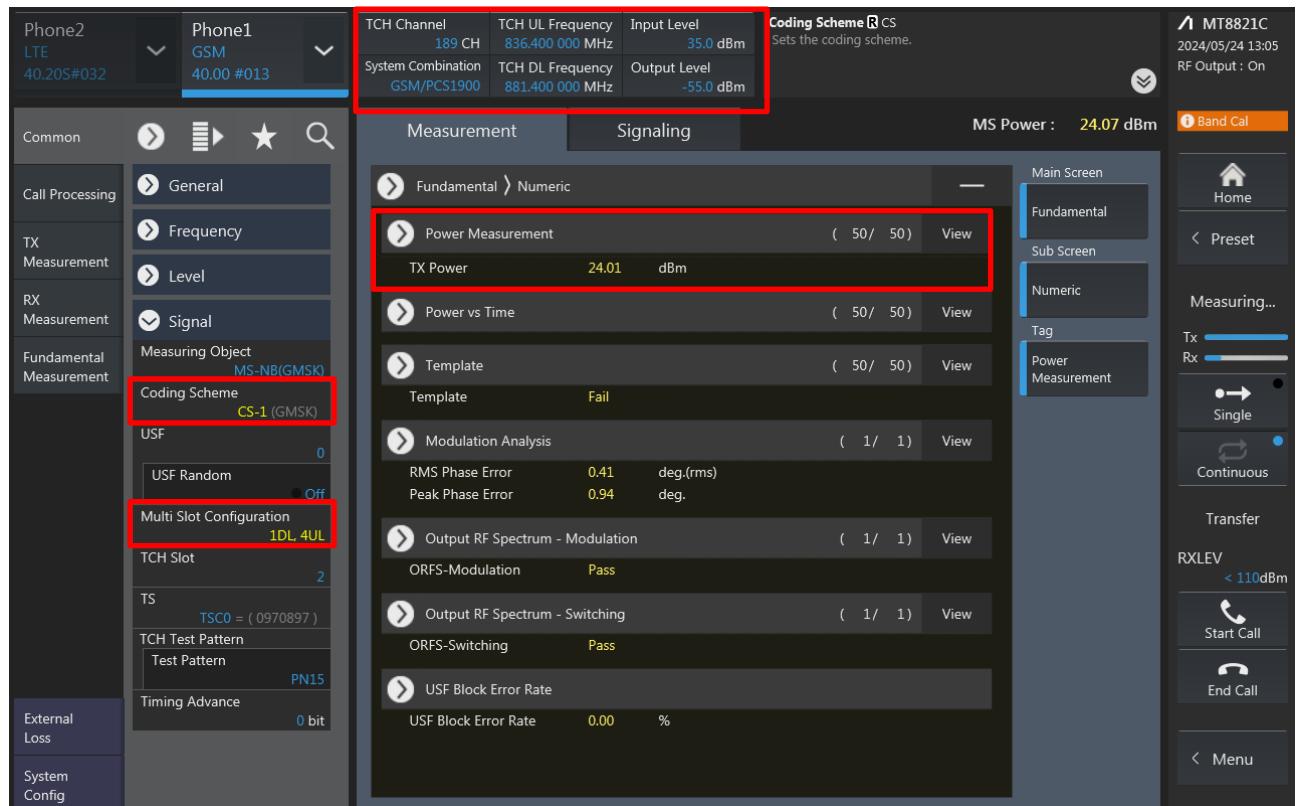




Power measurement connection diagram:

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>





<WCDMA>

The screenshot shows the MT8821C interface for WCDMA measurement. The left sidebar lists various measurement categories like Common, Physical Channel, Call Processing, etc. The main area displays measurement results under the 'Measurement' tab. A red box highlights the 'Power Measurement' section, which shows TX Power as 23.28 dBm. Another red box highlights the 'UL Channel' and 'DL Channel' parameters at the top of the screen.

UL Channel	UL Frequency	Input Level
9400 CH	1 880.000 000 MHz	35.0 dBm

DL Channel	DL Frequency	Output Level
9800 CH	1 960.000 000 MHz	-65.7 dBm

Average Count PWR_AVG
Sets the average count (measurement count) for power measurement.

UE Power : 22.6 dBm

MT8821C
2024/05/24 12:58
RF Output : On

<LTE>

The screenshot shows the MT8821C interface for LTE measurement. The left sidebar lists various measurement categories like Common, Physical Channel, Call Processing, etc. The main area displays measurement results under the 'Measurement' tab. A red box highlights the 'TX Power' value in the 'Numeric' section, which is 23.01 dBm. Another red box highlights the 'Uplink Downlink Configuration' and 'Special Subframe Configuration' sections in the sidebar.

UL Channel	TPC Pattern	Input Level
21100 ch	All +3dB	30.0 dBm

Operation Band	Channel Bandwidth	Output Level
7	20 MHz	-67.0 dBm

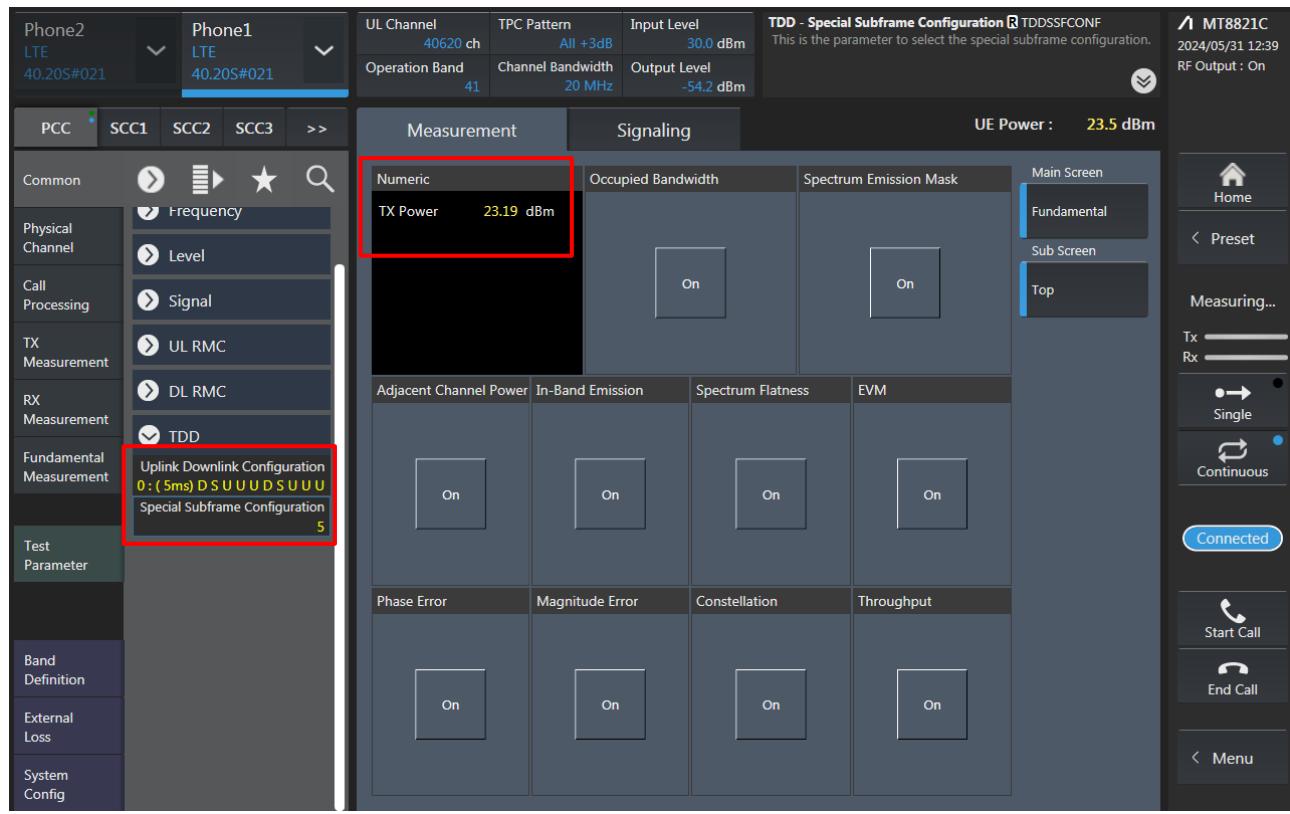
External Loss - Main DL DLEXLOSS
This sets the DL offset at the Main connector. Loss is set as a positive value. The argument tx enables setting a different loss value per internal signal generator.

UE Power : 23.4 dBm

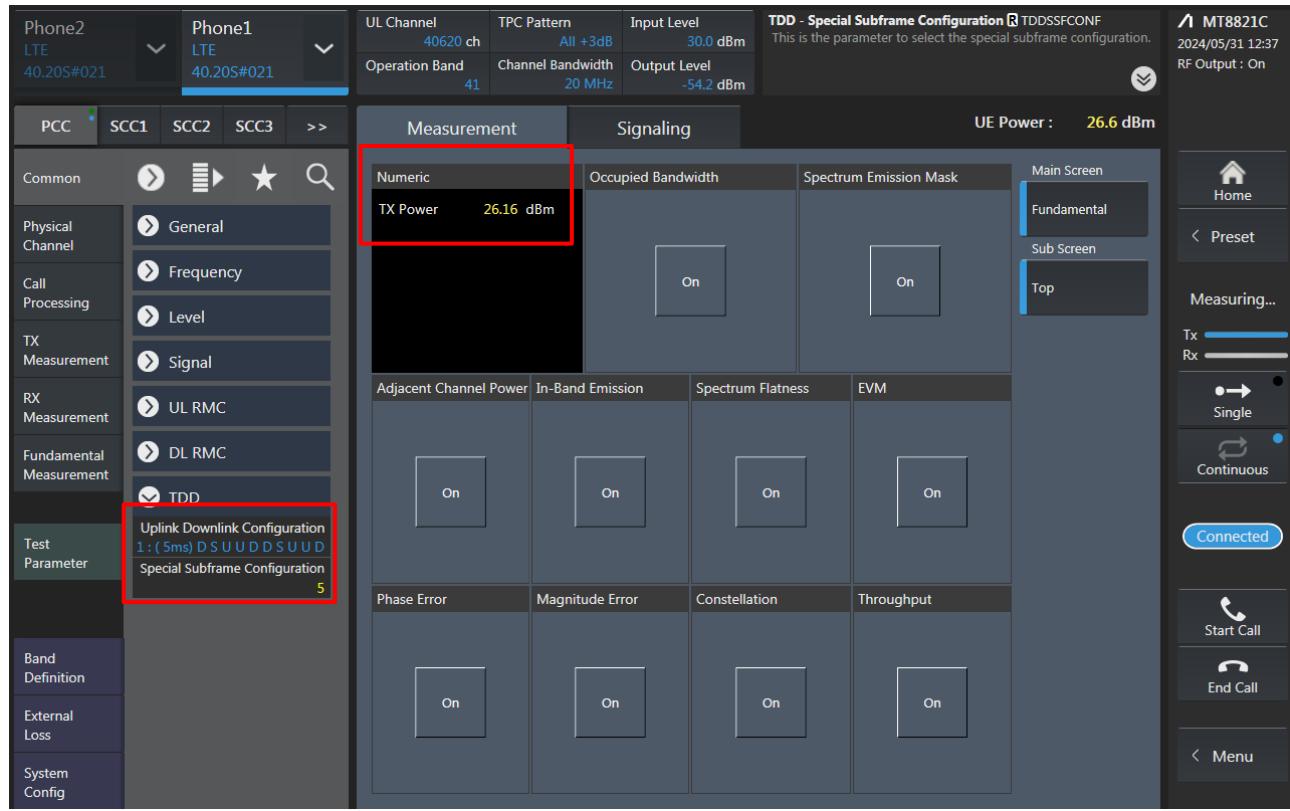
MT8821C
2024/05/31 13:15
RF Output : On



<LTE TDD Power class 3>



<LTE TDD Power class 2>





Phone2 LTE 40.20S#032

Phone1 LTE 40.20S#032

PCC SCC1 SCC2 SCC3 >>

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

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 This sets the measurement count of the power measurement.

Measurement Signaling UE Power : 25.4 dBm

Fundamental Numeric

Power Measurement (50 / 50) TX Power 25.12 dBm

Modulation Analysis Freq. Err 0.00 ppm EVM 1.35 % (rms)

Main Screen Fundamental Sub Screen Numeric Tag Power Measurement

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

Band Cal

Home Preset Measuring... Tx Rx Single Continuous Connected

Start Call End Call Menu

<5GNR FR1>

5G NR V08.90.21#000 *SA-FDD

PCC SCC1 SCC2

Common Level / Freq Cell Level / Freq Routing / ARB Physical Channel Call Processing Tx Measurement Rx Measurement OTA Position Fundamental Measurement Test Parameter External Loss System Config

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

Power Measurement - Count PWR_AVG

Measurement Signaling UE Power : 26.0 dBm

Numeric Tx Power 25.88 dBm OBW 18.787 MHz ACLR(-) -53.74 dB ACLR(+) -55.90 dB

Occupied Bandwidth OBW 18.787 MHz

Spectrum Emission Mask On

Adjacent Channel Power

In-Band Emission

Spectrum Flatness On

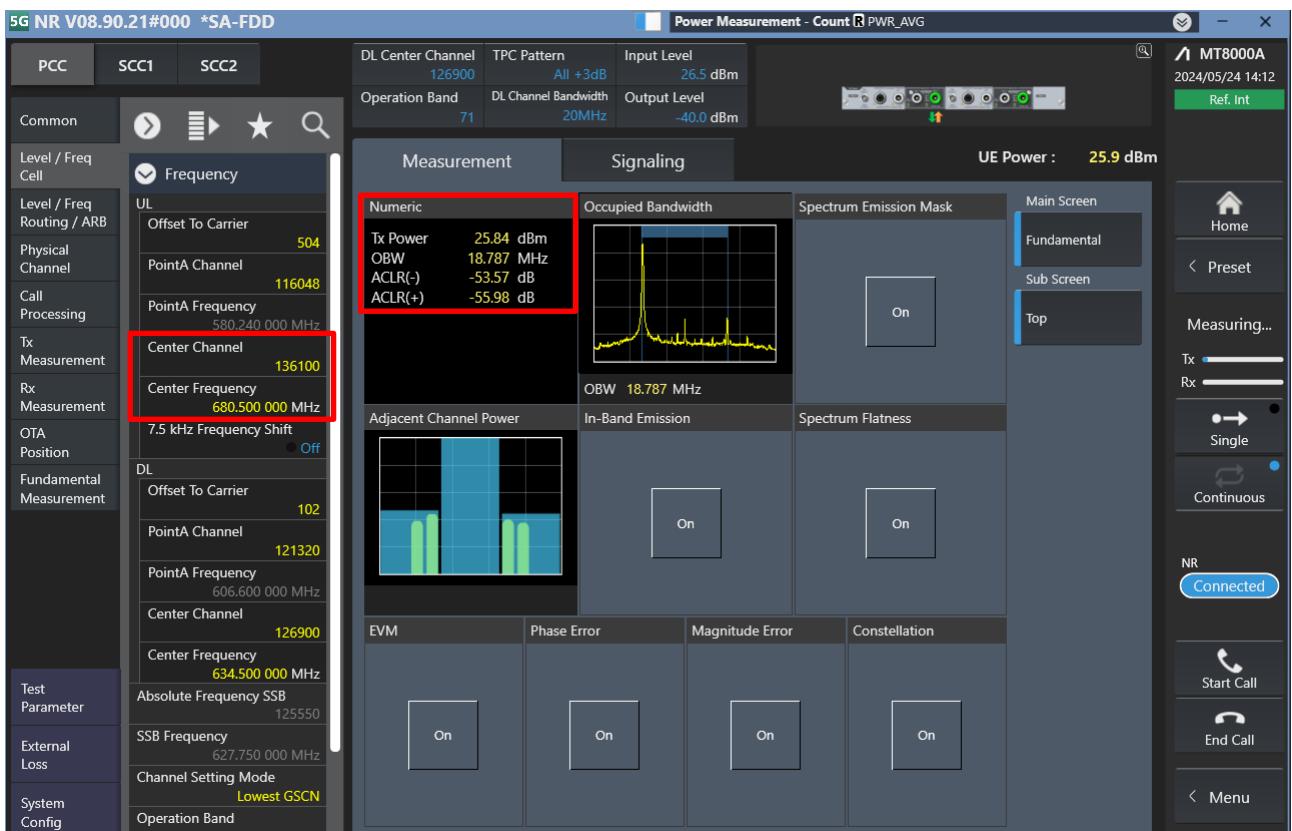
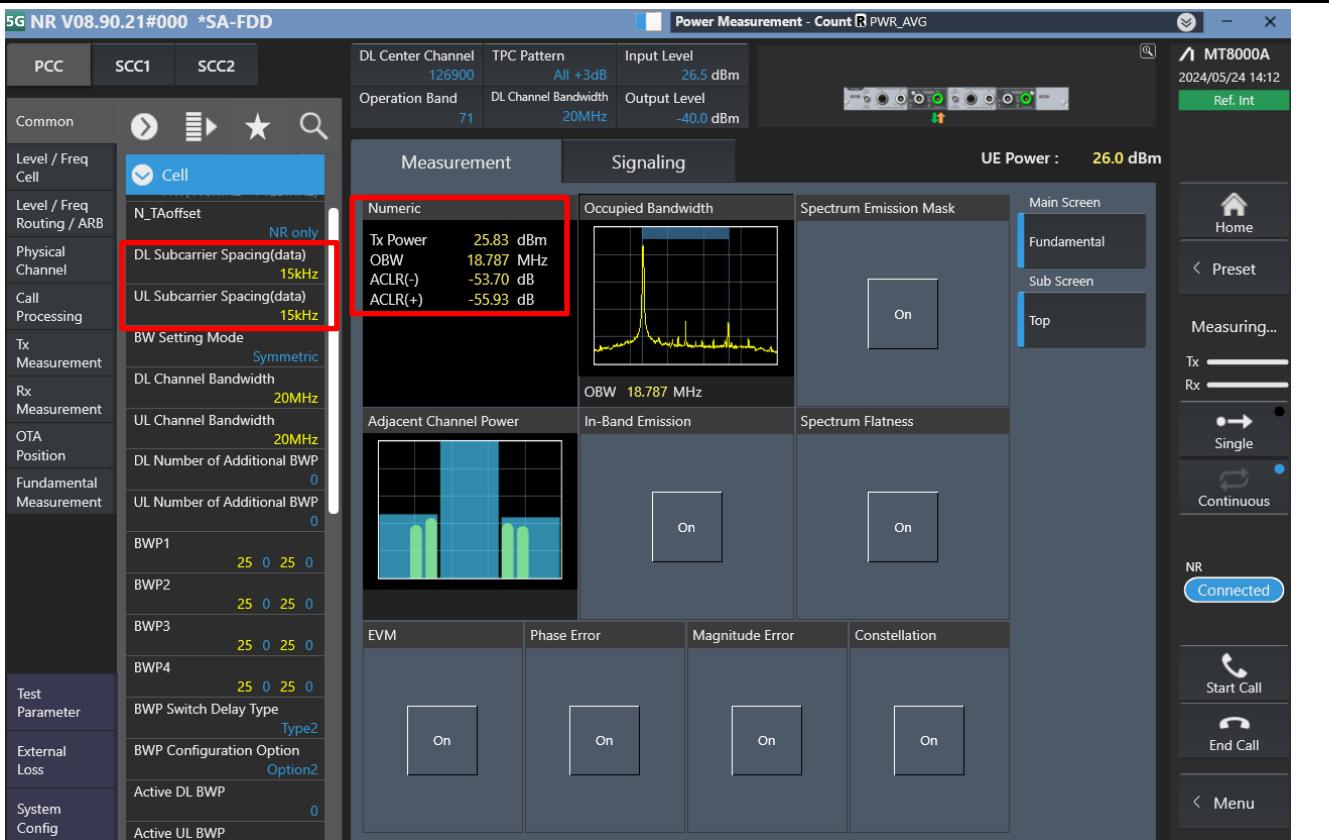
EVM Phase Error Magnitude Error Constellation

Main Screen Fundamental Sub Screen Top

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

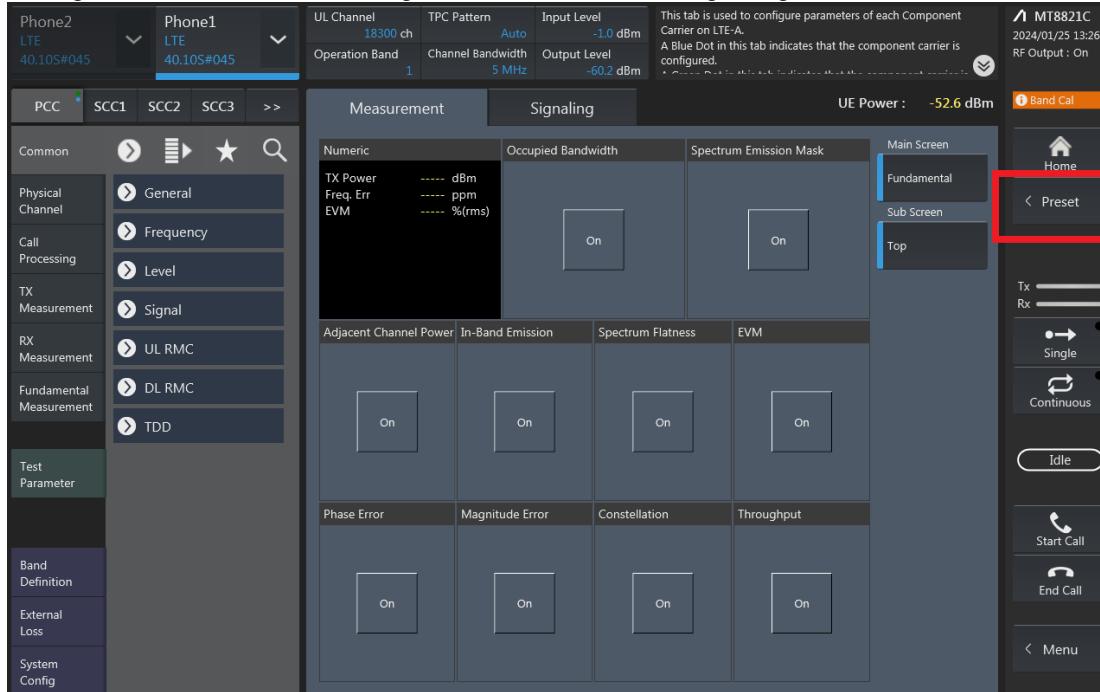
Home Preset Measuring... Tx Rx Single Continuous Connected

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.

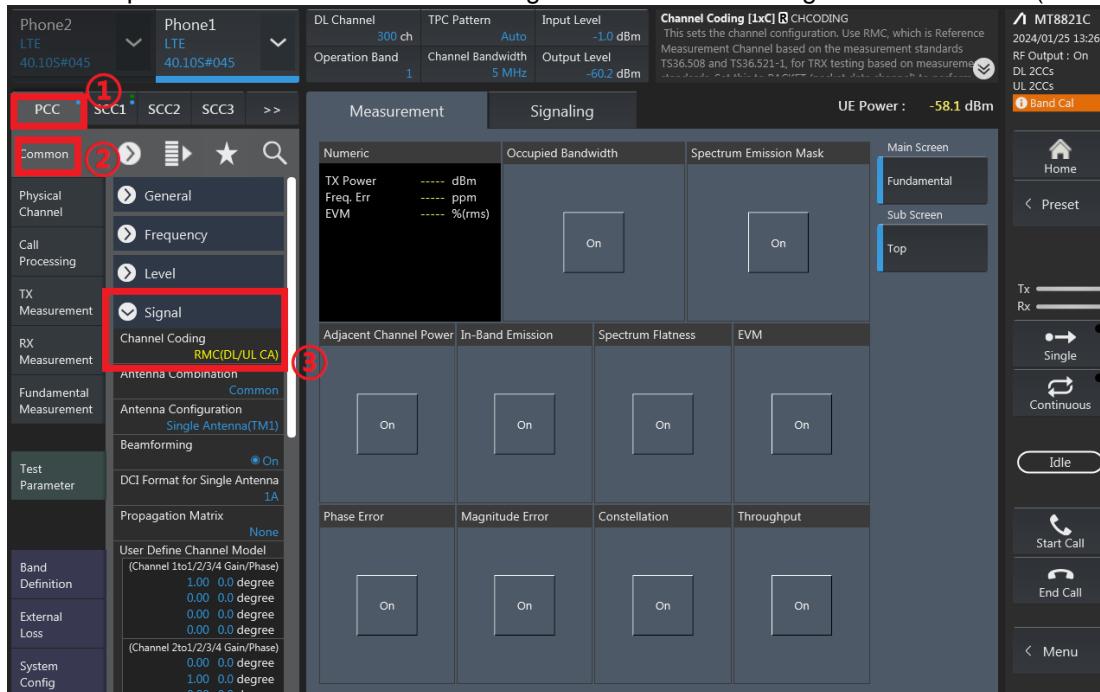


2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;

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;

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

DL Channel	TPC Pattern	Input Level	Modulation Analysis
39750 ch	All +3dB	30.0 dBm	MOD_MEAS This sets whether to perform modulation analysis.
Operation Band	Channel Bandwidth	Output Level	
41	20 MHz	-54.2 dBm	

Measurement **Signaling** UE Power : -15.2 dBm

Numeric **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**

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	TPC Pattern	Input Level	Modulation Analysis
39750 ch	All +3dB	30.0 dBm	MOD_MEAS This sets whether to perform modulation analysis.
Operation Band	Channel Bandwidth	Output Level	
41	20 MHz	-54.2 dBm	

Measurement **Signaling** UE Power : -15.5 dBm

Numeric **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**

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;

This screenshot shows the MT8821C software interface for configuring SCC1 parameters. The left sidebar lists various configuration tabs: PCC, SCC1, SCC2, SCC3, Common, Physical Channel, Band Definition, External Loss, and System Config. The SCC1 tab is selected, indicated by a red circle with the number 1. In the main measurement tab, the 'Occupied Bandwidth' section is active, showing 'Channel Bandwidth' set to 20 MHz (circled with 3) and 'Operation Band' set to 41 (circled with 2). The 'Channel' section shows 'Channel' as 39948 ch (circled with 4).

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

This screenshot shows the MT8821C software interface for configuring RB parameters for SCC1. The left sidebar lists various configuration tabs: PCC, SCC1, SCC2, SCC3, Common, Physical Channel, Band Definition, External Loss, and System Config. The SCC1 tab is selected, indicated by a red circle with the number 1. In the main measurement tab, the 'Occupied Bandwidth' section is active, showing 'Number of RB' set to 100 (circled with 2) and 'Starting RB' set to 0.



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

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

PCC SCC1 SCC2 SCC3 >>

Common

- Physical Channel
- Call Processing** (Step 1)
- TX Measurement
- RX Measurement
- Fundamental Measurement
- Test Parameter**
- Band Definition
- External Loss
- System Config

Measurement **Signaling**

Numeric

	Occupied Bandwidth	Spectrum Emission Mask	Main Screen
TX Power	dBm	On	Fundamental
PCC Freq, Err	ppm	On	Sub Screen
PCC EVM	%rms	On	Top
SCC1 Freq, Err	ppm	On	
SCC1 EVM	%rms	On	

Adjacent Channel Power **In-Band Emission** **Spectrum Flatness** **EVM**

Phase Error	Magnitude Error	Constellation	Throughput
On	On	On	On

Modulation Analysis MOD_MEAS

This sets whether to perform modulation analysis.

UE Power : -15.5 dBm

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

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

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

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

PCC SCC1 SCC2 SCC3 >>

Common

- Physical Channel
- Frequency** (Step 3)
- Level**
- Signal**
- UL RMC** (Step 4)
- 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 Disabled
- 256QAM Disabled
- DL RMC**
- TDD**

Measurement **Signaling**

Fundamental (Step 3) **Numeric**

Power Measurement (Step 4)

	Avg.	Max.	Min.
Total	22.38	22.38	22.38 dBm
PCC	21.85	21.85	21.85 dBm
	21.84	21.84	21.84 dBm
SCC-1	13.02	13.02	13.02 dBm
	13.02	13.02	13.02 dBm

Modulation Analysis MOD_MEAS

This tab is used to configure parameters of each Component Carrier on LTE-A. A Blue Dot in this tab indicates that the component carrier is configured.

UE Power : 21.3 dBm

MT8821C
2024/01/25 16:26
RF Output : On
DL 2CCs
UL 2CCs Cont.
 Band Cal

Home **Preset** **Measuring (UL CA Tx)...**
Tx **Rx**
Single **Continuous**
Connected (Step 2)
Start Call (Step 6)
End Call (Step 6)
Menu

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



Appendix F

Report No. : FA482618

Full Power		PCC							SCC			Power					
2CC		CA Configuration (BCS)	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	Configure		CA_12A-30A	Band 12	10M	707.5	23095	QPSK	1	0	Band 30	10M	2355	9820	23.06	23.14	
			CA_12A-48A	Band 12	10M	707.5	23095	QPSK	1	0	Band 48	20M	3690	56640	22.97	23.03	
			CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1	0	Band 66	20M	2155	66886	23.05	23.19	
			CA_13A-48A	Band 13	10M	782	23230	QPSK	1	0	Band 48	20M	3690	56640	22.93	23.06	
			CA_13A-66A	Band 13	10M	782	23230	QPSK	1	0	Band 66	20M	2155	66886	22.99	23.08	
			CA_14A-30A	Band 14	10M	793	23330	QPSK	1	0	Band 30	10M	2355	9820	22.93	23.04	
			CA_14A-66A	Band 14	10M	793	23330	QPSK	1	0	Band 66	20M	2155	66886	22.95	23.11	
			CA_25A-26A	Band 25	20M	1880	26340	QPSK	1	0	Band 26	15M	876.5	8865	23.17	23.23	
			CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	0	Band 41	20M	2593	40620	23.22	23.29	
			CA_25A-66A	Band 25	20M	1880	26340	QPSK	1	0	Band 66	20M	2155	66886	23.03	23.14	
			CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	23.14	23.25	
			CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	0	Band 12	10M	737.5	5095	23.20	23.21	
			CA_2A-13A	Band 2	20M	1880	18900	QPSK	1	0	Band 13	10M	751	5230	23.09	23.18	
			CA_2A-14A	Band 2	20M	1880	18900	QPSK	1	0	Band 14	10M	763	5330	23.13	23.19	
			CA_2A-17A	Band 2	20M	1880	18900	QPSK	1	0	Band 17	10M	740	5790	23.04	23.11	
			CA_2A-30A	Band 2	20M	1880	18900	QPSK	1	0	Band 30	10M	2355	9820	23.07	23.15	
			CA_2A-48A	Band 2	20M	1880	18900	QPSK	1	0	Band 48	20M	3690	56640	23.05	23.17	
			CA_2A-4A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	23.03	23.17	
			CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	23.07	23.19	
			CA_2A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	23.02	23.16	
			CA_2A-71A	Band 2	20M	1880	18900	QPSK	1	0	Band 71	20M	637	68786	23.05	23.20	
			CA_2A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	23.13	23.22	
			CA_30A-66A	Band 30	10M	2310	27710	QPSK	1	0	Band 66	20M	2155	66886	23.15	23.24	
			CA_41A-48A	Band 41	20M	2593	40620	QPSK	1	0	Band 48	20M	3690	56640	22.97	23.19	
			CA_48A-66A	Band 48	20M	3690	56640	QPSK	1	0	Band 66	20M	2155	66886	22.99	23.18	
			CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 12	10M	737.5	5095	23.08	23.17	
			CA_4A-13A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 13	10M	751	5230	23.06	23.05	
			CA_4A-17A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	23.06	23.15	
			CA_4A-30A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 30	10M	2355	9820	22.97	23.09	
			CA_4A-48A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 48	20M	3690	56640	22.99	23.02	
			CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	23.05	23.02	
			CA_4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 71	20M	637	68786	23.04	23.03	
			CA_4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	23.06	23.06	
			CA_5A-30A	Band 5	10M	836.5	20525	QPSK	1	0	Band 30	10M	2355	9820	23.02	23.06	
			CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	23.04	23.15	
			CA_5A-48A	Band 5	10M	836.5	20525	QPSK	1	0	Band 48	20M	3690	56640	23.00	23.11	
			CA_5A-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	23.05	23.14	
			CA_5A-7A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	23.04	23.02	
			CA_66A-71A	Band 66	20M	1745	132322	QPSK	1	0	Band 71	20M	637	68786	23.02	23.04	
			CA_7A-12A	Band 7	20M	2535	21100	QPSK	1	0	Band 12	10M	737.5	5095	23.09	23.13	
			CA_7A-13A	Band 7	20M	2535	21100	QPSK	1	0	Band 13	10M	751	5230	23.08	23.17	
			CA_7A-25A	Band 7	20M	2535	21100	QPSK	1	0	Band 25	20M	1960	8340	23.07	23.20	
			CA_7A-30A	Band 7	20M	2535	21100	QPSK	1	0	Band 30	10M	2355	9820	23.17	23.17	
			CA_7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	23.13	23.16	
			CA_7A-71A	Band 7	20M	2535	21100	QPSK	1	0	Band 71	20M	637	68786	23.13	23.20	
			CA_29A-30A	Band 30	10M	2310	27710	QPSK	1	0	Band 29	10M	9715	722.5	23.05	23.24	
			CA_29A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 29	10M	9715	722.5	22.98	23.04	
			CA_2A-29A	Band 2	20M	1880	18900	QPSK	1	0	Band 29	10M	9715	722.5	23.12	23.17	
			CA_4A-29A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 29	10M	9715	722.5	23.00	23.03	
			CA_7A-29A	Band 7	20M	2535	21100	QPSK	1	0	Band 29	10M	9715	722.5	23.11	23.20	
Intra-Band	Non-Contiguous	CA_25A-25A	Band 25	20M	1880	26340	QPSK	1	0	Band 25	5M	1992.5	8665	23.06	23.07		
		CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1932.5	625	23.09	23.18		
		CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	23.14	23.19		
		CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	23.05	23.14		
		CA_66A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	23.09	23.12		
		CA_7A-7A	Band 7	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193	23.05	23.20		
		CA_48A-48A	Band 48	20M	3560	55340	QPSK	1	0	Band 48	20M	3690	56640	22.95	23.03		
	Contiguous	CA_12B	Band 12	5M	703.8	23058	QPSK	1	0	Band 12	10M	741.00	5130	23.03	23.07		
		CA_2C	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.80	1098	23.09	23.16		
		CA_41C	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.80	40818	23.09	23.22		
		CA_48B	Band 48	15M	3607.5	55815	QPSK	1	0	Band 48	20M	3690.00	56640	22.86	22.93		
		CA_48C	Band 48	20M	3660	56340	QPSK	1	0	Band 48	20M	3679.80	56538	22.87	23.03		
		CA_5B	Band 5	10M	829	20450	QPSK	1	0	Band 5	5M	881.20	2522	22.96	23.07		
		CA_66B	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.30	66979	22.95	23.10		
		CA_66C	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.80	67084	23.00	23.09		
		CA_7B	Band 7	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.30	3193	23.10	23.23		
		CA_7C	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.80	3298	23.13	23.22		

UL CA

CA_5B_Ant 0												
Combination 10MHz+10MHz (50RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dBm)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset						
20450	20549	GPSK	1	0	0	0	1	0	FULL	22.90	24.00	
20450	20549	GPSK	1	0	0	0	1	0	FULL	22.90	24.00	
20600	20501	GPSK	1	1	0	0	1	1	0	22.92	24.00	
20450	20549	GPSK	1	0	0	0	1	0	EC02	22.90	24.00	
20575	20476	GPSK	1	0	0	0	1	0	EC02	22.96	24.00	
20600	20501	GPSK	1	1	0	0	1	0	EC02	22.92	24.00	
20450	20549	GPSK	1	0	0	0	1	0	EC02	22.92	24.00	
20450	20549	GPSK	1	0	0	0	1	0	EC03	20.97	22.00	
20575	20476	GPSK	1	0	0	0	1	0	EC03	20.99	22.00	
20600	20501	GPSK	1	1	0	0	1	0	EC03	20.99	22.00	
20450	20549	GPSK	1	1	0	0	1	0	EC03	22.90	24.00	
20450	20549	GPSK	1	1	0	0	1	0	EC06	22.90	24.00	
20575	20476	GPSK	1	0	0	0	1	0	EC06	22.96	24.00	
20600	20501	GPSK	1	0	0	0	1	0	EC06	22.92	24.00	
20450	20549	GPSK	1	0	0	0	1	0	EC07	20.97	22.00	
20575	20476	GPSK	1	0	0	0	1	0	EC07	20.99	22.00	
20600	20501	GPSK	1	1	0	0	1	0	EC07	20.92	22.00	
20450	20549	GPSK	1	1	0	0	1	0	EC07	20.92	21.20	
20575	20476	GPSK	1	1	0	0	1	0	EC07	20.92	21.20	
20600	20501	GPSK	1	1	0	0	1	0	EC07	20.93	21.20	

CA_5B_Ant 4												
Combination 10MHz+10MHz (50RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dBm)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset						
20450	20549	GPSK	1	0	0	0	1	0	FULL	22.92	24.00	
20450	20549	GPSK	1	0	0	0	1	0	FULL	22.81	24.00	
20600	20501	GPSK	1	1	0	0	1	1	0	22.81	24.00	
20450	20549	GPSK	1	0	0	0	1	0	EC02	21.13	22.20	
20575	20476	GPSK	1	0	0	0	1	0	EC02	21.15	22.20	
20600	20501	GPSK	1	1	0	0	1	1	0	EC02	21.07	22.20
20450	20549	GPSK	1	0	0	0	1	0	EC03	22.11	23.20	
20575	20476	GPSK	1	0	0	0	1	0	EC03	22.14	23.20	
20600	20501	GPSK	1	1	0	0	1	1	0	EC03	22.15	23.20
20450	20549	GPSK	1	1	0	0	1	1	0	EC06	22.92	24.00
20575	20476	GPSK	1	0	0	0	1	0	EC06	22.95	24.00	
20600	20501	GPSK	1	0	0	0	1	1	0	EC06	22.81	24.00
20450	20549	GPSK	1	0	0	0	1	1	0	EC07	19.97	21.20
20575	20476	GPSK	1	0	0	0	1	1	0	EC07	20.02	21.20
20600	20501	GPSK	1	1	0	0	1	1	0	EC07	20.03	21.20

CA_68B_Ant 0														
			Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)			
			RB Size	RB offset	RB Size	RB offset						FULL	22.79	24.00
132047	132140	QPSK	1	0	0	0	1	0	FULL	22.79	24.00			
132048	132140	QPSK	1	0	0	0	1	0	FULL	22.79	24.00			
132049	132140	QPSK	1	0	0	0	1	0	FULL	22.74	24.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 2	22.79	24.00			
132322	132415	QPSK	1	0	0	0	1	0	ECI 2	22.81	24.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 2	22.74	24.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 3	17.95	19.00			
132222	132415	QPSK	1	0	0	0	1	0	ECI 3	18.00	19.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 3	17.95	19.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 6	20.90	22.00			
132322	132415	QPSK	1	0	0	0	1	0	ECI 6	20.95	22.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 6	20.94	22.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 7	17.00	18.00			
132322	132415	QPSK	1	0	0	0	1	0	ECI 7	17.05	18.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 7	16.37	18.00			

CA_68B_Ant 4														
			Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)			
			RB Size	RB offset	RB Size	RB offset						FULL	22.72	24.00
132047	132140	QPSK	1	0	0	0	1	0	FULL	22.72	24.00			
132048	132140	QPSK	1	0	0	0	1	0	FULL	22.72	24.00			
132049	132140	QPSK	1	0	0	0	1	0	FULL	22.85	24.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 2	14.37	15.50			
132322	132415	QPSK	1	0	0	0	1	0	ECI 2	14.47	15.50			
132047	132140	QPSK	1	0	0	0	1	0	ECI 2	14.38	15.50			
132047	132140	QPSK	1	0	0	0	1	0	ECI 3	15.68	17.00			
132222	132415	QPSK	1	0	0	0	1	0	ECI 3	15.61	17.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 3	15.58	17.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 6	17.92	19.00			
132322	132415	QPSK	1	0	0	0	1	0	ECI 6	18.01	19.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 6	17.91	19.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 7	12.97	14.00			
132322	132415	QPSK	1	0	0	0	1	0	ECI 7	12.95	14.00			
132047	132140	QPSK	1	0	0	0	1	0	ECI 7	12.90	14.00			

CA_86C_Ant 0												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset						
132072	132270	QPSK	1	0	0	0	1	0	FULL	22.79	24.00	
132072	132270	QPSK	1	0	0	0	1	0	FULL	22.78	24.00	
132072	132374	QPSK	1	1	0	0	1	0	FULL	22.85	24.00	
132072	132270	QPSK	1	0	0	0	1	0	ECI 2	22.79	24.00	
132322	132620	QPSK	1	0	0	0	1	0	ECI 2	22.93	24.00	
132572	132374	QPSK	1	0	0	0	1	0	ECI 2	22.85	24.00	
132072	132270	QPSK	1	0	0	0	1	0	ECI 3	17.96	19.00	
132072	132270	QPSK	1	0	0	0	1	0	ECI 3	18.02	19.00	
132072	132270	QPSK	1	0	0	0	1	0	ECI 3	17.94	19.00	
132072	132270	QPSK	1	0	0	0	1	0	ECI 6	20.95	22.00	
132322	132620	QPSK	1	0	0	0	1	0	ECI 6	20.97	22.00	
132572	132374	QPSK	1	0	0	0	1	0	ECI 6	20.89	22.00	
132072	132270	QPSK	1	0	0	0	1	0	ECI 7	18.99	18.00	
132322	132620	QPSK	1	0	0	0	1	0	ECI 7	17.03	18.00	
132572	132374	QPSK	1	1	0	0	1	1	0	ECI 7	17.03	18.00

CA_86C_Ant 4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	1	0	0	1	0	FULL	22.78	24.00
132072	132270	QPSK	1	1	0	0	1	0	FULL	22.80	24.00
132072	132270	QPSK	1	1	0	0	1	0	ECI 2	14.40	15.50
132322	132620	QPSK	1	1	0	0	1	0	ECI 2	14.49	15.50
132572	132274	QPSK	1	1	0	0	1	0	ECI 2	14.48	15.50
132072	132270	QPSK	1	1	0	0	1	0	ECI 3	15.86	17.00
132072	132270	QPSK	1	1	0	0	1	0	ECI 3	15.85	17.00
132072	132270	QPSK	1	1	0	0	1	0	ECI 3	15.81	17.00
132072	132270	QPSK	1	1	0	0	1	0	ECI 6	17.90	19.00
132322	132620	QPSK	1	1	0	0	1	0	ECI 6	18.04	19.00
132572	132374	QPSK	1	1	0	0	1	0	ECI 6	17.98	19.00
132072	132270	QPSK	1	1	0	0	1	0	ECI 7	12.56	14.00
132322	132620	QPSK	1	1	0	0	1	0	ECI 7	12.58	14.00
132572	132274	QPSK	1	1	0	0	1	0	ECI 7	12.57	14.00

CA_4T_4C_Art_1												
Combination 20MHz+20MHz (100RB*100RB)												
PCO Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset						
39790	39988	DPSK	1	0	0	0	1	0	FULL	22.99	24.00	
39750	39948	DPSK	1	0	0	0	1	0	FULL	22.92	24.00	
40185	40383	DPSK	1	0	0	0	1	0	FULL	22.92	24.00	
40620	40818	DPSK	1	0	0	0	1	0	FULL	23.05	24.00	
41055	41253	DPSK	1	0	0	0	1	0	FULL	22.99	24.00	
41490	41292	DPSK	1	0	0	0	1	0	FULL	23.03	24.00	
39790	39988	DPSK	1	0	0	0	1	0	EOC 2	22.90	24.00	
39750	39948	DPSK	1	0	0	0	1	0	EOC 2	22.92	24.00	
40185	40383	DPSK	1	0	0	0	1	0	EOC 2	22.93	24.00	
40620	40818	DPSK	1	0	0	0	1	0	EOC 2	23.05	24.00	
41055	41253	DPSK	1	0	0	0	1	0	EOC 2	22.99	24.00	
41490	41292	DPSK	1	0	0	0	1	0	EOC 2	23.03	24.00	
39790	39988	DPSK	1	0	0	0	1	0	EOC 3	20.06	21.40	
39750	39948	DPSK	1	0	0	0	1	0	EOC 3	20.07	21.40	
40185	40383	DPSK	1	0	0	0	1	0	EOC 3	20.04	21.40	
40620	40818	DPSK	1	0	0	0	1	0	EOC 3	20.13	21.40	
41055	41253	DPSK	1	0	0	0	1	0	EOC 3	20.08	21.40	
41490	41292	DPSK	1	0	0	0	1	0	EOC 3	20.10	21.40	
39790	39988	DPSK	1	0	0	0	1	0	EOC 6	22.37	23.90	
39750	39948	DPSK	1	0	0	0	1	0	EOC 6	22.39	23.90	
40185	40383	DPSK	1	0	0	0	1	0	EOC 6	22.36	23.90	
40620	40818	DPSK	1	0	0	0	1	0	EOC 6	22.51	23.90	
41055	41253	DPSK	1	0	0	0	1	0	EOC 6	22.50	23.90	
41490	41292	DPSK	1	0	0	0	1	0	EOC 6	22.45	23.90	
39790	39988	DPSK	1	0	0	0	1	0	EOC 7	20.10	21.40	
39750	39948	DPSK	1	0	0	0	1	0	EOC 7	20.12	21.40	
40185	40383	DPSK	1	0	0	0	1	0	EOC 7	20.02	21.40	
40620	40818	DPSK	1	0	0	0	1	0	EOC 7	20.13	21.40	
41055	41253	DPSK	1	0	0	0	1	0	EOC 7	20.10	21.40	
41490	41292	DPSK	1	0	0	0	1	0	EOC 7	20.07	21.40	

CA_41C_PHUE_Art 1												
Combination 20MHz+20MHz (100RB+100RB)												
PCI Channel	SCC Channel	Modulation	PCC			SCC			Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	RB Size	RB offset				
39790	39988	QPSK	1	0	0	0	0	1	0	FULL	25.77	27.00
39790	39948	QPSK	1	0	0	0	0	1	0	FULL	25.80	27.00
40185	40383	QPSK	1	0	0	0	0	1	0	FULL	25.81	27.00
40620	40818	QPSK	1	0	0	0	0	1	0	FULL	25.91	27.00
41055	41253	QPSK	1	0	0	0	0	1	0	FULL	25.76	27.00
41490	41292	QPSK	1	0	0	0	0	1	0	FULL	25.82	27.00
39790	39988	QPSK	1	0	0	0	0	1	0	ECI 2	25.77	27.00
39790	39988	QPSK	1	0	0	0	0	1	0	ECI 2	25.80	27.00
40185	40383	QPSK	1	0	0	0	0	1	0	ECI 2	25.81	27.00
40620	40818	QPSK	1	0	0	0	0	1	0	ECI 2	25.91	27.00
41055	41253	QPSK	1	0	0	0	0	1	0	ECI 2	25.76	27.00
41490	41292	QPSK	1	0	0	0	0	1	0	ECI 2	25.82	27.00
39790	39988	QPSK	1	0	0	0	0	1	0	ECI 3	21.35	23.00
39790	39988	QPSK	1	0	0	0	0	1	0	ECI 3	21.34	23.00
40185	40383	QPSK	1	0	0	0	0	1	0	ECI 3	21.34	23.00
40620	40818	QPSK	1	0	0	0	0	1	0	ECI 3	21.49	23.00
41055	41253	QPSK	1	0	0	0	0	1	0	ECI 3	21.48	23.00
41490	41292	QPSK	1	0	0	0	0	1	0	ECI 3	21.36	23.00
39790	39988	QPSK	1	0	0	0	0	1	0	ECI 6	23.74	25.50
39790	39988	QPSK	1	0	0	0	0	1	0	ECI 6	23.82	25.50
40185	40383	QPSK	1	0	0	0	0	1	0	ECI 6	23.74	25.50
40620	40818	QPSK	1	0	0	0	0	1	0	ECI 6	23.86	25.50
41055	41253	QPSK	1	0	0	0	0	1	0	ECI 6	23.76	25.50
41490	41292	QPSK	1	0	0	0	0	1	0	ECI 6	23.76	25.50
39790	39988	QPSK	1	0	0	0	0	1	0	ECI 7	21.35	23.00
39790	39988	QPSK	1	0	0	0	0	1	0	ECI 7	21.44	23.00
40185	40383	QPSK	1	0	0	0	0	1	0	ECI 7	21.47	23.00
40620	40818	QPSK	1	0	0	0	0	1	0	ECI 7	21.39	23.00
41055	41253	QPSK	1	0	0	0	0	1	0	ECI 7	21.36	23.00
41490	41292	QPSK	1	0	0	0	0	1	0	ECI 7	21.43	23.00

CA_48B For FCC_Ant 5 Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC			SCC			Total RB Size	Target MPR Level (dBm)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	RB Size	RB offset					
55290	55389	QPSK	1	0	0	0	1	0	FULL	22.39	24.00	22.39	24.00
55290	56264	QPSK	1	0	0	0	1	0	FULL	22.40	24.00	22.40	24.00
56165	56264	QPSK	1	0	0	0	1	0	FULL	22.43	24.00	22.43	24.00
56690	56591	QPSK	1	0	0	0	1	0	FULL	22.44	24.00	22.44	24.00
55290	55389	QPSK	1	0	0	0	1	0	ECI2	15.92	17.50	15.92	17.50
55815	55914	QPSK	1	0	0	0	1	0	ECI2	16.04	17.50	16.04	17.50
56165	56264	QPSK	1	0	0	0	1	0	ECI2	16.03	17.50	16.03	17.50
55290	56264	QPSK	1	0	0	0	1	0	ECI2	15.91	17.50	15.91	17.50
55290	55389	QPSK	1	0	0	0	1	0	ECI3	15.40	17.00	15.40	17.00
55815	55914	QPSK	1	0	0	0	1	0	ECI3	15.53	17.00	15.53	17.00
56165	56264	QPSK	1	0	0	0	1	0	ECI3	15.46	17.00	15.46	17.00
56690	56591	QPSK	1	0	0	0	1	0	ECI3	15.52	17.00	15.52	17.00
55389	55914	QPSK	1	0	0	0	1	0	ECI6	21.05	22.50	21.05	22.50
55815	55914	QPSK	1	0	0	0	1	0	ECI6	21.14	22.50	21.14	22.50
56165	56264	QPSK	1	0	0	0	1	0	ECI6	21.06	22.50	21.06	22.50
56690	56591	QPSK	1	0	0	0	1	0	ECI6	21.00	22.50	21.00	22.50
55290	55389	QPSK	1	0	0	0	1	0	ECI7	14.38	16.00	14.38	16.00
55815	55914	QPSK	1	0	0	0	1	0	ECI7	14.43	16.00	14.43	16.00
56165	56264	QPSK	1	0	0	0	1	0	ECI7	14.38	16.00	14.38	16.00
56690	56591	QPSK	1	0	0	0	1	0	ECI7	14.38	16.00	14.38	16.00

CA_48C For FCC_Ant 5 Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC			SCC			Total RB Size	Target MPR Level (dBm)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	RB Size	RB offset					
55340	55358	QPSK	1	0	0	0	1	0	FULL	22.65	24.00	22.65	24.00
55290	56264	QPSK	1	0	0	0	1	0	FULL	22.66	24.00	22.66	24.00
56165	56348	QPSK	1	0	0	0	1	0	FULL	22.71	24.00	22.71	24.00
56690	56442	QPSK	1	0	0	0	1	0	FULL	22.71	24.00	22.71	24.00
55340	55358	QPSK	1	0	0	0	1	0	ECI2	16.04	17.50	16.04	17.50
55815	56268	QPSK	1	0	0	0	1	0	ECI2	16.12	17.50	16.12	17.50
56165	56348	QPSK	1	0	0	0	1	0	ECI2	16.05	17.50	16.05	17.50
55290	56268	QPSK	1	0	0	0	1	0	ECI2	16.09	17.50	16.09	17.50
55815	55914	QPSK	1	0	0	0	1	0	ECI3	15.89	17.00	15.89	17.00
56165	56348	QPSK	1	0	0	0	1	0	ECI3	15.65	17.00	15.65	17.00
56690	56442	QPSK	1	0	0	0	1	0	ECI3	15.67	17.00	15.67	17.00
55340	55358	QPSK	1	0	0	0	1	0	ECI6	21.04	22.50	21.04	22.50
55815	55914	QPSK	1	0	0	0	1	0	ECI6	21.13	22.50	21.13	22.50
56165	56348	QPSK	1	0	0	0	1	0	ECI6	16.11	22.50	16.11	22.50
55340	55358	QPSK	1	0	0	0	1	0	ECI7	14.61	16.00	14.61	16.00
55815	56268	QPSK	1	0	0	0	1	0	ECI7	14.72	16.00	14.72	16.00
56165	56348	QPSK	1	0	0	0	1	0	ECI7	14.68	16.00	14.68	16.00
56690	56442	QPSK	1	0	0	0	1	0	ECI7	14.69	16.00	14.69	16.00