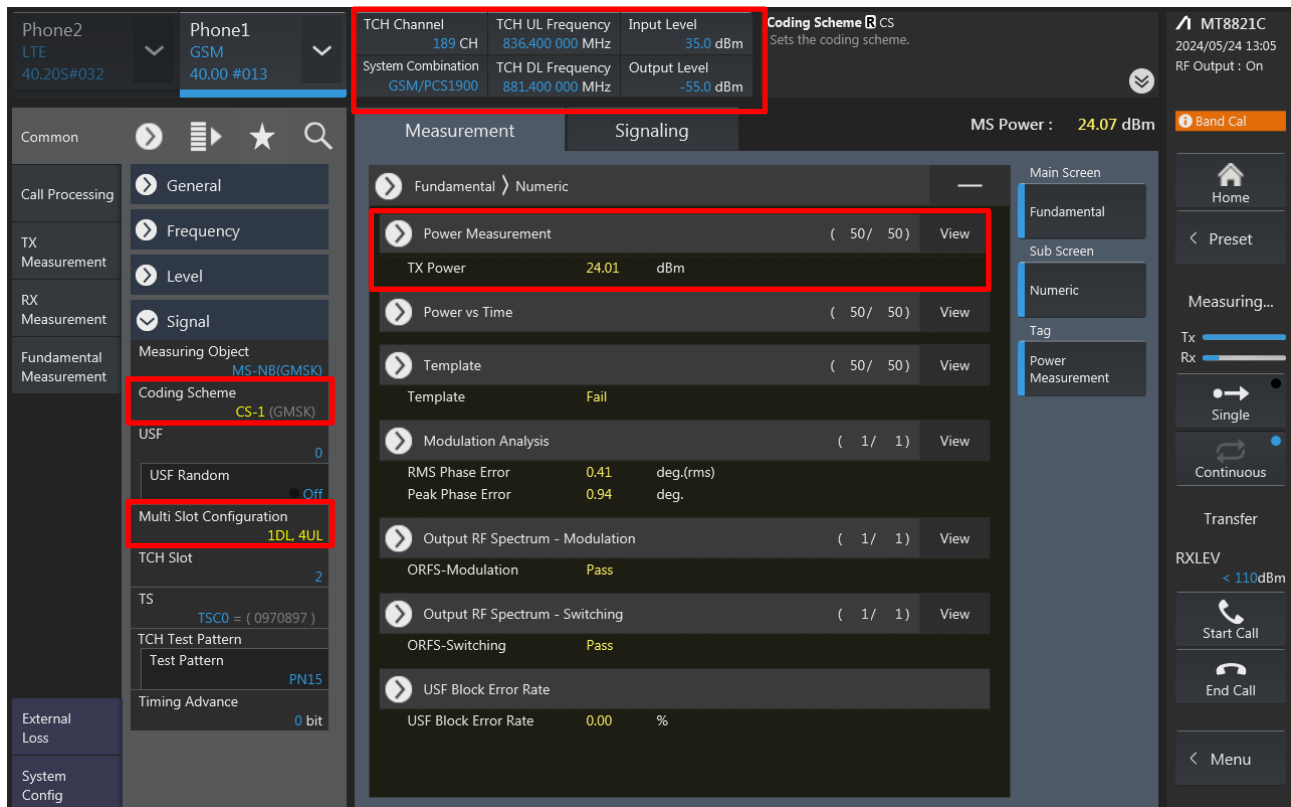


Power measurement connection diagram:

The power measurement for 2G/3G/LTE/5G FR1/UL and DL CA is to establish a connection between device and call box, and via call box to configure Bands, channel, BWs, RB size, carrier aggregation of CA, frequency channels, SCS and maximum output power. Hereunder is screenshot call box connection information for 2G/3G/LTE/5G FR1/UL and DL CA.

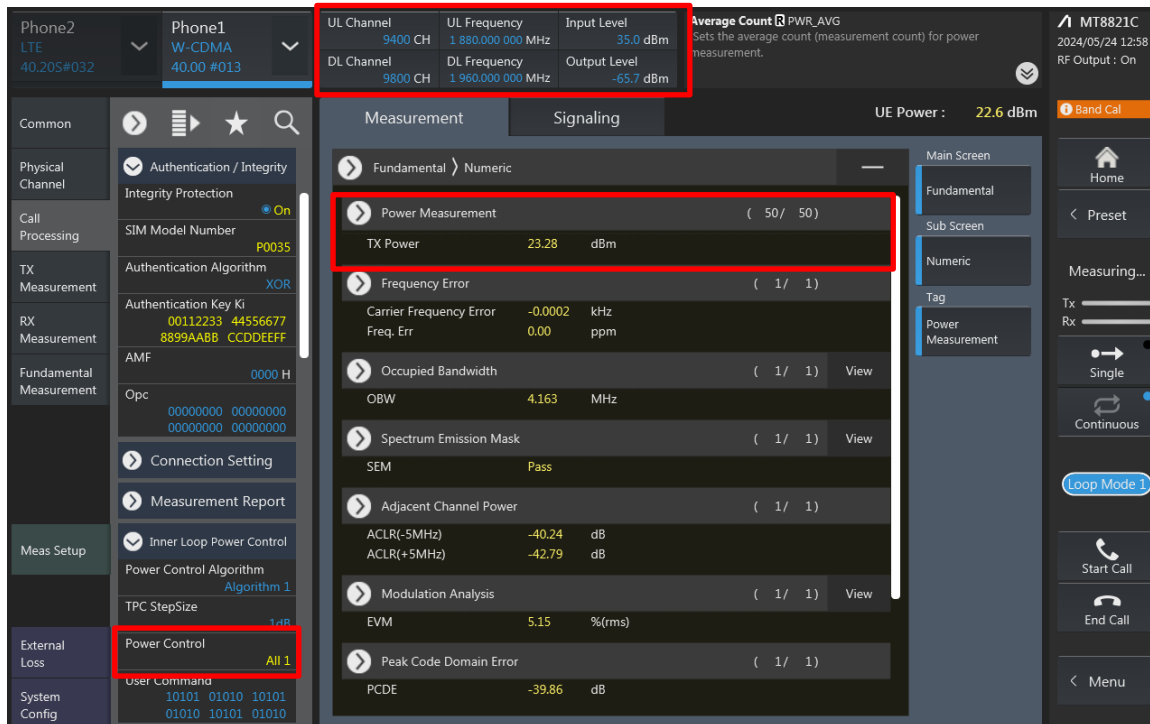
<GSM>



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

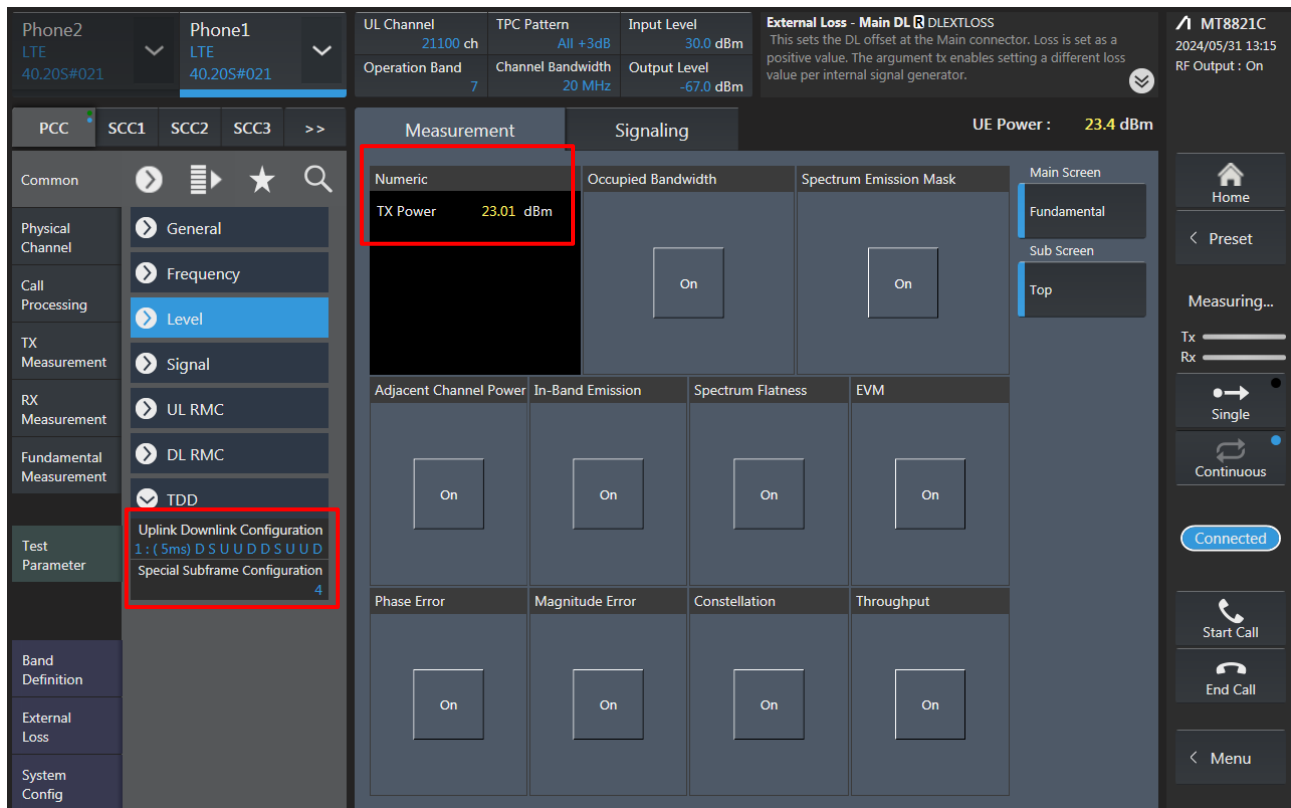
- Top Bar:** Shows Phone2 (LTE, 40.205#032) and Phone1 (GSM, 40.00 #013). It also displays TCH Channel (189 CH), TCH UL Frequency (836.400 000 MHz), Input Level (35.0 dBm), TCH DL Frequency (881.400 000 MHz), and Output Level (-55.0 dBm). The Coding Scheme is set to CS.
- Left Sidebar:** Contains navigation options like Common, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. The 'Fundamental Measurement' section is expanded, showing options for General, Frequency, Level, Signal, and Measuring Object (MS-NB(GMSK)).
- Main Area:** Displays the 'Measurement' tab with a 'Fundamental' sub-tab. The 'Power Measurement' section shows a 'TX Power' of 24.01 dBm. Other sections include 'Power vs Time', 'Template' (Fail), 'Modulation Analysis' (RMS Phase Error: 0.41 deg.(rms), Peak Phase Error: 0.94 deg.), 'Output RF Spectrum - Modulation' (ORFS-Modulation: Pass), 'Output RF Spectrum - Switching' (ORFS-Switching: Pass), and 'USF Block Error Rate' (USF Block Error Rate: 0.00 %).
- Right Sidebar:** Shows the 'Main Screen' with options for Fundamental, Sub Screen, Numeric, and Tag. It also displays the 'MS Power' as 24.07 dBm and the 'Band Cal' status as 'On'.

<WCDMA>



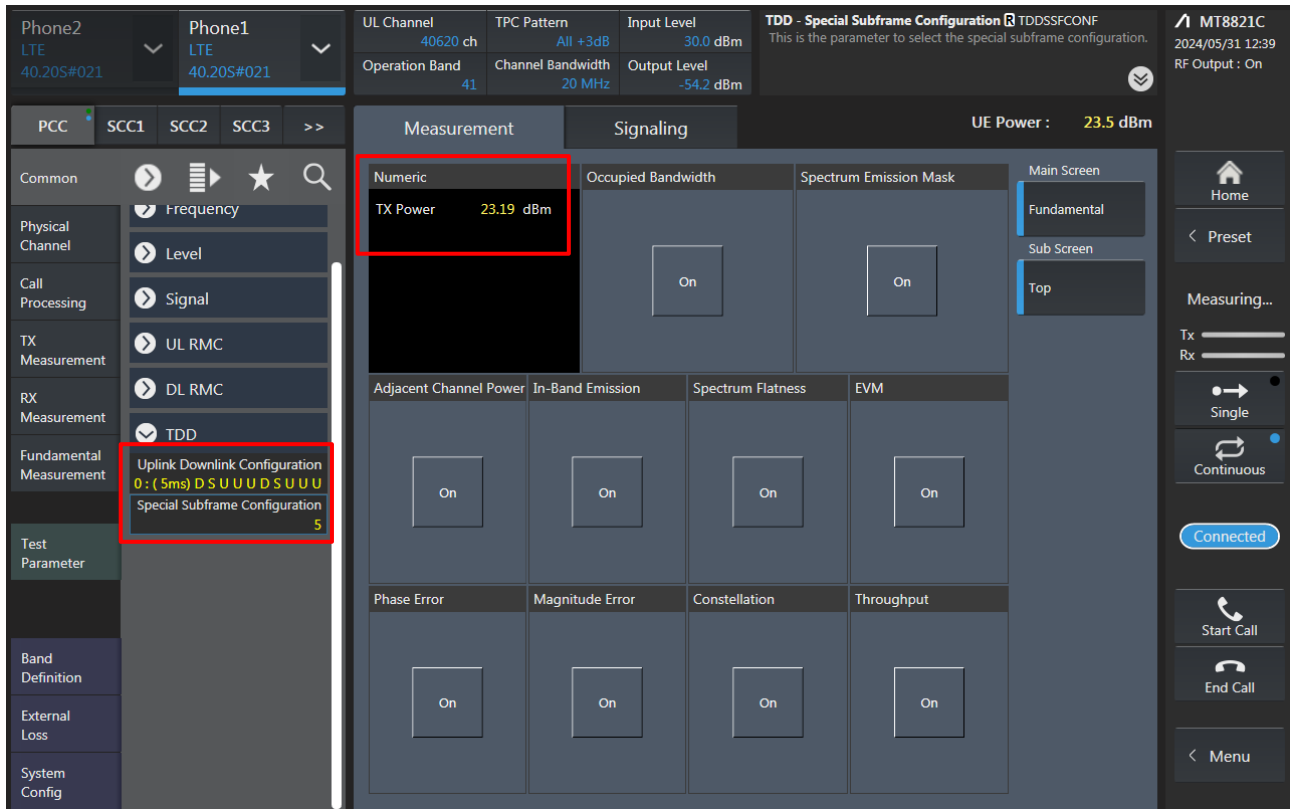
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.20S#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing 'Fundamental' and 'Numeric' views. The 'Power Measurement' section is highlighted with a red box, showing 'TX Power' at 23.28 dBm. The 'Occupied Bandwidth' section shows 'OBW' at 4.163 MHz. The 'Adjacent Channel Power' section shows 'ACLR(-5MHz)' at -40.24 dB and 'ACLR(+5MHz)' at -42.79 dB. The 'Modulation Analysis' section shows 'EVM' at 5.15 % (rms). The 'Peak Code Domain Error' section shows 'PCDE' at -39.86 dB. The 'UE Power' is 22.6 dBm. The 'Band Cal' button is visible on the right. The 'Meas Setup' section on the left shows 'Power Control' set to 'All 1'.

<LTE>



The screenshot shows the LTE measurement interface. The top bar displays 'Phone2 LTE 40.20S#021' and 'Phone1 LTE 40.20S#021'. The 'Measurement' tab is active, showing 'Numeric' and 'Occupied Bandwidth' views. The 'Power Measurement' section is highlighted with a red box, showing 'TX Power' at 23.01 dBm. The 'Occupied Bandwidth' section shows 'OBW' at 20 MHz. The 'Adjacent Channel Power' section shows 'ACLR(-5MHz)' at -40.24 dB and 'ACLR(+5MHz)' at -42.79 dB. The 'Modulation Analysis' section shows 'EVM' at 5.15 % (rms). The 'Peak Code Domain Error' section shows 'PCDE' at -39.86 dB. The 'UE Power' is 23.4 dBm. The 'Band Cal' button is visible on the right. The 'Meas Setup' section on the left shows 'Uplink Downlink Configuration' set to '1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration' set to '4'.

<LTE TDD Power class 3>



Phone2 LTE 40.20S#021 Phone1 LTE 40.20S#021

UL Channel 40620 ch TPC Pattern All +3dB Input Level 30.0 dBm

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

TDD - Special Subframe Configuration TDDSSFCNF This is the parameter to select the special subframe configuration.

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

UE Power : 23.5 dBm

Measurement

Numeric

TX Power 23.19 dBm

Occupied Bandwidth

Spectrum Emission Mask

Main Screen

Fundamental

Sub Screen

Top

Adjacent Channel Power

In-Band Emission

Spectrum Flatness

EVM

Phase Error

Magnitude Error

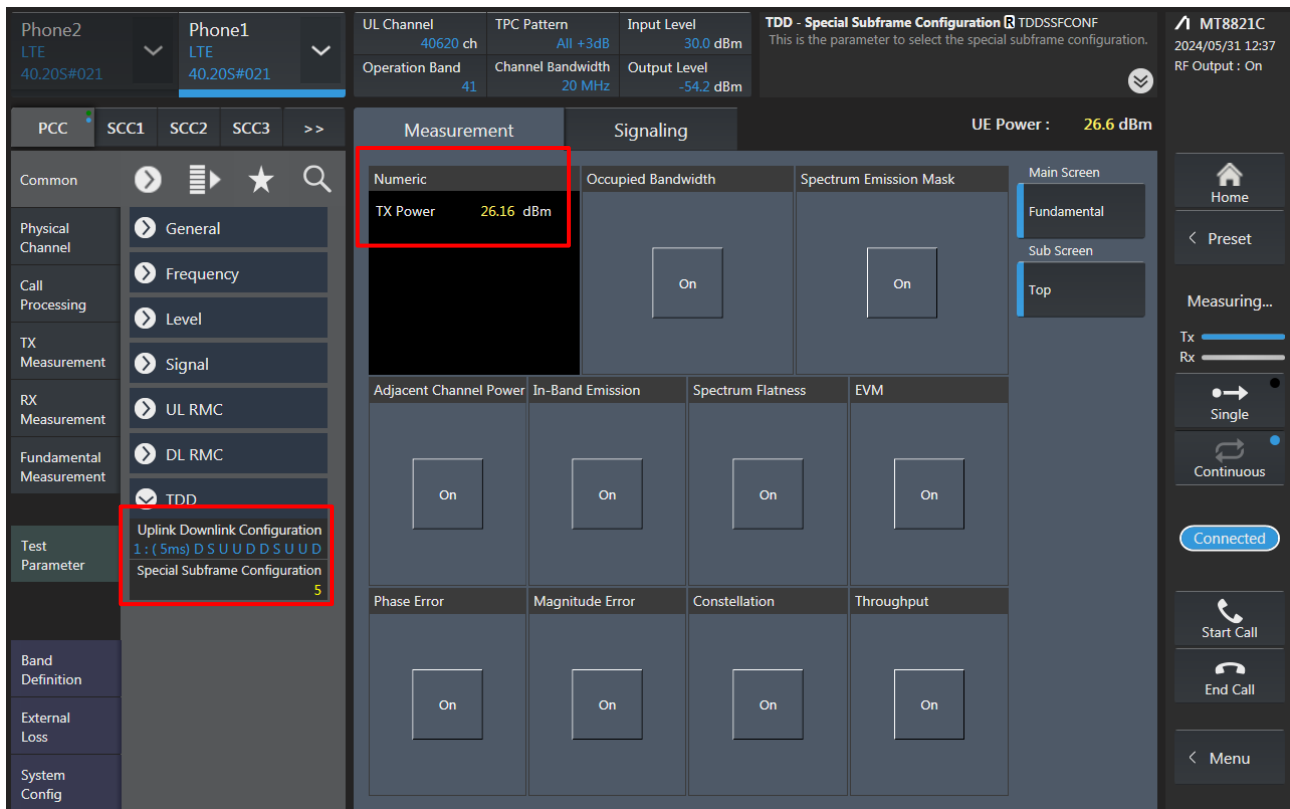
Constellation

Throughput

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

Special Subframe Configuration 5

<LTE TDD Power class 2>



Phone2 LTE 40.20S#021 Phone1 LTE 40.20S#021

UL Channel 40620 ch TPC Pattern All +3dB Input Level 30.0 dBm

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

TDD - Special Subframe Configuration TDDSSFCNF This is the parameter to select the special subframe configuration.

MT8821C 2024/05/31 12:37 RF Output : On

UE Power : 26.6 dBm

Measurement

Numeric

TX Power 26.16 dBm

Occupied Bandwidth

Spectrum Emission Mask

Main Screen

Fundamental

Sub Screen

Top

Adjacent Channel Power

In-Band Emission

Spectrum Flatness

EVM

Phase Error

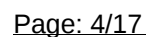
Magnitude Error

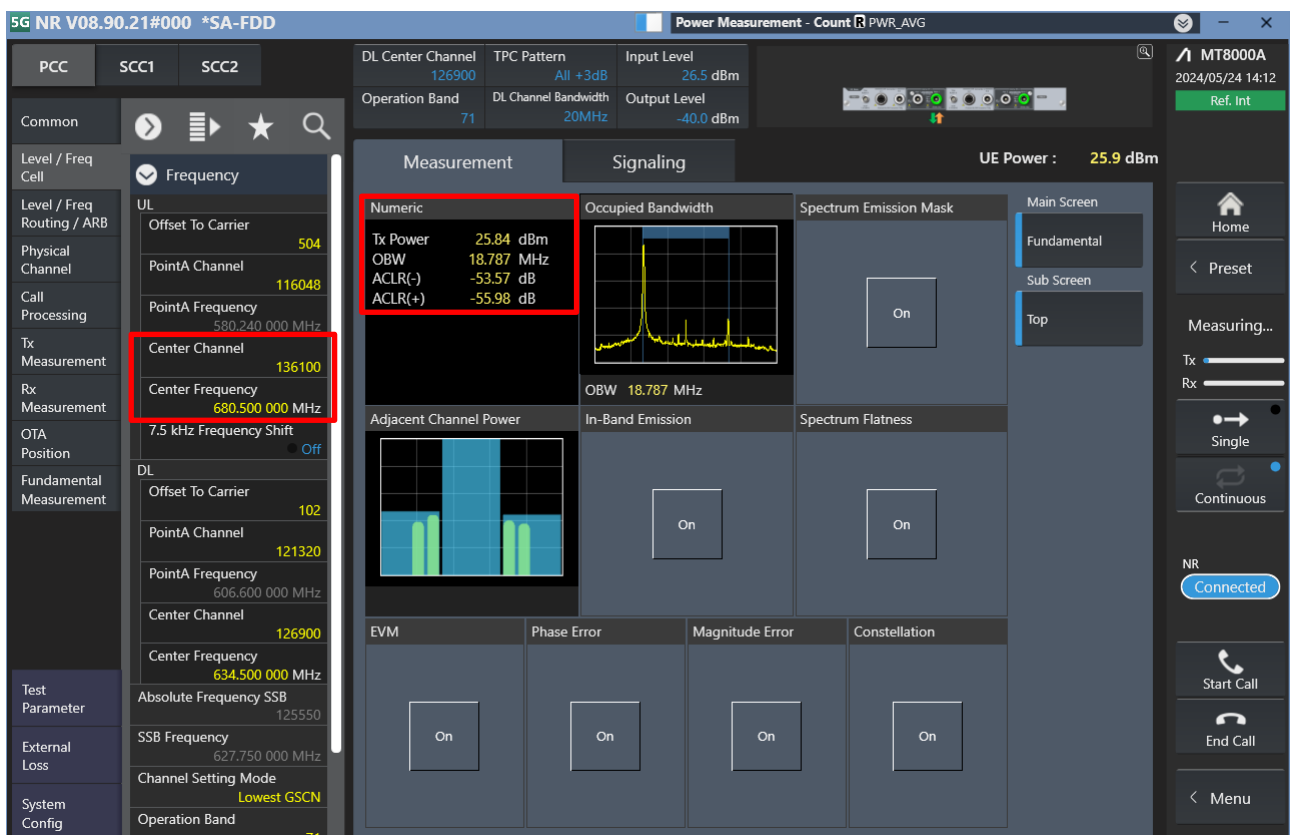
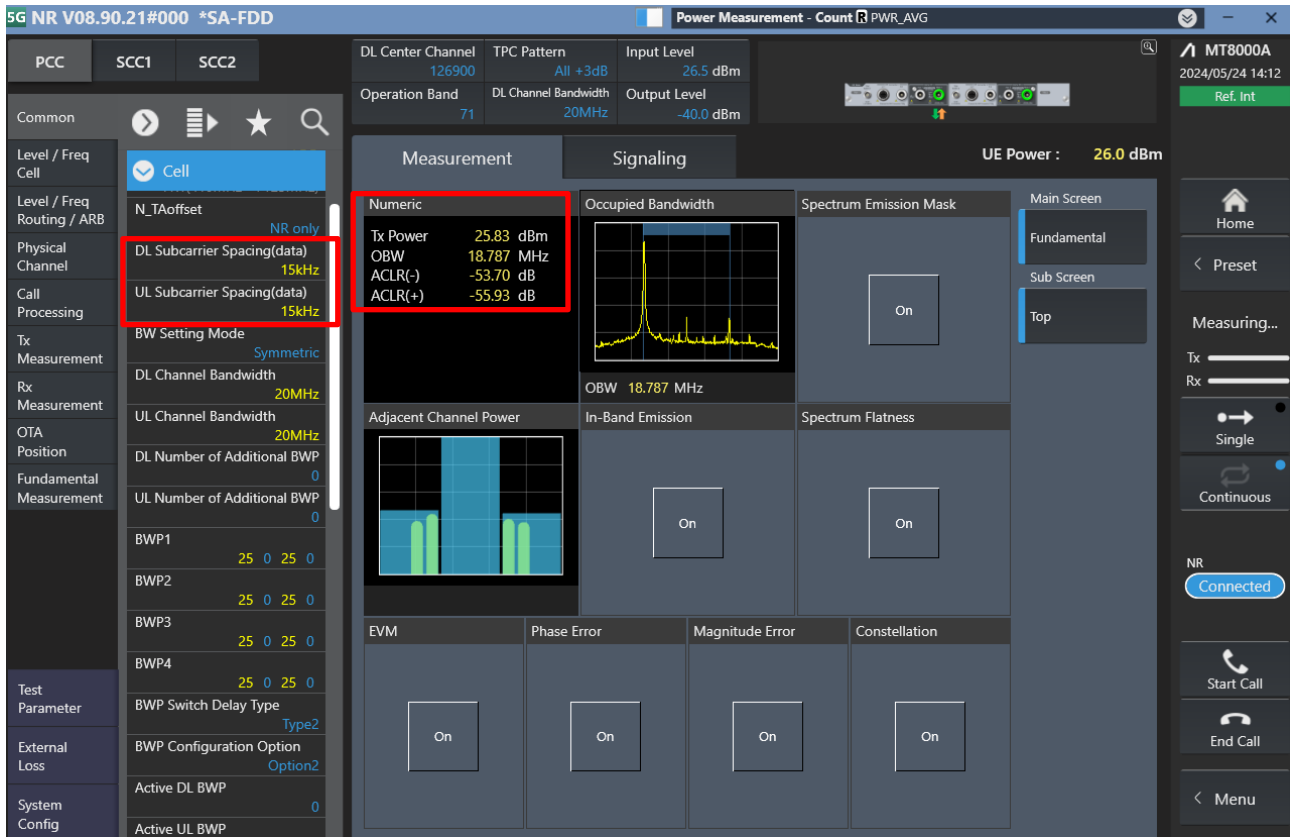
Constellation

Throughput

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

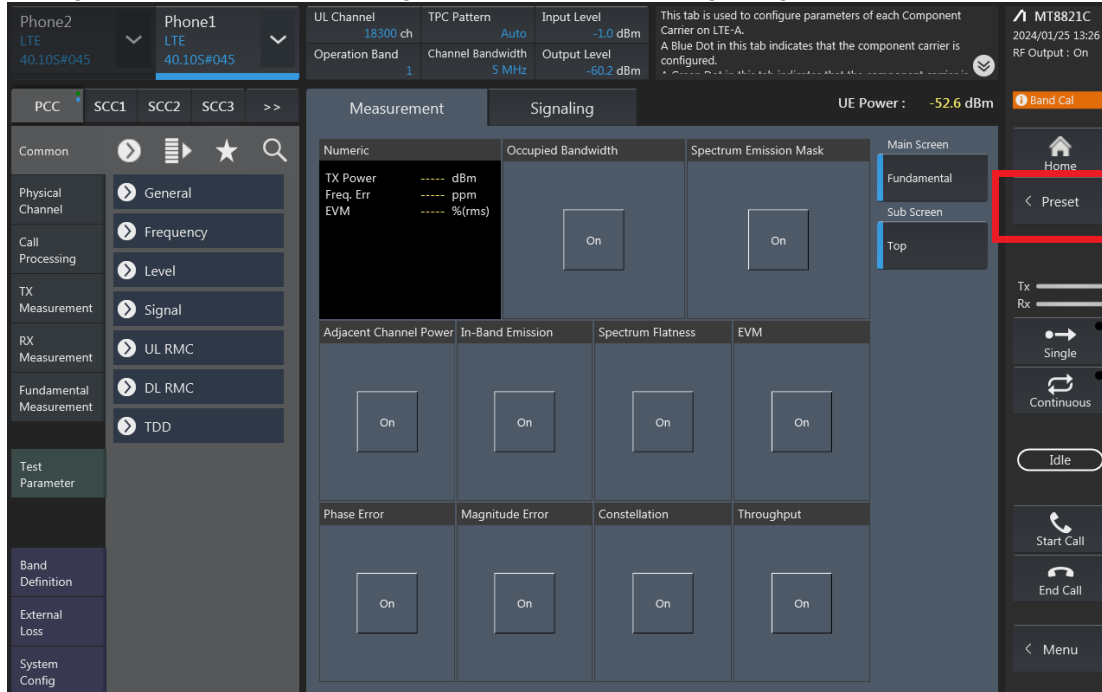
Special Subframe Configuration 5





LTE Uplink and Downlink Carrier Aggregation configurations:

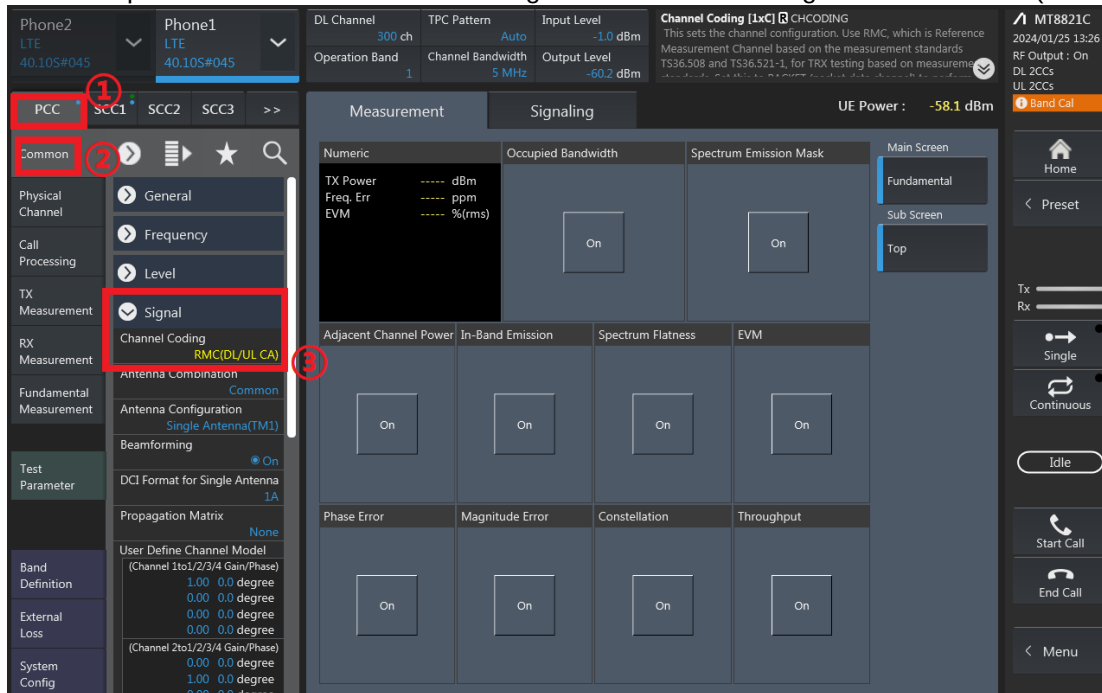
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



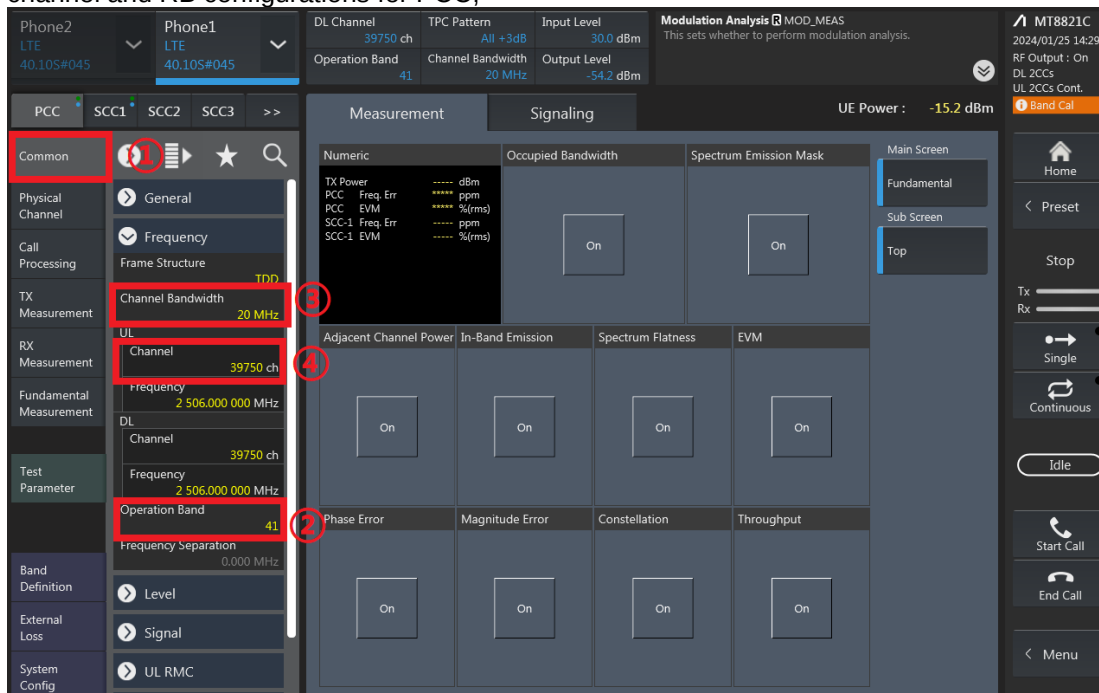
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

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;



Phone2 LTE 40.10S#045 Phone1 LTE 40.10S#045

DL Channel 39750 ch TPC Pattern All +3dB Input Level 30.0 dBm Modulation Analysis MOD_MEAS This sets whether to perform modulation analysis.

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

MT8821C 2024/01/25 14:29 RF Output : On DL 2CCs UL 2CCs Cont.

UE Power : -15.2 dBm

Measurement Signaling

Common

Physical Channel General

Call Processing Frequency

TX Measurement Channel Bandwidth 20 MHz

RX Measurement Channel 39750 ch

Fundamental Measurement Frequency 2 506.000 000 MHz

Test Parameter Channel 39750 ch Frequency 2 506.000 000 MHz Operation Band 41 Frequency Separation 0.000 MHz

Band Definition Level

External Loss Signal

System Config UL RMC

Numeric

TX Power PCC Freq. Err. dBm PPM PCC EVM % (rms) SCC-1 Freq. Err. PPM SCC-1 EVM % (rms)

Occupied Bandwidth

Spectrum Emission Mask

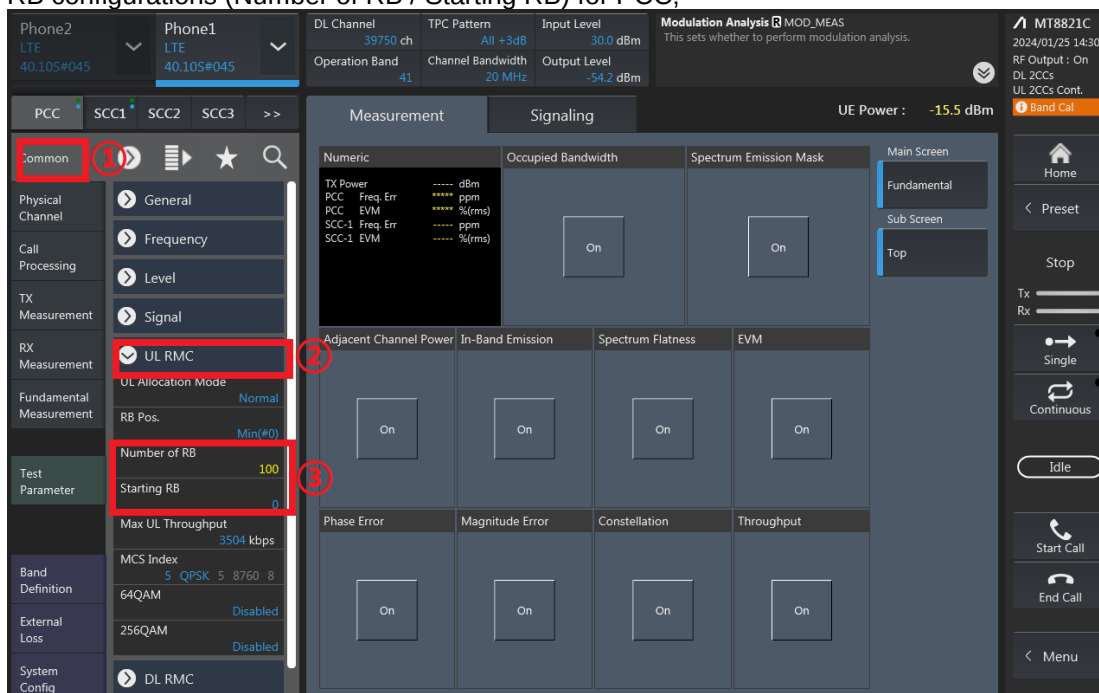
Main Screen Fundamental Sub Screen Top

Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

Phase Error Magnitude Error Constellation Throughput

Home Preset Stop Tx Rx Single Continuous Idle Start Call End Call Menu

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



Phone2 LTE 40.10S#045 Phone1 LTE 40.10S#045

DL Channel 39750 ch TPC Pattern All +3dB Input Level 30.0 dBm Modulation Analysis MOD_MEAS This sets whether to perform modulation analysis.

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

MT8821C 2024/01/25 14:30 RF Output : On DL 2CCs UL 2CCs Cont.

UE Power : -15.5 dBm

Measurement Signaling

Common

Physical Channel General

Call Processing Frequency

TX Measurement Level

RX Measurement Signal

Fundamental Measurement UL RMC

Test Parameter UL Allocation Mode Normal RB Pos. Min(#0) Number of RB 100 Starting RB 0 Max UL Throughput 3504 kbps MCS Index 5 QPSK 5 8760 8 64QAM 256QAM Disabled Disabled

Band Definition DL RMC

Numeric

TX Power PCC Freq. Err. dBm PPM PCC EVM % (rms) SCC-1 Freq. Err. PPM SCC-1 EVM % (rms)

Occupied Bandwidth

Spectrum Emission Mask

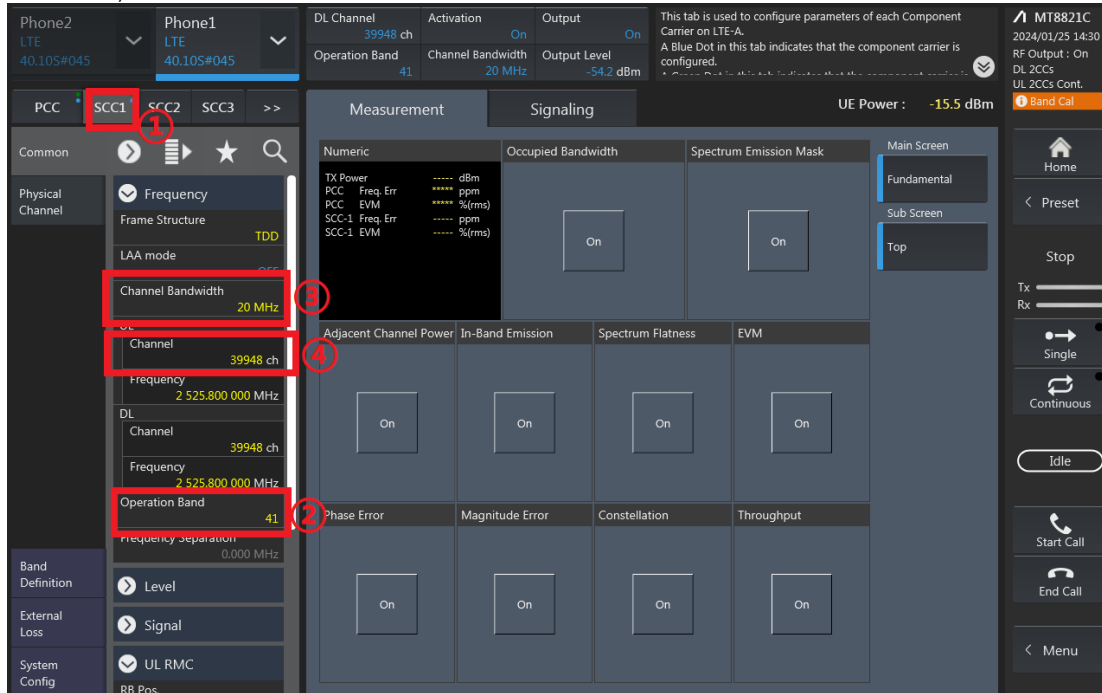
Main Screen Fundamental Sub Screen Top

Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

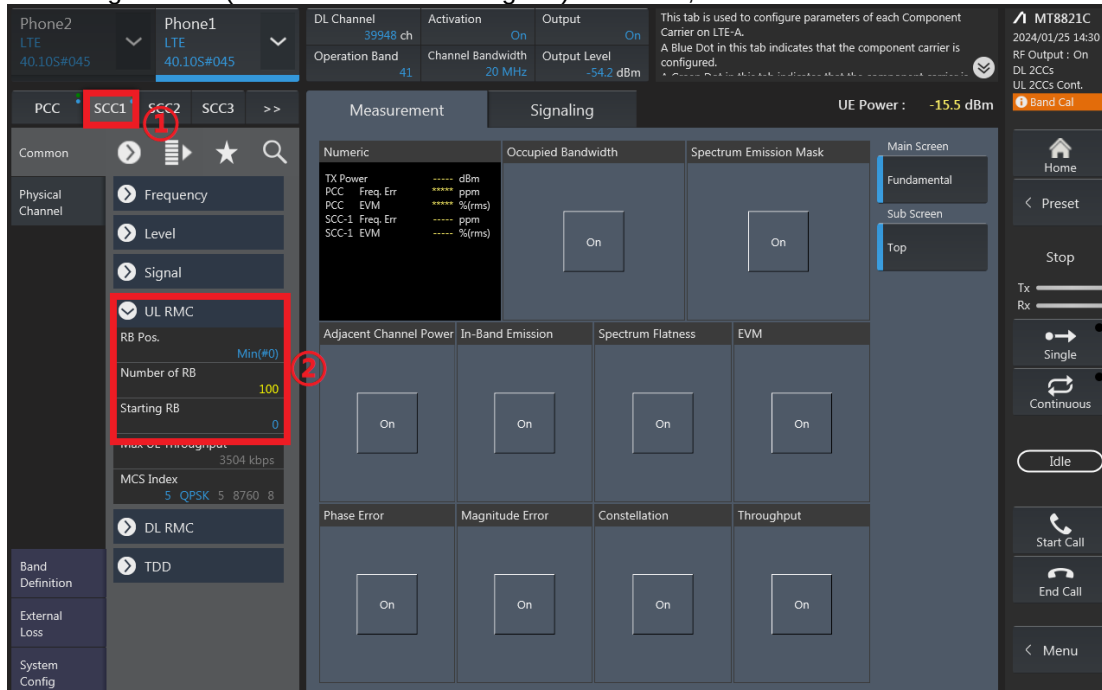
Phase Error Magnitude Error Constellation Throughput

Home Preset Stop Tx Rx Single Continuous Idle Start Call End Call Menu

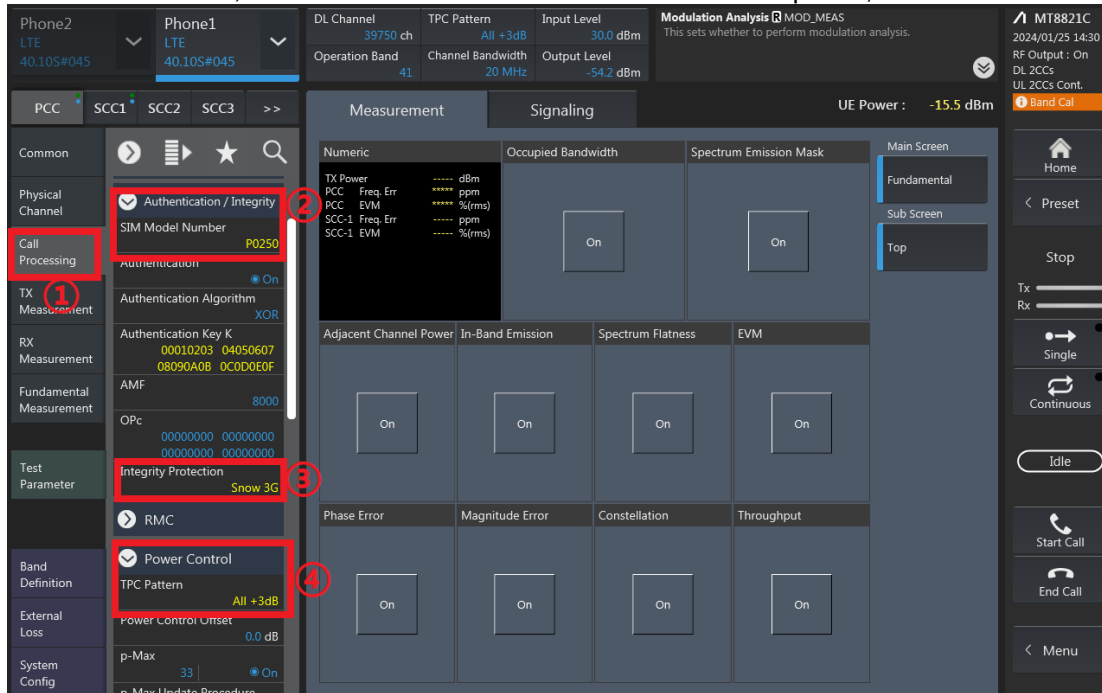
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



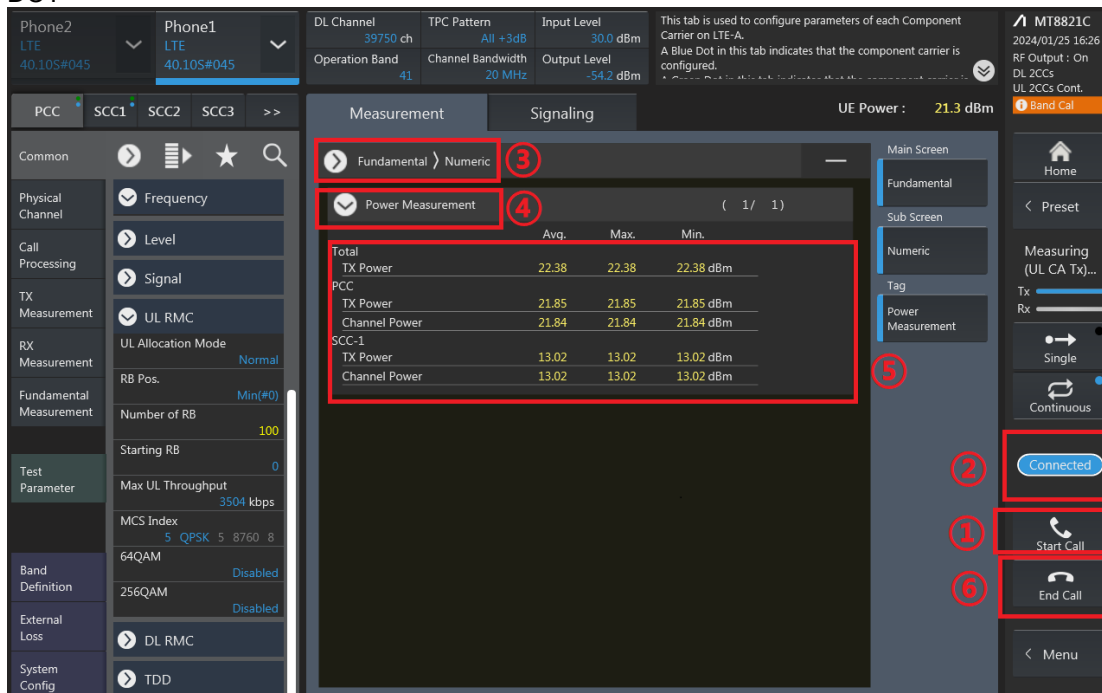
RB configurations (Number of RB / Starting RB) for SCC1;



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.

Uplink CA Power

CA_5B Ant0 Default&ECI2&ECI6							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20450	20549	QPSK	1	49	1	0	22.65
20476	20575	QPSK	1	49	1	0	22.71
20600	20501	QPSK	1	0	1	49	22.59
							Tune up Power (dBm)
							24.00

CA_5B Ant4 Default&ECI6							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20450	20549	QPSK	1	49	1	0	23.01
20476	20575	QPSK	1	49	1	0	23.05
20600	20501	QPSK	1	0	1	49	22.98
							Tune up Power (dBm)
							24.00

CA_41C Ant0 Default&ECI2&ECI3&ECI7&ECI6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	21.91
40185	40383	QPSK	1	99	1	0	21.77
40620	40818	QPSK	1	99	1	0	22.01
41055	41253	QPSK	1	99	1	0	21.88
41490	41292	QPSK	1	0	1	99	21.87
							Tune up Power (dBm)
							23.00

CA_41C Ant0 HPUE Default&ECI2&ECI3&ECI7&ECI6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	24.78
40185	40383	QPSK	1	99	1	0	24.66
40620	40818	QPSK	1	99	1	0	25.01
41055	41253	QPSK	1	99	1	0	24.81
41490	41292	QPSK	1	0	1	99	24.87
							Tune up Power (dBm)
							26.00

CA_41C Ant1 Default&ECI2							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	22.79
40185	40383	QPSK	1	99	1	0	22.88
40620	40818	QPSK	1	99	1	0	23.1
41055	41253	QPSK	1	99	1	0	23.02
41490	41292	QPSK	1	0	1	99	22.85
							Tune up Power (dBm)
							24.00

CA_41C Ant1 HPUE Default&ECI2							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	25.95
40185	40383	QPSK	1	99	1	0	26.02
40620	40818	QPSK	1	99	1	0	26.09
41055	41253	QPSK	1	99	1	0	26.03
41490	41292	QPSK	1	0	1	99	26.01
							Tune up Power (dBm)
							27.00

CA_41C Ant4 Default&ECI6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	18.89
40185	40383	QPSK	1	99	1	0	18.92
40620	40818	QPSK	1	99	1	0	19.08
41055	41253	QPSK	1	99	1	0	18.25
41490	41292	QPSK	1	0	1	99	18.11
							Tune up Power (dBm)
							20.00

CA_41C Ant4 HPUE Default&ECI6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	21.84
40185	40383	QPSK	1	99	1	0	21.79
40620	40818	QPSK	1	99	1	0	22.01
41055	41253	QPSK	1	99	1	0	21.05
41490	41292	QPSK	1	0	1	99	21.04
							Tune up Power (dBm)
							23.00

CA_41C Ant10 Default&ECI2&ECI6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	19.71
40185	40383	QPSK	1	99	1	0	19.82
40620	40818	QPSK	1	99	1	0	19.78
41055	41253	QPSK	1	99	1	0	19.62
41490	41292	QPSK	1	0	1	99	19.33
							Tune up Power (dBm)
							21.00

CA_41C Ant10 HPUE Default&ECI2&ECI6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	22.85
40185	40383	QPSK	1	99	1	0	22.81
40620	40818	QPSK	1	99	1	0	22.91
41055	41253	QPSK	1	99	1	0	22.73
41490	41292	QPSK	1	0	1	99	22.71
							Tune up Power (dBm)
							24.00

CA_48B Ant3 Default								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55290	55389	QPSK	1	74	1	0	19.11	20.00
55815	55914	QPSK	1	74	1	0	18.96	20.00
56165	56264	QPSK	1	74	1	0	18.91	20.00
56690	56591	QPSK	1	0	1	74	18.77	20.00

CA_48C Ant3 Default								
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	18.93	20.00
55830	56028	QPSK	1	99	1	0	19.12	20.00
56150	56348	QPSK	1	99	1	0	18.88	20.00
56640	56442	QPSK	1	0	1	99	18.81	20.00

Uplink CA Power

CA_5B Ant4 ECI2								
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	19.46	20.60
20476	20575	QPSK	1	49	1	0	19.59	20.60
20600	20501	QPSK	1	0	1	49	19.43	20.60

CA_5B Ant0 ECI3								
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	22.15	23.20
20476	20575	QPSK	1	49	1	0	22.24	23.20
20600	20501	QPSK	1	0	1	49	22.19	23.20

CA_5B Ant4 ECI3								
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	19.44	20.60
20476	20575	QPSK	1	49	1	0	19.51	20.60
20600	20501	QPSK	1	0	1	49	19.36	20.60

CA_41C Ant1 ECI3								
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	22.32	23.20
40185	40383	QPSK	1	99	1	0	22.41	23.20
40620	40818	QPSK	1	99	1	0	22.52	23.20
41055	41253	QPSK	1	99	1	0	22.35	23.20
41490	41292	QPSK	1	0	1	99	22.29	23.20

CA_41C Ant1 HPUE ECI3								
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	23.62	24.80
40185	40383	QPSK	1	99	1	0	22.59	24.80
40620	40818	QPSK	1	99	1	0	22.74	24.80
41055	41253	QPSK	1	99	1	0	22.54	24.80
41490	41292	QPSK	1	0	1	99	22.49	24.80

CA_41C Ant4 ECI2								
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	18.21	19.10
40185	40383	QPSK	1	99	1	0	18.27	19.10
40620	40818	QPSK	1	99	1	0	18.31	19.10
41055	41253	QPSK	1	99	1	0	18.18	19.10
41490	41292	QPSK	1	0	1	99	18.07	19.10

CA_41C Ant4 ECI3								
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	18.21	19.10
40185	40383	QPSK	1	99	1	0	18.27	19.10
40620	40818	QPSK	1	99	1	0	18.31	19.10
41055	41253	QPSK	1	99	1	0	18.18	19.10
41490	41292	QPSK	1	0	1	99	18.07	19.10

CA_41C Ant4 HPUE ECI2								
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	19.9	20.70
40185	40383	QPSK	1	99	1	0	19.88	20.70
40620	40818	QPSK	1	99	1	0	20	20.70
41055	41253	QPSK	1	99	1	0	19.98	20.70
41490	41292	QPSK	1	0	1	99	19.96	20.70

CA_41C Ant4 HPUE ECI3								
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	19.9	20.70
40185	40383	QPSK	1	99	1	0	19.88	20.70
40620	40818	QPSK	1	99	1	0	20	20.70
41055	41253	QPSK	1	99	1	0	19.98	20.70
41490	41292	QPSK	1	0	1	99	19.96	20.70

CA_41C Ant10 ECI3								
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	18.71	19.90
40185	40383	QPSK	1	99	1	0	18.97	19.90
40620	40818	QPSK	1	99	1	0	19.10	19.90
41055	41253	QPSK	1	99	1	0	18.79	19.90
41490	41292	QPSK	1	0	1	99	18.60	19.90

CA_41C Ant10 HPUE ECI3								
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	20.66	21.50
40185	40383	QPSK	1	99	1	0	20.65	21.50
40620	40818	QPSK	1	99	1	0	20.63	21.50
41055	41253	QPSK	1	99	1	0	20.37	21.50
41490	41292	QPSK	1	0	1	99	20.27	21.50

CA_48B Ant3 ECI2								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55290	55389	QPSK	1	74	1	0	16.16	17.40
55815	55914	QPSK	1	74	1	0	16.07	17.40
56165	56264	QPSK	1	74	1	0	15.97	17.40
56690	56591	QPSK	1	0	1	74	15.69	17.40

CA_48B Ant3 ECI3								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55290	55389	QPSK	1	74	1	0	10.86	12.30
55815	55914	QPSK	1	74	1	0	11.11	12.30
56165	56264	QPSK	1	74	1	0	10.82	12.30
56690	56591	QPSK	1	0	1	74	10.88	12.30

CA_48C Ant3 ECI2								
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	15.92	17.40
55830	56028	QPSK	1	99	1	0	16.03	17.40
56150	56348	QPSK	1	99	1	0	15.94	17.40
56640	56442	QPSK	1	0	1	99	15.89	17.40

CA_48C Ant3 ECI3								
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	10.94	12.30
55830	56028	QPSK	1	99	1	0	11.15	12.30
56150	56348	QPSK	1	99	1	0	11.03	12.30
56640	56442	QPSK	1	0	1	99	10.96	12.30



CA_5B Ant0 ECI7								
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	22.15	23.20
20476	20575	QPSK	1	49	1	0	22.24	23.20
20600	20501	QPSK	1	0	1	49	22.19	23.20

CA_5B Ant4 ECI7								
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	17.95	19.10
20476	20575	QPSK	1	49	1	0	18.11	19.10
20600	20501	QPSK	1	0	1	49	18.05	19.10

CA_41C Ant1 ECI7								
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	20.88	21.90
40185	40383	QPSK	1	99	1	0	20.94	21.90
40620	40818	QPSK	1	99	1	0	21.01	21.90
41055	41253	QPSK	1	99	1	0	20.85	21.90
41490	41292	QPSK	1	0	1	99	20.71	21.90

CA_41C Ant1 HPUE ECI7								
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	22.11	23.50
40185	40383	QPSK	1	99	1	0	22.15	23.50
40620	40818	QPSK	1	99	1	0	22.21	23.50
41055	41253	QPSK	1	99	1	0	22.16	23.50
41490	41292	QPSK	1	0	1	99	22.06	23.50

CA_41C Ant4 ECI7								
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	12.15	13.20
40185	40383	QPSK	1	99	1	0	12.18	13.20
40620	40818	QPSK	1	99	1	0	12.27	13.20
41055	41253	QPSK	1	99	1	0	12.2	13.20
41490	41292	QPSK	1	0	1	99	12.24	13.20

CA_41C Ant4 HPUE ECI7								
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	13.8	14.80
40185	40383	QPSK	1	99	1	0	13.63	14.80
40620	40818	QPSK	1	99	1	0	13.86	14.80
41055	41253	QPSK	1	99	1	0	13.77	14.80
41490	41292	QPSK	1	0	1	99	13.84	14.80

CA_41C Ant10 ECI7								
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	17.51	18.50
40185	40383	QPSK	1	99	1	0	17.60	18.50
40620	40818	QPSK	1	99	1	0	17.69	18.50
41055	41253	QPSK	1	99	1	0	17.51	18.50
41490	41292	QPSK	1	0	1	99	17.38	18.50

CA_41C Ant10 HPUE ECI7								
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	19.03	20.10
40185	40383	QPSK	1	99	1	0	19.14	20.10
40620	40818	QPSK	1	99	1	0	19.29	20.10
41055	41253	QPSK	1	99	1	0	19.06	20.10
41490	41292	QPSK	1	0	1	99	19.15	20.10

CA_48B Ant3 ECI7								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55290	55389	QPSK	1	74	1	0	9.04	10.10
55815	55914	QPSK	1	74	1	0	9.04	10.10
56165	56264	QPSK	1	74	1	0	9.17	10.10
56690	56591	QPSK	1	0	1	74	8.67	10.10

CA_48C Ant3 ECI7								
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	9.11	10.10
55830	56028	QPSK	1	99	1	0	9.19	10.10
56150	56348	QPSK	1	99	1	0	9.19	10.10
56640	56442	QPSK	1	0	1	99	8.8	10.10

CA_41C Ant1 ECI6								
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	22.32	23.20
40185	40383	QPSK	1	99	1	0	22.41	23.20
40620	40818	QPSK	1	99	1	0	22.52	23.20
41055	41253	QPSK	1	99	1	0	22.35	23.20
41490	41292	QPSK	1	0	1	99	22.29	23.20

CA_41C Ant1 HPUE ECI6								
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	23.76	24.80
40185	40383	QPSK	1	99	1	0	23.49	24.80
40620	40818	QPSK	1	99	1	0	23.79	24.80
41055	41253	QPSK	1	99	1	0	23.62	24.80
41490	41292	QPSK	1	0	1	99	23.56	24.80

CA_48B Ant3 ECI6								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55290	55389	QPSK	1	74	1	0	14.44	15.80
55815	55914	QPSK	1	74	1	0	14.21	15.80
56165	56264	QPSK	1	74	1	0	14.44	15.80
56690	56591	QPSK	1	0	1	74	14.06	15.80

CA_48C Ant3 ECI6								
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	14.51	15.80
55830	56028	QPSK	1	99	1	0	14.39	15.80
56150	56348	QPSK	1	99	1	0	14.62	15.80
56640	56442	QPSK	1	0	1	99	14.25	15.80

2CA DL

CA List	PCC								SCC					Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL RB Offset	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel					Band	(MHz)	Freq.	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-2A	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	23.01	23.13
	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	20.93	21.15
CA_2A-4A	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.01	23.13
	Band 2	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	20.93	21.15
	Band 4	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.09	23.25
	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.11	21.20
CA_2A-5A	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		23.01	23.13
	Band 2	Ant 4	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		20.93	21.15
	Band 5	Ant 0	20M	1880	18900	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	22.87	22.96
	Band 5	Ant 4	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	23.04	23.18
CA_2A-7A	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	23.01	23.13
	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	20.93	21.15
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.11	23.19
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095		23.01	23.13
CA_2A-12A	Band 2	Ant 4	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095		20.93	21.15
	Band 12	Ant 0	20M	1880	18900	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	22.81	22.99
	Band 12	Ant 4	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	23.13	23.21
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		23.01	23.13
CA_2A-13A	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		20.93	21.15
	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	22.88	22.92
	Band 13	Ant 4	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	22.91	23.11
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 14	10M	763	5330		23.01	23.13
CA_2A-14A	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 14	10M	763	5330		20.93	21.15
	Band 14	Ant 0	10M	793	23330	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	22.86	23.03
	Band 14	Ant 4	10M	793	23330	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	23.04	23.26
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 17	10M	740	5790		23.01	23.13
CA_2A-17A	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 17	10M	740	5790		20.93	21.15
	Band 17	Ant 0	10M	710	23790	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	22.80	22.99
	Band 17	Ant 4	10M	710	23790	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	23.09	23.21
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 29	10M	722.5	9715		23.01	23.13
CA_2A-29A	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 29	10M	722.5	9715		20.93	21.15
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	23.01	23.13
CA_2A-30A	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	20.93	21.15
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.09	23.20
CA_2A-66A	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	23.01	23.13
	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	20.93	21.15
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.11	23.29
	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.20	21.25
CA_2A-71A	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 71	20M	683	68786		23.01	23.13
	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 71	20M	683	68786		20.93	21.15
	Band 71	Ant 0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	23.01	23.09
	Band 71	Ant 4	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	23.13	23.19
CA_2A-48A	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	23.01	23.13
	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	20.93	21.15
	Band 48	Ant 3	20M	3609	55830	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.83	23.05
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	23.01	23.13
CA_2C	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	20.93	21.15
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	23.09	23.25
CA_4A-4A	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	21.11	21.20
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		23.09	23.25
CA_4A-5A	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		21.11	21.20
	Band 4	Ant 0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	22.87	22.96
	Band 5	Ant 4	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	23.04	23.18
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	23.09	23.25
CA_4A-7A	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	21.11	21.20
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.11	23.19
CA_4A-12A	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095		23.09	23.25
	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095		21.11	21.20
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	22.81	22.99
	Band 12	Ant 4	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	23.13	23.21
CA_4A-13A	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		23.09	23.25
	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		21.11	21.20
	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	22.88	22.92
	Band 13	Ant 4	10M	782	23230	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	22.91	23.11
CA_4A-17A	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 17	10M	740	5790		23.09	23.25
	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 17	10M	740	5790		21.11	21.20
	Band 17	Ant 0	10M	710	23790	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	22.80	22.99
	Band 17	Ant 4	10M	710	23790	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	23.09	23.21
CA_4A-29A	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 29	10M	722.5	9715		23.09	23.25
	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 29	10M	722.5	9715		21.11	21.20
CA_4A-30A	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	23.09	23.25
	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	21.11	21.20
CA_4A-48A	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.09	23.20
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	23.09	23.25
CA_4A-71A	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	21.11	21.20
	Band 48	Ant 3	20M	3609	55830	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.83	23.05
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 71	20M	683	68786		23.09	23.25
	Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 71	20M	683	68786		21.11	21.20
CA_5A-7A	Band 71	Ant 0	20M	683	133322	QPSK	1									

CA_7A-12A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.11	23.19
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.81	22.99
	Band 12	Ant 4	10M	707.5	23095	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.13	23.21
CA_7A-13A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		23.11	23.19
	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.88	22.92
	Band 13	Ant 4	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.91	23.11
CA_7A-25A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	23.11	23.19
	Band 25	Ant 1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.94	23.15
	Band 25	Ant 4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.11	21.23
CA_7A-29A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		23.11	23.19
CA_7A-30A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.11	23.19
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.09	23.20
CA_7A-66A	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.11	23.19
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.11	23.29
CA_7B	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.20	21.25
	Band 7	Ant 1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544.3	3193	4x4MIMO	23.11	23.19
CA_7C	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.11	23.19
CA_12A-30A	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	22.81	22.99
	Band 12	Ant 4	10M	707.5	23095	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	23.13	23.21
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.09	23.20
CA_12A-66A	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.81	22.99
	Band 12	Ant 4	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.13	23.21
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.11	23.29
CA_12B	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		21.20	21.25
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		22.81	22.99
	Band 12	Ant 4	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		23.13	23.21
CA_12A-48A	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	22.81	22.99
	Band 12	Ant 4	10M	707.5	23095	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	23.13	23.21
	Band 48	Ant 3	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 12	10M	707.5	23095		22.83	23.05
CA_13A-48A	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	22.88	22.92
	Band 13	Ant 4	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	22.91	23.11
	Band 48	Ant 3	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		22.83	23.05
CA_13A-66A	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.88	22.92
	Band 13	Ant 4	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.91	23.11
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		23.11	23.29
CA_14A-30A	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		21.20	21.25
	Band 14	Ant 0	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	22.86	23.03
	Band 14	Ant 4	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	23.04	23.26
CA_14A-66A	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		23.09	23.20
	Band 14	Ant 0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.86	23.03
	Band 14	Ant 4	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.04	23.26
CA_25A-25A	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		23.11	23.29
	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		21.20	21.25
	Band 25	Ant 1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	5M	1891.7	8457	4x4MIMO	22.94	23.15
CA_25A-26A	Band 25	Ant 4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	5M	1891.7	8457	4x4MIMO	21.11	21.23
	Band 25	Ant 1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.94	23.15
	Band 25	Ant 4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		21.11	21.23
CA_25A-66A	Band 26	Ant 0	15M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	22.98	23.06
	Band 26	Ant 4	15M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	23.20	23.33
	Band 25	Ant 1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.94	23.15
CA_25A-41A	Band 25	Ant 4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.11	21.23
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	23.11	23.29
	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	21.20	21.25
CA_25A-41A	Band 25	Ant 1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.94	23.15
	Band 25	Ant 4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	21.11	21.23
	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	24.93	25.11
CA_26A-41A	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	26.01	26.14
	Band 41	Ant 4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	21.89	22.05
	Band 41	Ant 10	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	22.88	23.02
CA_29A-30A	Band 26	Ant 0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.98	23.06
	Band 26	Ant 4	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	23.20	23.33
	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		23.09	23.20
CA_30A-66A	Band 30	Ant 1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.09	23.20
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.11	23.29
	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	21.20	21.25
CA_25A-66A	Band 25	Ant 1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.94	23.15
	Band 25	Ant 4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.11	21.23
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	23.11	23.29
CA_41A-41A	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	21.20	21.25
	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	24.93	25.11
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	26.01	26.14
CA_41A-41A	Band 41	Ant 4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	21.89	22.05
	Band 41	Ant 10	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	22.88	23.02
	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	22.88	23.02
CA_41A-48A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.93	25.11
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	26.01	26.14
	Band 41	Ant 4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 48	20M	3				