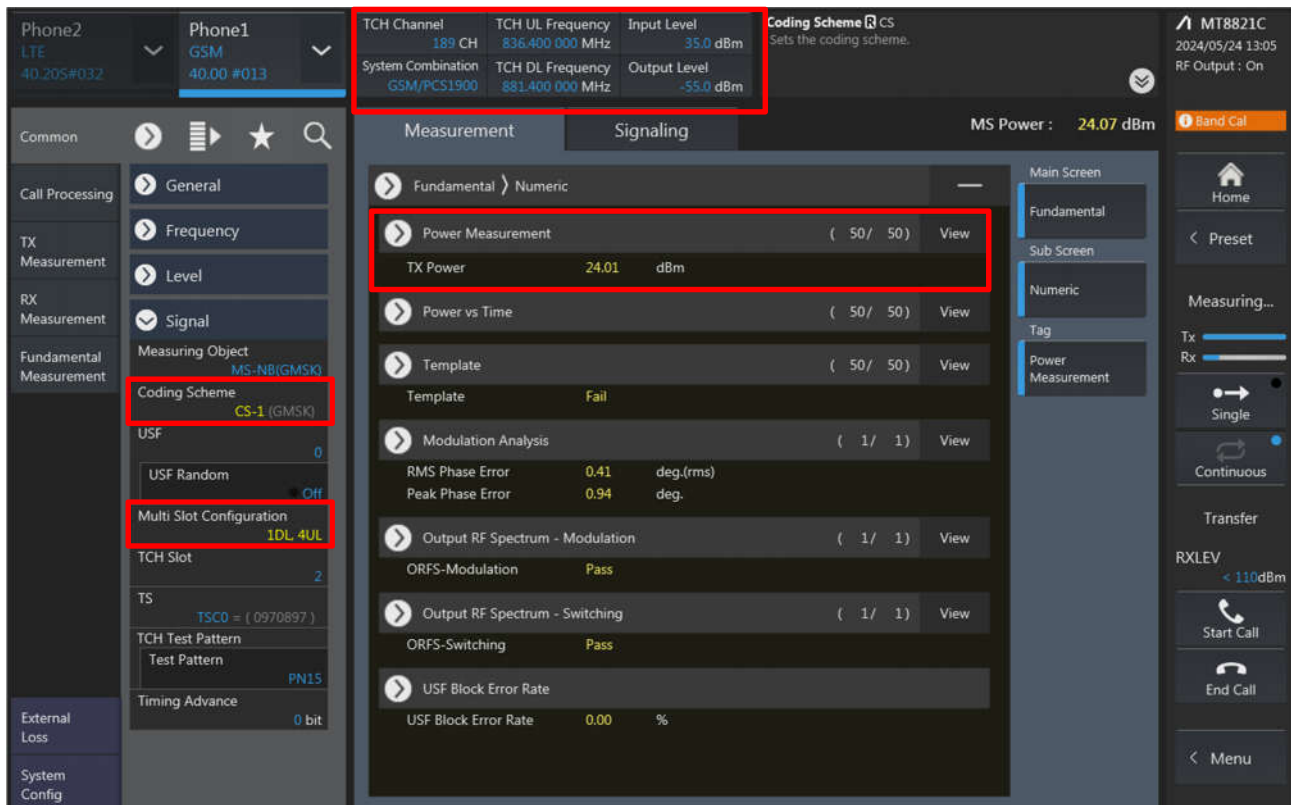


Power measurement connection diagram:

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.

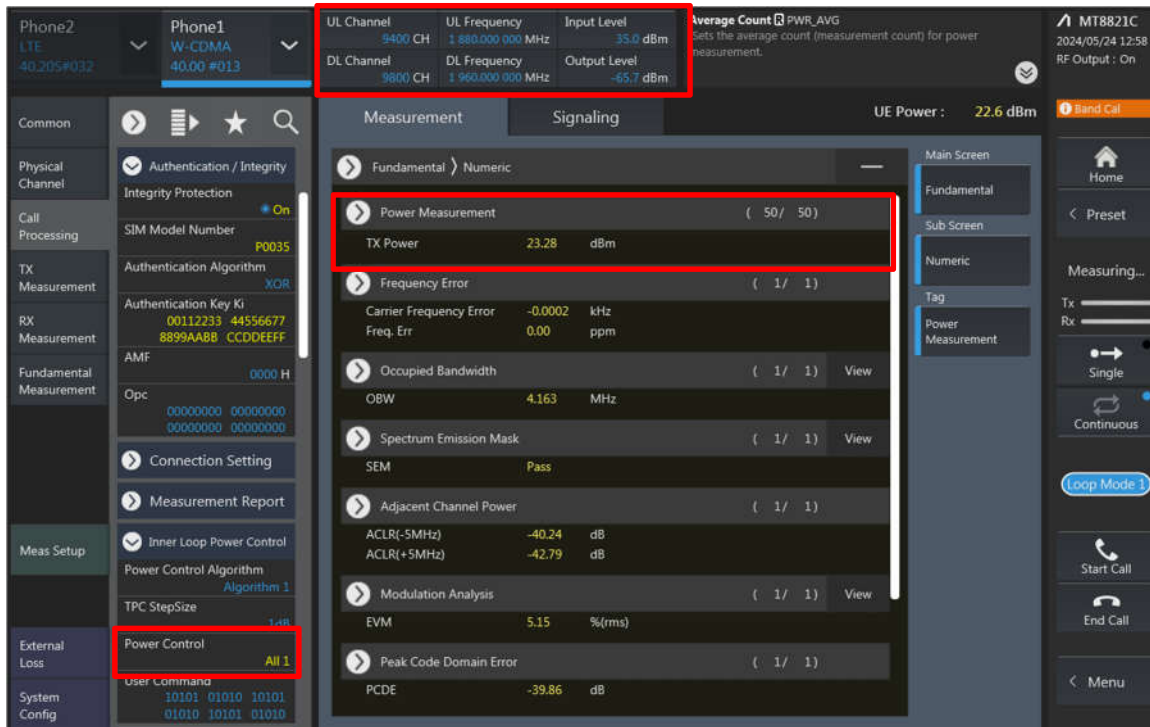
<GSM>



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

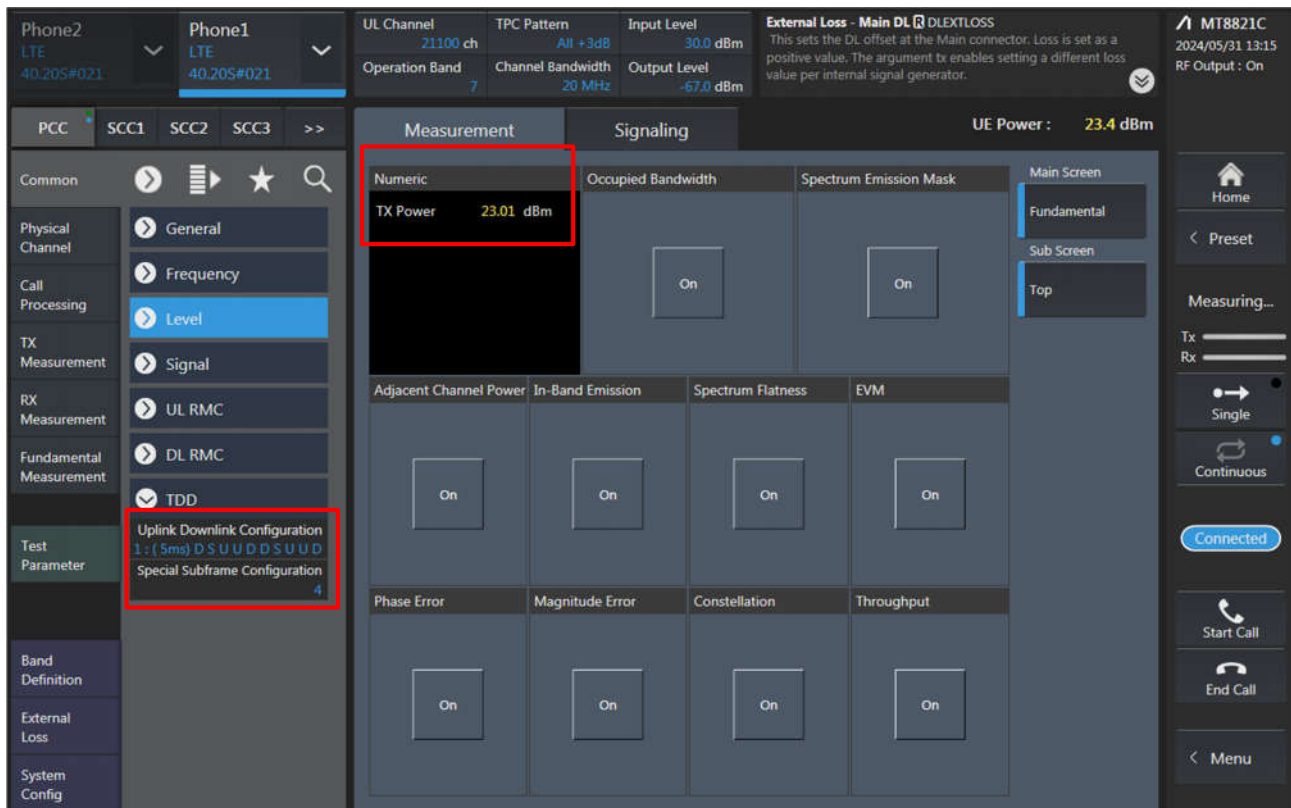
- Top Bar:** Shows Phone2 (LTE 40.205#032) and Phone1 (GSM 40.00 #013). The TCH Channel is 189 CH, TCH UL Frequency is 836.400 000 MHz, Input Level is 35.0 dBm, TCH DL Frequency is 881.400 000 MHz, and Output Level is -55.0 dBm. The Coding Scheme is CS.
- Left Sidebar:** Contains navigation options like Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. The 'Fundamental Measurement' section is expanded, showing 'Coding Scheme' as CS-1 (GMSK) and 'Multi Slot Configuration' as 1DL, 4UL.
- Main Area:** Displays 'Measurement' and 'Signaling' tabs. The 'Measurement' tab is active, showing 'Power Measurement' with a value of 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 'MT8821C' with a date/time of 2024/05/24 13:05 and 'RF Output : On'. It also includes a 'Band Cal' button and a 'Main Screen' section with 'Fundamental', 'Sub Screen', 'Numeric', and 'Tag' options.

<WCDMA>



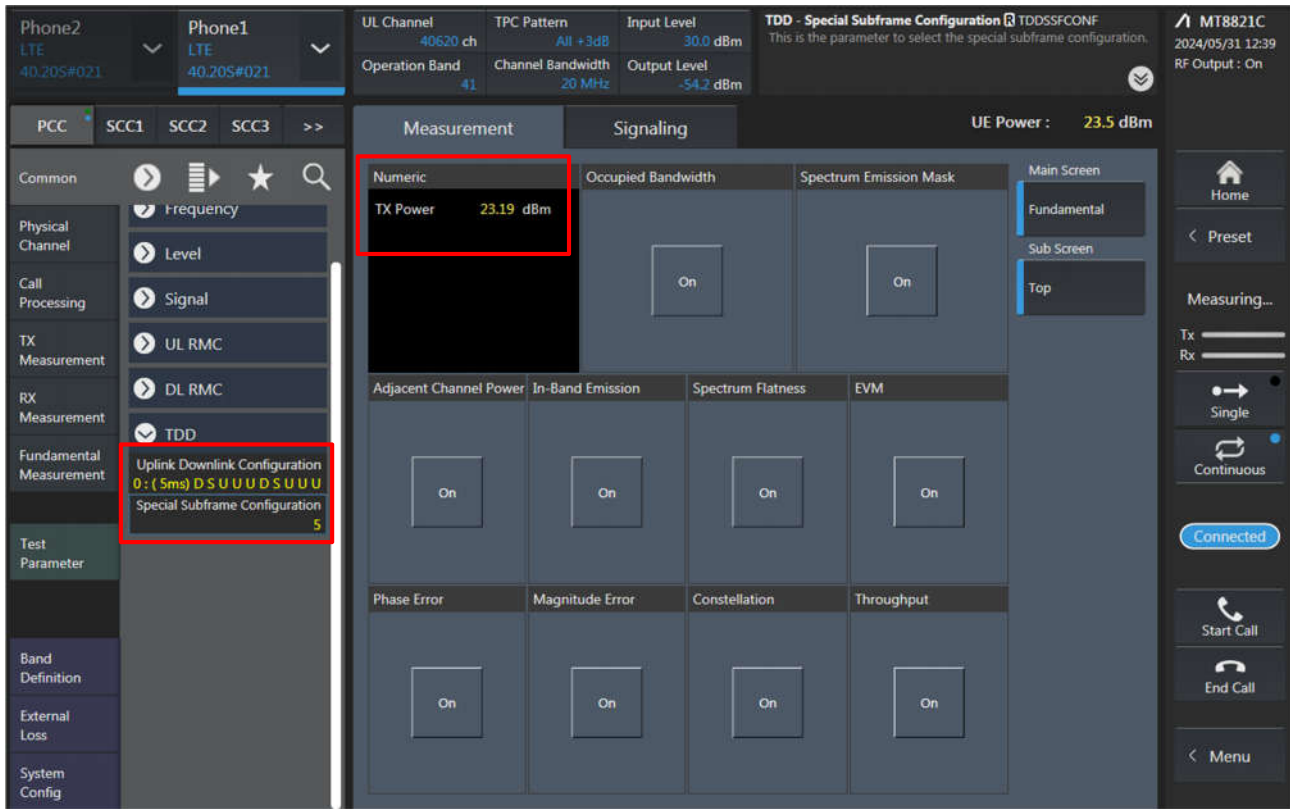
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.205#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing various parameters. A red box highlights the 'UL Channel' (9400 CH), 'UL Frequency' (1 880.000 000 MHz), 'Input Level' (35.0 dBm), '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), 'Modulation Analysis' (5.15 %/rms), and 'Peak Code Domain Error' (-39.86 dB). The 'Meas Setup' section shows 'Power Control' (All 1) and '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 'Test Parameter' section shows 'Uplink Downlink Configuration 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
TDDSSFCNF
This is the parameter to select the special subframe configuration.

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

PCC SCC1 SCC2 SCC3 >>

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

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

Special Subframe Configuration
5

Measurement

Signaling

UE Power : 23.5 dBm

Numeric

TX Power 23.19 dBm

Occupied Bandwidth

Spectrum Emission Mask

Main Screen

Fundamental

Sub Screen

Top

Adjacent Channel Power

In-Band Emission

Spectrum Flatness

EVM

Phase Error

Magnitude Error

Constellation

Throughput

Home

Preset

Measuring...

Tx

Rx

Single

Continuous

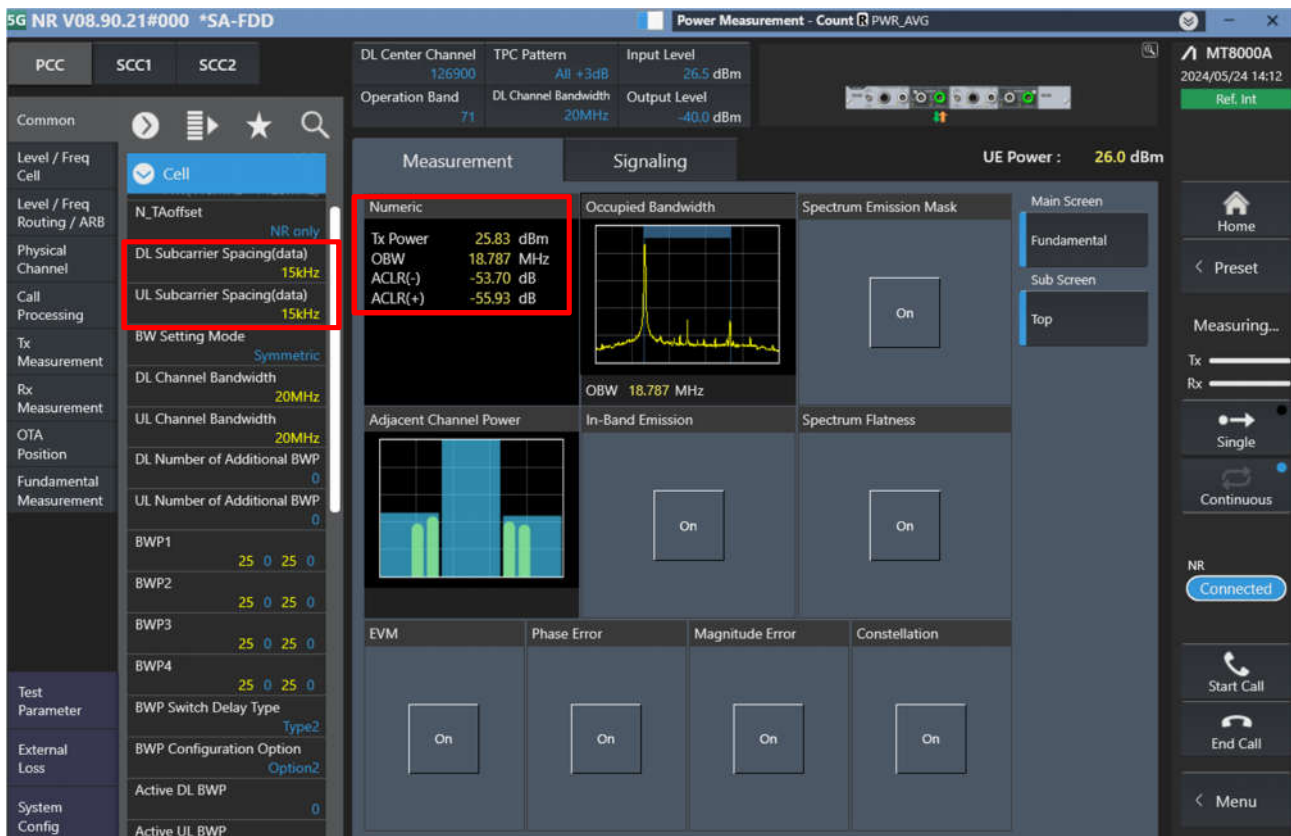
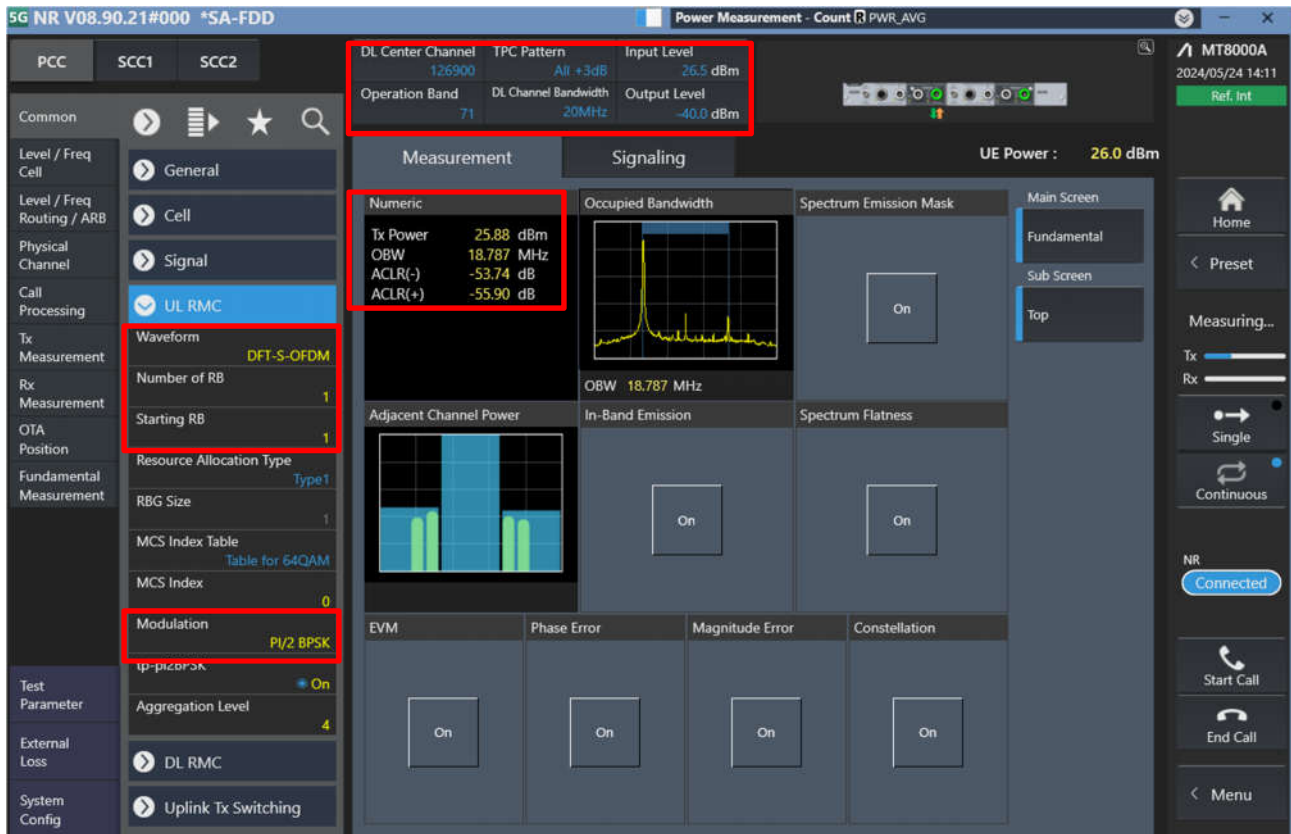
Connected

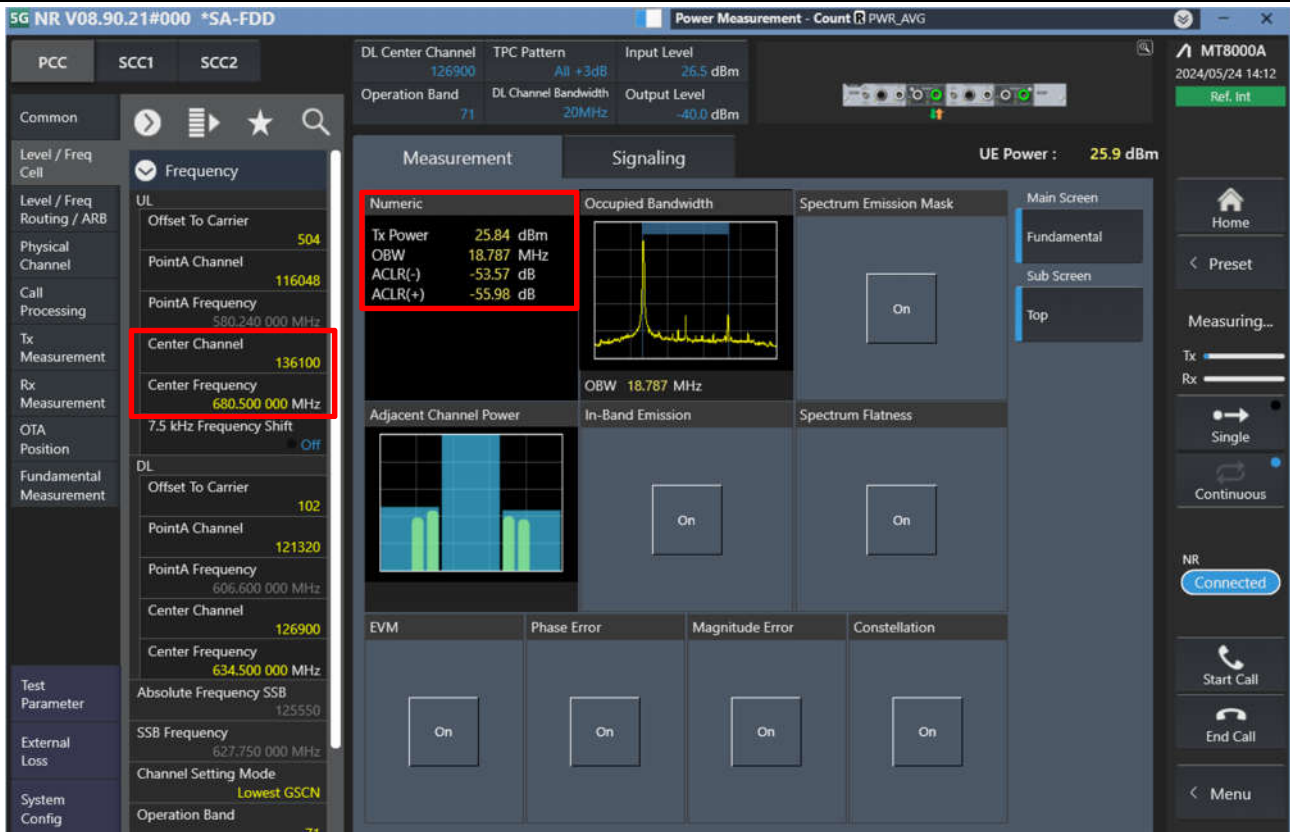
Start Call

End Call

Menu

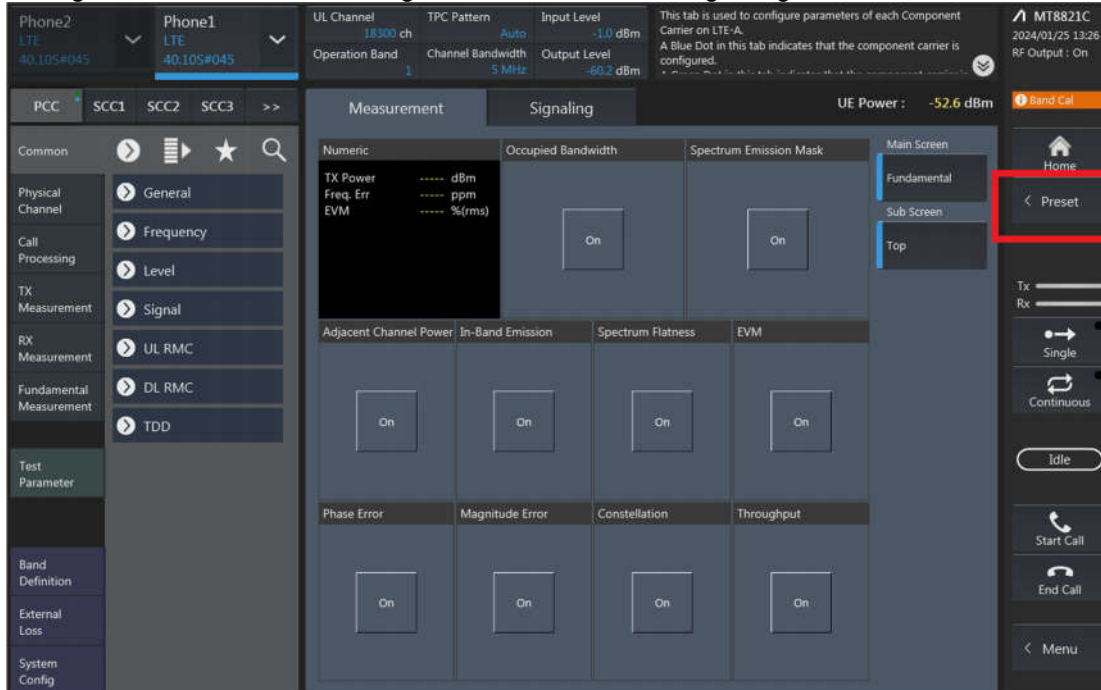
<5G NR FR1>





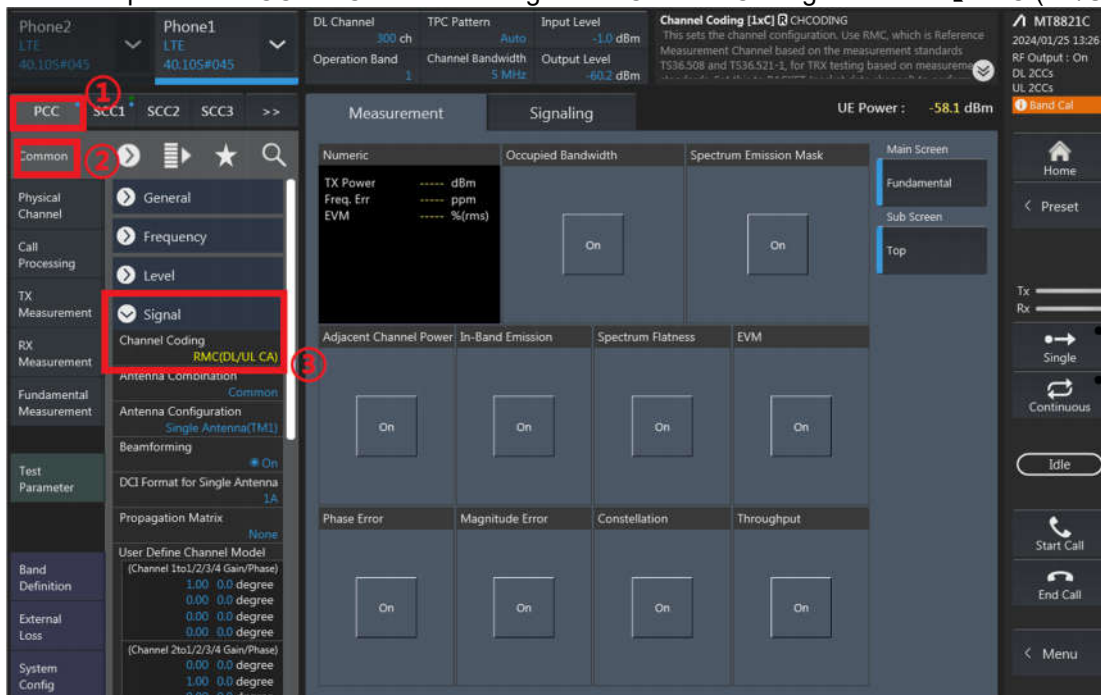
LTE Uplink and Downlink Carrier Aggregation configurations:

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

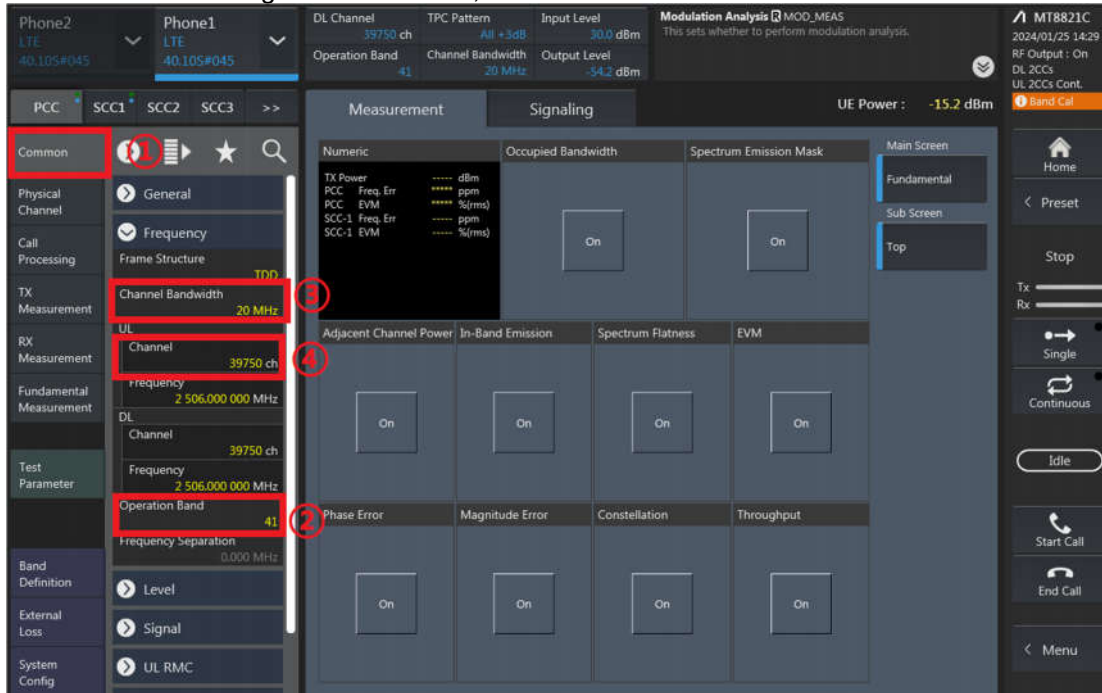


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

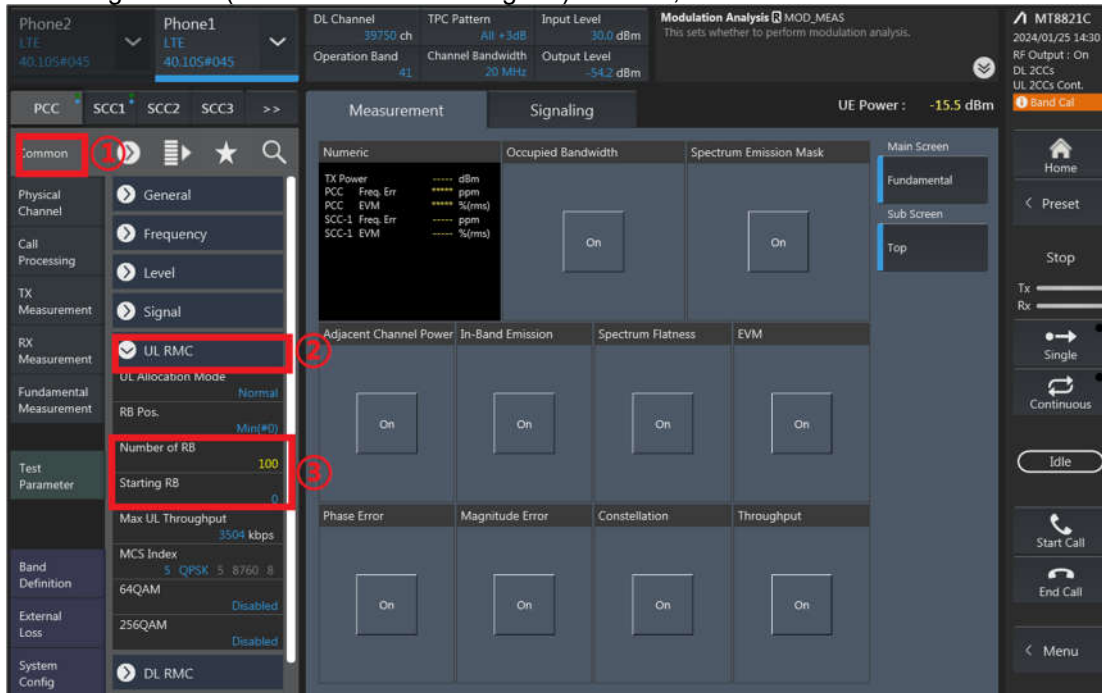
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



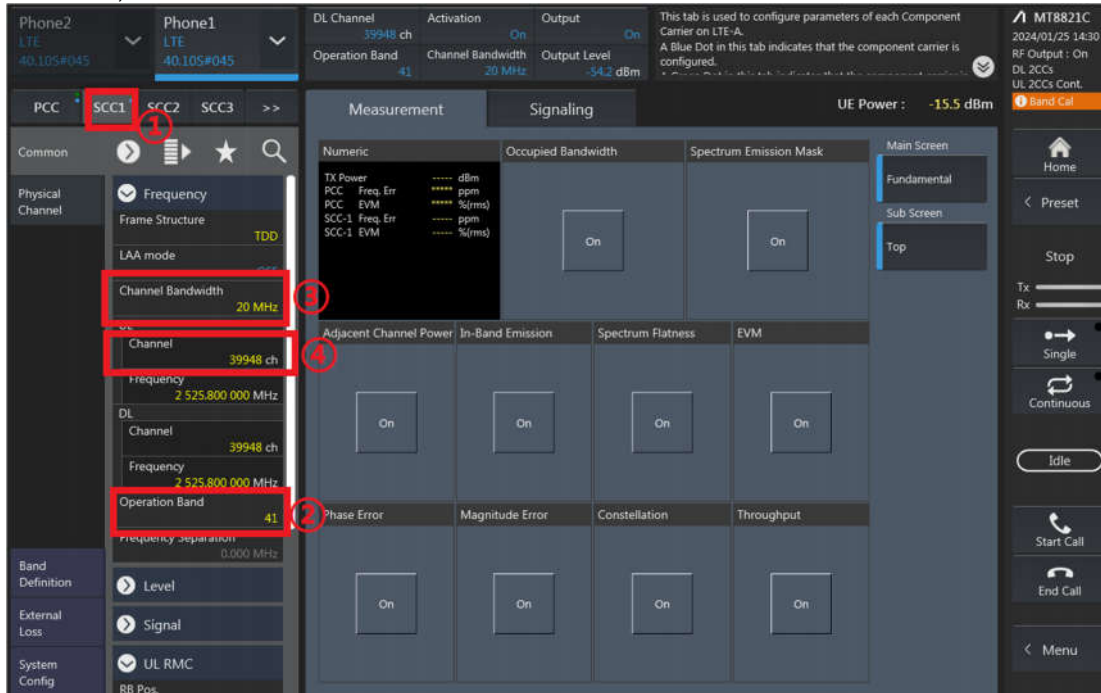
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



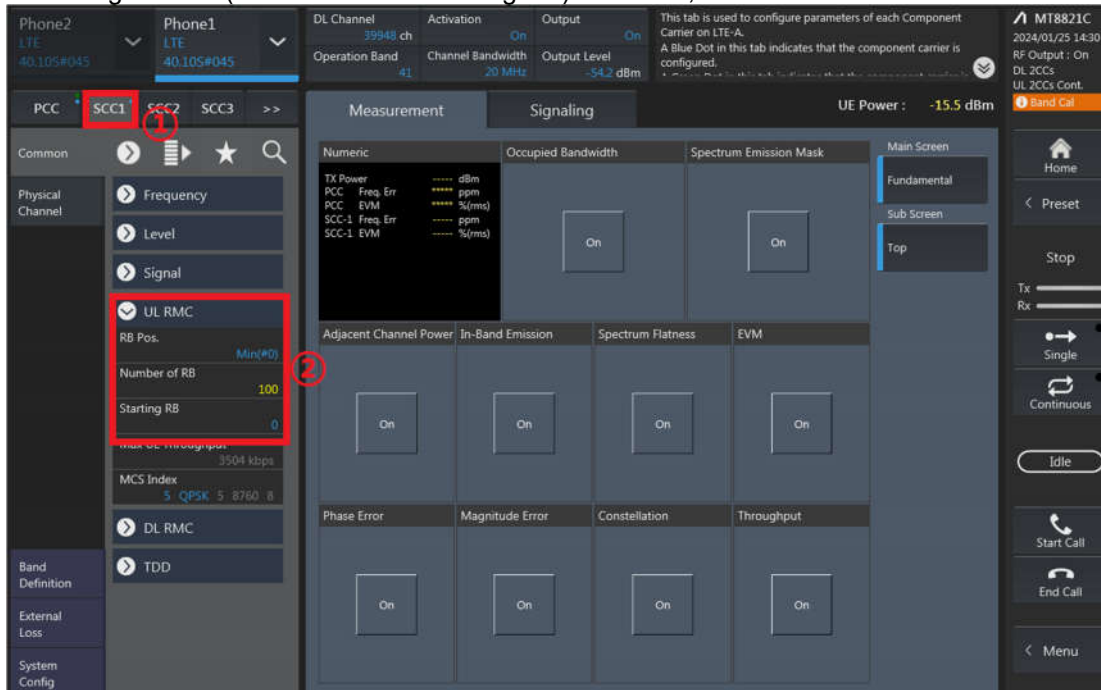
RB configurations (Number of RB / Starting RB) for PCC;



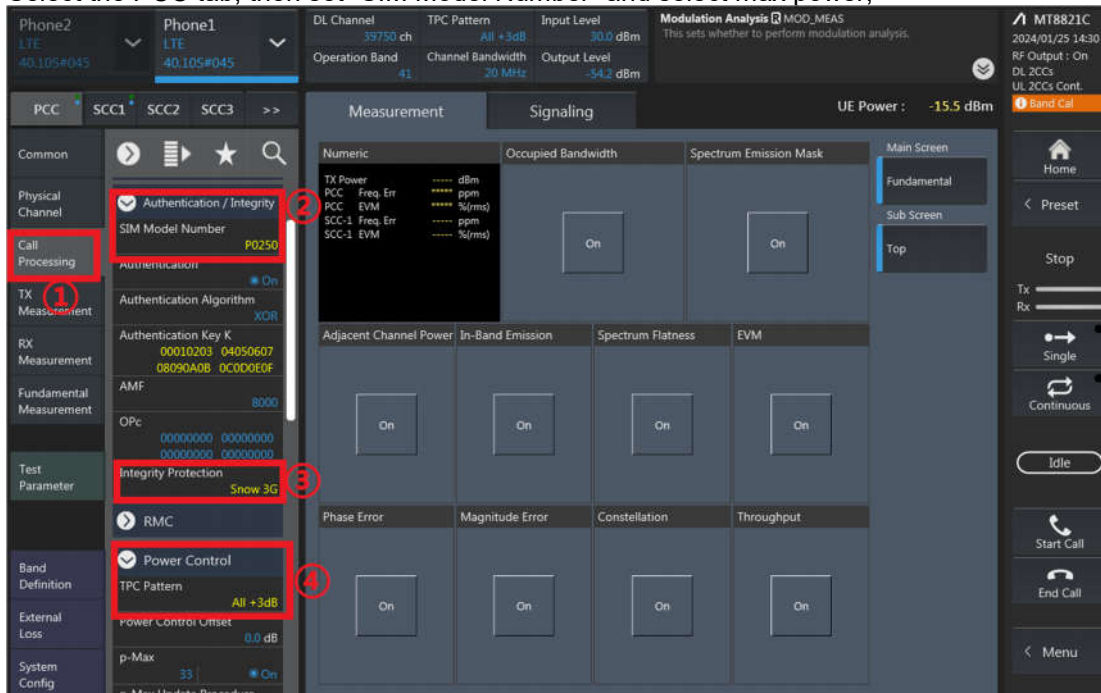
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



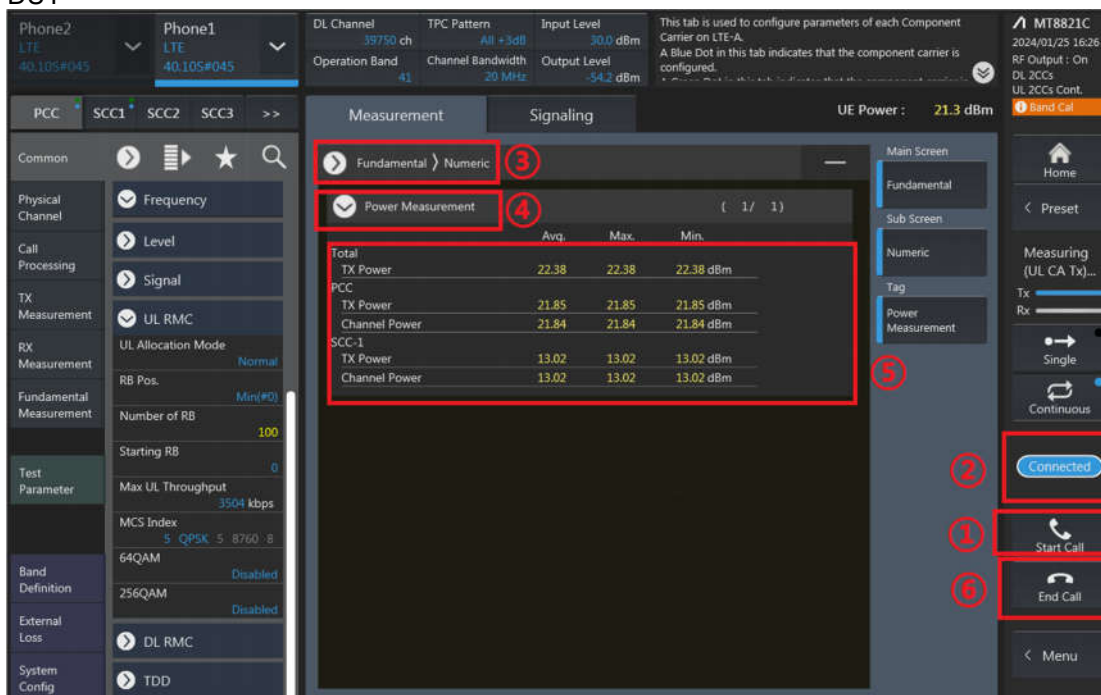
RB configurations (Number of RB / Starting RB) for SCC1;



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 DLCA test method is similar to intra-band ULCA too.

Uplink CA Power

CA_3SC_Ant 1											
Combination 20MHz+20MHz (100RB+100RB)											
PCF Channel	SCC Channel	Modulation	PCF		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
3750	38048	QPSK	1	0	0	0	1	0	Full Power	22.95	24.50
3750	38099	QPSK	1	0	0	0	1	0	Full Power	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	Full Power	23.00	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI11	18.39	19.50
3750	38099	QPSK	1	0	0	0	1	0	ECI11	18.34	19.50
38150	37952	QPSK	1	0	0	0	1	0	ECI11	18.41	19.50
3750	38048	QPSK	1	0	0	0	1	0	ECI12	17.82	19.00
3750	38099	QPSK	1	0	0	0	1	0	ECI12	17.85	19.00
38150	37952	QPSK	1	0	0	0	1	0	ECI12	17.90	19.00
3750	38048	QPSK	1	0	0	0	1	0	ECI13	22.95	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI13	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI13	23.00	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI14	21.43	23.00
3750	38099	QPSK	1	0	0	0	1	0	ECI14	21.40	23.00
38150	37952	QPSK	1	0	0	0	1	0	ECI14	21.47	23.00
3750	38048	QPSK	1	0	0	0	1	0	ECI15	22.95	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI15	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI15	22.95	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI16	22.95	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI16	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI16	22.95	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI17	22.95	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI17	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI17	23.00	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI18	22.95	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI18	22.95	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI18	22.92	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI18	23.00	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI17	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI17	22.95	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI18	22.95	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI18	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI19	20.98	22.50

CA_3SC_Ant 2											
Combination 20MHz+20MHz (100RB+100RB)											
PCF Channel	SCC Channel	Modulation	PCF		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
3750	38048	QPSK	1	0	0	0	1	0	Full Power	23.56	24.50
3750	38099	QPSK	1	0	0	0	1	0	Full Power	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	Full Power	23.59	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI11	23.56	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI11	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI11	23.59	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI12	23.56	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI12	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI12	23.59	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI13	23.56	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI13	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI13	23.59	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI14	23.56	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI14	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI14	23.59	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI15	23.56	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI15	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI15	23.59	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI16	23.56	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI16	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI16	23.59	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI17	23.10	24.00
3750	38099	QPSK	1	0	0	0	1	0	ECI17	23.12	24.00
38150	37952	QPSK	1	0	0	0	1	0	ECI17	23.15	24.00
3750	38048	QPSK	1	0	0	0	1	0	ECI18	21.53	22.50
3750	38099	QPSK	1	0	0	0	1	0	ECI18	21.50	22.50
38150	37952	QPSK	1	0	0	0	1	0	ECI18	21.58	22.50
3750	38048	QPSK	1	0	0	0	1	0	ECI19	21.52	22.50
3750	38099	QPSK	1	0	0	0	1	0	ECI19	21.55	22.50
38150	37952	QPSK	1	0	0	0	1	0	ECI19	21.60	22.50

CA_3SC_Ant 4											
Combination 20MHz+20MHz (100RB+100RB)											
PCF Channel	SCC Channel	Modulation	PCF		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
3750	38048	QPSK	1	0	0	0	1	0	Full Power	23.20	24.50
3750	38099	QPSK	1	0	0	0	1	0	Full Power	23.12	24.50
38150	37952	QPSK	1	0	0	0	1	0	Full Power	23.15	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI11	18.51	20.00
3750	38099	QPSK	1	0	0	0	1	0	ECI11	18.44	20.00
38150	37952	QPSK	1	0	0	0	1	0	ECI11	18.52	20.00
3750	38048	QPSK	1	0	0	0	1	0	ECI12	18.00	19.50
3750	38099	QPSK	1	0	0	0	1	0	ECI12	17.95	19.50
38150	37952	QPSK	1	0	0	0	1	0	ECI12	17.90	19.50
3750	38048	QPSK	1	0	0	0	1	0	ECI13	23.20	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI13	23.12	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI13	23.15	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI14	23.20	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI14	23.12	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI14	23.15	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI15	23.20	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI15	23.12	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI15	23.15	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI16	23.15	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI16	23.20	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI16	23.12	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI17	23.12	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI17	23.15	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI17	23.12	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI18	23.12	24.50
3750	38099	QPSK	1	0	0	0	1	0	ECI18	23.15	24.50
38150	37952	QPSK	1	0	0	0	1	0	ECI18	23.15	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI19	22.12	23.50
3750	38099	QPSK	1	0	0	0	1	0	ECI19	22.10	23.50
38150	37952	QPSK	1	0	0	0	1	0	ECI19	22.10	23.50

CA_41C_Ant 1											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
3750	38048	QPSK	1	0	0	0	1	0	Full Power	23.12	24.50
40185	39697	QPSK	1	0	0	0	1	0	Full Power	22.99	24.50
40620	40422	QPSK	1	0	0	0	1	0	Full Power	23.45	24.50
41055	40857	QPSK	1	0	0	0	1	0	Full Power	23.13	24.50
41490	41250	QPSK	1	0	0	0	1	0	Full Power	23.49	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI11	18.16	19.50
40185	39697	QPSK	1	0	0	0	1	0	ECI11	18.25	19.50
40620	40422	QPSK	1	0	0	0	1	0	ECI11	18.39	19.50
41055	40857	QPSK	1	0	0	0	1	0	ECI11	18.47	19.50
41490	41250	QPSK	1	0	0	0	1	0	ECI11	18.49	19.50
3750	38048	QPSK	1	0	0	0	1	0	ECI12	17.78	19.00
40185	39697	QPSK	1	0	0	0	1	0	ECI12	17.82	19.00
40620	40422	QPSK	1	0	0	0	1	0	ECI12	17.88	19.00
41055	40857	QPSK	1	0	0	0	1	0	ECI12	17.92	19.00
41490	41250	QPSK	1	0	0	0	1	0	ECI12	17.95	19.00
3750	38048	QPSK	1	0	0	0	1	0	ECI13	23.12	24.50
40185	39697	QPSK	1	0	0	0	1	0	ECI13	22.99	24.50
40620	40422	QPSK	1	0	0	0	1	0	ECI13	23.45	24.50
41055	40857	QPSK	1	0	0	0	1	0	ECI13	23.13	24.50
41490	41250	QPSK	1	0	0	0	1	0	ECI13	23.49	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI14	21.88	23.00
40185	39697	QPSK	1	0	0	0	1	0	ECI14	21.83	23.00
40620	40422	QPSK	1	0	0	0	1	0	ECI14	21.92	23.00
41055	40857	QPSK	1	0	0	0	1	0	ECI14	21.90	23.00
41490	41250	QPSK	1	0	0	0	1	0	ECI14	22.02	23.00
3750	38048	QPSK	1	0	0	0	1	0	ECI15	23.12	24.50
40185	39697	QPSK	1	0	0	0	1	0	ECI15	22.99	24.50
40620	40422	QPSK	1	0	0	0	1	0	ECI15	23.45	24.50
41055	40857	QPSK	1	0	0	0	1	0	ECI15	23.13	24.50
41490	41250	QPSK	1	0	0	0	1	0	ECI15	23.49	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI16	23.12	24.50
40185	39697	QPSK	1	0	0	0	1	0	ECI16	22.99	24.50
40620	40422	QPSK	1	0	0	0	1	0	ECI16	23.45	24.50
41055	40857	QPSK	1	0	0	0	1	0	ECI16	23.13	24.50
41490	41250	QPSK	1	0	0	0	1	0	ECI16	23.49	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI17	23.12	24.50
40185	39697	QPSK	1	0	0	0	1	0	ECI17	22.99	24.50
40620	40422	QPSK	1	0	0	0	1	0	ECI17	23.45	24.50
41055	40857	QPSK	1	0	0	0	1	0	ECI17	23.13	24.50
41490	41250	QPSK	1	0	0	0	1	0	ECI17	23.45	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI18	23.12	24.50
40185	39697	QPSK	1	0	0	0	1	0	ECI18	22.99	24.50
40620	40422	QPSK	1	0	0	0	1	0	ECI18	23.45	24.50
41055	40857	QPSK	1	0	0	0	1	0	ECI18	23.13	24.50
41490	41250	QPSK	1	0	0	0	1	0	ECI18	23.49	24.50
3750	38048	QPSK	1	0	0	0	1	0	ECI19	20.91	22.50
40185	39697	QPSK	1	0	0	0	1	0	ECI19	20.90	22.50
40620	40422	QPSK	1	0	0	0	1	0	ECI19	21.12	22.50
41055	40857	QPSK	1	0	0	0	1	0	ECI19	20.95	22.50
41490	41250	QPSK	1	0	0	0	1	0	ECI19	21.20	22.50

Downlink CA 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 (dBm)
Inter-Band		CA_5A-7A	Band 5	10	829	20450	QPSK	1	0	Band 7	20	2655	3100	23.67	23.87
		CA_4A-7A	Band 4	20	1732.5	20175	QPSK	1	0	Band 7	20	2655	3100	23.23	23.40
		CA_2A-5A	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	23.30	23.55
		CA_4A-5A	Band 4	20	1732.5	20175	QPSK	1	0	Band 5	10	881.5	2525	23.23	23.40
		CA_2A-12A	Band 2	20	1880	18900	QPSK	1	0	Band 12	10	737.5	5095	23.30	23.55
		CA_4A-12A	Band 4	20	1732.5	20175	QPSK	1	0	Band 12	10	737.5	5095	23.30	23.40
		CA_2A-7A	Band 2	20	1880	18900	QPSK	1	0	Band 7	20	2655.00	3100	23.44	23.55
		CA_2A-17A	Band 17	10	710	23790	QPSK	1	0	Band 2	10	1960.00	900	23.57	23.67
		CA_4A-17A	Band 17	10	710	23790	QPSK	1	0	Band 4	10	2132.50	2175	23.49	23.67
Intra-Band	Non-Contiguous	CA_7A-7A	Band 7	20	2535	21100	QPSK	1	0	Band 7	20	2680	3350	23.66	23.86
		CA_41A-41A	Band 41	20	2593	40620	QPSK	1	0	Band 41	20	2506	39750	23.70	23.81
		CA_66B	Band 66	10	1750.1	132373	QPSK	1	0	Band 66	10	2160	66936	23.25	23.48
	Contiguous	CA_38C	Band 38	20	2580	37850	QPSK	1	0	Band 38	20	2599.8	38048	23.57	23.75

3CC																			
Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				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	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx-Power (dBm)	W/O CA Tx-Power (dBm)
Inter-Band		CA_7C-66A	Band 7	20	2535	21100	QPSK	1	0	Band 7	20	2674.8	3298	Band 66	20	2155	66886	23.68	23.86
		CA_5A-7C	Band 5	10	829	20450	QPSK	1	0	Band 7	20	2655	3100	Band 7	20	2674.8	3298	23.67	23.87
		CA_4A-7C	Band 4	20	1732.5	20175	QPSK	1	0	Band 7	20	2655	3100	Band 7	20	2674.8	3298	23.26	23.40
		CA_2A-66C	Band 2	20	1880	18900	QPSK	1	0	Band 66	20	2155	66886	Band 66	20	2174.8	67084	23.40	23.55
		CA_5A-66A-66A	Band 5	10	829	20450	QPSK	1	0	Band 66	20	2120	66536	Band 66	20	2190	67236	23.80	23.87
		CA_12A-66A-66A	Band 12	10	707.5	23095	QPSK	1	0	Band 66	20	2120	66536	Band 66	20	2190	67236	23.66	23.72
		CA_12A-66C	Band 12	10	707.5	23095	QPSK	1	0	Band 66	20	2155	66886	Band 66	20	2174.8	67084	23.47	23.72
		CA_2C-66A	Band 2	20	1870.1	18801	QPSK	1	0	Band 2	20	1969.9	999	Band 66	20	2155	66886	23.50	23.55
		CA_7A-66A-66A	Band 7	20	2535	21100	QPSK	1	0	Band 66	20	2120	66536	Band 66	20	2190	67236	23.66	23.86
		CA_2A-2A-71A	Band 2	20	1880	18900	QPSK	1	0	Band 2	5	1932.5	625	Band 71	20	637	68786	23.35	23.55
		CA_4A-4A-71A	Band 4	20	1745	20300	QPSK	1	0	Band 4	5	2112.5	1975	Band 71	20	637	68786	23.34	23.40
		CA_2A-4A-71A	Band 2	20	1880	18900	QPSK	1	0	Band 4	5	2112.5	1975	Band 71	20	637	68786	23.49	23.55
		CA_2A-66A-71A	Band 2	20	1880	18900	QPSK	1	0	Band 66	20	2155	66886	Band 71	20	637	68786	23.35	23.55
		CA_66A-66A-71A	Band 66	20	2155	132422	QPSK	1	0	Band 66	5	2197.5	67311	Band 71	20	637	68786	23.27	23.48
		CA_66C-71A	Band 66	20	2155	132422	QPSK	1	0	Band 66	20	2174.8	67084	Band 71	20	637	68786	23.37	23.48
Intra-Band	Non-Contiguous	CA_41A-41C	Band 41	20	2549.5	40185	QPSK	1	0	Band 41	20	2660.2	41292	Band 41	20	2680	41490	23.67	23.81
	Contiguous	CA_41D	Band 41	20	2549.5	40185	QPSK	1	0	Band 41	20	2640.4	41094	Band 41	20	2660.2	41292	23.59	23.81