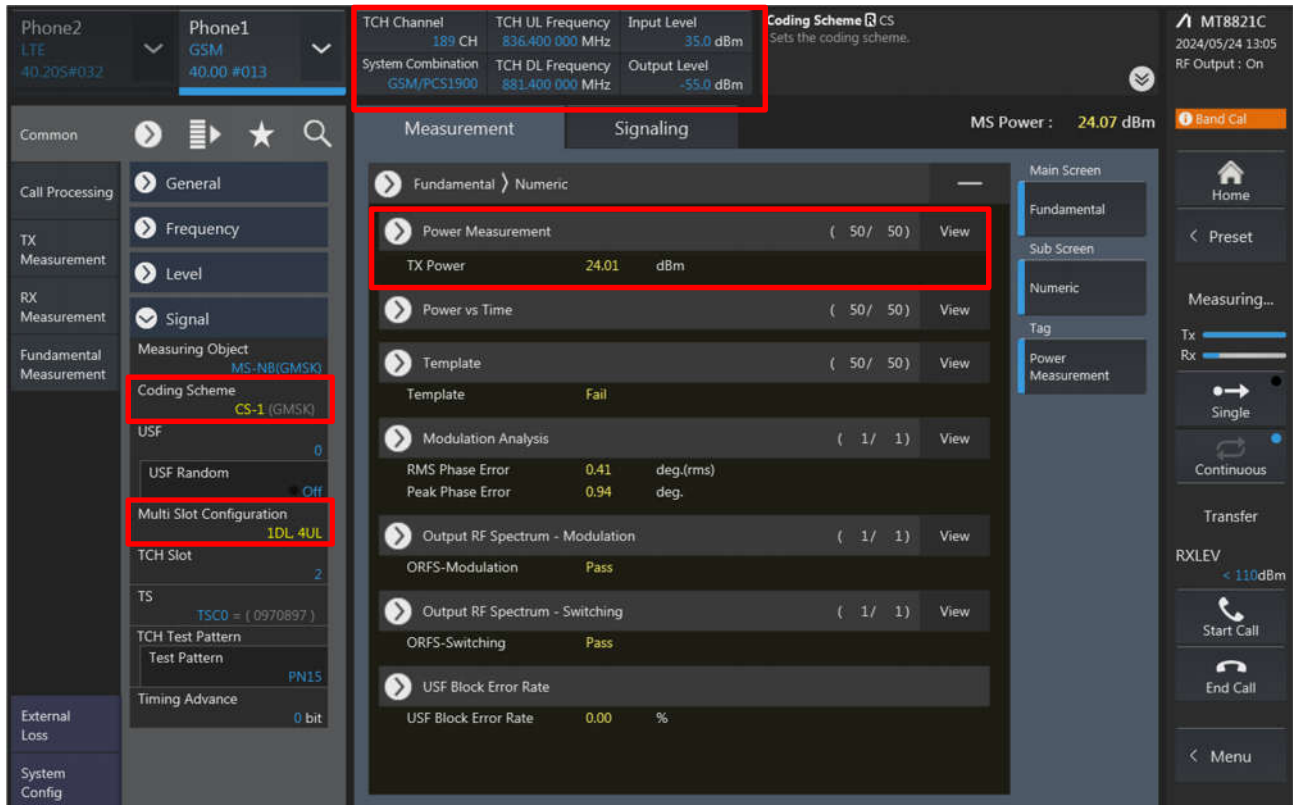


Power measurement connection diagram:

The power measurement for 2G/3G/LTE/5G FR1 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 and DL CA.

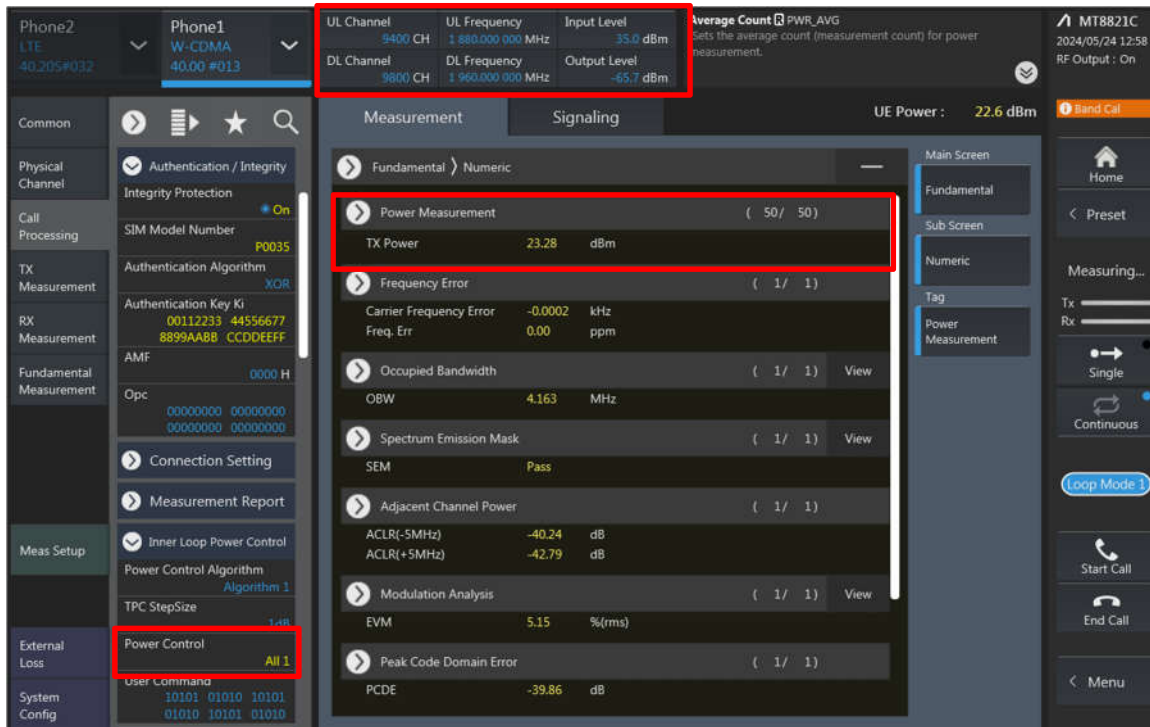
<GSM>



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

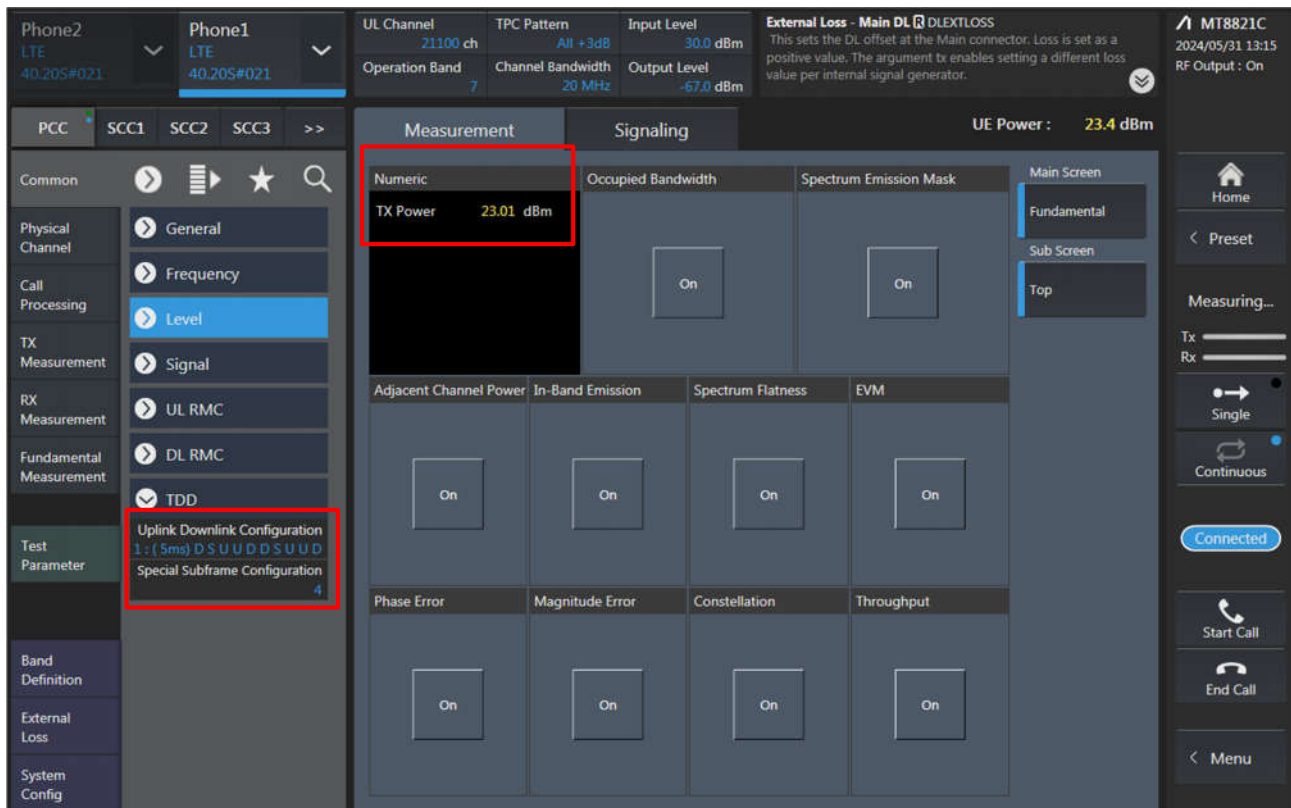
- Top Bar:** Shows Phone2 (LTE 40.205#032) and Phone1 (GSM 40.00 #013). A red box highlights the TCH Channel (189 CH), TCH UL Frequency (836.400 000 MHz), Input Level (35.0 dBm), System Combination (GSM/PCS1900), TCH DL Frequency (881.400 000 MHz), and Output Level (-55.0 dBm). Another red box highlights the Coding Scheme (CS).
- Left Sidebar:** Contains navigation options like Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. A red box highlights the Coding Scheme (CS-1 (GMSK)) and Multi Slot Configuration (1DL, 4UL).
- Main Area:** Displays measurement results under the 'Measurement' tab. A red box highlights the 'Power Measurement' section, showing TX Power (24.01 dBm). Other sections include Power vs Time, Template, Modulation Analysis, Output RF Spectrum - Modulation, Output RF Spectrum - Switching, and USF Block Error Rate.
- Right Sidebar:** Shows the MT8821C device, date/time (2024/05/24 13:05), RF Output (On), and various control buttons like Home, Preset, Measuring..., Single, Continuous, Transfer, RXLEV, Start Call, End Call, and Menu.

<WCDMA>



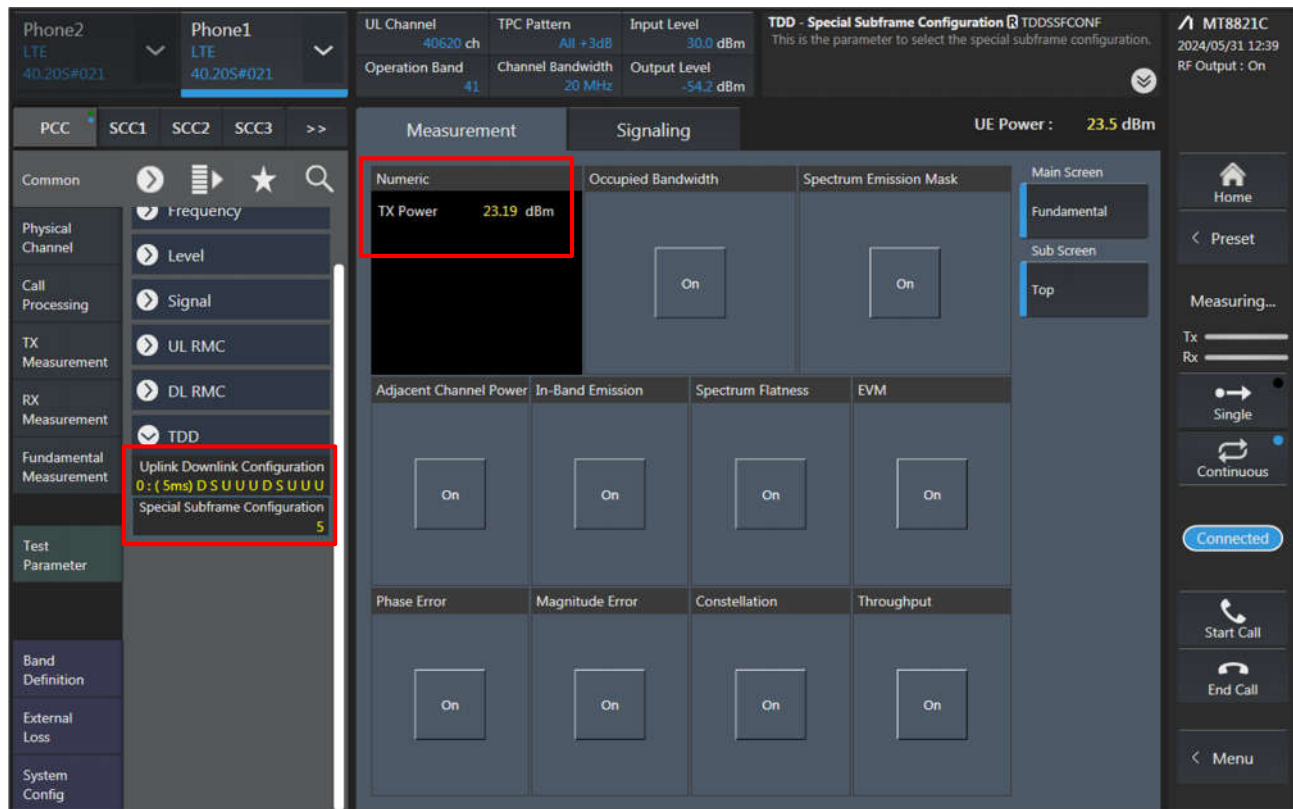
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.205#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing a list of metrics. A red box highlights the 'Power Measurement' section, which includes 'TX Power' at 23.28 dBm. Another red box highlights the 'Power Control' section in the 'Meas Setup' area, showing 'Power Control' set to 'All 1'. The 'UE Power' is 22.6 dBm. The 'Fundamental' screen is selected on the right.

<LTE>

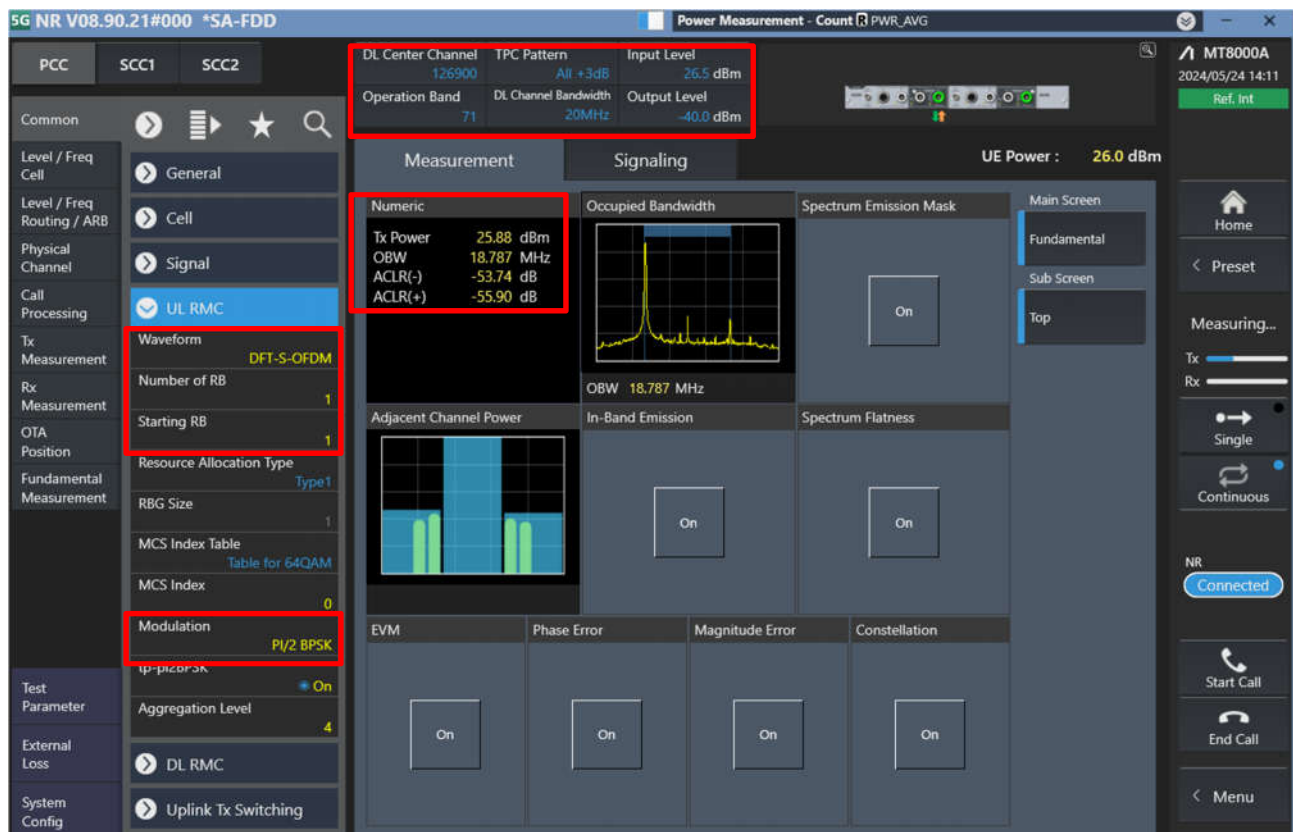


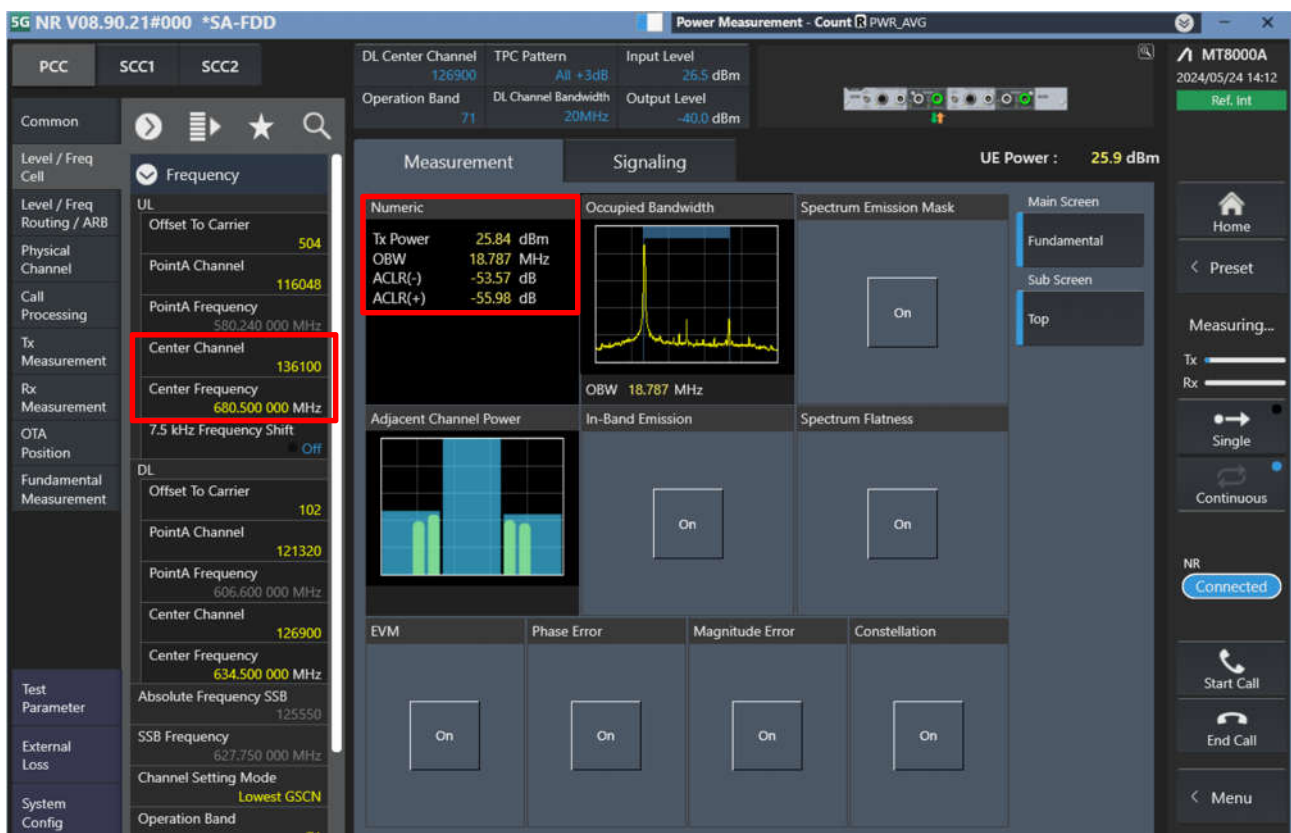
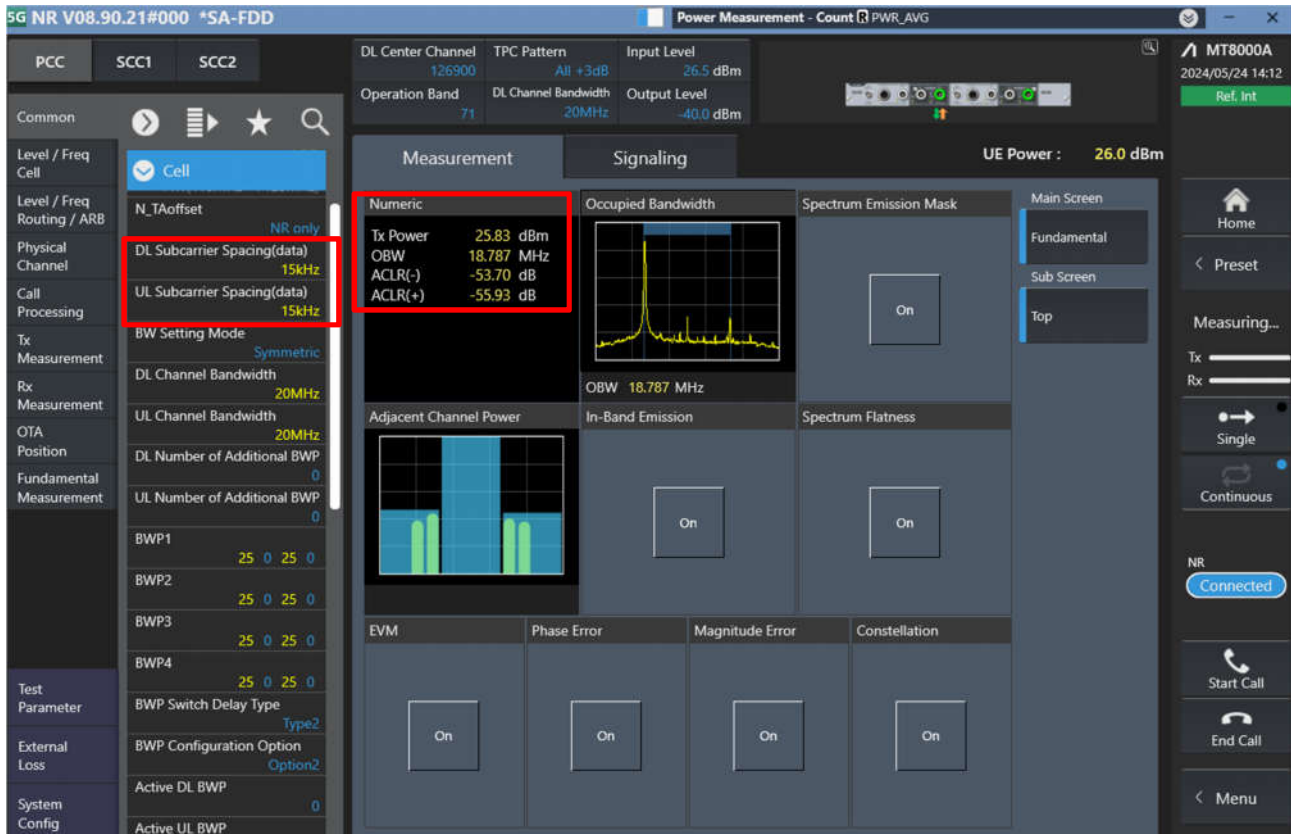
The screenshot shows the LTE measurement interface. The top bar displays 'Phone2 LTE 40.205#021' and 'Phone1 LTE 40.205#021'. The 'Measurement' tab is active, showing a list of metrics. A red box highlights the 'Power Measurement' section, which includes 'TX Power' at 23.01 dBm. Another red box highlights the 'Uplink Downlink Configuration' section in the 'Test Parameter' area, showing 'Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration 4'. The 'UE Power' is 23.4 dBm. The 'Fundamental' screen is selected on the right.

<LTE TDD Power class 3>



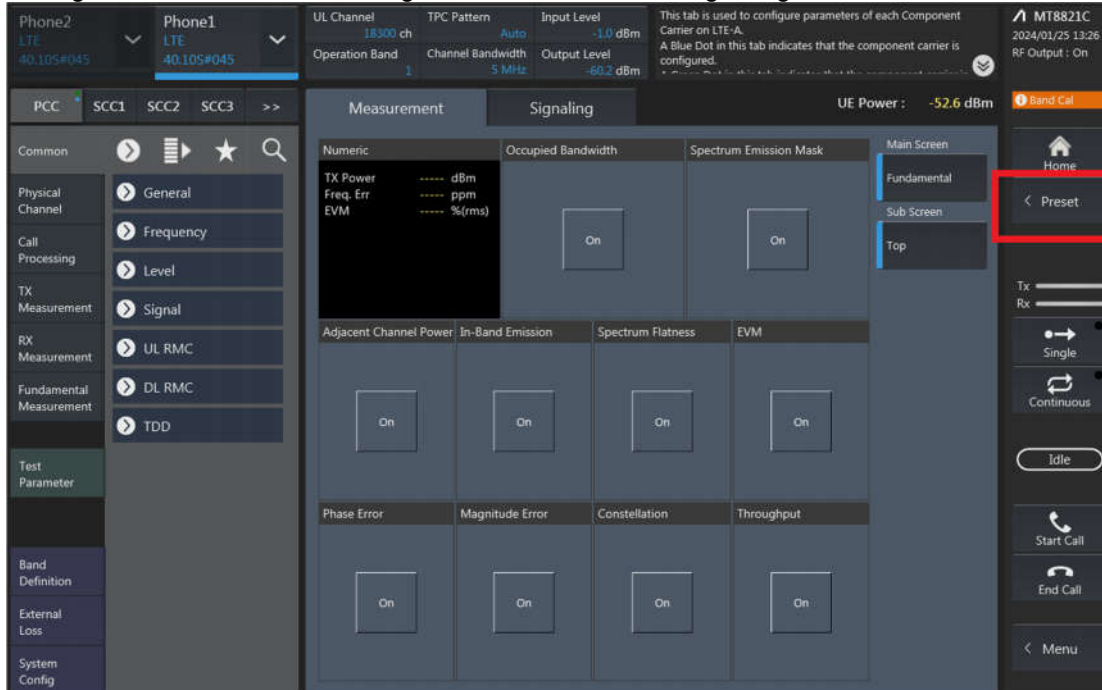
<5GNR FR1>





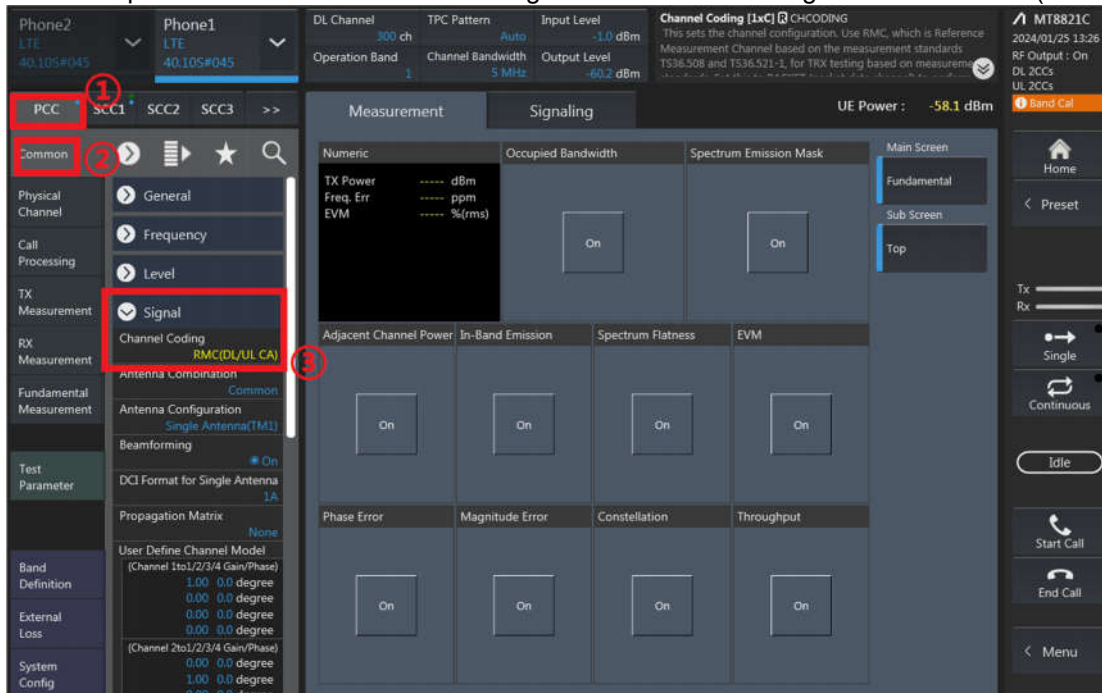
LTE Uplink and Downlink Carrier Aggregation configurations:

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

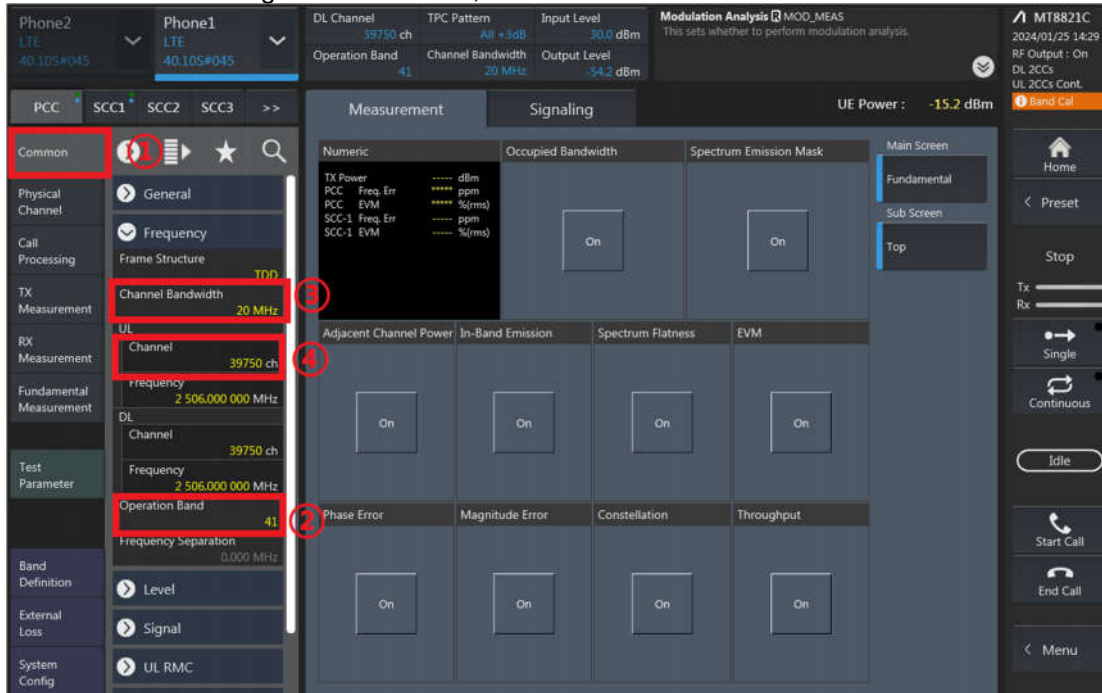


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

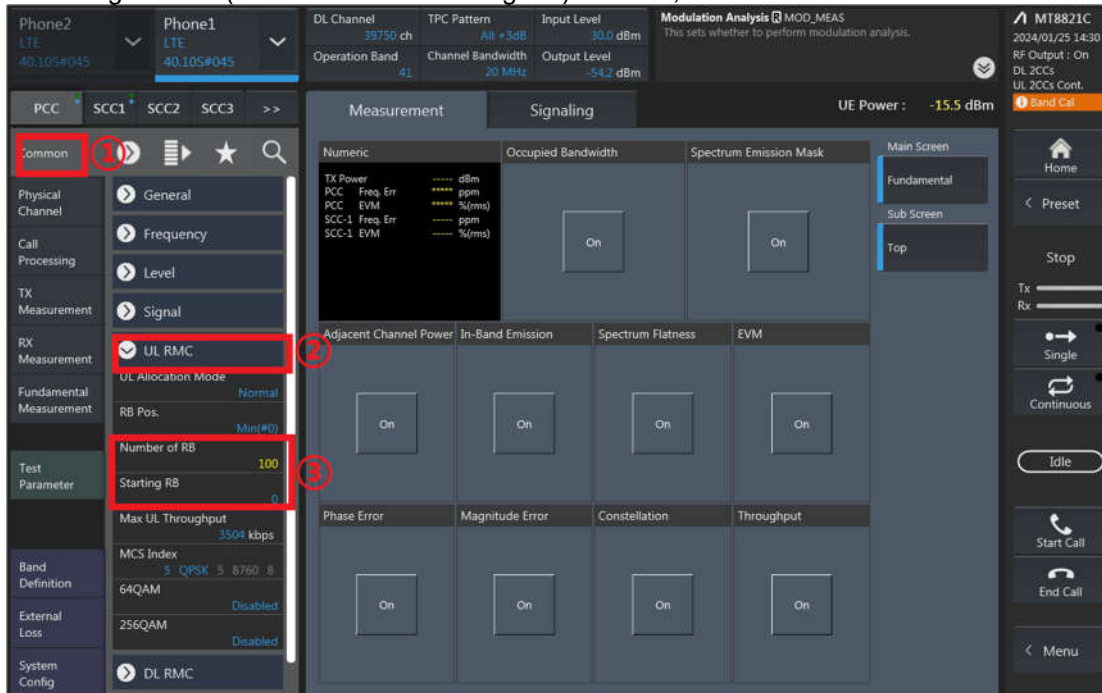
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



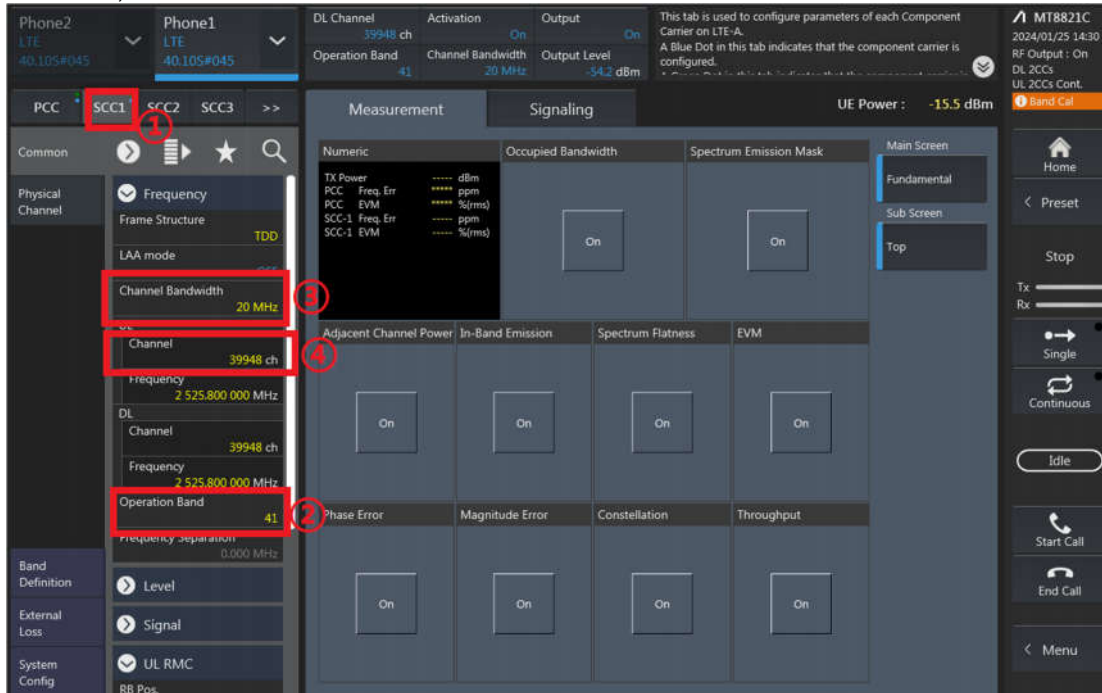
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



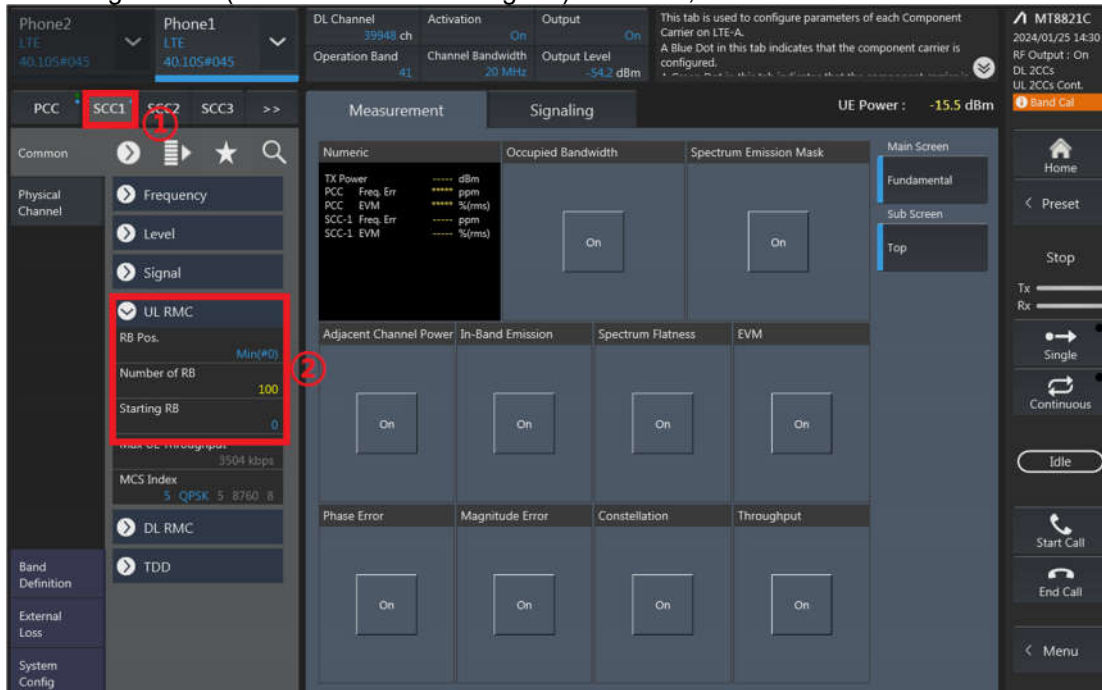
RB configurations (Number of RB / Starting RB) for PCC;



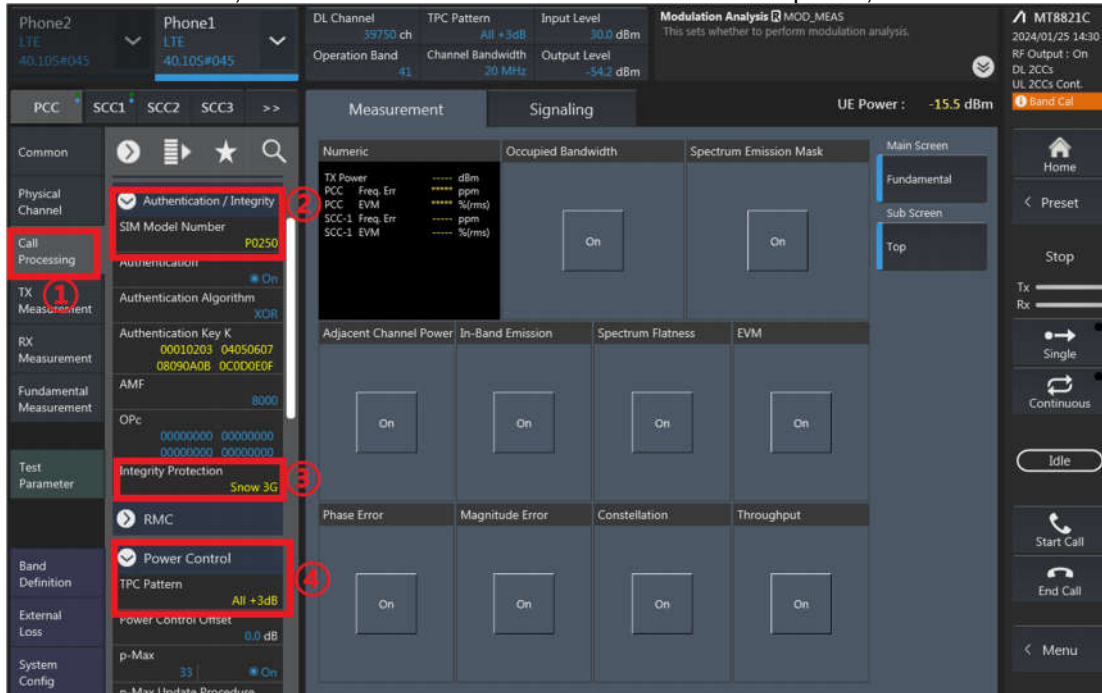
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



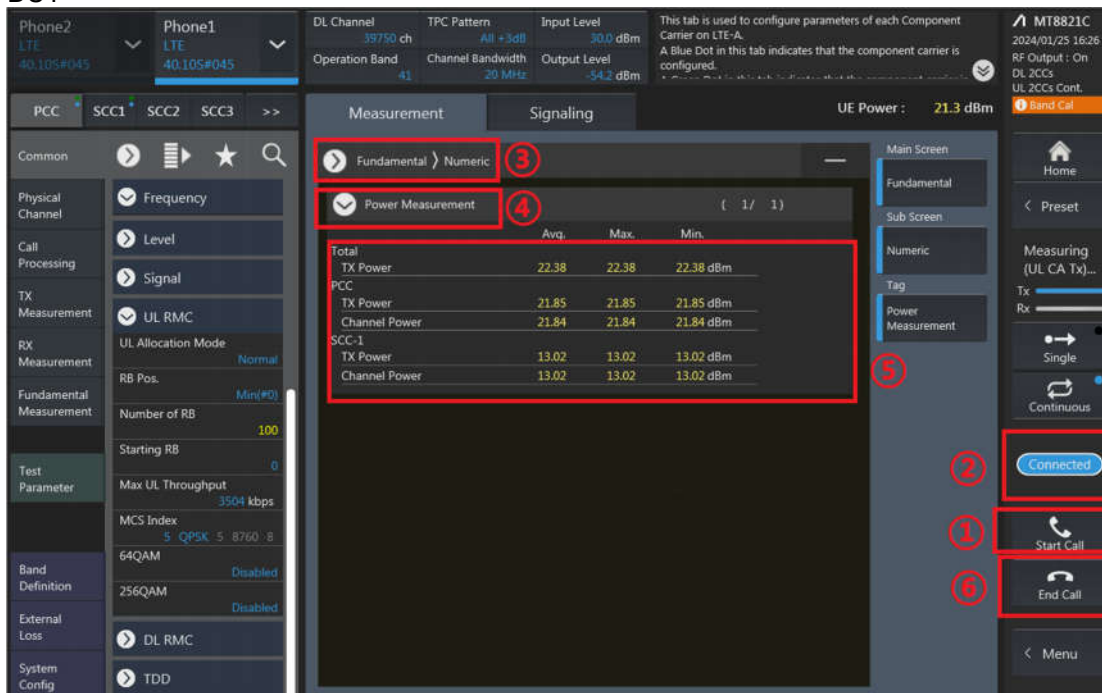
RB configurations (Number of RB / Starting RB) for SCC1;



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 inter-band DLCA test method is similar to intra-band DLCA.

2CA DL

CA List	PCC									SCC				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	DL Antenna Configuration	Tx. Power	Tx. Power	
														(dBm)	(dBm)	
CA_41A-42A	Band 41	1	20M	2593	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	22.88	22.95
	Band 42	5	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2593	40620	4X4 MIMO	22.76	22.89

3CA DL

3CA List	PCC									SCC1					SCC2				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq	Channel		RB	RB	Offset	Band	(MHz)	Freq	Channel		Band	(MHz)	Freq	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_41C-42A	Band 41	1	20M	2593	40620	QPSK	1	0	4x4 MIMO	Band 41	20M	2612.8	40818	4x4 MIMO	Band 42	20M	3500	42590	4x4 MIMO	22.88	22.95
	Band 42	5	20M	3500	42590	QPSK	1	0	4x4 MIMO	Band 41	20M	2593	40620	4x4 MIMO	Band 41	20M	2612.8	40818	4x4 MIMO	22.76	22.89
CA_41A-42C	Band 41	1	20M	2593	40620	QPSK	1	0	4x4 MIMO	Band 42	20M	3500	42590	4x4 MIMO	Band 42	20M	3519.8	42788	4x4 MIMO	22.88	22.95
	Band 42	5	20M	3500	42590	QPSK	1	0	4x4 MIMO	Band 42	20M	3519.8	42788	4x4 MIMO	Band 41	20M	2593	40620	4x4 MIMO	22.76	22.89