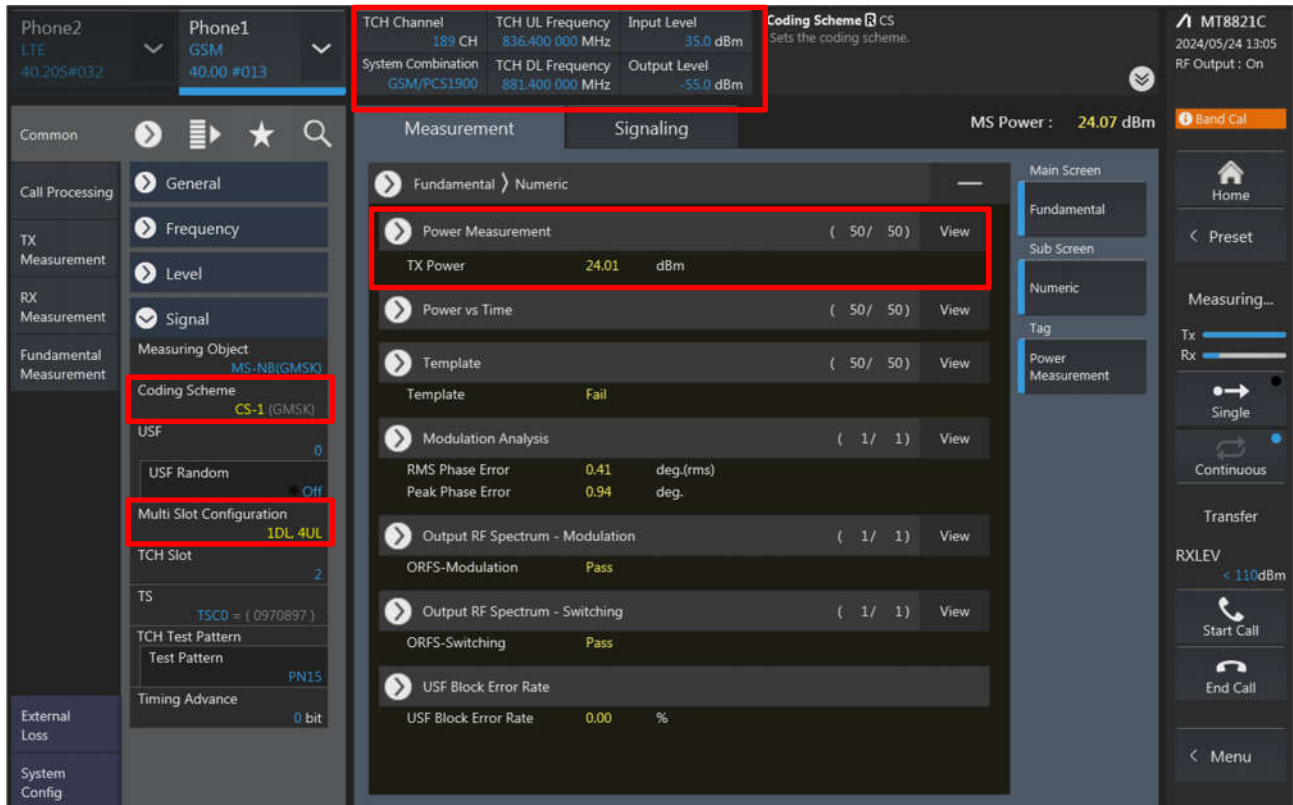


Power measurement connection diagram:

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.

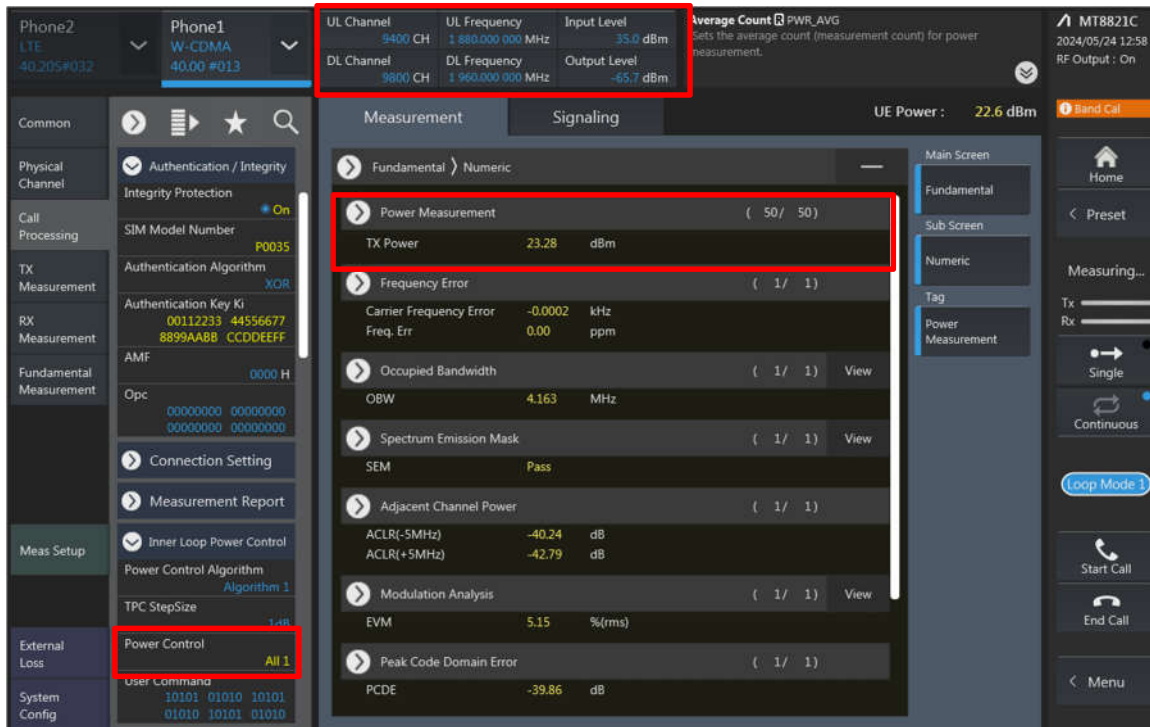
<GSM>



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

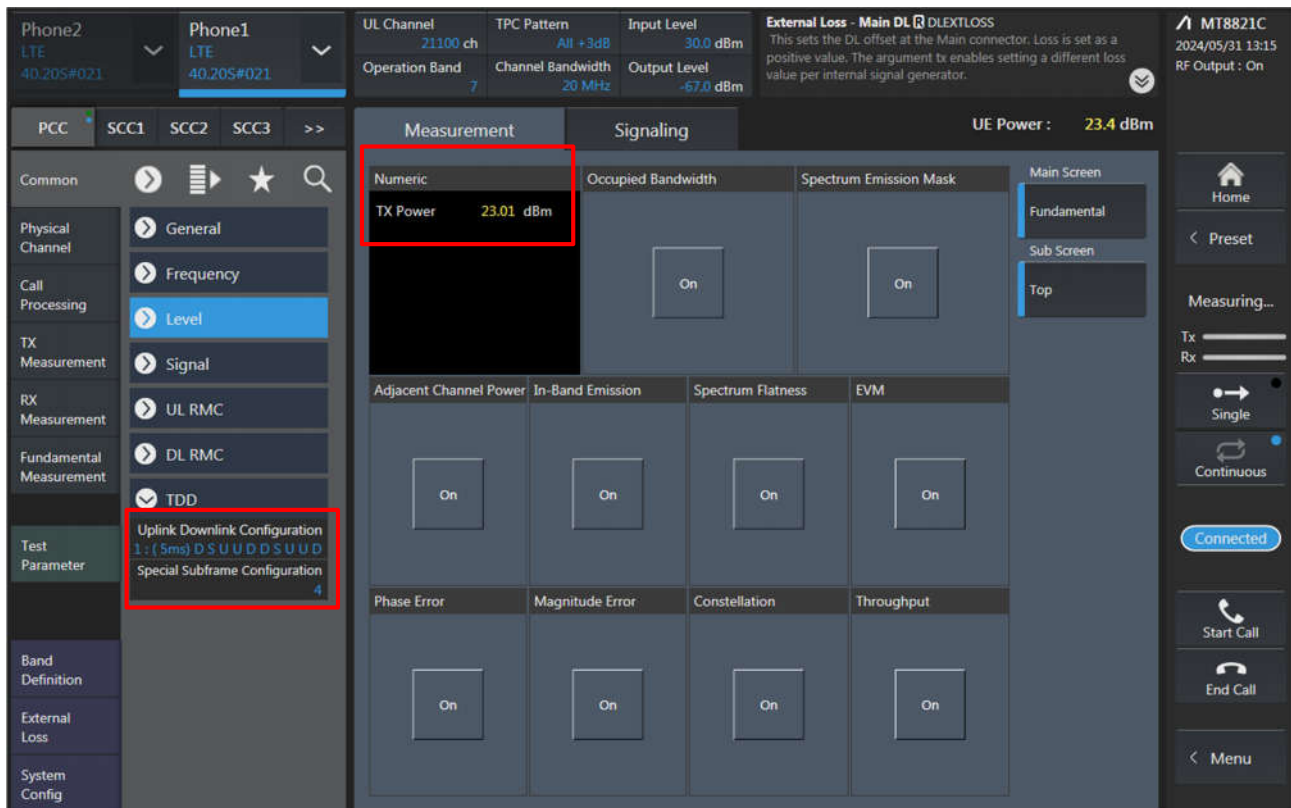
- Top Bar:** Shows Phone2 (LTE, 40.205#032) and Phone1 (GSM, 40.00 #013). The TCH Channel is 189 CH, TCH UL Frequency is 836.400 000 MHz, Input Level is 35.0 dBm, TCH DL Frequency is 881.400 000 MHz, and Output Level is -55.0 dBm. The Coding Scheme is CS.
- Left Sidebar:** Contains navigation options 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 timestamp 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>



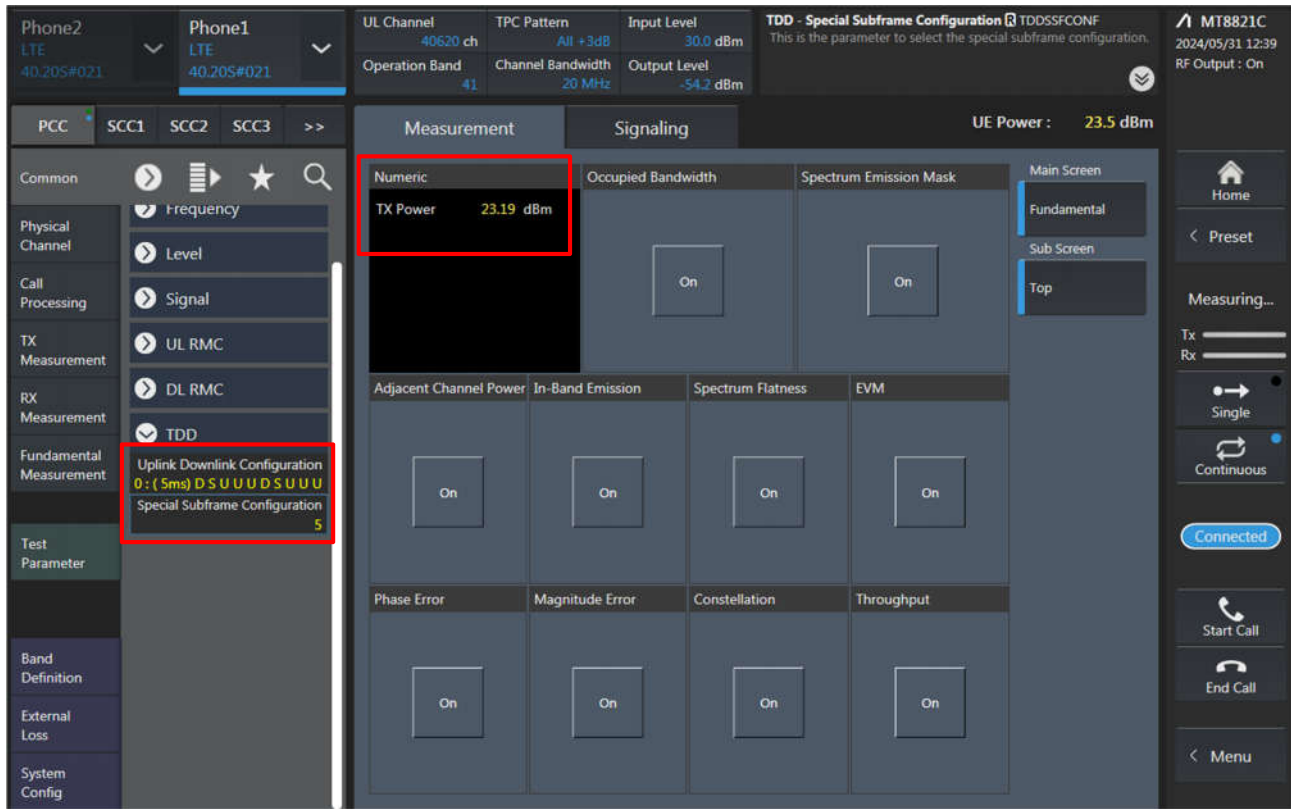
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.205#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing various parameters. A red box highlights the 'Power Measurement' section, which includes 'TX Power' at 23.28 dBm. Another red box highlights the 'Power Control' section, showing 'Power Control Algorithm' as 'Algorithm 1' and 'Power Control' as 'All 1'. The 'UE Power' is 22.6 dBm. The 'Fundamental' section shows 'Carrier Frequency Error' as -0.0002 kHz and 'Freq. Err' as 0.00 ppm. The 'Occupied Bandwidth' is 4.163 MHz. The 'Spectrum Emission Mask' is 'Pass'. The 'Adjacent Channel Power' is -40.24 dB and -42.79 dB. The 'Modulation Analysis' shows 'EVM' as 5.15 % (rms). The 'Peak Code Domain Error' is -39.86 dB. The 'PCDE' is -39.86 dB. The 'Average Count' is 50/50. The 'Main Screen' shows 'Fundamental', 'Sub Screen', 'Numeric', and 'Tag'. The 'Measuring...' section shows 'Tx' and 'Rx' levels, 'Single' and 'Continuous' modes, and 'Loop Mode 1'. The 'Start Call' and 'End Call' buttons are visible. The 'Menu' button is at the bottom 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 various parameters. 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, showing 'Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration' as 4. The 'UE Power' is 23.4 dBm. The 'Fundamental' section shows 'Carrier Frequency Error' as -0.0002 kHz and 'Freq. Err' as 0.00 ppm. The 'Occupied Bandwidth' is 4.163 MHz. The 'Spectrum Emission Mask' is 'Pass'. The 'Adjacent Channel Power' is -40.24 dB and -42.79 dB. The 'Modulation Analysis' shows 'EVM' as 5.15 % (rms). The 'Peak Code Domain Error' is -39.86 dB. The 'PCDE' is -39.86 dB. The 'Average Count' is 50/50. The 'Main Screen' shows 'Fundamental', 'Sub Screen', 'Numeric', and 'Tag'. The 'Measuring...' section shows 'Tx' and 'Rx' levels, 'Single' and 'Continuous' modes, and 'Loop Mode 1'. The 'Start Call' and 'End Call' buttons are visible. The 'Menu' button is at the bottom right.

<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

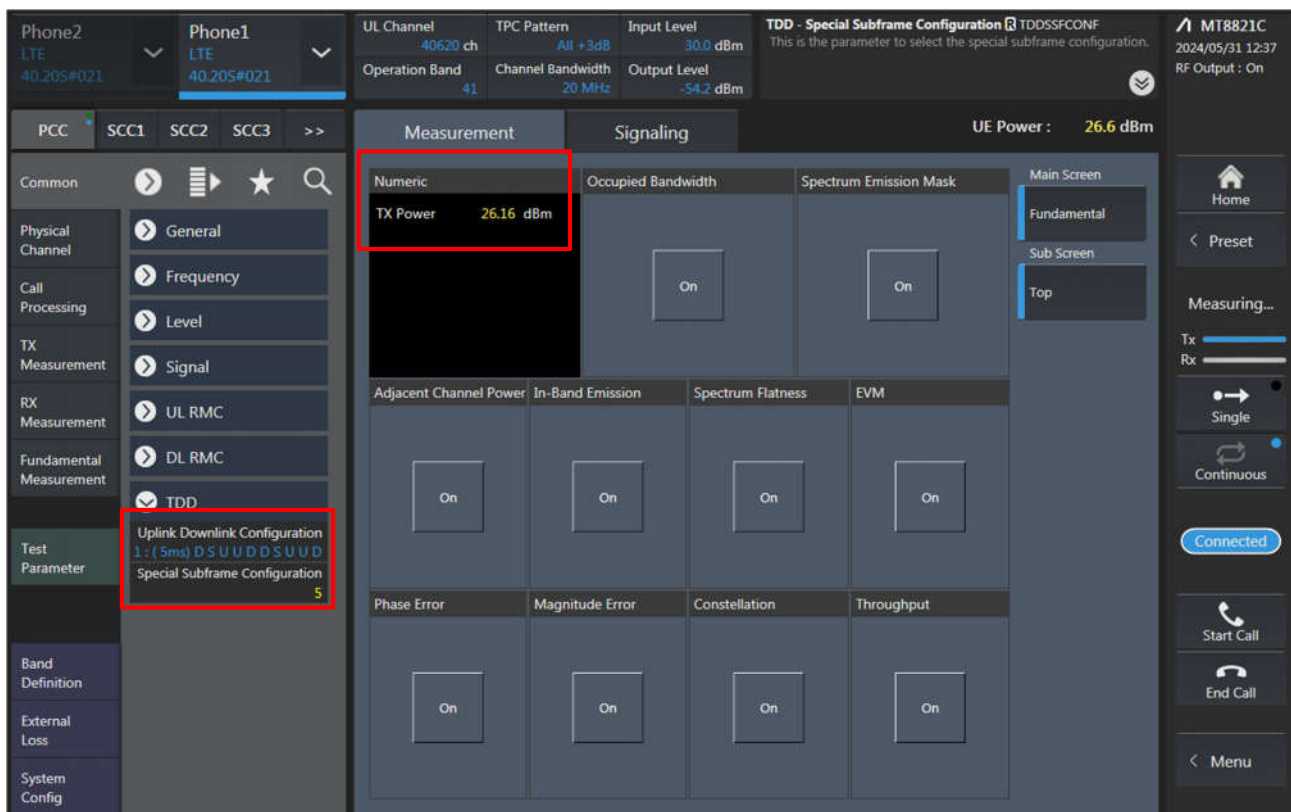
Common Physical Channel Call Processing TX Measurement RX Measurement Fundamental Measurement Test Parameter Band Definition External Loss System Config

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

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

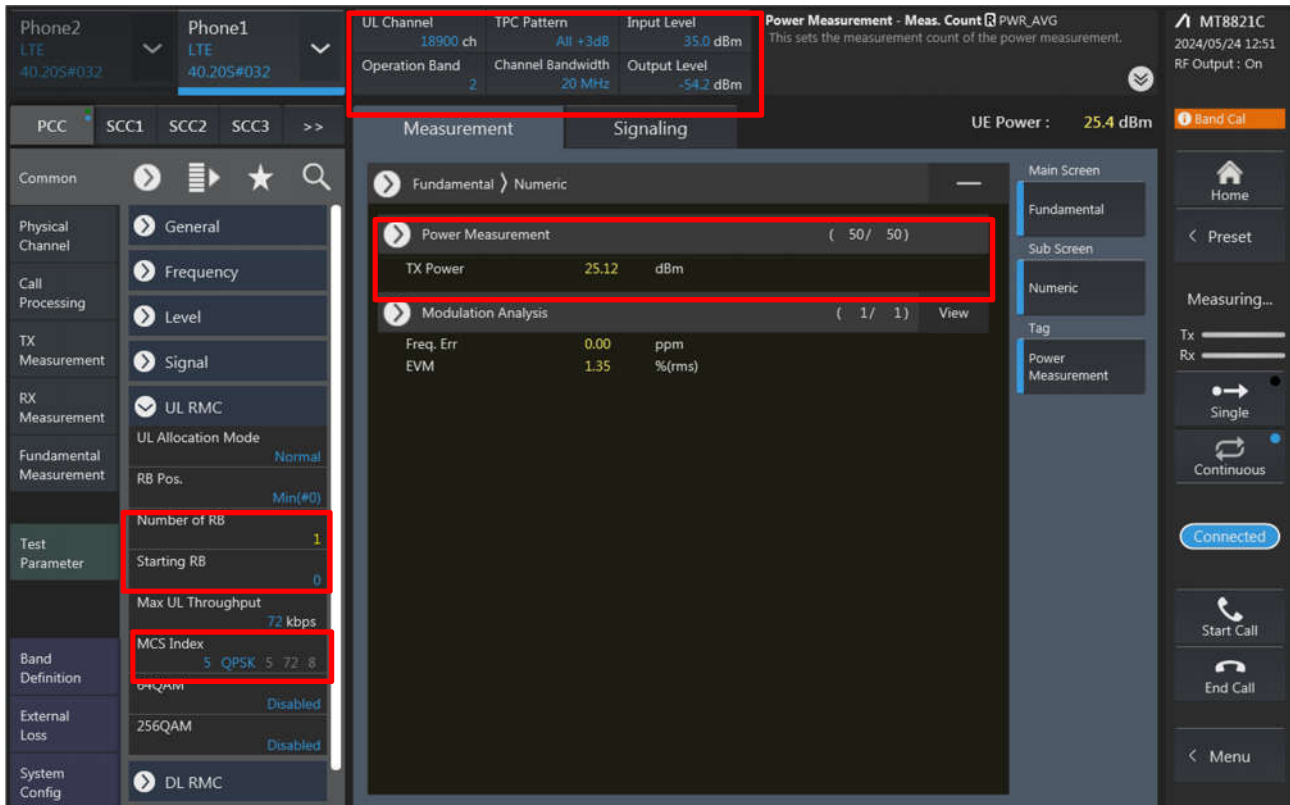
On On On On

Common 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 Uplink Downlink Configuration 1 : (5ms) D S U U D D S U U U Special Subframe Configuration 5

Main Screen Fundamental Sub Screen Top

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



Phone1 40.20S#032

UL Channel 18900 ch **TPC Pattern** All +3dB **Input Level** 35.0 dBm

Operation Band 2 **Channel Bandwidth** 20 MHz **Output Level** -54.2 dBm

Power Measurement - Meas. Count PWR_AVG

UE Power : 25.4 dBm

Measurement **Signaling**

Power Measurement (50 / 50)

TX Power 25.12 dBm

Modulation Analysis (1 / 1) View

Freq. Err 0.00 ppm

EVM 1.35 %(rms)

Test Parameter

Number of RB 1

Starting RB 0

Max UL Throughput 72 kbps

MCS Index 5 QPSK 5 72 8

Band Definition 256QAM Disabled

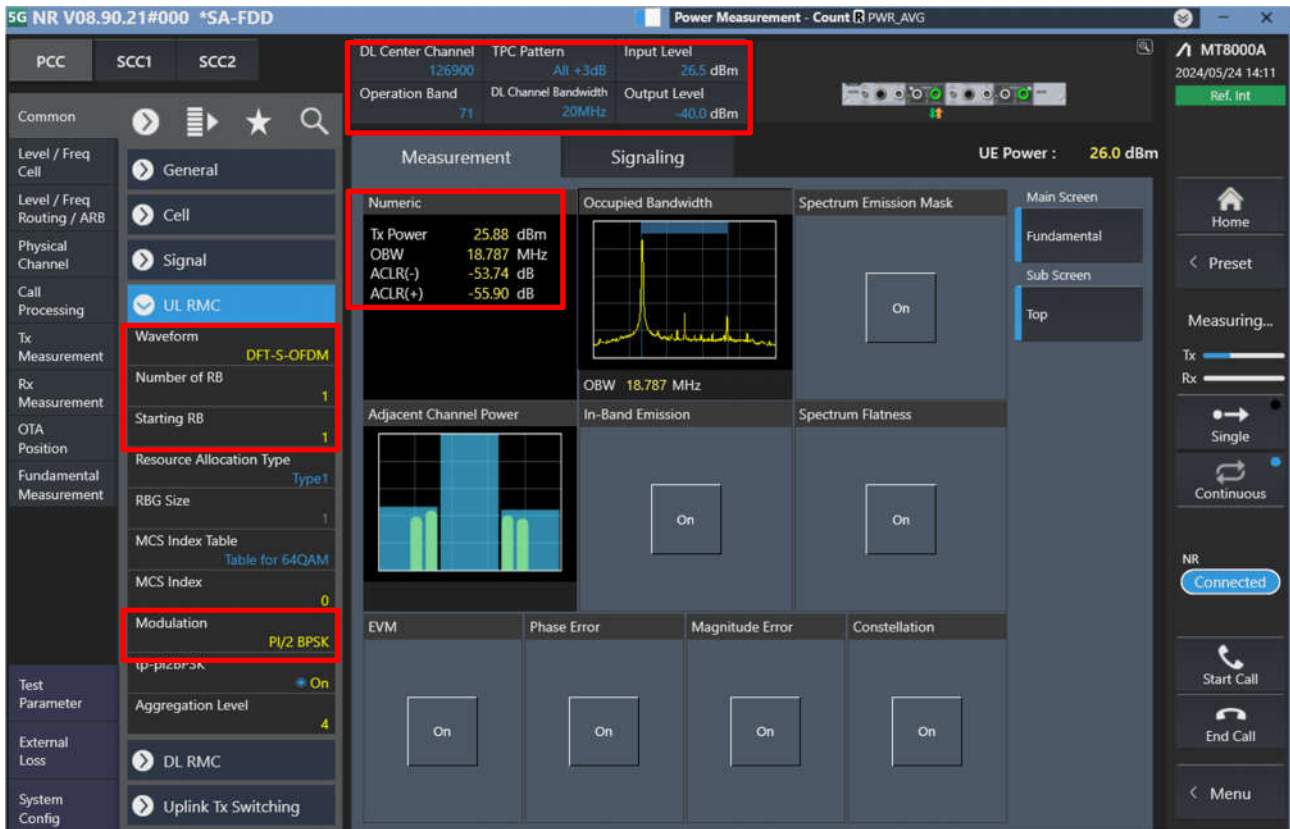
External Loss Disabled

System Config DL RMC

MT8821C 2024/05/24 12:51 RF Output : On

Home **Preset** **Measuring...** **Connected** **Start Call** **End Call** **Menu**

<5G NR FR1>



5G NR V08.90.21#000 *SA-FDD **Power Measurement - Count** PWR_AVG

DL Center Channel 126900 **TPC Pattern** All +3dB **Input Level** 26.5 dBm

Operation Band 71 **DL Channel Bandwidth** 20MHz **Output Level** -40.0 dBm

UE Power : 26.0 dBm

Measurement **Signaling**

Numeric

Tx Power 25.88 dBm

OBW 18.787 MHz

ACL(-) -53.74 dB

ACL(+) -55.90 dB

Occupied Bandwidth OBW 18.787 MHz

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

Test Parameter

Waveform DFT-S-OFDM

Number of RB 1

Starting RB 1

Resource Allocation Type Type1

RBG Size 1

MCS Index Table Table for 64QAM

MCS Index 0

Modulation 16-QAM

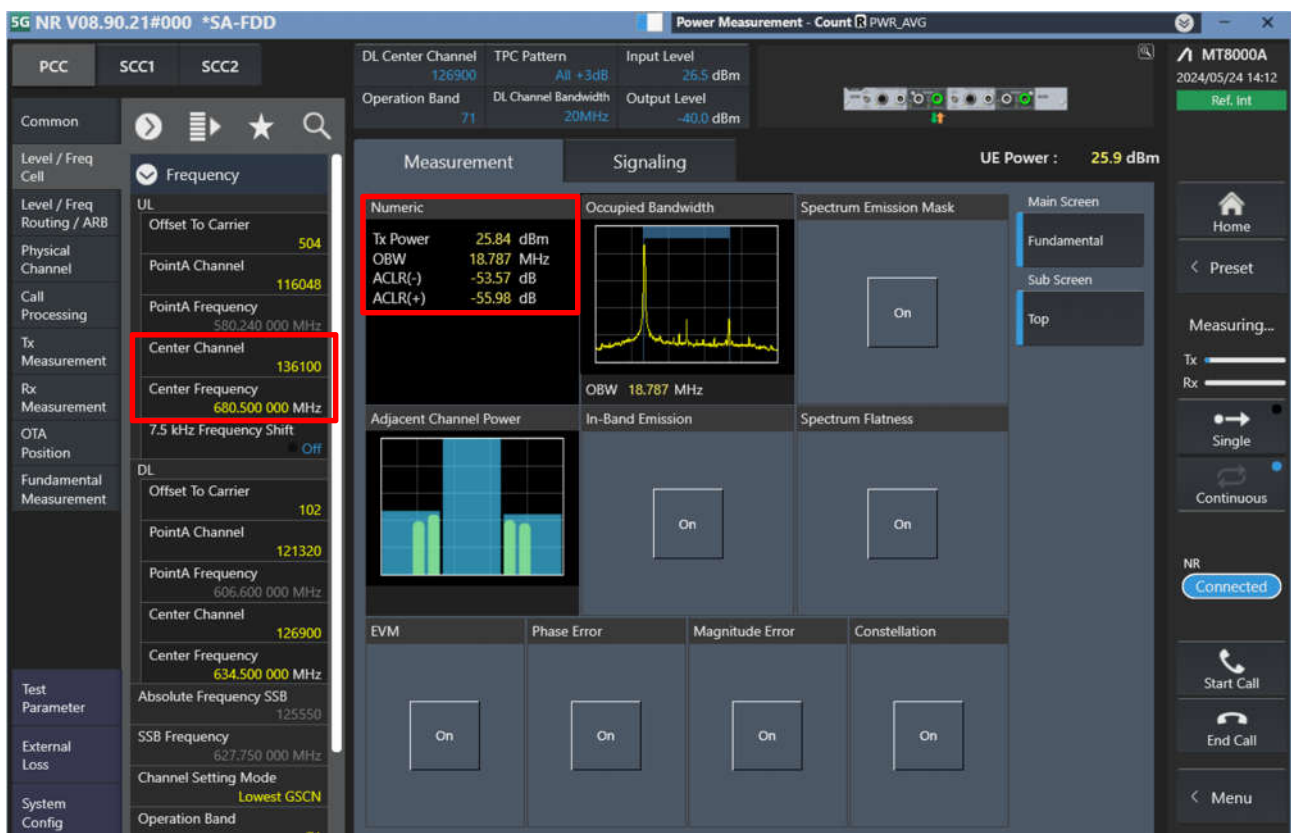
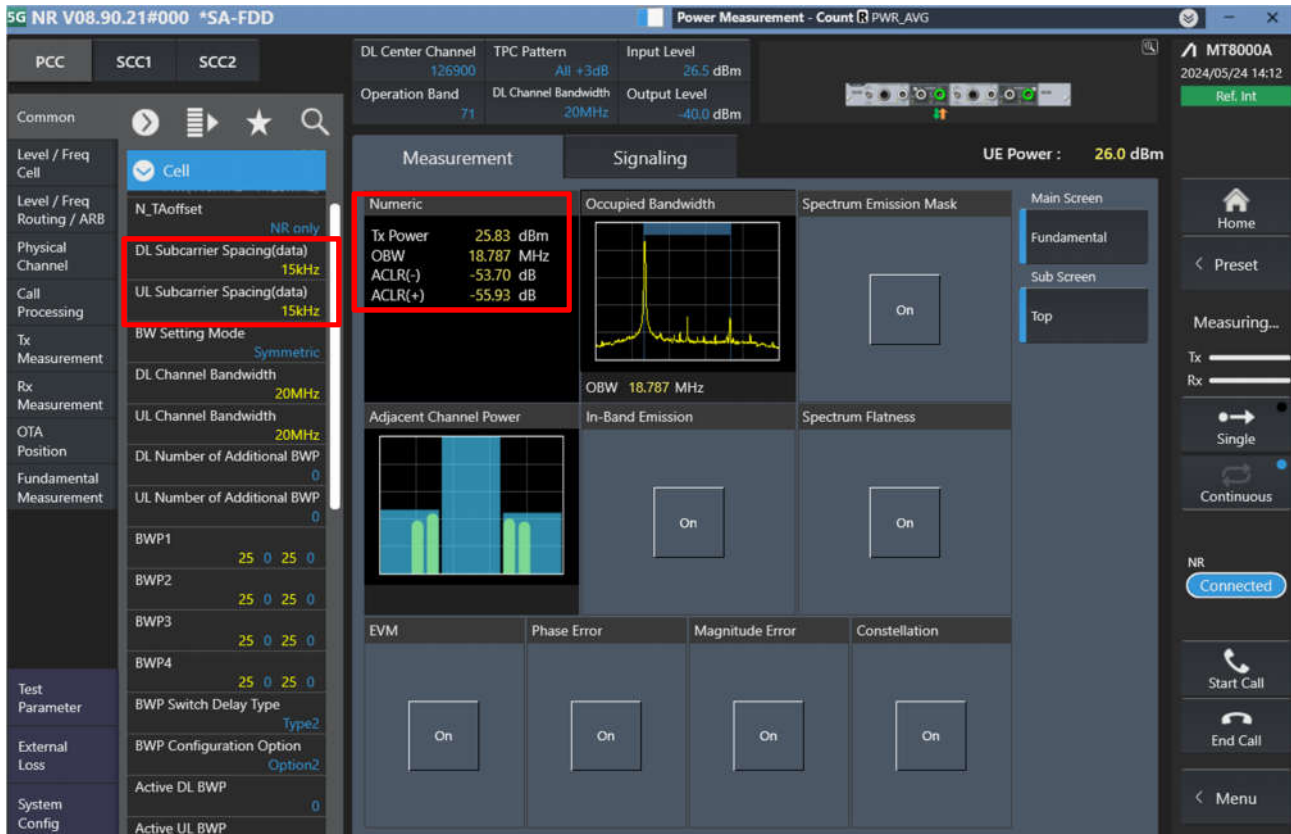
Aggregation Level 4

DL RMC On

Uplink Tx Switching On

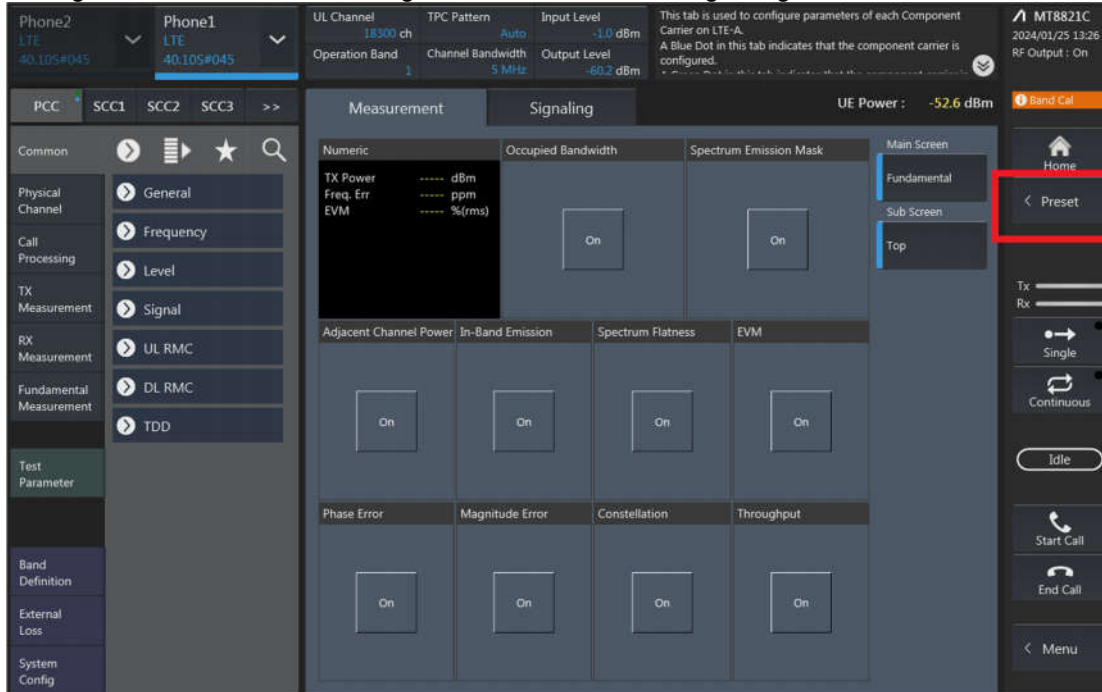
MT8000A 2024/05/24 14:11 Ref. Int

Home **Preset** **Measuring...** **Connected** **Start Call** **End Call** **Menu**



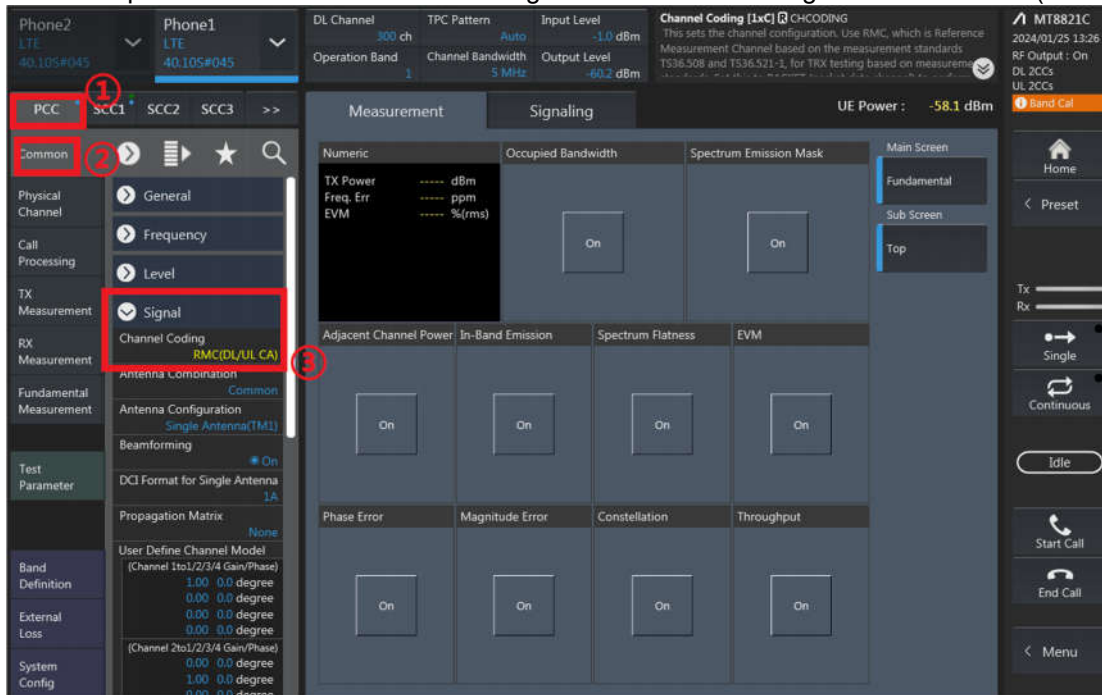
LTE Uplink and Downlink Carrier Aggregation configurations:

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

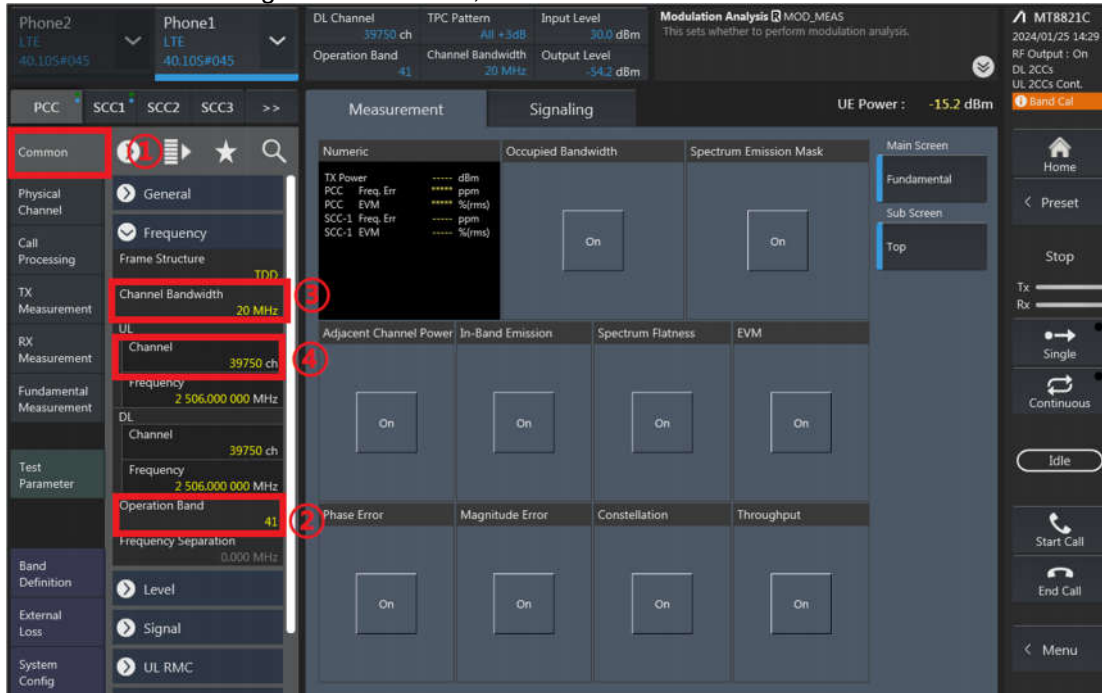


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

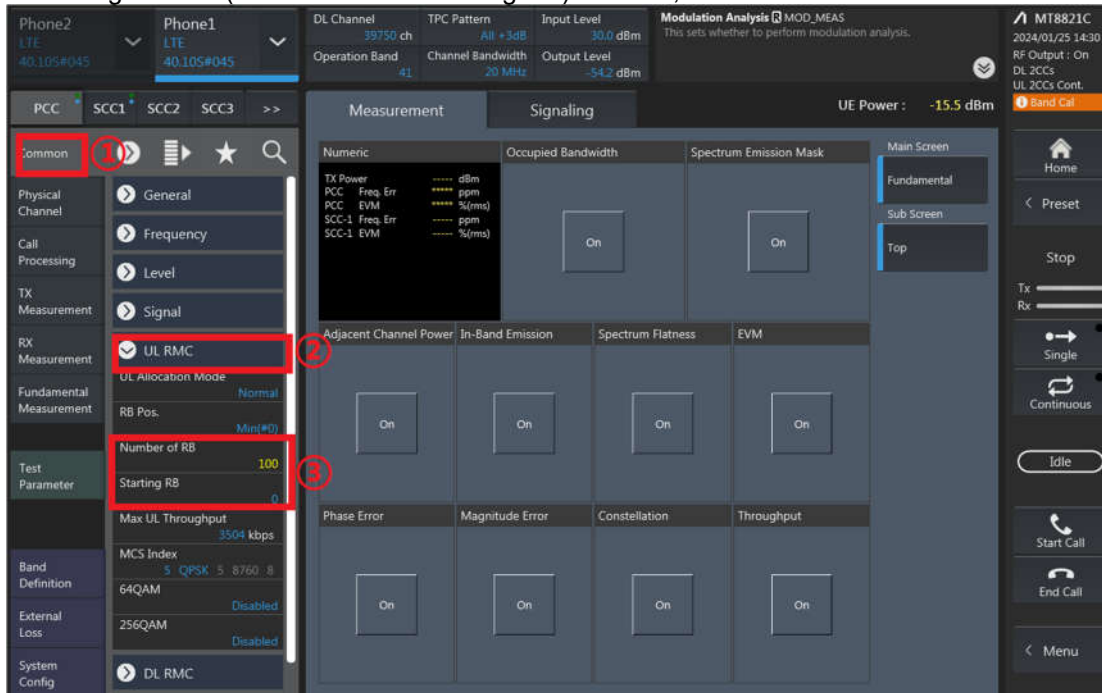
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



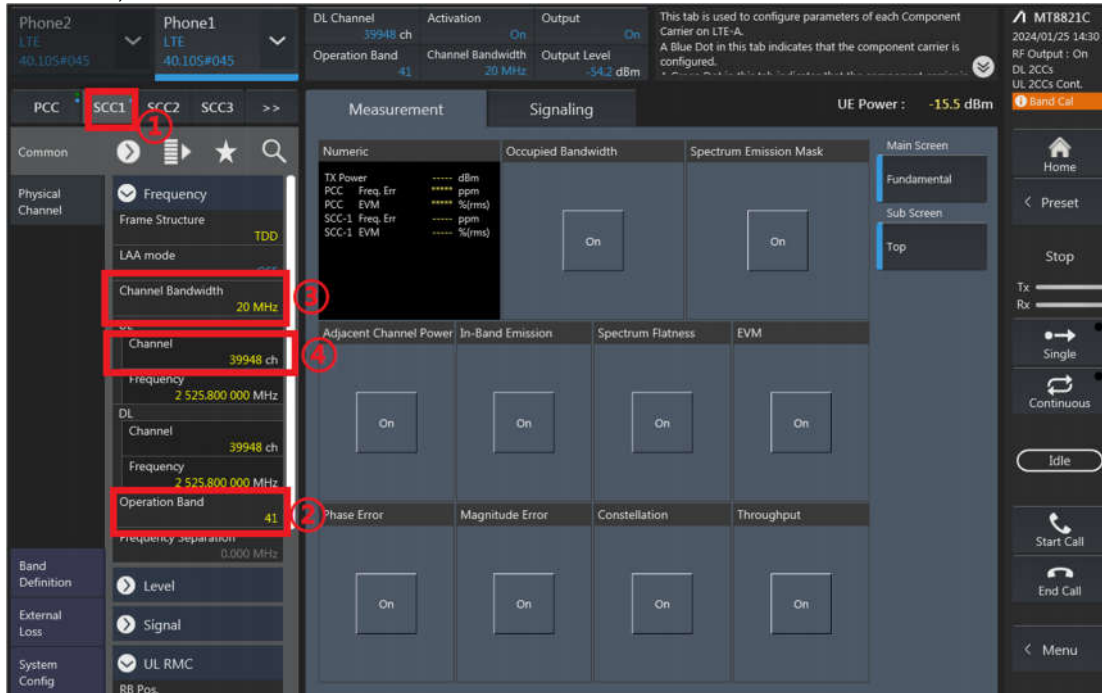
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



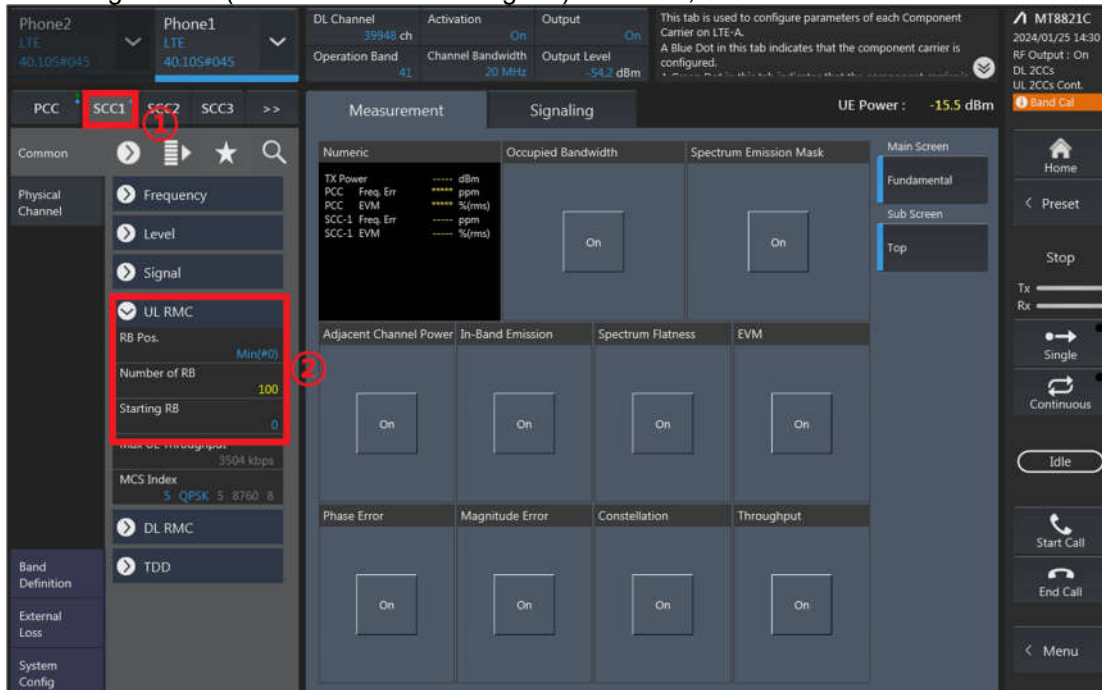
RB configurations (Number of RB / Starting RB) for PCC;



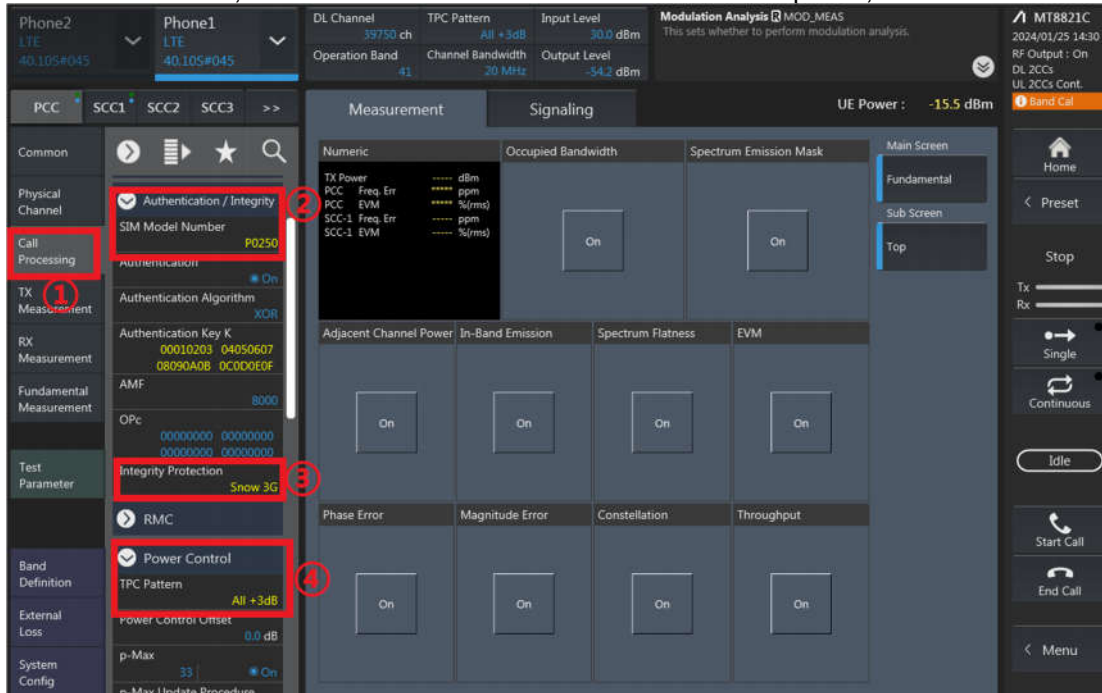
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



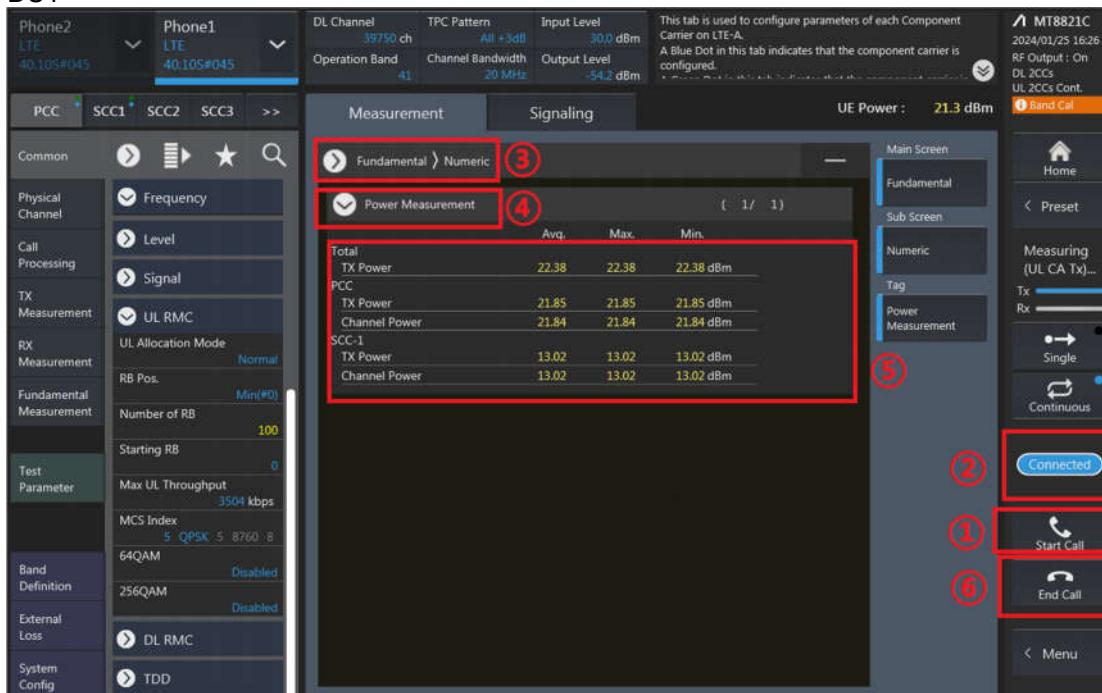
RB configurations (Number of RB / Starting RB) for SCC1;



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



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