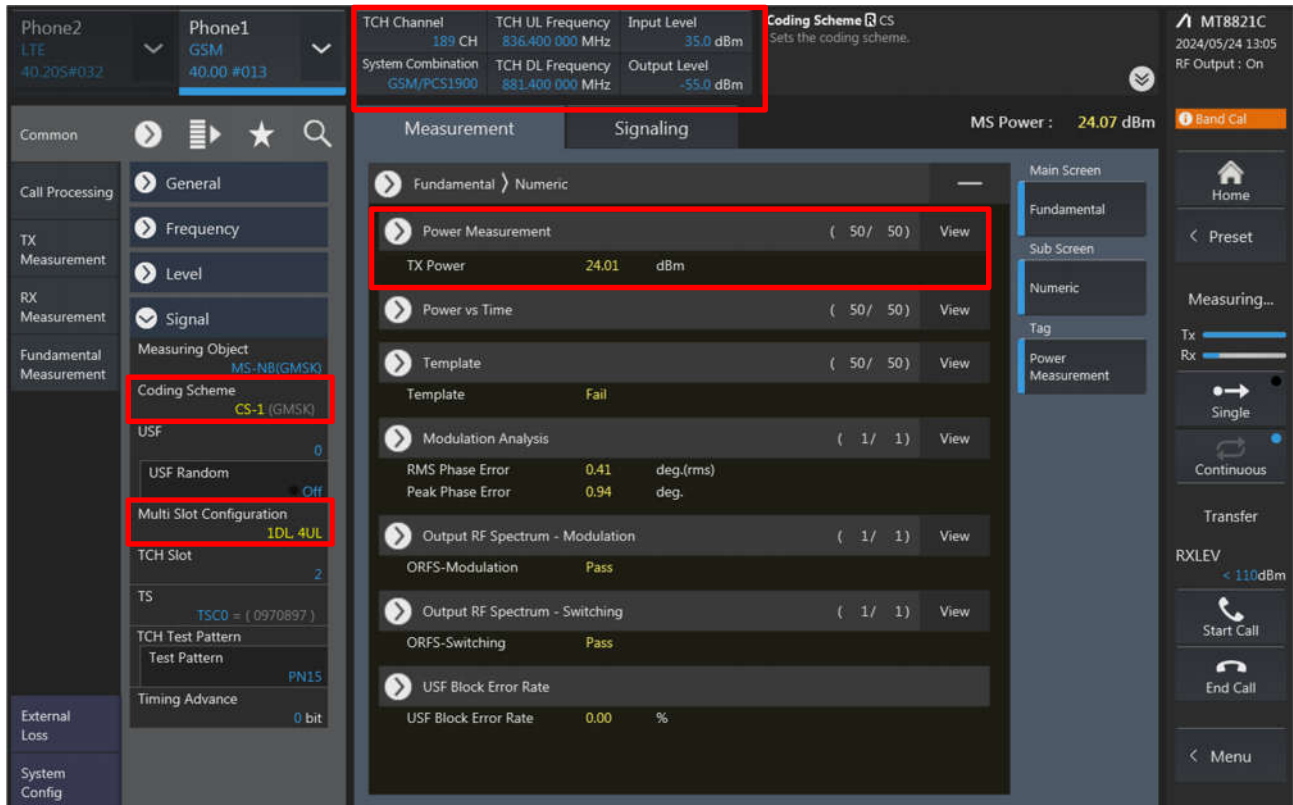


Power measurement connection diagram:

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.

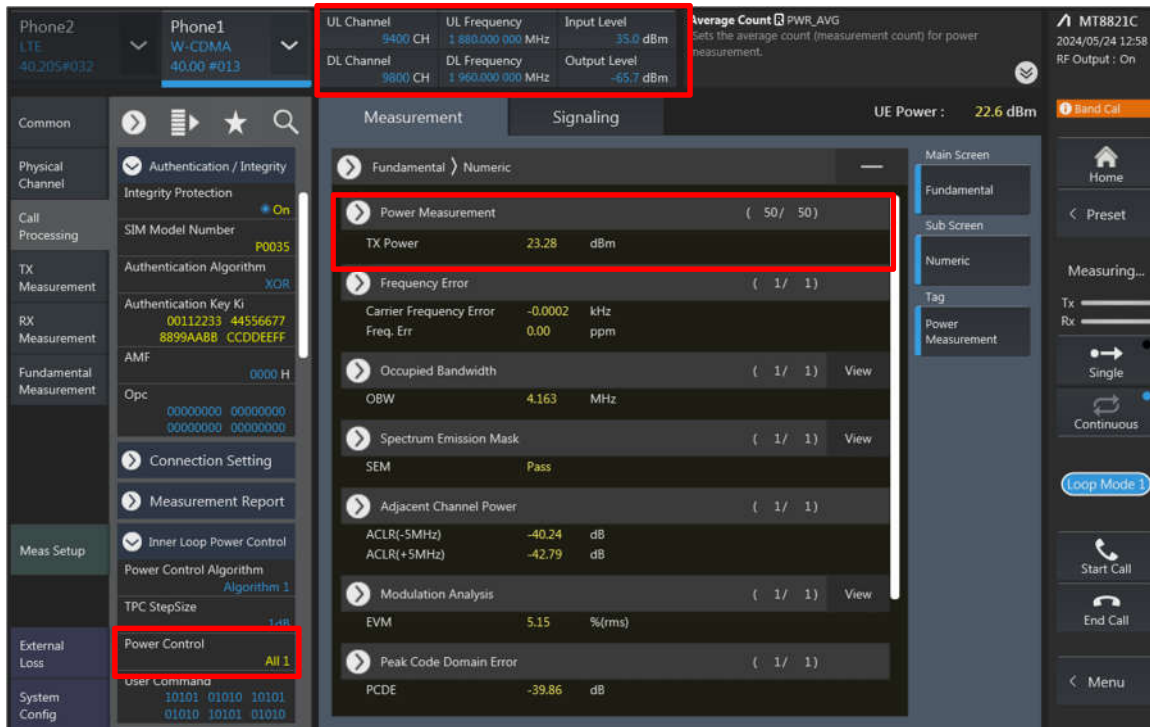
<GSM>



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

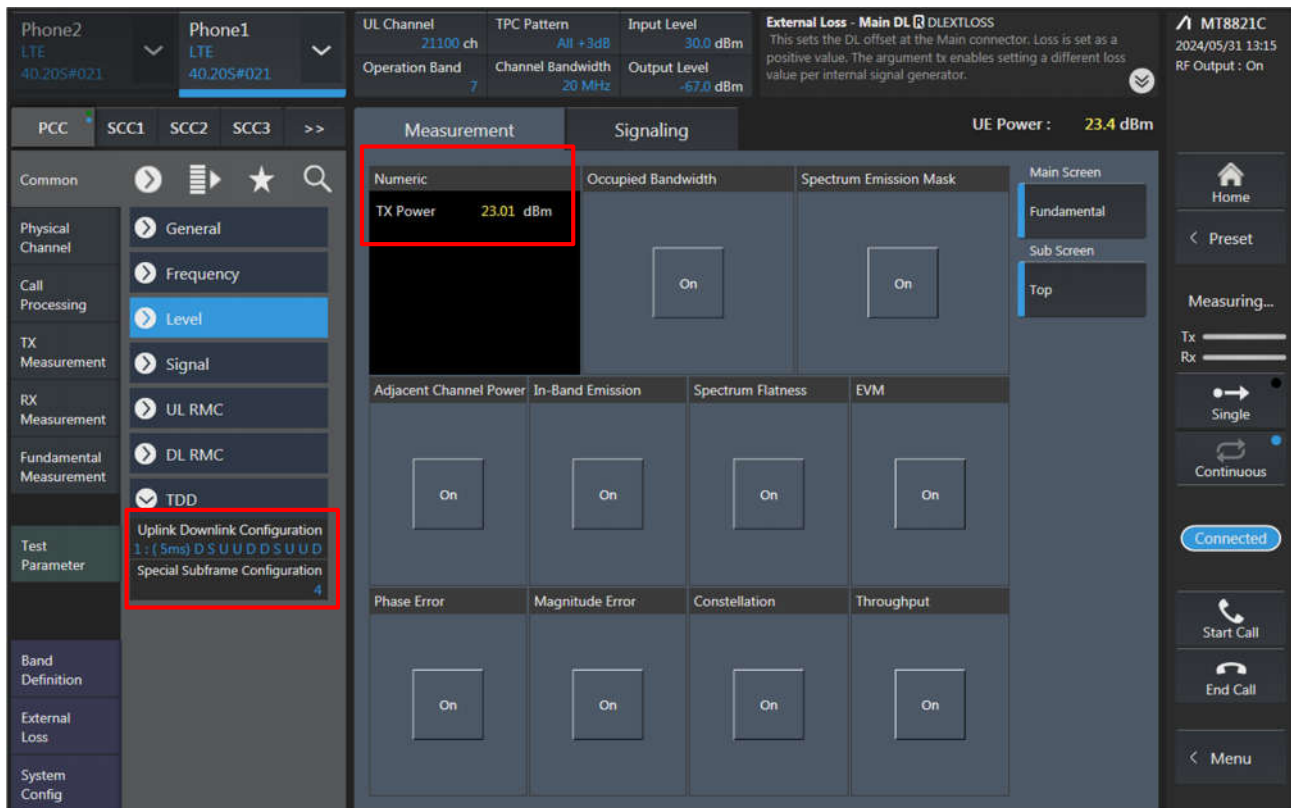
- Top Bar:** Shows Phone2 (LTE 40.205#032) and Phone1 (GSM 40.00 #013). The TCH Channel is 189 CH, TCH UL Frequency is 836.400 000 MHz, Input Level is 35.0 dBm, TCH DL Frequency is 881.400 000 MHz, and Output Level is -55.0 dBm. The Coding Scheme is CS.
- Left Sidebar:** Contains navigation options like 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 'Fundamental' and 'Numeric' views. The 'Power Measurement' section shows '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:** Shows 'Main Screen' and 'Sub Screen' options. The 'Main Screen' is selected, showing 'Fundamental' and 'Numeric' views. The 'Tag' section shows 'Power Measurement'.
- Bottom Bar:** Includes 'Transfer', 'RXLEV' (110dBm), 'Start Call', 'End Call', and 'Menu' buttons.

<WCDMA>



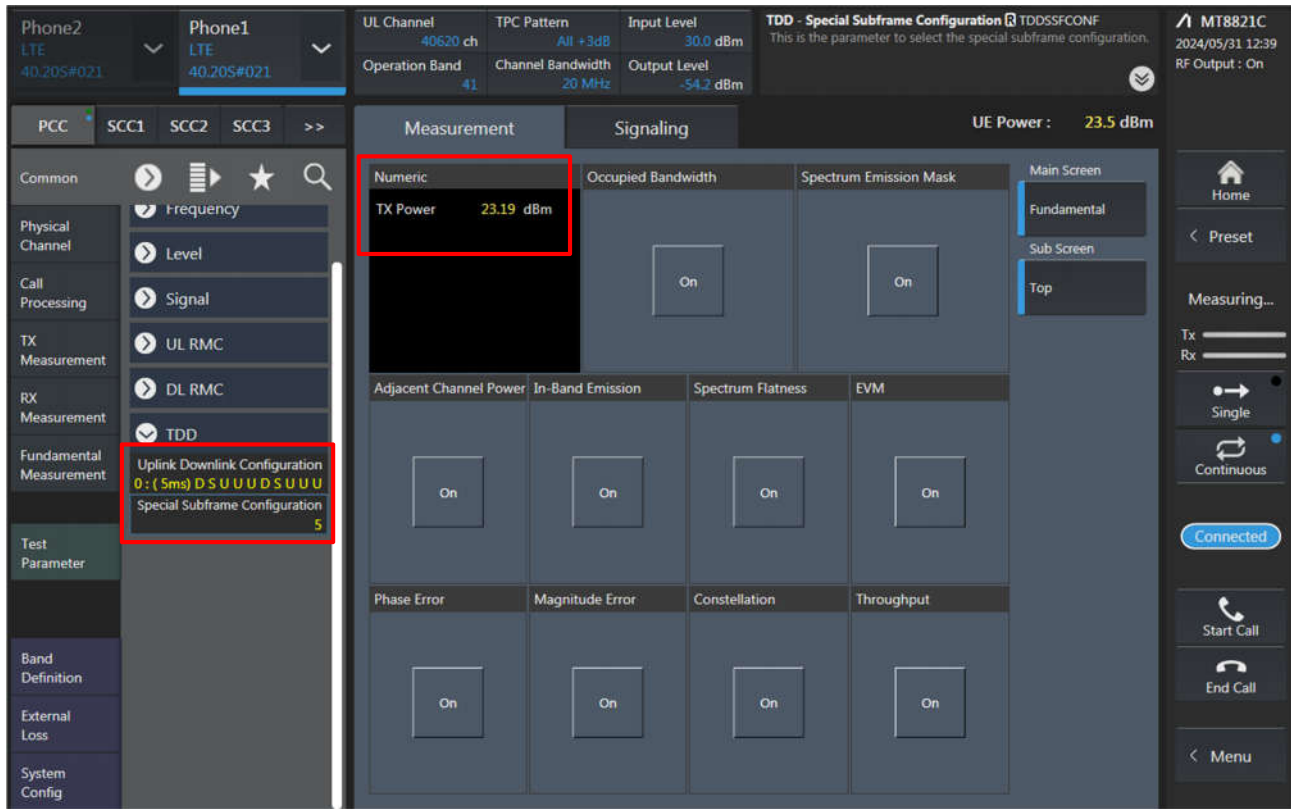
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.205#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing various parameters. A red box highlights the 'UL Channel' (9400 CH), 'UL Frequency' (1 880.000 000 MHz), 'Input Level' (35.0 dBm), 'DL Channel' (9800 CH), 'DL Frequency' (1 960.000 000 MHz), and 'Output Level' (-65.7 dBm). Another red box highlights the 'Power Measurement' section, showing 'TX Power' (23.28 dBm). The 'Fundamental' section shows 'Frequency Error' (-0.0002 kHz), 'Carrier Frequency Error' (0.00 ppm), 'Occupied Bandwidth' (4.163 MHz), 'Spectrum Emission Mask' (Pass), 'Adjacent Channel Power' (-40.24 dB, -42.79 dB), 'Modulation Analysis' (5.15 %/rms), and 'Peak Code Domain Error' (-39.86 dB). The 'UE Power' is 22.6 dBm. 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 'UE Power' is 23.4 dBm. 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 TDDSSFCOEF 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

Measurement Signaling UE Power : 23.5 dBm

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

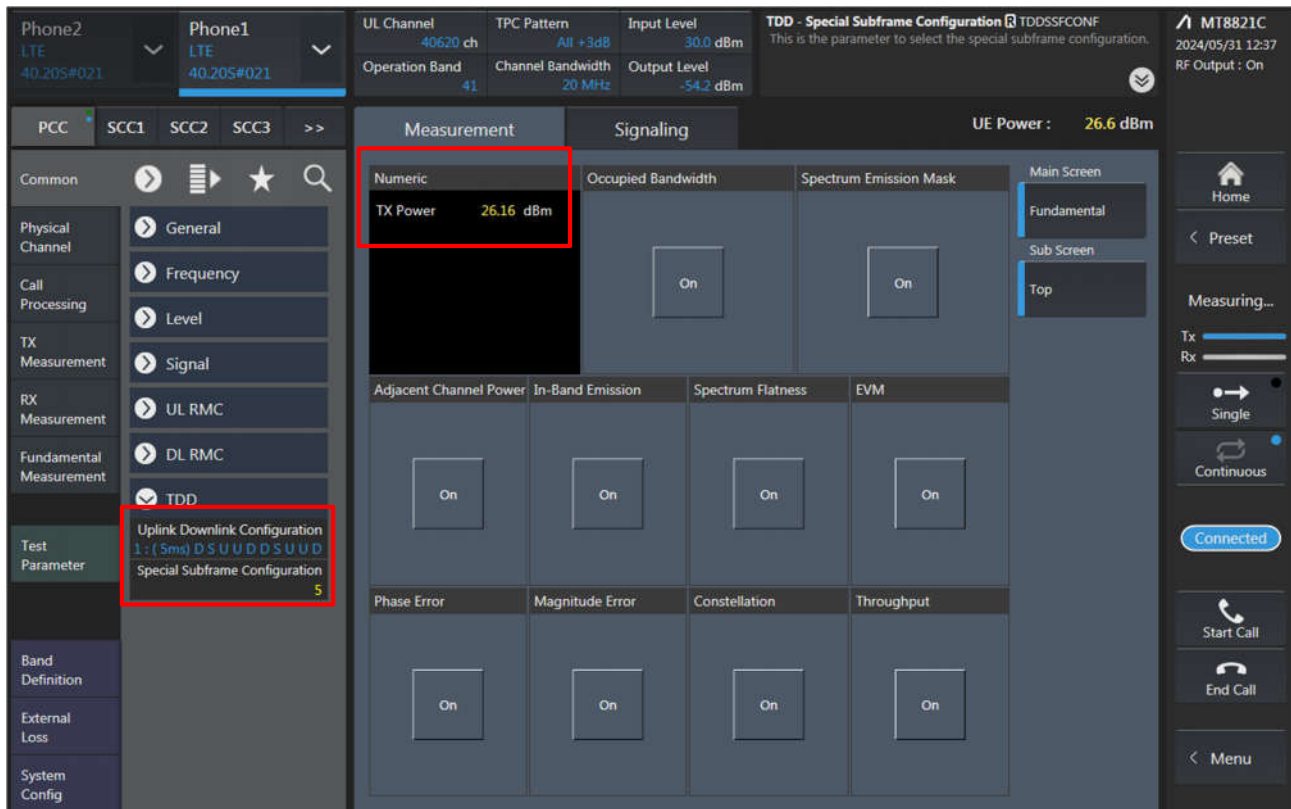
Common Frequency Level Signal UL RMC DL RMC TDD Uplink Downlink Configuration 0 : (5ms) D S U U U D S U U U Special Subframe Configuration 5

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 TDDSSFCOEF 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

Measurement Signaling UE Power : 26.6 dBm

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

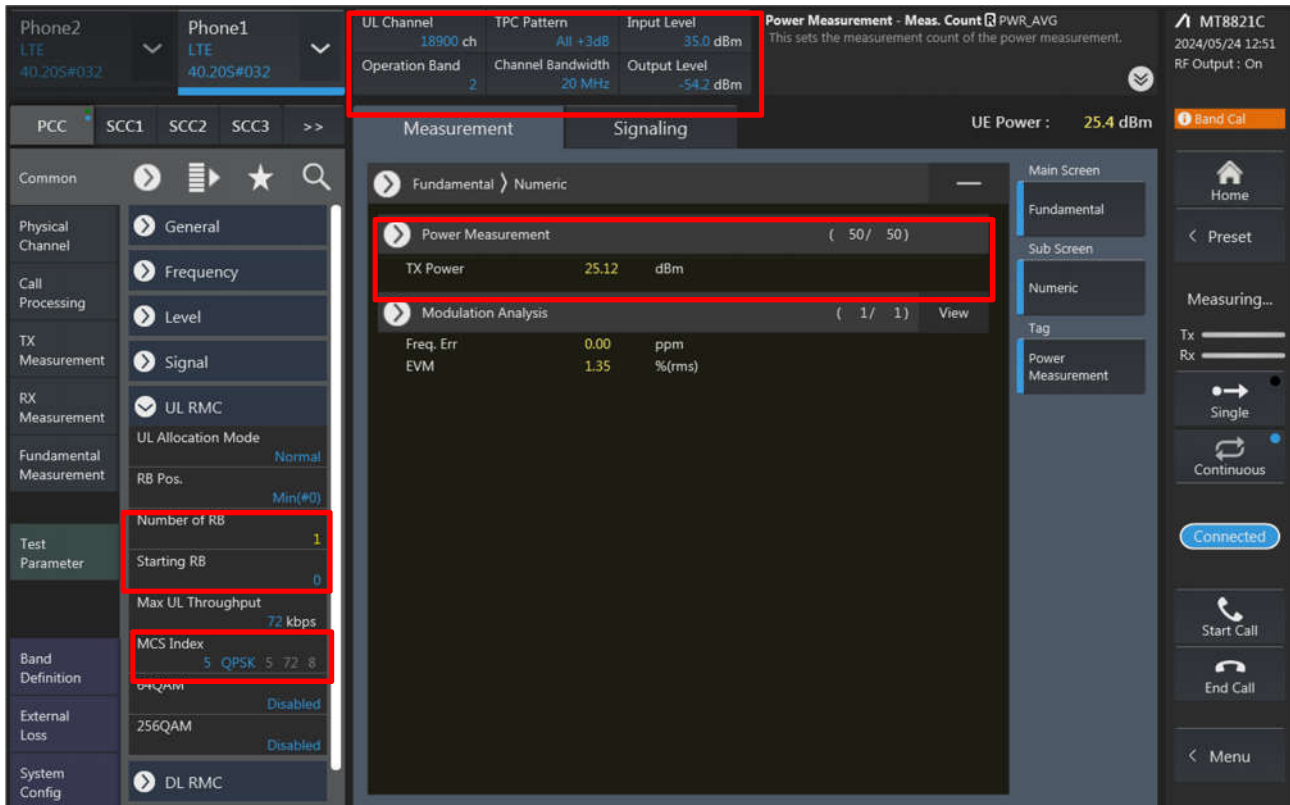
On On On On

Common General Frequency Level Signal UL RMC DL RMC TDD Uplink Downlink Configuration 1 : (5ms) D S U U 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

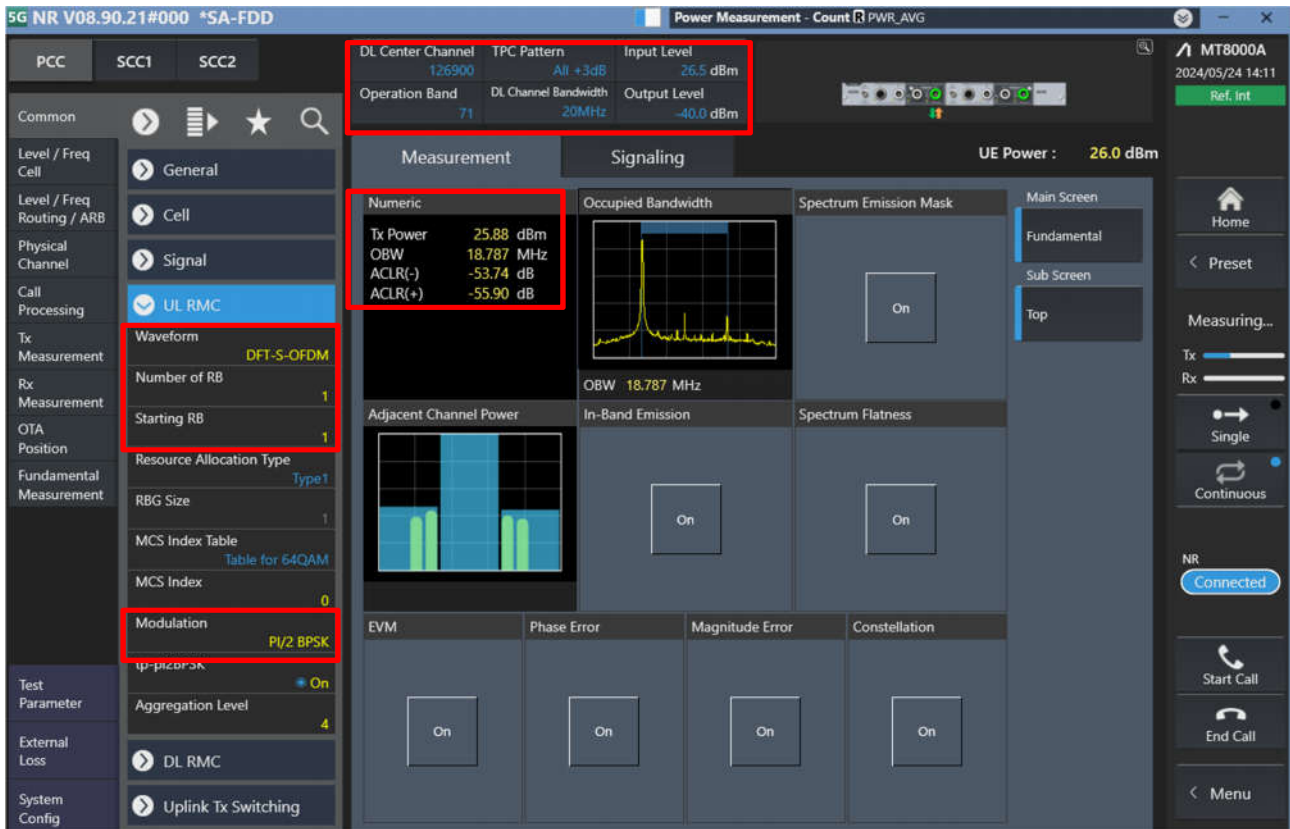
Main Screen Fundamental Sub Screen Top

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

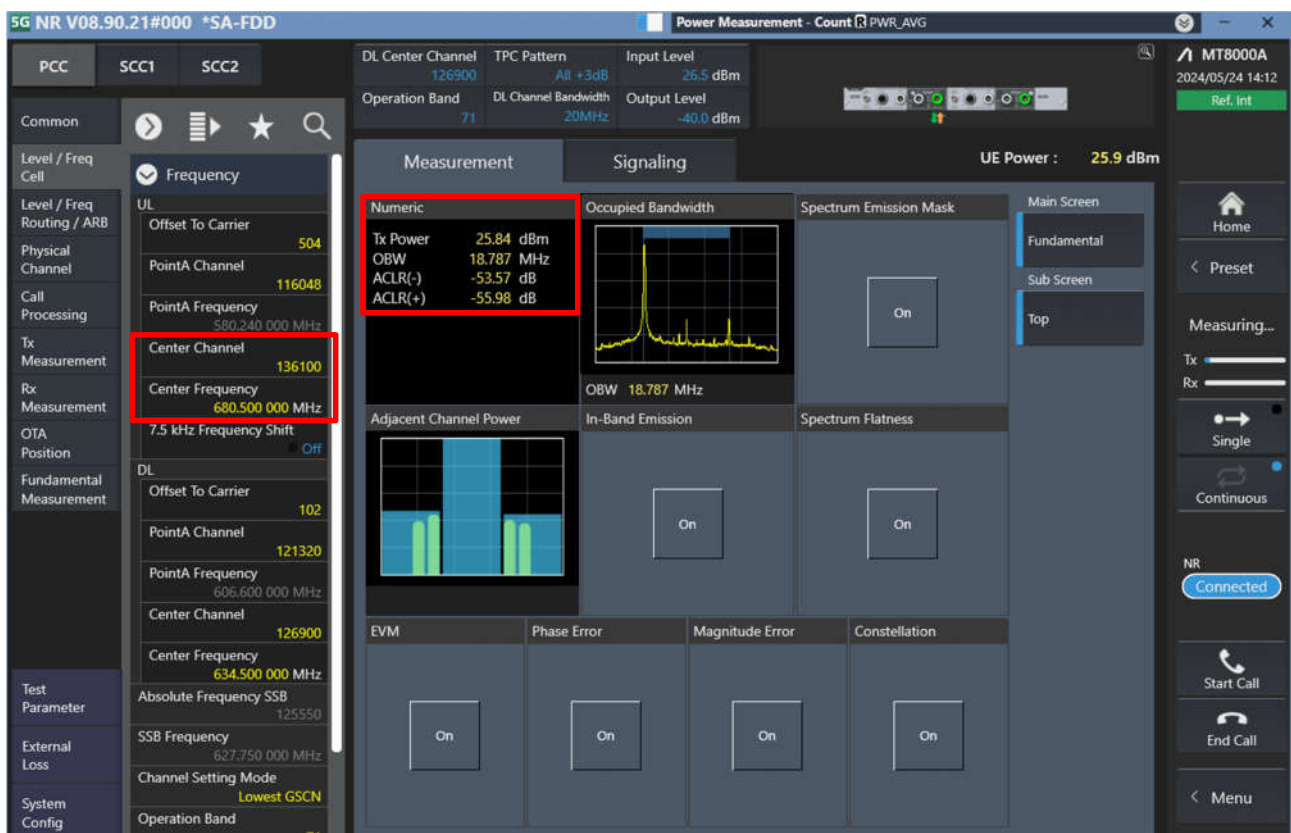
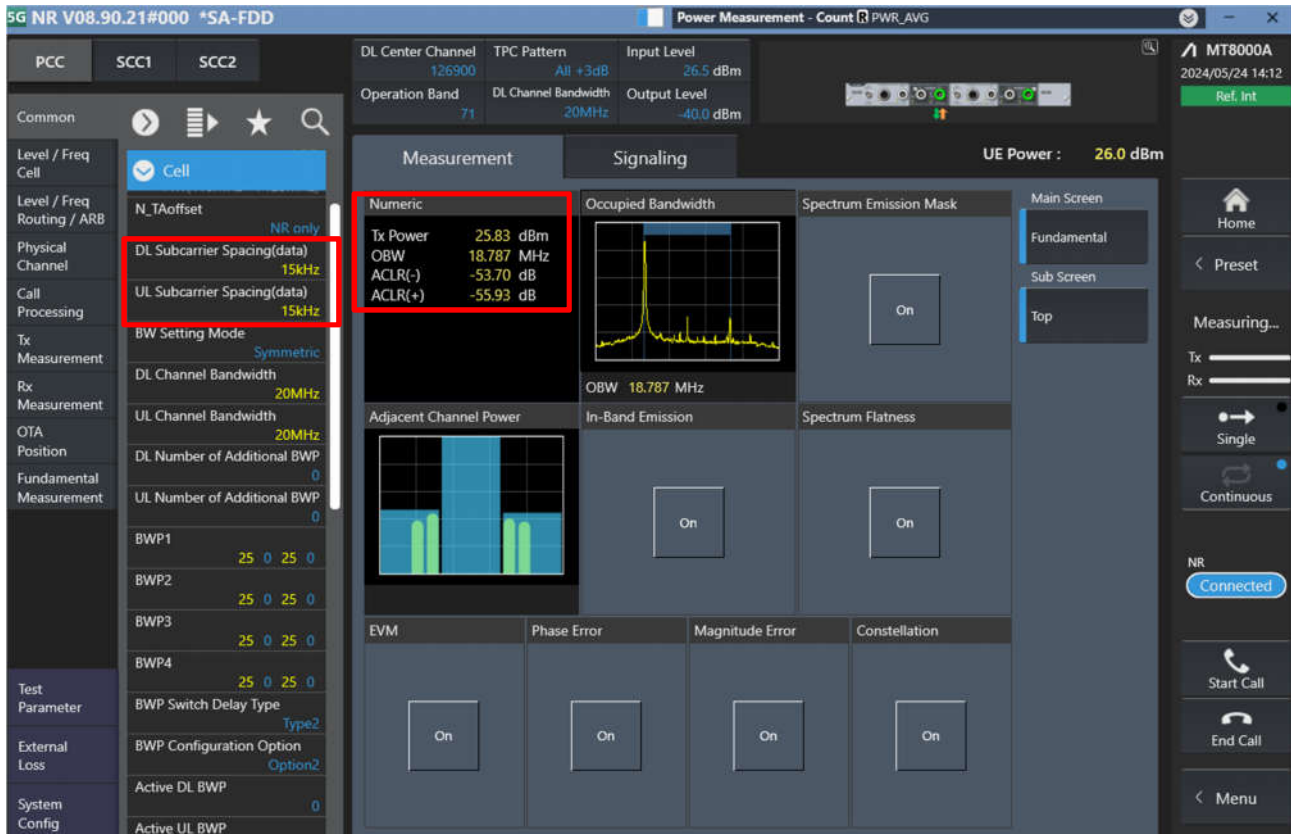


The screenshot displays the SPORTON LAB. software interface for LTE testing. The top section shows two phone configurations: Phone2 (LTE, 40.20S#032) and Phone1 (LTE, 40.20S#032). The main configuration area is divided into sections: Common, Physical Channel, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, Test Parameter, Band Definition, External Loss, and System Config. The Test Parameter section is expanded, showing settings for UL RMC, UL Allocation Mode (Normal), RB Pos. (Min(#0)), Number of RB (1), Starting RB (0), Max UL Throughput (72 kbps), MCS Index (5 QPSK 5 72 8), and DL RMC. The Measurement section is also expanded, showing Power Measurement (TX Power: 25.12 dBm) and Modulation Analysis (Freq. Err: 0.00 ppm, EVM: 1.35 %rms). The Signaling section shows UE Power: 25.4 dBm. The right sidebar contains navigation buttons: Home, Preset, Measuring..., Tx/Rx, Single, Continuous, Connected, Start Call, End Call, and Menu.

<5G NR FR1>

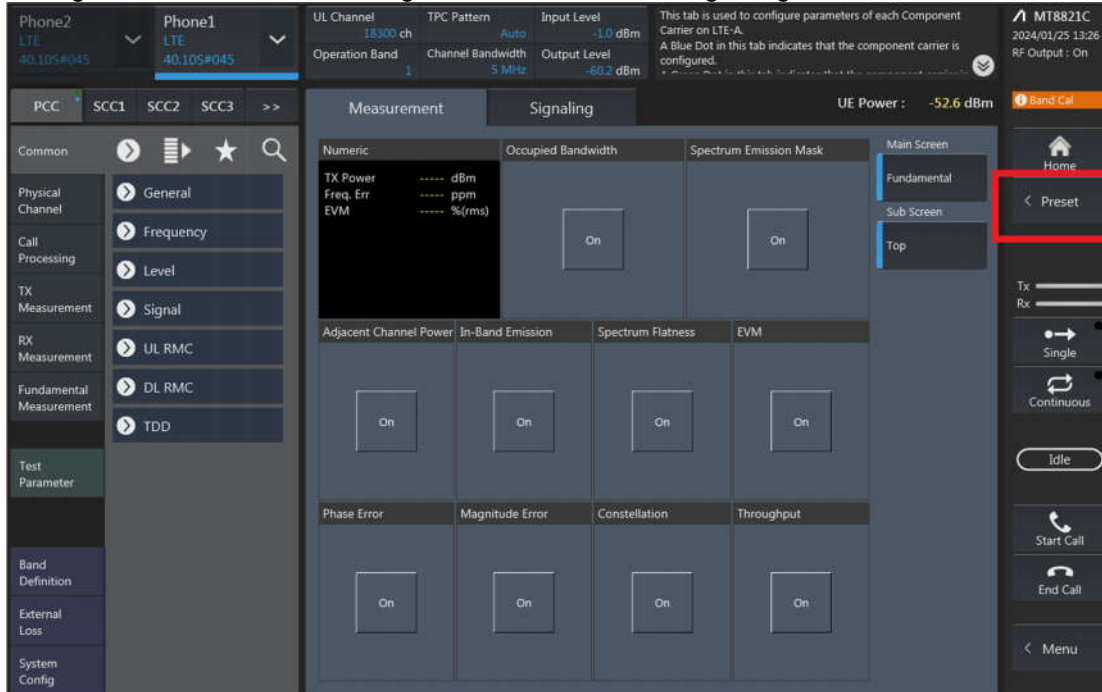


The screenshot displays the SPORTON LAB. software interface for 5G NR FR1 testing. The top section shows the configuration: 5G NR V08.90.21#000 *SA-FDD. The main configuration area is divided into sections: Common, Level / Freq Cell, Level / Freq Routing / ARB, Physical Channel, Call Processing, Tx Measurement, Rx Measurement, OTA Position, Fundamental Measurement, Test Parameter, External Loss, and System Config. The Test Parameter section is expanded, showing settings for UL RMC, 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), and Uplink Tx Switching. The Measurement section is also expanded, showing Power Measurement (Tx Power: 25.88 dBm, OBW: 18.787 MHz, ACLR(-): -53.74 dB, ACLR(+): -55.90 dB) and Occupied Bandwidth (OBW: 18.787 MHz). The Signaling section shows UE Power: 26.0 dBm. The right sidebar contains navigation buttons: Home, Preset, Measuring..., Tx/Rx, Single, Continuous, Connected, Start Call, End Call, and Menu.



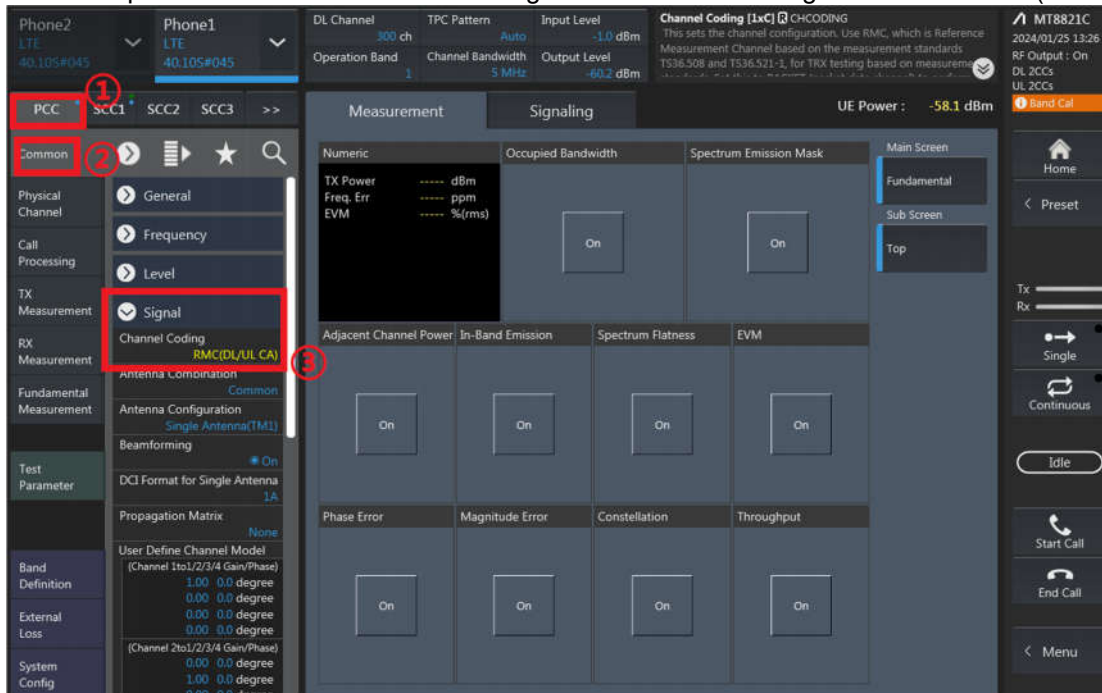
LTE Uplink and Downlink Carrier Aggregation configurations:

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

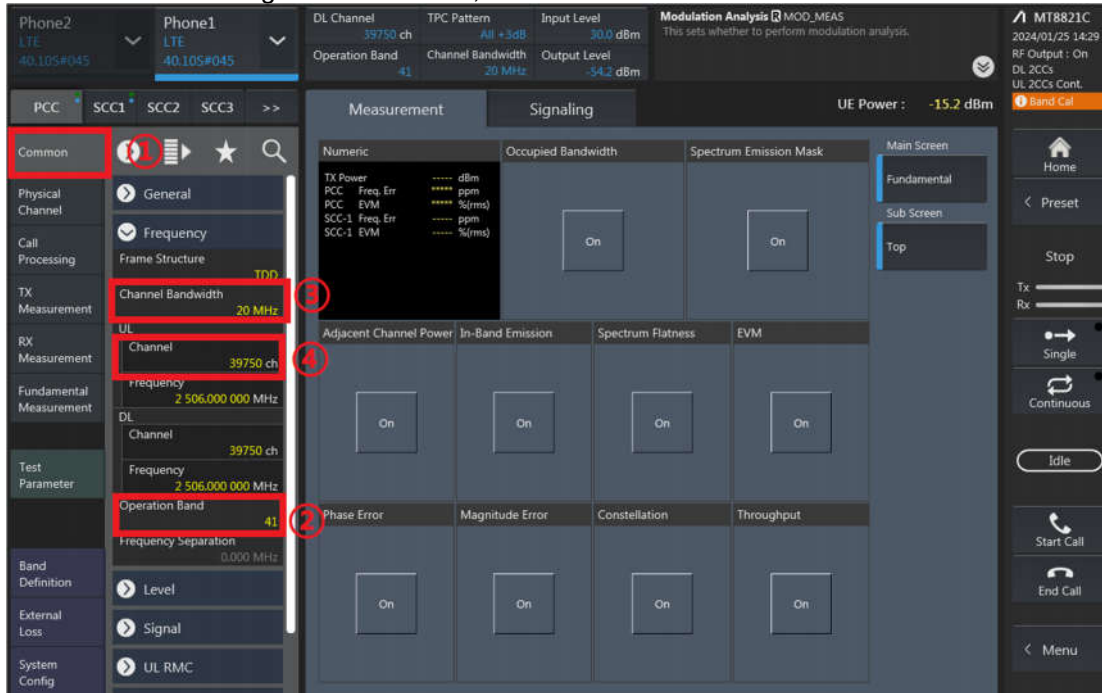


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

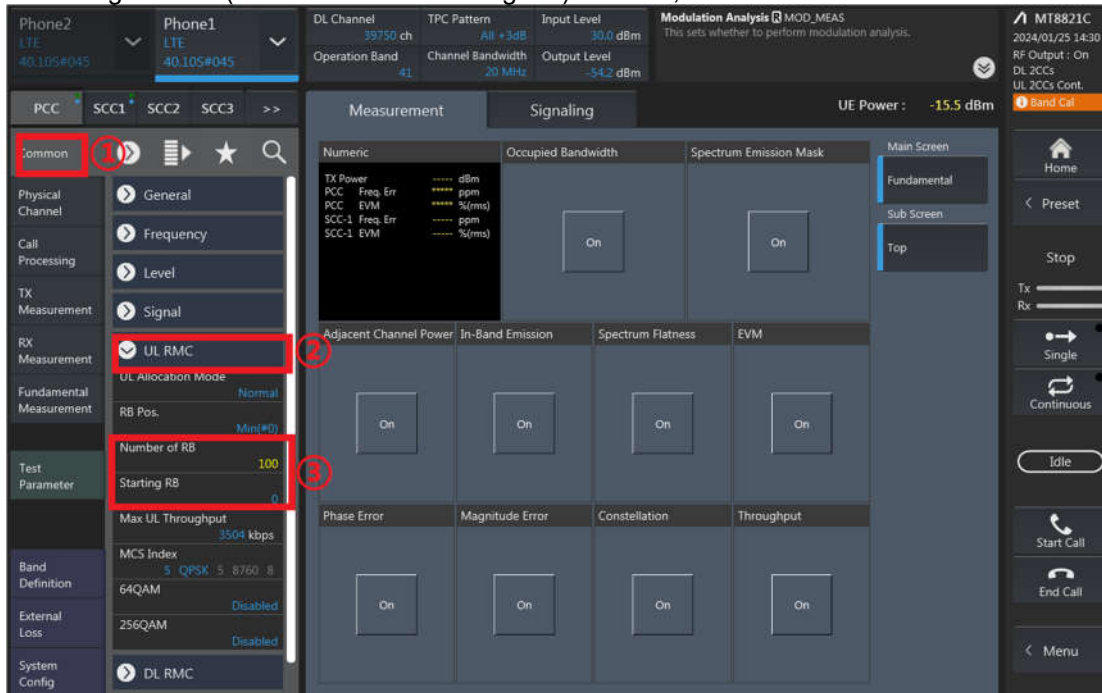
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



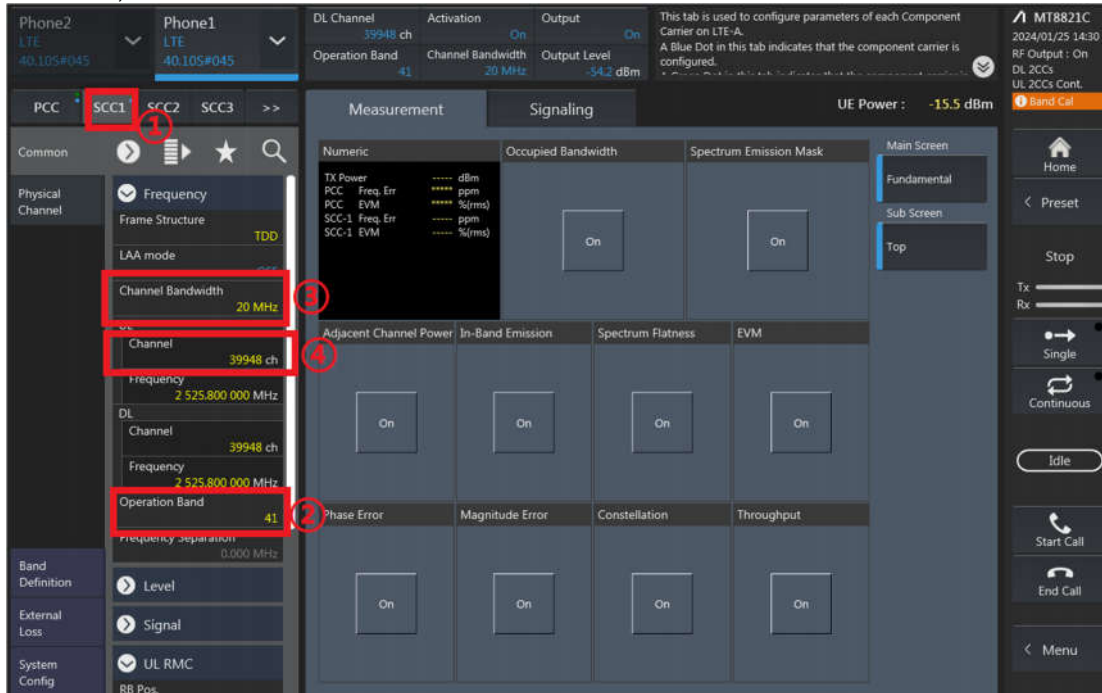
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



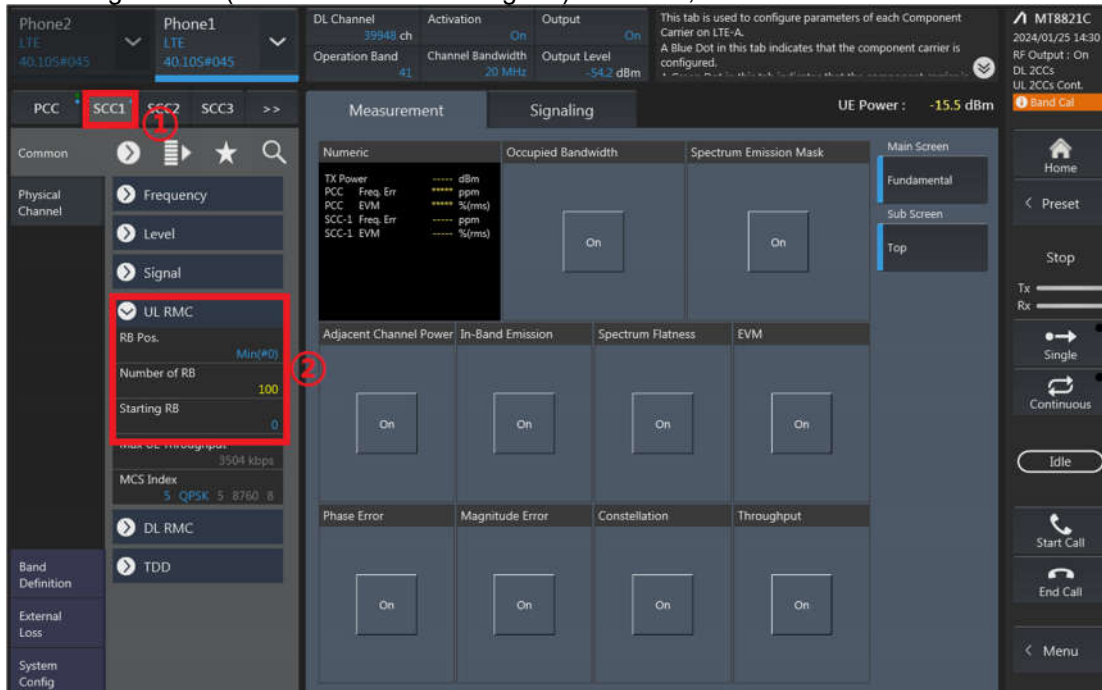
RB configurations (Number of RB / Starting RB) for PCC;



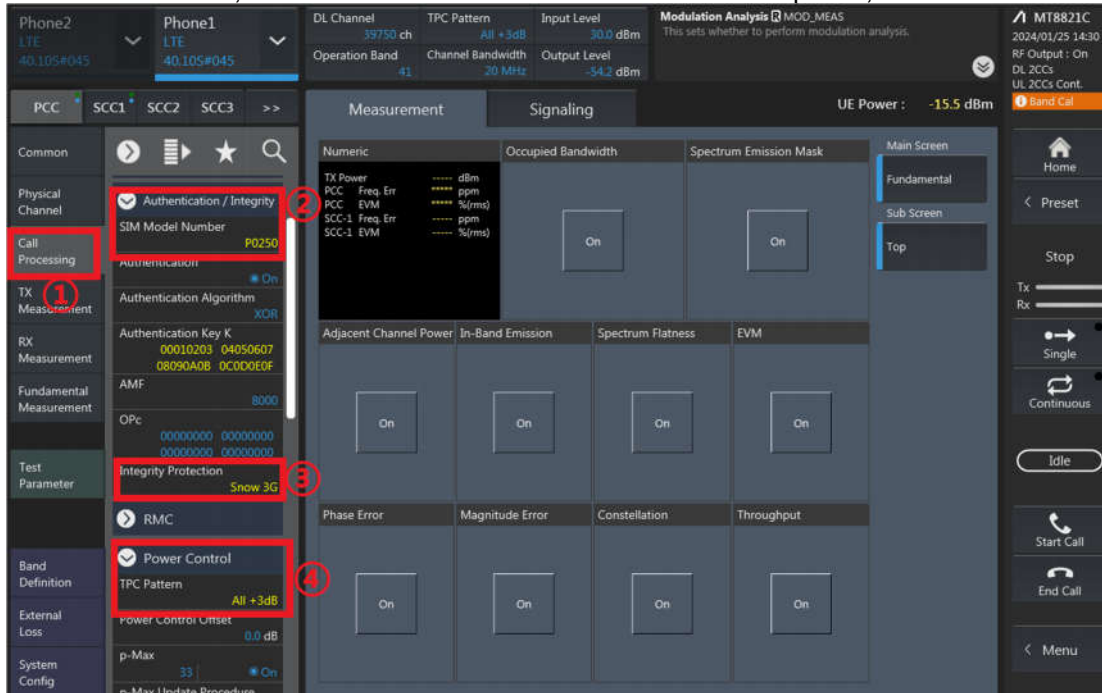
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



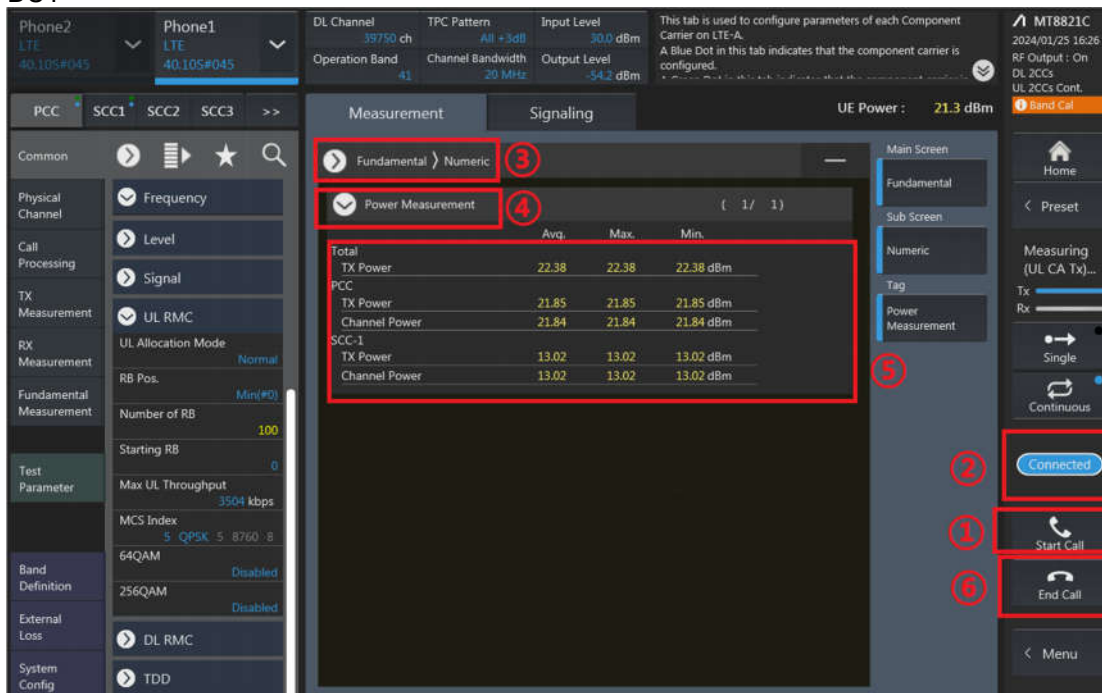
RB configurations (Number of RB / Starting RB) for SCC1;



5. Select the PCC tab, then set “SIM Model Number” and select max power;



6. Click the “Connect” button at the Right of the screen, if necessary, turn the Airplane mode on/off in the DUT



7. The inter-band ULCA test method is similar to intra-band ULCA, and DLCA test method is similar to intra-band ULCA too.

UL CA_Full Power

CA_5B Ant 0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.39	24.00
20476	20575	QPSK	1	49	1	0	22.45	24.00
20600	20501	QPSK	1	0	1	49	22.41	24.00

CA_5B Ant 1								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.36	24.00
20476	20575	QPSK	1	49	1	0	22.41	24.00
20600	20501	QPSK	1	0	1	49	22.38	24.00

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.84	24.00
40185	40383	QPSK	1	99	1	0	22.77	24.00
40620	40818	QPSK	1	99	1	0	22.61	24.00
41055	41253	QPSK	1	99	1	0	22.87	24.00
41490	41292	QPSK	1	0	1	99	22.76	24.00

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.01	24.00
40185	40383	QPSK	1	99	1	0	23.25	24.00
40620	40818	QPSK	1	99	1	0	23.11	24.00
41055	41253	QPSK	1	99	1	0	22.99	24.00
41490	41292	QPSK	1	0	1	99	23	24.00

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.19	24.00
40185	40383	QPSK	1	99	1	0	23.03	24.00
40620	40818	QPSK	1	99	1	0	22.95	24.00
41055	41253	QPSK	1	99	1	0	22.92	24.00
41490	41292	QPSK	1	0	1	99	23.09	24.00

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.13	24.00
40185	40383	QPSK	1	99	1	0	23.13	24.00
40620	40818	QPSK	1	99	1	0	23.36	24.00
41055	41253	QPSK	1	99	1	0	23.39	24.00
41490	41292	QPSK	1	0	1	99	23.18	24.00

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.50	27.00
40185	40383	QPSK	1	99	1	0	25.51	27.00
40620	40818	QPSK	1	99	1	0	25.64	27.00
41055	41253	QPSK	1	99	1	0	25.44	27.00
41490	41292	QPSK	1	0	1	99	25.6	27.00

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.24	26.00
40185	40383	QPSK	1	99	1	0	25.09	26.00
40620	40818	QPSK	1	99	1	0	25.32	26.00
41055	41253	QPSK	1	99	1	0	25.06	26.00
41490	41292	QPSK	1	0	1	99	25.28	26.00

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.59	26.00
40185	40383	QPSK	1	99	1	0	24.63	26.00
40620	40818	QPSK	1	99	1	0	24.61	26.00
41055	41253	QPSK	1	99	1	0	24.64	26.00
41490	41292	QPSK	1	0	1	99	24.54	26.00

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.04	25.00
40185	40383	QPSK	1	99	1	0	24.07	25.00
40620	40818	QPSK	1	99	1	0	24.27	25.00
41055	41253	QPSK	1	99	1	0	24.20	25.00
41490	41292	QPSK	1	0	1	99	24.15	25.00

CA_48C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	23.11	24.00
55830	56028	QPSK	1	99	1	0	23.13	24.00
56150	56348	QPSK	1	99	1	0	23.37	24.00
56640	56442	QPSK	1	0	1	99	23.34	24.00

CA_48C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	20.72	22.00
55830	56028	QPSK	1	99	1	0	20.65	22.00
56150	56348	QPSK	1	99	1	0	20.77	22.00
56640	56442	QPSK	1	0	1	99	20.63	22.00

CA_48C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	23.79	24.00
55830	56028	QPSK	1	99	1	0	23.64	24.00
56150	56348	QPSK	1	99	1	0	23.82	24.00
56640	56442	QPSK	1	0	1	99	23.66	24.00

CA_48C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	21.35	23.00
55830	56028	QPSK	1	99	1	0	21.56	23.00
56150	56348	QPSK	1	99	1	0	21.58	23.00
56640	56442	QPSK	1	0	1	99	21.47	23.00

CA_48B Ant 4								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	23.01	24.00
55820	55913	QPSK	1	74	1	0	22.98	24.00
56160	56253	QPSK	1	74	1	0	23.26	24.00
56665	56572	QPSK	1	0	1	24	23.17	24.00

CA_48B Ant 7								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	20.46	22.00
55820	55913	QPSK	1	74	1	0	20.56	22.00
56160	56253	QPSK	1	74	1	0	20.46	22.00
56665	56572	QPSK	1	0	1	24	20.33	22.00

CA_48B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	23.44	24.00
55820	55913	QPSK	1	74	1	0	23.57	24.00
56160	56253	QPSK	1	74	1	0	23.68	24.00
56665	56572	QPSK	1	0	1	24	23.38	24.00

CA_48B Ant 6								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	21.32	23.00
55820	55913	QPSK	1	74	1	0	21.40	23.00
56160	56253	QPSK	1	74	1	0	21.59	23.00
56665	56572	QPSK	1	0	1	24	21.45	23.00

UL CA_EC12

CA_5B Ant 0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.39	24.00
20476	20575	QPSK	1	49	1	0	22.45	24.00
20600	20501	QPSK	1	0	1	49	22.41	24.00

CA_5B Ant 1								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.36	23.70
20476	20575	QPSK	1	49	1	0	22.41	23.70
20600	20501	QPSK	1	0	1	49	22.38	23.70

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.84	24.00
40185	40383	QPSK	1	99	1	0	22.77	24.00
40620	40818	QPSK	1	99	1	0	22.61	24.00
41055	41253	QPSK	1	99	1	0	22.67	24.00
41490	41292	QPSK	1	0	1	99	22.76	24.00

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.73	20.50
40185	40383	QPSK	1	99	1	0	19.79	20.50
40620	40818	QPSK	1	99	1	0	19.80	20.50
41055	41253	QPSK	1	99	1	0	19.87	20.50
41490	41292	QPSK	1	0	1	99	19.78	20.50

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.19	24.00
40185	40383	QPSK	1	99	1	0	23.03	24.00
40620	40818	QPSK	1	99	1	0	22.95	24.00
41055	41253	QPSK	1	99	1	0	22.92	24.00
41490	41292	QPSK	1	0	1	99	23.09	24.00

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.13	24.00
40185	40383	QPSK	1	99	1	0	23.13	24.00
40620	40818	QPSK	1	99	1	0	23.36	24.00
41055	41253	QPSK	1	99	1	0	23.39	24.00
41490	41292	QPSK	1	0	1	99	23.18	24.00

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.50	27.00
40185	40383	QPSK	1	99	1	0	25.51	27.00
40620	40818	QPSK	1	99	1	0	25.64	27.00
41055	41253	QPSK	1	99	1	0	25.44	27.00
41490	41292	QPSK	1	0	1	99	25.6	27.00

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.65	22.10
40185	40383	QPSK	1	99	1	0	21.77	22.10
40620	40818	QPSK	1	99	1	0	21.78	22.10
41055	41253	QPSK	1	99	1	0	21.57	22.10
41490	41292	QPSK	1	0	1	99	21.63	22.10

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.59	26.00
40185	40383	QPSK	1	99	1	0	24.63	26.00
40620	40818	QPSK	1	99	1	0	24.61	26.00
41055	41253	QPSK	1	99	1	0	24.64	26.00
41490	41292	QPSK	1	0	1	99	24.54	26.00

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.04	25.00
40185	40383	QPSK	1	99	1	0	24.07	25.00
40620	40818	QPSK	1	99	1	0	24.27	25.00
41055	41253	QPSK	1	99	1	0	24.20	25.00
41490	41292	QPSK	1	0	1	99	24.15	25.00

CA_48C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	18.53	19.80
55830	56028	QPSK	1	99	1	0	18.43	19.80
56150	56348	QPSK	1	99	1	0	18.54	19.80
56640	56442	QPSK	1	0	1	99	18.44	19.80

CA_48C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	15.40	16.60
55830	56028	QPSK	1	99	1	0	15.63	16.60
56150	56348	QPSK	1	99	1	0	15.56	16.60
56640	56442	QPSK	1	0	1	99	15.55	16.60

CA_48C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	23.79	24.00
55830	56028	QPSK	1	99	1	0	23.64	24.00
56150	56348	QPSK	1	99	1	0	23.82	24.00
56640	56442	QPSK	1	0	1	99	23.66	24.00

CA_48C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	20.81	21.50
55830	56028	QPSK	1	99	1	0	20.95	21.50
56150	56348	QPSK	1	99	1	0	20.85	21.50
56640	56442	QPSK	1	0	1	99	20.82	21.50

CA_48B Ant 4								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	18.32	19.80
55820	55913	QPSK	1	74	1	0	18.40	19.80
56160	56253	QPSK	1	74	1	0	18.30	19.80
56665	56572	QPSK	1	0	1	24	18.38	19.80

CA_48B Ant 7								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	15.42	16.60
55820	55913	QPSK	1	74	1	0	15.57	16.60
56160	56253	QPSK	1	74	1	0	15.59	16.60
56665	56572	QPSK	1	0	1	24	15.46	16.60

CA_48B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	23.44	24.00
55820	55913	QPSK	1	74	1	0	23.57	24.00
56160	56253	QPSK	1	74	1	0	23.68	24.00
56665	56572	QPSK	1	0	1	24	23.38	24.00

CA_48B Ant 6								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	20.75	21.50
55820	55913	QPSK	1	74	1	0	20.74	21.50
56160	56253	QPSK	1	74	1	0	20.87	21.50
56665	56572	QPSK	1	0	1	24	20.80	21.50

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CA_5B Ant 0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.39	24.00
20476	20575	QPSK	1	49	1	0	22.45	24.00
20600	20501	QPSK	1	0	1	49	22.41	24.00

CA_5B Ant 1								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.36	24.00
20476	20575	QPSK	1	49	1	0	22.41	24.00
20600	20501	QPSK	1	0	1	49	22.38	24.00

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.84	23.80
40185	40383	QPSK	1	99	1	0	22.77	23.80
40620	40818	QPSK	1	99	1	0	22.61	23.80
41055	41253	QPSK	1	99	1	0	22.67	23.80
41490	41292	QPSK	1	0	1	99	22.76	23.80

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.30	21.50
40185	40383	QPSK	1	99	1	0	20.09	21.50
40620	40818	QPSK	1	99	1	0	20.14	21.50
41055	41253	QPSK	1	99	1	0	20.19	21.50
41490	41292	QPSK	1	0	1	99	20.26	21.50

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.61	20.10
40185	40383	QPSK	1	99	1	0	18.65	20.10
40620	40818	QPSK	1	99	1	0	18.59	20.10
41055	41253	QPSK	1	99	1	0	18.66	20.10
41490	41292	QPSK	1	0	1	99	18.5	20.10

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.53	19.50
40185	40383	QPSK	1	99	1	0	18.38	19.50
40620	40818	QPSK	1	99	1	0	18.50	19.50
41055	41253	QPSK	1	99	1	0	18.48	19.50
41490	41292	QPSK	1	0	1	99	18.48	19.50

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.02	25.40
40185	40383	QPSK	1	99	1	0	25.12	25.40
40620	40818	QPSK	1	99	1	0	24.92	25.40
41055	41253	QPSK	1	99	1	0	25.13	25.40
41490	41292	QPSK	1	0	1	99	25.09	25.40

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.22	23.10
40185	40383	QPSK	1	99	1	0	22.30	23.10
40620	40818	QPSK	1	99	1	0	22.13	23.10
41055	41253	QPSK	1	99	1	0	22.02	23.10
41490	41292	QPSK	1	0	1	99	22.23	23.10

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.98	21.70
40185	40383	QPSK	1	99	1	0	19.90	21.70
40620	40818	QPSK	1	99	1	0	20.02	21.70
41055	41253	QPSK	1	99	1	0	19.88	21.70
41490	41292	QPSK	1	0	1	99	19.89	21.70

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.24	21.10
40185	40383	QPSK	1	99	1	0	19.37	21.10
40620	40818	QPSK	1	99	1	0	19.35	21.10
41055	41253	QPSK	1	99	1	0	19.32	21.10
41490	41292	QPSK	1	0	1	99	19.27	21.10

CA_48C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	17.23	18.60
55830	56028	QPSK	1	99	1	0	17.25	18.60
56150	56348	QPSK	1	99	1	0	17.46	18.60
56640	56442	QPSK	1	0	1	99	17.41	18.60

CA_48C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	18.96	20.30
55830	56028	QPSK	1	99	1	0	19.13	20.30
56150	56348	QPSK	1	99	1	0	19.20	20.30
56640	56442	QPSK	1	0	1	99	18.94	20.30

CA_48C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	23.79	24.00
55830	56028	QPSK	1	99	1	0	23.64	24.00
56150	56348	QPSK	1	99	1	0	23.82	24.00
56640	56442	QPSK	1	0	1	99	23.66	24.00

CA_48C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	20.36	21.30
55830	56028	QPSK	1	99	1	0	20.20	21.30
56150	56348	QPSK	1	99	1	0	20.28	21.30
56640	56442	QPSK	1	0	1	99	20.10	21.30

CA_48B Ant 4								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	17.38	18.60
55820	55913	QPSK	1	74	1	0	17.33	18.60
56160	56253	QPSK	1	74	1	0	17.18	18.60
56665	56572	QPSK	1	0	1	24	17.36	18.60

CA_48B Ant 7								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	19.02	20.30
55820	55913	QPSK	1	74	1	0	19.17	20.30
56160	56253	QPSK	1	74	1	0	19.00	20.30
56665	56572	QPSK	1	0	1	24	19.05	20.30

CA_48B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	23.44	24.00
55820	55913	QPSK	1	74	1	0	23.57	24.00
56160	56253	QPSK	1	74	1	0	23.68	24.00
56665	56572	QPSK	1	0	1	24	23.38	24.00

CA_48B Ant 6								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	20.24	21.30
55820	55913	QPSK	1	74	1	0	20.25	21.30
56160	56253	QPSK	1	74	1	0	20.26	21.30
56665	56572	QPSK	1	0	1	24	20.30	21.30

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CA_5B Ant 0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.39	24.00
20476	20575	QPSK	1	49	1	0	22.45	24.00
20600	20501	QPSK	1	0	1	49	22.41	24.00

CA_5B Ant 1								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.36	24.00
20476	20575	QPSK	1	49	1	0	22.41	24.00
20600	20501	QPSK	1	0	1	49	22.38	24.00

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.84	24.00
40185	40383	QPSK	1	99	1	0	22.77	24.00
40620	40818	QPSK	1	99	1	0	22.61	24.00
41055	41253	QPSK	1	99	1	0	22.67	24.00
41490	41292	QPSK	1	0	1	99	22.76	24.00

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.01	24.00
40185	40383	QPSK	1	99	1	0	23.25	24.00
40620	40818	QPSK	1	99	1	0	23.11	24.00
41055	41253	QPSK	1	99	1	0	22.99	24.00
41490	41292	QPSK	1	0	1	99	23	24.00

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.19	24.00
40185	40383	QPSK	1	99	1	0	23.03	24.00
40620	40818	QPSK	1	99	1	0	22.95	24.00
41055	41253	QPSK	1	99	1	0	22.92	24.00
41490	41292	QPSK	1	0	1	99	23.09	24.00

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.13	24.00
40185	40383	QPSK	1	99	1	0	23.13	24.00
40620	40818	QPSK	1	99	1	0	23.36	24.00
41055	41253	QPSK	1	99	1	0	23.39	24.00
41490	41292	QPSK	1	0	1	99	23.18	24.00

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.50	27.00
40185	40383	QPSK	1	99	1	0	25.51	27.00
40620	40818	QPSK	1	99	1	0	25.64	27.00
41055	41253	QPSK	1	99	1	0	25.44	27.00
41490	41292	QPSK	1	0	1	99	25.6	27.00

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.24	26.00
40185	40383	QPSK	1	99	1	0	25.09	26.00
40620	40818	QPSK	1	99	1	0	25.32	26.00
41055	41253	QPSK	1	99	1	0	25.06	26.00
41490	41292	QPSK	1	0	1	99	25.28	26.00

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.59	26.00
40185	40383	QPSK	1	99	1	0	24.63	26.00
40620	40818	QPSK	1	99	1	0	24.61	26.00
41055	41253	QPSK	1	99	1	0	24.64	26.00
41490	41292	QPSK	1	0	1	99	24.54	26.00

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.04	25.00
40185	40383	QPSK	1	99	1	0	24.07	25.00
40620	40818	QPSK	1	99	1	0	24.27	25.00
41055	41253	QPSK	1	99	1	0	24.20	25.00
41490	41292	QPSK	1	0	1	99	24.15	25.00

CA_48C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	20.31	21.70
55830	56028	QPSK	1	99	1	0	20.28	21.70
56150	56348	QPSK	1	99	1	0	20.53	21.70
56640	56442	QPSK	1	0	1	99	20.46	21.70

CA_48C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	20.72	21.60
55830	56028	QPSK	1	99	1	0	20.65	21.60
56150	56348	QPSK	1	99	1	0	20.77	21.60
56640	56442	QPSK	1	0	1	99	20.63	21.60

CA_48C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	22.36	23.70
55830	56028	QPSK	1	99	1	0	22.54	23.70
56150	56348	QPSK	1	99	1	0	22.40	23.70
56640	56442	QPSK	1	0	1	99	22.34	23.70

CA_48C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	21.35	23.00
55830	56028	QPSK	1	99	1	0	21.56	23.00
56150	56348	QPSK	1	99	1	0	21.58	23.00
56640	56442	QPSK	1	0	1	99	21.47	23.00

CA_48B Ant 4								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	20.40	21.70
55820	55913	QPSK	1	74	1	0	20.24	21.70
56160	56253	QPSK	1	74	1	0	20.52	21.70
56665	56572	QPSK	1	0	1	24	20.39	21.70

CA_48B Ant 7								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	20.46	21.60
55820	55913	QPSK	1	74	1	0	20.56	21.60
56160	56253	QPSK	1	74	1	0	20.46	21.60
56665	56572	QPSK	1	0	1	24	20.33	21.60

CA_48B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	22.35	23.70
55820	55913	QPSK	1	74	1	0	22.47	23.70
56160	56253	QPSK	1	74	1	0	22.42	23.70
56665	56572	QPSK	1	0	1	24	22.38	23.70

CA_48B Ant 6								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	21.32	23.00
55820	55913	QPSK	1	74	1	0	21.40	23.00
56160	56253	QPSK	1	74	1	0	21.59	23.00
56665	56572	QPSK	1	0	1	24	21.45	23.00

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CA_5B Ant 0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.39	24.00
20476	20575	QPSK	1	49	1	0	22.45	24.00
20600	20501	QPSK	1	0	1	49	22.41	24.00

CA_5B Ant 1								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.36	24.00
20476	20575	QPSK	1	49	1	0	22.41	24.00
20600	20501	QPSK	1	0	1	49	22.38	24.00

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.24	21.90
40185	40383	QPSK	1	99	1	0	21.42	21.90
40620	40818	QPSK	1	99	1	0	21.29	21.90
41055	41253	QPSK	1	99	1	0	21.31	21.90
41490	41292	QPSK	1	0	1	99	21.32	21.90

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.18	18.60
40185	40383	QPSK	1	99	1	0	18.23	18.60
40620	40818	QPSK	1	99	1	0	18.09	18.60
41055	41253	QPSK	1	99	1	0	18.08	18.60
41490	41292	QPSK	1	0	1	99	18.18	18.60

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.53	20.10
40185	40383	QPSK	1	99	1	0	18.74	20.10
40620	40818	QPSK	1	99	1	0	18.51	20.10
41055	41253	QPSK	1	99	1	0	18.59	20.10
41490	41292	QPSK	1	0	1	99	18.71	20.10

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.06	18.00
40185	40383	QPSK	1	99	1	0	17.13	18.00
40620	40818	QPSK	1	99	1	0	16.95	18.00
41055	41253	QPSK	1	99	1	0	16.89	18.00
41490	41292	QPSK	1	0	1	99	17.11	18.00

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.17	23.50
40185	40383	QPSK	1	99	1	0	23.28	23.50
40620	40818	QPSK	1	99	1	0	23.09	23.50
41055	41253	QPSK	1	99	1	0	23.25	23.50
41490	41292	QPSK	1	0	1	99	23.11	23.50

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.73	20.20
40185	40383	QPSK	1	99	1	0	19.88	20.20
40620	40818	QPSK	1	99	1	0	19.68	20.20
41055	41253	QPSK	1	99	1	0	19.81	20.20
41490	41292	QPSK	1	0	1	99	19.76	20.20

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.22	21.70
40185	40383	QPSK	1	99	1	0	20.32	21.70
40620	40818	QPSK	1	99	1	0	20.22	21.70
41055	41253	QPSK	1	99	1	0	20.08	21.70
41490	41292	QPSK	1	0	1	99	20.12	21.70

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.23	19.60
40185	40383	QPSK	1	99	1	0	17.99	19.60
40620	40818	QPSK	1	99	1	0	18.20	19.60
41055	41253	QPSK	1	99	1	0	18.07	19.60
41490	41292	QPSK	1	0	1	99	18.01	19.60

CA_48C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	13.81	14.70
55830	56028	QPSK	1	99	1	0	13.83	14.70
56150	56348	QPSK	1	99	1	0	14.07	14.70
56640	56442	QPSK	1	0	1	99	14.04	14.70

CA_48C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	16.42	17.70
55830	56028	QPSK	1	99	1	0	16.35	17.70
56150	56348	QPSK	1	99	1	0	16.47	17.70
56640	56442	QPSK	1	0	1	99	16.33	17.70

CA_48C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	20.59	21.30
55830	56028	QPSK	1	99	1	0	20.44	21.30
56150	56348	QPSK	1	99	1	0	20.66	21.30
56640	56442	QPSK	1	0	1	99	20.46	21.30

CA_48C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	18.50	20.00
55830	56028	QPSK	1	99	1	0	18.71	20.00
56150	56348	QPSK	1	99	1	0	18.73	20.00
56640	56442	QPSK	1	0	1	99	18.62	20.00

CA_48B Ant 4								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	13.71	24.00
55820	55913	QPSK	1	74	1	0	13.68	24.00
56160	56253	QPSK	1	74	1	0	13.96	24.00
56665	56572	QPSK	1	0	1	24	13.87	24.00

CA_48B Ant 7								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	16.16	22.00
55820	55913	QPSK	1	74	1	0	16.26	22.00
56160	56253	QPSK	1	74	1	0	16.16	22.00
56665	56572	QPSK	1	0	1	24	16.03	22.00

CA_48B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	20.44	24.00
55820	55913	QPSK	1	74	1	0	20.57	24.00
56160	56253	QPSK	1	74	1	0	20.62	24.00
56665	56572	QPSK	1	0	1	24	20.38	24.00

CA_48B Ant 6								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	18.32	20.00
55820	55913	QPSK	1	74	1	0	18.40	20.00
56160	56253	QPSK	1	74	1	0	18.59	20.00
56665	56572	QPSK	1	0	1	24	18.45	20.00