

LTE Downlink Carrier Aggregation configurations (Continued)

3. DL Inter Band(4CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregated BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
13A-48A-66B	(0)	Band 13			Yes	Yes			50
		Band 48			Yes	Yes	Yes	Yes	
		Band 66	66B BCS 0						
13A-48A-66C	(0)	Band 13			Yes	Yes			70
		Band 48			Yes	Yes	Yes	Yes	
		Band 66	66C BCS 0						
13A-48C-66A	(0)	Band 13			Yes	Yes			70
		Band 48	48C BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
13A-48D	(0)	Band 13			Yes	Yes			70
		Band 48	48D BCS 0						
14A-30A-66A-66A	(0)	Band 14			Yes	Yes			60
		Band 30			Yes	Yes			
		Band 66	66A-66A BCS 0						
25A-41D	(0)	Band 25			Yes	Yes	Yes	Yes	80
		Band 41	41D BCS 0						
29A-30A-66A-66A	(0)	Band 29			Yes	Yes			60
		Band 30			Yes	Yes			
		Band 66	66A-66A BCS 0						
48A-48A-66A-66A	(0)	Band 48	48A-48C BCS 0						80
		Band 66	66A-66A BCS 0						
48A-48C-66A	(0)	Band 48	48A-48C BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
48C-66A-66A	(0)	Band 48	48C BCS 0						80
		Band 66	66A-66A BCS 0						
48C-66B	(0)	Band 48	48C BCS 0						60
		Band 66	66B BCS 0						
48C-66C	(0)	Band 48	48C BCS 0						60
		Band 66	66C BCS 0						

4. DL Inter Band(5CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregate BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
2A-13A-48C-66A	(0)	Band 2			Yes	Yes	Yes	Yes	90
		Band 13			Yes	Yes			
		Band 48	48C BCS 0						
2A-13A-48D	(0)	Band 66			Yes	Yes	Yes	Yes	90
		Band 2			Yes	Yes	Yes	Yes	
		Band 13			Yes	Yes			
2A-14A-30A-66A-66A	(0)	Band 48	48D BCS 0						80
		Band 2			Yes	Yes	Yes	Yes	
		Band 14			Yes	Yes			
2A-48A-48C-66A	(0)	Band 30			Yes	Yes			100
		Band 66	66A-66A BCS 0						
		Band 2	Yes		Yes	Yes	Yes	Yes	
2A-48C-48C	(0)	Band 48	48A-48C BCS 0						100
		Band 66			Yes	Yes	Yes	Yes	
		Band 2			Yes	Yes	Yes	Yes	
2A-48C-66A-66A	(0)	Band 48	48C-48C BCS 0						100
		Band 2	Yes	Yes	Yes	Yes	Yes	Yes	
		Band 48	48C BCS 0						
2A-48D-66A	(0)	Band 66			Yes	Yes	Yes	Yes	100
		Band 2			Yes	Yes	Yes	Yes	
		Band 48	48D BCS 0						
2A-48E	(0)	Band 66			Yes	Yes	Yes	Yes	100
		Band 2			Yes	Yes	Yes	Yes	
		Band 48	48E BCS 0						
4A-48E	(0)	Band 2			Yes	Yes			100
		Band 48	48E BCS 0						
		Band 2			Yes	Yes			
5A-48C-66A-66A	(0)	Band 48	48C BCS 0						90
		Band 66	66A-66A BCS 0						
		Band 5			Yes	Yes			
5A-48D-66A	(0)	Band 48	48D BCS 0						90
		Band 66	Yes	Yes	Yes	Yes	Yes	Yes	
		Band 13			Yes	Yes			
13A-48D-66A	(0)	Band 48	48D BCS 0						90
		Band 66			Yes	Yes	Yes	Yes	
		Band 13			Yes	Yes			
13A-48E	(0)	Band 48	48E BCS 0						90
		Band 2			Yes	Yes	Yes	Yes	
		Band 13			Yes	Yes			
48C-48C-66A	(0)	Band 48	48C-48C BCS 0						100
		Band 66			Yes	Yes	Yes	Yes	
		Band 2			Yes	Yes	Yes	Yes	
48A-48D-66A	(0)	Band 48	48A-48D BCS 0						100
		Band 66			Yes	Yes	Yes	Yes	
		Band 2			Yes	Yes	Yes	Yes	
48E-66A	(0)	Band 48	48E BCS 0						100
		Band 66			Yes	Yes	Yes	Yes	
		Band 2			Yes	Yes	Yes	Yes	

5. DL Inter Band(6CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregated BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
2A-5A-48C-66A-66A	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	Yes	110
		Band 5			Yes	Yes			
		Band 48	48C BCS 0						
		Band 66	66A-66A BCS 0						
2A-48E-66A	(0)	Band 2			Yes	Yes	Yes	Yes	120
		Band 48	48E BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
5A-48D-66A-66A	(0)	Band 5			Yes	Yes			110
		Band 48	48D BCS 0						
		Band 66	66A-66A BCS 0						
13A-48E-66A	(0)	Band 13			Yes	Yes			110
		Band 48	48E BCS 0						
		Band 66			Yes	Yes	Yes	Yes	

LTE Uplink / Downlink Carrier Aggregation Intra-band configurations

6. DL Intra Band(non-contiguous)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Allowed Channel BW Per Carrier (MHz)				Max Aggregated BW
			1st Carrier	2nd Carrier	3rd Carrier	4th Carrier	
2A-2A	(0)	Band 2	5, 10, 15, 20	5, 10, 15, 20			40
4A-4A	(0)	Band 4	5, 10, 15, 20	5, 10, 15, 20			40
	(1)	Band 4	5, 10	5, 10			20
25A-25A	(0)	Band 25	5, 10	5, 10			20
	(1)	Band 25	5, 10, 15, 20	5, 10, 15, 20			40
66A-66A	(0)	Band 66	5, 10, 15, 20	5, 10, 15, 20			40
41A-41A	(0)	Band 41	10, 15, 20	10, 15, 20			40
	(1)	Band 41	5, 10, 15, 20	5, 10, 15, 20			40
48A-48A	(0)	Band 48	5, 10, 15, 20	5, 10, 15, 20			40
41A-41C	(0)	Band 41	5, 10, 15, 20	41C BCS 1			60
			41C BCS 1	5, 10, 15, 20			
48A-48C	(0)	Band 48	5, 10, 15, 20	48C BCS 0			60
			48C BCS 0	5, 10, 15, 20			
48A-48D	(0)	Band 48	5, 10, 15, 20	48D BCS 0			80
			48D BCS 0	5, 10, 15, 20			
48A-48E	(0)	Band 48	5, 10, 15, 20	48E BCS 0			100
			48E BCS 0	5, 10, 15, 20			
48C-48D	(0)	Band 48	48C BCS 0	48D BCS 0			100
			48D BCS 0	48C BCS 0			

7. DL Intra Band(contiguous)

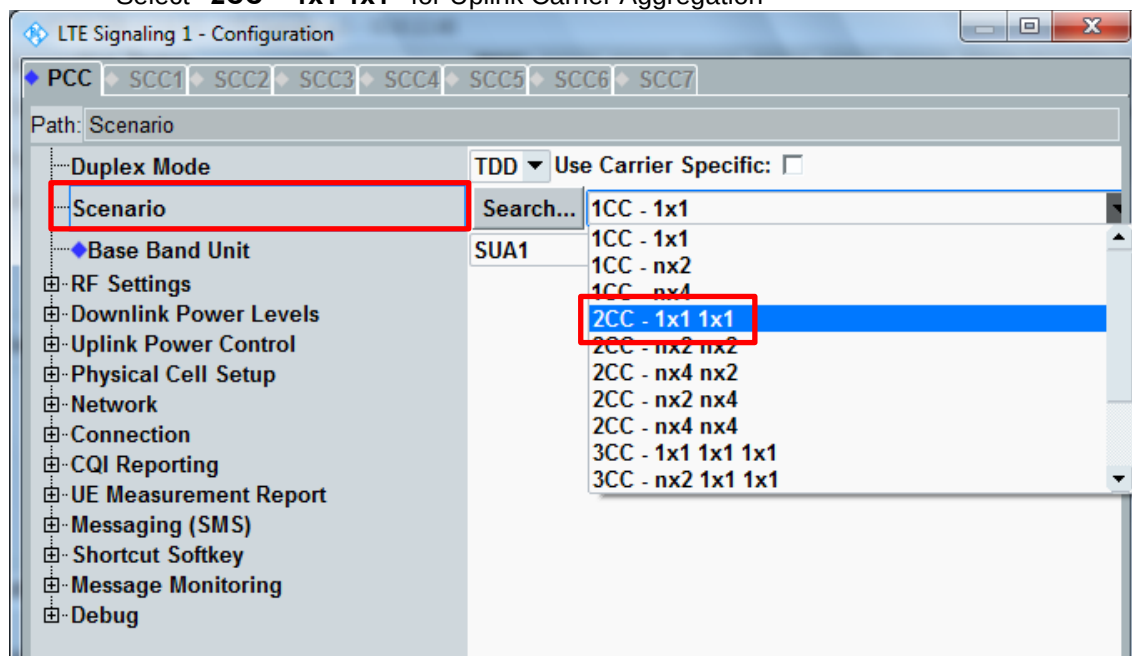
E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Allowed Channel BW Per Carrier (MHz)					Max Aggregated BW
			1st Carrier	2nd Carrier	3rd Carrier	4th Carrier	5th Carrier	
2C	(0)	Band 2	5	20				40
			10	15,20				
			15	10,15,20				
			20	5,10,15,20				
12B	(0)	Band 12	5, 10	5				15
41C	(0)	Band 41	10	20				40
			15	15, 20				
			20	10, 15, 20				
			5, 10	20				
	(1)	Band 41	15	15, 20				40
			20	5, 10, 15, 20				
			10	15, 20				
			15	10, 15, 20				
	(2)	Band 41	20	10, 15, 20				40
			10	20				
			20	20				
			5	5, 10, 15				
66B	(0)	Band 66	10	5, 10				20
			15	5				
			5	20				
66C	(0)	Band 66	10	15,20				40
			15	10,15,20				
			20	5,10,15,20				
			5	20				
			10	15,20				
2C	(0)	Band 2	5	20				40
			10	15,20				
			15	10,15,20				
			20	5,10,15,20				
48B	(0)	Band 48	10	10				20
48C	(0)	Band 48	5, 10, 15, 20	20				40
			20	5, 10, 15				
41D	(0)	Band 41	10	20	15			60
			10	15, 20	20			
			15	20	10, 15			
			15	10, 15, 20	20			
			20	15, 20	10			
			20	10, 15, 20	15, 20			
			5, 10, 15, 20	20	20			
			20	20	5,10,15			
48D	(0)	Band 48	5, 10, 15, 20	20	20			60
48E	(0)	Band 48	5, 10, 15, 20	20	20	20		80
			20	20	20	5, 10, 15		

Note:

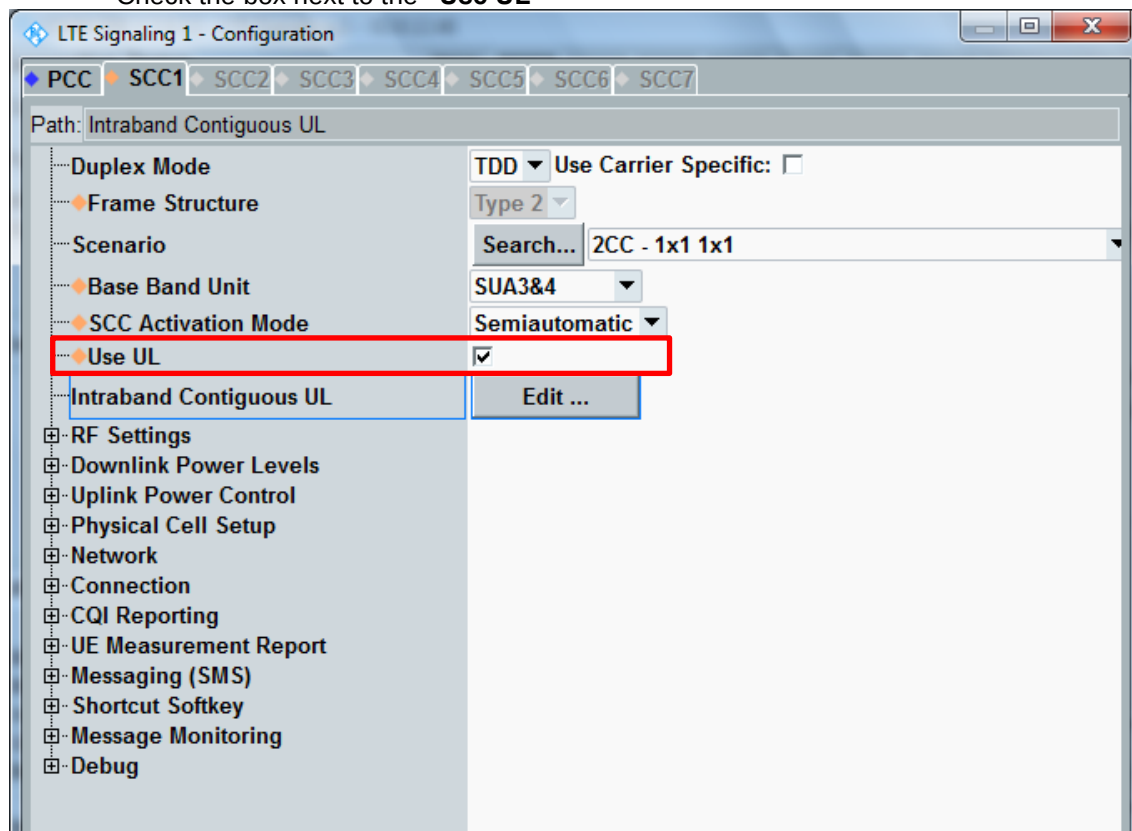
LTE CA_41C, 48C, 66B, 66C are supported in both Uplink and Downlink, other CA configurations are supported only Downlink

LTE Uplink Carrier Aggregation – Output Power measurement procedures

- Change the Scenario in the Configuration of LTE Signaling
Select **“2CC – 1x1 1x1”** for Uplink Carrier Aggregation



- Check the box next to the **“Use UL”**



- Back to the LTE Signal screen, and then select the PCC tab,
Set operating band, BW, channel and RB configurations for PCC

The screenshot shows the 'LTE Signaling 1' interface with the 'PCC' tab selected. The 'Connection Status' section on the left shows 'Cell' as 'ON', 'Packet Switched' as 'ON', 'RRC State' as 'Idle', and 'SCC1 State' as 'OFF'. The 'Event Log' shows a sequence of events from 06:13:39 to 06:13:20. The 'UE Info' section shows fields for IMEI, IMSI, Voice Domain Pr..., UE's Usage Setti..., Default Bearer, and Dedicated Bearer. The main configuration area shows the following settings:

Parameter	Value
Operating Band	Band 41
Channel	40620 Ch
Frequency	2593.0 MHz
Cell Bandwidth	20.0 MHz
RS EPRE	-85.0 dBm/15kHz
Full Cell BW Pow.	-54.2 dBm
PUSCH Open Loop Nom.Power	23 dBm
PUSCH Closed Loop Target Power	24.0 dBm
Sched.	User def. Channels
# RB	100
Start RB	0
Mod / TBSI	QPSK 5
Code Rate / TBS	0.328 8760 0.583 144
Throughput	3.478 Mbit/s 0.057 Mbit/s

The 'LTE Signaling' status is 'ON'.

- Select the SCC1 tab,
Set operating band, BW, channel, and RB configurations for SCC1

The screenshot shows the 'LTE Signaling 1' interface with the 'SCC1' tab selected. The 'Connection Status' section on the left shows 'Cell' as 'ON', 'Packet Switched' as 'ON', 'RRC State' as 'Idle', and 'SCC1 State' as 'OFF'. The 'Event Log' shows a sequence of events from 06:13:39 to 06:13:20. The 'UE Info' section shows fields for IMEI, IMSI, Voice Domain ..., UE's Usage S..., Default Bearer, and Dedicated Be... The main configuration area shows the following settings:

Parameter	Value
Operating Band	Band 41
Channel	40818 Ch
Frequency	2612.8 MHz
Cell Bandwidth	20.0 MHz
RS EPRE	-85.0 dBm/15kHz
Full Cell BW Pow.	-54.2 dBm
PUSCH Open Loop Nom.Power	23 dBm
PUSCH Closed Loop Target Power	24.0 dBm
Sched.	User def. Channels
# RB	100
Start RB	0
Mod / TBSI	QPSK 5
Code Rate / TBS	0.328 8760 0.583 144
Throughput	3.478 Mbit/s 0.057 Mbit/s

The 'LTE Signaling' status is 'ON'.

- Click the **“Connect”** button at the bottom of the screen, if necessary, turn the Airplane mode on/off in the DUT

CMW 500 V 3.8.12 - LTE Signaling 1 - X3.8.12.48

Connection Status		PCC	SCC1	SCC2	SCC3	SCC4	SCC5	SCC6	SCC7
Cell		Operating Band Band 41 TDD							
Packet Switch...	Connection Established	Downlink Uplink							
RRC State	Connected	Channel 40818 Ch 40818 Ch							
SCC1 State	MAC Activated	Frequency 2612.8 MHz 2612.8 MHz							
		Cell Bandwidth 20.0 MHz 20.0 MHz							
		RS EPRE -85.0 dBm/15kHz							
		Full Cell BW Pow. -54.2 dBm							
		PUSCH Open Loop Norm.Power 23 dBm							
		PUSCH Closed Loop Target Power 24.0 dBm							
		PCC <-> SCC1 Swap							
		PCC -> SCC1 Copy							
		Sched. User def. Channels Multicenter UL							
		64/256-QAM							
		Downlink Multicenter Uplink							
		# RB 100 1							
		Start RB 0 0							
		Mod / TBSI QPSK 5 QPSK 10							
		Code Rate / TBS 0.328 8760 0.583 144							
		Throughput 3.478 Mbit/s 0.057 Mbit/s							
Event Log									
06:16:44 State 'Connection Established'									
06:16:44 EPS Dedicated Bearer Establish									
06:16:43 SCC1: MAC Activated									
06:16:41 SCC1: RRC Added									
06:16:41 SCC1: On									
06:16:30 SCC1: Off									
UE Info									
IMEI 355346630026654									
IMSI 001010123456063									
Voice Domain ... IMS PS Voice preferred CS									
UE's Usage S... Data centric									
Default Bearer IPv4 address IPv6 prefix									
5 (cmw50... 192.168.48.129									
Dedicated Be... TFT Port Range DL / UL									
6 (->5, Def... 5005 - 5008 / 5005 - 5008									
Detach		Disconnect							
SCC1 Off		Send SMS							
Inter/Intra-RAT ...		Config ...							

LTE 1 TX Meas.

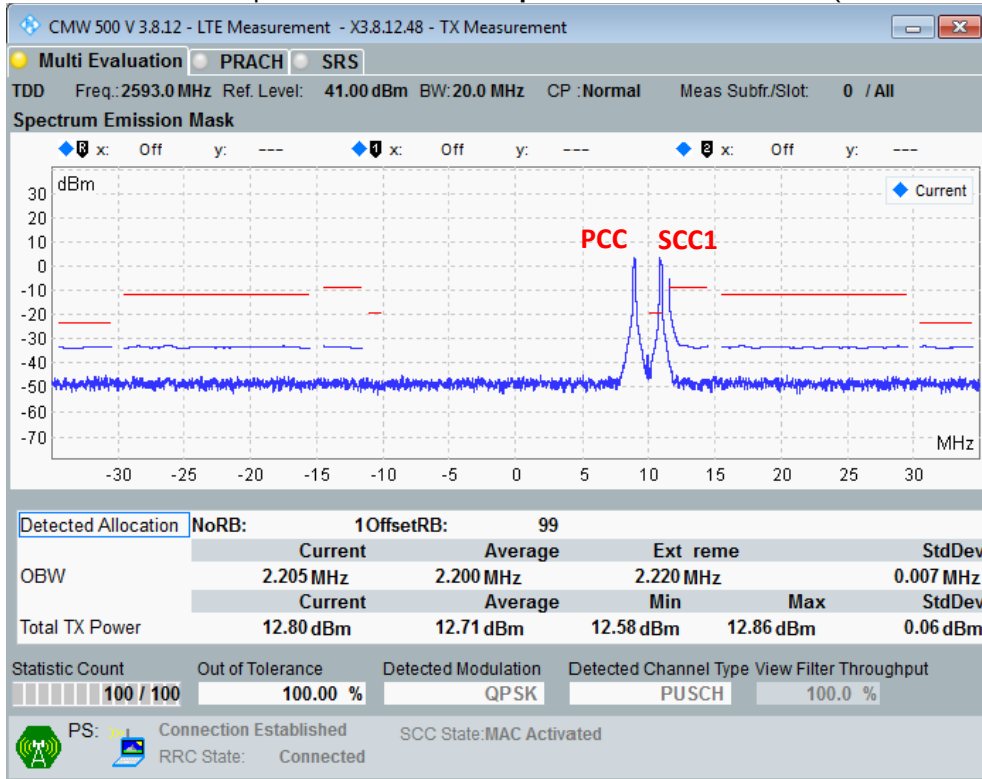
LTE 1 RX Meas.

Go to...

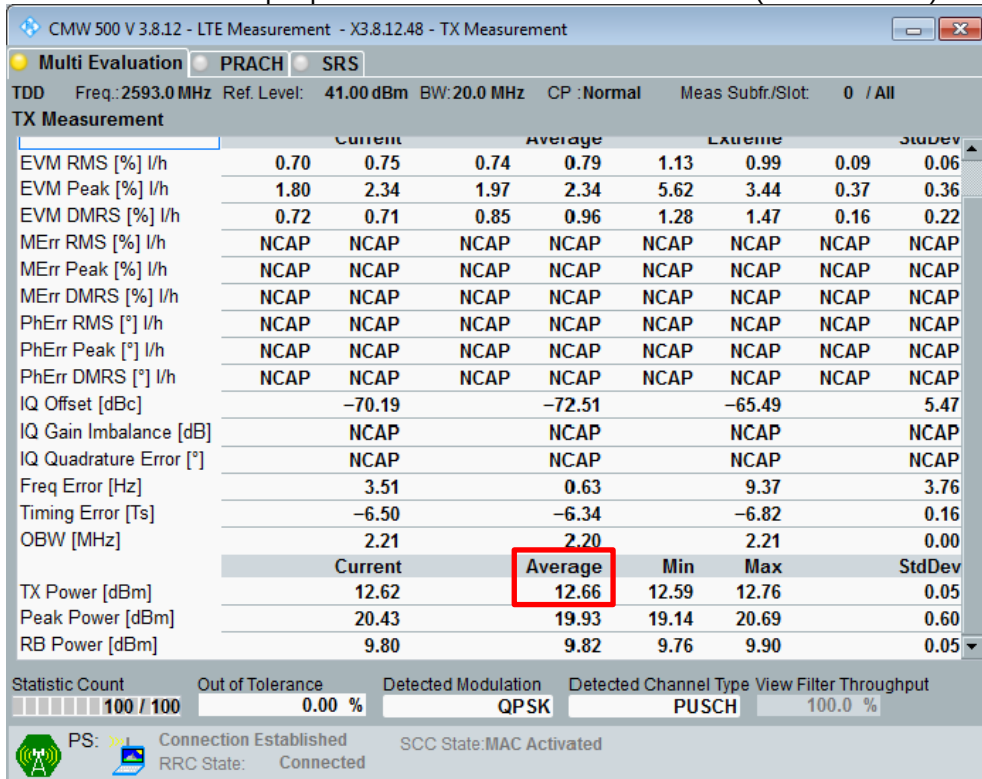
Routing

LTE Signaling ON

- Check the spectrum of UL CA in **Spectrum Emission Mask** (LTE Tx Meas.)

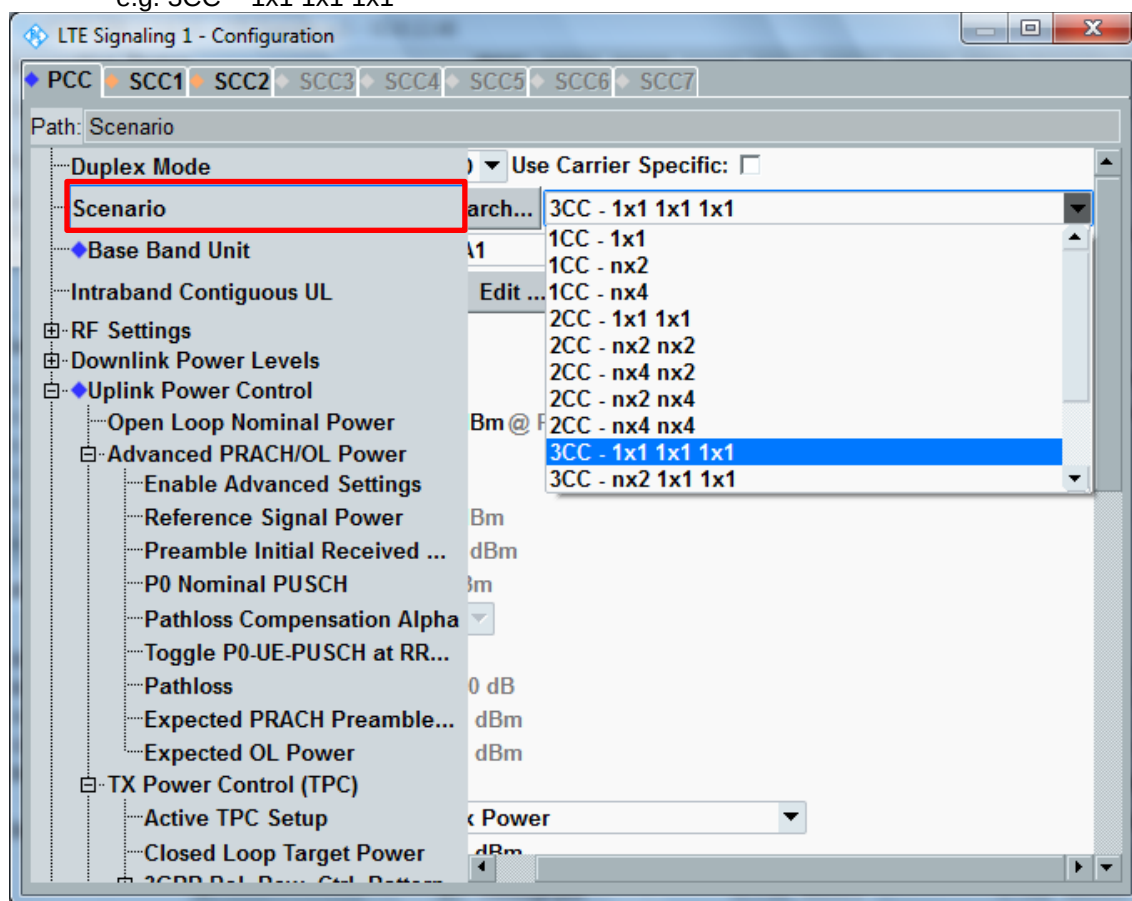


- Read the output power of UL CA in **TX Measurement** (LTE Tx Meas.)

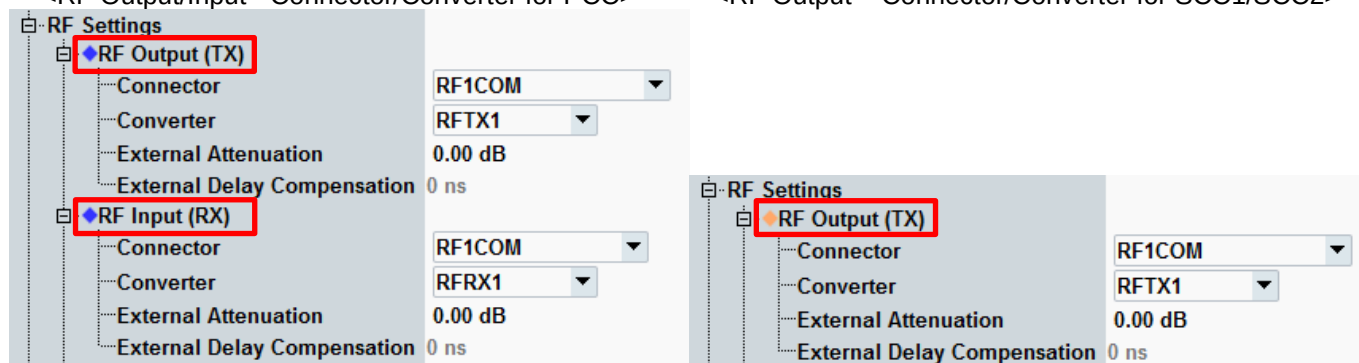


LTE Downlink Carrier Aggregation - Output Power measurement procedures

- Change the Scenario in the Configuration of LTE Signaling
e.g. 3CC – 1x1 1x1 1x1



- Set the RF Output/Input Connector and Converter for PCC/SCC1/SCC2 in each tab.
<RF Output/Input - Connector/Converter for PCC> <RF Output – Connector/Converter for SCC1/SCC2>



- Back to the LTE Signal screen, and then select the PCC tab,
Set operating band, BW, channel and RB configurations for PCC

CMW 500 V 3.8.12 - LTE Signaling 1 - X3.8.12.48

Connection Status

Cell:  Connection Established

RRC State: Connected
 SCC1 State: OFF
 SCC2 State: OFF

Event Log

06:36:17 SCC2: Off
 06:36:17 SCC2: On
 06:36:17 SCC2: RRC Added
 06:36:16 SCC1: Off
 06:36:16 SCC1: On
 06:36:16 SCC1: RRC Added
 06:36:12 SCC2: MAC Activated

UE Info

IMEI: 355346630026654
 IMSI: 001010123456063
 Voice Domain Pr...: IMS PS Voice preferred CS Voi
 UE's Usage Setti...: Data centric
 Default Bearer: IPv4 address IPv6 prefix
 ...5 (cmw500.r...: 192.168.48.129
 Dedicated Bearer: TFT Port Range DL / UL
 ...6 (->5, Default): 5005 - 5008 / 5005 - 5008

PCC | SCC1 | SCC2 | SCC3 | SCC4 | SCC5 | SCC6 | SCC7

Operating Band: Band 66 FDD

Channel: 67036 Ch 132572 Ch
 Frequency: 2170.0 MHz 1770.0 MHz
 Cell Bandwidth: 20.0 MHz 20.0 MHz
 RS EPRE: -85.0 dBm/15kHz
 Full Cell BW Pow.: -54.2 dBm
 PUSCH Open Loop Nom.Power: 23 dBm
 PUSCH Closed Loop Target Power: 24.0 dBm

Sched. User def. Channels

RB: 100 1
 Start RB: 0 0
 Mod / TBSI: QPSK 5 QPSK 10
 Code Rate / TBS: 0.330 8760 0.583 144
 Throughput: 8.734 Mbit/s 0.144 Mbit/s

Downlink Multicenter Uplink Multicenter

64/256-QAM

LTE

LTE 1 TX Meas.
 LTE 1 RX Meas.
 Go to...
 Routing

LTE Signaling
 ON

Detach Disconnect SCC1 activate MAC Multiple SCC Actions Send SMS Inter/Intra-RAT ... Config ...

- Select the SCC1/SCC2 tab, set operating band, BW, channel and RB configurations for SCC1/SCC2

CMW 500 V 3.8.12 - LTE Signaling 1 - X3.8.12.48

Connection Status

Cell:  Connection Established

RRC State: Connected
SCC1 State: OFF
SCC2 State: OFF

Event Log

06:36:17 SCC2: Off
06:36:17 SCC2: On
06:36:17 SCC2: RRC Added
06:36:16 SCC1: Off
06:36:16 SCC1: On
06:36:16 SCC1: RRC Added
06:36:12 SCC2: MAC Activated

UE Info

IMEI: 355346630026654
IMSI: 001010123456063
Voice Domain ... IMS PS Voice preferred CS
UE's Usage S... Data centric
Default Bearer IPv4 address IPv6 prefix
5 (cmw50...) 192.168.48.129
Dedicated Be... TFT Port Range DL / UL
6 (->5, Def... 5005 - 5008 / 5005 - 5008

Operating Band: Co-location active with PCC
Channel: 66536 Ch
Frequency: 2120.0 MHz
Cell Bandwidth: 20.0 MHz
RS EPRE: -85.0 dBm/15kHz
Full Cell BW Pow.: -54.2 dBm

PCC <-> SCC1 Swap

PCC -> SCC1 Copy

Sched.: User def. Channels

Downlink: Multicliaster ☐
RB: 100
Start RB: 0
Mod / TBSI: QPSK 5
Code Rate / TBS: 0.330 8760
Throughput: 8.734 Mbit/s

Buttons: Detach, Disconnect, SCC1 activate MAC, Multiple SCC Actions, Send SMS, Inter/Intra-RAT ..., Config ...

CMW 500 V 3.8.12 - LTE Signaling 1 - X3.8.12.48

Connection Status

Cell:  Connection Established

RRC State: Connected
SCC1 State: OFF
SCC2 State: OFF

Event Log

06:36:17 SCC2: Off
06:36:17 SCC2: On
06:36:17 SCC2: RRC Added
06:36:16 SCC1: Off
06:36:16 SCC1: On
06:36:16 SCC1: RRC Added
06:36:12 SCC2: MAC Activated

UE Info

IMEI: 355346630026654
IMSI: 001010123456063
Voice Domain ... IMS PS Voice preferred CS
UE's Usage S... Data centric
Default Bearer IPv4 address IPv6 prefix
5 (cmw50...) 192.168.48.129
Dedicated Be... TFT Port Range DL / UL
6 (->5, Def... 5005 - 5008 / 5005 - 5008

Operating Band: Band 71
Channel: 68761 Ch
Frequency: 634.5 MHz
Cell Bandwidth: 20.0 MHz
RS EPRE: -85.0 dBm/15kHz
Full Cell BW Pow.: -54.2 dBm

PCC <-> SCC2 Swap

PCC -> SCC2 Copy

Sched.: User def. Channels

Downlink: Multicliaster ☐
RB: 100
Start RB: 0
Mod / TBSI: QPSK 5
Code Rate / TBS: 0.330 8760
Throughput: 8.734 Mbit/s

Buttons: Detach, Disconnect, SCC2 activate MAC, Multiple SCC Actions, Send SMS, Inter/Intra-RAT ..., Config ...

- Connect and Activate MAC for all SCCs

The screenshot shows the CMW 500 V 3.8.12 - LTE Signaling 1 - X3.8.12.48 interface. The 'Connection Status' tab is active, showing the PCC and SCC1, SCC2, SCC3, SCC4, SCC5, SCC6, and SCC7 tabs. The 'Operating Band' is set to Band 71, and the 'Downlink' and 'Uplink' are both set to FDD. The 'Channel' is 68761 Ch, 'Frequency' is 634.5 MHz, 'Cell Bandwidth' is 20.0 MHz, 'RS EPRE' is -85.0 dBm/15kHz, and 'Full Cell BW Pow.' is -54.2 dBm. The 'Event Log' shows the following events:

- 06:36:17 SCC2: Off
- 06:36:17 SCC2: On
- 06:36:17 SCC2: RRC Added
- 06:36:16 SCC1: Off
- 06:36:16 SCC1: On
- 06:36:16 SCC1: RRC Added
- 06:36:12 SCC2: MAC Activated

The 'UE Info' tab shows the following information:

- IMEI: 355346630026654
- IMSI: 001010123456063
- Voice Domain: IMS PS Voice prefer
- UE's Usage: Data centric
- Default Bearer: IPv4 address IPv6
- 5 (cmw50...): 192.168.48.129
- Dedicated Be...: TFT Port Range DL
- 6 (->5, Def...): 5005 - 5008 / 500

The 'Multiple SCC Actions' dialog box is open, showing the following actions:

- activate MAC
- activate MAC

The 'Multiple SCC Actions' button is highlighted in red. The 'LTE Signaling' status is ON.

- Read the output power of DL CA in TX Measurement (LTE Tx Meas.)

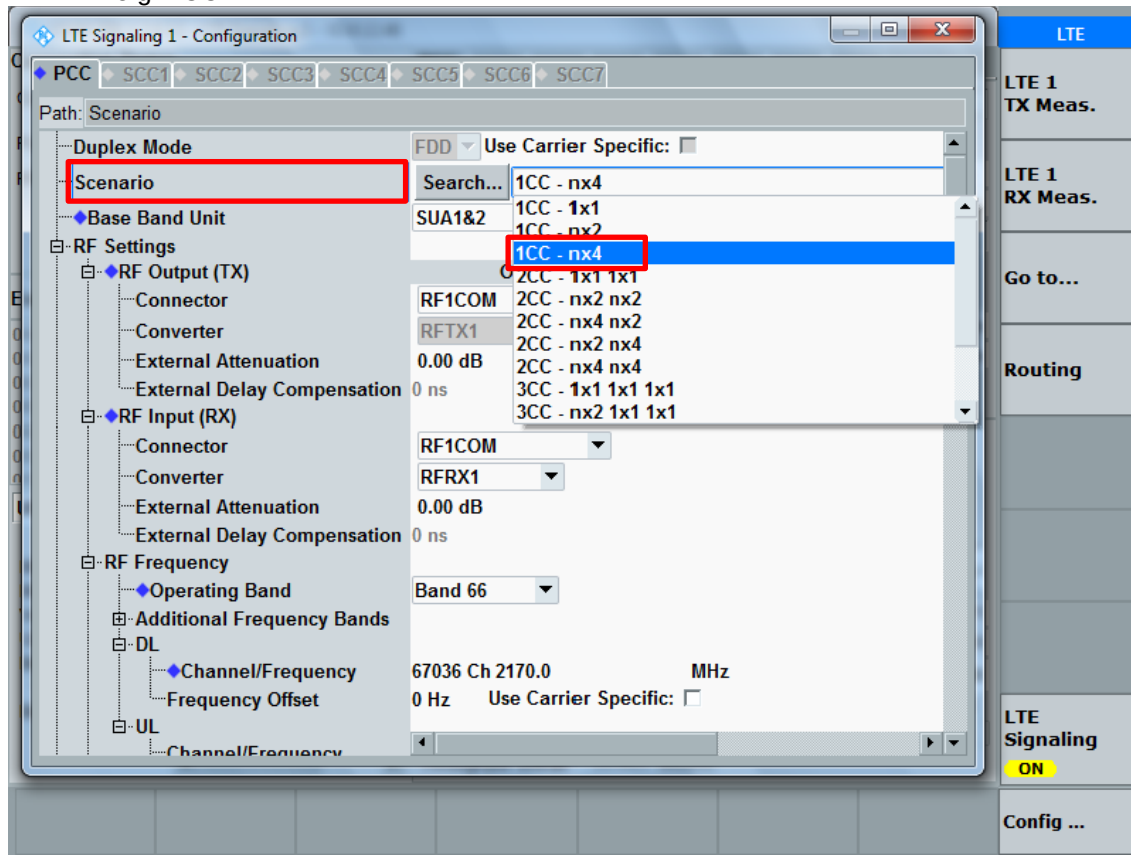
The screenshot shows the CMW 500 V 3.8.12 - LTE Measurement - X3.8.12.48 - TX Measurement interface. The 'Multi Evaluation' tab is active, showing the 'PRACH' and 'SRS' tabs. The 'FDD' frequency is 1770.0 MHz, 'Ref. Level' is 41.00 dBm, 'BW' is 20.0 MHz, 'CP' is Normal, and 'Meas Subfr/Slot' is 0 / All. The 'TX Measurement' results are shown in the following table:

	Current	Average	Extreme	StdDev
EVM RMS [%] I/h	0.64	0.71	0.68	0.71
EVM Peak [%] I/h	1.51	2.64	1.96	2.23
EVM DMRS [%] I/h	0.61	0.65	0.61	0.60
MErr RMS [%] I/h	NCAP	NCAP	NCAP	NCAP
MErr Peak [%] I/h	NCAP	NCAP	NCAP	NCAP
MErr DMRS [%] I/h	NCAP	NCAP	NCAP	NCAP
PhErr RMS [°] I/h	NCAP	NCAP	NCAP	NCAP
PhErr Peak [°] I/h	NCAP	NCAP	NCAP	NCAP
PhErr DMRS [°] I/h	NCAP	NCAP	NCAP	NCAP
IQ Offset [dBc]	-52.22	-52.32	-49.92	0.85
IQ Gain Imbalance [dB]	NCAP	NCAP	NCAP	NCAP
IQ Quadrature Error [°]	NCAP	NCAP	NCAP	NCAP
Freq Error [Hz]	0.51	0.09	-5.38	1.33
Timing Error [Ts]	-6.30	-5.63	-8.52	2.54
OBW [MHz]	0.27	0.27	0.32	0.02
	Current	Average	Min	Max
TX Power [dBm]	13.51	13.48	13.30	13.59
Peak Power [dBm]	18.40	18.60	17.80	19.50
RB Power [dBm]	13.48	13.46	13.37	13.50

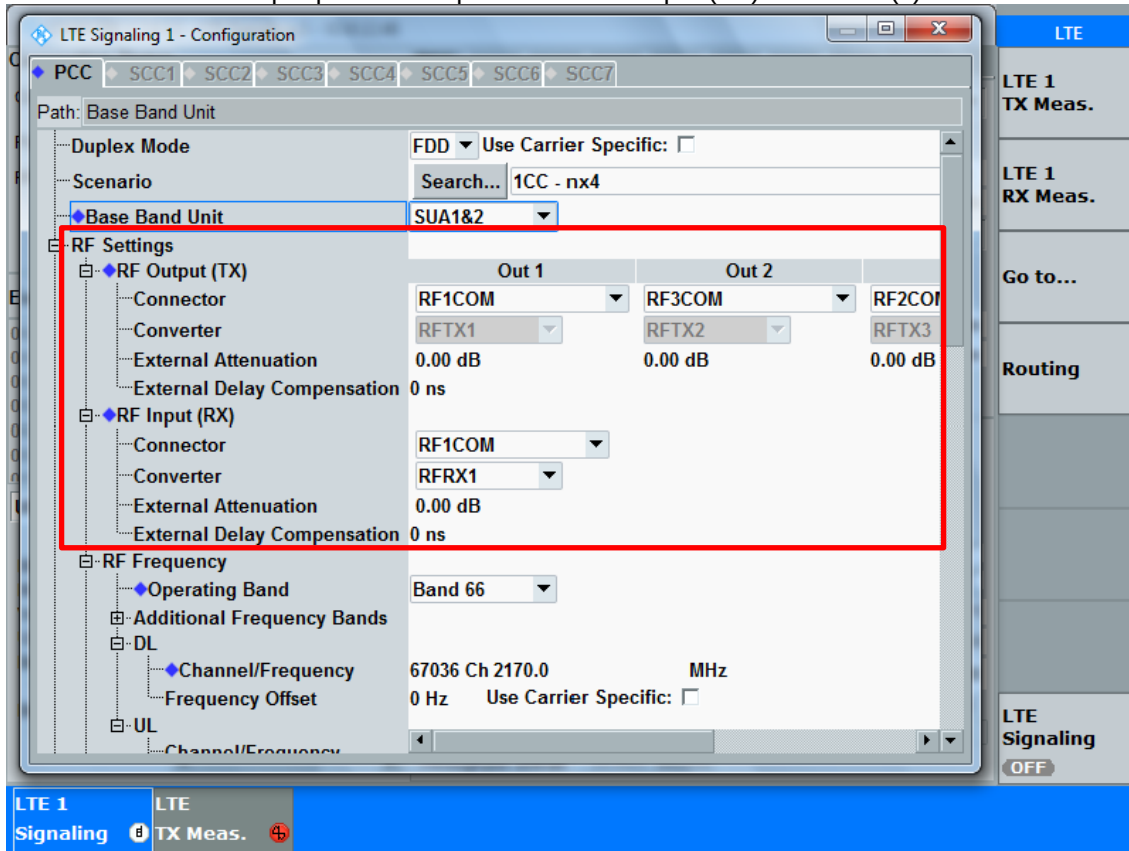
The 'Average' value for TX Power is highlighted in red. The 'Statistic Count' is 100 / 100, 'Out of Tolerance' is 0.00 %, 'Detected Modulation' is QPSK, 'Detected Channel Type' is PUSCH, and 'View Filter Throughput' is 100.0 %.

LTE Downlink 4x4 MIMO - Output Power measurement procedures

- Change the Scenario in the Configuration of LTE Signaling
e.g. 1CC – nx4

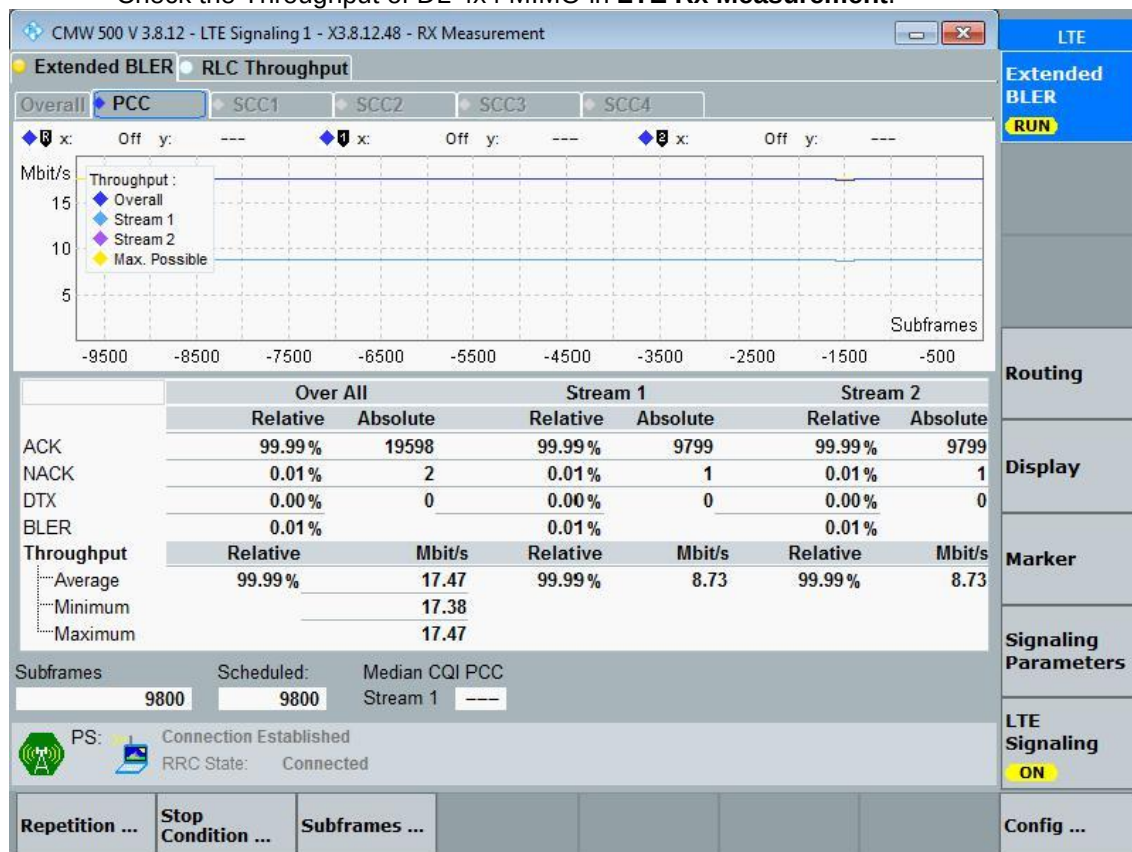


- Set the RF Output/Input Connector and Converter for PCC.
DL MIMO output ports correspond with RF Output (TX) Connector(s).

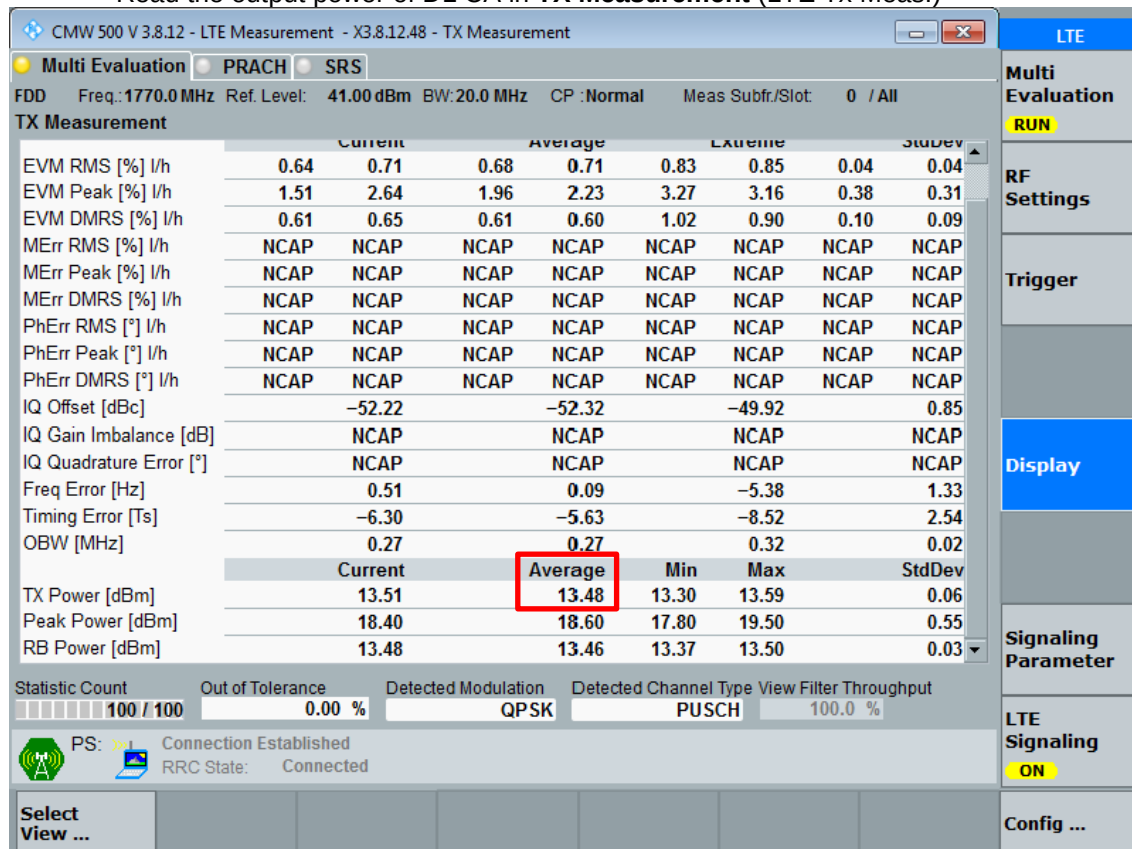


- Back to the LTE Signal screen, set operating band, BW, channel and RB configurations for PCC

- Check the Throughput of DL 4x4 MIMO in **LTE Rx Measurement**.



- Read the output power of DL CA in **TX Measurement** (LTE Tx Meas.)



LTE Uplink Carrier Aggregation Combinations**Maximum Output Power (Tune-up Limit) for LTE UL Carrier Aggregation**

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB Allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

UL CA power measurements were performed with QPSK modulation based on the worst-case standalone SAR. The tune-up limits are provided in table below. The UL CA mode power measurements represent the total power across both carriers. Measurements were made for all supported PCC bandwidths using the channel/RB combination resulting in the highest standalone output power at the least MPR (0 dB). SCCs were set to use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions (highest maximum power with MPR of 0 dB).

The standalone power measurement is the power for the PCC in the non-CA mode (i.e. single carrier power). In all cases the UL CA power is less than or equal to the standalone power, which is in accordance with the tune-up limits in table below.

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows;

- When the maximum output for UL CA is $\leq$ standalone LTE mode (without CA)
 - PCC is configured according to the highest standalone SAR configuration tested
 - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC.
- When the Reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based).
- UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

SAR measurement is not required for the 16QAM and 64QAM. When the highest maximum output power for 16QAM and 64QAM is ≤ 0.25 dB higher than the QPSK or when the reported SAR for the QPSK configuration is ≤ 1.45 W/kg.

E-UTRA CA configuration (BCS)	RF exposure conditions	Antenna	Bands		UL																		MPR	Standalone		PCC + SCC					
			PCC	SCC	PCC						SCC						LTE Rel.8	Aggregated BW	MPR	Tune-Up Limit	CA power (total PCC+SCC)	Delta		3GPP Rel.							
			1st	2nd	Modulation	RB	Offset	BW	Freq	ch	Modulation	RB	Offset	BW	Freq	ch															
CA_41C(0)(1)(2)(3)	Head	Ant B	41C	41C	QPSK	1	0	20	2636.5	41055	QPSK	1	99	20	2616.7	40857	0	24.38	40	0	25.0	24.35	-0.03	16							
CA_41C(0)(1)(2)(3)	Hotspot	Ant B	41C	41C	QPSK	50	0	20	2636.5	41055	QPSK	50	50	20	2616.7	40857	0	20.66	40	0	21.0	20.63	-0.03	16							
CA_41C(0)(1)(2)(3)	Body&Extremity	Ant B	41C	41C	QPSK	50	0	20	2680.0	41490	QPSK	50	0	20	2660.2	41292	0	17.53	40	0	18.0	17.51	-0.02	16							
CA_41C(0)(1)(2)(3)	Head	Ant E	41C	41C	QPSK	1	0	20	2636.5	41055	QPSK	1	99	20	2616.7	40857	0	24.64	40	0	25.0	24.61	-0.03	16							
CA_41C(0)(1)(2)(3)	Body&Hotspot	Ant E	41C	41C	QPSK	1	0	20	2636.5	41055	QPSK	1	99	20	2616.7	40857	0	21.18	40	0	21.5	21.15	-0.03	16							
CA_41C(0)(1)(2)(3)	Extremity	Ant E	41C	41C	QPSK	50	0	20	2506.0	39750	QPSK	50	50	20	2525.8	39948	0	20.86	40	0	21.5	20.85	-0.01	16							
CA_48C(0)	Head	Ant E	48C	48C	QPSK	50	0	20	3646.7	56207	QPSK	50	50	20	3626.9	56009	0	21.52	40	0	23.0	21.48	-0.04	16							
CA_48C(0)	Body&Hotspot	Ant E	48C	48C	QPSK	1	0	20	3690.0	56640	QPSK	1	99	20	3670.2	56442	0	19.82	40	0	20.5	19.80	-0.02	16							
CA_48C(0)	Extremity	Ant E	48C	48C	QPSK	1	0	20	3646.7	56207	QPSK	1	99	20	3626.9	56009	0	19.58	40	0	20.5	19.57	-0.01	16							
CA_66B(0)	Head	Ant B	66B	66B	QPSK	1	0	15	1772.5	132597	QPSK	1	24	5	1763.2	132504	0	23.90	20	0	25.0	23.88	-0.02	16							
CA_66B(0)	Hotspot	Ant B	66B	66B	QPSK	75	0	15	1772.5	132597	QPSK	25	0	5	1763.2	132504	0	19.09	20	0	20.0	19.11	-0.08	16							
CA_66B(0)	Body&Extremity	Ant B	66B	66B	QPSK	75	0	15	1772.5	132597	QPSK	25	0	5	1763.2	132504	0	19.09	20	0	20.0	19.11	-0.08	16							
CA_66B(0)	Head	Ant E	66B	66B	QPSK	36	0	15	1772.5	132597	QPSK	12	13	5	1763.2	132504	0	20.95	20	0	22.5	20.91	-0.04	16							
CA_66B(0)	Hotspot	Ant E	66B	66B	QPSK	36	0	15	1772.5	132597	QPSK	12	13	5	1763.2	132504	0	19.30	20	0	21.0	19.23	-0.07	16							
CA_66B(0)	Body&Extremity	Ant E	66B	66B	QPSK	36	0	15	1772.5	132597	QPSK	12	13	5	1763.2	132504	0	19.30	20	0	21.0	19.23	-0.07	16							
CA_66C(0)	Head	Ant B	66C	66C	QPSK	1	0	20	1770.0	132572	QPSK	1	99	20	1750.2	132374	0	24.02	40	0	25.0	24.01	-0.01	16							
CA_66C(0)	Hotspot	Ant B	66C	66C	QPSK	100	0	20	1770.0	132572	QPSK	100	0	20	1750.2	132374	0	19.10	40	0	20.0	19.06	-0.04	16							
CA_66C(0)	Body&Extremity	Ant B	66C	66C	QPSK	100	0	20	1770.0	132572	QPSK	100	0	20	1750.2	132374	0	19.10	40	0	20.0	19.06	-0.04	16							
CA_66C(0)	Head	Ant E	66C	66C	QPSK	50	0	20	1770.0	132572	QPSK	50	50	20	1750.2	132374	0	21.07	40	0	22.5	21.04	-0.03	16							
CA_66C(0)	Hotspot	Ant E	66C	66C	QPSK	50	0	20	1770.0	132572	QPSK	50	50	20	1750.2	132374	0	19.55	40	0	21.0	19.51	-0.04	16							
CA_66C(0)	Body&Extremity	Ant E	66C	66C	QPSK	50	0	20	1770.0	132572	QPSK	50	50	20	1750.2	132374	0	19.55	40	0	21.0	19.51	-0.04	16							

Note:

Standalone output power values are referenced from Sec.9.3 in the SAR Part.1 Test Report.

LTE Downlink Carrier Aggregation Combinations

The DL CA power measurement conditions for various CC's combinations were determined according LTE DL CA SAR Test Exclusion guidance in TCB workshop note (April 2018). Only yellow highlighted cells need power measurement. The following power measurements were performed with a single carrier uplink; CA for this particular project only supports one (1) uplink and up to four (4) downlinks.

LTE Release 10 Carrier Aggregation

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset
2CC#1	2A-2A		3CC#1	3CC#1	2A-2A-4A		4CC#1	4CC#1	2A-2A-4A-4A		
2CC#2	2A-4A		3CC#1	3CC#2	2A-2A-5A		4CC#2	4CC#2	2A-2A-4A-5A		
2CC#3	2A-5A		3CC#2	3CC#3	2A-2A-12A		4CC#3	4CC#3	2A-2A-4A-12A		
2CC#4	2A-12A		3CC#3	3CC#4	2A-2A-13A		4CC#8	4CC#4	2A-2A-4A-71A		
2CC#5	2A-13A		3CC#4	3CC#5	2A-2A-66A		4CC#5	4CC#5	2A-2A-5A-66A		5CC#1
2CC#6	2A-29A	B29 SCC Only	3CC#17	3CC#6	2A-2A-71A		4CC#4	4CC#6	2A-2A-12A-66A		5CC#3
2CC#7	2A-30A		3CC#11	3CC#7	2A-4A-4A		4CC#1	4CC#7	2A-2A-12B		5CC#4
2CC#8	2A-66A		3CC#5	3CC#8	2A-4A-5A		4CC#2	4CC#8	2A-2A-13A-66A		5CC#10
2CC#9	2A-71A		3CC#6	3CC#9	2A-4A-12A		4CC#3	4CC#9	2A-2A-66A-66A		5CC#1
2CC#10	4A-4A		3CC#7	3CC#10	2A-4A-71A		4CC#4	4CC#10	2A-2A-66A-71A		
2CC#11	4A-5A		3CC#8	3CC#11	2A-5A-30A		4CC#15	4CC#11	2A-2A-66C		5CC#2
2CC#12	4A-12A		3CC#9	3CC#12	2A-5A-66A		4CC#5	4CC#12	2A-4A-4A-5A		
2CC#13	4A-13A		3CC#26	3CC#13	2A-12A-30A		4CC#18	4CC#13	2A-4A-4A-12A		
2CC#14	4A-71A		3CC#10	3CC#14	2A-12A-66A		4CC#6	4CC#14	2A-4A-12B		
2CC#15	5A-30A		3CC#11	3CC#15	2A-12B		4CC#7	4CC#15	2A-5A-30A-66A		5CC#5
2CC#16	5A-66A		3CC#12	3CC#16	2A-13A-66A		4CC#8	4CC#16	2A-5A-66A-66A		5CC#1
2CC#17	12A-30A		3CC#13	3CC#17	2A-29A-30A	B29 SCC Only	4CC#33	4CC#17	2A-5A-66C		5CC#2
2CC#18	12A-66A		3CC#14	3CC#18	2A-29A-66A	B29 SCC Only	4CC#34	4CC#18	2A-12A-30A-66A		5CC#6
2CC#19	12B		3CC#15	3CC#19	2A-30A-66A		4CC#15	4CC#19	2A-12A-66A-66A		5CC#3
2CC#20	13A-66A		3CC#16	3CC#20	2A-66A-66A		4CC#9	4CC#20	2A-12A-66C		
2CC#21	25A-25A			3CC#21	2A-66A-71A		4CC#10	4CC#21	2A-12B-66A		5CC#4
2CC#22	29A-30A	B29 SCC Only	3CC#17	3CC#22	2A-66B		4CC#36	4CC#22	2A-13A-66A-66A		5CC#10
2CC#23	29A-66A	B29 SCC Only	3CC#18	3CC#23	2A-66C		4CC#11	4CC#23	2A-30A-66A-66A		5CC#5
2CC#24	30A-66A		3CC#19	3CC#24	4A-4A-5A		4CC#12	4CC#24	2A-66A-66A-71A		
2CC#25	41C		3CC#66	3CC#25	4A-4A-12A		4CC#13	4CC#25	4A-4A-12B		
2CC#26	66A-66A		3CC#20	3CC#26	4A-4A-13A			4CC#26	5A-30A-66A-66A		5CC#5
2CC#27	66A-71A		3CC#21	3CC#27	4A-4A-71A			4CC#27	12A-30A-66A-66A		5CC#6
2CC#28	66B		3CC#22	3CC#28	4A-12B		4CC#14	4CC#28	12B-66A-66A		5CC#16
2CC#29	66C		3CC#23	3CC#29	5A-30A-66A		4CC#15	4CC#29	2A-2A-5A-30A		5CC#7
2CC#30	2A-14A		3CC#42	3CC#30	5A-66A-66A		4CC#16	4CC#30	2A-2A-12A-30A		5CC#9
2CC#31	2A-48A	B48 SCC Only	3CC#46	3CC#31	5A-66C		4CC#17	4CC#31	2A-2A-14A-30A		5CC#11
2CC#32	2C		3CC#53	3CC#32	12A-30A-66A		4CC#18	4CC#32	2A-2A-14A-66A		5CC#11
2CC#33	4A-48A	B48 SCC Only		3CC#33	12A-66A-66A		4CC#19	4CC#33	2A-2A-29A-30A	B29 SCC Only	

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation (Continued)

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#34	5A-25A		
2CC#35	5A-41A		
2CC#36	5A-48A	B48 SCC Only	3CC#46
2CC#37	12A-25A		
2CC#38	13A-48A	B48 SCC Only	3CC#47
2CC#39	14A-30A		3CC#48
2CC#40	14A-66A		3CC#49
2CC#41	25A-41A	B41 SCC Only	
2CC#42	41A-41A		
2CC#43	48A-48A		
2CC#44	48A-66A	B48 SCC Only	3CC#51
2CC#45	48A-71A	B48 SCC Only	3CC#69
2CC#46	48B		
2CC#47	48C		3CC#70

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#34	12A-66C		4CC#20
3CC#35	12B-66A		4CC#21
3CC#36	13A-66A-66A		4CC#22
3CC#37	13A-66B		4CC#42
3CC#38	13A-66C		4CC#43
3CC#39	30A-66A-66A		4CC#23
3CC#40	66A-66A-71A		4CC#24
3CC#41	66C-71A		4CC#54
3CC#42	2A-2A-14A		4CC#31
3CC#43	2A-2A-29A	B29 SCC Only	4CC#33
3CC#44	2A-2A-30A		4CC#29
3CC#45	2A-4A-13A		
3CC#46	2A-5A-48A	B48 SCC Only	4CC#37
3CC#47	2A-13A-48A	B48 SCC Only	4CC#40
3CC#48	2A-14A-30A		4CC#31
3CC#49	2A-14A-66A		4CC#32
3CC#50	2A-48A-48A	B48 SCC Only	4CC#48
3CC#51	2A-48A-66A	B48 SCC Only	4CC#37
3CC#52	2A-48C	B48 SCC Only	4CC#38
3CC#53	2C-66A		4CC#53
3CC#54	4A-48C	B48 SCC Only	
3CC#55	5A-48A-66A	B48 SCC Only	4CC#37
3CC#56	5A-48C	B48 SCC Only	4CC#38
3CC#57	5A-66B		4CC#39
3CC#58	13A-48A-66A	B48 SCC Only	4CC#40
3CC#59	13A-48B	B48 SCC Only	
3CC#60	13A-48C	B48 SCC Only	4CC#41
3CC#61	14A-30A-66A		4CC#44
3CC#62	14A-66A-66A		4CC#45
3CC#63	25A-41C	B41 SCC Only	
3CC#64	29A-30A-66A	B29 SCC Only	4CC#46
3CC#65	29A-66A-66A	B29 SCC Only	4CC#47
3CC#66	41A-41C		
3CC#67	41D		
3CC#68	48A-48A-66A	B48 SCC Only	4CC#48
3CC#69	48A-48A-71A	B48 SCC Only	
3CC#70	48A-48C		
3CC#71	48A-66A-66A	B48 SCC Only	4CC#50
3CC#72	48A-66B	B48 SCC Only	4CC#59
3CC#73	48A-66C	B48 SCC Only	4CC#60
3CC#74	48B-66A	B48 SCC Only	
3CC#75	48C-66A	B48 SCC Only	4CC#51
3CC#76	48C-71A	B48 SCC Only	
3CC#77	48D		4CC#68

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#34	2A-2A-29A-66A	B29 SCC Only	
4CC#35	2A-2A-30A-66A		5CC#7
4CC#36	2A-2A-66B		5CC#8
4CC#37	2A-5A-48A-66A	B48 SCC Only	5CC#13
4CC#38	2A-5A-48C	B48 SCC Only	5CC#14
4CC#39	2A-5A-66B		5CC#8
4CC#40	2A-13A-48A-66A	B48 SCC Only	
4CC#41	2A-13A-48C	B48 SCC Only	5CC#17
4CC#42	2A-13A-66B		
4CC#43	2A-13A-66C		
4CC#44	2A-14A-30A-66A		5CC#11
4CC#45	2A-14A-66A-66A		5CC#12
4CC#46	2A-29A-30A-66A	B29 SCC Only	
4CC#47	2A-29A-66A-66A	B29 SCC Only	
4CC#48	2A-48A-48A-66A	B48 SCC Only	
4CC#49	2A-48A-48C	B48 SCC Only	5CC#20
4CC#50	2A-48A-66A-66A	B48 SCC Only	5CC#13
4CC#51	2A-48C-66A	B48 SCC Only	5CC#14
4CC#52	2A-48D	B48 SCC Only	5CC#15
4CC#53	2C-66A-66A		
4CC#54	2A-66C-71A		
4CC#55	4A-48D	B48 SCC Only	
4CC#56	5A-48A-66A-66A	B48 SCC Only	5CC#13
4CC#57	5A-48C-66A	B48 SCC Only	5CC#14
4CC#58	5A-48D	B48 SCC Only	5CC#15
4CC#59	13A-48A-66B	B48 SCC Only	
4CC#60	13A-48A-66C	B48 SCC Only	
4CC#61	13A-48C-66A	B48 SCC Only	5CC#17
4CC#62	13A-48D	B48 SCC Only	5CC#18
4CC#63	14A-30A-66A-66A		5CC#19
4CC#64	25A-41D	B41 SCC Only	
4CC#65	29A-30A-66A-66A	B29 SCC Only	
4CC#66	48A-48A-66A-66A	B48 SCC Only	
4CC#67	48A-48C-66A	B48 SCC Only	5CC#20
4CC#68	48A-48D		
4CC#69	48C-48C		
4CC#70	48C-66A-66A	B48 SCC Only	5CC#22
4CC#71	48C-66B	B48 SCC Only	
4CC#72	48C-66C	B48 SCC Only	
4CC#73	48D-66A	B48 SCC Only	5CC#23
4CC#74	48E		5CC#32

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation (Continued)

Index	5CC	Restriction	Completely Covered by Measurement Superset	Index	6CC	Restriction	Completely Covered by Measurement Superset
5CC#1	2A-2A-5A-66A-66A			6CC#1	2A-5A-48C-66A-66A	B48 SCC Only	
5CC#2	2A-2A-5A-66C			6CC#2	2A-48E-66A	B48 SCC Only	
5CC#3	2A-2A-12A-66A-66A			6CC#3	5A-48D-66A-66A	B48 SCC Only	
5CC#4	2A-2A-12B-66A			6CC#4	13A-48E-66A	B48 SCC Only	
5CC#5	2A-5A-30A-66A-66A						
5CC#6	2A-12A-30A-66A-66A						
5CC#7	2A-2A-5A-30A-66A						
5CC#8	2A-2A-5A-66B						
5CC#9	2A-2A-12A-30A-66A						
5CC#10	2A-2A-13A-66A-66A						
5CC#11	2A-2A-14A-30A-66A						
5CC#12	2A-2A-14A-66A-66A						
5CC#13	2A-5A-48A-66A-66A	B48 SCC Only					
5CC#14	2A-5A-48C-66A	B48 SCC Only	6CC#1				
5CC#15	2A-5A-48D	B48 SCC Only					
5CC#16	2A-12B-66A-66A						
5CC#17	2A-13A-48C-66A	B48 SCC Only					
5CC#18	2A-13A-48D	B48 SCC Only					
5CC#19	2A-14A-30A-66A-66A						
5CC#20	2A-48A-48C-66A	B48 SCC Only					
5CC#21	2A-48C-48C	B48 SCC Only					
5CC#22	2A-48C-66A-66A	B48 SCC Only	6CC#1				
5CC#23	2A-48D-66A	B48 SCC Only					
5CC#24	2A-48E	B48 SCC Only	6CC#2				
5CC#25	4A-48E						
5CC#26	5A-48C-66A-66A	B48 SCC Only	6CC#1				
5CC#27	5A-48D-66A	B48 SCC Only	6CC#3				
5CC#28	13A-48D-66A	B48 SCC Only					
5CC#29	13A-48E	B48 SCC Only	6CC#4				
5CC#30	48C-48C-66A	B48 SCC Only					
5CC#31	48A-48D-66A	B48 SCC Only					
5CC#32	48A-48E						
5CC#33	48C-48D						
5CC#34	48E-66A		6CC#2				

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset
2CC#1	[2A]-2A		3CC#2	3CC#1	2A-2A-[4A]		4CC#1	4CC#1	2A-2A-[4A]-4A		
2CC#2	[2A]-[2A]		3CC#4	3CC#2	[2A]-2A-4A		4CC#3	4CC#2	2A-2A-[4A]-[4A]		
2CC#3	2A-[4A]		3CC#1	3CC#3	[2A]-2A-[4A]		4CC#4	4CC#3	[2A]-2A-4A-4A		
2CC#4	[2A]-4A		3CC#2	3CC#4	[2A]-[2A]-4A		4CC#6	4CC#4	[2A]-2A-[4A]-4A		
2CC#5	[2A]-[4A]		3CC#3	3CC#5	[2A]-[2A]-[4A]		4CC#7	4CC#5	[2A]-2A-[4A]-[4A]		
2CC#6	[2A]-5A		3CC#6	3CC#6	[2A]-2A-5A		4CC#10	4CC#6	[2A]-[2A]-4A-4A		
2CC#7	[2A]-12A		3CC#8	3CC#7	[2A]-[2A]-5A		4CC#12	4CC#7	[2A]-[2A]-[4A]-4A		
2CC#8	[2A]-13A		3CC#10	3CC#8	[2A]-2A-12A		4CC#15	4CC#8	[2A]-[2A]-[4A]-[4A]		
2CC#9	[2A]-29A	29A SCC only	3CC#50	3CC#9	[2A]-[2A]-12A		4CC#17	4CC#9	2A-2A-[4A]-5A		
2CC#10	2A-[30A]		3CC#33	3CC#10	[2A]-2A-13A		4CC#37	4CC#10	[2A]-2A-4A-5A		
2CC#11	[2A]-30A		3CC#34	3CC#11	[2A]-[2A]-13A		4CC#39	4CC#11	[2A]-2A-[4A]-5A		
2CC#12	[2A]-[30A]		3CC#35	3CC#12	2A-2A-[66A]		4CC#24	4CC#12	[2A]-[2A]-4A-5A		
2CC#13	2A-[66A]		3CC#12	3CC#13	[2A]-2A-66A		4CC#25	4CC#13	[2A]-[2A]-[4A]-5A		
2CC#14	[2A]-66A		3CC#13	3CC#14	[2A]-2A-[66A]		4CC#26	4CC#14	2A-2A-[4A]-12A		
2CC#15	[2A]-[66A]		3CC#14	3CC#15	[2A]-[2A]-66A		4CC#27	4CC#15	[2A]-2A-4A-12A		
2CC#16	[2A]-71A		3CC#17	3CC#16	[2A]-[2A]-[66A]		4CC#28	4CC#16	[2A]-2A-[4A]-12A		
2CC#17	[4A]-4A		3CC#19	3CC#17	[2A]-2A-71A		4CC#20	4CC#17	[2A]-[2A]-4A-12A		
2CC#18	[4A]-[4A]		3CC#20	3CC#18	[2A]-[2A]-71A		4CC#22	4CC#18	[2A]-[2A]-[4A]-12A		
2CC#19	[4A]-5A		3CC#24	3CC#19	2A-[4A]-4A		4CC#1	4CC#19	2A-2A-[4A]-71A		
2CC#20	[4A]-12A		3CC#27	3CC#20	2A-[4A]-[4A]		4CC#2	4CC#20	[2A]-2A-4A-71A		
2CC#21	[4A]-13A		3CC#80	3CC#21	[2A]-4A-4A		4CC#3	4CC#21	[2A]-2A-[4A]-71A		
2CC#22	[4A]-71A		3CC#30	3CC#22	[2A]-[4A]-4A		4CC#4	4CC#22	[2A]-[2A]-4A-71A		
2CC#23	5A-[30A]		3CC#33	3CC#23	[2A]-[4A]-[4A]		4CC#5	4CC#23	[2A]-[2A]-[4A]-71A		
2CC#24	5A-[66A]		3CC#36	3CC#24	2A-[4A]-5A		4CC#9	4CC#24	2A-2A-5A-[66A]		5CC#1
2CC#25	12A-[30A]		3CC#39	3CC#25	[2A]-4A-5A		4CC#10	4CC#25	[2A]-2A-5A-66A		5CC#3
2CC#26	12A-[66A]		3CC#42	3CC#26	[2A]-[4A]-5A		4CC#11	4CC#26	[2A]-2A-5A-[66A]		5CC#4
2CC#27	13A-[66A]		3CC#46	3CC#27	2A-[4A]-12A		4CC#14	4CC#27	[2A]-[2A]-5A-66A		5CC#6
2CC#28	[25A]-25A			3CC#28	[2A]-4A-12A		4CC#15	4CC#28	[2A]-[2A]-5A-[66A]		5CC#7
2CC#29	[25A]-[25A]			3CC#29	[2A]-[4A]-12A		4CC#16	4CC#29	2A-2A-12A-[66A]		5CC#14
2CC#30	29A-[30A]	29A SCC only	3CC#49	3CC#30	2A-[4A]-71A		4CC#19	4CC#30	[2A]-2A-12A-66A		5CC#16
2CC#31	29A-[66A]	29A SCC only	3CC#52	3CC#31	[2A]-4A-71A		4CC#20	4CC#31	[2A]-2A-12A-[66A]		5CC#17
2CC#32	30A-[66A]		3CC#55	3CC#32	[2A]-[4A]-71A		4CC#21	4CC#32	[2A]-[2A]-12A-66A		5CC#19
2CC#33	[30A]-66A		3CC#56	3CC#33	2A-5A-[30A]		4CC#73	4CC#33	[2A]-[2A]-12A-[66A]		5CC#20
2CC#34	[30A]-[66A]		3CC#57	3CC#34	[2A]-5A-30A		4CC#75	4CC#34	[2A]-2A-12B		5CC#23
2CC#35	[41C]		3CC#178	3CC#35	[2A]-5A-[30A]		4CC#77	4CC#35	[2A]-[2A]-12B		5CC#25

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO(Continued)

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset
2CC#36	[66A]-66A		3CC#62	3CC#36	2A-5A-[66A]		4CC#24	4CC#36	2A-2A-13A-[66A]		5CC#76
2CC#37	[66A]-[66A]		3CC#63	3CC#37	[2A]-5A-66A		4CC#25	4CC#37	[2A]-2A-13A-66A		5CC#78
2CC#38	[66A]-71A		3CC#67	3CC#38	[2A]-5A-[66A]		4CC#26	4CC#38	[2A]-2A-13A-[66A]		5CC#79
2CC#39	[66B]		3CC#70	3CC#39	2A-12A-[30A]		4CC#88	4CC#39	[2A]-[2A]-13A-66A		5CC#81
2CC#40	[66C]		3CC#73	3CC#40	[2A]-12A-30A		4CC#90	4CC#40	[2A]-[2A]-13A-[66A]		5CC#82
2CC#41	[2A]-14A		3CC#110	3CC#41	[2A]-12A-[30A]		4CC#92	4CC#41	2A-2A-[66A]-66A		5CC#1
2CC#42	2A-[48A]	48A SCC only	3CC#122	3CC#42	2A-12A-[66A]		4CC#29	4CC#42	2A-2A-[66A]-[66A]		5CC#2
2CC#43	[2A]-48A	48A SCC only	3CC#123	3CC#43	[2A]-12A-66A		4CC#30	4CC#43	[2A]-2A-66A-66A		5CC#3
2CC#44	[2A]-[48A]	48A SCC only	3CC#124	3CC#44	[2A]-12A-[66A]		4CC#31	4CC#44	[2A]-2A-[66A]-66A		5CC#4
2CC#45	[2C]		3CC#150	3CC#45	[2A]-12B		4CC#34	4CC#45	[2A]-2A-[66A]-[66A]		5CC#5
2CC#46	4A-[48A]	B48 SCC Only		3CC#46	2A-13A-[66A]		4CC#36	4CC#46	[2A]-[2A]-66A-66A		5CC#6
2CC#47	[4A]-48A	B48 SCC Only		3CC#47	[2A]-13A-66A		4CC#37	4CC#47	[2A]-[2A]-[66A]-66A		5CC#7
2CC#48	[4A]-[48A]	B48 SCC Only		3CC#48	[2A]-13A-[66A]		4CC#38	4CC#48	[2A]-[2A]-[66A]-[66A]		5CC#8
2CC#49	5A-[25A]			3CC#49	2A-29A-[30A]	B29 SCC Only	4CC#160	4CC#49	2A-2A-[66A]-71A		
2CC#50	5A-[41A]	B41 SCC Only		3CC#50	[2A]-29A-30A	B29 SCC Only	4CC#161	4CC#50	[2A]-2A-66A-71A		
2CC#51	5A-[48A]	B48 SCC Only	3CC#122	3CC#51	[2A]-29A-[30A]	B29 SCC Only	4CC#162	4CC#51	[2A]-2A-[66A]-71A		
2CC#52	12A-[25A]			3CC#52	2A-29A-[66A]	B29 SCC Only	4CC#165	4CC#52	[2A]-[2A]-66A-71A		
2CC#53	13A-[48A]	B48 SCC Only	3CC#125	3CC#53	[2A]-29A-66A	B29 SCC Only	4CC#166	4CC#53	[2A]-[2A]-[66A]-71A		
2CC#54	14A-[30A]		3CC#128	3CC#54	[2A]-29A-[66A]	B29 SCC Only	4CC#167	4CC#54	2A-2A-[66C]		5CC#9
2CC#55	14A-[66A]		3CC#131	3CC#55	2A-30A-[66A]		4CC#72	4CC#55	[2A]-2A-66C		5CC#10
2CC#56	25A-[41A]	B41 SCC Only		3CC#56	2A-[30A]-66A		4CC#73	4CC#56	[2A]-2A-[66C]		5CC#11
2CC#57	[25A]-41A	B41 SCC Only		3CC#57	2A-[30A]-[66A]		4CC#74	4CC#57	[2A]-[2A]-66C		5CC#12
2CC#58	[25A]-[41A]	B41 SCC Only		3CC#58	[2A]-30A-66A		4CC#75	4CC#58	[2A]-[2A]-[66C]		5CC#13
2CC#59	[41A]-41A			3CC#59	[2A]-30A-[66A]		4CC#76	4CC#59	2A-[4A]-4A-5A		
2CC#60	[41A]-[41A]			3CC#60	[2A]-[30A]-66A		4CC#77	4CC#60	2A-[4A]-[4A]-5A		
2CC#61	[48A]-48A			3CC#61	[2A]-[30A]-[66A]		4CC#78	4CC#61	[2A]-4A-4A-5A		
2CC#62	[48A]-[48A]			3CC#62	2A-[66A]-66A		4CC#41	4CC#62	[2A]-[4A]-4A-5A		
2CC#63	48A-[66A]	B48 SCC Only	3CC#139	3CC#63	2A-[66A]-[66A]		4CC#42	4CC#63	[2A]-[4A]-[4A]-5A		
2CC#64	[48A]-66A	B48 SCC Only	3CC#140	3CC#64	[2A]-66A-66A		4CC#43	4CC#64	2A-[4A]-4A-12A		
2CC#65	[48A]-[66A]	B48 SCC Only	3CC#141	3CC#65	[2A]-[66A]-66A		4CC#44	4CC#65	2A-[4A]-[4A]-12A		
2CC#66	[48A]-71A	B48 SCC Only	3CC#187	3CC#66	[2A]-[66A]-[66A]		4CC#45	4CC#66	[2A]-4A-4A-12A		
2CC#67	[48B]			3CC#67	2A-[66A]-71A		4CC#49	4CC#67	[2A]-[4A]-4A-12A		
2CC#68	[48C]		3CC#189	3CC#68	[2A]-66A-71A		4CC#50	4CC#68	[2A]-[4A]-[4A]-12A		
				3CC#69	[2A]-[66A]-71A		4CC#51	4CC#69	2A-[4A]-12B		
				3CC#70	2A-[66B]		4CC#181	4CC#70	[2A]-4A-12B		
				3CC#71	[2A]-66B		4CC#182	4CC#71	[2A]-[4A]-12B		
				3CC#72	[2A]-[66B]		4CC#183	4CC#72	2A-5A-30A-[66A]		5CC#27
				3CC#73	2A-[66C]		4CC#54	4CC#73	2A-5A-[30A]-66A		5CC#29
				3CC#74	[2A]-66C		4CC#55	4CC#74	2A-5A-[30A]-[66A]		5CC#30

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO (Continued)

Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
3CC#75	[2A]-[66C]		4CC#56	4CC#75	[2A]-5A-30A-66A		5CC#32	5CC#1	2A-2A-5A-[66A]-66A		
3CC#76	[4A]-4A-5A		4CC#59	4CC#76	[2A]-5A-30A-[66A]		5CC#33	5CC#2	2A-2A-5A-[66A]-[66A]		
3CC#77	[4A]-[4A]-5A		4CC#60	4CC#77	[2A]-5A-[30A]-66A		5CC#35	5CC#3	[2A]-2A-5A-66A-66A		
3CC#78	[4A]-4A-12A		4CC#64	4CC#78	[2A]-5A-[30A]-[66A]		5CC#36	5CC#4	[2A]-2A-5A-[66A]-66A		
3CC#79	[4A]-[4A]-12A		4CC#65	4CC#79	2A-5A-[66A]-66A		5CC#1	5CC#5	[2A]-2A-5A-[66A]-[66A]		
3CC#80	[4A]-4A-13A			4CC#80	2A-5A-[66A]-[66A]		5CC#2	5CC#6	[2A]-[2A]-5A-66A-66A		
3CC#81	[4A]-[4A]-13A			4CC#81	[2A]-5A-66A-66A		5CC#3	5CC#7	[2A]-[2A]-5A-[66A]-66A		
3CC#82	[4A]-4A-71A			4CC#82	[2A]-5A-[66A]-66A		5CC#4	5CC#8	[2A]-[2A]-5A-[66A]-[66A]		
3CC#83	[4A]-[4A]-71A			4CC#83	[2A]-5A-[66A]-[66A]		5CC#5	5CC#9	2A-2A-5A-[66C]		
3CC#84	[4A]-12B		4CC#69	4CC#84	2A-5A-[66C]		5CC#9	5CC#10	[2A]-2A-5A-66C		
3CC#85	5A-30A-[66A]		4CC#72	4CC#85	[2A]-5A-66C		5CC#10	5CC#11	[2A]-2A-5A-[66C]		
3CC#86	5A-[30A]-66A		4CC#73	4CC#86	[2A]-5A-[66C]		5CC#11	5CC#12	[2A]-[2A]-5A-66C		
3CC#87	5A-[30A]-[66A]		4CC#74	4CC#87	2A-12A-30A-[66A]		5CC#38	5CC#13	[2A]-[2A]-5A-[66C]		
3CC#88	5A-[66A]-66A		4CC#79	4CC#88	2A-12A-[30A]-66A		5CC#40	5CC#14	2A-2A-12A-[66A]-66A		
3CC#89	5A-[66A]-[66A]		4CC#80	4CC#89	2A-12A-[30A]-[66A]		5CC#41	5CC#15	2A-2A-12A-[66A]-[66A]		
3CC#90	5A-[66C]		4CC#84	4CC#90	[2A]-12A-30A-66A		5CC#43	5CC#16	[2A]-2A-12A-66A-66A		
3CC#91	12A-30A-[66A]		4CC#87	4CC#91	[2A]-12A-30A-[66A]		5CC#44	5CC#17	[2A]-2A-12A-[66A]-66A		
3CC#92	12A-[30A]-66A		4CC#88	4CC#92	[2A]-12A-[30A]-66A		5CC#46	5CC#18	[2A]-2A-12A-[66A]-[66A]		
3CC#93	12A-[30A]-[66A]		4CC#89	4CC#93	[2A]-12A-[30A]-[66A]		5CC#47	5CC#19	[2A]-[2A]-12A-66A-66A		
3CC#94	12A-[66A]-66A		4CC#94	4CC#94	2A-12A-[66A]-66A		5CC#14	5CC#20	[2A]-[2A]-12A-[66A]-66A		
3CC#95	12A-[66A]-[66A]		4CC#95	4CC#95	2A-12A-[66A]-[66A]		5CC#15	5CC#21	[2A]-[2A]-12A-[66A]-[66A]		
3CC#96	12A-[66C]		4CC#99	4CC#96	[2A]-12A-66A-66A		5CC#16	5CC#22	2A-2A-12B-[66A]		
3CC#97	12B-[66A]		4CC#102	4CC#97	[2A]-12A-[66A]-66A		5CC#17	5CC#23	[2A]-2A-12B-66A		
3CC#98	13A-[66A]-66A		4CC#105	4CC#98	[2A]-12A-[66A]-[66A]		5CC#18	5CC#24	[2A]-2A-12B-[66A]		
3CC#99	13A-[66A]-[66A]		4CC#106	4CC#99	2A-12A-[66C]			5CC#25	[2A]-[2A]-12B-66A		
3CC#100	13A-[66B]		4CC#209	4CC#100	[2A]-12A-66C			5CC#26	[2A]-[2A]-12B-[66A]		
3CC#101	13A-[66C]		4CC#212	4CC#101	[2A]-12A-[66C]			5CC#27	2A-5A-30A-[66A]-66A		
3CC#102	30A-[66A]-66A		4CC#110	4CC#102	2A-12B-[66A]		5CC#22	5CC#28	2A-5A-30A-[66A]-[66A]		
3CC#103	30A-[66A]-[66A]		4CC#111	4CC#103	[2A]-12B-66A		5CC#23	5CC#29	2A-5A-[30A]-66A-66A		
3CC#104	[30A]-66A-66A		4CC#112	4CC#104	[2A]-12B-[66A]		5CC#24	5CC#30	2A-5A-[30A]-[66A]-66A		
3CC#105	[30A]-[66A]-66A		4CC#113	4CC#105	2A-13A-[66A]-66A		5CC#76	5CC#31	2A-5A-[30A]-[66A]-[66A]		
3CC#106	[30A]-[66A]-[66A]		4CC#114	4CC#106	2A-13A-[66A]-[66A]		5CC#77	5CC#32	[2A]-5A-30A-66A-66A		
3CC#107	[66A]-66A-71A		4CC#121	4CC#107	[2A]-13A-66A-66A		5CC#78	5CC#33	[2A]-5A-30A-[66A]-66A		
3CC#108	[66A]-[66A]-71A		4CC#122	4CC#108	[2A]-13A-[66A]-66A		5CC#79	5CC#34	[2A]-5A-30A-[66A]-[66A]		
3CC#109	[66C]-71A		4CC#283	4CC#109	[2A]-13A-[66A]-[66A]		5CC#80	5CC#35	[2A]-5A-[30A]-66A-66A		
3CC#110	[2A]-2A-14A		4CC#151	4CC#110	2A-30A-[66A]-66A		5CC#27	5CC#36	[2A]-5A-[30A]-[66A]-66A		
3CC#111	[2A]-[2A]-14A		4CC#153	4CC#111	2A-30A-[66A]-[66A]		5CC#28	5CC#37	[2A]-5A-[30A]-[66A]-[66A]		
3CC#112	[2A]-2A-29A	B29 SCC Only	4CC#161	4CC#112	2A-[30A]-66A-66A		5CC#29	5CC#38	2A-12A-30A-[66A]-66A		
3CC#113	[2A]-[2A]-29A	B29 SCC Only	4CC#163	4CC#113	2A-[30A]-[66A]-66A		5CC#30	5CC#39	2A-12A-30A-[66A]-[66A]		
3CC#114	2A-2A-[30A]		4CC#140	4CC#114	2A-[30A]-[66A]-[66A]		5CC#31	5CC#40	2A-12A-[30A]-66A-66A		
3CC#115	[2A]-2A-30A		4CC#141	4CC#115	[2A]-30A-66A-66A		5CC#32	5CC#41	2A-12A-[30A]-[66A]-66A		
3CC#116	[2A]-2A-[30A]		4CC#142	4CC#116	[2A]-30A-[66A]-66A		5CC#33	5CC#42	2A-12A-[30A]-[66A]-[66A]		
3CC#117	[2A]-[2A]-30A		4CC#143	4CC#117	[2A]-30A-[66A]-[66A]		5CC#34	5CC#43	[2A]-12A-30A-66A-66A		

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO (Continued)

Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
3CC#118	[2A]-[2A]-[30A]		4CC#144	4CC#118	[2A]-[30A]-66A-66A		5CC#35	5CC#44	[2A]-12A-30A-[66A]-66A		
3CC#119	2A-[4A]-13A			4CC#119	[2A]-[30A]-[66A]-66A		5CC#36	5CC#45	[2A]-12A-30A-[66A]-[66A]		
3CC#120	[2A]-4A-13A			4CC#120	[2A]-[30A]-[66A]-[66A]		5CC#37	5CC#46	[2A]-12A-[30A]-66A-66A		
3CC#121	[2A]-[4A]-13A			4CC#121	2A-[66A]-66A-71A			5CC#47	[2A]-12A-[30A]-[66A]-66A		
3CC#122	2A-5A-[48A]	B48 SCC Only	4CC#187	4CC#122	2A-[66A]-[66A]-71A			5CC#48	[2A]-12A-[30A]-[66A]-[66A]		
3CC#123	[2A]-5A-48A	B48 SCC Only	4CC#189	4CC#123	[2A]-66A-66A-71A			5CC#49	2A-2A-5A-30A-[66A]		
3CC#124	[2A]-5A-[48A]	B48 SCC Only	4CC#191	4CC#124	[2A]-[66A]-66A-71A			5CC#50	2A-2A-5A-[30A]-66A		
3CC#125	2A-13A-[48A]	B48 SCC Only	4CC#200	4CC#125	[2A]-[66A]-[66A]-71A			5CC#51	2A-2A-5A-[30A]-[66A]		
3CC#126	[2A]-13A-48A	B48 SCC Only	4CC#202	4CC#126	[4A]-4A-12B			5CC#52	[2A]-2A-5A-30A-66A		
3CC#127	[2A]-13A-[48A]	B48 SCC Only	4CC#204	4CC#127	[4A]-[4A]-12B			5CC#53	[2A]-2A-5A-30A-[66A]		
3CC#128	2A-14A-[30A]		4CC#150	4CC#128	5A-30A-[66A]-66A		5CC#27	5CC#54	[2A]-2A-5A-[30A]-66A		
3CC#129	[2A]-14A-30A		4CC#151	4CC#129	5A-30A-[66A]-[66A]		5CC#28	5CC#55	[2A]-2A-5A-[30A]-[66A]		
3CC#130	[2A]-14A-[30A]		4CC#152	4CC#130	5A-[30A]-66A-66A		5CC#29	5CC#56	[2A]-[2A]-5A-30A-66A		
3CC#131	2A-14A-[66A]		4CC#155	4CC#131	5A-[30A]-[66A]-66A		5CC#30	5CC#57	[2A]-[2A]-5A-30A-[66A]		
3CC#132	[2A]-14A-66A		4CC#156	4CC#132	5A-[30A]-[66A]-[66A]		5CC#31	5CC#58	[2A]-[2A]-5A-[30A]-66A		
3CC#133	[2A]-14A-[66A]		4CC#157	4CC#133	12A-30A-[66A]-66A		5CC#38	5CC#59	[2A]-[2A]-5A-[30A]-[66A]		
3CC#134	2A-[48A]-48A	B48 SCC Only	4CC#240	4CC#134	12A-30A-[66A]-[66A]		5CC#39	5CC#60	2A-2A-5A-[66B]		
3CC#135	2A-[48A]-[48A]	B48 SCC Only	4CC#242	4CC#135	12A-[30A]-66A-66A		5CC#40	5CC#61	[2A]-2A-5A-66B		
3CC#136	[2A]-48A-48A	B48 SCC Only	4CC#244	4CC#136	12A-[30A]-[66A]-66A		5CC#41	5CC#62	[2A]-2A-5A-[66B]		
3CC#137	[2A]-[48A]-48A	B48 SCC Only	4CC#246	4CC#137	12A-[30A]-[66A]-[66A]		5CC#42	5CC#63	[2A]-[2A]-5A-66B		
3CC#138	[2A]-[48A]-[48A]	B48 SCC Only	4CC#248	4CC#138	12B-[66A]-66A		5CC#124	5CC#64	[2A]-[2A]-5A-[66B]		
3CC#139	2A-48A-[66A]	B48 SCC Only	4CC#186	4CC#139	12B-[66A]-[66A]		5CC#125	5CC#65	2A-2A-12A-30A-[66A]		
3CC#140	2A-[48A]-66A	B48 SCC Only	4CC#187	4CC#140	2A-2A-5A-[30A]		5CC#50	5CC#66	2A-2A-12A-[30A]-66A		
3CC#141	2A-[48A]-[66A]	B48 SCC Only	4CC#188	4CC#141	[2A]-2A-5A-30A		5CC#52	5CC#67	2A-2A-12A-[30A]-[66A]		
3CC#142	[2A]-48A-66A	B48 SCC Only	4CC#189	4CC#142	[2A]-2A-5A-[30A]		5CC#54	5CC#68	[2A]-2A-12A-30A-66A		
3CC#143	[2A]-48A-[66A]	B48 SCC Only	4CC#190	4CC#143	[2A]-[2A]-5A-30A		5CC#56	5CC#69	[2A]-2A-12A-30A-[66A]		
3CC#144	[2A]-[48A]-66A	B48 SCC Only	4CC#191	4CC#144	[2A]-[2A]-5A-[30A]		5CC#58	5CC#70	[2A]-2A-12A-[30A]-66A		
3CC#145	[2A]-[48A]-[66A]	B48 SCC Only	4CC#192	4CC#145	2A-2A-12A-[30A]		5CC#66	5CC#71	[2A]-2A-12A-[30A]-[66A]		
3CC#146	2A-[48C]	B48 SCC Only	4CC#193	4CC#146	[2A]-2A-12A-30A		5CC#68	5CC#72	[2A]-[2A]-12A-30A-66A		
3CC#147	[2A]-48C	B48 SCC Only	4CC#194	4CC#147	[2A]-2A-12A-[30A]		5CC#70	5CC#73	[2A]-[2A]-12A-30A-[66A]		
3CC#148	[2A]-[48C]	B48 SCC Only	4CC#195	4CC#148	[2A]-[2A]-12A-30A		5CC#72	5CC#74	[2A]-[2A]-12A-[30A]-66A		
3CC#149	2C-[66A]		4CC#278	4CC#149	[2A]-[2A]-12A-[30A]		5CC#74	5CC#75	[2A]-[2A]-12A-[30A]-[66A]		
3CC#150	[2C]-66A		4CC#280	4CC#150	2A-2A-14A-[30A]		5CC#85	5CC#76	2A-2A-13A-[66A]-66A		
3CC#151	[2C]-[66A]		4CC#281	4CC#151	[2A]-2A-14A-30A		5CC#87	5CC#77	2A-2A-13A-[66A]-[66A]		
3CC#152	4A-[48C]	B48 SCC Only		4CC#152	[2A]-2A-14A-[30A]		5CC#89	5CC#78	[2A]-2A-13A-66A-66A		
3CC#153	[4A]-48C	B48 SCC Only		4CC#153	[2A]-[2A]-14A-30A		5CC#91	5CC#79	[2A]-2A-13A-[66A]-66A		
3CC#154	[4A]-[48C]	B48 SCC Only		4CC#154	[2A]-[2A]-14A-[30A]		5CC#93	5CC#80	[2A]-2A-13A-[66A]-[66A]		
3CC#155	5A-48A-[66A]	B48 SCC Only	4CC#186	4CC#155	2A-2A-14A-[66A]		5CC#84	5CC#81	[2A]-[2A]-13A-66A-66A		
3CC#156	5A-[48A]-66A	B48 SCC Only	4CC#187	4CC#156	[2A]-2A-14A-66A		5CC#87	5CC#82	[2A]-[2A]-13A-[66A]-66A		

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO (Continued)

Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
3CC#157	5A-[48A]-[66A]	B48 SCC Only	4CC#188	4CC#157	[2A]-2A-14A-[66A]		5CC#88	5CC#83	[2A]-[2A]-13A-[66A]-[66A]		
3CC#158	5A-[48C]	B48 SCC Only	4CC#193	4CC#158	[2A]-[2A]-14A-66A		5CC#91	5CC#84	2A-2A-14A-30A-[66A]		
3CC#159	5A-[66B]		4CC#196	4CC#159	[2A]-[2A]-14A-[66A]		5CC#92	5CC#85	2A-2A-14A-[30A]-66A		
3CC#160	13A-48A-[66A]	B48 SCC Only	4CC#199	4CC#160	2A-2A-29A-[30A]	B29 SCC Only		5CC#86	2A-2A-14A-[30A]-[66A]		
3CC#161	13A-[48A]-66A	B48 SCC Only	4CC#200	4CC#161	[2A]-2A-29A-30A	B29 SCC Only		5CC#87	[2A]-2A-14A-30A-66A		
3CC#162	13A-[48A]-[66A]	B48 SCC Only	4CC#201	4CC#162	[2A]-2A-29A-[30A]	B29 SCC Only		5CC#88	[2A]-2A-14A-30A-[66A]		
3CC#163	13A-[48B]	B48 SCC Only		4CC#163	[2A]-[2A]-29A-30A	B29 SCC Only		5CC#89	[2A]-2A-14A-[30A]-66A		
3CC#164	13A-[48C]	B48 SCC Only	4CC#206	4CC#164	[2A]-[2A]-29A-[30A]	B29 SCC Only		5CC#90	[2A]-2A-14A-[30A]-[66A]		
3CC#165	14A-30A-[66A]		4CC#215	4CC#165	2A-2A-29A-[66A]	B29 SCC Only		5CC#91	[2A]-[2A]-14A-30A-66A		
3CC#166	14A-[30A]-66A		4CC#216	4CC#166	[2A]-2A-29A-66A	B29 SCC Only		5CC#92	[2A]-[2A]-14A-30A-[66A]		
3CC#167	14A-[30A]-[66A]		4CC#217	4CC#167	[2A]-2A-29A-[66A]	B29 SCC Only		5CC#93	[2A]-[2A]-14A-[30A]-66A		
3CC#168	14A-[66A]-66A		4CC#222	4CC#168	[2A]-[2A]-29A-66A	B29 SCC Only		5CC#94	[2A]-[2A]-14A-[30A]-[66A]		
3CC#169	14A-[66A]-[66A]		4CC#223	4CC#169	[2A]-[2A]-29A-[66A]	B29 SCC Only		5CC#95	2A-2A-14A-[66A]-66A		
3CC#170	25A-[41C]	B41 SCC Only		4CC#170	2A-2A-30A-[66A]		5CC#49	5CC#96	2A-2A-14A-[66A]-[66A]		
3CC#171	[25A]-41C	B41 SCC Only		4CC#171	2A-2A-[30A]-66A		5CC#50	5CC#97	[2A]-2A-14A-66A-66A		
3CC#172	[25A]-[41C]	B41 SCC Only		4CC#172	2A-2A-[30A]-[66A]		5CC#51	5CC#98	[2A]-2A-14A-[66A]-66A		
3CC#173	29A-30A-[66A]	B29 SCC Only	4CC#227	4CC#173	[2A]-2A-30A-66A		5CC#52	5CC#99	[2A]-2A-14A-[66A]-[66A]		
3CC#174	29A-[30A]-66A	B29 SCC Only	4CC#228	4CC#174	[2A]-2A-30A-[66A]		5CC#53	5CC#100	[2A]-[2A]-14A-66A-66A		
3CC#175	29A-[30A]-[66A]	B29 SCC Only	4CC#229	4CC#175	[2A]-2A-[30A]-66A		5CC#54	5CC#101	[2A]-[2A]-14A-[66A]-66A		
3CC#176	29A-[66A]-66A	B29 SCC Only	4CC#234	4CC#176	[2A]-2A-[30A]-[66A]		5CC#55	5CC#102	[2A]-[2A]-14A-[66A]-[66A]		
3CC#177	29A-[66A]-[66A]	B29 SCC Only	4CC#235	4CC#177	[2A]-[2A]-30A-66A		5CC#56	5CC#103	2A-5A-48A-[66A]-66A	B48 SCC Only	
3CC#178	41A-[41C]			4CC#178	[2A]-[2A]-30A-[66A]		5CC#57	5CC#104	2A-5A-48A-[66A]-[66A]	B48 SCC Only	
3CC#179	[41A]-41C			4CC#179	[2A]-[2A]-[30A]-66A		5CC#58	5CC#105	2A-5A-[48A]-66A-66A	B48 SCC Only	
3CC#180	[41A]-[41C]			4CC#180	[2A]-[2A]-[30A]-[66A]		5CC#59	5CC#106	2A-5A-[48A]-[66A]-66A	B48 SCC Only	
3CC#181	[41D]			4CC#181	2A-2A-[66B]		5CC#60	5CC#107	2A-5A-[48A]-[66A]-[66A]	B48 SCC Only	
3CC#182	48A-48A-[66A]	B48 SCC Only	4CC#239	4CC#182	[2A]-2A-66B		5CC#61	5CC#108	[2A]-5A-48A-66A-66A	B48 SCC Only	
3CC#183	[48A]-48A-66A	B48 SCC Only	4CC#240	4CC#183	[2A]-2A-[66B]		5CC#62	5CC#109	[2A]-5A-48A-[66A]-66A	B48 SCC Only	
3CC#184	[48A]-48A-[66A]	B48 SCC Only	4CC#241	4CC#184	[2A]-[2A]-66B		5CC#63	5CC#110	[2A]-5A-48A-[66A]-[66A]	B48 SCC Only	
3CC#185	[48A]-[48A]-66A	B48 SCC Only	4CC#242	4CC#185	[2A]-[2A]-[66B]		5CC#64	5CC#111	[2A]-5A-[48A]-66A-66A	B48 SCC Only	
3CC#186	[48A]-[48A]-[66A]	B48 SCC Only	4CC#243	4CC#186	2A-5A-48A-[66A]	B48 SCC Only	5CC#103	5CC#112	[2A]-5A-[48A]-[66A]-66A	B48 SCC Only	
3CC#187	[48A]-48A-71A	B48 SCC Only		4CC#187	2A-5A-[48A]-66A	B48 SCC Only	5CC#105	5CC#113	[2A]-5A-[48A]-[66A]-[66A]	B48 SCC Only	
3CC#188	[48A]-[48A]-71A	B48 SCC Only		4CC#188	2A-5A-[48A]-[66A]	B48 SCC Only	5CC#106	5CC#114	2A-5A-48C-[66A]	B48 SCC Only	6CC#1
3CC#189	48A-[48C]			4CC#189	[2A]-5A-48A-66A	B48 SCC Only	5CC#108	5CC#115	2A-5A-[48C]-66A	B48 SCC Only	6CC#3
3CC#190	[48A]-48C			4CC#190	[2A]-5A-48A-[66A]	B48 SCC Only	5CC#109	5CC#116	2A-5A-[48C]-[66A]	B48 SCC Only	6CC#4
3CC#191	[48A]-[48C]			4CC#191	[2A]-5A-[48A]-66A	B48 SCC Only	5CC#111	5CC#117	[2A]-5A-48C-66A	B48 SCC Only	6CC#6
3CC#192	48A-[66A]-66A	B48 SCC Only	4CC#257	4CC#192	[2A]-5A-[48A]-[66A]	B48 SCC Only	5CC#112	5CC#118	[2A]-5A-48C-[66A]	B48 SCC Only	6CC#7
3CC#193	48A-[66A]-[66A]	B48 SCC Only	4CC#258	4CC#193	2A-5A-[48C]	B48 SCC Only	5CC#115	5CC#119	[2A]-5A-[48C]-66A	B48 SCC Only	6CC#9
3CC#194	[48A]-66A-66A	B48 SCC Only	4CC#259	4CC#194	[2A]-5A-48C	B48 SCC Only	5CC#117	5CC#120	[2A]-5A-[48C]-[66A]	B48 SCC Only	6CC#10

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO (Continued)

Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
3CC#195	[48A]-[66A]-66A	B48 SCC Only	4CC#260	4CC#195	[2A]-5A-[48C]	B48 SCC Only	5CC#119	5CC#121	2A-5A-[48D]	B48 SCC Only	
3CC#196	[48A]-[66A]-[66A]	B48 SCC Only	4CC#261	4CC#196	2A-5A-[66B]		5CC#60	5CC#122	[2A]-5A-48D	B48 SCC Only	
3CC#197	48A-[66B]	B48 SCC Only	4CC#298	4CC#197	[2A]-5A-66B		5CC#61	5CC#123	[2A]-5A-[48D]	B48 SCC Only	
3CC#198	[48A]-66B	B48 SCC Only	4CC#299	4CC#198	[2A]-5A-[66B]		5CC#62	5CC#124	2A-12B-[66A]-66A		
3CC#199	[48A]-[66B]	B48 SCC Only	4CC#300	4CC#199	2A-13A-48A-[66A]	B48 SCC Only		5CC#125	2A-12B-[66A]-[66A]		
3CC#200	48A-[66C]	B48 SCC Only	4CC#301	4CC#200	2A-13A-[48A]-66A	B48 SCC Only		5CC#126	[2A]-12B-66A-66A		
3CC#201	[48A]-66C	B48 SCC Only	4CC#302	4CC#201	2A-13A-[48A]-[66A]	B48 SCC Only		5CC#127	[2A]-12B-[66A]-66A		
3CC#202	[48A]-[66C]	B48 SCC Only	4CC#303	4CC#202	[2A]-13A-48A-66A	B48 SCC Only		5CC#128	[2A]-12B-[66A]-[66A]		
3CC#203	48B-[66A]	B48 SCC Only		4CC#203	[2A]-13A-48A-[66A]	B48 SCC Only		5CC#129	2A-13A-48C-[66A]	B48 SCC Only	
3CC#204	[48B]-66A	B48 SCC Only		4CC#204	[2A]-13A-[48A]-66A	B48 SCC Only		5CC#130	2A-13A-[48C]-66A	B48 SCC Only	
3CC#205	[48B]-[66A]	B48 SCC Only		4CC#205	[2A]-13A-[48A]-[66A]	B48 SCC Only		5CC#131	2A-13A-[48C]-[66A]	B48 SCC Only	
3CC#206	48C-[66A]	B48 SCC Only	4CC#268	4CC#206	2A-13A-[48C]	B48 SCC Only	5CC#130	5CC#132	[2A]-13A-48C-66A	B48 SCC Only	
3CC#207	[48C]-66A	B48 SCC Only	4CC#269	4CC#207	[2A]-13A-48C	B48 SCC Only	5CC#132	5CC#133	[2A]-13A-48C-[66A]	B48 SCC Only	
3CC#208	[48C]-[66A]	B48 SCC Only	4CC#270	4CC#208	[2A]-13A-[48C]	B48 SCC Only	5CC#134	5CC#134	[2A]-13A-[48C]-66A	B48 SCC Only	
3CC#209	[48C]-71A	B48 SCC Only		4CC#209	2A-13A-[66B]			5CC#135	[2A]-13A-[48C]-[66A]	B48 SCC Only	
3CC#210	[48D]		4CC#336	4CC#210	[2A]-13A-66B			5CC#136	2A-13A-[48D]	B48 SCC Only	
				4CC#211	[2A]-13A-[66B]			5CC#137	[2A]-13A-48D	B48 SCC Only	
				4CC#212	2A-13A-[66C]			5CC#138	[2A]-13A-[48D]	B48 SCC Only	
				4CC#213	[2A]-13A-66C			5CC#139	2A-14A-30A-[66A]-66A		
				4CC#214	[2A]-13A-[66C]			5CC#140	2A-14A-30A-[66A]-[66A]		
				4CC#215	2A-14A-30A-[66A]		5CC#84	5CC#141	2A-14A-[30A]-66A-66A		
				4CC#216	2A-14A-[30A]-66A		5CC#85	5CC#142	2A-14A-[30A]-[66A]-66A		
				4CC#217	2A-14A-[30A]-[66A]		5CC#86	5CC#143	2A-14A-[30A]-[66A]-[66A]		
				4CC#218	[2A]-14A-30A-66A		5CC#87	5CC#144	[2A]-14A-30A-66A-66A		
				4CC#219	[2A]-14A-30A-[66A]		5CC#88	5CC#145	[2A]-14A-30A-[66A]-66A		
				4CC#220	[2A]-14A-[30A]-66A		5CC#89	5CC#146	[2A]-14A-30A-[66A]-[66A]		
				4CC#221	[2A]-14A-[30A]-[66A]		5CC#90	5CC#147	[2A]-14A-[30A]-66A-66A		
				4CC#222	2A-14A-[66A]-66A		5CC#95	5CC#148	[2A]-14A-[30A]-[66A]-66A		
				4CC#223	2A-14A-[66A]-[66A]		5CC#96	5CC#149	[2A]-14A-[30A]-[66A]-[66A]		
				4CC#224	[2A]-14A-66A-66A		5CC#97	5CC#150	2A-48A-48C-[66A]	B48 SCC Only	
				4CC#225	[2A]-14A-[66A]-66A		5CC#98	5CC#151	2A-48A-[48C]-66A	B48 SCC Only	
				4CC#226	[2A]-14A-[66A]-[66A]		5CC#99	5CC#152	2A-48A-[48C]-[66A]	B48 SCC Only	
				4CC#227	2A-29A-30A-[66A]	B29 SCC Only		5CC#153	2A-[48A]-48C-66A	B48 SCC Only	
				4CC#228	2A-29A-[30A]-66A	B29 SCC Only		5CC#154	2A-[48A]-48C-[66A]	B48 SCC Only	
				4CC#229	2A-29A-[30A]-[66A]	B29 SCC Only		5CC#155	2A-[48A]-[48C]-66A	B48 SCC Only	
				4CC#230	[2A]-29A-30A-66A	B29 SCC Only		5CC#156	2A-[48A]-[48C]-[66A]	B48 SCC Only	
				4CC#231	[2A]-29A-30A-[66A]	B29 SCC Only		5CC#157	[2A]-48A-48C-66A	B48 SCC Only	
				4CC#232	[2A]-29A-[30A]-66A	B29 SCC Only		5CC#158	[2A]-48A-48C-[66A]	B48 SCC Only	
				4CC#233	[2A]-29A-[30A]-[66A]	B29 SCC Only		5CC#159	[2A]-48A-[48C]-66A	B48 SCC Only	
				4CC#234	2A-29A-[66A]-66A	B29 SCC Only		5CC#160	[2A]-48A-[48C]-[66A]	B48 SCC Only	
				4CC#235	2A-29A-[66A]-[66A]	B29 SCC Only		5CC#161	[2A]-[48A]-48C-66A	B48 SCC Only	
				4CC#236	[2A]-29A-66A-66A	B29 SCC Only		5CC#162	[2A]-[48A]-48C-[66A]	B48 SCC Only	
				4CC#237	[2A]-29A-[66A]-66A	B29 SCC Only		5CC#163	[2A]-[48A]-[48C]-66A	B48 SCC Only	
				4CC#238	[2A]-29A-[66A]-[66A]	B29 SCC Only		5CC#164	[2A]-[48A]-[48C]-[66A]	B48 SCC Only	
				4CC#239	2A-48A-48A-[66A]	B48 SCC Only		5CC#165	2A-[48C]-48C	B48 SCC Only	
				4CC#240	2A-[48A]-48A-66A	B48 SCC Only		5CC#166	2A-[48C]-[48C]	B48 SCC Only	
				4CC#241	2A-[48A]-48A-[66A]	B48 SCC Only		5CC#167	[2A]-48C-48C	B48 SCC Only	
				4CC#242	2A-[48A]-[48A]-66A	B48 SCC Only		5CC#168	[2A]-[48C]-48C	B48 SCC Only	
				4CC#243	2A-[48A]-[48A]-[66A]	B48 SCC Only		5CC#169	[2A]-[48C]-[48C]	B48 SCC Only	

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO (Continued)

Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset	Index	6CC	Restriction	Completely Covered by Measurement Superset
4CC#244	[2A]-48A-48A-66A	B48 SCC Only		5CC#170	2A-48C-[66A]-66A	B48 SCC Only	6CC#1	6CC#1	2A-5A-48C-[66A]-66A	B48 SCC Only	
4CC#245	[2A]-48A-48A-[66A]	B48 SCC Only		5CC#171	2A-48C-[66A]-[66A]	B48 SCC Only	6CC#2	6CC#2	2A-5A-48C-[66A]-[66A]	B48 SCC Only	
4CC#246	[2A]-[48A]-48A-66A	B48 SCC Only		5CC#172	2A-[48C]-66A-66A	B48 SCC Only	6CC#3	6CC#3	2A-5A-[48C]-66A-66A	B48 SCC Only	
4CC#247	[2A]-[48A]-48A-[66A]	B48 SCC Only		5CC#173	2A-[48C]-[66A]-66A	B48 SCC Only	6CC#4	6CC#4	2A-5A-[48C]-[66A]-66A	B48 SCC Only	
4CC#248	[2A]-[48A]-[48A]-66A	B48 SCC Only		5CC#174	2A-[48C]-[66A]-[66A]	B48 SCC Only	6CC#5	6CC#5	2A-5A-[48C]-[66A]-[66A]	B48 SCC Only	
4CC#249	[2A]-[48A]-[48A]-[66A]	B48 SCC Only		5CC#175	[2A]-48C-66A-66A	B48 SCC Only	6CC#6	6CC#6	[2A]-5A-48C-66A-66A	B48 SCC Only	
4CC#250	2A-48A-[48C]	B48 SCC Only	5CC#151	5CC#176	[2A]-48C-[66A]-66A	B48 SCC Only	6CC#7	6CC#7	[2A]-5A-48C-[66A]-66A	B48 SCC Only	
4CC#251	2A-[48A]-48C	B48 SCC Only	5CC#153	5CC#177	[2A]-48C-[66A]-[66A]	B48 SCC Only	6CC#8	6CC#8	[2A]-5A-48C-[66A]-[66A]	B48 SCC Only	
4CC#252	2A-[48A]-[48C]	B48 SCC Only	5CC#155	5CC#178	[2A]-[48C]-66A-66A	B48 SCC Only	6CC#9	6CC#9	[2A]-5A-[48C]-66A-66A	B48 SCC Only	
4CC#253	[2A]-48A-48C	B48 SCC Only	5CC#157	5CC#179	[2A]-[48C]-[66A]-66A	B48 SCC Only	6CC#10	6CC#10	[2A]-5A-[48C]-[66A]-66A	B48 SCC Only	
4CC#254	[2A]-48A-[48C]	B48 SCC Only	5CC#159	5CC#180	[2A]-[48C]-[66A]-[66A]	B48 SCC Only			2A-48E-[66A]	B48 SCC Only	
4CC#255	[2A]-[48A]-48C	B48 SCC Only	5CC#161	5CC#181	2A-48D-[66A]	B48 SCC Only			2A-[48E]-66A	B48 SCC Only	
4CC#256	[2A]-[48A]-[48C]	B48 SCC Only	5CC#163	5CC#182	2A-[48D]-66A	B48 SCC Only			[2A]-48E-66A	B48 SCC Only	
4CC#257	2A-48A-[66A]-66A	B48 SCC Only	5CC#103	5CC#183	2A-[48D]-[66A]	B48 SCC Only			[2A]-48E-[66A]	B48 SCC Only	
4CC#258	2A-48A-[66A]-[66A]	B48 SCC Only	5CC#104	5CC#184	[2A]-48D-66A	B48 SCC Only			5A-48D-[66A]-66A	B48 SCC Only	
4CC#259	2A-[48A]-66A-66A	B48 SCC Only	5CC#105	5CC#185	[2A]-48D-[66A]	B48 SCC Only			5A-48D-[66A]-[66A]	B48 SCC Only	
4CC#260	2A-[48A]-[66A]-66A	B48 SCC Only	5CC#106	5CC#186	[2A]-[48D]-66A	B48 SCC Only			5A-[48D]-66A-66A	B48 SCC Only	
4CC#261	2A-[48A]-[66A]-[66A]	B48 SCC Only	5CC#107	5CC#187	[2A]-[48D]-[66A]	B48 SCC Only			5A-[48D]-[66A]-66A	B48 SCC Only	
4CC#262	[2A]-48A-66A-66A	B48 SCC Only	5CC#108	5CC#188	2A-[48E]	B48 SCC Only	6CC#12		13A-48E-[66A]	B48 SCC Only	
4CC#263	[2A]-48A-[66A]-66A	B48 SCC Only	5CC#109	5CC#189	[2A]-48E	B48 SCC Only	6CC#13		13A-[48E]-66A	B48 SCC Only	
4CC#264	[2A]-48A-[66A]-[66A]	B48 SCC Only	5CC#110	5CC#190	[2A]-[48E]	B48 SCC Only					
4CC#265	[2A]-[48A]-66A-66A	B48 SCC Only	5CC#111	5CC#191	4A-[48E]						
4CC#266	[2A]-[48A]-[66A]-66A	B48 SCC Only	5CC#112	5CC#192	[4A]-48E						
4CC#267	[2A]-[48A]-[66A]-[66A]	B48 SCC Only	5CC#113	5CC#193	[4A]-[48E]						
4CC#268	2A-48C-[66A]	B48 SCC Only	5CC#114	5CC#194	5A-48C-[66A]-66A	B48 SCC Only	6CC#1				
4CC#269	2A-[48C]-66A	B48 SCC Only	5CC#115	5CC#195	5A-48C-[66A]-[66A]	B48 SCC Only	6CC#2				
4CC#270	2A-[48C]-[66A]	B48 SCC Only	5CC#116	5CC#196	5A-[48C]-66A-66A	B48 SCC Only	6CC#3				
4CC#271	[2A]-48C-66A	B48 SCC Only	5CC#117	5CC#197	5A-[48C]-[66A]-66A	B48 SCC Only	6CC#4				
4CC#272	[2A]-48C-[66A]	B48 SCC Only	5CC#118	5CC#198	5A-[48C]-[66A]-[66A]	B48 SCC Only	6CC#5				
4CC#273	[2A]-[48C]-66A	B48 SCC Only	5CC#119	5CC#199	5A-48D-[66A]	B48 SCC Only	6CC#15				
4CC#274	[2A]-[48C]-[66A]	B48 SCC Only	5CC#120	5CC#200	5A-[48D]-66A	B48 SCC Only	6CC#17				
4CC#275	2A-[48D]	B48 SCC Only	5CC#121	5CC#201	5A-[48D]-[66A]	B48 SCC Only	6CC#18				
4CC#276	[2A]-48D	B48 SCC Only	5CC#122	5CC#202	13A-48D-[66A]	B48 SCC Only					
4CC#277	[2A]-[48D]	B48 SCC Only	5CC#123	5CC#203	13A-[48D]-66A	B48 SCC Only					
4CC#278	2C-[66A]-66A			5CC#204	13A-[48D]-[66A]	B48 SCC Only					
4CC#279	2C-[66A]-[66A]			5CC#205	13A-[48E]	B48 SCC Only	6CC#20				
4CC#280	[2C]-66A-66A			5CC#206	48C-48C-[66A]	B48 SCC Only					
4CC#281	[2C]-[66A]-66A			5CC#207	[48C]-48C-66A	B48 SCC Only					
4CC#282	[2C]-[66A]-[66A]			5CC#208	[48C]-48C-[66A]	B48 SCC Only					
4CC#283	2A-[66C]-71A			5CC#209	[48C]-[48C]-66A	B48 SCC Only					
4CC#284	[2A]-66C-71A			5CC#210	[48C]-[48C]-[66A]	B48 SCC Only					
4CC#285	[2A]-[66C]-71A			5CC#211	48A-48D-[66A]	B48 SCC Only					
4CC#286	4A-[48D]	B48 SCC Only		5CC#212	48A-[48D]-66A	B48 SCC Only					
4CC#287	[4A]-48D	B48 SCC Only		5CC#213	48A-[48D]-[66A]	B48 SCC Only					
4CC#288	[4A]-[48D]	B48 SCC Only		5CC#214	[48A]-48D-66A	B48 SCC Only					
4CC#289	5A-48A-[66A]-66A	B48 SCC Only	5CC#103	5CC#215	[48A]-48D-[66A]	B48 SCC Only					
4CC#290	5A-48A-[66A]-[66A]	B48 SCC Only	5CC#104	5CC#216	[48A]-[48D]-66A	B48 SCC Only					
4CC#291	5A-[48A]-66A-66A	B48 SCC Only	5CC#105	5CC#217	[48A]-[48D]-[66A]	B48 SCC Only					
4CC#292	5A-[48A]-[66A]-66A	B48 SCC Only	5CC#106	5CC#218	48A-[48E]						
4CC#293	5A-[48A]-[66A]-[66A]	B48 SCC Only	5CC#107	5CC#219	[48A]-48E						
4CC#294	5A-48C-[66A]	B48 SCC Only	5CC#114	5CC#216	[48A]-[48D]-66A	B48 SCC Only					

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO (Continued)

Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
4CC#295	5A-[48C]-66A	B48 SCC Only	5CC#115	5CC#217	[48A]-[48D]-[66A]	B48 SCC Only	
4CC#296	5A-[48C]-[66A]	B48 SCC Only	5CC#116	5CC#218	48A-[48E]		
4CC#297	5A-[48D]	B48 SCC Only	5CC#121	5CC#219	[48A]-48E		
4CC#298	13A-48A-[66B]	B48 SCC Only		5CC#220	[48A]-[48E]		
4CC#299	13A-[48A]-66B	B48 SCC Only		5CC#221	48C-[48D]		
4CC#300	13A-[48A]-[66B]	B48 SCC Only		5CC#222	[48C]-48D		
4CC#301	13A-48A-[66C]	B48 SCC Only		5CC#223	[48C]-[48D]		
4CC#302	13A-[48A]-66C	B48 SCC Only		5CC#224	48E-[66A]		6CC#11
4CC#303	13A-[48A]-[66C]	B48 SCC Only		5CC#225	[48E]-66A		6CC#12
4CC#304	13A-48C-[66A]	B48 SCC Only	5CC#129	5CC#226	[48E]-[66A]		
4CC#305	13A-[48C]-66A	B48 SCC Only	5CC#130				
4CC#306	13A-[48C]-[66A]	B48 SCC Only	5CC#131				
4CC#307	13A-[48D]	B48 SCC Only	5CC#136				
4CC#308	14A-30A-[66A]-66A		5CC#139				
4CC#309	14A-30A-[66A]-[66A]		5CC#140				
4CC#310	14A-[30A]-66A-66A		5CC#141				
4CC#311	14A-[30A]-[66A]-66A		5CC#142				
4CC#312	14A-[30A]-[66A]-[66A]		5CC#143				
4CC#313	25A-[41D]	B41 SCC Only					
4CC#314	[25A]-41D	B41 SCC Only					
4CC#315	[25A]-[41D]	B41 SCC Only					
4CC#316	29A-30A-[66A]-66A	B29 SCC Only					
4CC#317	29A-30A-[66A]-[66A]	B29 SCC Only					
4CC#318	29A-[30A]-66A-66A	B29 SCC Only					
4CC#319	29A-[30A]-[66A]-66A	B29 SCC Only					
4CC#320	29A-[30A]-[66A]-[66A]	B29 SCC Only					
4CC#321	48A-48A-[66A]-66A	B48 SCC Only					
4CC#322	48A-48A-[66A]-[66A]	B48 SCC Only					
4CC#323	[48A]-48A-66A-66A	B48 SCC Only					
4CC#324	[48A]-48A-[66A]-66A	B48 SCC Only					
4CC#325	[48A]-48A-[66A]-[66A]	B48 SCC Only					
4CC#326	[48A]-[48A]-66A-66A	B48 SCC Only					
4CC#327	[48A]-[48A]-[66A]-66A	B48 SCC Only					
4CC#328	[48A]-[48A]-[66A]-[66A]	B48 SCC Only					
4CC#329	48A-48C-[66A]	B48 SCC Only	5CC#150				
4CC#330	48A-[48C]-66A	B48 SCC Only	5CC#151				
4CC#331	48A-[48C]-[66A]	B48 SCC Only	5CC#152				
4CC#332	[48A]-48C-66A	B48 SCC Only	5CC#153				
4CC#333	[48A]-48C-[66A]	B48 SCC Only	5CC#154				
4CC#334	[48A]-[48C]-66A	B48 SCC Only	5CC#155				
4CC#335	[48A]-[48C]-[66A]	B48 SCC Only	5CC#156				
4CC#336	48A-[48D]						
4CC#337	[48A]-48D						
4CC#338	[48A]-[48D]						
4CC#339	[48C]-48C						
4CC#340	[48C]-[48C]						
4CC#341	48C-[66A]-66A	B48 SCC Only	5CC#170				
4CC#342	48C-[66A]-[66A]	B48 SCC Only	5CC#171				
4CC#343	[48C]-66A-66A	B48 SCC Only	5CC#172				
4CC#344	[48C]-[66A]-66A	B48 SCC Only	5CC#173				
4CC#345	[48C]-[66A]-[66A]	B48 SCC Only	5CC#174				
4CC#346	48C-[66B]	B48 SCC Only					
4CC#347	[48C]-66B	B48 SCC Only					
4CC#348	[48C]-[66B]	B48 SCC Only					
4CC#349	48C-[66C]	B48 SCC Only					
4CC#350	[48C]-66C	B48 SCC Only					
4CC#351	[48C]-[66C]	B48 SCC Only					
4CC#352	48D-[66A]	B48 SCC Only	5CC#181				
4CC#353	[48D]-66A	B48 SCC Only	5CC#182				
4CC#354	[48D]-[66A]	B48 SCC Only	5CC#183				
4CC#355	[48E]		5CC#218				

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

Single Carrier Downlink 4x4 MIMO output power results

LTE Bands	Modulation	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	LTE Rel 8 Tx. Power [dBm]	DL 4x4 MIMO Tx. Power [dBm]	Delta
2	QPSK	20	18700	1860	1/49	24.12	24.11	-0.01
4	QPSK	20	20300	1745	1/49	23.91	23.88	-0.03
25	QPSK	20	26140	1860	1/0	24.07	24.01	-0.06
30	QPSK	10	27710	2310	1/25	23.01	22.97	-0.04
41	QPSK	20	41055	2636.5	1/0	24.38	24.33	-0.05
48	QPSK	20	56640	3690	1/0	23.16	23.11	-0.05
66	QPSK	20	132572	1770	1/0	24.02	24.01	-0.01

Note:

According to LTE Test Conditions in TCB workshop (May, 2017), SAR is excluded for LTE downlink 4x4 MIMO operation when uplink output with DL MIMO does not exceed highest uplink output power configuration without DL MIMO by more than 1/4 dB. And for DL MIMO with carrier aggregation, the same SAR test exclusion procedure is considered.

EUTRA CA configuration (BCS)	Bands							UL				DL												LTE Rel 8 Tx Power [dBm]	LTE Rel 8 Rx Power [dBm]	Delta												
	PCC	SCC1	SCC2	SCC3	SCC4	SCC5	SCC6	PCC				SCC1				SCC2				SCC3							SCC4				SCC5				SCC6			
								Band	Mode	BW (MHz)	Channel	Freq. (MHz)	RB Allocation	RB offset	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band				BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band
2A	2nd	3rd	4th	5th	6th	7th	Band	Mode	BW (MHz) <td>Channel</td> <td>Freq. (MHz)<td>RB Allocation<td>RB offset</td><td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td></td></td></td></td></td></td></td></td>	Channel	Freq. (MHz) <td>RB Allocation<td>RB offset</td><td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td></td></td></td></td></td></td></td>	RB Allocation <td>RB offset</td> <td>Band</td> <td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td></td></td></td></td></td></td>	RB offset	Band	BW (MHz) <td>Channel</td> <td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td></td></td></td></td></td>	Channel	Freq. (MHz) <td>Band</td> <td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td></td></td></td></td>	Band	BW (MHz) <td>Channel</td> <td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td></td></td></td>	Channel	Freq. (MHz) <td>Band</td> <td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td></td></td>	Band	BW (MHz) <td>Channel</td> <td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td></td>	Channel	Freq. (MHz) <td>Band</td> <td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td></td>	Band	BW (MHz) <td>Channel</td> <td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td></td>	Channel	Freq. (MHz) <td>Band</td> <td>BW (MHz)<td>Channel</td><td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td></td>	Band	BW (MHz) <td>Channel</td> <td>Freq. (MHz)<td>Band</td><td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td></td>	Channel	Freq. (MHz) <td>Band</td> <td>BW (MHz)<td>Channel</td><td>Freq. (MHz)</td></td>	Band	BW (MHz) <td>Channel</td> <td>Freq. (MHz)</td>	Channel	Freq. (MHz)	
2A-2A-5A-66B	2A	2nd	2A	5A	66B	66B	2	QPSK	20	18700	1860	1	49	2	20	700	1940	12	5	5095	737.5	66	20	700	1940	12	5	5095	737.5	66	20	700	1940	12	5	5095	737.5	
	5A	66B	66B	2A	2A	2A	5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	66	15	67061	2172.5	66	5	66968	2163.2	66	20	700	1940	2	20	1100	1980	12	5	5095	737.5	
	66B	66B	2A	2A	2A	5A	66	QPSK	15	132597	1772.5	1	0	66	15	67061	2172.5	66	5	66968	2163.2	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	66	20	700	1940	
	2A	2A	12A	30A	66A		2	QPSK	20	18700	1860	1	49	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	66	20	700	1940	2	20	1100	1980	
2A-2A-12A-30A-66A	12A	30A	66A	2A	2A	2A	12	QPSK	10	23095	707.5	1	0	12	10	5095	737.5	30	10	9820	2355	66	20	700	1940	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	
	30A	66A	2A	2A	2A	12A	30	QPSK	10	27710	2310	1	25	30	10	9820	2355	66	20	700	1940	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	66	20	700	1940	
	66A	2A	2A	12A	30A		66	QPSK	20	132572	1770	1	0	66	20	67036	2170	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	66	20	700	1940	
	2A	2A	13A	66A	66A		2	QPSK	20	18700	1860	1	49	2	20	700	1940	2	20	1100	1980	13	10	5230	751	66	20	700	1940	2	20	1100	1980	12	10	5095	737.5	
2A-2A-13A-66A-66A	13A	66A	66A	2A	2A	2A	13	QPSK	10	23230	782	1	25	13	10	5230	751	66	20	67036	2170	66	20	66536	2120	2	20	700	1940	2	20	1100	1980	12	10	5095	737.5	
	66A	66A	2A	2A	13A		66	QPSK	20	132572	1770	1	0	66	20	67036	2170	66	20	66536	2120	2	20	700	1940	2	20	1100	1980	13	10	5230	751	66	20	700	1940	
	2A	2A	14A	30A	66A		2	QPSK	20	18700	1860	1	49	2	20	700	1940	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	66	20	700	1940	2	20	1100	1980	
	14A	30A	66A	2A	2A	14A	14	QPSK	10																													

Note:

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2. When the same frequency band is used for both contiguous and non-contiguous in DL CA Intra band, power was measured using the configuration with the largest aggregated bandwidth and maximum output power among the contiguous and non-contiguous in DL CA Intra band configurations. .

[illegible]

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e-UTRA CA configuration (BCS)	Bands							UL										DL										LTE Ref 1 Tx Power [dBm]			LTE Ref 1 Tx Power [dBm]			Delta			
	PCC	SCC1	SCC2	SCC3	SCC4	SCC5	SCC8	PCC							SCC1			SCC2			SCC3			SCC4			SCC5			SCC8							
	1st	2nd	3rd	4th	5th	6th	7th	Band	Mode	BW [MHz]	Channel	Freq. [MHz]	RB Allocation	RB offset	Band	Mode	BW [MHz]	Channel	Freq. [MHz]	Band	Mode	BW [MHz]	Channel	Freq. [MHz]	Band	Mode	BW [MHz]	Channel	Freq. [MHz]	Band	Mode	BW [MHz]	Channel		Freq. [MHz]		
2A-12A-[66C]	2A	12A	[66C]	[66C]				2	QPSK	20	18700	1560	1	49	2	20	700	1940	12	10	5095	737.5	[66]	20	67036	2170	[66]	20	67036	2170	[66]	20	66838	2150.2	2412	24.08	-0.04
	12A	[66C]	[66C]	2A				12	QPSK	10	23095	707.5	1	0	12	10	5095	737.5	[66]	20	67036	2170	[66]	20	66838	2150.2	2	20	700	1940		242	24.17	-0.09			
	[66C]	[66C]	2A	12A				[66]	QPSK	20	12572	1770	1	0	[66]	20	67036	2170	[66]	20	66838	2150.2	2	20	700	1940	12	10	5095	737.5		2402	23.87	-0.15			
	12A	66C	66C	[66C]				[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	12	10	5095	737.5	66	20	67036	2170	66	20	66838	2150.2		2412	24.09	-0.03			
	12A	66C	66C	[2A]				12	QPSK	10	23095	707.5	1	0	12	10	5095	737.5	66	20	67036	2170	66	20	66838	2150.2	[2]	20	700	1940		242	24.14	-0.06			
	66C	66C	[2A]	12A				66	QPSK	20	12572	1770	1	0	66	20	67036	2170	66	20	66838	2150.2	[2]	20	700	1940	12	10	5095	737.5		2402	23.97	-0.05			
[2A]-12A-[66C]	[2A]	12A	[66C]	[66C]				[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	12	10	5095	737.5	[66]	20	67036	2170	[66]	20	67036	2170	[66]	20	66838	2150.2	2412	23.98	-0.14
	12A	[66C]	[66C]	[2A]				12	QPSK	10	23095	707.5	1	0	12	10	5095	737.5	[66]	20	67036	2170	[66]	20	66838	2150.2	[2]	20	700	1940		242	24.17	-0.03			
	[66C]	[66C]	[2A]	12A				[66C]	QPSK	20	12572	1770	1	0	[66]	20	67036	2170	[66]	20	66838	2150.2	[2]	20	700	1940	12	10	5095	737.5		2402	23.97	-0.05			
	2A	[66A]	66A	71A				2	QPSK	20	18700	1860	1	49	2	20	700	1940	166	20	67036	2170	66	20	66536	2120	71	20	68761	634.5		2412	24.11	-0.01			
	[66A]	66A	71A	2A				[66A]	QPSK	20	12572	1770	1	0	[66]	20	67036	2170	66	20	66536	2120	71	20	68761	634.5	2	20	700	1940		2402	24	-0.02			
	66A	71A	2A	[66A]				66	QPSK	20	12572	1770	1	0	66	20	67036	2170	71	20	68761	634.5	2	20	700	1940	[66]	20	66536	2120		2402	24.01	-0.01			
2A-[66A]-66A-71A	2A	[66A]	66A	71A				2	QPSK	20	18700	1860	1	49	2	20	700	1940	166	20	67036	2170	66	20	66536	2120	71	20	68761	634.5		2402	24	-0.02			
	[66A]	66A	71A	2A				[66A]	QPSK	20	12572	1770	1																								

Note:

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2. When the same frequency band is used for both contiguous and non-contiguous in DL CA Intra band, power was measured using the configuration with the largest aggregated bandwidth and maximum output power among the contiguous and non-contiguous in DL CA Intra band configurations.

[illegible]

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[illegible]

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e-UTRA CA configuration (BCS)	Bands							UL							PCC							SCC1							SCC2							DL							SCC4				SCC5				SCC6				SCC7				SCC8				SCC9				SCC10				SCC11				SCC12				SCC13				SCC14				SCC15				SCC16				SCC17				SCC18				SCC19				SCC20				SCC21				SCC22				SCC23				SCC24				SCC25				SCC26				SCC27				SCC28				SCC29				SCC30				SCC31				SCC32				SCC33				SCC34				SCC35				SCC36				SCC37				SCC38				SCC39				SCC40				SCC41				SCC42				SCC43				SCC44				SCC45				SCC46				SCC47				SCC48				SCC49				SCC50				SCC51				SCC52				SCC53				SCC54				SCC55				SCC56				SCC57				SCC58				SCC59				SCC60				SCC61				SCC62				SCC63				SCC64				SCC65				SCC66				SCC67				SCC68				SCC69				SCC70				SCC71				SCC72				SCC73				SCC74				SCC75				SCC76				SCC77				SCC78				SCC79				SCC80				SCC81				SCC82				SCC83				SCC84				SCC85				SCC86				SCC87				SCC88				SCC89				SCC90				SCC91				SCC92				SCC93				SCC94				SCC95				SCC96				SCC97				SCC98				SCC99				SCC100				SCC101				SCC102				SCC103				SCC104				SCC105				SCC106				SCC107				SCC108				SCC109				SCC110				SCC111				SCC112				SCC113				SCC114				SCC115				SCC116				SCC117				SCC118				SCC119				SCC120				SCC121				SCC122				SCC123				SCC124				SCC125				SCC126				SCC127				SCC128				SCC129				SCC130				SCC131				SCC132				SCC133				SCC134				SCC135				SCC136				SCC137				SCC138				SCC139				SCC140				SCC141				SCC142				SCC143				SCC144				SCC145				SCC146				SCC147				SCC148				SCC149				SCC150				SCC151				SCC152				SCC153				SCC154				SCC155				SCC156				SCC157				SCC158				SCC159				SCC160				SCC161				SCC162				SCC163				SCC164				SCC165				SCC166				SCC167				SCC168				SCC169				SCC170				SCC171				SCC172				SCC173				SCC174				SCC175				SCC176				SCC177				SCC178				SCC179				SCC180				SCC181				SCC182				SCC183				SCC184				SCC185				SCC186				SCC187				SCC188				SCC189				SCC190				SCC191				SCC192				SCC193				SCC194				SCC195				SCC196				SCC197				SCC198				SCC199				SCC200				SCC201				SCC202				SCC203				SCC204				SCC205				SCC206				SCC207				SCC208				SCC209				SCC210				SCC211				SCC212				SCC213				SCC214				SCC215				SCC216				SCC217				SCC218				SCC219				SCC220				SCC221				SCC222				SCC223				SCC224				SCC225				SCC226				SCC227				SCC228				SCC229				SCC230				SCC231				SCC232				SCC233				SCC234				SCC235				SCC236				SCC237				SCC238				SCC239				SCC240				SCC241				SCC242				SCC243				SCC244				SCC245				SCC246				SCC247				SCC248				SCC249				SCC250				SCC251				SCC252				SCC253				SCC254				SCC255				SCC256				SCC257				SCC258				SCC259				SCC260				SCC261				SCC262				SCC263				SCC264				SCC265				SCC266				SCC267				SCC268				SCC269				SCC270				SCC271				SCC272				SCC273				SCC274				SCC275				SCC276				SCC277				SCC278				SCC279				SCC280				SCC281				SCC282				SCC283				SCC284				SCC285				SCC286				SCC287				SCC288				SCC289				SCC290				SCC291				SCC292				SCC293				SCC294				SCC295				SCC296				SCC297				SCC298				SCC299				SCC300				SCC301				SCC302				SCC303				SCC304				SCC305				SCC306				SCC307				SCC308				SCC309				SCC310				SCC311				SCC312				SCC313				SCC314				SCC315				SCC316				SCC317				SCC318				SCC319				SCC32			
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DL CA with 4x4 MIMO output power results (Continued)

E-UTRA CA configuration (BCS)	Bands							UL										DL										SCC4				SCC5				SCC6				LTE Rel 8 Tx Power (dBm)	LTE Rel 10 Tx Power (dBm)	Delta
	PCC		SCC2		SCC3		SCC4		SCC5		SCC6		PCC		SCC1		SCC2		SCC3		SCC4		SCC5		SCC6		SCC4		SCC5		SCC6											
	1st	2nd	3rd	4th	5th	6th	7th	Band	Mode	BW (MHz)	Channel	Freq. (MHz)	RB Allocation	RB offset	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)								
13A-48A-[66B]	13A	48A	[66B]	[66B]				13	QPSK	10	23230	782	1	0	25	13	10	5230	751	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	24.87	24.72	-0.15				
	[66B]	[66B]	48A	13A				[66B]	QPSK	15	132597	1772.5	1	0	[66B]	15	67061	2172.5	[66B]	5	66968	2163.2	48	20	66640	3690	13	10	5230	751					24.02	23.97	-0.05					
13A-[48A]-66B	13A	[48A]	66B	66B				13	QPSK	10	23230	782	1	0	25	13	10	5230	751	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	24.87	24.87	0				
	66B	66B	[48A]	13A				66	QPSK	15	132597	1772.5	1	0	66	15	67061	2172.5	66	5	66968	2163.2	48	20	66640	3690	13	10	5230	751					24.02	24.01	-0.01					
13A-[48A]-[66B]	13A	[48A]	[66B]	[66B]				13	QPSK	10	23230	782	1	0	25	13	10	5230	751	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	24.87	24.77	-0.1				
	[66B]	[66B]	[48A]	13A				[66B]	QPSK	15	132597	1772.5	1	0	[66B]	15	67061	2172.5	[66B]	5	66968	2163.2	48	20	66640	3690	13	10	5230	751					24.02	23.95	-0.07					
13A-48A-[66C]	13A	48A	[66C]	[66C]				13	QPSK	10	23230	782	1	0	25	13	10	5230	751	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	24.87	24.77	-0.1				
	[66C]	[66C]	48A	13A				[66C]	QPSK	20	132572	1770	1	0	[66C]	20	67036	2170	[66C]	20	66838	2150.2	48	20	66640	3690	13	10	5230	751					24.02	24.01	-0.01					
13A-[48A]-66C	13A	[48A]	66C	66C				13	QPSK	10	23230	782	1	0	25	13	10	5230	751	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	24.87	24.76	-0.11				
	66C	66C	[48A]	13A				66	QPSK	20	132572	1770	1	0	66	20	67036	2170	66	20	66838	2150.2	48	20	66640	3690	13	10	5230	751					24.02	23.95	-0.07					
13A-[48A]-[66C]	13A	[48A]	[66C]	[66C]				13	QPSK	10	23230	782	1	0	25	13	10	5230	751	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	48	5	66968	2163.2	24.87	24.78	-0.09				
	[66C]	[66C]	[48A]	13A				[66C]	QPSK	20	132572	1770	1	0	[66C]	20	67036	2170	[66C]	20	66838	2150.2	48	20	66640	3690	13	10	5230	751					24.02	23.91	-0.11					
25A-[41D]	25A	[41D]	[41D]	[41D]				25	QPSK	20	26140	1860	1	0	25	20	8140	1940	[41]	20	41055	2636.5	41	20	40857	2616.7	[41]	20	40857	2616.7	[41]	20	40857	2616.7	24.07	24.03	-0.04					
	[25A]-41D	[25A]	41D	41D	41D			[25]	QPSK	20	26140	1860	1	0	[25]	20	8140	1940	41	20	41055	2636.5	41	20	40857	2616.7	41	20	40857	2616.7	41	20	40857	2616.7	24.07	23.99	-0.08					
25A-[41D]	[25A]	[41D]	[41D]	[41D]				[25]	QPSK	20	26140	1860	1	0	[25]	20	8140	1940	[41]	20	41055	2636.5	41	20	40857	2616.7	[41]	20	40857	2616.7	[41]	20	40857	2616.7	24.07	24.07	0					
	30A	29A	[66A]	66A				30	QPSK	10	27710	2310	1	25	30	10	9820	2355	29	10	9715	722.5	[66]	20	67036	2170	66	20	66536	2120					23.01	22.91	-0.1					
29A-30A-[66A]-66A	[66A]	29A	66A	30A				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	29	10	9715	722.5	66	20	66536	2120	30	10	9820	2355					24.02	23.94	-0.08					
	66A	29A	30A	[66A]				66	QPSK	20	132572	1770	1	0	66	20	67036	2170	29	10	9715	722.5	30	10	9820	2355	[66A]	20	66536	2120					24.02	23.87	-0.15					
29A-30A-[66A]-[66A]	30A	29A	[66A]	[66A]				30	QPSK	10	27710	2310	1	25	30	10	9820	2355	29	10	9715	722.5	[66A]	20	67036	2170	66	20	66536	2120					23.01	22.89	-0.12					
	[66A]	[66A]	29A	30A				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	[66A]	20	66536	2120	29	10	9715	722.5	30	10	9820	2355					24.02	24	-0.02					
29A-[30A]-66A-66A	[30A]	29A	66A	66A				[30A]	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	29	10	9715	722.5	66	20	67036	2170	66	20	66536	2120					23.01	22.95	-0.06					
	66A	66A	29A	[30A]				66	QPSK	20	132572	1770	1	0	66	20	67036	2170	66	20	66536	2120	29	10	9715	722.5	30	10	9820	2355					24.02	24.02	0					
29A-[30A]-[66A]-66A	[30A]	29A	[66A]	66A				[30A]	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	29	10	9715	722.5	[66A]	20	67036	2170	66	20	66536	2120					23.01	22.91	-0.1					
	[66A]	29A	66A	[30A]				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	29	10	9715	722.5	66	20	66536	2120	[30]	10	9820	2355					24.02	23.94	-0.08					
29A-[30A]-[66A]-[66A]	[30A]	29A	[66A]	[66A]				[30A]	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	29	10	9715	722.5	[66A]	20	67036	2170	66	20	66536	2120					24.02	23.93	-0.09					
	[66A]	[66A]	29A	[30A]				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	[66A]	20	66536	2120	29	10	9715	722.5	[30]	10	9820	2355					24.02	23.92	-0.1					
48A-48A-[66A]-66A	[66A]	48A	48A	66A				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	48	20	55640	3690	48	20	55773	3603.3	66	20	66536	2120					24.02	23.97	-0.05					
	66A	48A	48A	[66A]				66	QPSK	20	132572	1770	1	0	66	20	67036	2170	48	20	55773	3603.3	[66A]	20	66536	2120									24.02	23.92	-0.1					
48A-48A-[66A]-[66A]	[66A]	[66A]	48A	48A				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	[66A]	20	66536	2120	48	20	55773	3603.3	66	20	66536	2120					24.02	23.96	-0.06					
	66A	48A	48A	[66A]				66	QPSK	20	132572	1770	1	0	66	20	67036	2170	48	20	55773	3603.3	[66A]	20	66536	2120									24.02	23.99	-0.03					
48A-48A-66A-66A	[66A]	[66A]	48A	48A				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	[48A]	20	55640	3690	48	20	55773	3603.3	66	20	66536	2120					24.02	23.98	-0.04					
	66A	66A	[48A]	48A				66	QPSK	20	132572	1770	1	0	66	20	67036	2170	66	20	55640	3690	48	20	55773	3603.3	48	20	55773	3603.3	66	20	66536	2120			24.02	23.99	-0.11			
48A-[48A]-66A-66A	[66A]	[66A]	48A	48A				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	[48A]	20	55640	3690	48	20	55773	3603.3	66	20	66536	2120					24.02	23.95	-0.07					
	66A	66A	[48A]	48A				66	QPSK	20	132572	1770	1	0	66	20	67036	2170	48	20	55640	3690	48	20	55773	3603.3	66	20	66536	2120					24.02	23.95	-0.07					
48A-[48A]-[66A]-66A	[66A]	[66A]	48A	48A				[66A]	QPSK	20	132572	1770	1	0	[66A]	20	67036	2170	[48A]	20	55640	3690	48	20	55773	3603.3	66	20	66536	2120					24.02	23.93	-0.09					
	66A	66A	[48A]	48A				66	QPSK	20	132572	1770	1	0	66	20	67036	2170	48	20	55640	3690	48	20	55773	3603.3	66	20	66536	2120					24.02	23.93	-0.09					
48A-[48A]-[66A]-[66A]	[66A]	[66A]	48A	48A				[66A]	QPSK	20																																

DL CA with 4x4 MIMO output power results (Continued)

E-UTRA CA configuration (BCS)	Bands							UL							DL							SCC5				SCC6				LTE Rel 8 Tx Power [dBm]	LTE Rel 10 Tx Power [dBm]	Delta									
	SCC1	SCC2	SCC3	SCC4	SCC5	SCC6	Band	Mode	BW [MHz]	Channel	Freq. [MHz]	RB Allocation	RB offset	Band	BW [MHz]	Channel	Freq. [MHz]	Band	BW [MHz]	Channel	Freq. [MHz]	Band	BW [MHz]	Channel	Freq. [MHz]	Band	BW [MHz]	Channel	Freq. [MHz]												
[2A]-2A-5A-30A-66A	[2A]	2A	5A	30A	66A			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	66	20	67036	2170	2412	2403	-0.09				
	2A	5A	30A	66A	[2A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	66	20	67036	2170	[2]	20	1100	1980	2412	2402	-0.1				
	5A	30A	66A	[2A]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	30	10	9820	2355	66	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	2412	2402	-0.14				
	30A	66A	[2A]	2A	5A			30	QPSK	10	27710	2310	1	25	30	10	9820	2355	66	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	2301	2293	-0.08				
	66A	[2A]	2A	5A	30A			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	5	10	9820	2355	66	20	67036	2170	2402	24	-0.02				
	[2A]	2A	5A	30A	[66A]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	[66]	20	67036	2170	2412	23.97	-0.15				
	2A	5A	30A	[66A]	[2A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	[66]	20	67036	2170	[2]	20	1100	1980	2412	2407	-0.05				
	5A	30A	[66A]	[2A]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	30	10	9820	2355	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	2412	24.5	-0.06				
	30A	[66A]	[2A]	2A	5A			30	QPSK	10	27710	2310	1	25	30	10	9820	2355	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	2301	22.87	-0.14				
	[66A]	[2A]	2A	5A	30A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	2402	23.88	-0.14				
[2A]-2A-5A-[30A]-66A	[2A]	2A	5A	[30A]	66A			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	66	20	67036	2170	2412	24.05	-0.07				
	2A	5A	[30A]	66A	[2A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	66	20	67036	2170	[2]	20	1100	1980	2412	24.05	0				
	5A	[30A]	66A	[2A]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[30]	10	9820	2355	66	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	2412	24.56	-0.06				
	[30A]	66A	[2A]	2A	5A			[30]	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	66	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	2301	22.9	-0.11				
	66A	[2A]	2A	5A	[30A]			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	2402	23.89	-0.13				
	[2A]	2A	5A	[30A]	[66A]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	67036	2170	2412	24.02	-0.09				
	2A	5A	[30A]	[66A]	[2A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	67036	2170	[2]	20	1100	1980	2412	24.08	-0.04				
	5A	[30A]	[66A]	[2A]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	2412	24.56	-0.05				
	[30A]	[66A]	[2A]	2A	5A			[30]	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	2301	22.97	-0.14				
	[66A]	[2A]	2A	5A	30A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	2402	23.96	-0.14				
[2A]-[2A]-5A-30A-66A	5A	30A	66A	[2A]	[2A]			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	30	10	9820	2355	66	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	2412	24.09	-0.03				
	30A	66A	[2A]	[2A]	5A			30	QPSK	10	27710	2310	1	25	30	10	9820	2355	66	20	67036	2170	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	2301	22.97	-0.14				
	66A	[2A]	[2A]	5A	30A			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	2402	23.96	-0.14				
	5A	30A	[66A]	[2A]	[2A]			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	30	10	9820	2355	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	2412	24.56	-0.06				
	[30A]	[66A]	[2A]	[2A]	5A			[30]	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	[66]	20	67036	2170	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	2301	22.92	-0.09				
	[66A]	[2A]	[2A]	5A	[30A]			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	2402	24.02	-0.1				
	2A	2A	5A	[66B]	[66B]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	[66]	5	66968	2172.5	[66]	5	66968	2163.2	2412	24	-0.12				
	5A	[66B]	[66B]	2A	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[66]	5	67061	2172.5	[66]	5	66968	2163.2	2	20	700	1940	2	20	1100	1980	2412	24.46	-0.1				
	[66B]	[66B]	2A	2A	5A			[66]	QPSK	15	132597	1772.5	1	0	[66]	15	67061	2172.5	[66]	5	66968	2163.2	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	2402	23.9	-0.12				
	[2A]	2A	5A	66B	66B			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	66	15	67061	2172.5	66	5	66968	2163.2	2412	24.12	0				
[2A]-2A-5A-66B	2A	5A	66B	66B	[2A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	66	15	67061	2172.5	66	5	66968	2163.2	[2]	20	700	1940	2	20	1100	1980	2412	24.08	-0.04
	5A	66B	66B	[2A]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	66	15	67061	2172.5	66	5	66968	2163.2	[2]	20	700	1940	2	20	1100	1980	2412	24.5	-0.06				
	66B	66B	[2A]	2A	5A			66	QPSK	15	132597	1772.5	1	0	66	15	67061	2172.5	66	5	66968	2163.2	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	2402	23.94	-0.08				
	[2A]	2A	5A	[66B]	[66B]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	[66]	5	67061	2172.5	[66]	5	66968	2163.2	2412	24.06	-0.02				
	2A	5A	[66B]	[66B]	[2A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	[66]	5	66968	2163.2	[66]	5	66968	2163.2	[2]	20	1100	1980	2412	24.08	0.04				
	5A	[66B]	[66B]	[2A]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[66]	5	67061	2172.5	[66]	5	66968	2163.2	[66]	5	66968	2163.2	[2]	20	700	1940	2	20	1100	1980	2412	24.46	-0.1
	[66B]	[66B]	[2A]	2A	5A			[66]	QPSK	15	132597	1772.5	1	0	[66]	15	67061	2172.5	[66]	5	66968	2163.2	[2]	20	700	1940	2	20													

[illegible]

Note:

1. Per KDB 941225 D05A LTE Rel. 10 KDB Inquiry Sheet: SAR is excluded for Carrier Aggregation when measured power does not exceed LTE Release 8 by more than a 1/4 dB.
2. When the same frequency band is used for both contiguous and non-contiguous in DL CA Intra band, power was measured using the configuration with the largest aggregated bandwidth and maximum output power among the contiguous and non-contiguous in DL CA Intra band configurations.

EUTRA CA configuration (BCS)	Bands							UL							DL												SCCS				SC06				LTE Ref 8 Tx Power (dBm)	LTE Ref 10 Tx Power (dBm)	Delta						
	PCC		SC01		SC02		SC03		SC04		SC05		SC08		Band	Mode	BW (MHz)	Channel	Freq. (MHz)	RB Allocation	RB offset	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)						
	2nd	2nd	3rd	4th	5th	6th	7th																																				
2A-2A-14A-[30A]-66A	2A	2A	14A	[30A]	66A			2	QPSK	20	18700	1860	1	49	2	20	700	1940	2	10	1180	1980	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170			2412	24.07	-0.05				
	14A	[30A]	66A	2A	2A			14	QPSK	10	23330	793	1	0	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170	2	20	700	1940	2	20	1100	1980			2474	24.74	0				
	[30A]	66A	2A	2A	14A			[30]	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	66	20	67036	2170	2	20	700	1940	2	20	1100	1980	14	10	5330	763			2301	22.96	-0.05				
	66A	2A	2A	14A	[30A]			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	2	20	700	1940	2	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170			2402	23.99	-0.02
2A-2A-14A-[30A]-[66A]	2A	2A	14A	[30A]	[66A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	2	10	1180	1980	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170			2412	24.11	0.02				
	14A	[30A]	[66A]	2A	2A			14	QPSK	10	23330	793	1	0	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170	[2]	20	700	1940	2	20	1100	1980			2474	24.6	-0.14				
	[66A]	2A	2A	14A	[30A]			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170			2301	22.87	-0.05
	[66A]	2A	2A	14A	[30A]			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[2]	20	700	1940	2	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170			2402	23.99	-0.08
[2A]-2A-14A-30A-66A	[2A]	2A	14A	[30A]	66A			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	2	10	1180																						

2. When the same frequency band is used for both contiguous and non-contiguous in DL CA Intra band, power was measured using the configuration with the largest aggregated bandwidth and maximum output power among the contiguous and non-contiguous in DL CA Intra band configurations.

DL CA with 4x4 MIMO output power results (Continued)

E-UTRA CA configuration (BCS)	Bands							UL							DL												SCC5				SCC6				LTE Rel 8 Tx Power (dBm)	LTE Rel 10 Tx Power (dBm)	Delta
	PCC							PCC							PCC				SCC1				SCC2				SCC3				SCC4						
	1st	2nd	3rd	4th	5th	6th	7th	Band	Mode	BW (MHz)	Channel	Freq. (MHz)	RB Allocation	RB offset	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)			
[2A]-[2A]-[14A]-[66A]-[66A]	[2A]	[2A]	[14A]	[66A]	[66A]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	[2]	20	1100	1980	14	10	5330	763	[66]	20	67036	2170	[66]	20	66536	2120	2412	2402	-0.1
	[14A]	[66A]	[66A]	[2A]	[2A]			14	QPSK	10	23330	793	1	0	14	10	5330	763	[66]	20	67036	2170	[66]	20	66536	2120	[2]	20	700	1940	[2]	20	1100	1980	2474	2471	-0.03
	[66A]	[66A]	[2A]	[2A]	[14A]			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[66]	20	66536	2120	[2]	20	700	1940	[2]	20	1100	1980	14	10	5330	763	2402	2387	-0.15
	2A	5A	48A	[66A]	66A			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	48	20	56640	3690	[66]	20	67036	2170	66	20	66536	2120	2412	2411	-0.01
2A-5A-48A-[66A]-66A	5A	48A	[66A]	66A	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	48	20	56640	3690	[66]	20	67036	2170	66	20	66536	2120	2	20	700	1940	2456	2452	-0.04
	[66A]	48A	66A	2A	5A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	48	20	56640	3690	66	20	66536	2120	2	20	700	1940	5	10	2525	881.5	2402	2392	-0.1
	66A	48A	2A	5A	[66A]			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	48	20	56640	3690	2	20	700	1940	5	10	2525	881.5	[66]	20	66536	2120	2402	2391	-0.11
	2A	5A	48A	[66A]	[66A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	48	20	56640	3690	[66]	20	67036	2170	[66]	20	66536	2120	2412	24	-0.12
2A-5A-48A-[66A]-[66A]	5A	48A	[66A]	[66A]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	48	20	56640	3690	[66]	20	67036	2170	[66]	20	66536	2120	2	20	700	1940	2456	2445	-0.11
	[66A]	[66A]	48A	2A	5A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[66]	20	66536	2120	48	20	56640	3690	2	20	700	1940	5	10	2525	881.5	2402	2396	-0.06
	2A	5A	[48A]	66A	66A			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	[48]	20	56640	3690	66	20	67036	2170	66	20	66536	2120	2412	241	-0.02
	5A	[48A]	66A	66A	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[48]	20	56640	3690	66	20	67036	2170	66	20	66536	2120	2	20	700	1940	2456	2451	-0.05
2A-5A-[48A]-66A-66A	66A	66A	[48A]	2A	5A			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	66	20	66536	2120	[48]	20	56640	3690	2	20	700	1940	5	10	2525	881.5	2402	2397	-0.05
	2A	5A	[48A]	[66A]	66A			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	[48]	20	56640	3690	[66]	20	67036	2170	66	20	66536	2120	2412	2405	-0.07
	5A	[48A]	[66A]	66A	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[48]	20	56640	3690	[66]	20	67036	2170	66	20	66536	2120	2	20	700	1940	2456	2447	-0.09
	[66A]	[48A]	66A	2A	5A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[48]	20	56640	3690	66	20	66536	2120	2	20	700	1940	5	10	2525	881.5	2402	2399	-0.03
2A-5A-[48A]-[66A]-66A	66A	[48A]	2A	5A	[66A]			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	[48]	20	56640	3690	2	20	700	1940	5	10	2525	881.5	[66]	20	66536	2120	2402	2401	-0.01
	2A	5A	[48A]	[66A]	[66A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	[48]	20	56640	3690	[66]	20	67036	2170	[66]	20	66536	2120	2412	2403	-0.09
	5A	[48A]	66A	[66A]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[48]	20	56640	3690	[66]	20	67036	2170	[66]	20	66536	2120	2	20	700	1940	2456	2441	-0.15
	[66A]	[66A]	[48A]	2A	5A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[66]	20	66536	2120	[48]	20	56640	3690	66	20	67036	2170	[66]	20	66536	2120	2402	2389	-0.13
[2A]-5A-48A-66A-66A	[2A]	5A	48A	66A	66A			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	5	10	2525	881.5	48	20	56640	3690	66	20	67036	2170	66	20	66536	2120	2412	2398	-0.14
	5A	48A	66A	[66A]	[2A]			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	48	20	56640	3690	66	20	67036	2170	66	20	66536	2120	[2]	20	700	1940	2456	2453	-0.03
	66A	66A	[48A]	2A	5A			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	66	20	66536	2120	[48]	20	56640	3690	66	20	67036	2170	66	20	66536	2120	2402	2402	0
	[2A]	5A	[48A]	[66A]	66A			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	5	10	2525	881.5	48	20	56640	3690	[66]	20	67036	2170	66	20	66536	2120	2412	2402	-0.1
[2A]-5A-[48A]-[66A]-66A	5A	[48A]	[66A]	66A	[2A]			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[48]	20	56640	3690	[66]	20	67036	2170	66	20	66536	2120	[2]	20	700	1940	2456	2451	-0.05
	[66A]	[48A]	66A	[2A]	5A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[48]	20	56640	3690	66	20	66536	2120	[2]	20	700	1940	5	10	2525	881.5	2402	24	-0.02
	66A	48A	[2A]	5A	[66A]			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	[48]	20	56640	3690	[2]	20	700	1940	5	10	2525	881.5	[66]	20	66536	2120	2402	2389	-0.13
	[2A]	5A	[48A]	[66A]	[66A]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	5	10	2525	881.5	[48]	20	56640	3690	[66]	20	67036	2170	[66]	20	66536	2120	2412	2406	-0.06
[2A]-5A-[48A]-[66A]-[66A]	5A	[48A]	[66A]	[66A]	[2A]			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[48]	20	56640	3690	[66]	20	67036	2170	[66]	20	66536	2120	[2]	20	700	1940	2456	2445	-0.11
	[66A]	[66A]	[48A]	[2A]	5A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[66]	20	66536	2120	[48]	20	56640	3690	[2]	20	700	1940	5	10	2525	881.5	2402	2387	-0.15
	2A	5A	[48D]	[48D]	[48D]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	5	10	2525	881.5	[48]	20	56640	3690	[48]	20	56442	3670.2	[48]	20	56244	3650.4	2412	24	-0.12
	[48A]	[48D]	[48D]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[48]	20	56640	3690	[48]	20	56442	3670.2	[48]	20	56442	3670.2	[48]	20	56244	3650.4	2456	2453	-0.03	
[2A]-5A-48D	2A	5A	48D	48D	48D			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	5	10	2525	881.5	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	2412	2402	-0.1
	5A	48D	48D	48D	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	48	20	56640	3690	48	20	56442	3670.2	48	20	56442	3670.2	48	20	56244	3650.4	2456	2442	-0.14
	[2A]	5A	[48D]	[48D]	[48D]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	5	10	2525	881.5	[48]	20	56640	3690	[48]	20	56442	3670.2	[48]	20	56244	3650.4	2412	2397	-0.15
	5A	[48D]	[48D]	[48D]	2A			5	QPSK	10	20525	836.5	1	25	5	10	2525	881.5	[48]	20	56640	3690	[48]	20													

DL CA with 4x4 MIMO output power results (Continued)

E-UTRA CA configuration (BCS)	Bands							UL							DL														SCS5				SCS6				LTE Rel 8 Tx Power [dBm]	LTE Rel 10 Tx Power [dBm]	Delta						
	PCC		SCC1		SCC2		SCC3		SCC4		SCC5		SCC6		PCC				SCC1				SCC2				SCC3				SCC4				SCC5					SCC6					
	1st	2nd	3rd	4th	5th	6th	7th	Band	Mode	BW (MHz)	Channel	Freq. (MHz)	RB Allocation	RB offset	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)				Channel	Freq. (MHz)				
2A-13A-48C-[66A]	2A	13A	48C	[48C]	[66A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	13	10	5230	751	48	20	56640	3690	48	20	56442	3670.2	[66]	20	67036	2170			2412	2412	0						
	13A	48C	48C	[66A]	2A			13	QPSK	10	23230	782	1	25	13	10	5230	751	48	20	56640	3690	48	20	56442	3670.2	[66]	20	67036	2170	2	20	700	1940			2487	24.84	-0.03						
	[66A]	48C	48C	2A	13A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	48	20	56640	3690	48	20	56442	3670.2	2	20	700	1940	13	10	5230	751			2402	2402	0						
	2A	13A	[48C]	[48C]	[66A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	66	20	67036	2170			2412	24.01	-0.11						
2A-13A-[48C]-66A	13A	[48C]	[48C]	66A	2A			13	QPSK	10	23230	782	1	25	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	66	20	67036	2170	2	20	700	1940			2487	24.87	0						
	66A	[48C]	[48C]	2A	13A			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	[48]	20	56640	3690	[48]	20	56442	3670.2	2	20	700	1940	13	10	5230	751			2402	23.97	-0.05						
	2A	13A	[48C]	[48C]	[66A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	[66]	20	67036	2170			2412	24.05	-0.07						
	13A	[48C]	[48C]	[66A]	2A			13	QPSK	10	23230	782	1	25	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	[66]	20	67036	2170	2	20	700	1940			2487	24.86	-0.01						
[2A]-13A-48C-66A	[66A]	[48C]	[48C]	2A	13A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[48]	20	56640	3690	[48]	20	56442	3670.2	2	20	700	1940	13	10	5230	751			2402	24.01	-0.01						
	[2A]	13A	48C	48C	66A			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	13	10	5230	751	48	20	56640	3690	48	20	56442	3670.2	66	20	67036	2170			2412	24.05	-0.07						
	13A	48C	48C	66A	[2A]			13	QPSK	10	23230	782	1	25	13	10	5230	751	48	20	56640	3690	48	20	56442	3670.2	66	20	67036	2170	[2]	20	700	1940			2487	24.85	-0.02						
	66A	48C	48C	[2A]	13A			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	48	20	56640	3690	48	20	56442	3670.2	[2]	20	700	1940	13	10	5230	751			2402	23.9	-0.12						
[2A]-13A-48C-[66A]	[2A]	13A	48C	48C	[66A]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	13	10	5230	751	48	20	56640	3690	48	20	56442	3670.2	[66]	20	67036	2170			2412	24.07	-0.05						
	13A	48C	48C	[66A]	[2A]			13	QPSK	10	23230	782	1	25	13	10	5230	751	48	20	56640	3690	48	20	56442	3670.2	[66]	20	67036	2170	[2]	20	700	1940			2487	24.73	-0.13						
	[66A]	48C	48C	[2A]	13A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	48	20	56640	3690	48	20	56442	3670.2	[2]	20	700	1940	13	10	5230	751			2402	24	-0.02						
	[2A]	13A	[48C]	[48C]	66A			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	66	20	67036	2170			2412	24.03	-0.09						
[2A]-13A-[48C]-66A	13A	[48C]	[48C]	66A	[2A]			13	QPSK	10	23230	782	1	25	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	66	20	67036	2170	[2]	20	700	1940			2487	24.76	-0.11						
	66A	[48C]	[48C]	[2A]	13A			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	[48]	20	56640	3690	[48]	20	56442	3670.2	[2]	20	700	1940	13	10	5230	751			2402	23.94	-0.08						
	[2A]	13A	[48C]	[48C]	[66A]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	[66]	20	67036	2170			2412	24.12	0						
	13A	[48C]	[48C]	[66A]	[2A]			13	QPSK	10	23230	782	1	25	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	[66]	20	67036	2170	[2]	20	700	1940			2487	24.86	-0.01						
2A-13A-[48D]	[66A]	[48C]	[48C]	[2A]	13A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	[48]	20	56640	3690	[48]	20	56442	3670.2	[2]	20	700	1940	13	10	5230	751			2402	23.97	-0.05						
	2A	13A	[48D]	[48D]	[48D]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	[48]	20	56444	3650.4			2412	24.11	-0.01						
	13A	[48D]	[48D]	[48D]	2A			13	QPSK	10	23230	782	1	25	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	[48]	20	56244	3650.4	2	20	700	1940			2487	24.77	-0.11						
	[2A]	13A	48D	48D	48D	[2A]		[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	13	10	5230	751	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4			2412	24.08	-0.04						
[2A]-13A-[48D]	13A	48D	48D	48D	[2A]			13	QPSK	10	23230	782	1	25	13	10	5230	751	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	[2]	20	700	1940			2487	24.73	-0.14						
	[2A]	13A	[48D]	[48D]	[48D]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	[48]	20	56244	3650.4			2412	24.12	0						
	13A	[48D]	[48D]	[48D]	[2A]			13	QPSK	10	23230	782	1	25	13	10	5230	751	[48]	20	56640	3690	[48]	20	56442	3670.2	[48]	20	56244	3650.4	[2]	20	700	1940			2487	24.74	-0.13						
	[30A]	66A	66A	2A	14A			[30]	QPSK	20	18700	1860	1	49	2	20	700	1940	14	10	5330	763	30	10	9820	2355	[66]	20	67036	2170	66	20	66536	2120			2412	24	-0.12						
2A-14A-30A-[66A]-66A	14A	30A	[66A]	66A	2A			14	QPSK	10	23330	793	1	0	14	10	5330	763	30	10	9820	2355	[66]	20	67036	2170	66	20	66536	2120	2	20	700	1940			2474	24.64	-0.1						
	30A	[66A]	66A	2A	14A			30	QPSK	10	27710	2310	1	25	30	10	9820	2355	[66]	20	67036	2170	66	20	66536	2120	2	20	700	1940	14	10	5330	763			2301	22.99	-0.02						
	[66A]	66A	2A	14A	30A			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	66	20	66536	2120	2	20	700	1940	14	10	5330	763	30	10	9820	2355			2402	23.93	-0.09						
	66A	2A	14A	30A	[66A]			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	2	20	700	1940	14	10	5330	763	30	10	9820	2355	[66]	20	66536	2120			2402	23.94	-0.08						
2A-14A-30A-[66A]-66A	2A	14A	30A	[66A]	[66A]			2	QPSK	20	18700	1860	1	49	2	20	700	1940	14	10	5330	763	30	10	9820	2355	[66]	20	67036	2170	[66]	20	66536	2120			2412	24.01	-0.11						
	14A	30A	[66A]	66A	2A			14	QPSK	10	23330	793	1	0	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170	66	20	66536	2120	2	20	700	1940			2474	24.72	-0.02						
	[30A]	66A	66A	2A	14A			[30]																																					

EUTRA CA configuration (B3S)	Bands							UL				PCC				DL				SCS4				SCS5				SCS6				LTE Ref 10 Tx Power (dBm)	LTE Ref 19 Tx Power (dBm)	Delta				
	PCC	SCC1	SCC2	SCC3	SCC4	SCC5	SCC6	Band	Mode	BW (MHz)	Channel	Freq. (MHz)	RB Allocation	RB offset	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)	Band	BW (MHz)	Channel	Freq. (MHz)								
	1st	2nd	3rd	4th	5th	6th	7th																															
[2A]-14A-[30A]-66A-66A	[2A]	14A	[2A]	66A	66A			[2]	QPSK	20	18700	1860	1	0	49	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170	66	20	66536	2120	24.12	24.08	-0.04
	[14A]	30A	66A	66A	[2A]			14	QPSK	10	23330	793	1	0		14	10	5330	763	[30]	10	9820	2355	66	20	67036	2170	66	20	66536	2120	[2]	20	700	1940	24.74	24.63	-0.11
	[30A]	66A	[2A]	14A				30	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	66	20	67036	2170	66	20	66536	2120	[2]	20	700	1940	14	10	5330	763	23.01	22.92	-0.09	
	66A	66A	[2A]	14A	[30A]			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	66	20	66536	2120	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	24.02	24.02	0	
	[2A]	14A	[30A]	[66A]	66A			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	[66]	20	67036	2170	66	20	66536	2120	24.12	24.02	-0.1	
[2A]-14A-[30A]-[66A]-66A	14A	[30A]	66A	66A	[2A]			14	QPSK	10	23330	793	1	0		14	10	5330	763	[30]	10	9820	2355	[66]	20	67036	2170	66	20	66536	2120	[2]	20	700	1940	24.74	24.63	-0.11
	[30A]	[66A]	66A	[2A]	14A			30	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	[66]	20	67036	2170	66	20	66536	2120	[2]	20	700	1940	14	10	5330	763	23.01	22.97	-0.04	
	[66A]	66A	[2A]	14A	[30A]			[66]	QPSK	20	132572	1770	1	0	[66]	20	67036	2170	66	20	66536	2120	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	24.02	23.98	-0.14	
	66A	[2A]	14A	[30A]	[66A]			66	QPSK	20	132572	1770	1	0	66	20	67036	2170	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	[66]	20	66536	2120	24.02	23.96	-0.06	
	[2A]	14A	[30A]	[66A]	[66A]			[2]	QPSK	20	18700	1860	1	49	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	[66]	20	67036	2170	[66]	20	66536	2120	24.12	24	-0.12	
[2A]-14A-[30A]-[66A]-[66A]	14A	[30A]	66A	66A	[2A]			14	QPSK	10	23330	793	1	0		14	10	5330	763	[30]	10	9820	2355	[66]	20	67036	2170	[66]	20	66536	2120	[2]	20	700	1940	24.74	24.71	-0.03
	[30A]	[66A]	66A	[2A]	14A			30	QPSK	10	27710	2310	1	25	[30]	10	9820	2355	[66]	20	67036	2170	[66]	20	66536	2120	[2]	20	700	1940	14	10	5330	763	23.01	22.91	-0.1	
	[66A]	66A</																																				

Note:

1. Per KDB 941225 D05A LTE Rel. 10 KDB Inquiry Sheet: SAR is excluded for Carrier Aggregation when measured power does not exceed LTE Release 8 by more than a 1/4 dB.
2. When the same frequency band is used for both contiguous and non-contiguous in DL CA Intra band, power was measured using the configuration with the largest aggregated bandwidth and maximum output power among the contiguous and non-contiguous in DL CA Intra band configurations.

[illegible]

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