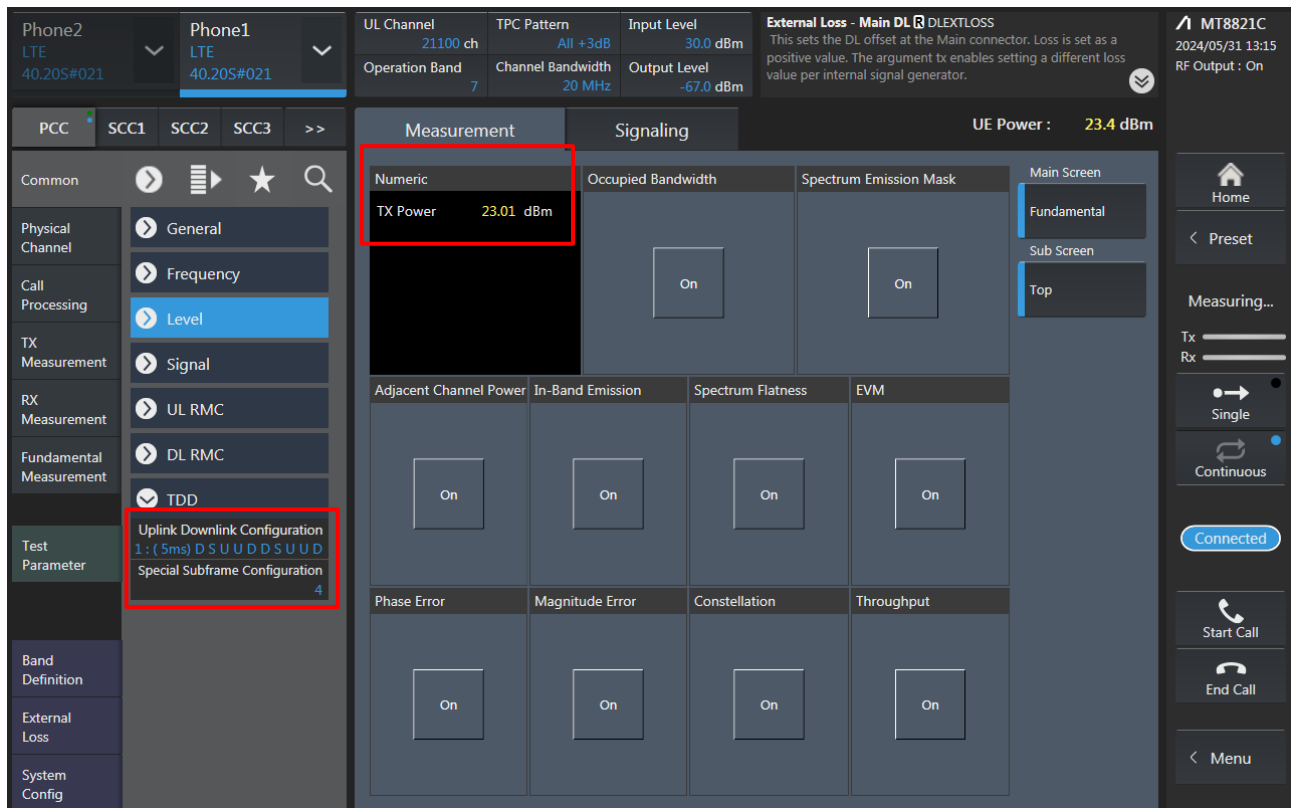
Modulation Analysis (1/1): EVM 5.15 %(rms)

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

UE Power: 22.6 dBm

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

<LTE>



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

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

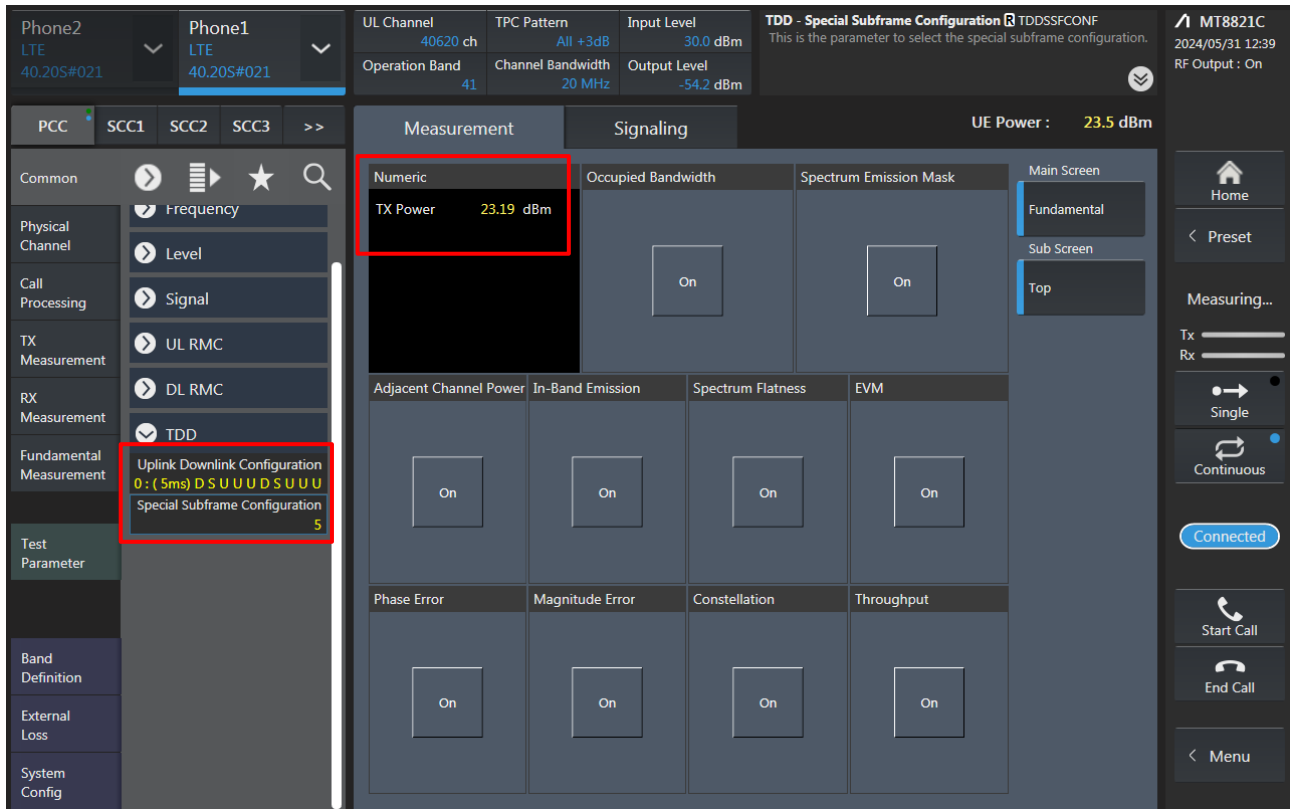
Constellation: On

Throughput: On

UE Power: 23.4 dBm

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

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 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

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

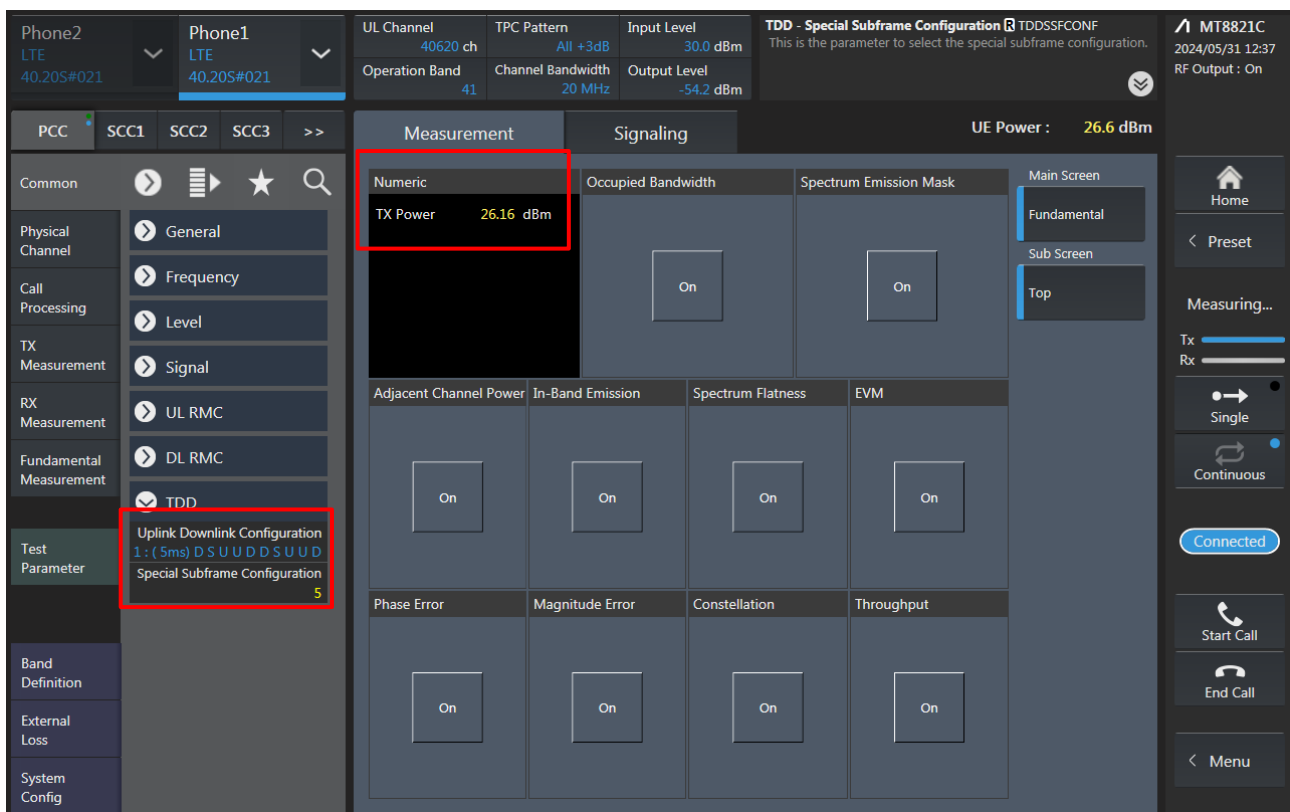
Common Physical Channel Call Processing TX Measurement RX Measurement Fundamental Measurement Test Parameter Band Definition External Loss System Config

Frequency Level Signal UL RMC DL RMC TDD

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

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 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

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

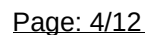
Special Subframe Configuration 5

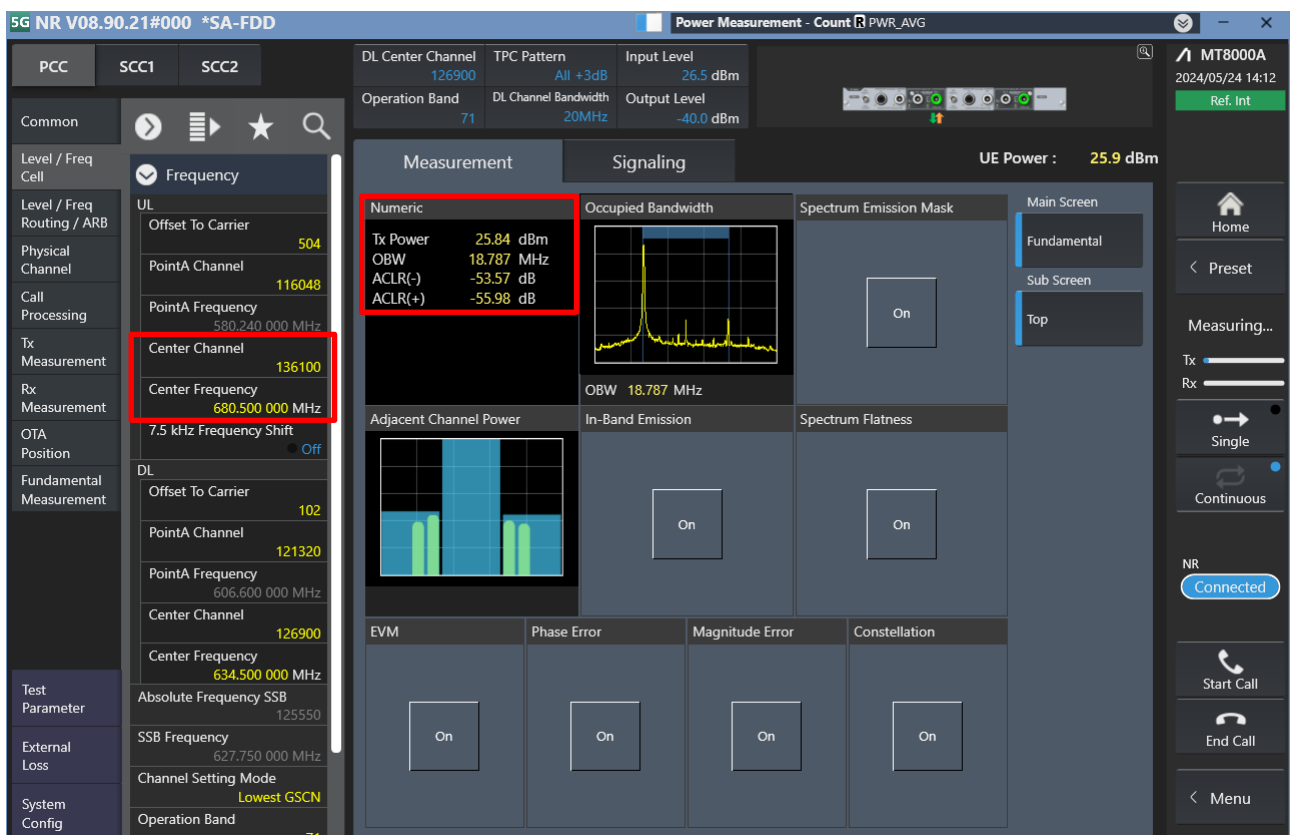
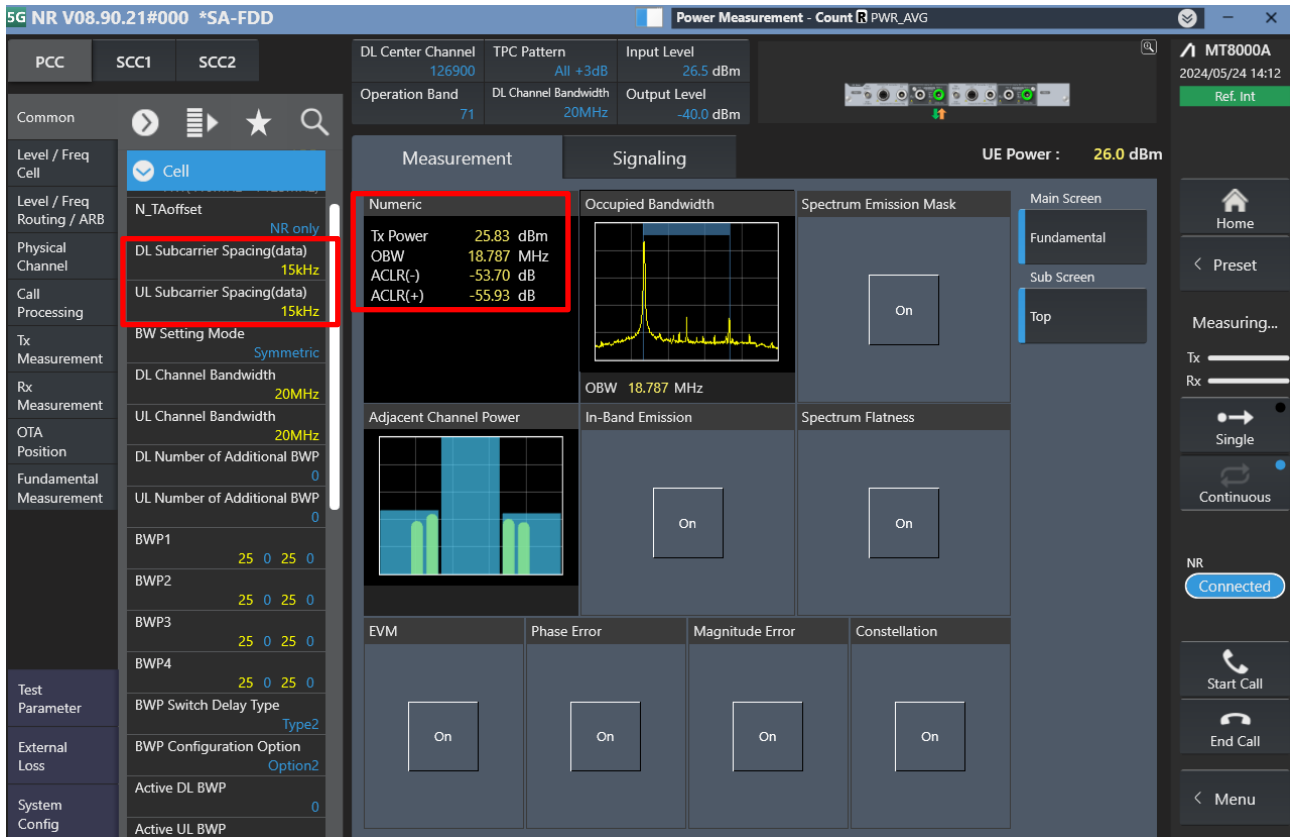
Common Physical Channel Call Processing TX Measurement RX Measurement Fundamental Measurement Test Parameter Band Definition External Loss System Config

General Frequency Level Signal UL RMC DL RMC TDD

Main Screen Fundamental Sub Screen Top

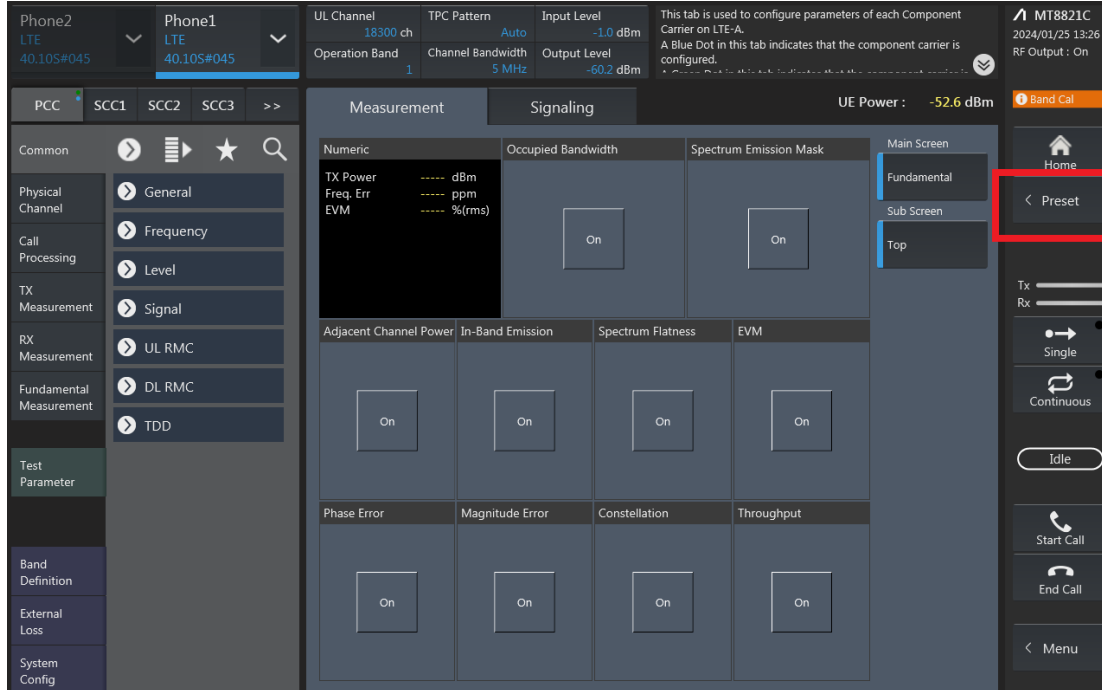
Home Preset Measuring... Tx Rx Single Continuous Connected Start Call End Call Menu





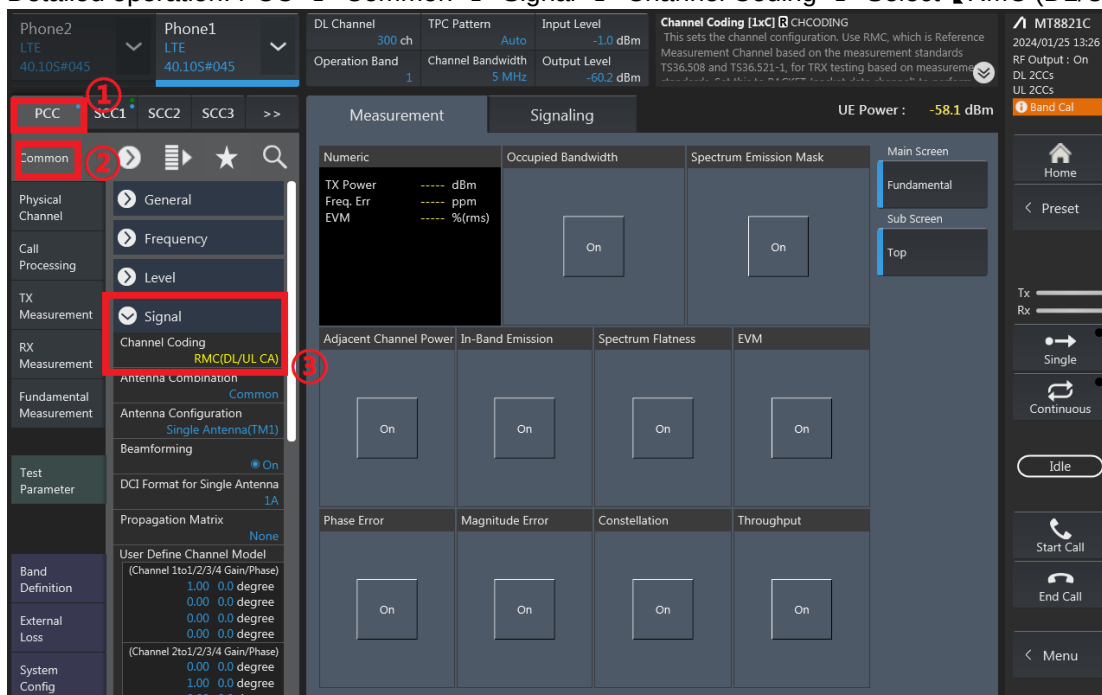
LTE Uplink and Downlink Carrier Aggregation configurations:

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

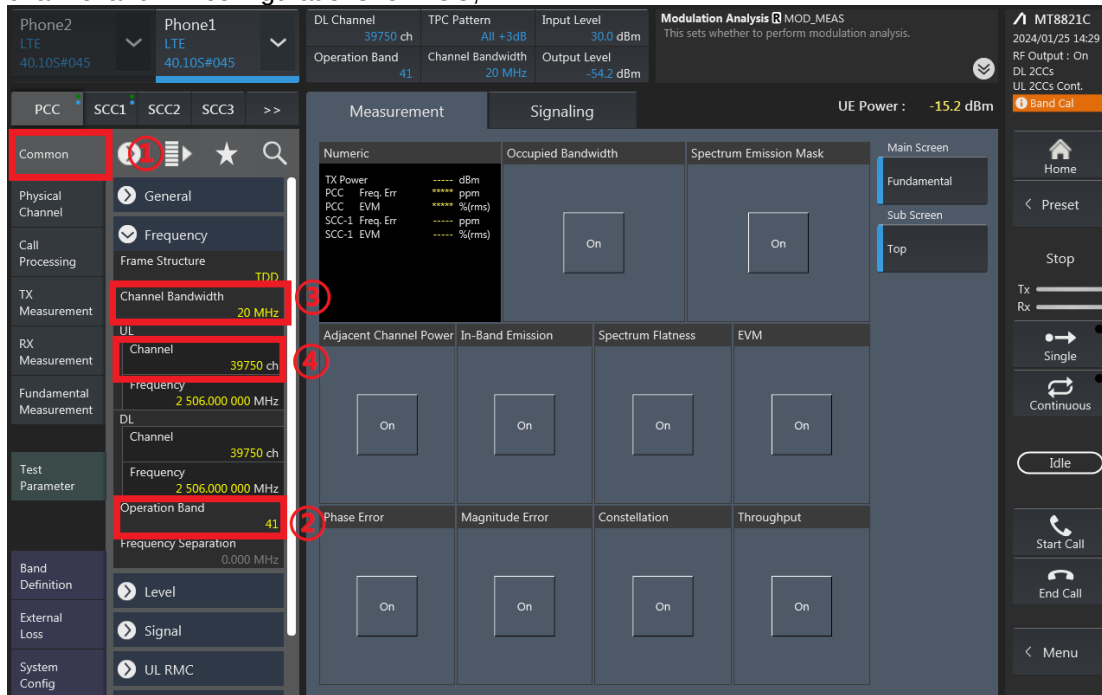


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

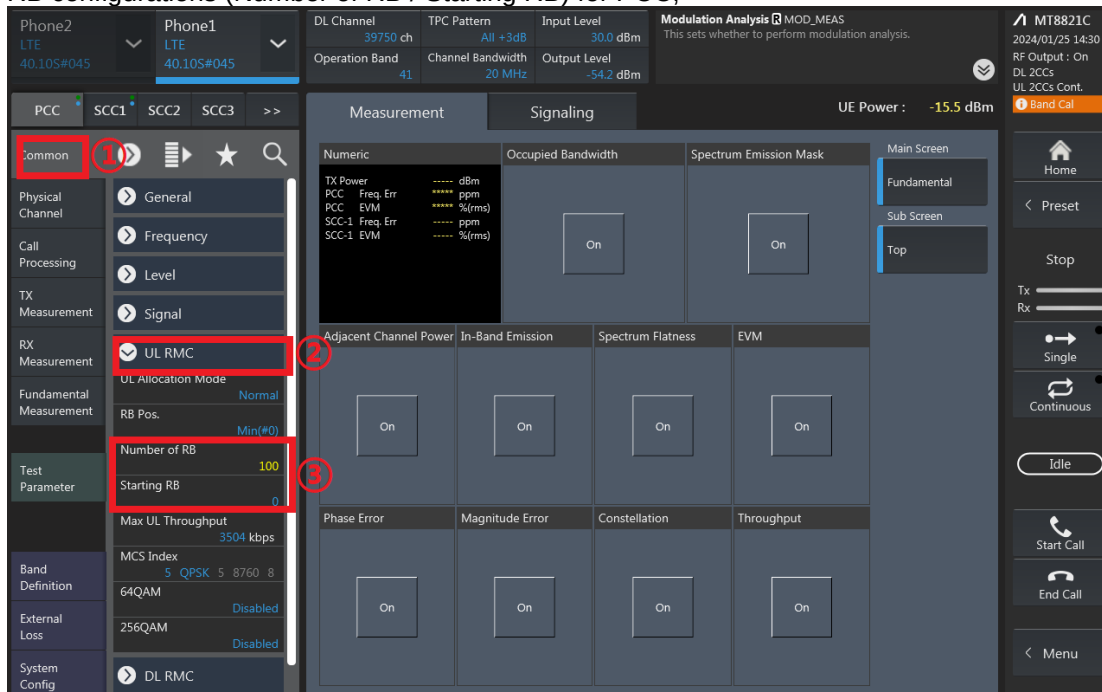
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



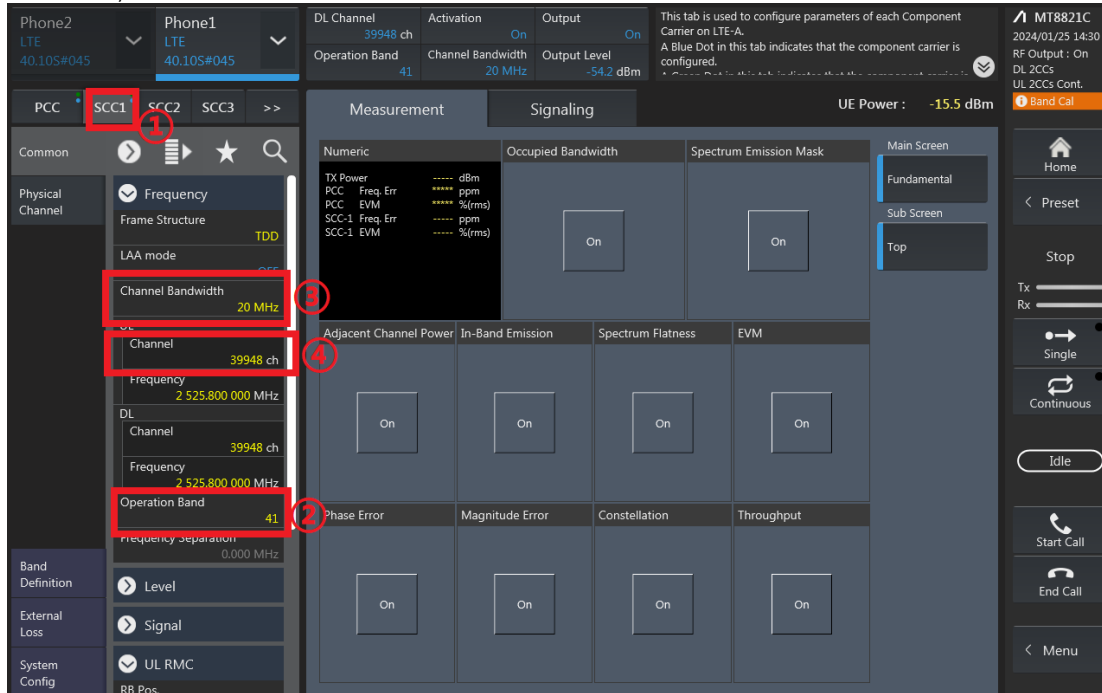
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



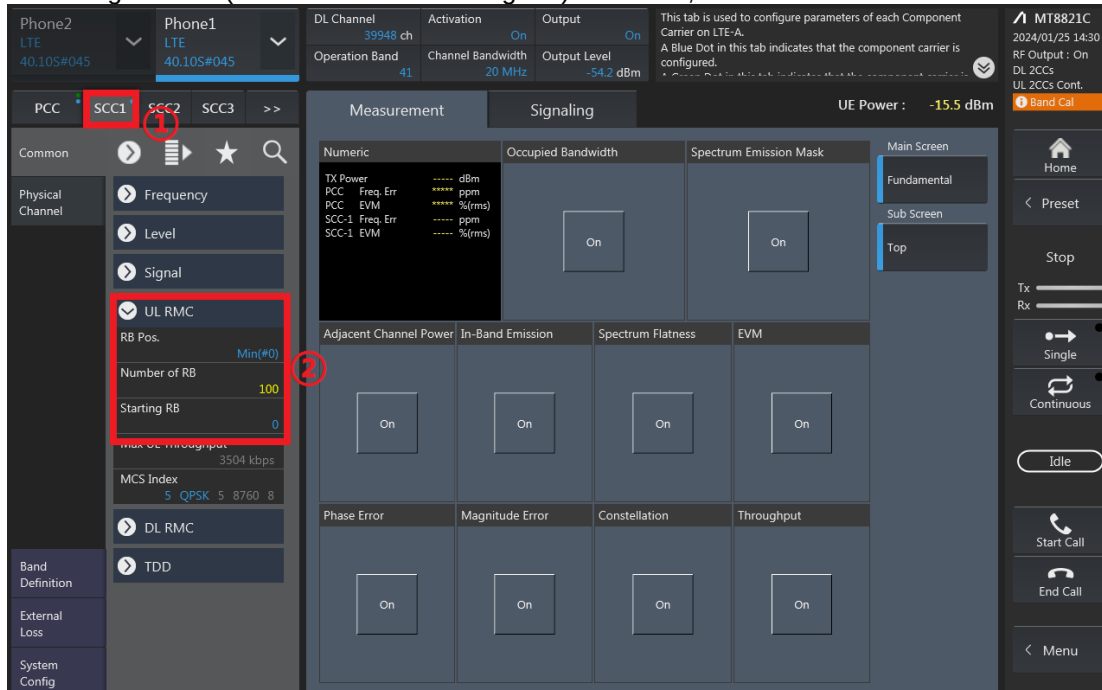
RB configurations (Number of RB / Starting RB) for PCC;



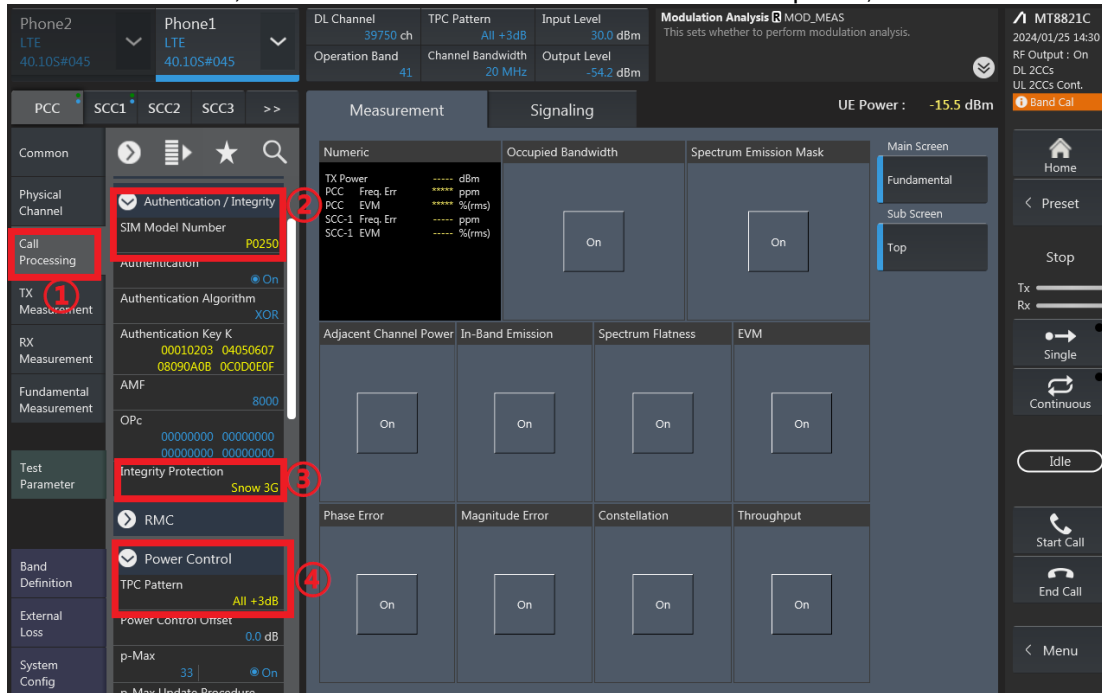
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



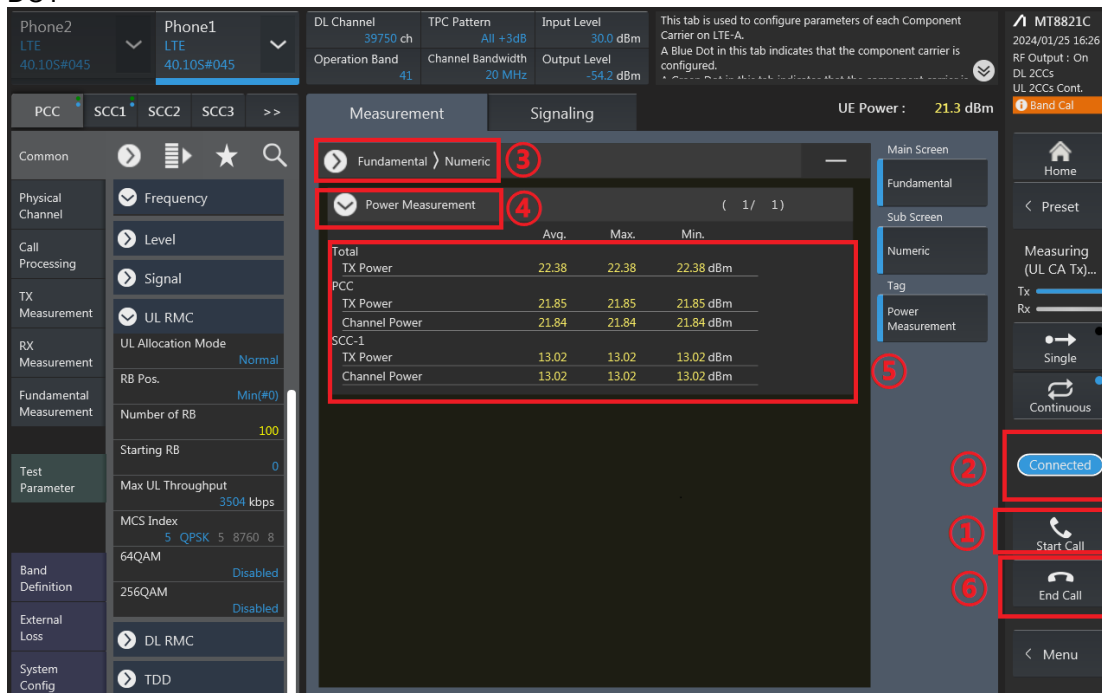
RB configurations (Number of RB / Starting RB) for SCC1;



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



	Avg.	Max.	Min.
Total TX Power	22.38	22.38	22.38 dBm
PCC TX Power	21.85	21.85	21.85 dBm
Channel Power	21.84	21.84	21.84 dBm
SCC-1 TX Power	13.02	13.02	13.02 dBm
Channel Power	13.02	13.02	13.02 dBm

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_4B_Ant 3										
Combination 10MRz+10MRz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Measurement	Turn up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
30450	30450	QPSK	1	0	0	0	1	0	Fair	24.00
30475	30475	QPSK	1	0	0	0	1	0	Fair	22.25
30500	30500	QPSK	1	0	0	0	1	0	Fair	22.25
30525	30525	QPSK	1	0	0	0	1	0	E2D 1	22.25
30550	30475	QPSK	1	0	0	0	1	0	E2D 2	22.25
30575	30500	QPSK	1	0	0	0	1	0	E2D 3	22.25
30600	30525	QPSK	1	0	0	0	1	0	E2D 4	22.25
30625	30550	QPSK	1	0	0	0	1	0	E2D 5	22.25
30650	30575	QPSK	1	0	0	0	1	0	E2D 6	22.25
30675	30600	QPSK	1	0	0	0	1	0	E2D 7	22.25
30700	30625	QPSK	1	0	0	0	1	0	E2D 8	22.25
30725	30650	QPSK	1	0	0	0	1	0	E2D 9	22.25
30750	30675	QPSK	1	0	0	0	1	0	E2D 10	22.25
30775	30700	QPSK	1	0	0	0	1	0	E2D 11	22.25
30800	30725	QPSK	1	0	0	0	1	0	E2D 12	22.25
30825	30750	QPSK	1	0	0	0	1	0	E2D 13	22.25
30850	30775	QPSK	1	0	0	0	1	0	E2D 14	22.25
30875	30800	QPSK	1	0	0	0	1	0	E2D 15	22.25
30900	30825	QPSK	1	0	0	0	1	0	E2D 16	22.25

CA_5B_Ant 1										
Combination 10MRz+10MRz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Measurement	Turn up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
30450	30450	QPSK	1	0	0	0	1	0	Fair	22.14
30475	30475	QPSK	1	0	0	0	1	0	Fair	22.25
30500	30500	QPSK	1	0	0	0	1	0	Fair	22.25
30525	30525	QPSK	1	0	0	0	1	0	E2D 1	18.65
30550	30475	QPSK	1	0	0	0	1	0	E2D 2	18.64
30575	30500	QPSK	1	0	0	0	1	0	E2D 3	18.61
30600	30525	QPSK	1	0	0	0	1	0	E2D 4	18.63
30625	30550	QPSK	1	0	0	0	1	0	E2D 5	18.58
30650	30575	QPSK	1	0	0	0	1	0	E2D 6	18.57
30675	30600	QPSK	1	0	0	0	1	0	E2D 7	18.57
30700	30625	QPSK	1	0	0	0	1	0	E2D 8	18.57
30725	30650	QPSK	1	0	0	0	1	0	E2D 9	18.57
30750	30675	QPSK	1	0	0	0	1	0	E2D 10	18.57
30775	30700	QPSK	1	0	0	0	1	0	E2D 11	18.57
30800	30725	QPSK	1	0	0	0	1	0	E2D 12	18.57
30825	30750	QPSK	1	0	0	0	1	0	E2D 13	18.57
30850	30775	QPSK	1	0	0	0	1	0	E2D 14	18.57
30875	30800	QPSK	1	0	0	0	1	0	E2D 15	18.57
30900	30825	QPSK	1	0	0	0	1	0	E2D 16	18.57

CA_4TC_Ant 2										
Combination 20MRz+20MRz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Measurement	Turn up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
30750	30648	QPSK	1	0	0	0	1	0	Fair	22.41
40155	40053	QPSK	1	0	0	0	1	0	Fair	22.37
40550	40448	QPSK	1	0	0	0	1	0	Fair	22.12
41050	41250	QPSK	1	0	0	0	1	0	Fair	22.51
41450	41750	QPSK	1	0	0	0	1	0	Fair	22.75
30750	30648	QPSK	1	0	0	0	1	0	E2D 2	22.41
40155	40053	QPSK	1	0	0	0	1	0	E2D 2	22.37
40550	40448	QPSK	1	0	0	0	1	0	E2D 2	22.12
41050	41250	QPSK	1	0	0	0	1	0	E2D 2	22.51
41450	41750	QPSK	1	0	0	0	1	0	E2D 2	22.75
30750	30648	QPSK	1	0	0	0	1	0	E2D 3	22.17
40155	40053	QPSK	1	0	0	0	1	0	E2D 3	21.55
40550	40448	QPSK	1	0	0	0	1	0	E2D 3	21.65
41050	41250	QPSK	1	0	0	0	1	0	E2D 3	21.65
41450	41750	QPSK	1	0	0	0	1	0	E2D 3	22.25
40155	40053	QPSK	1	0	0	0	1	0	E2D 4	22.27
40550	40448	QPSK	1	0	0	0	1	0	E2D 4	22.12
41050	41250	QPSK	1	0	0	0	1	0	E2D 4	22.51
41450	41750	QPSK	1	0	0	0	1	0	E2D 4	22.75
30750	30648	QPSK	1	0	0	0	1	0	E2D 5	22.41
40155	40053	QPSK	1	0	0	0	1	0	E2D 5	22.37
40550	40448	QPSK	1	0	0	0	1	0	E2D 5	22.17
41050	41250	QPSK	1	0	0	0	1	0	E2D 5	22.75
41450	41750	QPSK	1	0	0	0	1	0	E2D 5	22.75
30750	30648	QPSK	1	0	0	0	1	0	E2D 6	18.62
40155	40053	QPSK	1	0	0	0	1	0	E2D 6	18.62
40550	40448	QPSK	1	0	0	0	1	0	E2D 6	18.62
41050	41250	QPSK	1	0	0	0	1	0	E2D 6	18.65
41450	41750	QPSK	1	0	0	0	1	0	E2D 6	20.36

CA_4TC_Ant 1										
Combination 20MRz+20MRz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Measurement	Turn up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
30750	30648	QPSK	1	0	0	0	1	0	Fair	22.38
40155	40053	QPSK	1	0	0	0	1	0	Fair	22.62
40550	40448	QPSK	1	0	0	0	1	0	Fair	22.34
41050	41250	QPSK	1	0	0	0	1	0	Fair	22.15
41450	41750	QPSK	1	0	0	0	1	0	Fair	22.51
30750	30648	QPSK	1	0	0	0	1	0	E2D 2	15.97
40155	40053	QPSK	1	0	0	0	1	0	E2D 2	16.95
40550	40448	QPSK	1	0	0	0	1	0	E2D 2	16.65
41050	41250	QPSK	1	0	0	0	1	0	E2D 2	15.86
41450	41750	QPSK	1	0	0	0	1	0	E2D 2	16.61
30750	30648	QPSK	1	0	0	0	1	0	E2D 3	17.49
40155	40053	QPSK	1	0	0	0	1	0	E2D 3	17.53
40550	40448	QPSK	1	0	0	0	1	0	E2D 3	17.44
41050	41250	QPSK	1	0	0	0	1	0	E2D 3	17.37
41450	41750	QPSK	1	0	0	0	1	0	E2D 3	17.52
30750	30648	QPSK	1	0	0	0	1	0	E2D 4	22.39
40155	40053	QPSK	1	0	0	0	1	0	E2D 4	22.62
40550	40448	QPSK	1	0	0	0	1	0	E2D 4	22.54
41050	41250	QPSK	1	0	0	0	1	0	E2D 4	22.25
41450	41750	QPSK	1	0	0	0	1	0	E2D 4	22.51
30750	30648	QPSK	1	0	0	0	1	0	E2D 5	16.54
40155	40053	QPSK	1	0	0	0	1	0	E2D 5	16.54
40550	40448	QPSK	1	0	0	0	1	0	E2D 5	16.45
41050	41250	QPSK	1	0	0	0	1	0	E2D 5	16.57
41450	41750	QPSK	1	0	0	0	1	0	E2D 5	16.53
30750	30648	QPSK	1	0	0	0	1	0	E2D 6	15.96
40155	40053	QPSK	1	0	0	0	1	0	E2D 6	16.63
40550	40448	QPSK	1	0	0	0	1	0	E2D 6	15.75
41050	41250	QPSK	1	0	0	0	1	0	E2D 6	15.50
41450	41750	QPSK	1	0	0	0	1	0	E2D 6	15.50

CA_4TC_Ant 5											
Combination 20MRz+20MRz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power	Measured Power	Turn up Power
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset	RB Size	RB offset				
30750	30648	QPSK	1	0	0	0	1	0	Fair	22.35	24.00
40155	40053	QPSK	1	0	0	0	1	0	Fair	22.30	24.00
40550	40448	QPSK	1	0	0	0	1	0	Fair	22.05	24.00
41050	41250	QPSK	1	0	0	0	1	0	Fair	22.48	24.00
41450	41750	QPSK	1	0	0	0	1	0	Fair	22.85	24.00
30750	30648	QPSK	1	0	0	0	1	0	E2D 2	18.92	19.00
40155	40053	QPSK	1	0	0	0	1	0	E2D 2	18.57	19.00
40550	40448	QPSK	1	0	0	0	1	0	E2D 2	18.73	20.00
41050	41250	QPSK	1	0	0	0	1	0	E2D 2	19.02	19.00
41450	41750	QPSK	1	0	0	0	1	0	E2D 2	19.31	19.00
30750	30648	QPSK	1	0	0	0	1	0	E2D 3	18.08	19.00
40155	40053	QPSK	1	0	0	0	1	0	E2D 3	17.72	19.00
40550	40448	QPSK	1	0	0	0	1	0	E2D 3	17.66	19.00
41050	41250	QPSK	1	0	0	0	1	0	E2D 3	18.04	19.00
41450	41750	QPSK	1	0	0	0	1	0	E2D 3	18.75	19.00
30750	30648	QPSK	1	0	0	0	1	0	E2D 4	22.35	24.00
40155	40053	QPSK	1	0	0	0	1	0	E2D 4	22.30	24.00
40550	40448	QPSK	1	0	0	0	1	0	E2D 4	22.05	24.00
41050	41250	QPSK	1	0	0	0	1	0	E2D 4	22.48	24.00
41450	41750	QPSK	1	0	0	0	1	0	E2D 4	22.85	24.00
30750	30648	QPSK	1	0	0	0	1	0	E2D 5	20.95	23.00
40155	40053	QPSK	1	0	0	0	1	0	E2D 5	20.60	23.00
40550	40448	QPSK	1	0	0	0	1	0	E2D 5	20.25	23.00
41050	41250	QPSK	1	0	0	0	1	0	E2D 5	20.50	23.00
41450	41750	QPSK	1	0	0	0	1	0	E2D 5	20.75	23.00
30750	30648	QPSK	1	0	0	0	1	0	E2D 6	17.58	19.00
40155	40053	QPSK	1	0	0	0	1	0	E2D 6	17.23	19.00
40550	40448	QPSK	1	0	0	0	1	0	E2D 6	17.17	19.00
41050	41250	QPSK	1	0	0	0	1	0	E2D 6	17.42	19.00
41450	41750	QPSK	1	0	0	0	1	0	E2D 6	17.75	19.00

CA_n41C_Ant 2 Combination 100MHz+40MHz											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	time up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset						
509202	523146	QPSK	180	93	6	0	186	≤0	Default	22.43	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	Default	22.39	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	Default	22.46	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 2	22.76	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 2	22.74	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 2	22.81	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 3	20.00	21.50
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 3	19.99	21.50
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 3	20.14	21.50
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 4	22.43	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 4	22.39	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 4	22.46	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 6	20.43	22.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 6	20.46	22.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 6	20.50	22.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 7	17.54	19.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 7	17.49	19.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 7	17.65	19.00

CA_n41C_Ant 9 Combination 100MHz+40MHz											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	time up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset						
509202	523146	QPSK	180	93	6	0	186	≤0	Default	22.64	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	Default	22.48	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	Default	22.77	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 2	16.07	17.50
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 2	15.94	17.50
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 2	16.21	17.50
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 3	16.56	17.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 3	15.46	17.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 3	15.77	17.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 4	22.64	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 4	22.48	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 4	22.67	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 6	21.06	22.50
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 6	20.82	22.50
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 6	21.11	22.50
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 7	13.50	15.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 7	13.41	15.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 7	13.59	15.00

CA_n41C_Ant 1 Combination 100MHz+40MHz											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	time up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset						
509202	523146	QPSK	180	93	6	0	186	≤0	Default	22.68	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	Default	22.67	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	Default	22.71	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 2	13.72	15.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 2	13.68	15.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 2	13.73	15.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 3	16.69	18.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 3	16.58	18.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 3	16.73	18.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 4	22.68	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 4	22.67	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 4	22.71	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 6	17.33	18.50
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 6	17.29	18.50
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 6	17.50	18.50
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 7	13.50	15.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 7	13.22	13.50
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 7	13.28	13.50

CA_n41C_Ant 8 Combination 100MHz+40MHz											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	time up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset						
509202	523146	QPSK	180	93	6	0	186	≤0	Default	22.43	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	Default	22.66	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	Default	22.74	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 2	22.43	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 2	22.66	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 2	22.74	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 3	22.05	23.50
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 3	22.26	23.50
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 3	22.27	23.50
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 4	22.43	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 4	22.66	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 4	22.74	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 6	22.43	24.00
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 6	22.66	24.00
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 6	22.74	24.00
509202	523146	QPSK	180	93	6	0	186	≤0	ECI 7	22.05	23.50
514602	528546	QPSK	180	93	6	0	186	≤0	ECI 7	22.26	23.50
520956	534000	QPSK	180	93	6	0	186	≤0	ECI 7	22.27	23.50

CA_n77C_Part270_Ant 7 Combination 100MHz+40MHz											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	time up Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset						
650000	654648	QPSK	180	93	6	0	186	≤0	Default	22.42	24.00
654678	659326	QPSK	180	93	6	0	186	≤0	Default	22.39	24.00
648000	652648	QPSK	180	93	6	0	186	≤0	Default	22.28	24.00
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 2	11.93	13.50
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 2	11.83	13.50
648000	652648	QPSK	180	93	6	0	186	≤0	ECI 2	11.75	13.50
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 3	13.40	15.00
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 3	13.37	15.00
648000	652648	QPSK	180	93	6	0	186	≤0	ECI 3	13.16	15.00
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 4	22.42	24.00
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 4	22.39	24.00
648000	652648	QPSK	180	93	6	0	186	≤0	ECI 4	22.28	24.00
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 6	15.81	17.50
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 6	15.79	17.50
648000	652648	QPSK	180	93	6	0	186	≤0	ECI 6	15.73	17.50
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 7	10.95	12.50
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 7	10.77	12.50
648000	652648	QPSK	180	93	6	0	186	≤0	ECI 7	10.70	12.50

CA_n77C Part270_Ant 5											
Combination 100MHz+40MHz											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
650000	654648	QPSK	180	93	6	0	186	≤0	Default	22.72	24.00
654678	659326	QPSK	180	93	6	0	186	≤0	Default	22.58	24.00
648000	652648	QPSK	180	93	6	0	186	≤0	Default	22.42	24.00
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 2	11.16	12.50
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 2	10.97	12.50
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 3	15.15	16.50
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 3	15.05	16.50
650000	652648	QPSK	180	93	6	0	186	≤0	ECI 3	14.96	16.50
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 4	22.72	24.00
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 4	22.58	24.00
648000	652648	QPSK	180	93	6	0	186	≤0	ECI 4	22.52	24.00
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 6	15.77	17.00
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 6	15.51	17.00
650000	652648	QPSK	180	93	6	0	186	≤0	ECI 6	15.46	17.00
650000	654648	QPSK	180	93	6	0	186	≤0	ECI 7	13.63	15.00
654678	659326	QPSK	180	93	6	0	186	≤0	ECI 7	13.58	15.00
648000	652648	QPSK	180	93	6	0	186	≤0	ECI 7	13.40	15.00