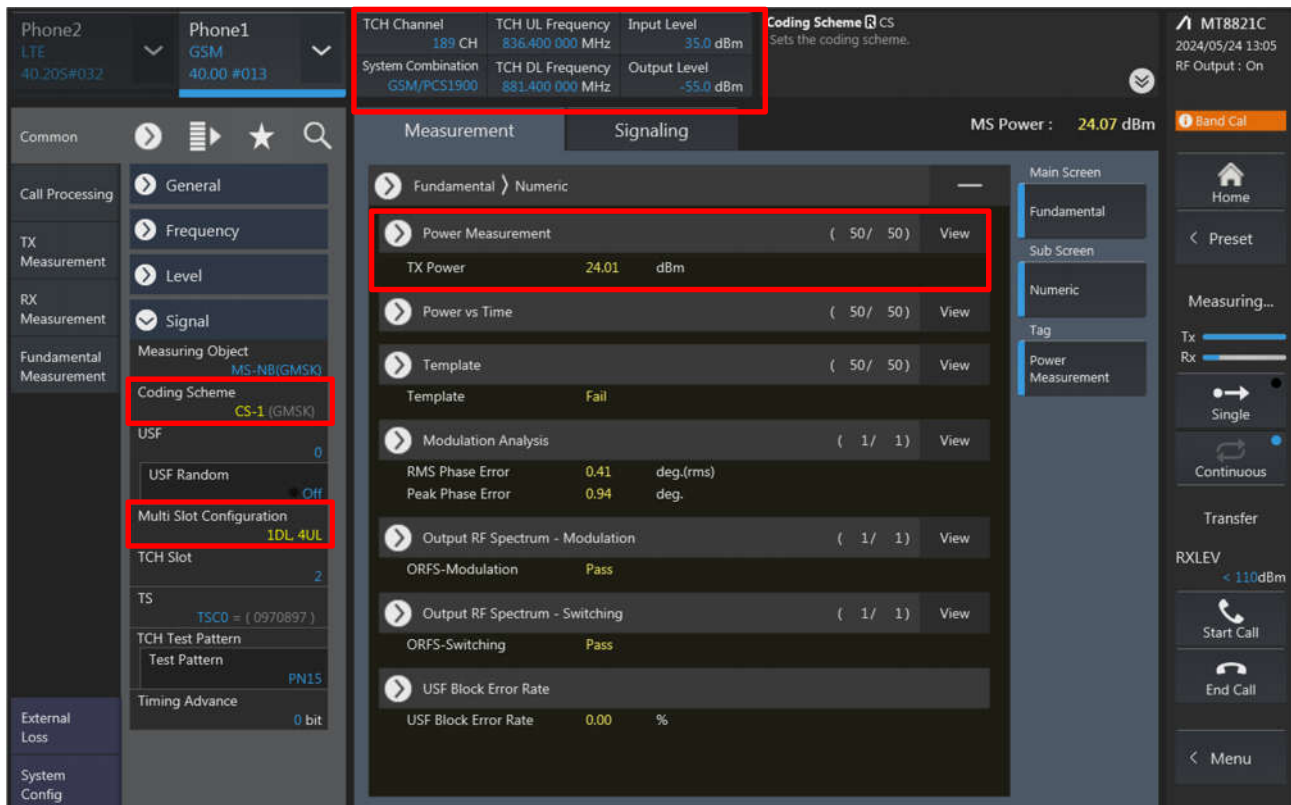


Power measurement connection diagram:

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.

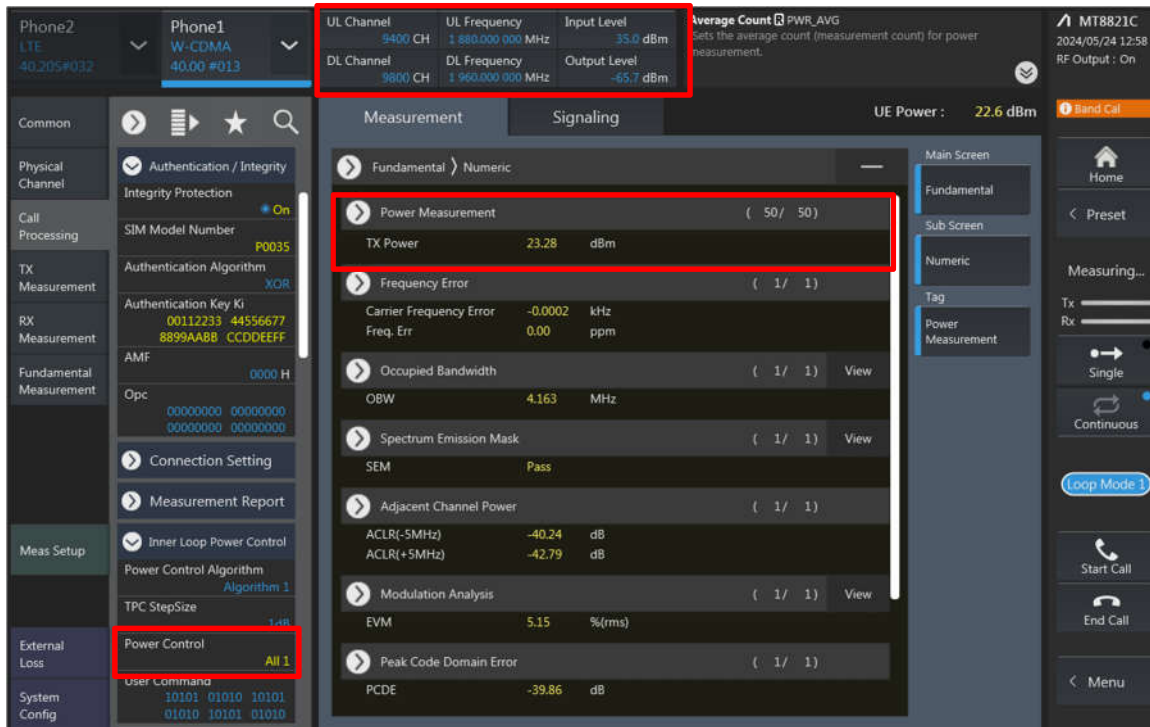
<GSM>



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

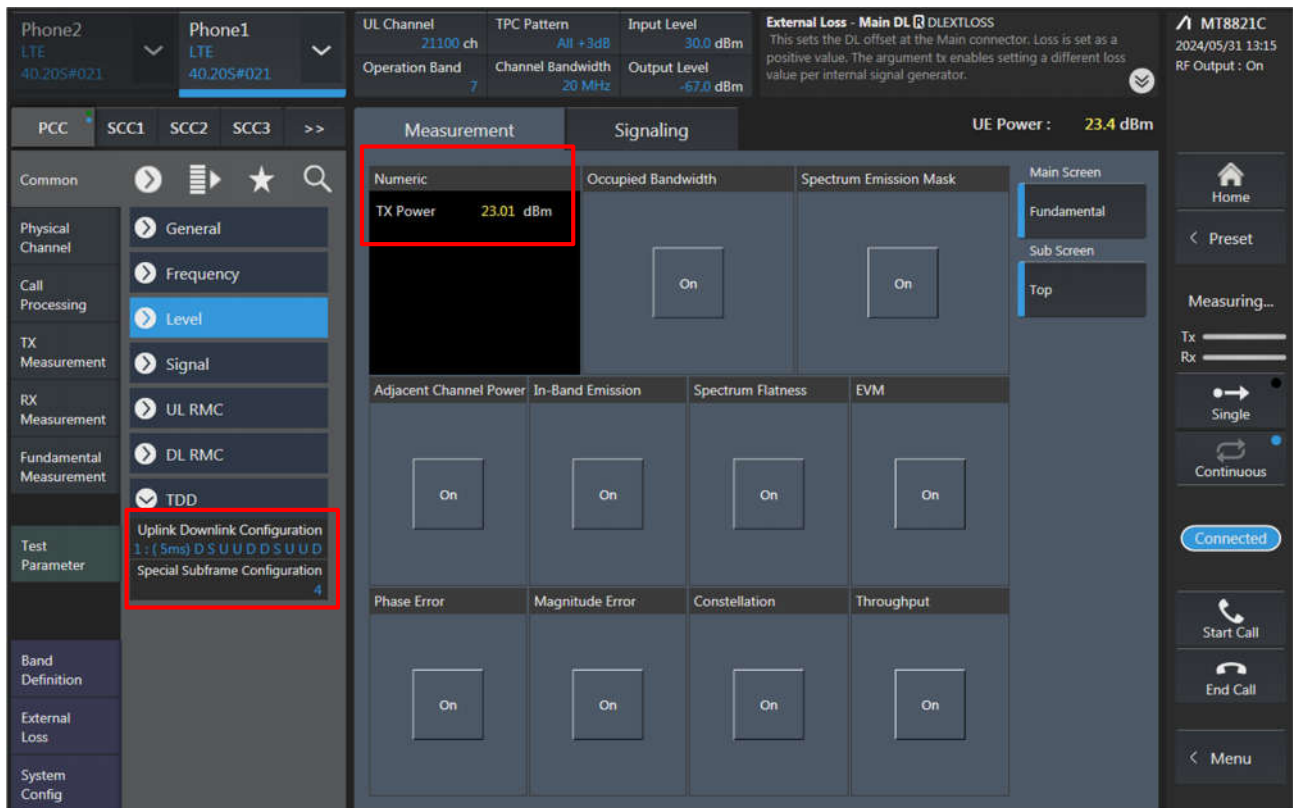
- Top Bar:** Shows Phone2 (LTE 40.205#032) and Phone1 (GSM 40.00 #013). The TCH Channel is 189 CH, TCH UL Frequency is 836.400 000 MHz, Input Level is 35.0 dBm, TCH DL Frequency is 881.400 000 MHz, and Output Level is -55.0 dBm. The Coding Scheme is CS.
- Left Panel:** Contains navigation options like 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 Panel:** Displays measurement results under the 'Measurement' tab. The 'Power Measurement' section shows TX Power as 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 Panel:** Shows the 'Main Screen' with 'Fundamental' and 'Sub Screen' options. The 'Tag' section shows 'Power Measurement'. The 'Transfer' section shows 'RXLEV' as < 110dBm. The 'Start Call' and 'End Call' buttons are visible.

<WCDMA>



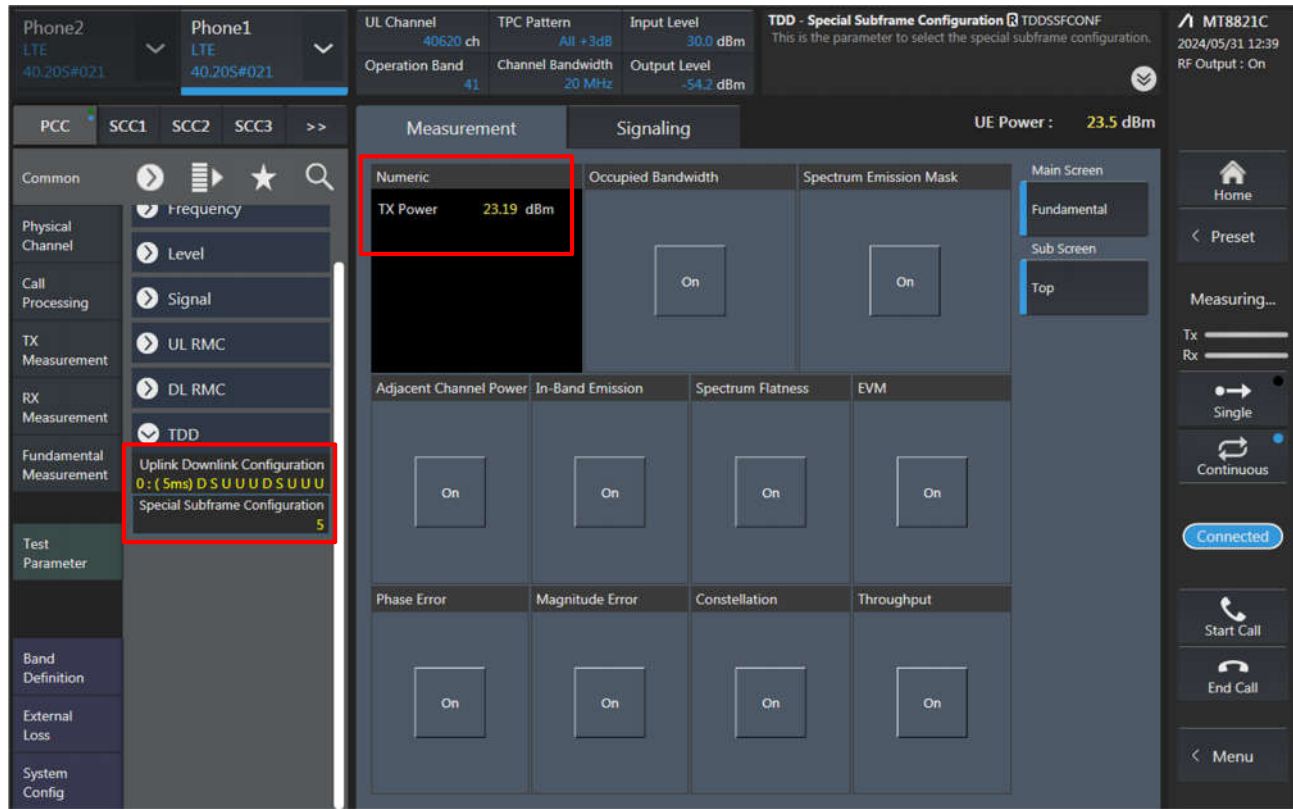
The screenshot shows the WCDMA measurement interface. The top bar displays 'Phone2 LTE 40.205#032' and 'Phone1 W-CDMA 40.00 #013'. The 'Measurement' tab is active, showing various parameters. A red box highlights the 'UL Channel' (9400 CH), 'UL Frequency' (1 880.000 000 MHz), 'Input Level' (35.0 dBm), '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 'Meas Setup' section shows 'Power Control' (All 1) and 'User Command' (10101 01010 10101 01010 10101 01010). The 'UE Power' is 22.6 dBm.

<LTE>



The screenshot shows the LTE measurement interface. The top bar displays 'Phone2 LTE 40.205#021' and 'Phone1 LTE 40.205#021'. The 'Measurement' tab is active, showing various parameters. A red box highlights the 'TX Power' (23.01 dBm). The 'Occupied Bandwidth' and 'Spectrum Emission Mask' sections show 'On' buttons. The 'Adjacent Channel Power', 'In-Band Emission', 'Spectrum Flatness', and 'EVM' sections show 'On' buttons. The 'Phase Error', 'Magnitude Error', 'Constellation', and 'Throughput' sections show 'On' buttons. The 'Test Parameter' section shows 'Uplink Downlink Configuration 1: (5ms) D S U U D D S U U D' and 'Special Subframe Configuration 4'. The 'UE Power' is 23.4 dBm.

<LTE TDD Power class 3>



Phone2
LTE
40.20S#021

Phone1
LTE
40.20S#021

UL Channel
40620 ch

TPC Pattern
All +3dB

Input Level
30.0 dBm

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

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

PCC SCC1 SCC2 SCC3 >>

Common

Physical Channel

Call Processing

TX Measurement

RX Measurement

Fundamental Measurement

Test Parameter

Band Definition

External Loss

System Config

Frequency

Level

Signal

UL RMC

DL RMC

TDD

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

Special Subframe Configuration
5

Measurement

Signaling

UE Power : 23.5 dBm

Numeric

TX Power 23.19 dBm

Occupied Bandwidth

Spectrum Emission Mask

Main Screen

Fundamental

Sub Screen

Top

Adjacent Channel Power

In-Band Emission

Spectrum Flatness

EVM

Phase Error

Magnitude Error

Constellation

Throughput

Home

Preset

Measuring...

Tx

Rx

Single

Continuous

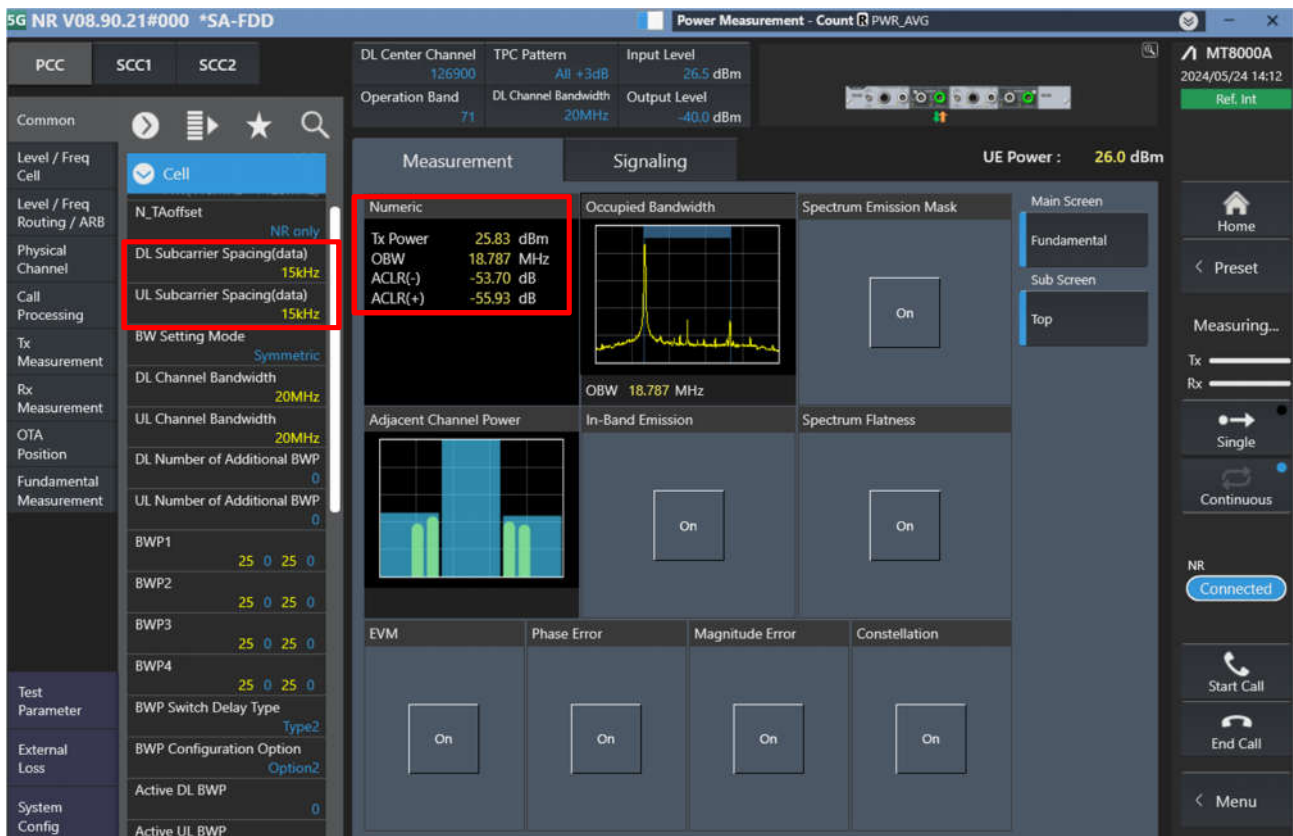
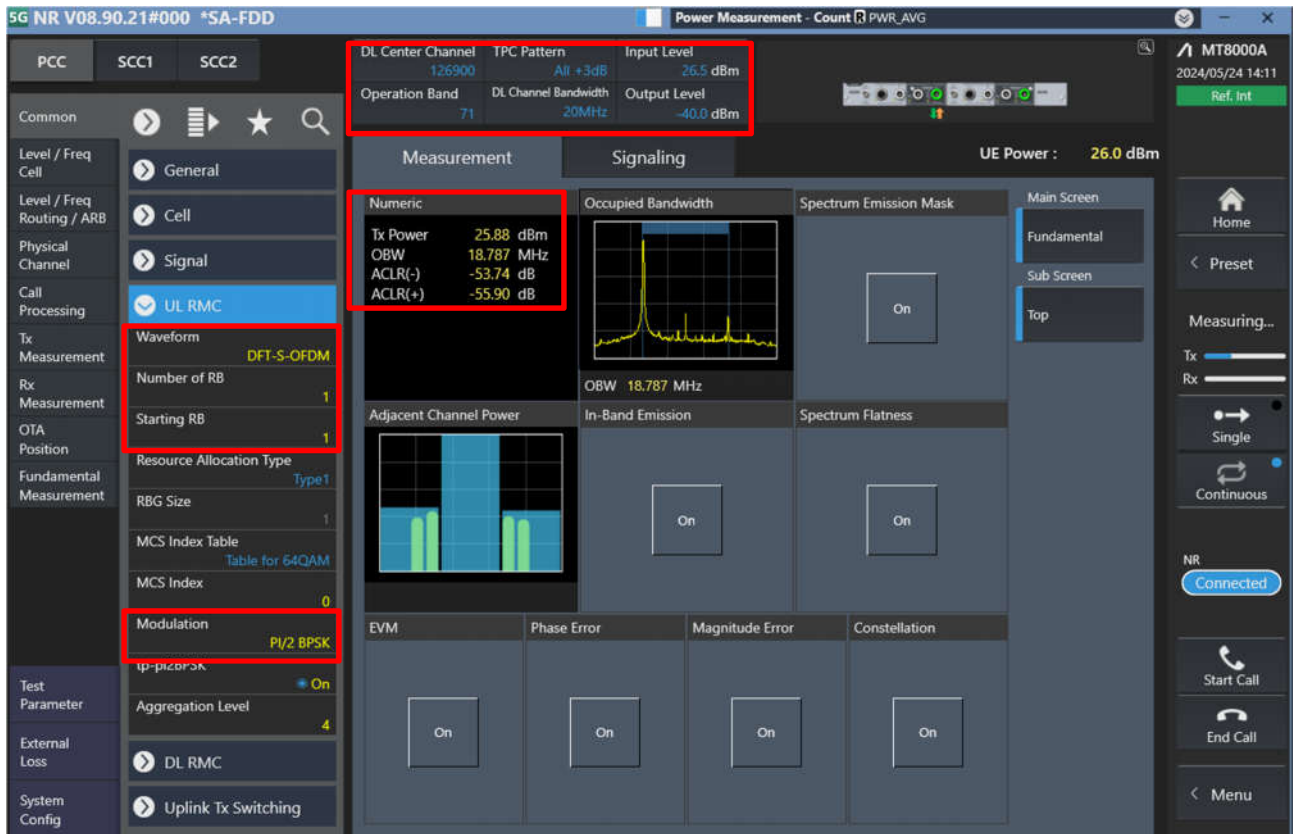
Connected

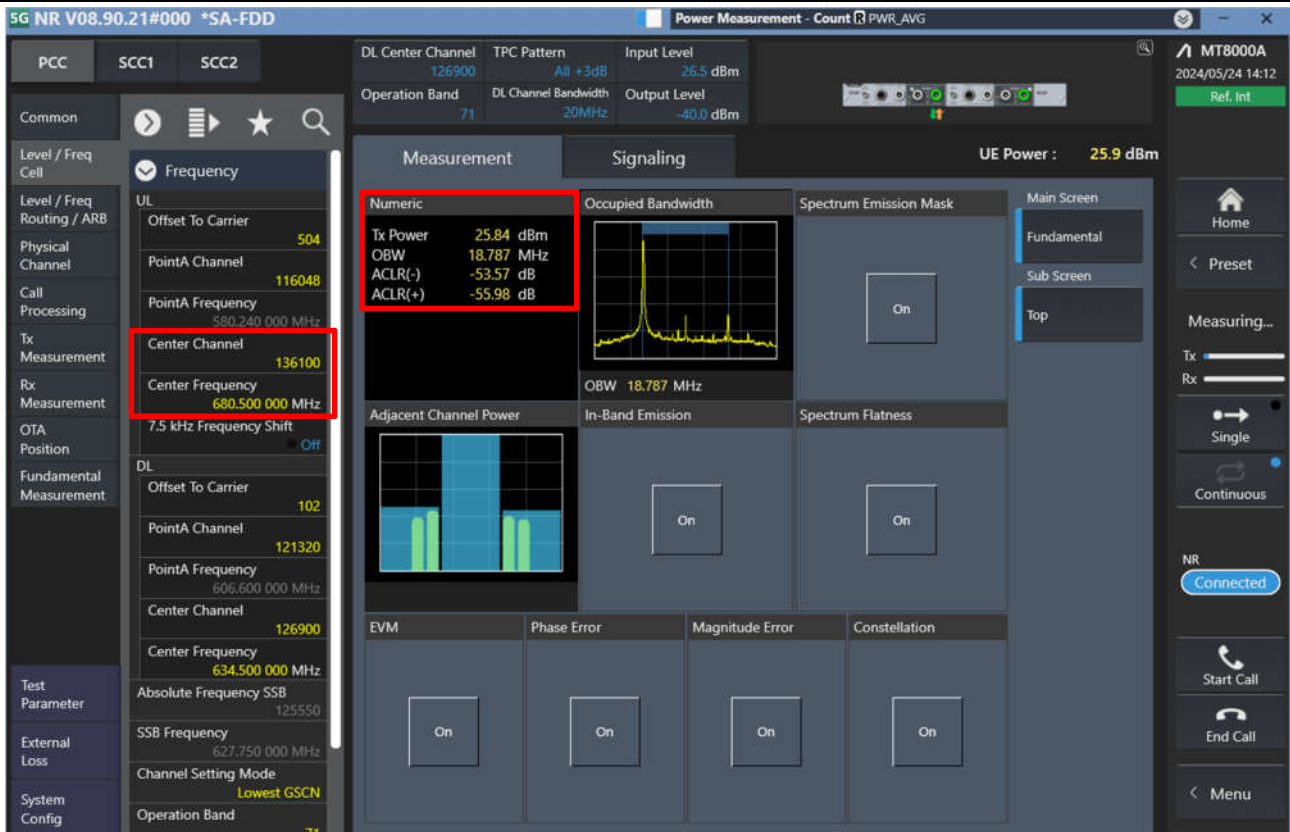
Start Call

End Call

Menu

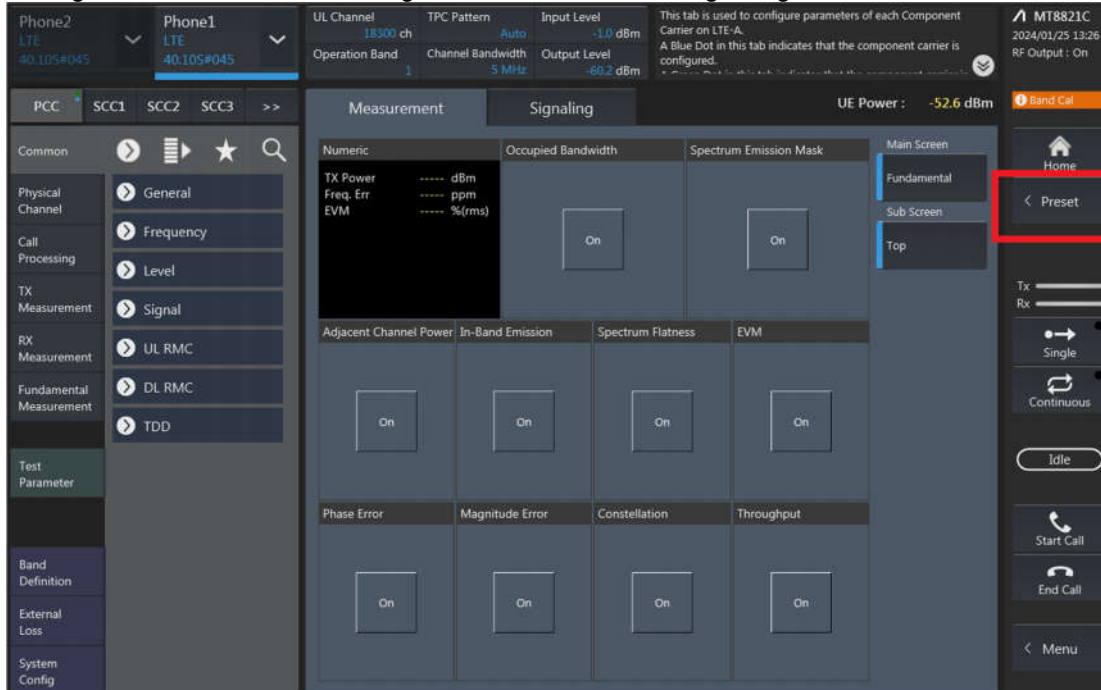
<5G NR FR1>





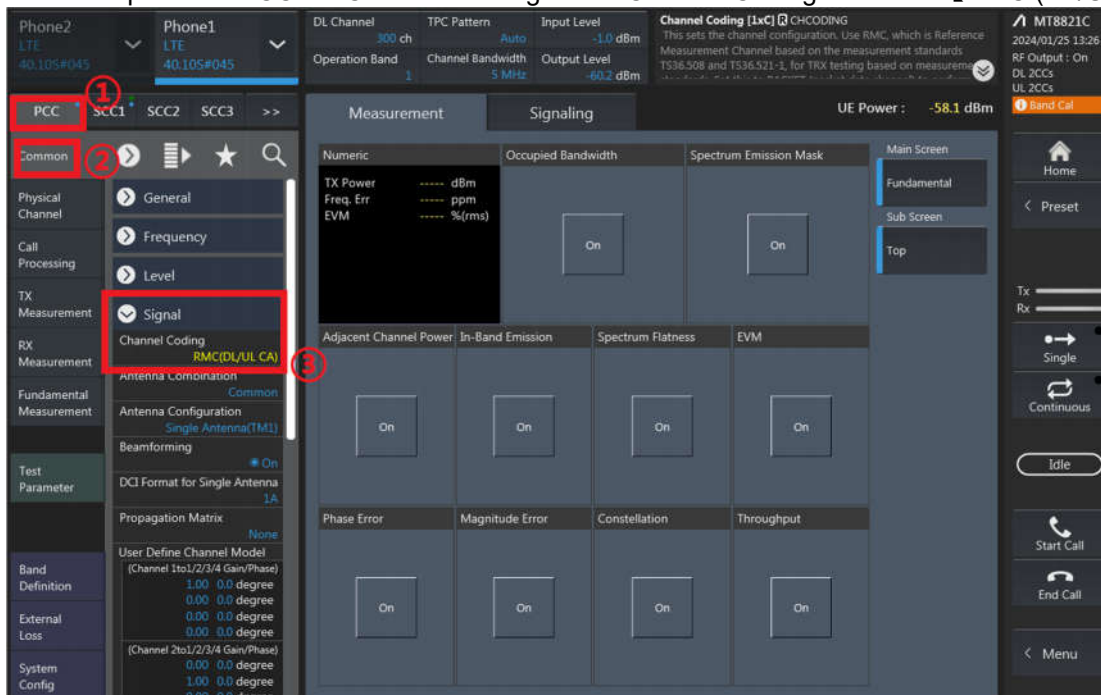
LTE Uplink and Downlink Carrier Aggregation configurations:

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

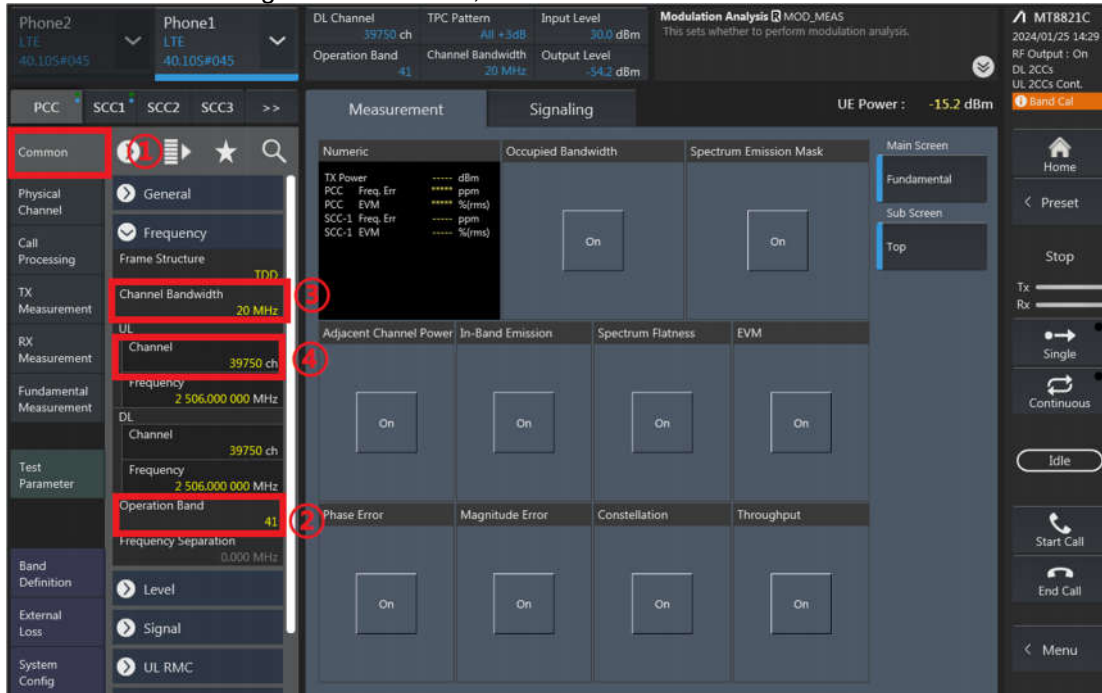


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.
For example, Uplink Carrier Aggregation:

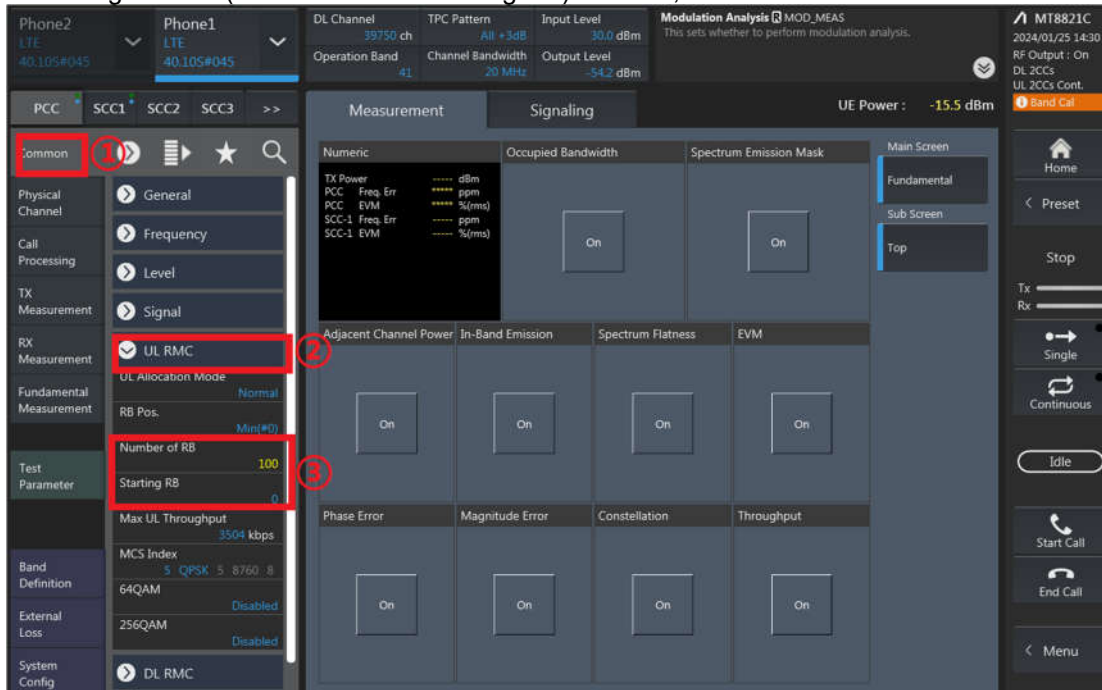
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



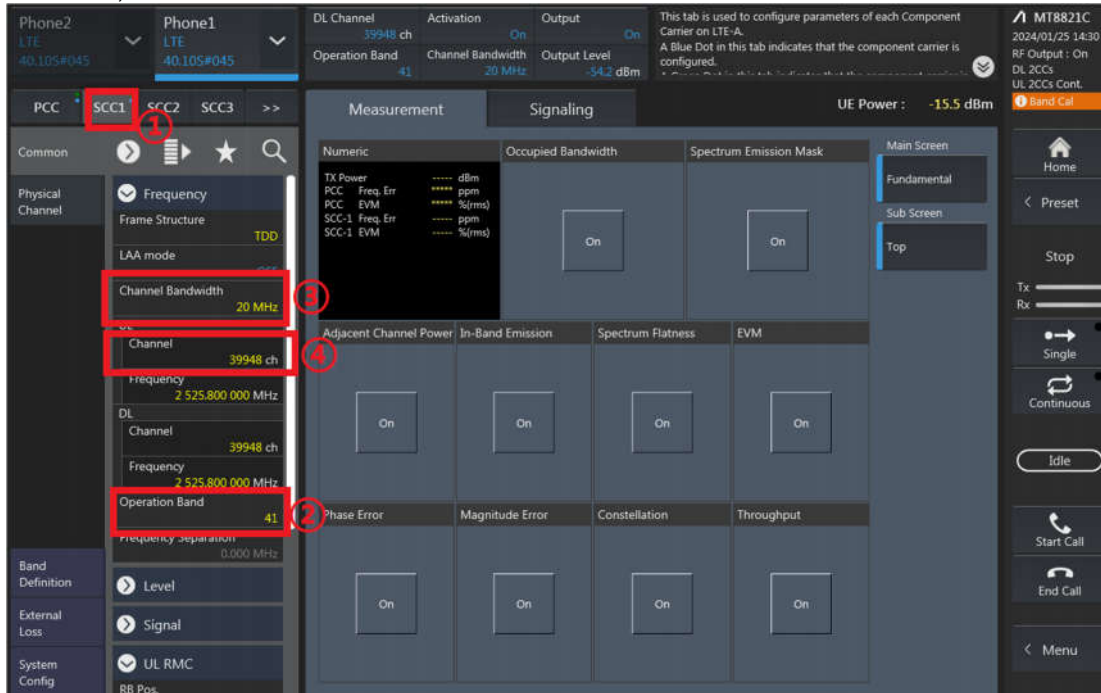
3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



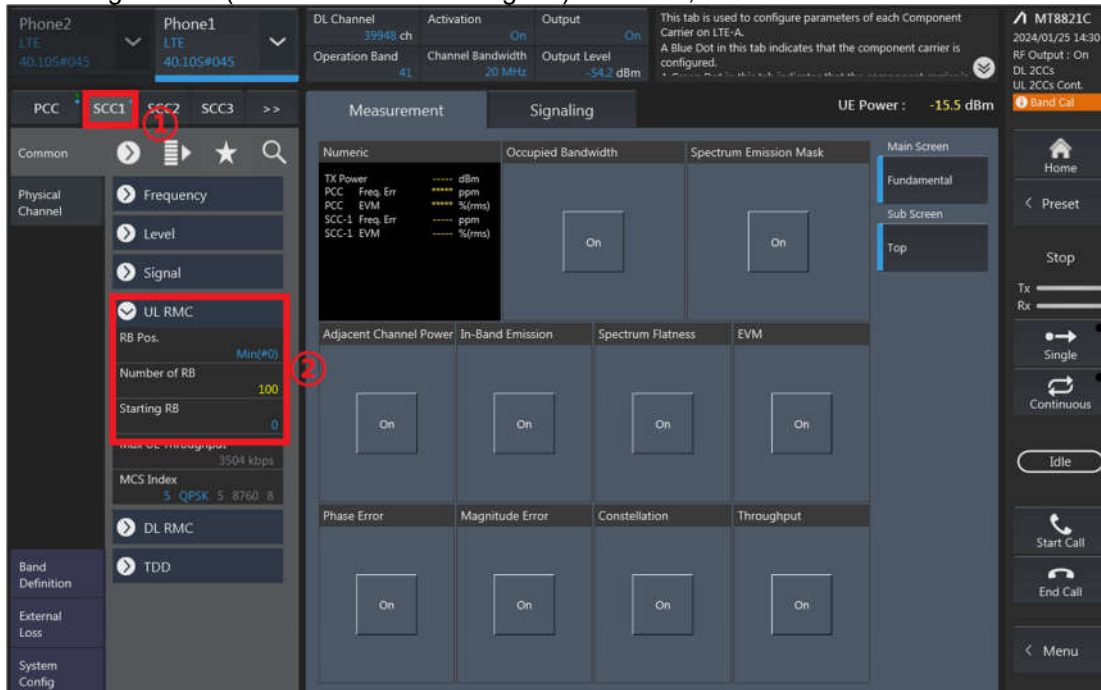
RB configurations (Number of RB / Starting RB) for PCC;



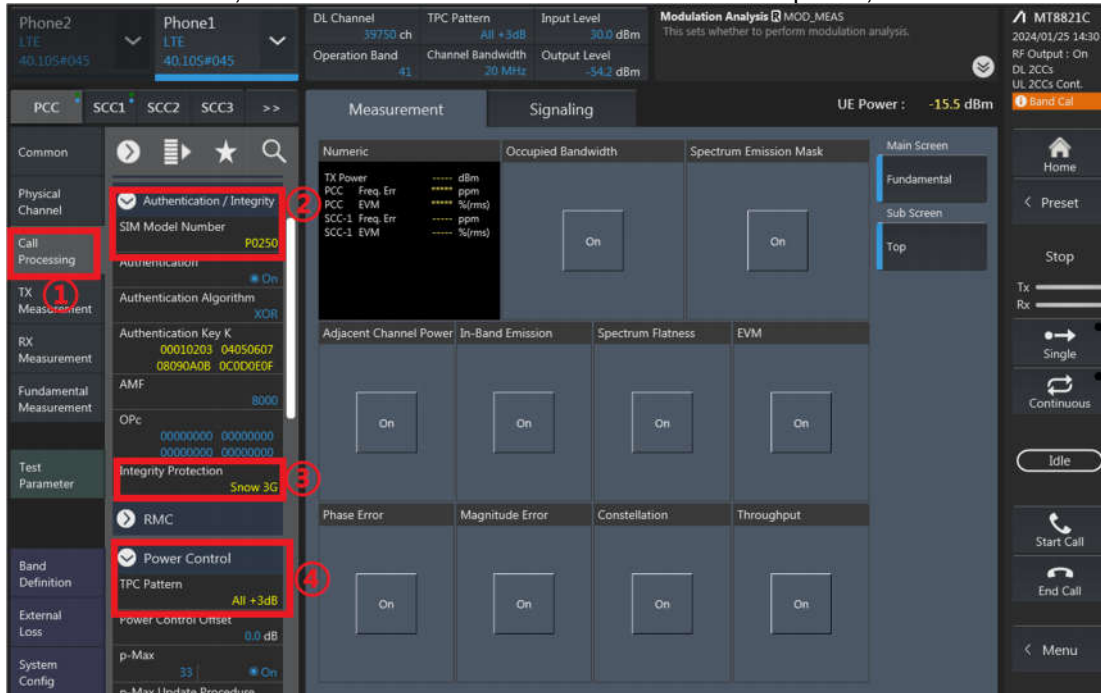
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



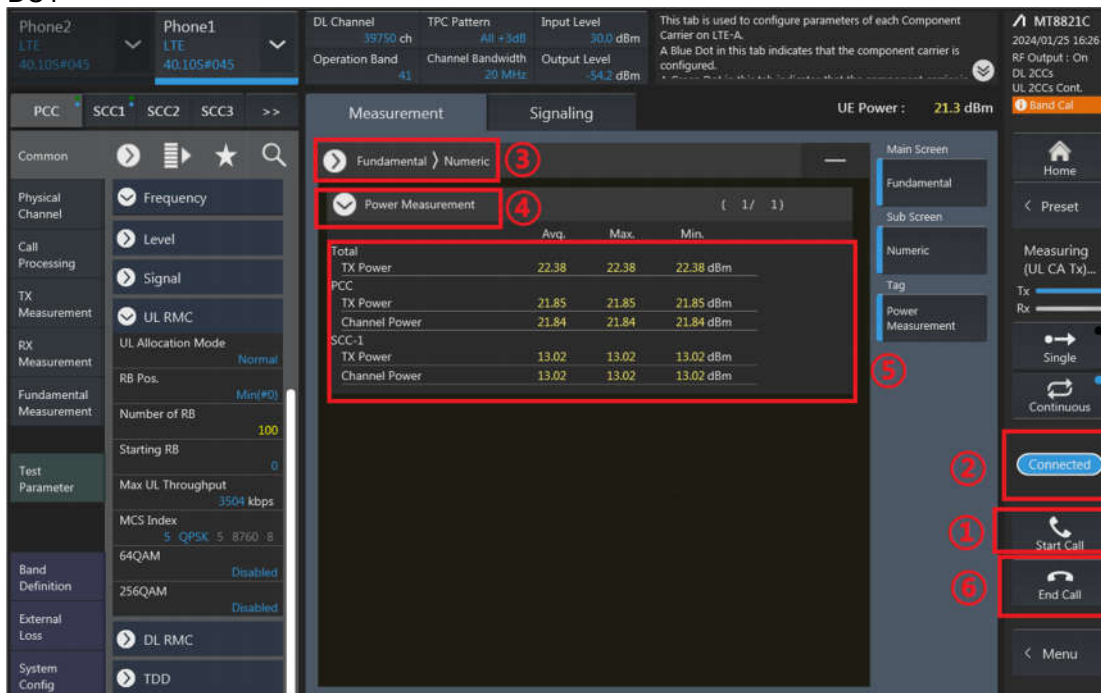
RB configurations (Number of RB / Starting RB) for SCC1;



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



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



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

Uplink CA Power

CA_3BC_Ant 1											
Combination 20MHz+20MHzx2 (100RB+100RB)											
PCB Channel	SCC Channel	Modulation	POC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37680	38048	QPSK	1	0	0	0	1	0	Full Power	22.95	24.50
37601	38069	QPSK	1	0	0	0	1	0	Full Power	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	Full Power	23.00	24.50
37680	38048	QPSK	1	0	0	0	1	0	EQH11	18.39	19.50
37601	38069	QPSK	1	0	0	0	1	0	EQH11	18.34	19.50
38150	37952	QPSK	1	0	0	0	1	0	EQH11	18.41	19.50
38160	38048	QPSK	1	0	0	0	1	0	EQI2	17.82	19.00
37601	38069	QPSK	1	0	0	0	1	0	EQI2	17.85	19.00
38150	37952	QPSK	1	0	0	0	1	0	EQI2	17.90	19.00
37680	38048	QPSK	1	0	0	0	1	0	EQI3	22.95	24.50
37601	38069	QPSK	1	0	0	0	1	0	EQI3	22.99	24.50
38150	37952	QPSK	1	0	0	0	1	0	EQI3	23.00	24.50
37680	38048	QPSK	1	0	0	0	1	0	EQI4	21.43	23.00
37601	38069	QPSK	1	0	0	0	1	0	EQI4	21.49	23.00
38150	37952	QPSK	1	0	0	0	1	0	EQI4	21.47	23.00
37680	38048	QPSK	1	0	0	0	1	0	EQI5	22.95	24.50
37601	38069	QPSK	1	0	0	0	1	0	EQI5	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	EQI5	23.00	24.50
37680	38048	QPSK	1	0	0	0	1	0	EQI6	22.95	24.50
37601	38069	QPSK	1	0	0	0	1	0	EQI6	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	EQI6	23.00	24.50
37680	38048	QPSK	1	0	0	0	1	0	EQI7	22.99	24.50
37601	38069	QPSK	1	0	0	0	1	0	EQI7	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	EQI7	23.00	24.50
37680	38048	QPSK	1	0	0	0	1	0	EQI8	22.95	24.50
37601	38069	QPSK	1	0	0	0	1	0	EQI8	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	EQI8	23.00	24.50
37680	38048	QPSK	1	0	0	0	1	0	EQI9	20.82	22.50
37601	38069	QPSK	1	0	0	0	1	0	EQI9	20.98	22.50

CA_30C_Ant 2											
Combination 20MHz+20MHz (100RB-100RB)											
PCB Channel	SCC Channel	Modulation	PDC		SCC		Total RB	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Time up (s)
			RB Size	RB offset	RB Size	RB offset					
37650	38048	QPSK	1	0	0	0	1	0	Full Power	23.56	24.50
37901	38009	QPSK	1	0	0	0	1	0	Full Power	23.55	24.50
38150	37952	QPSK	0	0	23	0	23	0	Full Power	23.55	24.50
37650	38048	QPSK	1	0	0	0	1	0	EG11	23.56	24.50
37901	38009	QPSK	1	0	0	0	1	0	EG11	23.55	24.50
38150	37952	QPSK	0	0	0	0	0	0	EG11	23.55	24.50
37650	38048	QPSK	1	0	0	0	1	0	EG12	23.56	24.50
37901	38009	QPSK	1	0	0	0	1	0	EG12	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	EG12	23.56	24.50
37650	38048	QPSK	1	0	0	0	1	0	EG13	23.56	24.50
37901	38009	QPSK	1	0	0	0	1	0	EG13	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	EG13	23.56	24.50
37650	38048	QPSK	1	0	0	0	1	0	EG14	23.56	24.50
37901	38009	QPSK	1	0	0	0	1	0	EG14	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	EG14	23.56	24.50
37650	38048	QPSK	1	0	0	0	1	0	EG15	23.56	24.50
37901	38009	QPSK	1	0	0	0	1	0	EG15	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	EG15	23.56	24.50
37650	38048	QPSK	1	0	0	0	1	0	EG16	23.56	24.50
37901	38009	QPSK	1	0	0	0	1	0	EG16	23.55	24.50
38150	37952	QPSK	1	0	0	0	1	0	EG16	23.56	24.50
37650	38048	QPSK	1	0	0	0	1	0	EG17	23.10	24.00
37901	38009	QPSK	1	0	0	0	1	0	EG17	23.11	24.00
38150	37952	QPSK	1	0	0	0	1	0	EG17	23.12	24.00
37650	38048	QPSK	1	0	0	0	1	0	EG18	21.53	22.50
37901	38009	QPSK	1	0	0	0	1	0	EG18	21.50	22.50
38150	37952	QPSK	1	0	0	0	1	0	EG18	21.58	22.50
37650	38048	QPSK	1	0	0	0	1	0	EG19	21.52	22.50
37901	38009	QPSK	1	0	0	0	1	0	EG19	21.55	22.50
38150	37952	QPSK	1	0	0	0	1	0	EG19	21.60	22.50

CA_35C_Ant 4									
Combination 20MHz+20MHz (100RB+100RB)									
PCB Channel	SFC Channel	Modulation	POC RB Size	SFC RB Size	Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)
3750	38048	QPSK	1	0	0	1	Full Power	23.20	24.50
3750	38059	QPSK	1	0	0	1	Full Power	23.12	24.50
38180	37952	QPSK	1	0	0	1	Full Power	23.15	24.50
3750	38048	QPSK	0	0	0	1	EGH1	18.51	20.00
3750	38059	QPSK	1	0	0	1	EGH1	18.44	20.00
38180	37952	QPSK	1	0	0	1	EGH1	18.52	20.00
3750	38048	QPSK	1	0	0	1	EGI2	17.92	19.50
3750	38059	QPSK	1	0	0	1	EGI2	17.95	19.50
38180	37952	QPSK	1	0	0	1	EGI2	17.90	19.50
3750	38048	QPSK	0	0	0	1	EGI3	23.02	24.50
3750	38059	QPSK	1	0	0	1	EGI3	23.12	24.50
38180	37952	QPSK	1	0	0	1	EGI3	23.15	24.50
3750	38048	QPSK	0	0	0	1	EGI4	23.02	24.50
3750	38059	QPSK	1	0	0	1	EGI4	23.12	24.50
38180	37952	QPSK	1	0	0	1	EGI4	23.15	24.50
3750	38048	QPSK	1	0	0	1	EGI5	23.20	24.50
3750	38059	QPSK	1	0	0	1	EGI5	23.12	24.50
38180	37952	QPSK	1	0	0	1	EGI5	23.15	24.50
3750	38048	QPSK	1	0	0	1	EGI6	23.20	24.50
3750	38059	QPSK	1	0	0	1	EGI6	23.12	24.50
38180	37952	QPSK	1	0	0	1	EGI6	23.15	24.50
3750	38048	QPSK	1	0	0	1	EGI7	23.20	24.50
3750	38059	QPSK	1	0	0	1	EGI7	23.12	24.50
38180	37952	QPSK	1	0	0	1	EGI7	23.15	24.50
3750	38048	QPSK	1	0	0	1	EGI8	23.20	24.50
3750	38059	QPSK	1	0	0	1	EGI8	23.12	24.50
38180	37952	QPSK	1	0	0	1	EGI8	23.15	24.50
3750	38048	QPSK	1	0	0	1	EGI9	22.19	23.50
3750	38059	QPSK	1	0	0	1	EGI9	22.12	23.50
38180	37952	QPSK	1	0	0	1	EGI9	22.15	23.50

CA_412_Ant 1												
Combination 20MHz±20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total	Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
39750	39648	QPSK	1	0	0	0	1	0	Full Power	23.12	24.50	24.50
40185	39667	QPSK	1	0	0	0	1	0	Full Power	22.99	24.50	24.50
40620	40562	QPSK	1	0	0	0	1	0	Full Power	23.05	24.50	24.50
41055	40587	QPSK	1	0	0	0	1	0	Full Power	23.13	24.50	24.50
41490	41250	QPSK	1	0	0	0	1	0	Full Power	23.49	24.50	24.50
39750	39648	QPSK	1	0	0	0	1	0	E011	18.16	19.50	19.50
40185	39667	QPSK	1	0	0	0	1	0	E011	18.25	19.50	19.50
40620	40562	QPSK	1	0	0	0	1	0	E011	18.39	19.50	19.50
41055	40587	QPSK	1	0	0	0	1	0	E011	18.47	19.50	19.50
41490	41250	QPSK	1	0	0	0	1	0	E011	18.48	19.50	19.50
39750	39648	QPSK	1	0	0	0	1	0	E012	17.78	19.00	19.00
40185	39667	QPSK	1	0	0	0	1	0	E012	17.82	19.00	19.00
40620	40562	QPSK	1	0	0	0	1	0	E012	17.88	19.00	19.00
41055	40587	QPSK	1	0	0	0	1	0	E012	17.92	19.00	19.00
41490	41250	QPSK	1	0	0	0	1	0	E012	17.95	19.00	19.00
39750	39648	QPSK	1	0	0	0	1	0	E013	23.12	24.50	24.50
40185	39667	QPSK	1	0	0	0	1	0	E013	23.06	24.50	24.50
40620	40562	QPSK	1	0	0	0	1	0	E013	23.45	24.50	24.50
41055	40587	QPSK	1	0	0	0	1	0	E013	23.13	24.50	24.50
41490	41250	QPSK	1	0	0	0	1	0	E013	23.49	24.50	24.50
39750	39648	QPSK	1	0	0	0	1	0	E014	21.88	23.00	23.00
40185	39667	QPSK	1	0	0	0	1	0	E014	21.83	23.00	23.00
40620	40562	QPSK	1	0	0	0	1	0	E014	21.92	23.00	23.00
41055	40587	QPSK	1	0	0	0	1	0	E014	21.80	23.00	23.00
41490	41250	QPSK	1	0	0	0	1	0	E014	22.09	23.00	23.00
39750	39648	QPSK	1	0	0	0	1	0	E015	23.12	24.50	24.50
40185	39667	QPSK	1	0	0	0	1	0	E015	22.99	24.50	24.50
40620	40562	QPSK	1	0	0	0	1	0	E015	23.45	24.50	24.50
41055	40587	QPSK	1	0	0	0	1	0	E015	23.13	24.50	24.50
41490	41250	QPSK	1	0	0	0	1	0	E015	23.49	24.50	24.50
39750	39648	QPSK	1	0	0	0	1	0	E016	23.12	24.50	24.50
40185	39667	QPSK	1	0	0	0	1	0	E016	22.99	24.50	24.50
40620	40562	QPSK	1	0	0	0	1	0	E016	23.47	24.50	24.50
41055	40587	QPSK	1	0	0	0	1	0	E016	23.13	24.50	24.50
41490	41250	QPSK	1	0	0	0	1	0	E016	23.49	24.50	24.50
39750	39648	QPSK	1	0	0	0	1	0	E017	23.12	24.50	24.50
40185	39667	QPSK	1	0	0	0	1	0	E017	22.99	24.50	24.50
40620	40562	QPSK	1	0	0	0	1	0	E017	23.45	24.50	24.50
41055	40587	QPSK	1	0	0	0	1	0	E017	23.13	24.50	24.50
41490	41250	QPSK	1	0	0	0	1	0	E017	23.49	24.50	24.50
39750	39648	QPSK	1	0	0	0	1	0	E018	23.12	24.50	24.50
40185	39667	QPSK	1	0	0	0	1	0	E018	22.99	24.50	24.50
40620	40562	QPSK	1	0	0	0	1	0	E018	23.45	24.50	24.50
41055	40587	QPSK	1	0	0	0	1	0	E018	23.13	24.50	24.50
41490	41250	QPSK	1	0	0	0	1	0	E018	23.49	24.50	24.50
39750	39648	QPSK	1	0	0	0	1	0	E019	20.91	22.50	22.50
40185	39667	QPSK	1	0	0	0	1	0	E019	20.90	22.50	22.50
40620	40562	QPSK	1	0	0	0	1	0	E019	21.12	22.50	22.50
41055	40587	QPSK	1	0	0	0	1	0	E019	20.96	22.50	22.50
41490	41250	QPSK	1	0	0	0	1	0	E019	21.20	22.50	22.50

CA 41C_Ant 2											
Combination 20MHz+20MHz (100RB+100RB)											
PCC CCID	SCC CCID	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39698	QPSK	1	0	0	0	1	0	Full Power	23.45	24.50
40185	39687	QPSK	1	0	0	0	1	0	Full Power	23.62	24.50
40620	40422	QPSK	1	0	0	0	1	0	Full Power	23.69	24.50
41405	40398	QPSK	1	0	0	0	1	0	Full Power	23.28	24.50
41490	41250	QPSK	1	0	0	0	1	0	Full Power	23.40	24.50
39750	39698	QPSK	1	0	0	0	1	0	E011	23.45	24.50
40185	39687	QPSK	1	0	0	0	1	0	E011	23.52	24.50
40620	40422	QPSK	1	0	0	0	1	0	E011	23.69	24.50
41405	40567	QPSK	1	0	0	0	1	0	E011	23.28	24.50
41490	41250	QPSK	1	0	0	0	1	0	E011	23.40	24.50
39750	39698	QPSK	1	0	0	0	1	0	E012	23.45	24.50
40185	39687	QPSK	1	0	0	0	1	0	E012	23.62	24.50
40620	40422	QPSK	1	0	0	0	1	0	E012	23.69	24.50
41405	40567	QPSK	1	0	0	0	1	0	E012	23.28	24.50
41490	41250	QPSK	1	0	0	0	1	0	E012	23.40	24.50
39750	39698	QPSK	1	0	0	0	1	0	E013	23.45	24.50
40185	39687	QPSK	1	0	0	0	1	0	E013	23.62	24.50
40620	40422	QPSK	1	0	0	0	1	0	E013	23.69	24.50
41405	40567	QPSK	1	0	0	0	1	0	E013	23.28	24.50
41490	41250	QPSK	1	0	0	0	1	0	E013	23.40	24.50
39750	39698	QPSK	1	0	0	0	1	0	E014	23.45	24.50
40185	39687	QPSK	1	0	0	0	1	0	E014	23.52	24.50
40620	40422	QPSK	1	0	0	0	1	0	E014	23.69	24.50
41405	40567	QPSK	1	0	0	0	1	0	E014	23.28	24.50
41490	41250	QPSK	1	0	0	0	1	0	E014	23.40	24.50
39750	39698	QPSK	1	0	0	0	1	0	E015	23.45	24.50
40185	39687	QPSK	1	0	0	0	1	0	E015	23.62	24.50
40620	40422	QPSK	1	0	0	0	1	0	E015	23.69	24.50
41405	40567	QPSK	1	0	0	0	1	0	E015	23.28	24.50
41490	41250	QPSK	1	0	0	0	1	0	E015	23.40	24.50
39750	39698	QPSK	1	0	0	0	1	0	E016	23.45	24.50
40185	39687	QPSK	1	0	0	0	1	0	E016	23.62	24.50
40620	40422	QPSK	1	0	0	0	1	0	E016	23.69	24.50
41405	40567	QPSK	1	0	0	0	1	0	E016	23.28	24.50
41490	41250	QPSK	1	0	0	0	1	0	E016	23.40	24.50
39750	39698	QPSK	1	0	0	0	1	0	E017	22.99	24.00
40185	39687	QPSK	1	0	0	0	1	0	E017	22.97	24.00
40620	40422	QPSK	1	0	0	0	1	0	E017	23.22	24.00
41405	40567	QPSK	1	0	0	0	1	0	E017	22.78	24.00
41490	41250	QPSK	1	0	0	0	1	0	E017	22.99	24.00
39750	39698	QPSK	1	0	0	0	1	0	E018	21.58	22.50
40185	39687	QPSK	1	0	0	0	1	0	E018	21.65	22.50
40620	40422	QPSK	1	0	0	0	1	0	E018	21.70	22.50
41405	40567	QPSK	1	0	0	0	1	0	E018	21.50	22.50
41490	41250	QPSK	1	0	0	0	1	0	E018	21.62	22.50
39750	39698	QPSK	1	0	0	0	1	0	E019	21.58	22.50
40185	39687	QPSK	1	0	0	0	1	0	E019	21.55	22.50
40620	40422	QPSK	1	0	0	0	1	0	E019	21.70	22.50
41405	40567	QPSK	1	0	0	0	1	0	E019	21.50	22.50
41490	41250	QPSK	1	0	0	0	1	0	E019	21.62	22.50

CA_41C_Ant 4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB	Target MPR Level (%)	Measured Power	Tune up Power	
30750			RB Size	RB offset	RB Size	RB offset	Size		Full Power	23.33	24.50
40185	39667	QPSK	1	0	0	0	1	0	Full Power	23.33	24.50
40630	40432	QPSK	1	0	0	0	1	0	Full Power	23.32	24.50
41405	39667	QPSK	1	0	0	0	1	0	Full Power	23.49	24.50
41430	41250	QPSK	1	0	0	0	1	0	Full Power	23.52	24.50
39750	39668	QPSK	1	0	0	0	1	0	EC11	18.70	20.00
40185	39667	QPSK	1	0	0	0	1	0	EC11	18.83	20.00
40630	40432	QPSK	1	0	0	0	1	0	EC12	18.78	20.00
41405	39667	QPSK	1	0	0	0	1	0	EC11	19.78	20.00
41430	41250	QPSK	1	0	0	0	1	0	EC11	18.91	20.00
39750	39668	QPSK	1	0	0	0	1	0	EC12	18.22	19.50
40185	39667	QPSK	1	0	0	0	1	0	EC12	18.25	19.50
40630	40432	QPSK	1	0	0	0	1	0	EC12	18.30	19.50
41405	40657	QPSK	1	0	0	0	1	0	EC12	18.33	19.50
41430	41250	QPSK	1	0	0	0	1	0	EC12	18.88	19.50
39750	39668	QPSK	1	0	0	0	1	0	EC13	23.33	24.50
40185	39667	QPSK	1	0	0	0	1	0	EC13	23.45	24.50
40630	40432	QPSK	1	0	0	0	1	0	EC13	23.32	24.50
41405	40657	QPSK	1	0	0	0	1	0	EC13	23.49	24.50
41430	41250	QPSK	1	0	0	0	1	0	EC13	23.52	24.50
39750	39668	QPSK	1	0	0	0	1	0	EC14	23.33	24.50
40185	39667	QPSK	1	0	0	0	1	0	EC14	23.45	24.50
40630	40432	QPSK	1	0	0	0	1	0	EC14	23.32	24.50
41405	40657	QPSK	1	0	0	0	1	0	EC14	23.49	24.50
41430	41250	QPSK	1	0	0	0	1	0	EC14	23.52	24.50
39750	39668	QPSK	1	0	0	0	1	0	EC15	23.33	24.50
40185	39667	QPSK	1	0	0	0	1	0	EC15	23.45	24.50
40630	40432	QPSK	1	0	0	0	1	0	EC15	23.32	24.50
41405	40657	QPSK	1	0	0	0	1	0	EC15	23.49	24.50
41430	41250	QPSK	1	0	0	0	1	0	EC15	23.52	24.50
39750	39668	QPSK	1	0	0	0	1	0	EC16	23.33	24.50
40185	39667	QPSK	1	0	0	0	1	0	EC16	23.45	24.50
40630	40432	QPSK	1	0	0	0	1	0	EC16	23.32	24.50
41405	40657	QPSK	1	0	0	0	1	0	EC16	23.49	24.50
41430	41250	QPSK	1	0	0	0	1	0	EC16	23.52	24.50
39750	39668	QPSK	1	0	0	0	1	0	EC17	23.33	24.50
40185	39667	QPSK	1	0	0	0	1	0	EC17	23.45	24.50
40630	40432	QPSK	1	0	0	0	1	0	EC17	23.32	24.50
41405	40657	QPSK	1	0	0	0	1	0	EC17	23.49	24.50
41430	41250	QPSK	1	0	0	0	1	0	EC17	23.52	24.50
39750	39668	QPSK	1	0	0	0	1	0	EC18	23.33	24.50
40185	39667	QPSK	1	0	0	0	1	0	EC18	23.45	24.50
40630	40432	QPSK	1	0	0	0	1	0	EC18	23.32	24.50
41405	40657	QPSK	1	0	0	0	1	0	EC18	23.49	24.50
41430	41250	QPSK	1	0	0	0	1	0	EC18	23.52	24.50
39750	39668	QPSK	1	0	0	0	1	0	EC19	22.16	23.50
40185	39667	QPSK	1	0	0	0	1	0	EC19	22.29	23.50
40630	40432	QPSK	1	0	0	0	1	0	EC19	22.20	23.50
41405	40657	QPSK	1	0	0	0	1	0	EC19	22.21	23.50
41430	41250	QPSK	1	0	0	0	1	0	EC19	22.28	23.50

Downlink CA Power

2CC															
Configure		CA Configuration (BCS)	PCC						SCC				Power		
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)
Inter-Band		CA_5A-7A	Band 5	10	829	20450	QPSK	1	0	Band 7	20	2655	3100	23.67	23.87
		CA_4A-7A	Band 4	20	1732.5	20175	QPSK	1	0	Band 7	20	2655	3100	23.23	23.40
		CA_2A-5A	Band 2	20	1880	18900	QPSK	1	0	Band 5	10	881.5	2525	23.30	23.55
		CA_4A-5A	Band 4	20	1732.5	20175	QPSK	1	0	Band 5	10	881.5	2525	23.23	23.40
		CA_2A-12A	Band 2	20	1880	18900	QPSK	1	0	Band 12	10	737.5	5095	23.30	23.55
		CA_4A-12A	Band 4	20	1732.5	20175	QPSK	1	0	Band 12	10	737.5	5095	23.30	23.40
		CA_2A-7A	Band 2	20	1880	18900	QPSK	1	0	Band 7	20	2655.00	3100	23.44	23.55
		CA_2A-17A	Band 17	10	710	23790	QPSK	1	0	Band 2	10	1960.00	900	23.57	23.67
		CA_4A-17A	Band 17	10	710	23790	QPSK	1	0	Band 4	10	2132.50	2175	23.49	23.67
Intra-Band	Non-Contiguous	CA_7A-7A	Band 7	20	2535	21100	QPSK	1	0	Band 7	20	2680	3350	23.66	23.86
		CA_41A-41A	Band 41	20	2593	40620	QPSK	1	0	Band 41	20	2506	39750	23.70	23.81
		CA_66B	Band 66	10	1750.1	132373	QPSK	1	0	Band 66	10	2160	66936	23.25	23.48
	Contiguous	CA_38C	Band 38	20	2580	37850	QPSK	1	0	Band 38	20	2599.8	38048	23.57	23.75

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