LTE Downlink Carrier Aggregation configuration

1. DL Inter Band(2CC)

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-4A	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	Yes	40
		Band 4			Yes	Yes	Yes	Yes	
	(1)	Band 2			Yes	Yes			20
		Band 4			Yes	Yes			
	(2)	Band 2			Yes	Yes	Yes	Yes	40
		Band 4			Yes	Yes	Yes	Yes	
2A-5A	(0)	Band 2			Yes	Yes	Yes	Yes	30
		Band 5			Yes	Yes			
	(1)	Band 2			Yes	Yes			20
		Band 5			Yes	Yes			
2A-7A	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 7			Yes	Yes	Yes	Yes	
2A-12A	(0)	Band 2			Yes	Yes	Yes	Yes	30
		Band 12			Yes	Yes			
	(1)	Band 2			Yes	Yes	Yes	Yes	30
		Band 12		Yes	Yes	Yes			
	(2)	Band 2			Yes	Yes			20
		Band 12			Yes	Yes			
2A-13A	(0)	Band 2			Yes	Yes	Yes	Yes	30
		Band 13				Yes			
	(1)	Band 2			Yes	Yes			20
		Band 13				Yes			
	(2)	Band 2			Yes	Yes	Yes	Yes	30
		Band 13			Yes	Yes			
2A-14A	(0)	Band 2			Yes	Yes	Yes	Yes	30
		Band 14			Yes	Yes			
2A-29A	(0)	Band 2			Yes	Yes			20
		Band 29		Yes	Yes	Yes			
	(1)	Band 2			Yes	Yes			20
		Band 29			Yes	Yes			
	(2)	Band 2			Yes	Yes	Yes	Yes	30
		Band 29			Yes	Yes			
2A-48A	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 48			Yes	Yes	Yes	Yes	
2A-66A	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	Yes	40
		Band 66			Yes	Yes	Yes	Yes	
	(1)	Band 2			Yes	Yes			20
		Band 66			Yes	Yes			
	(2)	Band 2			Yes	Yes	Yes	Yes	40
		Band 66			Yes	Yes	Yes	Yes	
2A-71A	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 71			Yes	Yes	Yes	Yes	
	(1)	Band 2			Yes	Yes			20
		Band 71			Yes	Yes			
4A-5A	(0)	Band 4			Yes	Yes			20
		Band 5			Yes	Yes			
	(1)	Band 4			Yes	Yes	Yes	Yes	30
		Band 5			Yes	Yes			
4A-7A	(0)	Band 4			Yes	Yes			30
		Band 7			Yes	Yes	Yes	Yes	
	(1)	Band 4			Yes	Yes	Yes	Yes	40
		Band 7			Yes	Yes	Yes	Yes	
4A-12A	(0)	Band 4	Yes	Yes	Yes	Yes			20
		Band 12			Yes	Yes			
	(1)	Band 4	Yes	Yes	Yes	Yes	Yes	Yes	30
		Band 12			Yes	Yes			
	(2)	Band 4			Yes	Yes	Yes	Yes	30
		Band 12		Yes	Yes	Yes			
	(3)	Band 4			Yes	Yes			20
		Band 12			Yes	Yes			
	(4)	Band 4			Yes	Yes	Yes	Yes	30
		Band 12			Yes	Yes			
	(5)	Band 4			Yes	Yes	Yes		20
		Band 12			Yes				

2. DL Inter Band(3CC)

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-2A-4A	(0)	Band 2	2A-2A BCS 0						60
		Band 4			Yes	Yes	Yes	Yes	
2A-2A-5A	(0)	Band 2	2A-2A BCS 0						50
		Band 5			Yes	Yes			
2A-2A-7A	(0)	Band 2	2A-2A BCS 0						60
		Band 7			Yes	Yes	Yes	Yes	
2A-2A-12A	(0)	Band 2	2A-2A BCS 0						50
		Band 12			Yes	Yes			
2A-2A-13A	(0)	Band 2	2A-2A BCS 0						50
		Band 13				Yes			
2A-2A-14A	(0)	Band 2	2A-2A BCS 0						50
		Band 14			Yes	Yes			
2A-2A-29A	(0)	Band 2	2A-2A BCS 0						50
		Band 29			Yes	Yes			
2A-2A-66A	(0)	Band 2	2A-2A BCS 0						60
		Band 66			Yes	Yes	Yes	Yes	
2C-66A	(0)	Band 2	2C BCS 0						60
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-71A	(0)	Band 2	2A-2A BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
2A-4A-4A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 4	4A-4A BCS 0						
2A-4A-5A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 4			Yes	Yes	Yes	Yes	
		Band 5			Yes	Yes			
2A-4A-7A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 4			Yes	Yes	Yes	Yes	
		Band 5			Yes	Yes	Yes	Yes	
2A-4A-12A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 4			Yes	Yes	Yes	Yes	
		Band 12			Yes	Yes			
2A-4A-13A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 4			Yes	Yes	Yes	Yes	
		Band 13				Yes			
2A-4A-29A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 4			Yes	Yes	Yes	Yes	
		Band 29			Yes	Yes			
2A-4A-71A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 4			Yes	Yes	Yes	Yes	
		Band 71			Yes	Yes	Yes	Yes	
2A-5B	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 5	5B BCS 0						
2A-5A-7A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 5			Yes	Yes			
		Band 7				Yes	Yes	Yes	
2A-5A-48A	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	Yes	50
		Band 5			Yes	Yes			
		Band 48			Yes	Yes	Yes	Yes	
2A-5A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 5			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-7A-7A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 7	7A-7A BCS 1						
2A-7C	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 7	7C BCS 1						
2A-7A-12A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 7			Yes	Yes	Yes	Yes	
		Band 12			Yes	Yes			
2A-7A-13A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 7			Yes	Yes	Yes	Yes	
		Band 13			Yes	Yes			
2A-7A-29A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 7				Yes	Yes	Yes	
		Band 29			Yes	Yes			

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	
2A-2A-4A-4A	(0)	Band 2	2A-2A BCS 0						80
		Band 4	4A-4A BCS 0						
2A-2A-4A-5A	(0)	Band 2	2A-2A BCS 0						70
		Band 4			Yes	Yes	Yes	Yes	
		Band 5			Yes	Yes			
2A-2A-4A-12A	(0)	Band 2	2A-2A BCS 0						70
		Band 4			Yes	Yes	Yes	Yes	
		Band 12			Yes	Yes			
2A-2A-4A-71A	(0)	Band 2	2A-2A BCS 0						80
		Band 4			Yes	Yes	Yes	Yes	
		Band 71			Yes	Yes	Yes	Yes	
2A-2A-5B	(0)	Band 2	2A-2A BCS 0						60
		Band 5	5B BCS 0						
2A-2A-5A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 5			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-7C	(0)	Band 2	2A-2A BCS 0						80
		Band 7	7C BCS 1						
2A-2A-7A-12A	(0)	Band 2	2A-2A BCS 0						70
		Band 7			Yes	Yes	Yes	Yes	
		Band 12			Yes	Yes			
2A-2A-7A-66A	(0)	Band 2	2A-2A BCS 0						80
		Band 7			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-12B	(0)	Band 2	2A-2A BCS 0						55
		Band 5	12B BCS 0						
2A-2A-12A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 12			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-13A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 13			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-14A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 14			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-66A-66A	(0)	Band 2	2A-2A BCS 0						80
		Band 66	66A-66A BCS 0						
2A-2A-66B	(0)	Band 2	2A-2A BCS 0						60
		Band 66	66B BCS 0						
2A-2A-66C	(0)	Band 2	2A-2A BCS 0						80
		Band 66	66C BCS 0						
2C-66A-66A	(0)	Band 2	2C BCS 0						80
		Band 66	66A-66A BCS 0						
2A-2A-66A-71A	(0)	Band 2	2A-2A BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
		Band 71			Yes	Yes	Yes	Yes	
2A-4A-4A-5A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 4	4A-4A BCS 0						
		Band 5			Yes	Yes	Yes	Yes	
2A-4A-4A-12A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 4	4A-4A BCS 0						
		Band 12			Yes	Yes			
2A-4A-5B	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 4			Yes	Yes	Yes	Yes	
		Band 5	5B BCS 0						
2A-4A-7A-7A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 4			Yes	Yes	Yes	Yes	
		Band 7	7A-7A BCS 0						
2A-4A-7C	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 4			Yes	Yes	Yes	Yes	
		Band 7	7C BCS 1						
2A-4A-12B	(0)	Band 2			Yes	Yes	Yes	Yes	55
		Band 4			Yes	Yes	Yes	Yes	
		Band 12	12B BCS 0						

LTE Downlink Carrier Aggregation configurations (Continued)

1. DL Inter Band(2CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth 1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Max Aggregated
4A-13A	(0)	Band 4			Yes	Yes	Yes	Yes	30
		Band 13				Yes			
	(1)	Band 4			Yes	Yes			20
		Band 13				Yes			
4A-29A	(0)	Band 4			Yes	Yes			20
		Band 29		Yes	Yes	Yes			
	(1)	Band 4			Yes	Yes			20
		Band 29			Yes	Yes			
	(2)	Band 4			Yes	Yes	Yes	Yes	30
		Band 29			Yes	Yes			
4A-48A	(0)	Band 4			Yes	Yes	Yes	Yes	40
		Band 48			Yes	Yes	Yes	Yes	
4A-71A	(0)	Band 4			Yes	Yes	Yes	Yes	40
		Band 71			Yes	Yes	Yes	Yes	
5A-7A	(0)	Band 5	Yes	Yes	Yes	Yes			30
		Band 7				Yes	Yes	Yes	
	(1)	Band 5			Yes	Yes			30
		Band 7				Yes	Yes	Yes	
	(2)	Band 5				Yes	Yes	Yes	50
		Band 7			Yes	Yes			
5A-48A	(0)	Band 5			Yes	Yes			30
		Band 48			Yes	Yes	Yes	Yes	
5A-66A	(0)	Band 5			Yes	Yes			30
		Band 48			Yes	Yes	Yes	Yes	
7A-12A	(0)	Band 7			Yes	Yes	Yes	Yes	30
		Band 12			Yes	Yes			
7A-13A	(0)	Band 7			Yes	Yes	Yes	Yes	30
		Band 13			Yes	Yes			
7A-29A	(0)	Band 7			Yes	Yes	Yes	Yes	30
		Band 29			Yes	Yes			
7A-66A	(0)	Band 7			Yes	Yes	Yes	Yes	40
		Band 66			Yes	Yes	Yes	Yes	
12A-25A	(0)	Band 12			Yes	Yes			30
		Band 25			Yes	Yes	Yes	Yes	
12A-48A	(0)	Band 12			Yes	Yes			30
		Band 48			Yes	Yes	Yes	Yes	
12A-66A	(0)	Band 12			Yes	Yes			20
		Band 66	Yes	Yes	Yes	Yes			
	(1)	Band 12			Yes	Yes			30
		Band 66	Yes	Yes	Yes	Yes	Yes	Yes	
	(2)	Band 12			Yes	Yes	Yes	Yes	30
		Band 66			Yes	Yes			
	(3)	Band 12			Yes	Yes			20
		Band 66			Yes	Yes			
	(4)	Band 12			Yes	Yes	Yes	Yes	30
		Band 66			Yes				
	(5)	Band 12			Yes	Yes	Yes		20
		Band 66			Yes	Yes			
13A-48A	(0)	Band 13			Yes	Yes			30
		Band 48			Yes	Yes	Yes	Yes	
13A-66A	(0)	Band 13			Yes	Yes			30
		Band 66			Yes	Yes	Yes	Yes	
14A-66A	(0)	Band 14			Yes	Yes			30
		Band 66			Yes	Yes	Yes	Yes	
66A-29A	(0)	Band 29			Yes	Yes			30
		Band 66			Yes	Yes	Yes	Yes	
66A-48A	(0)	Band 48			Yes	Yes	Yes	Yes	40
		Band 66			Yes	Yes	Yes	Yes	
66A-71A	(0)	Band 66			Yes	Yes	Yes	Yes	40
		Band 71			Yes	Yes	Yes	Yes	
71A-48A	(0)	Band 71			Yes	Yes	Yes	Yes	40
		Band 48			Yes	Yes	Yes	Yes	

2. DL Inter Band(3CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth 1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Max Aggregated
2A-7A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 7			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
2A-12B	(0)	Band 2			Yes	Yes	Yes	Yes	35
		Band 12	12B BCS 0						
2A-12A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 12			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-13A-48A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 13			Yes	Yes			
		Band 48			Yes	Yes	Yes	Yes	
2A-13A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 13			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-14A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 14			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-29A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 29			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-48A-48A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 48	48A-48A BCS 0						
2A-48C	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 48	48C BCS 0						
2A-48A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 48			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
2A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 66	66A-66A BCS 0						
2A-66B	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 66	66B BCS 0						
2A-66C	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 66	66C BCS 0						
2A-66A-71A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 66			Yes	Yes	Yes	Yes	
		Band 71			Yes	Yes	Yes	Yes	
4A-4A-5A	(0)	Band 4	4A-4A BCS 0						50
		Band 5			Yes	Yes			
4A-4A-7A	(0)	Band 4	4A-4A BCS 0						40
		Band 7			Yes	Yes	Yes	Yes	
	(1)	Band 4	4A-4A BCS 0						60
		Band 7			Yes	Yes	Yes	Yes	
4A-4A-12A	(0)	Band 4	4A-4A BCS 0						50
		Band 12			Yes	Yes			
4A-4A-13A	(0)	Band 4	4A-4A BCS 0						50
		Band 13				Yes			
4A-4A-29A	(0)	Band 4	4A-4A BCS 0						50
		Band 29			Yes	Yes			
4A-4A-71A	(0)	Band 4	4A-4A BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
4A-5B	(0)	Band 4			Yes	Yes	Yes	Yes	40
		Band 5	5B BCS 0						
4A-7A-7A	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 7	7A-7A BCS 1						
4A-7C	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 7	7C BCS 0						
4A-7A-12A	(0)	Band 2			Yes	Yes			40
		Band 7			Yes	Yes	Yes	Yes	
		Band 12			Yes	Yes			
	(1)	Band 2			Yes	Yes	Yes	Yes	50
		Band 7			Yes	Yes	Yes	Yes	
		Band 12			Yes	Yes			
4A-12B	(0)	Band 4			Yes	Yes	Yes	Yes	35
		Band 12	12B BCS 0						
4A-48C	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 48	48C BCS 0						

3. DL Inter Band(4CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth 1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Max Aggregated
2A-5B-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 5	5B BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
2A-5A-7A-7A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 5			Yes	Yes			
		Band 7	7A-7A BCS 1						
2A-5A-48C	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	Yes	70
		Band 5			Yes	Yes			
		Band 48	48C BCS 0						
2A-5A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 5			Yes	Yes			
		Band 66	66A-66A BCS 0						
2A-5A-66B	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 5			Yes	Yes			
		Band 66	66B BCS 0						
2A-5A-66C	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 5			Yes	Yes			
		Band 66	66C BCS 0						
2A-7A-7A-13A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 7	7A-7A BCS 1						
		Band 13			Yes	Yes			
2A-7C-13A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 7	7C BCS 1						
		Band 13			Yes	Yes			
2A-7A-7A-29A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 7	7A-7A BCS 1						
		Band 29			Yes	Yes			
2A-7C-29A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 7	7C BCS 1						
		Band 29			Yes	Yes			
2A-7A-7A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 7	7A-7A BCS 1						
		Band 66			Yes	Yes	Yes	Yes	
2A-7C-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 7	7C BCS 1						
		Band 66			Yes	Yes	Yes	Yes	
2A-7A-12B	(0)	Band 2			Yes	Yes	Yes	Yes	55
		Band 7			Yes	Yes	Yes	Yes	
		Band 12	12B BCS 0						
2A-7A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 7			Yes	Yes	Yes	Yes	
		Band 66	66A-66A BCS 0						
2A-12B-66A	(0)	Band 2			Yes	Yes	Yes	Yes	55
		Band 12	12B BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
2A-12A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 12			Yes	Yes			
		Band 66	66A-66A BCS 0						
2A-12A-66C	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 12			Yes	Yes			
		Band 66	66C BCS 0						
2A-13A-48C	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 13			Yes	Yes			
		Band 48	48C BCS 0						
2A-13A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 13			Yes	Yes			
		Band 66	66A-66A BCS 0						
2A-13A-66B	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 13			Yes	Yes			
		Band 66	66B BCS 0						
2A-13A-66C	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 13			Yes	Yes			
		Band 66	66C BCS 0						
2A-14A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 14			Yes	Yes			
		Band 66	66A-66A BCS 0						

LTE Downlink Carrier Aggregation configurations (Continued)

2. DL Inter Band(3CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregated
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
5A-5A-66A	(0)	Band 5	5A-5A BCS 0						40
		Band 66			Yes	Yes	Yes	Yes	
5B-66A	(0)	Band 5	5B BCS 0						40
		Band 66			Yes	Yes	Yes	Yes	
5A-7A-7A	(0)	Band 5			Yes	Yes			50
		Band 7	7A BCS 0						
5A-7C	(0)	Band 5			Yes	Yes			50
		Band 7	7C BCS 1						
5A-7A-66A	(0)	Band 5			Yes	Yes			50
		Band 7				Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
5A-48C	(0)	Band 5			Yes	Yes			50
		Band 48	48C BCS 1						
5A-48A-66A	(0)	Band 5			Yes	Yes			50
		Band 48			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
5A-66A-66A	(0)	Band 5			Yes	Yes			50
		Band 66	66A-66A BCS 0						
5A-66B	(0)	Band 5			Yes	Yes			30
		Band 66	66B BCS 0						
5A-66C	(0)	Band 5			Yes	Yes			50
		Band 66	66C BCS 0						
7A-7A-13A	(0)	Band 7	7A-7A BCS 1						50
		Band 13			Yes	Yes			
7C-13A	(0)	Band 7	7C BCS 1						50
		Band 13			Yes	Yes			
7C-25A	(0)	Band 7	7C BCS 1						50
		Band 25	Yes	Yes	Yes	Yes	Yes	Yes	
7A-7A-29A	(0)	Band 7	7A-7A BCS 1						50
		Band 29			Yes	Yes			
7C-29A	(0)	Band 7	7C BCS 1						50
		Band 29			Yes	Yes			
7A-7A-66A	(0)	Band 7	7A-7A BCS 1						60
		Band 66			Yes	Yes	Yes	Yes	
7C-66A	(0)	Band 7	7C BCS 1						60
		Band 66			Yes	Yes	Yes	Yes	
7A-12B	(0)	Band 7			Yes	Yes	Yes	Yes	35
		Band 12	12B BCS 0						
7A-12A-66A	(0)	Band 7			Yes	Yes	Yes	Yes	50
		Band 12			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
7A-13A-66A	(0)	Band 7			Yes	Yes	Yes	Yes	50
		Band 13			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
7A-29A-66A	(0)	Band 7			Yes	Yes	Yes	Yes	50
		Band 29			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
7A-66A-66A	(0)	Band 7			Yes	Yes	Yes	Yes	60
		Band 66	66A-66A BCS 0						
12B-66A	(0)	Band 12	12B BCS 0						35
		Band 66			Yes	Yes	Yes	Yes	
12A-48C	(0)	Band 12			Yes	Yes			50
		Band 48	48C BCS 0						
12A-66A-66A	(0)	Band 12			Yes	Yes			50
		Band 66	66A-66A BCS 0						

3. DL Inter Band(4CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregated
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
2A-48A-48C	(0)	Band 2			Yes	Yes	Yes	Yes	100
		Band 48	48A-48C BCS 0						
2A-48D	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 48	48D BCS 0						
2A-48C-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 48	48C BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
2A-66A-66B	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 66	66A-66B BCS 0						
2A-66A-66A-71A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 66	66A-66A BCS 0						
		Band 71			Yes	Yes	Yes	Yes	
2A-66C-71A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 66	66C BCS 0						
		Band 71			Yes	Yes	Yes	Yes	
4A-4A-5B	(0)	Band 4	4A-4A BCS 0						60
		Band 5	5B BCS 0						
4A-4A-12B	(0)	Band 4	4A-4A BCS 0						55
		Band 12	12B BCS 0						
4A-48D	(0)	Band 4			Yes	Yes	Yes	Yes	80
		Band 48	48D BCS 0						
5A-5A-66A-66A	(0)	Band 5	5A-5A BCS 0						60
		Band 66	66A-66A BCS 0						
5A-5A-66B	(0)	Band 5	5A-5A BCS 0						40
		Band 66	66B BCS 0						
5A-5A-66C	(0)	Band 5	5A-5A BCS 0						60
		Band 66	66C BCS 0						
5B-66A-66A	(0)	Band 5	5B BCS 0						60
		Band 66	66A-66A BCS 0						
5B-66B	(0)	Band 5	5B BCS 0						40
		Band 66	66B BCS 0						
5B-66C	(0)	Band 5	5B BCS 0						60
		Band 66	66C BCS 0						
5A-7C-66A	(0)	Band 5			Yes	Yes			70
		Band 7	7C BCS 1						
		Band 66			Yes	Yes	Yes	Yes	
5A-7A-66A-66A	(0)	Band 5			Yes	Yes			70
		Band 7				Yes	Yes	Yes	
		Band 66	66A-66A BCS 0						
5A-48D	(0)	Band 5			Yes	Yes			70
		Band 48	48D BCS 0						
5A-48C-66A	(0)	Band 5			Yes	Yes			70
		Band 48	48C BCS 0						
		Band 66	Yes	Yes	Yes	Yes	Yes	Yes	
5A-48A-66A-66A	(0)	Band 5			Yes	Yes			70
		Band 48			Yes	Yes	Yes	Yes	
		Band 66	66A-66A BCS 0						
7C-13A-66A	(0)	Band 7	7C BCS 1						70
		Band 13			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
7C-25A-25A	(0)	Band 7	7C BCS 1						80
		Band 25	25A-25A BCS 1						
7A-7A-29A-66A	(0)	Band 7	7A-7A BCS 1						70
		Band 29			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	

LTE Downlink Carrier Aggregation configurations (Continued)

2. DL Inter Band(3CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregated
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
12A-66C	(0)	Band 12			Yes	Yes			50
		Band 66	66C BCS 0						
13A-48A-48A	(0)	Band 13			Yes	Yes			50
		Band 48	48A-48A BCS 0						
13A-48C	(0)	Band 13			Yes	Yes			50
		Band 48	48C BCS 0						
13A-48A-66A	(0)	Band 13			Yes	Yes			50
		Band 48			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
13A-66A-66A	(0)	Band 13			Yes	Yes			50
		Band 66	66A-66A BCS 0						
13A-66B	(0)	Band 13			Yes	Yes			30
		Band 66	66B BCS 0						
13A-66C	(0)	Band 13			Yes	Yes			50
		Band 66	66C BCS 0						
14A-66A-66A	(0)	Band 14			Yes	Yes			50
		Band 66	66A-66A BCS 0						
29A-66A-66A	(0)	Band 29			Yes	Yes			50
		Band 66	66A-66A BCS 0						
48A-48A-66A	(0)	Band 48	48A-48A BCS 0						60
		Band 66			Yes	Yes	Yes	Yes	
48C-66A	(0)	Band 48	48C BCS 0						60
		Band 66			Yes	Yes	Yes	Yes	
48A-66A-66A	(0)	Band 48			Yes	Yes	Yes	Yes	60
		Band 66	66A-66A BCS 0						
48A-66B	(0)	Band 48			Yes	Yes	Yes	Yes	40
		Band 66	66B BCS 0						
48A-66C	(0)	Band 48			Yes	Yes	Yes	Yes	60
		Band 66	66C BCS 0						
66A-66A-71A	(0)	Band 66	66B BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
66C-71A	(0)	Band 66	66C BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
48A-48A-71A	(0)	Band 48	48A-48A BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
48C-71A	(0)	Band 48	48C BCS 0						60
		Band 66			Yes	Yes	Yes	Yes	

3. DL Inter Band(4CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregated
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
7C-29A-66A	(0)	Band 7	7C BCS 2						70
		Band 29			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
7A-7A-66A-66A	(0)	Band 7	7A-7A BCS 1						80
		Band 66	66A-66A BCS 0						
7C-66A-66A	(0)	Band 7	7C BCS 1						80
		Band 66	66A-66A BCS 0						
7C-12B-66A	(0)	Band 7							
		Band 12							
		Band 66							
12B-66A-66A	(0)	Band 12	12B BCS 0						55
		Band 66	66A-66A BCS 0						
13A-48A-48C	(0)	Band 13			Yes	Yes			70
		Band 48	48A-48C BCS 0						
13A-48D	(0)	Band 13			Yes	Yes			70
		Band 48	48D BCS 0						
13A-48C-66A	(0)	Band 13			Yes	Yes			70
		Band 48	48C BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
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-66A-66B	(0)	Band 13			Yes	Yes			50
		Band 66	66A-66B BCS 0						
25A-41D	(0)	Band 25			Yes	Yes	Yes	Yes	80
		Band 41	41D BCS 0						
48A-48C-66A	(0)	Band 48	48A-48C BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
48D-66A	(0)	Band 48	48D BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
48A-48A-66A-66A	(0)	Band 48	48A-48A BCS 0						80
		Band 66	66A-66A BCS 0						
48C-66A-66A	(0)	Band 48	48C BCS 0						80
		Band 66	66A-66A BCS 0						
48A-48A-66B	(0)	Band 48	48A-48A BCS 0						80
		Band 66	66B BCS 0						
48C-66B	(0)	Band 48	48C BCS 0						60
		Band 66	66B BCS 0						
48A-48A-66C	(0)	Band 48	48A-48A BCS 0						80
		Band 66	66C BCS 0						
48C-66C	(0)	Band 48	48C BCS 0						80
		Band 66	66C BCS 0						

LTE Downlink Carrier Aggregation configurations (Continued)

4. 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
5A-5A	(0)	Band 5	5, 10	5, 10			20
	(1)	Band 5	3	5			8
7A-7A	(0)	Band 7	5	15			40
		Band 7	10	10, 15			
		Band 7	15	15, 20			
		Band 7	20	20			
	(1)	Band 7	5, 10, 15, 20	5, 10, 15, 20			40
	(2)	Band 7	5, 10, 15, 20	5, 10			30
	(3)	Band 7	10, 15, 20	10, 15, 20			40
25A-25A	(0)	Band 25	5, 10	5, 10			20
	(1)	Band 25	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
66A-66A	(0)	Band 66	5, 10, 15, 20	5, 10, 15, 20			40
41A-41C	(0)	Band 41	5, 10, 15, 20	41C BCS 1			60
		Band 41	41C BCS 1	5, 10, 15, 20			
48A-48C	(0)	Band 48	5, 10, 15, 20	48C BCS 0			60
		Band 48	48C BCS 0	5, 10, 15, 20			
66A-66B	(0)	Band 66	5, 10, 15, 20	66B BCS 0			40
		Band 66	66B BCS 0	5, 10, 15, 20			
66A-66C	(0)	Band 66	5, 10, 15, 20	66C BCS 0			60
		Band 66	66C BCS 0	5, 10, 15, 20			
48A-48D	(0)	Band 48	5, 10, 15, 20	48D BCS 0			80
		Band 48	48D BCS 0	5, 10, 15, 20			
48C-48C	(0)	Band 48	48C BCS 0	48C BCS 0			80

5. 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	
2C	(0)	Band 2	5	20			40
			10	15, 20			
			15	10,15, 20			
			20	5, 10, 15, 20			
5B	(0)	Band 5	5	20			20
			10	15, 20			
	(1)	Band 5	15	10,15, 20			8
			20	5, 10, 15, 20			
7C	(0)	Band 7	15	15			40
			20	20			
	(1)	Band 7	10	20			40
			15	15, 20			
			20	10, 15, 20			
	(0)	Band 7	15	10, 15			40
			20	15, 20			
12B	(0)	Band 12	5	10, 15			15
41C	(0)	Band 41	10	20			40
			15	15, 20			
			20	10, 15, 20			
	(1)	Band 41	5, 10	20			40
			15	15, 20			
			20	5, 10, 15, 20			
	(2)	Band 41	10	15, 20			40
			15	10, 15, 20			
			20	10, 15, 20			
	(3)	Band 41	10	20			40
			20	20			
48C	(0)	Band 48	5, 10, 15, 20	20			40
			20	5, 10, 15			
66B	(0)	Band 66	5	5, 10, 15			20
			10	5, 10			
			15	5			
66C	(0)	Band 66	5	20			40
			10	15, 20			
			15	10,15, 20			
			20	5, 10, 15, 20			
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		
48D	(0)	Band 48	5, 10, 15, 20	20	20		60
			20	20	5, 10, 15		
48E	(0)	Band 48	5, 10, 15, 20	20	20	20	80
			20	20	20	5, 10, 15	

LTE Downlink Carrier Aggregation configurations (Continued)

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	
41C	(0)	Band 41	10	20			40
			15	15, 20			
			20	10, 15, 20			
	(1)	Band 41	5, 10	20			40
			15	15, 20			
			20	10, 15, 20			
	(2)	Band 41	10	15, 20			40
			15	10, 15, 20			
			20	10, 15, 20			
	(3)	Band 41	10	20			40
			20	20			

Note(s):

LTE CA_41C is supported in both Uplink and Downlink, other CA configurations are supported only Downlink.

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;

a) When the maximum output for UL CA is ≤ 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.

b) 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).

c) 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.

RF Exposure conditions	Pwr back-off	Antenna	E-UTRA CA configuration (BCS)	Bands		DL						UL																		
				PCC	SCC	PCC			SCC			PCC						SCC						MPR	Standalone	PCC + SCC				
				1st	2nd	BW	Freq	ch	BW	Freq	ch	Modulation	RB	Offset	BW	Freq	ch	Modulation	RB	Offset	BW	Freq	ch		LTE Rel.8	Aggregated BW	MPR	Tune-Up Limit	CA power (total PCC+SCC)	3GPP Rel.
Standalone(Max)	Off	Main 2	CA_41C(0)(1)(2)(3)	41C	41C	20	2506.0	39750	20	2525.8	39948	QPSK	1	99	20	2506.0	39750	QPSK	1	0	20	2525.8	39948	0	23.00	40	0	24.0	23.20	16
																										40	0			
																										40	0			
Standalone(Reduced)	On	Main 2	CA_41C(0)(1)(2)(3)	41C	41C	20	2549.5	40185	20	2569.3	40383	QPSK	1	99	20	2549.5	40185	QPSK	1	0	20	2569.3	40383	0	13.13	40	0	14.0	13.30	16
																										40	0			
																										40	0			

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
2CC#1	2A-2A		4CC#1
2CC#2	2C		4CC#17
2CC#3	2A-4A		4CC#1
2CC#4	2A-5A		4CC#6
2CC#5	2A-7A		4CC#9
2CC#6	2A-12A		3CC#4
2CC#7	2A-13A		3CC#5
2CC#8	2A-14A		3CC#6
2CC#9	2A-29A	29A SCC only	3CC#7
2CC#10	2A-48A	48A SCC only	3CC#19
2CC#11	2A-66A		3CC#25
2CC#12	2A-71A		3CC#16
2CC#13	4A-4A		3CC#39
2CC#14	4A-5A		3CC#39
2CC#15	4A-7A		3CC#40
2CC#16	4A-12A		3CC#48
2CC#17	4A-13A		3CC#42
2CC#18	4A-29A	29A SCC only	3CC#43
2CC#19	4A-48A	48A SCC only	
2CC#20	4A-71A		3CC#44
2CC#21	5A-5A		3CC#51
2CC#22	5B		3CC#52
2CC#23	5A-7A		3CC#53
2CC#24	5A-25A		
2CC#25	5A-48A	48A SCC only	3CC#57
2CC#26	5A-66A		3CC#51
2CC#27	7C		3CC#54
2CC#28	7A-12A		3CC#69
2CC#29	7A-13A		3CC#61
2CC#30	7A-29A	29A SCC only	3CC#64
2CC#31	7A-66A		3CC#69
2CC#32	12B		3CC#68
2CC#33	12A-25A		
2CC#34	12A-48A	48A SCC only	
2CC#35	12A-66A		3CC#75
2CC#36	13A-48A	48A SCC only	3CC#79
2CC#37	13A-66A		3CC#80
2CC#38	14A-66A		3CC#83
2CC#39	25A-25A		
2CC#40	41A-41A		
2CC#41	41C		3CC#85
2CC#42	48A-48A		
2CC#43	48C		3CC#88
2CC#44	66A-29A	29A SCC only	
2CC#45	66A-48A	48A SCC only	3CC#93
2CC#46	66A-66A		3CC#98
2CC#47	66B		3CC#96
2CC#48	66C		3CC#97
2CC#49	66A-71A		3CC#98
2CC#50	71A-48A	48A SCC only	3CC#100

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#1	2A-2A-4A		4CC#1
3CC#2	2A-2A-5A		4CC#6
3CC#3	2A-2A-7A		4CC#8
3CC#4	2A-2A-12A		4CC#11
3CC#5	2A-2A-13A		4CC#12
3CC#6	2A-2A-14A		4CC#13
3CC#7	2A-2A-29A	29A SCC only	
3CC#8	2A-2A-66A		4CC#18
3CC#9	2C-66A		4CC#17
3CC#10	2A-4A-4A		4CC#1
3CC#11	2A-4A-5A		4CC#2
3CC#12	2A-4A-7A		4CC#22
3CC#13	2A-4A-12A		4CC#3
3CC#14	2A-4A-13A		
3CC#15	2A-4A-29A	29A SCC only	
3CC#16	2A-4A-71A		
3CC#17	2A-5B		4CC#5
3CC#18	2A-5A-7A		4CC#26
3CC#19	2A-5A-48A	48A SCC only	
3CC#20	2A-5A-66A		4CC#28
3CC#21	2A-7A-7A		4CC#31
3CC#22	2A-7C		4CC#34
3CC#23	2A-7A-13A		4CC#31
3CC#24	2A-7A-29A	29A SCC only	4CC#33
3CC#25	2A-7A-66A		4CC#35
3CC#26	2A-12B		4CC#39
3CC#27	2A-12A-66A		4CC#40
3CC#28	2A-13A-48A	48A SCC only	
3CC#29	2A-13A-66A		4CC#43
3CC#30	2A-14A-66A		4CC#46
3CC#31	2A-29A-66A	29A SCC only	
3CC#32	2A-48A-48A	48A SCC only	
3CC#33	2A-48C	48C SCC only	4CC#47
3CC#34	2A-48A-66A	48A SCC only	
3CC#35	2A-66A-66A		4CC#51
3CC#36	2A-66B		4CC#50
3CC#37	2A-66C		4CC#52
3CC#38	2A-66A-71A		4CC#51
3CC#39	4A-4A-5A		
3CC#40	4A-4A-7A		
3CC#41	4A-4A-12A		
3CC#42	4A-4A-13A		
3CC#43	4A-4A-29A	29A SCC only	
3CC#44	4A-4A-71A		
3CC#45	4A-5B		4CC#53
3CC#46	4A-7A-7A		
3CC#47	4A-7C		
3CC#48	4A-7A-12A		
3CC#49	4A-12B		4CC#54
3CC#50	4A-48C	48C SCC only	

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#51	5A-5A-66A		4CC#56
3CC#52	5B-66A		4CC#59
3CC#53	5A-7A-7A		
3CC#54	5A-7C		4CC#62
3CC#55	5A-7A-66A		4CC#69
3CC#56	5A-48C	48C SCC only	
3CC#57	5A-48A-66A	48A SCC only	4CC#66
3CC#58	5A-66A-66A		4CC#56
3CC#59	5A-66B		4CC#57
3CC#60	5A-66C		4CC#58
3CC#61	7A-7A-13A		
3CC#62	7C-13A		4CC#67
3CC#63	7C-25A		4CC#69
3CC#64	7A-7A-29A	29A SCC only	4CC#70
3CC#65	7C-29A	29A SCC only	4CC#71
3CC#66	7A-7A-66A		4CC#72
3CC#67	7C-66A		4CC#73
3CC#68	7A-12B		4CC#74
3CC#69	7A-12A-66A		
3CC#70	7A-13A-66A		
3CC#71	7A-29A-66A	29A SCC only	4CC#70
3CC#72	7A-66A-66A		4CC#72
3CC#73	12B-66A		4CC#75
3CC#74	12A-48C	48C SCC only	
3CC#75	12A-66A-66A		
3CC#76	12A-66C		
3CC#77	13A-48A-48A	48A SCC only	
3CC#78	13A-48C	48C SCC only	4CC#76
3CC#79	13A-48A-66A	48A SCC only	
3CC#80	13A-66A-66A		
3CC#81	13A-66B		4CC#79
3CC#82	13A-66C		4CC#80
3CC#83	14A-66A-66A		
3CC#84	41A-41C		
3CC#85	41C-41A		
3CC#86	41D		
3CC#87	48A-48C		
3CC#88	48C-48A		3CC#86
3CC#89	48D		4CC#87
3CC#90	66A-29A-66A	29A SCC only	
3CC#91	66A-48A-48A	48A SCC only	4CC#88
3CC#92	66A-48C	48C SCC only	4CC#86
3CC#93	66A-48A-66A	48A SCC only	
3CC#94	66B-48A	48A SCC only	4CC#90
3CC#95	66C-48A	48A SCC only	4CC#92
3CC#96	66A-66B		
3CC#97	66A-66C		
3CC#98	66A-66A-71A		
3CC#99	66C-71A		
3CC#100	71A-48A-48A	48A SCC only	

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#1	2A-2A-4A-4A		
4CC#2	2A-2A-4A-5A		
4CC#3	2A-2A-4A-12A		
4CC#4	2A-2A-4A-71A		
4CC#5	2A-2A-5B		
4CC#6	2A-2A-5A-66A		
4CC#7	2A-2A-7C		
4CC#8	2A-2A-7A-12A		
4CC#9	2A-2A-7A-66A		
4CC#10	2A-2A-12B		
4CC#11	2A-2A-12A-66A		
4CC#12	2A-2A-13A-66A		
4CC#13	2A-2A-14A-66A		
4CC#14	2A-2A-66A-66A		
4CC#15	2A-2A-66B		
4CC#16	2A-2A-66C		
4CC#17	2C-66A-66A		
4CC#18	2A-2A-66A-71A		
4CC#19	2A-4A-4A-5A		
4CC#20	2A-4A-4A-12A		
4CC#21	2A-4A-5B		
4CC#22	2A-4A-7A-7A		
4CC#23	2A-4A-7C		
4CC#24	2A-4A-12B		
4CC#25	2A-5B-66A		
4CC#26	2A-5A-7A-7A		
4CC#27	2A-5A-48C	48C SCC only	
4CC#28	2A-5A-66A-66A		
4CC#29	2A-5A-66B		
4CC#30	2A-5A-66C		
4CC#31	2A-7A-7A-13A		
4CC#32	2A-7C-13A		
4CC#33	2A-7A-7A-29A	29A SCC only	
4CC#34	2A-7C-29A	29A SCC only	
4CC#35	2A-7A-7A-66A		
4CC#36	2A-7C-66A		
4CC#37	2A-7A-12B		
4CC#38	2A-7A-66A-66A		
4CC#39	2A-12B-66A		
4CC#40	2A-12A-66A-66A		
4CC#41	2A-12A-66C		
4CC#42	2A-13A-48C	48C SCC only	
4CC#43	2A-13A-66A-66A		
4CC#44	2A-13A-66B		
4CC#45	2A-13A-66C		
4CC#46	2A-14A-66A-66A		
4CC#47	2A-48A-48C	48A, 48C SCC only	
4CC#48	2A-48D	48D SCC only	
4CC#49	2A-48C-66A	48C SCC only	
4CC#50	2A-66A-66B		

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#52	2A-66C-71A		
4CC#53	4A-4A-5B		
4CC#54	4A-4A-12B		
4CC#55	4A-48D	48D SCC only	
4CC#56	5A-5A-66A-66A		
4CC#57	5A-5A-66B		
4CC#58	5A-5A-66C		
4CC#59	5B-66A-66A		
4CC#60	5B-66B		
4CC#61	5B-66C		
4CC#62	5A-7C-66A		
4CC#63	5A-7A-66A-66A		
4CC#64	5A-48D	48D SCC only	
4CC#65	5A-48C-66A	48C SCC only	
4CC#66	5A-48A-66A-66A	48A SCC only	
4CC#67	7C-13A-66A		
4CC#68	7C-25A-25A		
4CC#69	7C-25A-66A		
4CC#70	7A-7A-29A-66A	29A SCC only	
4CC#71	7C-29A-66A	29A SCC only	
4CC#72	7A-7A-66A-66A		
4CC#73	7C-66A-66A		
4CC#74	7A-12B-66A		
4CC#75	12B-66A-66A		
4CC#76	13A-48A-48C	48A, 48C SCC only	
4CC#77	13A-48D	48D SCC only	
4CC#78	13A-48C-66A	48C SCC only	
4CC#79	13A-48A-66B	48A SCC only	
4CC#80	13A-48A-66C	48A SCC only	
4CC#81	13A-66A-66B		
4CC#82	25A-41D	41D SCC only	
4CC#83	48A-48D		
4CC#84	48C-48C		
4CC#85	48E		
4CC#86	66A-48A-48C	48A, 48C SCC only	
4CC#87	66A-48D	48D SCC only	
4CC#88	66A-48A-48A-66A	48A SCC only	
4CC#89	66A-48C-66A	48C SCC only	
4CC#90	66B-48A-48A	48A SCC only	
4CC#91	66B-48C	48C SCC only	
4CC#92	66C-48A-48A	48A SCC only	
4CC#93	66C-48C	48C 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

2CC	Restriction	Completely Covered by Measurement Superset
2A-[2A]		4CC#2
[2A]-[2A]		4CC#5
[2C]		4CC#56
2A-[4A]		4CC#1
[2A]-4A		4CC#2
[2A]-[4A]		4CC#4
[2A]-5A		4CC#7
[2A]-7A		4CC#24
[2A]-12A		4CC#11
[2A]-13A		4CC#37
[2A]-14A		4CC#41
[2A]-29A	29A SCC only	4CC#96
2A-[48A]	48A SCC only	4CC#133
[2A]-48A	48A SCC only	4CC#134
[2A]-[48A]	48A SCC only	4CC#135
2A-[66A]		4CC#20
[2A]-66A		4CC#21
[2A]-[66A]		4CC#22
[2A]-71A		4CC#15
4A-[4A]		4CC#1
[4A]-[4A]		4CC#3
[4A]-5A		4CC#6
[4A]-7A		4CC#73
[4A]-12A		4CC#10
[4A]-13A		3CC#117
[4A]-29A	29A SCC only	3CC#118
4A-[48A]	48A SCC only	
[4A]-48A	48A SCC only	
[4A]-[48A]	48A SCC only	
[4A]-71A		4CC#14
5A-[25A]		
5A-[48A]	48A SCC only	4CC#169
5A-[66A]		4CC#22
7A-[66A]		4CC#26
12A-[48A]	48A SCC only	
12A-[66A]		4CC#32
13A-[48A]	48A SCC only	4CC#185
13A-[66A]		4CC#36
14A-[66A]		4CC#40
25A-[25A]		
[25A]-[25A]		
41A-[41A]		
[41A]-[41A]		
[41C]		3CC#166
48A-[48A]		
[48A]-[48A]		
[48C]		4CC#192
[66A]-29A	29A SCC only	4CC#172
66A-[48A]	48A SCC only	4CC#169
[66A]-48A	48A SCC only	4CC#168
[66A]-[48A]	48A SCC only	4CC#171
66A-[66A]		4CC#44
[66A]-[66A]		4CC#46
[66B]		4CC#49
[66C]		4CC#52
[66A]-71A		4CC#58
71A-[48A]	48A SCC only	3CC#202

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#1	2A-2A-[4A]		4CC#1
3CC#2	2A-[2A]-4A		4CC#2
3CC#3	2A-[2A]-[4A]		4CC#4
3CC#4	[2A]-[2A]-4A		4CC#5
3CC#5	[2A]-[2A]-[4A]		
3CC#6	2A-[2A]-5A		4CC#7
3CC#7	[2A]-[2A]-5A		4CC#9
3CC#8	2A-[2A]-7A		4CC#24
3CC#9	[2A]-[2A]-7A		4CC#25
3CC#10	2A-[2A]-12A		4CC#24
3CC#11	[2A]-[2A]-12A		4CC#13
3CC#12	2A-[2A]-13A		4CC#37
3CC#13	[2A]-[2A]-13A		4CC#39
3CC#14	2A-[2A]-14A		4CC#41
3CC#15	[2A]-[2A]-14A		4CC#43
3CC#16	2A-[2A]-29A	29A SCC only	
3CC#17	[2A]-[2A]-29A	29A SCC only	
3CC#18	2A-2A-[66A]		4CC#20
3CC#19	2A-[2A]-66A		4CC#21
3CC#20	2A-[2A]-[66A]		4CC#22
3CC#21	[2A]-[2A]-66A		4CC#23
3CC#22	[2A]-[2A]-[66A]		
3CC#23	2C-[66A]		4CC#55
3CC#24	[2C]-66A		4CC#56
3CC#25	[2C]-[66A]		
3CC#26	2A-[2A]-71A		4CC#15
3CC#27	[2A]-[2A]-71A		4CC#17
3CC#28	2A-[4A]-4A		4CC#1
3CC#29	[2A]-4A-4A		4CC#2
3CC#30	2A-[4A]-[4A]		4CC#3
3CC#31	[2A]-[4A]-4A		4CC#4
3CC#32	[2A]-[4A]-[4A]		
3CC#33	2A-[4A]-5A		4CC#6
3CC#34	[2A]-4A-5A		4CC#7
3CC#35	[2A]-[4A]-5A		4CC#8
3CC#36	2A-[4A]-7A		4CC#73
3CC#37	[2A]-4A-7A		4CC#74
3CC#38	[2A]-[4A]-7A		4CC#75
3CC#39	2A-[4A]-12A		4CC#10
3CC#40	[2A]-4A-12A		4CC#11
3CC#41	[2A]-[4A]-12A		4CC#12
3CC#42	2A-[4A]-13A		
3CC#43	2A-[4A]-13A		
3CC#44	[2A]-[4A]-13A		
3CC#45	2A-[4A]-29A	29A SCC only	
3CC#46	[2A]-4A-29A	29A SCC only	
3CC#47	[2A]-[4A]-29A	29A SCC only	
3CC#48	2A-[4A]-71A		4CC#14
3CC#49	[2A]-4A-71A		4CC#15
3CC#50	[2A]-[4A]-71A		4CC#16
3CC#51	[2A]-5B		4CC#18
3CC#52	[2A]-5A-7A		
3CC#53	2A-5A-[48A]	48A SCC only	
3CC#54	[2A]-5A-48A	48A SCC only	
3CC#55	[2A]-5A-[48A]	48A SCC only	
3CC#56	2A-5A-[66A]		4CC#20
3CC#57	[2A]-5A-66A		4CC#21
3CC#58	[2A]-5A-[66A]		4CC#22
3CC#59	[2A]-7A-7A		4CC#95
3CC#60	[2A]-7C		4CC#77
3CC#61	[2A]-7A-12A		4CC#24
3CC#62	[2A]-7A-13A		4CC#95
3CC#63	[2A]-7A-29A	29A SCC only	4CC#96
3CC#64	2A-7A-[66A]		4CC#26
3CC#65	[2A]-7A-66A		4CC#27
3CC#66	[2A]-7A-[66A]		4CC#28
3CC#67	[2A]-12B		4CC#30

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#68	2A-12A-[66A]		4CC#32
3CC#69	[2A]-12A-66A		4CC#33
3CC#70	[2A]-12A-[66A]		4CC#34
3CC#71	2A-13A-[48A]	48A SCC only	
3CC#72	[2A]-13A-48A	48A SCC only	
3CC#73	[2A]-13A-[48A]	48A SCC only	
3CC#74	2A-13A-[66A]		4CC#36
3CC#75	[2A]-13A-66A		4CC#37
3CC#76	[2A]-13A-[66A]		4CC#38
3CC#77	2A-14A-[66A]		4CC#40
3CC#78	[2A]-14A-66A		4CC#41
3CC#79	[2A]-14A-[66A]		4CC#42
3CC#80	2A-29A-[66A]	29A SCC only	
3CC#81	[2A]-29A-66A	29A SCC only	
3CC#82	[2A]-29A-[66A]	29A SCC only	
3CC#83	2A-[48A]-48A	48A SCC only	
3CC#84	[2A]-48A-48A	48A SCC only	
3CC#85	2A-[48A]-[48A]	48A SCC only	
3CC#86	[2A]-[48A]-48A	48A SCC only	
3CC#87	2A-[48C]	48C SCC only	4CC#85
3CC#88	[2A]-48C	48C SCC only	4CC#86
3CC#89	[2A]-[48C]	48C SCC only	
3CC#90	2A-48A-[66A]	48A SCC only	
3CC#91	2A-[48A]-66A	48A SCC only	
3CC#92	[2A]-48A-66A	48A SCC only	
3CC#93	2A-[48A]-[66A]	48A SCC only	
3CC#94	[2A]-48A-[66A]	48A SCC only	
3CC#95	[2A]-[48A]-66A	48A SCC only	
3CC#96	2A-[66A]-66A		4CC#44
3CC#97	[2A]-66A-66A		4CC#45
3CC#98	2A-[66A]-[66A]		4CC#46
3CC#99	[2A]-[66A]-66A		4CC#47
3CC#100	[2A]-[66A]-[66A]		
3CC#101	2A-[66B]		4CC#49
3CC#102	[2A]-66B		4CC#50
3CC#103	[2A]-[66B]		
3CC#104	2A-[66C]		4CC#52
3CC#105	[2A]-66C		4CC#53
3CC#106	[2A]-[66C]		
3CC#107	2A-[66A]-71A		4CC#58
3CC#108	[2A]-66A-71A		4CC#59
3CC#109	[2A]-[66A]-71A		4CC#60
3CC#110	4A-[4A]-5A		4CC#62
3CC#111	[4A]-[4A]-5A		4CC#64
3CC#112	4A-[4A]-7A		
3CC#113	[4A]-[4A]-7A		
3CC#114	4A-[4A]-12A		4CC#66
3CC#115	[4A]-[4A]-12A		4CC#68
3CC#116	4A-[4A]-13A		
3CC#117	[4A]-[4A]-13A		
3CC#118	4A-[4A]-29A	29A SCC only	
3CC#119	[4A]-[4A]-29A	29A SCC only	
3CC#120	4A-[4A]-71A		
3CC#121	[4A]-[4A]-71A		
3CC#122	[4A]-5B		4CC#70
3CC#123	[4A]-7A-7A		4CC#73
3CC#124	[4A]-7C		4CC#76
3CC#125	[4A]-7A-12A		
3CC#126	[4A]-12B		4CC#79
3CC#127	4A-[48C]	48C SCC only	
3CC#128	[4A]-48C	48C SCC only	
3CC#129	[4A]-[48C]	48C SCC only	
3CC#130	5A-5A-[66A]		4CC#156
3CC#131	5B-[66A]		4CC#82
3CC#132	5A-7A-[66A]		4CC#164
3CC#133	5A-[48C]	48C SCC only	4CC#85
3CC#134	5A-48A-[66A]	48A SCC only	4CC#168

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#135	5A-[48A]-66A	48A SCC only	4CC#169
3CC#136	5A-[48A]-[66A]	48A SCC only	4CC#171
3CC#137	5A-[66A]-66A		4CC#87
3CC#138	5A-[66A]-[66A]		4CC#89
3CC#139	5A-[66B]		4CC#91
3CC#140	5A-[66C]		4CC#93
3CC#141	7A-7A-[66A]		4CC#98
3CC#142	7C-[66A]		4CC#101
3CC#143	7A-12A-[66A]		
3CC#144	7A-29A-[66A]		4CC#172
3CC#145	7A-[66A]-66A		4CC#105
3CC#146	7A-[66A]-[66A]		4CC#107
3CC#147	12B-[66A]		4CC#109
3CC#148	12A-[48C]	48C SCC only	
3CC#149	12A-[66A]-66A		4CC#112
3CC#150	12A-[66A]-[66A]		4CC#114
3CC#151	12A-[66C]		4CC#116
3CC#152	13A-[48A]-48A	48A SCC only	
3CC#153	13A-[48A]-[48A]	48A SCC only	
3CC#154	13A-[48C]	48C SCC only	4CC#118
3CC#155	13A-48A-[66A]	48A SCC only	
3CC#156	13A-[48A]-66A	48A SCC only	
3CC#157	13A-[48A]-[66A]	48A SCC only	
3CC#158	13A-[66A]-66A		4CC#120
3CC#159	13A-[66A]-[66A]		4CC#122
3CC#160	13A-[66B]		4CC#124
3CC#161	13A-[66C]		4CC#126
3CC#162	14A-[66A]-66A		4CC#128
3CC#163	14A-[66A]-[66A]		4CC#130
3CC#164	41A-[41C]		
3CC#165	[41A]-41C		
3CC#166	[41A]-[41C]		
3CC#167	[41D]		
3CC#168	48A-[48C]		
3CC#169	[48A]-48C		4CC#133
3CC#170	[48A]-[48C]		
3CC#171	[48D]		
3CC#172	66A-29A-[66A]	29A SCC only	
3CC#173	[66A]-29A-[66A]	29A SCC only	
3CC#174	66A-48A-[48A]	48A SCC only	4CC#199
3CC#175	[66A]-48A-48A	48A SCC only	4CC#201
3CC#176	66A-[48A]-[48A]	48A SCC only	4CC#202
3CC#177	[66A]-48A-[48A]	48A SCC only	4CC#203
3CC#178	66A-[48C]	48C SCC only	4CC#138
3CC#179	[66A]-48C	48C SCC only	4CC#137
3CC#180	[66A]-[48C]	48C SCC only	
3CC#181	66A-48A-[66A]	48A SCC only	4CC#198
3CC#182	66A-[48A]-66A	48A SCC only	4CC#199
3CC#183	66A-[48A]-[66A]	48A SCC only	4CC#200
3CC#184	[66A]-48A-[66A]	48A SCC only	4CC#201
3CC#185	[66A]-[48A]-[66A]	48A SCC only	
3CC#186	66B-[48A]	48A SCC only	4CC#185
3CC#187	[66B]-48A	48A SCC only	4CC#184
3CC#188	[66B]-[48A]	48A SCC only	
3CC#189	66C-[48A]	48A SCC only	4CC#187
3CC#190	[66C]-48A	48A SCC only	4CC#186
3CC#191	[66C]-[48A]	48A SCC only	
3CC#192	66A-[66B]		4CC#141
3CC#193	[66A]-66B		4CC#142
3CC#194	[66A]-[66B]		
3CC#195	66A-[66C]		
3CC#196	[66A]-66C		
3CC#197	[66A]-[66C]		
3CC#198	66A-[66A]-71A		4CC#145
3CC#199	[66A]-[66A]-71A		4CC#147
3CC#200	[66C]-71A		4CC#149
3CC#201	71A-48A-[48A]	48A SCC only	
3CC#202	71A-[48A]-[48A]	48A SCC only	
3CC#203	71A-[48C]	48C 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
4CC#1	2A-2A-[4A]-4A		
4CC#2	2A-[2A]-4A-4A		
4CC#3	2A-2A-[4A]-[4A]		
4CC#4	2A-[2A]-[4A]-4A		
4CC#5	[2A]-[2A]-4A-4A		
4CC#6	2A-2A-[4A]-5A		
4CC#7	2A-[2A]-4A-5A		
4CC#8	2A-[2A]-[4A]-5A		
4CC#9	[2A]-[2A]-4A-5A		
4CC#10	2A-2A-[4A]-12A		
4CC#11	2A-[2A]-4A-12A		
4CC#12	2A-[2A]-[4A]-12A		
4CC#13	[2A]-[2A]-4A-12A		
4CC#14	2A-2A-[4A]-71A		
4CC#15	2A-[2A]-4A-71A		
4CC#16	2A-[2A]-[4A]-71A		
4CC#17	[2A]-[2A]-4A-71A		
4CC#18	2A-[2A]-5B		
4CC#19	[2A]-[2A]-5B		
4CC#20	2A-2A-5A-[66A]		
4CC#21	2A-[2A]-5A-66A		
4CC#22	2A-[2A]-5A-[66A]		
4CC#23	[2A]-[2A]-5A-66A		
4CC#24	2A-[2A]-7A-12A		
4CC#25	[2A]-[2A]-7A-12A		
4CC#26	2A-2A-7A-[66A]		
4CC#27	2A-[2A]-7A-66A		
4CC#28	2A-[2A]-7A-[66A]		
4CC#29	[2A]-[2A]-7A-66A		
4CC#30	2A-[2A]-12B		
4CC#31	[2A]-[2A]-12B		
4CC#32	2A-2A-12A-[66A]		
4CC#33	2A-[2A]-12A-66A		
4CC#34	2A-[2A]-12A-[66A]		
4CC#35	[2A]-[2A]-12A-66A		
4CC#36	2A-2A-13A-[66A]		
4CC#37	2A-[2A]-13A-66A		
4CC#38	2A-[2A]-13A-[66A]		
4CC#39	[2A]-[2A]-13A-66A		
4CC#40	2A-2A-14A-[66A]		
4CC#41	2A-[2A]-14A-66A		
4CC#42	2A-[2A]-14A-[66A]		
4CC#43	[2A]-[2A]-14A-66A		
4CC#44	2A-2A-[66A]-66A		
4CC#45	2A-[2A]-66A-66A		
4CC#46	2A-2A-[66A]-[66A]		
4CC#47	2A-[2A]-[66A]-66A		
4CC#48	[2A]-[2A]-66A-66A		
4CC#49	2A-2A-[66B]		
4CC#50	2A-[2A]-66B		
4CC#51	[2A]-[2A]-66B		
4CC#52	2A-2A-[66C]		
4CC#53	2A-[2A]-66C		
4CC#54	[2A]-[2A]-66C		
4CC#55	2C-[66A]-66A		
4CC#56	[2C]-66A-66A		
4CC#57	2C-[66A]-[66A]		
4CC#58	2A-2A-[66A]-71A		
4CC#59	2A-[2A]-66A-71A		
4CC#60	2A-[2A]-[66A]-71A		
4CC#61	[2A]-[2A]-66A-71A		
4CC#62	2A-[4A]-4A-5A		
4CC#63	[2A]-4A-4A-5A		
4CC#64	2A-[4A]-[4A]-5A		
4CC#65	[2A]-[4A]-4A-5A		
4CC#66	2A-[4A]-4A-12A		
4CC#67	[2A]-4A-4A-12A		
4CC#68	2A-[4A]-[4A]-12A		

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#69	[2A]-[4A]-4A-12A		
4CC#70	2A-[4A]-5B		
4CC#71	[2A]-4A-5B		
4CC#72	[2A]-[4A]-5B		
4CC#73	2A-[4A]-7A-7A		
4CC#74	[2A]-4A-7A-7A		
4CC#75	[2A]-[4A]-7A-7A		
4CC#76	2A-[4A]-7C		
4CC#77	[2A]-4A-7C		
4CC#78	[2A]-[4A]-7C		
4CC#79	2A-[4A]-12B		
4CC#80	[2A]-4A-12B		
4CC#81	[2A]-[4A]-12B		
4CC#82	2A-5B-[66A]		
4CC#83	[2A]-5B-66A		
4CC#84	[2A]-5B-[66A]		
4CC#85	2A-5A-[48C]		
4CC#86	[2A]-5A-48C		
4CC#87	2A-5A-[66A]-66A		
4CC#88	[2A]-5A-66A-66A		
4CC#89	2A-5A-[66A]-[66A]		
4CC#90	[2A]-5A-[66A]-66A		
4CC#91	2A-5A-[66B]		
4CC#92	[2A]-5A-66B		
4CC#93	2A-5A-[66C]		
4CC#94	[2A]-5A-66C		
4CC#95	[2A]-7A-7A-13A		
4CC#96	[2A]-7A-7A-29A	29A SCC only	
4CC#97	[2A]-7C-29A	29A SCC only	
4CC#98	2A-7A-7A-[66A]		
4CC#99	[2A]-7A-7A-66A		
4CC#100	[2A]-7A-7A-[66A]		
4CC#101	2A-7C-[66A]		
4CC#102	[2A]-7C-66A		
4CC#103	[2A]-7C-[66A]		
4CC#104	[2A]-7A-12B		
4CC#105	2A-7A-[66A]-66A		
4CC#106	[2A]-7A-66A-66A		
4CC#107	2A-7A-[66A]-[66A]		
4CC#108	[2A]-7A-[66A]-66A		
4CC#109	2A-12B-[66A]		
4CC#110	[2A]-12B-66A		
4CC#111	[2A]-12B-[66A]		
4CC#112	2A-12A-[66A]-66A		
4CC#113	[2A]-12A-66A-66A		
4CC#114	2A-12A-[66A]-[66A]		
4CC#115	[2A]-12A-[66A]-66A		
4CC#116	2A-12A-[66C]		
4CC#117	[2A]-12A-66C		
4CC#118	2A-13A-[48C]		
4CC#119	[2A]-13A-48C		
4CC#120	2A-13A-[66A]-66A		
4CC#121	[2A]-13A-66A-66A		
4CC#122	2A-13A-[66A]-[66A]		
4CC#123	[2A]-13A-[66A]-66A		
4CC#124	2A-13A-[66B]		
4CC#125	[2A]-13A-66B		
4CC#126	2A-13A-[66C]		
4CC#127	[2A]-13A-66C		
4CC#128	2A-14A-[66A]-66A		
4CC#129	[2A]-14A-66A-66A		
4CC#130	2A-14A-[66A]-[66A]		
4CC#131	[2A]-14A-[66A]-66A		
4CC#132	2A-48A-[48C]	48A, 48C SCC only	
4CC#133	2A-[48A]-48C	48A, 48C SCC only	
4CC#134	[2A]-48A-48C	48A, 48C SCC only	
4CC#135	[2A]-[48A]-48C	48A, 48C SCC only	
4CC#136	[2A]-48D	48D SCC only	

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#137	2A-48C-[66A]	48C SCC only	
4CC#138	2A-[48C]-66A	48C SCC only	
4CC#139	[2A]-48C-66A	48C SCC only	
4CC#140	[2A]-48C-[66A]	48C SCC only	
4CC#141	2A-66A-[66B]		
4CC#142	2A-[66A]-66B		
4CC#143	[2A]-66A-66B		
4CC#144	[2A]-[66A]-66B		
4CC#145	2A-[66A]-66A-71A		
4CC#146	[2A]-66A-66A-71A		
4CC#147	2A-[66A]-[66A]-71A		
4CC#148	[2A]-[66A]-66A-71A		
4CC#149	2A-[66C]-71A		
4CC#150	[2A]-66C-71A		
4CC#151	4A-[4A]-5B		
4CC#152	[4A]-[4A]-5B		
4CC#153	4A-[4A]-12B		
4CC#154	[4A]-[4A]-12B		
4CC#155	[4A]-48D		
4CC#156	5A-5A-[66A]-66A		
4CC#157	5A-5A-[66A]-[66A]		
4CC#158	5A-5A-[66B]		
4CC#159	5A-5A-[66C]		
4CC#160	5B-[66A]-66A		
4CC#161	5B-[66A]-[66A]		
4CC#162	5B-[66B]		
4CC#163	5B-[66C]		
4CC#164	5A-7A-[66A]-66A		
4CC#165	5A-7A-[66A]-[66A]		
4CC#166	5A-48C-[66A]	48C SCC only	
4CC#167	5A-[48C]-66A	48C SCC only	
4CC#168	5A-48A-[66A]-66A	48A SCC only	
4CC#169	5A-[48A]-66A-66A	48A SCC only	
4CC#170	5A-48A-[66A]-[66A]	48A SCC only	
4CC#171	5A-[48A]-[66A]-66A	48A SCC only	
4CC#172	7A-7A-29A-[66A]	29A SCC only	
4CC#173	7C-29A-[66A]	29A SCC only	
4CC#174	7A-7A-[66A]-66A		
4CC#175	7A-7A-[66A]-[66A]		
4CC#176	7C-[66A]-66A		
4CC#177	7C-[66A]-[66A]		
4CC#178	7A-12B-[66A]		
4CC#179	12B-[66A]-66A		
4CC#180	12B-[66A]-[66A]		
4CC#181	13A-48A-[48C]	48A, 48C SCC only	
4CC#182	13A-48C-[66A]	48A, 48C SCC only	
4CC#183	13A-[48C]-66A	48C SCC only	
4CC#184	13A-48A-[66B]	48A SCC only	
4CC#185	13A-[48A]-66B	48A SCC only	
4CC#186	13A-48A-[66C]	48A SCC only	
4CC#187	13A-[48A]-66C	48A SCC only	
4CC#188	13A-66A-[66B]		
4CC#189	13A-[66A]-66B		
4CC#190	[25A]-41D	41D SCC only	
4CC#191	[48A]-48D		
4CC#192	48C-[48C]		
4CC#193	66A-48A-[48C]	48C SCC only	
4CC#194	66A-[48A]-48C	48A, 48C SCC only	
4CC#195	[66A]-48A-48C	48A, 48C SCC only	
4CC#196	[66A]-[48A]-48C	48A, 48C SCC only	
4CC#197	[66A]-48D	48D SCC only	
4CC#198	66A-48A-48A-[66A]	48A SCC only	
4CC#199	66A-48A-[48A]-66A	48A SCC only	
4CC#200	66A-48A-[48A]-[66A]	48A SCC only	
4CC#201	[66A]-48A-48A-[66A]	48A SCC only	
4CC#202	66A-[48A]-[48A]-66A	48A SCC only	
4CC#203	66A-48C-[66A]	48C SCC only	
4CC#204	66A-[48C]-66A	48C SCC only	

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#205	[66A]-48C-[66A]	48C SCC only	
4CC#206	66B-48A-[48A]	48A SCC only	
4CC#207	[66B]-48A-48A	48A SCC only	
4CC#208	66B-[48A]-[48A]	48A SCC only	
4CC#209	66B-[48C]	48C SCC only	
4CC#210	[66B]-48C	48C SCC only	
4CC#211	66C-48A-[48A]	48A SCC only	
4CC#212	[66C]-48A-48A	48A SCC only	
4CC#213	66C-[48A]-[48A]	48A SCC only	
4CC#214	66C-[48C]	48C SCC only	
4CC#215	[66C]-48C	48C SCC only	

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
Band 2	QPSK	20	18700	1860.0	1/0	22.74	22.61	-0.13
Band 4	QPSK	20	20175	1732.5	1/49	21.86	21.75	-0.11
Band 25	QPSK	20	26365	1882.5	1/99	22.68	22.66	-0.02
Band 41	QPSK	20	39750	2506.0	1/99	22.73	22.65	-0.08
Band 48	QPSK	20	55773	3603.3	1/99	21.83	21.75	-0.08
Band 66	QPSK	20	132072	1720.0	1/49	22.72	22.76	0.04

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.

DL CA output power results

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
4A-48A	4A	48A			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56207	3646.7							21.86	22.02	-0.16
5A-25A	5A	25A			QPSK	10	20525	836.5	1/0	10	2525	881.5	20	8365	1962.5							23.42	23.56	-0.14
	25A	5A			QPSK	20	26365	1882.5	1/99	20	8365	1962.5	10	2525	881.5							22.68	22.79	-0.11
12A-25A	12A	25A			QPSK	10	23095	707.5	1/0	10	5095	737.5	20	8365	1962.5							23.12	23.31	-0.19
	25A	12A			QPSK	20	26365	1882.5	1/99	20	8365	1962.5	10	5095	737.5							22.68	22.91	-0.23
12A-48A	12A	48A			QPSK	10	23095	707.5	1/0	10	5095	737.5	20	56640	3690							23.12	23.23	-0.11
25A-25A	25A	25A			QPSK	20	26365	1882.5	1/99	20	8365	1962.5	20	8563	1982.3							22.68	22.84	-0.16
41A-41A	41A	41A			QPSK	20	39750	2506	1/99	20	39750	2506	20	41490	2680							22.73	22.88	-0.15
48A-48A	48A	48A			QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	56640	3690							21.83	21.93	-0.10
66A-29A	66A	29A			QPSK	20	132072	1720	1/0	20	66536	2120	10	9715	722.5							22.72	22.82	-0.10
2A-2A-29A	2A	2A	29A		QPSK	20	18700	1860	10	20	700	1940	20	1100	1980	10	9715	722.5				22.74	22.88	-0.14
2A-4A-13A	2A	4A	13A		QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	5230	751				22.74	22.95	-0.21
	4A	13A	2A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	5230	751	20	900	1960				21.86	21.96	-0.10
	13A	2A	4A		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	2175	2132.5				23.80	23.98	-0.18
2A-4A-29A	2A	4A	29A		QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	9715	722.5				22.74	22.86	-0.12
	4A	2A	29A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	9715	722.5				21.86	22.05	-0.19
2A-4A-71A	2A	4A	71A		QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	20	68761	634.5				22.74	22.95	-0.21
	4A	71A	2A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	68761	634.5	20	900	1960				21.86	21.97	-0.11
	71A	2A	4A		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	2175	2132.5				23.20	23.41	-0.21
2A-5A-48A	2A	5A	48A		QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	56207	3646.7				22.74	22.93	-0.19
	5A	2A	48A		QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	56207	3646.7				23.42	23.57	-0.15
2A-13A-48A	2A	13A	48A		QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	20	56640	3690				22.74	22.90	-0.16
	13A	2A	48A		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	56640	3690				23.80	23.98	-0.18
2A-29A-66A	2A	66A	29A		QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	10	9715	722.5				22.74	22.92	-0.18
	66A	2A	29A		QPSK	20	132072	1720	1/0	20	66536	2120	20	900	1960	10	9715	722.5				22.72	22.92	-0.20
2A-48A-48A	2A	48A	48A		QPSK	20	18700	1860	1/0	20	700	1940	20	56640	3690	20	55340	3560				22.74	22.88	-0.14
2A-48A-66A	2A	66A	48A		QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	55990	3625				22.74	22.97	-0.23
	66A	2A	48A		QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	55990	3625				22.72	22.88	-0.16
4A-4A-5A	4A	4A	5A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	2525	881.5				21.86	22.09	-0.23
	5A	4A	4A		QPSK	10	20525	836.5	1/0	10	2525	881.5	20	2175	2132.5	10	2350	2150				23.42	23.54	-0.12
4A-4A-7A	4A	4A	7A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	2850	2630				21.86	22.01	-0.15
	7A	4A	4A		QPSK	20	20850	2510	1/0	20	2850	2630	20	2175	2132.5	10	2350	2150				23.11	23.27	-0.16
4A-4A-12A	4A	4A	12A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	5095	737.5				21.86	22.02	-0.16
	12A	4A	4A		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	2175	2132.5	10	2350	2150				23.12	23.29	-0.17
4A-4A-13A	4A	4A	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	5230	751				21.86	22.01	-0.15
	13A	4A	4A		QPSK	10	23230	782	1/0	10	5230	751	20	2175	2132.5	10	2350	2150				23.80	23.91	-0.11
4A-4A-29A	4A	4A	29A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	9715	722.5				21.86	22.05	-0.19
4A-4A-71A	4A	4A	71A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	68761	634.5				21.86	21.98	-0.12
	71A	4A	4A		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	2175	2132.5	10	2350	2150				23.20	23.42	-0.22
4A-7A-7A	4A	7A	7A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	3100	2655	20	3350	2680				21.86	22.08	-0.22
	7A	7A	4A		QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	2175	2132.5				23.11	23.30	-0.19
4A-7C	4A	7C	7C		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	3100	2655	20	3298	2674.8				21.86	21.97	-0.11
	7C	7C	4A		QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	2175	2132.5				23.11	23.25	-0.14
4A-7A-12A	4A	7A	12A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	2850	2630	10	5095	737.5				21.86	21.98	-0.12
	7A	12A	4A		QPSK	20	20850	2510	1/0	20	2850	2630	10	5095	737.5	20	2175	2132.5				23.11	23.24	-0.13
	12A	4A	7A		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	2175	2132.5	20	2850	2630				23.12	23.22	-0.10
4A-48C	4A	48C	48C		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55990	3625	20	56188	3644.8				21.86	21.96	-0.10
5A-7A-7A	5A	7A	7A		QPSK	10	20525	836.5	1/0	10	2525	881.5	20	2850	2630	20	3350	2680				23.42	23.60	-0.18
	7A	7A	5A		QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	10	2525	881.5				23.11	23.22	-0.11
5A-48C	5A	48C	48C		QPSK	10	20525	836.5	1/0	10	2525	881.5	20	55990	3625	20	56188	3644.8				23.42	23.61	-0.19
7A-7A-13A	7A	7A	13A		QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	10	5230	751				23.11	23.34	-0.23
	13A	7A	7A		QPSK	10	23230	782	1/0	10	5230	751	20	2850	2630	20	3350	2680				23.80	23.92	-0.12
7A-12A-66A	7A	12A	66A		QPSK	20	20850	2510	1/0	20	2850	2630	10	5095	737.5	20	66786	2145				23.11	23.31	-0.20
	12A	66A	7A		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	66786	2145	20	2850	2630				23.12	23.28	-0.16
	66A	7A	12A		QPSK	20	132072	1720	1/49	20	66536	2120	20	2850	2630	10	5095	737.5				22.72	22.90	-0.18
7A-13A-66A	7A	13A	66A		QPSK	20	20850	2510	1/0	20	2850	2630	10	5230	751	20	66786	2145				23.11	23.22	-0.11
	13A	66A	7A		QPSK	10	23230	782	1/0	10	5230	751	20	66786	2145	20	2850	2630				23.80	23.98	-0.18
	66A	7A	13A		QPSK	20	132072	1720	1/49	20	66536	2120	20	2850	2630	10	5230	751				22.72	22.90	-0.18
12A-48C	12A	48C	48C		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	55990	3625	20	56188	3644.8				23.12	23.26	-0.14
12A-66A-66A	12A	66A	66A		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	66786	2145	20	67036	2170				23.12	23.28	-0.16
	66A	66A	12A		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	5095	737.5				22.72	22.84	-0.12
12A-66C	12A	66C	66C		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	66786	2145	20	66984	2164.8				23.12	23.34	-0.22
	66C	66C	12A		QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	10	5095	737.5				22.72	22.86	-0.14
13A-48A-48A	13A	48A	48A		QPSK	10	23230	782	1/0	10	5230	751	20	56640	3690	20	55340	3560				23.80	24.00	-0.20
13A-48A-66A	13A	48A	66A		QPSK	10	23230	782	1/0	10	5230	751	20	55990	3625	20	66786	2145				23.80	23.94	-0.14
	66A	48A	13A		QPSK	20	132072	1720	1/49	20	66536	2120	20	55990	3625	10	5230	751				22.72	22.86	-0.14
13A-66A-66A	13A	66A	66A		QPSK	10	23230	782	1/0	10	5230	751	20	66536	2120	20	67036	2170				23.80	23.96	-0.16
	66A	66A	13A		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	5230	751				22.72	22.85	-0.13
14A-66A-66A	14A	66A	66A		QPSK	10	23330	793	1/0	10	5330	763	20	66536	2120	20	67036	2170				23.63	23.81	-0.18
	66A	66A	14A		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	5330	763				22.72	22.85	-0.13
41A-41C	41A	41C	41C		QPSK	20	39750	2506	1/99	20	39750	2506	20	40620	2593	20	40818	2612.8				22.73	22.89	-0.16
	41C	41C	41A		QPSK	20	39750	2506	1/99	20	39750	2506	20	39948	2525.8	20	40620	2593				22.73	22.91	-0.18

DL CA output power results (Continued)

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
41D-41D-41D	41D	41D	41D		QPSK	20	39750	2506	1/99	20	39750	2506	20	39948	2525.8	20	40146	2545.6				22.73	22.83	-0.10
48A-48C	48A	48C	48C		QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	56640	3690	20	56442	3670.2				21.83	22.04	-0.21
	48C	48C	48A		QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56640	3690				21.83	22.03	-0.20
66A-29A-66A	66A	29A	66A		QPSK	20	132072	1720	1/49	20	66536	2120	10	9715	722.5	20	67036	2170				22.72	22.82	-0.10
66A-66B	66A	66B	66B		QPSK	20	132072	1720	1/49	20	66536	2120	15	67061	2172.5	5	66968	2163.2				22.72	22.83	-0.11
	66B	66B	66A		QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	67036	2170				22.73	22.88	-0.15
66A-66C	66A	66C	66C		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	66838	2150.2				22.72	22.83	-0.11
	66C	66C	66A		QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	67036	2170				22.72	22.82	-0.10
66A-66A-71A	66A	66A	71A		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	68761	634.5				22.72	22.94	-0.22
	71A	66A	66A		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	66786	2145	20	67036	2170				23.20	23.33	-0.13
66C-71A	66C	66C	71A		QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	68761	634.5				22.72	22.91	-0.19
	71A	66C	66C		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	67036	2170	20	66838	2150.2				23.20	23.31	-0.11
71A-48A-48A	71A	48A	48A		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	56207	3646.7	20	55340	3560				23.20	23.35	-0.15
71A-48C	71A	48C	48C		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	56640	3690	20	56442	3670.2				23.20	23.40	-0.20
2A-2A-4A-4A	2A	2A	4A	4A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	2350	2150	22.74	22.86	-0.12
	4A	4A	2A	2A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	700	1940	20	1100	1980	21.86	22.00	-0.14
2A-2A-4A-5A	2A	2A	4A	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	22.74	22.86	-0.12
	4A	2A	2A	5A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	700	1940	20	1100	1980	10	2525	881.5	21.86	22.07	-0.21
	5A	2A	2A	4A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	700	1940	20	1100	1980	20	2175	2132.5	23.42	23.63	-0.21
2A-2A-4A-12A	2A	2A	4A	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	22.74	22.88	-0.14
	4A	2A	2A	12A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	700	1940	20	1100	1980	10	5095	737.5	21.86	22.03	-0.17
	12A	2A	2A	4A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	700	1940	20	1100	1980	20	2175	2132.5	23.12	23.25	-0.13
2A-2A-4A-71A	2A	2A	4A	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	22.74	22.91	-0.17
	4A	2A	2A	71A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	700	1940	20	1100	1980	20	68761	634.5	21.86	22.01	-0.15
	71A	2A	2A	4A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	700	1940	20	1100	1980	20	2175	2132.5	23.20	23.40	-0.20
2A-2A-5B	2A	2A	5B	5B	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	10	2525	881.5	5	2597	888.7	22.74	22.84	-0.10
	5B	5B	2A	2A	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	700	1940	20	1100	1980	23.42	23.63	-0.21
2A-2A-5A-66A	2A	2A	5A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	10	2525	881.5	20	66786	2145	22.74	22.87	-0.13
	5A	66A	2A	2A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	66786	2145	20	700	1940	20	1100	1980	23.42	23.64	-0.22
	66A	2A	2A	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980	10	2525	881.5	22.72	22.91	-0.19
2A-2A-7C	2A	2A	7C	7C	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	3100	2655	20	3298	2674.8	22.74	22.95	-0.21
	7C	7C	2A	2A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	700	1940	20	1100	1980	23.11	23.29	-0.18
2A-2A-7A-12A	2A	2A	7A	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	3100	2655	10	5095	737.5	22.74	22.85	-0.11
	7A	2A	2A	12A	QPSK	20	20850	2510	1/0	20	2850	2630	20	700	1940	20	1100	1980	10	5095	737.5	23.11	23.30	-0.19
	12A	7A	2A	2A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	3100	2655	20	700	1940	20	1100	1980	23.12	23.28	-0.16
2A-2A-7A-66A	2A	2A	7A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	3100	2655	20	66786	2145	22.74	22.84	-0.10
	7A	2A	2A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	700	1940	20	1100	1980	20	66786	2145	23.11	23.29	-0.18
	66A	7A	2A	2A	QPSK	20	132072	1720	1/49	20	66536	2120	20	3100	2655	20	700	1940	20	1100	1980	22.72	22.89	-0.17
2A-2A-12B	2A	2A	12B	12B	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	5	5095	737.5	5	5143	742.3	22.74	22.85	-0.11
	12B	12B	2A	2A	QPSK	5	23095	707.5	1/0	5	5143	742.3	5	5143	742.3	20	700	1940	20	1100	1980	23.12	23.34	-0.22
2A-2A-12A-66A	2A	2A	12A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	10	5095	737.5	20	66786	2145	22.74	22.96	-0.22
	12A	2A	2A	66A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	700	1940	20	1100	1980	20	66786	2145	23.12	23.26	-0.14
	66A	12A	2A	2A	QPSK	20	132072	1720	1/49	20	66536	2120	10	5095	737.5	20	700	1940	20	1100	1980	22.72	22.82	-0.10
2A-2A-13A-66A	2A	2A	13A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	10	5230	751	20	66786	2145	22.74	22.89	-0.15
	13A	2A	2A	66A	QPSK	10	23230	782	1/0	10	5230	751	20	700	1940	20	1100	1980	20	66786	2145	23.80	23.99	-0.19
	66A	13A	2A	2A	QPSK	20	132072	1720	1/49	20	66536	2120	10	5230	751	20	700	1940	20	1100	1980	22.72	22.93	-0.21
2A-2A-14A-66A	2A	2A	14A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	10	5330	763	20	66786	2145	22.74	22.91	-0.17
	14A	2A	2A	66A	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	20	66786	2145	23.63	23.79	-0.16
	66A	14A	2A	2A	QPSK	20	132072	1720	1/49	20	66536	2120	10	5330	763	20	700	1940	20	1100	1980	22.72	22.89	-0.17
2A-2A-66A-66A	2A	2A	66A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66536	2120	20	67036	2170	22.74	22.88	-0.14
	66A	66A	2A	2A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	22.72	22.81	-0.09
2A-2A-66B	2A	2A	66B	66B	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	15	66786	2145	5	66879	2154.3	22.74	22.96	-0.22
	66B	66B	2A	2A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	700	1940	20	1100	1980	22.73	22.84	-0.11
2A-2A-66C	2A	2A	66C	66C	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	20	66984	2164.8	22.74	22.91	-0.17
	66C	66C	2A	2A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	700	1940	20	1100	1980	22.72	22.83	-0.11
2C-66A-66A	2C	2C	66A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	898	1959.8	20	66536	2120	20	67036	2170	22.74	22.90	-0.16
	66A	66A	2C	2C	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	1098	1979.8	22.72	22.87	-0.15
2A-2A-66A-71A	2A	2A	66A	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	22.74	22.92	-0.18
	66A	2A	2A	71A	QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980	20	68761	634.5	22.72	22.85	-0.13
	71A	2A	2A	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	1100	1980	20	700	1940	20	66786	2145	23.20	23.43	-0.23
2A-4A-4A-5A	2A	4A	4A	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	2000	2115	10	2525	881.5	22.74	22.89	-0.15
	4A	4A	5A	2A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	10	2525	881.5	20	900	1960	21.86	22.03	-0.17
	5A	2A	4A	4A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	2175	2132.5	10	2000	2115	23.42	23.55	-0.13
2A-4A-4A-12A	2A	4A	4A	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	2000	2115	10	5095	737.5	22.74	22.94	-0.20
	4A	4A	12A	2A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	10	5095	737.5	20	700	1940	21.86	21.99	-0.13
	12A	2A	4A	4A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	700	1940	20	1100	1980	20	700	1940	23.12	23.33	-0.21
2A-4A-5B	2A	4A	5B	5B	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	2525	881.5	5	2597	888.7	22.74	22.97	-0.23
	4A	2A	5B	5B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	2525	881.5	5	2597	888.7	21.86	22.08	-0.22
	5B	5B	2A	4A	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	900	1960	20	2175	2132.5	23.42	23.63	-0.21
2A-4A-7A-7A	2A	4A	7A	7A	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	20	2850	2630	20	3350	2680	22.74	22.87	-0.13
	4A	2A	7A	7A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	2850	2630	20	3350	2680	21.86	22.04	-0.18
	7A	7A	2A	4A	QPSK	20	2850	2630	1/0	20	2850	2630	20	3350	2680	20	900	1960	20	2175	2132.5	23.11	23.31	-0.20

DL CA output power results (Continued)

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
2A-4A-7C	2A	4A	7C	7C	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	20	3100	2655	20	3298	2674.8	22.74	22.85	-0.11
	4A	2A	7C	7C	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	3100	2655	20	3298	2674.8	21.86	22.00	-0.14
	7C	7C	2A	4A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	900	1960	20	2175	2132.5	23.11	23.31	-0.20
2A-4A-12B	2A	4A	12B	12B	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	5	5095	737.5	5	5143	742.3	22.74	22.84	-0.10
	4A	2A	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	5	5095	737.5	5	5143	742.3	21.86	21.97	-0.11
	12B	12B	2A	4A	QPSK	5	23095	707.5	1/0	5	5143	742.3	5	5143	742.3	20	900	1960	20	2175	2132.5	23.12	23.27	-0.15
2A-5B-66A	2A	5B	5B	66A	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	5	2597	888.7	20	66786	2145	22.74	22.85	-0.11
	5B	5B	66A	2A	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	66786	2145	20	900	1960	23.42	23.52	-0.10
	66A	2A	5B	5B	QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	10	2525	881.5	5	2597	888.7	22.72	22.85	-0.13
2A-5A-7A-7A	2A	5A	7A	7A	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	2850	2510	20	3350	2680	22.74	22.87	-0.13
	5A	2A	7A	7A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	2850	2510	20	3350	2680	23.42	23.63	-0.21
	7A	7A	2A	5A	QPSK	20	20850	2510	1/0	20	20850	2510	20	3350	2680	20	900	1960	10	2525	881.5	23.11	23.23	-0.12
2A-5A-48C	2A	5A	48C	48C	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	55740	3600	20	55938	3619.8	22.74	22.82	-0.08
	5A	2A	48C	48C	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	55740	3600	20	55938	3619.8	23.42	23.57	-0.15
2A-5A-66A-66A	2A	5A	66A	66A	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	66536	2120	20	67036	2170	22.74	22.85	-0.11
	5A	2A	66A	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	66536	2120	20	67036	2170	23.42	23.61	-0.19
	66A	66A	2A	5A	QPSK	20	132572	1770	1/0	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	22.72	22.87	-0.15
2A-5A-66B	2A	5A	66B	66B	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	15	66786	2145	5	66879	2154.3	22.74	22.93	-0.19
	5A	2A	66B	66B	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	15	66786	2145	5	66879	2154.3	23.42	23.55	-0.13
	66B	66B	2A	5A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	900	1960	10	2525	881.5	22.73	22.90	-0.17
2A-5A-66C	2A	5A	66C	66C	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	66786	2145	20	66984	2164.8	22.74	22.97	-0.23
	5A	2A	66C	66C	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	66786	2145	20	66984	2164.8	23.42	23.65	-0.23
	66C	66C	2A	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	15	2525	881.5	22.72	22.89	-0.17
2A-7A-7A-13A	2A	7A	7A	13A	QPSK	20	18700	1860	1/0	20	700	1940	20	2850	2630	20	3350	2680	10	5230	751	22.74	22.84	-0.10
	7A	7A	2A	13A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	900	1960	10	5230	751	23.11	23.26	-0.15
	13A	2A	7A	7A	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	2850	2630	20	3350	2680	23.80	23.99	-0.19
2A-7B-13A	2A	7B	7B	13A	QPSK	20	18700	1860	1/0	20	700	1940	15	3100	2655	5	3193	2664.3	10	5230	751	22.74	22.84	-0.10
	7B	7B	13A	2A	QPSK	15	21375	2562.5	1/0	15	2825	2627.5	5	3282	2673.2	20	900	1960	10	5230	751	22.56	22.76	-0.20
	13A	2A	7B	7B	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	15	3100	2655	5	3193	2664.3	23.80	23.98	-0.18
2A-7C-13A	2A	7C	7C	13A	QPSK	20	18700	1860	1/0	20	700	1940	20	3100	2655	20	3298	2674.8	10	5230	751	22.74	22.88	-0.14
	7C	7C	2A	13A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	900	1960	10	5230	751	23.11	23.21	-0.10
	13A	2A	7C	7C	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	3100	2655	20	3298	2674.8	23.80	23.96	-0.16
2A-7A-7A-29A	2A	7A	7A	29A	QPSK	20	18700	1860	1/0	20	700	1940	20	2850	2630	20	3350	2680	10	9715	722.5	22.74	22.92	-0.18
	7A	7A	29A	2A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	10	9715	722.5	20	900	1960	23.11	23.24	-0.13
2A-7C-29A	2A	7C	7C	29A	QPSK	20	18700	1860	1/0	20	700	1940	20	3100	2655	20	3298	2674.8	10	3350	2680	22.74	22.85	-0.11
	7C	7C	29A	2A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	10	9715	722.5	20	900	1960	23.11	23.34	-0.23
2A-7A-7A-66A	2A	7A	7A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	2850	2630	20	3350	2680	20	66786	2145	22.74	22.96	-0.22
	7A	7A	66A	2A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	66786	2145	20	900	1960	23.11	23.32	-0.21
	66A	7A	7A	2A	QPSK	20	13272	1720	1/49	20	66536	2120	20	2850	2630	20	3350	2680	20	900	1960	22.72	22.93	-0.21
2A-7C-66A	2A	7C	7C	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	3100	2655	20	3298	2674.8	20	66786	2145	22.74	22.93	-0.19
	7C	7C	66A	2A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	66786	2145	20	900	1960	23.11	23.25	-0.14
	66A	7C	7C	2A	QPSK	20	13272	1720	1/49	20	66536	2120	20	3100	2655	20	3298	2674.8	20	900	1960	22.72	22.89	-0.17
2A-7A-12B	2A	7A	12B	12B	QPSK	20	18700	1860	1/0	20	700	1940	20	2850	2630	5	5095	737.5	5	5143	742.3	22.74	22.93	-0.19
	7A	2A	12B	12B	QPSK	20	20850	2510	1/0	20	2850	2630	20	900	1960	5	5095	737.5	5	5143	742.3	23.11	23.27	-0.16
	12B	12B	2A	7A	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	900	1960	20	3100	2655	23.12	23.22	-0.10
2A-7A-66A-66A	2A	7A	66A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	2850	2630	20	66536	2120	20	67036	2170	22.74	22.90	-0.16
	7A	2A	66A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	900	1960	20	66536	2120	20	67036	2170	23.11	23.24	-0.13
	66A	66A	2A	7A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	3100	2655	22.72	22.94	-0.22
2A-12B-66A	2A	12B	12B	66A	QPSK	20	18700	1860	1/0	20	700	1940	5	5095	737.5	5	5143	742.3	20	66786	2145	22.74	22.92	-0.18
	12B	12B	66A	2A	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	66786	2145	20	900	1960	23.12	23.25	-0.13
	66A	12B	12B	2A	QPSK	20	132072	1720	1/49	20	66536	2120	5	5095	737.5	5	5143	742.3	20	900	1960	22.72	22.92	-0.20
2A-12A-66A-66A	2A	12A	66A	66A	QPSK	20	18700	1860	1/0	20	700	1940	10	5095	737.5	20	66536	2120	20	67036	2170	22.74	22.89	-0.15
	12A	2A	66A	66A	QPSK	10	23095	707.5	1/0	20	5095	737.5	20	900	1960	20	66536	2120	20	67036	2170	23.12	23.27	-0.15
	66A	66A	2A	12A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	22.72	22.89	-0.17
2A-12A-66C	2A	12A	66C	66C	QPSK	20	18700	1860	1/0	20	700	1940	10	5095	737.5	20	66786	2145	20	66984	2164.8	22.74	22.85	-0.11
	12A	2A	66C	66C	QPSK	10	23095	707.5	1/0	20	5095	737.5	20	900	1960	20	66786	2145	20	66984	2164.8	23.12	23.26	-0.14
	66C	66C	2A	12A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	10	5095	737.5	22.72	22.95	-0.23
2A-13A-48C	2A	13A	48C	48C	QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	20	55740	3600	15	55911	3617.1	22.74	22.90	-0.16
	13A	2A	48C	48C	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	55740	3600	15	55911	3617.1	23.80	24.03	-0.23
2A-13A-66A-66A	2A	13A	66A	66A	QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	20	66536	2120	20	67036	2170	22.74	22.97	-0.23
	13A	2A	66A	66A	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	66536	2120	20	67036	2170	23.80	24.00	-0.20
	66A	66A	2A	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5230	751	22.72	22.91	-0.19
2A-13A-66B	2A	13A	66B	66B	QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	15	66786	2145	5	66879	2154.3	22.74	22.93	-0.19
	13A	2A	66B	66B	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	15	66786	2145	5	66879	2154.3	23.80	23.93	-0.13
	66B	66B	13A	2A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	900	1960	10	5230	751	22.73	22.86	-0.13
2A-13A-66C	2A	13A	66C	66C	QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	20	66786	2145	20	66984	2164.8	22.74	22.90	-0.16
	13A	2A	66C	66C	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	66786	2145	20	66984	2164.8	23.80	23.92	-0.12
	66C	66C	2A	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	10	5230	751	22.72	22.87	-0.15
2A-14A-66A-66A	2A	14A	66A	66A	QPSK	20	18700	1860	1/0	20	700	1940	10	5330	763	20	66536	2120	20	67036	2170	22.74	22.88	-0.14
	14A	2A	66A	66A	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	20	66536	2120	20	67036	2170	23.63	23.82	-0.19
	66A	66A	2A	14A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	22.72	22.87	-0.15
2A-48A-48C	2A	48A	48C	48C	QPSK	20	18700	1860	1/0	20	700	1940	20	55340	3560	20	56640	3690	20	56442	3670.2	22.74	22.87	-0.13

DL CA output power results (Continued)

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
2A-48D	2A	48D	48D	48D	QPSK	20	18700	1860	1/0	20	700	1940	20	56207	3646.7	20	56009	3626.9	20	56405	3666.5	22.74	22.97	-0.23
2A-48C-66A	2A	66A	48C	48C	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	5620	3646.7	20	56405	3666.5	22.74	22.84	-0.10
	66A	2A	48C	48C	QPSK	20	132072	1720	1/0	20	66536	2120	20	900	1960	20	5620	3646.7	20	56405	3666.5	22.72	22.83	-0.11
2A-66A-66B	2A	66A	66B	66B	QPSK	20	18700	1860	1/0	20	700	1940	20	66536	2120	15	67061	2172.5	5	66968	2163.2	22.74	22.97	-0.23
	66A	66B	66B	2A	QPSK	20	132072	1720	1/0	20	66536	2120	15	67061	2172.5	5	66968	2163.2	20	900	1960	22.72	22.84	-0.12
	66B	66B	66A	2A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	67036	2170	20	900	1960	22.73	22.95	-0.22
2A-66A-66A-71A	2A	66A	66A	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	67036	2170	20	66536	2120	20	68761	634.5	22.74	22.96	-0.22
	66A	66A	71A	2A	QPSK	20	132072	1720	1/0	20	66536	2120	20	67036	2170	20	68761	634.5	20	900	1960	22.72	22.91	-0.19
	71A	66A	66A	2A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	66536	2120	20	67036	2170	20	900	1960	23.20	23.31	-0.11
2A-66C-71A	2A	66C	66C	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	66984	2164.8	20	68761	634.5	22.74	22.88	-0.14
	66C	66C	2C	71A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	20	68761	634.5	22.72	22.84	-0.12
	71A	2A	66C	66C	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	66984	2164.8	23.20	23.33	-0.13
4A-4A-5B	4A	4A	5B	5B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	2525	881.5	5	2597	888.7	21.86	21.96	-0.10
	5B	5B	4A	4A	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	2175	2132.5	10	2000	2115	23.42	23.52	-0.10
4A-4A-12B	4A	4A	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	5	5095	737.5	5	5143	742.3	21.86	22.04	-0.18
	12B	12B	4A	4A	QPSK	5	23095	707.5	1/0	5	5095	737.5	5	5143	742.3	20	2175	2132.5	10	2350	2150	23.12	23.23	-0.11
4A-48D	4A	48D	48D	48D	QPSK	20	20175	1732.5	1/49	20	2175	2135.5	20	26207	3646.7	20	56405	3666.5	20	56009	3626.9	21.86	22.05	-0.19
5A-5A-66A-66A	5A	5A	66A	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2425	874	20	66536	2120	20	67036	2170	23.42	23.65	-0.23
	66A	66A	5A	5A	QPSK	20	132072	1720	1/0	20	66536	2120	20	67036	2170	10	2525	881.5	5	2425	874	22.72	22.84	-0.12
5A-5A-66B	5A	5A	66B	66B	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2425	874	15	66786	2145	5	66879	2154.3	23.42	23.62	-0.20
	66B	66B	5A	5A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	10	2525	881.5	5	2425	874	22.73	22.89	-0.16
5A-5A-66C	5A	5A	66C	66C	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2425	874	20	66786	2145	20	66984	2164.8	23.42	23.60	-0.18
	66C	66C	5A	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	10	2525	881.5	5	2425	874	22.72	22.83	-0.11
5B-66A-66A	5B	5B	66A	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	66536	2120	20	67036	2170	23.42	23.60	-0.18
	66A	66A	5B	5B	QPSK	20	132072	1720	1/0	20	66536	2120	20	67036	2170	10	2525	881.5	5	2597	888.7	22.72	22.90	-0.18
5B-66B	5B	5B	66B	66B	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	15	66786	2145	5	66879	2154.3	23.42	23.56	-0.14
	66B	66B	5B	5B	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	10	2525	881.5	5	2597	888.7	22.73	22.89	-0.16
5B-66C	5B	5B	66C	66C	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	66536	2120	20	67036	2170	23.42	23.54	-0.12
	66C	66C	5B	5B	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	10	2525	881.5	5	2597	888.7	22.72	22.94	-0.22
5A-7C-66A	5A	7C	7C	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	3100	2655	20	3298	2674.8	20	66786	2145	23.42	23.56	-0.14
	7C	7C	5A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	10	2525	881.5	20	66786	2145	23.11	23.31	-0.20
	66A	5A	7C	7C	QPSK	20	132072	1720	1/49	20	66536	2120	10	2525	881.5	20	3100	2655	20	3298	2674.8	22.72	22.86	-0.14
5A-7A-66A-66A	5A	7A	66A	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	3100	2655	20	66536	2120	20	67036	2170	23.42	23.56	-0.14
	7A	5A	66A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	10	2525	881.5	20	66536	2120	20	67036	2170	23.11	23.27	-0.16
	66A	66A	5A	7A	QPSK	20	132072	2510	1/0	20	66536	2120	20	67036	2170	10	2525	881.5	20	2850	2630	22.72	22.85	-0.13
5A-48D	5A	48D	48D	48D	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	56207	3646.7	20	56405	3666.5	20	56009	3626.9	23.42	23.60	-0.18
5A-48C-66A	5A	48C	48C	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	56405	3666.5	20	56009	3626.9	20	66786	2145	23.42	23.55	-0.13
	66A	5A	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	10	2525	881.5	20	56207	3646.7	20	56405	3666.5	22.72	22.88	-0.16
5A-48A-66A-66A	5A	66A	66A	48A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	66536	2120	20	67036	2170	20	56207	3646.7	23.42	23.60	-0.18
	66A	66A	5A	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	2525	881.5	20	56207	3646.7	22.72	22.82	-0.10
7C-13A-66A	7C	7C	13A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	10	5230	751	20	66786	2145	23.11	23.32	-0.21
	13A	66A	7C	7C	QPSK	10	23230	782	1/0	10	5230	751	20	66786	2145	20	3100	2655	20	3298	2674.8	23.80	24.00	-0.20
	66A	13A	7C	7C	QPSK	20	132072	1720	1/49	20	66536	2120	10	5230	751	20	3100	2655	20	3298	2674.8	22.72	22.82	-0.10
7C-25A-25A	7C	7C	25A	25A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	8140	1940	20	8590	1985	23.11	23.22	-0.11
	25A	25A	7C	7C	QPSK	20	26365	1882.5	1/99	20	8365	1962.5	20	8563	1982.3	20	3100	2655	20	3298	2674.8	22.68	22.83	-0.15
7C-25A-66A	7C	7C	25A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	8365	1962.5	20	66786	2145	23.11	23.22	-0.11
	25A	66A	7C	7C	QPSK	20	26365	1882.5	1/99	20	8365	1962.5	20	66786	2145	20	3100	2655	20	3298	2674.8	22.68	22.78	-0.10
	66A	25A	7C	7C	QPSK	20	132072	1720	1/49	20	66536	2120	20	8365	1962.5	20	3100	2655	20	3298	2674.8	22.72	22.86	-0.14
7A-7A-29A-66A	7A	7A	29A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	10	9715	722.5	20	66786	2145	23.11	23.27	-0.16
	66A	7A	7A	29A	QPSK	20	132072	1720	1/49	20	66356	2120	20	2850	2630	20	3350	2680	10	9715	722.5	22.72	22.85	-0.13
7C-29A-66A	7C	7C	29A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	10	9715	722.5	20	66786	2145	23.11	23.29	-0.18
	66A	29A	7C	7C	QPSK	20	132072	1720	1/49	20	66536	2120	10	9715	722.5	20	3100	2655	20	3298	2674.8	22.72	22.85	-0.13
7A-7A-66A-66A	7A	7A	66A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	66536	2120	20	67036	2170	23.11	23.27	-0.16
	66A	66A	7A	7A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	2850	2630	20	3350	2680	22.72	22.90	-0.18
7C-66A-66A	7C	7C	66A	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	66536	2120	20	67036	2170	23.11	23.21	-0.10
	66A	66A	7C	7C	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	3100	2655	20	3298	2674.8	22.72	22.93	-0.21
7A-12B-66A	7A	12B	12B	66A	QPSK	20	20850	2510	1/0	20	2850	2630	5	5095	737.5	5	5143	742.3	20	66786	2145	23.11	23.31	-0.20
	12B	12B	66A	7A	QPSK	5	23095	707.5	1/0	5	5095	737.5	5	5143	742.3	20	66786	2145	20	3100	2655	23.12	23.22	-0.10
	66A	12B	12B	7A	QPSK	20	132072	1720	1/49	20	66536	2120	5	5095	737.5	5	5143	742.3	20	3100	2655	22.72	22.83	-0.11
12B-66A-66A	12B	12B	66A	66A	QPSK	5	23095	707.5	1/0	5	5095	737.5	5	5143	742.3	20	66536	2120	20	67036	2170	23.12	23.27	-0.15
	66A	66A	12B	12B	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	5	5095	737.5	5	5143	742.3	22.72	22.83	-0.11
13A-48A-48C	13A	48A	48C	48C	QPSK	10	23230	782	1/0	10	5230	751	20	55340	3560	20	56640	3690	20	56442	3670.2	23.80	23.90	-0.10
13A-48D	13A	48D	48D	48D	QPSK	10	23230	782	1/0	10	5230	751	20	56207	3646.7	20	56405	3666.5	20	56009	3626.9	23.80	24.02	-0.22
13A-48C-66A	13A	66A	48C	48C	QPSK	10	23230	782	1/0	10	5230	751	20	66786	2145	20	56405	3666.5	20	56009	3626.9	23.80	23.93	-0.13
	66A	13A	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	10	5230	751	20	56405	3666.5	20	56009	3626.9	22.72	22.91	-0.19
13A-48A-66B	13A	48A	66B	66B	QPSK	10	23230	782	1/0	10	5230	751	20	56207	3646.7	15	66786	2145	5	66879	2154.3	23.80	23.91	-0.11
	66B	66B	13A	48A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66629	2129.3	10	5230	751	20	56640	3690	22.73	22.88	-0.15
13A-48A-66C	13A	48A	66C	66C	QPSK	10	23230	782	1/0	10	5230	751	20	56207	3646.7	20	66786	2145	20	66984	2164.8	23.80	24.00	-0.20
	66C	66C	48A	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	10	5230	751	20	56640	3690	22.72	22.84	-0.12
13A-66A-66B	13A	66A	66B	66B	QPSK	10	23230	782	1/0	10	5230	751	20	66536	2120	15	66786	2145	5	66879	2154.3	23.80	23.94	-0.14
	66A	66B	66B	13A	QPSK	20	132072	1720	1/49	20	66536	2120	15	66786	2145	5	66879	2154.3	10	5230	751	22.72	22.84	-0.12
	66B	66B	66A	13A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	67036	2170	10	5230	751	22.73	22.94	-0.21

DL CA output power results (Continued)

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
25A-41D	25A	41D	41D	41D	QPSK	20	26365	1882.5	1/99	20	8365	1962.5	20	40620	2593	20	40818	2612.8	20	40422	2573.2	22.68	22.89	-0.21
48A-48D	48A	48D	48D	48D	QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	56640	3690	20	56442	3670.2	20	56244	3650.4	21.83	21.97	-0.14
	48D	48D	48D	48A	QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56169	3642.9	20	56640	3690	21.83	22.00	-0.17
48C-48C	48C	48C	48C	48C	QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56640	3690	20	56442	3670.2	21.83	21.96	-0.13
48E	48E	48E	48E	48E	QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56169	3642.9	20	56367	3662.7	21.83	22.00	-0.17
66A-48A-48C	66A	48A	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	20	55340	3560	20	56640	3690	20	56442	3670.2	22.72	22.87	-0.15
66A-48D	66A	48D	48D	48D	QPSK	20	132072	1720	1/49	20	66536	2120	20	55773	3603.3	20	55971	3623.1	20	55575	3583.5	22.72	22.92	-0.20
66A-48A-48A-66A	66A	48A	48A	66A	QPSK	20	132072	1720	1/49	20	66536	2120	20	55340	3560	20	56640	3690	20	67036	2170	22.72	22.82	-0.10
66A-48C-66A	66A	48C	48C	66A	QPSK	20	132072	1720	1/49	20	66536	2120	20	56640	3690	20	56442	3670.2	20	67036	2170	22.72	22.93	-0.21
66B-48A-66A	66B	66B	48A	66A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66629	2129.3	20	55340	3560	20	67036	2170	22.73	22.86	-0.13
66B-48C	66B	66B	48C	48C	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66629	2129.3	20	56405	3666.5	20	56009	3626.9	22.73	22.95	-0.22
66C-48A-48A	66C	66C	48A	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	55340	3560	20	56640	3690	22.72	22.91	-0.19
66C-48C	66C	66C	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	56405	3666.5	20	56009	3626.9	22.72	22.93	-0.21

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.

DL CA with 4x4 MIMO output power results

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
4A-[48A] [4A]-48A **[4A]-[48A]**	[4A]	[48A]			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55990	3625							21.86	22.04	-0.18
5A-[25A]	5A	[25A]			QPSK	10	20525	836.5	1/0	10	2525	881.5	20	8365	1962.5							23.42	23.61	-0.19
	[25A]	5A			QPSK	20	26365	1882.5	1/99	20	8365	1962.5	10	2525	881.5							22.68	22.87	-0.19
12A-[48A]	12A	[48A]			QPSK	10	23095	707.5	1/0	10	5095	737.5	20	55990	3625							23.12	23.28	-0.16
25A-[25A] **[25A]-[25A]**	[25A]	[25A]			QPSK	20	26365	1882.5	1/99	20	8365	1962.5	20	8140	1940							22.68	22.85	-0.17
41A-[41A] **[41A]-[41A]**	[41A]	[41A]			QPSK	20	39750	2506	1/99	20	39750	2506	20	41490	2680							22.73	22.90	-0.17
48A-[48A] **[48A]-[48A]**	[48A]	[48A]			QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	56640	3690							21.83	22.05	-0.22
[2A]-[2A]-[4A]	[2A]	[2A]	[4A]		QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5				22.74	22.95	-0.21
	[4A]	[2A]	[2A]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	700	1940	20	1100	1980				21.86	21.96	-0.10
2A-[2A]-29A **[2A]-[2A]-29A**	[2A]	[2A]	29A		QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	10	9715	722.5				22.74	22.92	-0.18
[2A]-[2A]-[66A]	[2A]	[2A]	[66A]		QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145				22.74	22.86	-0.12
	[66A]	[2A]	[2A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980				22.72	22.94	-0.22
[2C]-[66A]	[2C]	[2C]	[66A]		QPSK	20	18700	1860	1/0	20	700	1940	20	898	1959.8	20	66786	2145				22.74	22.87	-0.13
	[66A]	[2C]	[2C]		QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	1098	1979.8				22.72	22.82	-0.10
[2A]-[4A]-[4A]	[2A]	[4A]	[4A]		QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	2000	2115				22.74	22.90	-0.16
	[4A]	[4A]	[2A]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	900	1960				21.86	22.00	-0.14
2A-[4A]-13A	[2A]	[4A]	13A		QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	5230	751				22.74	22.91	-0.17
2A-[4A]-13A	[4A]	[2A]	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751				21.86	22.08	-0.22
[2A]-[4A]-13A	13A	[2A]	[4A]		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	2175	2132.5				23.80	23.95	-0.15
2A-[4A]-29A [2A]-4A-29A **[2A]-[4A]-29A**	[2A]	[4A]	29A		QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	9715	722.5				22.74	22.96	-0.22
	[4A]	[2A]	29A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	9715	722.5				21.86	22.02	-0.16
[2A]-5A-7A	[2A]	5A	7A		QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	3100	2655				22.74	22.88	-0.14
	5A	[2A]	7A		QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	3100	2655				23.42	23.64	-0.22
	7A	[2A]	5A		QPSK	20	20850	2510	1/0	20	2850	2630	20	900	1960	10	2525	881.5				23.11	23.27	-0.16
2A-5A-[48A] [2A]-5A-48A **[2A]-5A-[48A]**	[2A]	5A	[48A]		QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	55990	3625				22.74	22.91	-0.17
	5A	[2A]	[48A]		QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	55990	3625				23.42	23.52	-0.10
2A-13A-[48A] [2A]-13A-48A **[2A]-13A-[48A]**	[2A]	13A	[48A]		QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	20	55990	3625				22.74	22.87	-0.13
	13A	[2A]	[48A]		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	55990	3625				23.80	23.92	-0.12
2A-29A-[66A] [2A]-29A-66A **[2A]-29A-[66A]**	[2A]	[66A]	29A		QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	10	9715	722.5				22.74	22.90	-0.16
	[66A]	[2A]	29A		QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	10	9715	722.5				22.72	22.85	-0.13
2A-[48A]-48A [2A]-48A-48A 2A-[48A]-[48A] **[2A]-[48A]-48A**	[2A]	[48A]	48A		QPSK	20	18700	1860	1/0	20	700	1940	20	55340	3560	20	55640	3690				22.74	22.84	-0.10
[2A]-[48C]	[2A]	[48C]	[48C]		QPSK	20	18700	1860	1/0	20	700	1940	20	55990	3625	20	56188	3644.8				22.74	22.91	-0.17
2A-[48A]-66A	2A	66A	[48A]		QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	55990	3625				22.74	22.95	-0.21
	66A	2A	[48A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	55990	3625				22.72	22.94	-0.22
2A-[48A]-[66A]	2A	[66A]	[48A]		QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	55990	3625				22.74	22.86	-0.12
	[66A]	2A	[48A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	55990	3625				22.72	22.84	-0.12
2A-48A-[66A] [2A]-48A-66A **[2A]-48A-[66A]**	[2A]	[66A]	48A		QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	55990	3625				22.74	22.97	-0.23
	[66A]	[2A]	48A		QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	55990	3625				22.72	22.94	-0.22
[2A]-[48A]-66A	[2A]	66A	[48A]		QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	55990	3625				22.74	22.87	-0.13
	66A	[2A]	[48A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	55990	3625				22.72	22.95	-0.23
[2A]-[66A]-[66A]	[2A]	[66A]	[66A]		QPSK	20	18700	1860	1/0	20	700	1940	20	66536	2120	20	67036	2170				22.74	22.88	-0.14
	[66A]	[66A]	[2A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960				22.72	22.85	-0.13
[2A]-[66B]	[2A]	[66B]	[66B]		QPSK	20	18700	1860	1/0	20	700	1940	15	66786	2145	5	66879	2154.3				22.74	22.94	-0.20
	[66B]	[66B]	[2A]		QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	900	1960				22.73	22.95	-0.22
[2A]-[66C]	[2A]	[66C]	[66C]		QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	66984	2164.8				22.74	22.90	-0.16
	[66C]	[66C]	[2A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960				22.72	22.94	-0.22
4A-[4A]-7A	[4A]	[4A]	7A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	3100	2655				21.86	22.07	-0.21
[4A]-[4A]-7A	7A	[4A]	[4A]		QPSK	20	20850	2510	1/0	20	2850	2630	20	2175	2132.5	10	2000	2115				23.11	23.34	-0.23
4A-[4A]-13A	[4A]	[4A]	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	10	5230	751				21.86	22.04	-0.18
[4A]-[4A]-13A	13A	[4A]	[4A]		QPSK	10	23230	782	1/0	10	5230	751	20	2175	2132.5	10	2000	2115				23.80	24.00	-0.20
4A-[4A]-29A **[4A]-[4A]-29A**	[4A]	[4A]	29A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	10	9715	722.5				21.86	22.02	-0.16
4A-[4A]-71A	[4A]	[4A]	71A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	68761	634.5				21.86	22.10	-0.24
[4A]-[4A]-71A	71A	[4A]	[4A]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	2175	2132.5	10	2000	2115				23.20	23.39	-0.19
[4A]-7A-12A	[4A]	7A	12A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	3100	2655	10	5095	737.5				21.86	21.98	-0.12
	7A	[4A]	12A		QPSK	20	20850	2510	1/0	20	2850	2630	20	2175	2132.5	10	5095	737.5				23.11	23.23	-0.12
	12A	[4A]	7A		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	2175	2132.5	20	3100	2655				23.12	23.31	-0.19

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

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3		PCC				PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
4A-[48C] [4A]-48C **[4A]-[48C]**	[4A]	[48C]	[48C]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55990	3625	20	56188	3644.8				21.86	21.97	-0.11
7A-12A-[66A]	7A	[66A]	12A		QPSK	20	20850	2510	1/0	20	2850	2630	20	66786	2145	10	5095	737.5				23.11	23.31	-0.20
	12A	[66A]	7A		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	66786	2145	20	3100	2655				23.12	23.31	-0.19
	[66A]	7A	12A		QPSK	20	132072	1720	1/49	20	66536	2120	20	3100	2655	10	5095	737.5				22.72	22.92	-0.20
12A-[48C]	12A	[48C]	[48C]		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	55990	3625	20	56188	3644.8				23.12	23.29	-0.17
13A-[48A]-48A **13A-[48A]-[48A]**	13A	[48A]	[48A]		QPSK	10	23230	782	1/0	10	5230	751	20	55340	3560	20	55640	3690				23.80	23.90	-0.10
13A-48A-[66A] 13A-[48A]-66A **13A-[48A]-[66A]**	13A	[48A]	[66A]		QPSK	10	23230	782	1/0	10	5230	751	20	55990	3625	20	66786	2145				23.80	23.98	-0.18
	[66A]	[48A]	13A		QPSK	20	132072	1720	1/49	20	66536	2120	20	55990	3625	10	5230	751				22.72	22.82	-0.10
[41A]-[41C]	[41A]	[41C]	[41C]		QPSK	20	39750	2506	1/99	20	39750	2506	20	40620	2593	20	40818	2612.8				22.73	22.93	-0.20
	[41C]	[41C]	[41A]		QPSK	20	39750	2506	1/99	20	39750	2506	20	39948	2525.8	20	41490	2680				22.73	22.83	-0.10
[41D]	[41D]	[41D]	[41D]		QPSK	20	39750	2506	1/99	20	39750	2506	20	39948	2525.8	20	40146	2545.6				22.73	22.89	-0.16
48A-[48C] **[48A]-[48C]**	[48A]	[48C]	[48C]		QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	56640	3690	20	56442	3670.2				21.83	21.94	-0.11
	[48C]	[48C]	[48A]		QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56640	3690				21.83	21.97	-0.14
[48D]	[48D]	[48D]	[48D]		QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56169	3642.9				21.83	21.99	-0.16
66A-29A-[66A] **[66A]-29A-[66A]**	[66A]	[66A]	29A		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	9715	722.5				22.72	22.85	-0.13
[66A]-[48C]	[66A]	[48C]	[48C]		QPSK	20	132072	1720	1/49	20	66536	2120	20	55990	3625	20	55792	3605.2				22.72	22.85	-0.13
[66A]-[48A]-[66A]	[66A]	[66A]	[48A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55990	3625				22.72	22.92	-0.20
[66B]-[48A]	[66B]	[66B]	[48A]		QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	55990	3625				22.73	22.93	-0.20
[66C]-[48A]	[66C]	[66C]	[48A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	55990	3625				22.72	22.89	-0.17
[66A]-[66B]	[66A]	[66B]	[66B]		QPSK	20	132072	1720	1/49	20	66536	2120	15	67061	2172.5	5	66968	2163.2				22.72	22.83	-0.11
	[66B]	[66B]	[66A]		QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	66786	2145				22.73	22.89	-0.16
66A-[66C] [66A]-66C **[66A]-[66C]**	[66A]	[66C]	[66C]		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	67234	2189.8				22.72	22.92	-0.20
	[66C]	[66C]	[66A]		QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	67036	2170				22.72	22.88	-0.16
71A-48A-[48A] **71A-[48A]-[48A]**	71A	[48A]	[48A]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	55340	3560	20	56640	3690				23.20	23.32	-0.12
71A-[48C]	71A	[48C]	[48C]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	55990	3625	20	56188	3644.8				23.20	23.31	-0.11
2A-2A-[4A]-4A 2A-[2A]-4A-4A 2A-2A-[4A]-[4A] **2A-[2A]-[4A]-4A**	2A	[2A]	[4A]	4A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	2000	2115	22.74	22.86	-0.12
	[2A]	2A	[4A]	4A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	2000	2115	22.74	22.93	-0.19
	[4A]	4A	[2A]	2A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	700	1940	20	1100	1980	21.86	22.02	-0.16
[2A]-[2A]-4A-4A	4A	[4A]	[2A]	2A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	700	1940	20	1100	1980	21.86	22.06	-0.20
2A-2A-[4A]-5A 2A-2A-[4A]-5A 2A-[2A]-4A-5A **2A-[2A]-[4A]-5A**	2A	[2A]	[4A]	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	22.74	22.94	-0.20
	[2A]	2A	[4A]	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	22.74	22.95	-0.21
	[4A]	[2A]	2A	5A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	700	1940	20	1100	1980	10	2525	881.5	21.86	22.03	-0.17
[2A]-[2A]-4A-5A	5A	[2A]	2A	[4A]	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	700	1940	20	1100	1980	20	2175	2132.5	23.42	23.65	-0.23
2A-2A-[4A]-12A 2A-[2A]-4A-12A **2A-[2A]-[4A]-12A** [2A]-[2A]-4A-12A	2A	[2A]	[4A]	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	22.74	22.84	-0.10
	[2A]	2A	[4A]	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	22.74	22.88	-0.14
	[4A]	12A	[2A]	2A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	5095	737.5	20	700	1940	20	1100	1980	21.86	22.05	-0.19
	12A	[4A]	[2A]	2A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	2175	2132.5	20	700	1940	20	1100	1980	23.12	23.36	-0.24
2A-2A-[4A]-71A 2A-[2A]-4A-71A **2A-[2A]-[4A]-71A** [2A]-[2A]-4A-71A	2A	[2A]	[4A]	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	22.74	22.88	-0.14
	[2A]	2A	[4A]	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	22.74	22.90	-0.16
	[4A]	[2A]	2A	71A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	700	1940	20	1100	1980	20	68761	634.5	21.86	22.09	-0.23
	71A	[4A]	[2A]	2A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	2175	2132.5	20	700	1940	20	1100	1980	23.20	23.40	-0.20
2A-[2A]-5B **[2A]-[2A]-5B**	[2A]	[2A]	5B	5B	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	10	2525	881.5	5	2597	888.7	22.74	22.87	-0.13
	5B	5B	[2A]	[2A]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	700	1940	20	1100	1980	23.42	23.52	-0.10
2A-2A-5A-[66A] 2A-[2A]-5A-66A **2A-[2A]-5A-[66A]** [2A]-[2A]-5A-66A	2A	[2A]	[66A]	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	10	2525	881.5	22.74	22.85	-0.11
	[2A]	2A	[66A]	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	10	2525	881.5	22.74	22.88	-0.14
	5A	[2A]	2A	[66A]	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	700	1940	20	1100	1980	20	66786	2145	23.42	23.65	-0.23
	[66A]	[2A]	2A	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980	10	2525	881.5	22.72	22.95	-0.23
2A-[2A]-7A-12A **[2A]-[2A]-7A-12A**	[2A]	[2A]	7A	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	3100	2655	10	5095	737.5	22.74	22.89	-0.15
	7A	[2A]	[2A]	12A	QPSK	20	20850	2510	1/0	20	2850	2630	20	700	1940	20	1100	1980	10	5095	737.5	23.11	23.30	-0.19
	12A	[2A]	[2A]	7A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	700	1940	20	1100	1980	20	3100	2655	23.12	23.34	-0.22
2A-2A-7A-[66A] 2A-[2A]-7A-66A **2A-[2A]-7A-[66A]** [2A]-[2A]-7A-66A	2A	[2A]	[66A]	7A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	20	3100	2655	22.74	22.89	-0.15
	[2A]	2A	[66A]	7A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	20	3100	2655	22.74	22.94	-0.20
	7A	[66A]	[2A]	2A	QPSK	20	20850	2510	1/0	20	2850	2630	20	66786	2145	20	700	1940	20	1100	1980	23.11	23.27	-0.16
	[66A]	[2A]	2A	7A	QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980	20	3100	2655	22.72	22.93	-0.21
2A-[2A]-12B **[2A]-[2A]-12B**	[2A]	[2A]	12B	12B	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	5	5095	737.5	5	5143	742.3	22.74	22.89	-0.15
	12B	12B	[2A]	[2A]	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	700	1940	20	1100	1980	23.35	23.49	-0.14
2A-2A-12A-[66A] 2A-[2A]-12A-66A **2A-[2A]-12A-[66A]** [2A]-[2A]-12A-66A	2A	[2A]	[66A]	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	10	5095	737.5	22.74	22.91	-0.17
	[2A]	2A	[66A]	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	10	5095	737.5	22.74	22.95	-0.21
	[66A]	[2A]	2A	12A	QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980	10	5095	737.5	22.72	22.86	-0.14
	12A	[66A]	[2A]	2A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	66786	2145	20	700	1940	20	1100	1980	23.12	23.22	-0.10
2A-2A-13A-[66A] 2A-[2A]-13A-66A **2A-[2A]-13A-[66A]** [2A]-[2A]-13A-66A	2A	[2A]	[66A]	13A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	10	5230	751	22.74	22.98	-0.24
	[2A]	2A	[66A]	13A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	10	5230	751	22.74	22.93	-0.19
	13A	[66A]	[2A]	2A	QPSK	10	23230	782	1/0	10	5230	751	20	66786	2145	20	700	1940	20	1100	1980	23.80	23.96	-0.16
	[66A]	[2A]	2A	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980	10	5230	751	22.72	22.96	-0.24
2A-2A-14A-[66A] 2A-[2A]-14A-66A **2A-[2A]-14A-[66A]** [2A]-[2A]-14A-66A	2A	[2A]	[66A]	14A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	10	5330	763	22.74	22.98	-0.24
	[2A]	2A	[66A]	14A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	10	5330	763	22.74	22.97	-0.23
	14A	[66A]	[2A]	2A	QPSK	10	23330	793	1/0	10	5330	763	20	66786	2145	20	700	1940	20	1100	1980	23.63	23.80	-0.17
	[66A]	[2A]	2A	14A	QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980	10	5330	763	22.72	22.82	-0.10
2A-2A-[66A]-66A 2A-[2A]-66A-66A 2A-2A-[66A]-[66A] **2A-[2A]-[66A]-66A** [2A]-[2A]-66A-66A	2A	[2A]	[66A]	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66536	2120	20	67036	2170	22.74	22.85	-0.11
	[2A]	2A	[66A]	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66536	2120	20	67036	2170	22.74	22.91	-0.17
	[66A]	66A	[2A]	2A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	22.72	22.82	-0.10
	66A	[66A]	[2A]	2A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	22.72	22.91	-0.19
2A-2A-[66B]	2A	2A	[66B]	[66B]	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	15	66786	2145	5	66879	2154.3	22.74	22.90	-0.16
	[66B]	[66B]	2A	2A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	700	1940	20	1100	1980	22.73	22.89	-0.16

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

E-UTRA CA configutation (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
2A-[2A]-66B	[2A]	[2A]	66B	66B	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	15	66786	2145	5	66879	2154.3	22.74	22.88	-0.14
[2A]-[2A]-66B	66B	66B	[2A]	[2A]	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	700	1940	20	1100	1980	22.73	22.91	-0.18
2A-2A-[66C]	2A	2A	[66C]	[66C]	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	20	66984	2164.8	22.74	22.94	-0.20
	[66C]	[66C]	2A	2A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	700	1940	20	1100	1980	22.72	22.95	-0.23
2A-[2A]-66C	[2A]	[2A]	66C	66C	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	20	66984	2164.8	22.74	22.90	-0.16
[2A]-[2A]-66C	66C	66C	[2A]	[2A]	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	700	1940	20	1100	1980	22.72	22.83	-0.11
[2C]-66A-66A	[2C]	[2C]	66A	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	898	1959.8	20	66536	2120	20	67036	2170	22.74	22.92	-0.18
	66A	66A	[2C]	[2C]	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	1098	1979.8	22.72	22.83	-0.11
2C-[66A]-66A	2C	2C	[66A]	[66A]	QPSK	20	18700	1860	1/0	20	700	1940	20	898	1959.8	20	66536	2120	20	67036	2170	22.74	22.91	-0.17
2C-[66A]-[66A]	[66A]	[66A]	2C	2C	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	1098	1979.8	22.72	22.88	-0.16
2A-2A-[66A]-71A	2A	[2A]	[66A]	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	22.74	22.94	-0.20
2A-[2A]-66A-71A	[2A]	2A	[66A]	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	22.74	22.96	-0.22
2A-[2A]-[66A]-71A	[66A]	[2A]	2A	71A	QPSK	20	132072	1720	1/49	20	66536	2120	20	700	1940	20	1100	1980	20	68761	634.5	22.72	22.96	-0.24
[2A]-[2A]-66A-71A	71A	[66A]	[2A]	2A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	66786	2145	20	700	1940	20	1100	1980	23.20	23.41	-0.21
2A-[4A]-4A-5A	[2A]	[4A]	4A	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	2000	2115	10	2525	881.5	22.74	22.87	-0.13
[2A]-4A-4A-5A	[4A]	4A	[2A]	5A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	900	1960	10	2525	881.5	21.86	22.09	-0.23
2A-[4A]-[4A]-5A	4A	[4A]	[2A]	5A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	900	1960	10	2525	881.5	21.86	22.02	-0.16
[2A]-[4A]-4A-5A	5A	[2A]	[4A]	4A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	2175	2132.5	10	2000	2115	23.42	23.52	-0.10
2A-[4A]-4A-12A	[2A]	[4A]	4A	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	2000	2115	10	5095	737.5	22.74	22.89	-0.15
[2A]-4A-4A-12A	[4A]	4A	[2A]	12A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	900	1960	10	5095	737.5	21.86	22.06	-0.20
2A-[4A]-[4A]-12A	4A	[4A]	[2A]	12A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	20	900	1960	10	5095	737.5	21.86	22.10	-0.24
[2A]-[4A]-4A-12A	12A	[2A]	[4A]	4A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	2175	2132.5	10	2000	2115	23.12	23.29	-0.17
2A-[4A]-5B	[2A]	[4A]	5B	5B	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	10	2525	881.5	5	2597	888.7	22.74	22.93	-0.19
[2A]-4A-5B	[4A]	[2A]	5B	5B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	2525	881.5	5	2597	888.7	21.86	22.09	-0.23
[2A]-[4A]-5B	5B	5B	[2A]	[4A]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	900	1960	20	2175	2132.5	23.42	23.66	-0.24
2A-[4A]-7A-7A	[2A]	[4A]	7A	7A	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	20	2850	2630	20	3350	2680	22.74	22.96	-0.22
[2A]-4A-7A-7A	[4A]	[2A]	7A	7A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	2850	2630	20	3350	2680	21.86	22.00	-0.14
[2A]-[4A]-7A-7A	7A	7A	[2A]	[4A]	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	900	1960	20	2175	2132.5	23.11	23.28	-0.17
2A-[4A]-7C	[2A]	[4A]	7C	7C	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	20	3100	2655	20	3298	2674.8	22.74	22.86	-0.12
[2A]-4A-7C	[4A]	[2A]	7C	7C	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	3100	2655	20	3298	2674.8	21.86	22.09	-0.23
[2A]-[4A]-7C	7C	7C	[2A]	[4A]	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	900	1960	20	2175	2132.5	23.11	23.30	-0.19
2A-[4A]-12B	[2A]	[4A]	12B	12B	QPSK	20	18700	1860	1/0	20	700	1940	20	2175	2132.5	5	5095	737.5	5	5143	742.3	22.74	22.95	-0.21
[2A]-4A-12B	[4A]	[2A]	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	5	5095	737.5	5	5143	742.3	21.86	22.09	-0.23
[2A]-[4A]-12B	12B	12B	[2A]	[4A]	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	900	1960	20	2175	2132.5	23.35	23.48	-0.13
2A-5B-[66A]	[2A]	[66A]	5B	5B	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	10	2525	881.5	5	2597	888.7	22.74	22.88	-0.14
[2A]-5B-66A	[66A]	[2A]	5B	5B	QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	10	2525	881.5	5	2597	888.7	22.72	22.85	-0.13
[2A]-5B-[66A]	5B	5B	[2A]	[66A]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	900	1960	20	66786	2145	23.42	23.64	-0.22
2A-5A-[48C]	2A	[48C]	[48C]	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	55990	3625	20	56188	3644.8	10	2525	881.5	22.74	22.96	-0.22
	5A	[48C]	[48C]	2A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	55990	3625	20	56188	3644.8	20	900	1960	23.42	23.58	-0.16
[2A]-5A-48C	[2A]	5A	48C	48C	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	55990	3625	20	56188	3644.8	22.74	22.92	-0.18
	5A	[2A]	48C	48C	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	55990	3625	20	56188	3644.8	23.42	23.53	-0.11
2A-5A-[66A]-66A	[2A]	[66A]	66A	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	66536	2120	20	67036	2170	10	2525	881.5	22.74	22.84	-0.10
[2A]-5A-66A-66A	5A	[2A]	[66A]	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	66536	2120	20	67036	2170	23.42	23.55	-0.13
2A-5A-[66A]-[66A]	[66A]	66A	[2A]	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	22.72	22.95	-0.23
[2A]-5A-[66A]-66A	66A	[66A]	[2A]	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	22.72	22.87	-0.15
2A-5A-[66B]	2A	[66B]	[66B]	5A	QPSK	20	18700	1860	1/0	20	700	1940	15	66786	2145	5	66879	2154.3	10	2525	881.5	22.74	22.86	-0.12
	5A	[66B]	[66B]	2A	QPSK	10	20525	836.5	1/0	10	2525	881.5	15	66786	2145	5	66879	2154.3	20	900	1960	23.42	23.61	-0.19
	[66B]	[66B]	2A	5A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	900	1960	10	2525	881.5	22.73	22.95	-0.22
[2A]-5A-66B	[2A]	5A	66B	66B	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	15	66786	2145	5	66879	2154.3	22.74	22.95	-0.21
	5A	[2A]	66B	66B	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	15	66786	2145	5	66879	2154.3	23.42	23.59	-0.17
	66B	66B	[2A]	5A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	900	1960	10	2525	881.5	22.73	22.90	-0.17
2A-5A-[66C]	2A	[66C]	[66C]	5A	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	66984	2164.8	10	2525	881.5	22.74	22.86	-0.12
	5A	[66C]	[66C]	2A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	66786	2145	20	66984	2164.8	20	900	1960	23.42	23.61	-0.19
	[66C]	[66C]	2A	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	10	2525	881.5	22.72	22.94	-0.22
[2A]-5A-66C	[2A]	5A	66C	66C	QPSK	20	18700	1860	1/0	20	700	1940	10	2525	881.5	20	66786	2145	20	66984	2164.8	22.74	22.88	-0.14
	5A	[2A]	66C	66C	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	66786	2145	20	66984	2164.8	23.42	23.55	-0.13
	66C	66C	[2A]	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	10	2525	881.5	22.72	22.92	-0.20
[2A]-7A-7A-13A	[2A]	7A	7A	13A	QPSK	20	18700	1860	1/0	20	700	1940	20	2850	2630	20	3350	2680	10	5230	751	22.74	22.96	-0.22
	7A	7A	[2A]	13A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	900	1960	10	5230	751	23.11	23.26	-0.15
	13A	[2A]	7A	7A	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	2850	2630	20	3350	2680	23.80	24.04	-0.24
[2A]-7A-7A-29A	[2A]	7A	7A	29A	QPSK	20	18700	1860	1/0	20	700	1940	20	2850	2630	20	3350	2680	10	9715	722.5	22.74	22.85	-0.11
	7A	7A	[2A]	29A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	900	1960	10	9715	722.5	23.11	23.31	-0.20
[2A]-7C-29A	[2A]	7C	7C	29A	QPSK	20	18700	1860	1/0	20	700	1940	20	3100	2655	20	3298	2674.8	10	9715	722.5	22.74	22.90	-0.16
	7C	7C	[2A]	29A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	900	1960	10	9715	722.5	23.11	23.34	-0.23
2A-7A-7A-[66A]	[2A]	[66A]	7A	7A	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	2850	2630	20	3350	2680	22.74	22.97	-0.23
[2A]-7A-7A-66A	[66A]	[2A]	7A	7A	QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	2850	2630	20	3350	2680	22.72	22.93	-0.21
[2A]-7A-7A-[66A]	7A	7A	[2A]	[66A]	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	900	1960	20	66786	2145	23.11	23.21	-0.10
2A-7C-[66A]	[2A]	[66A]	7C	7C	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	3100	2655	20	3298	2674.8	22.74	22.96	-0.22
[2A]-7C-66A	[66A]	[2A]	7C	7C	QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	3100	2655	20	3298	2674.8	22.72	22.96	-0.24
[2A]-7C-[66A]	7C	7C	[2A]	[66A]	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	900	1960	20	66786	2145	23.11	23.25	-0.14

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

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
[2A]-7A-12B	[2A]	7A	12B	12B	QPSK	20	18700	1860	1/0	20	700	1940	20	3100	2655	5	5095	737.5	5	5143	742.3	22.74	22.96	-0.22
	7A	[2A]	12B	12B	QPSK	20	20850	2510	1/0	20	2850	2630	20	900	1960	5	5095	737.5	5	5143	742.3	23.11	23.22	-0.11
	12B	12B	[2A]	7A	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	900	1960	20	3100	2655	23.35	23.57	-0.22
2A-7A-[66A]-66A	[2A]	[66A]	66A	7A	QPSK	20	18700	1860	1/0	20	700	1940	20	66536	2120	20	67036	2170	20	3100	2655	22.74	22.98	-0.24
[2A]-7A-66A-66A	7A	[2A]	[66A]	66A	QPSK	20	20850	2510	1/0	20	2850	2630	20	900	1960	20	66536	2120	20	67036	2170	23.11	23.30	-0.19
2A-7A-[66A]-[66A]	[66A]	66A	[2A]	7A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	3100	2655	22.72	22.87	-0.15
[2A]-7A-[66A]-66A	66A	[66A]	[2A]	7A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	3100	2655	22.72	22.95	-0.23
2A-12B-[66A]	[2A]	[66A]	12B	12B	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	5	5095	737.5	5	5143	742.3	22.74	22.92	-0.18
[2A]-12B-66A	[66A]	[2A]	12B	12B	QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	5	5095	737.5	5	5143	742.3	22.72	22.96	-0.24
[2A]-12B-[66A]	12B	12B	[2A]	[66A]	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	900	1960	20	66786	2145	23.35	23.45	-0.10
2A-12A-[66A]-66A	[2A]	[66A]	66A	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	66536	2120	20	67036	2170	10	5095	737.5	22.74	22.97	-0.23
[2A]-12A-66A-66A	12A	[2A]	[66A]	66A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	66536	2120	20	67036	2170	23.12	23.31	-0.19
2A-12A-[66A]-[66A]	[66A]	66A	[2A]	12A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	22.72	22.87	-0.15
[2A]-12A-[66A]-66A	66A	[66A]	[2A]	12A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	22.72	22.88	-0.16
2A-12A-[66C]	2A	[66C]	[66C]	12A	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	66984	2164.8	10	5095	737.5	22.74	22.85	-0.11
	12A	[66C]	[66C]	2A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	66786	2145	20	66984	2164.8	20	900	1960	23.12	23.27	-0.15
	[66C]	[66C]	2A	12A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	10	5095	737.5	22.72	22.92	-0.20
[2A]-12A-66C	[2A]	12A	66C	66C	QPSK	20	18700	1860	1/0	20	700	1940	10	5095	737.5	20	66786	2145	20	66984	2164.8	22.74	22.89	-0.15
	12A	[2A]	66C	66C	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	66786	2145	20	66984	2164.8	23.12	23.36	-0.24
	66C	66C	[2A]	12A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	10	5095	737.5	22.72	22.87	-0.15
2A-13A-[48C]	2A	[48C]	[48C]	13A	QPSK	20	18700	1860	1/0	20	700	1940	20	55990	3625	20	56188	3644.8	10	5230	751	22.74	22.92	-0.18
	13A	[48C]	[48C]	2A	QPSK	10	23230	782	1/0	10	5230	751	20	55990	3625	20	56188	3644.8	20	900	1960	23.80	24.03	-0.23
[2A]-13A-48C	[2A]	13A	48C	48C	QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	20	55990	3625	20	56188	3644.8	22.74	22.87	-0.13
	13A	[2A]	48C	48C	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	55990	3625	20	56188	3644.8	23.80	24.00	-0.20
2A-13A-[66A]-66A	[2A]	[66A]	66A	13A	QPSK	20	18700	1860	1/0	20	700	1940	20	66536	2120	20	67036	2170	10	5230	751	22.74	22.95	-0.21
[2A]-13A-66A-66A	13A	[2A]	[66A]	66A	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	66536	2120	20	67036	2170	23.80	23.95	-0.15
2A-13A-[66A]-[66A]	[66A]	66A	[2A]	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5230	751	22.72	22.96	-0.24
[2A]-13A-[66A]-66A	66A	[66A]	[2A]	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5230	751	22.72	22.89	-0.17
2A-13A-[66B]	2A	[66B]	[66B]	13A	QPSK	20	18700	1860	1/0	20	700	1940	15	66786	2145	5	66879	2154.3	10	5230	751	22.74	22.85	-0.11
	13A	[66B]	[66B]	2A	QPSK	10	23230	782	1/0	10	5230	751	15	66786	2145	5	66879	2154.3	20	900	1960	23.80	24.03	-0.23
	[66B]	[66B]	2A	13A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	900	1960	10	5230	751	22.73	22.85	-0.12
[2A]-13A-66B	[2A]	13A	66B	66B	QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	15	66786	2145	5	66879	2154.3	22.74	22.85	-0.11
	13A	[2A]	66B	66B	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	15	66786	2145	5	66879	2154.3	23.80	23.91	-0.11
	66B	66B	[2A]	13A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	900	1960	10	5230	751	22.73	22.85	-0.12
2A-13A-[66C]	2A	[66C]	[66C]	13A	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	66984	2164.8	10	5230	751	22.74	22.93	-0.19
	13A	[66C]	[66C]	2A	QPSK	10	23230	782	1/0	10	5230	751	20	66786	2145	20	66984	2164.8	20	900	1960	23.80	23.94	-0.14
	[66C]	[66C]	2A	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	10	5230	751	22.72	22.90	-0.18
[2A]-13A-66C	[2A]	13A	66C	66C	QPSK	20	18700	1860	1/0	20	700	1940	10	5230	751	20	66786	2145	20	66984	2164.8	22.74	22.96	-0.22
	13A	[2A]	66C	66C	QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	66786	2145	20	66984	2164.8	23.80	23.96	-0.16
	66C	66C	[2A]	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	10	5230	751	22.72	22.86	-0.14
2A-14A-[66A]-66A	[2A]	[66A]	66A	14A	QPSK	20	18700	1860	1/0	20	700	1940	20	66536	2120	20	67036	2170	10	5330	763	22.74	22.87	-0.13
[2A]-14A-66A-66A	14A	[2A]	[66A]	66A	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	20	66536	2120	20	67036	2170	23.63	23.87	-0.24
2A-14A-[66A]-[66A]	[66A]	66A	[2A]	14A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	22.72	22.93	-0.21
[2A]-14A-[66A]-66A	66A	[66A]	[2A]	14A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	22.72	22.92	-0.20
2A-48A-[48C]	2A	[48C]	[48C]	48A	QPSK	20	18700	1860	1/0	20	700	1940	20	55990	3625	20	56188	3644.8	20	55340	3560	22.74	22.95	-0.21
2A-[48A]-48C [2A]-48A-48C **[2A]-[48A]-48C**	[2A]	[48A]	48C	48C	QPSK	20	18700	1860	1/0	20	700	1940	20	55340	3560	20	55990	3625	20	56188	3644.8	22.74	22.97	-0.23
[2A]-48D	[2A]	48D	48D	48D	QPSK	20	18700	1860	1/0	20	700	1940	20	55990	3625	20	56188	3644.8	20	56386	3664.6	22.74	22.97	-0.23
2A-[48C]-66A	2A	[48C]	[48C]	66A	QPSK	20	18700	1860	1/0	20	700	1940	20	55990	3625	20	56188	3644.8	20	66786	2145	22.74	22.96	-0.22
	66A	[48C]	[48C]	2A	QPSK	20	132072	1720	1/49	20	66536	2120	20	55990	3625	20	56188	3644.8	20	900	1960	22.72	22.83	-0.11
2A-48C-[66A] [2A]-48C-66A	[2A]	[66A]	48C	48C	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	55990	3625	20	56188	3644.8	22.74	22.87	-0.13
[2A]-48C-[66A]	[66A]	[2A]	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	20	900	1960	20	55990	3625	20	56188	3644.8	22.72	22.95	-0.23
2A-66A-[66B]	2A	[66B]	[66B]	66A	QPSK	20	18700	1860	1/0	20	700	1940	15	66511	2117.5	5	66604	2126.8	20	67036	2170	22.74	22.86	-0.12
	[66B]	[66B]	66A	2A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	67036	2170	20	900	1960	22.73	22.85	-0.12
	66A	[66B]	[66B]	2A	QPSK	20	132072	1720	1/49	20	66536	2120	15	67061	2172.5	5	66968	2163.2	20	900	1960	22.72	22.88	-0.16
2A-[66A]-66B	[2A]	[66A]	66B	66B	QPSK	20	18700	1860	1/0	20	700	1940	20	67036	2170	15	66511	2117.5	5	66604	2126.8	22.74	22.94	-0.20
[2A]-66A-66B	[66A]	66B	66B	[2A]	QPSK	20	132072	1720	1/49	20	66536	2120	15	67061	2172.5	5	66968	2163.2	20	900	1960	22.72	22.88	-0.16
[2A]-[66A]-66B	66B	66B	[66A]	[2A]	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	67036	2170	20	900	1960	22.73	22.94	-0.21
2A-[66A]-66A-71A	[2A]	[66A]	66A	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	66536	2120	20	67036	2170	20	68761	634.5	22.74	22.91	-0.17
[2A]-66A-66A-71A	[66A]	66A	[2A]	71A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	22.72	22.88	-0.16
2A-[66A]-[66A]-71A	66A	[66A]	[2A]	71A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	22.72	22.86	-0.14
[2A]-[66A]-66A-71A	71A	[2A]	[66A]	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66536	2120	20	67036	2170	23.20	23.31	-0.11

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

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
2A-[66C]-71A	2A	[66C]	[66C]	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	66984	2164.8	20	68761	634.5	22.74	22.93	-0.19
	[66C]	[66C]	2A	71A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	20	68761	634.5	22.72	22.95	-0.23
	71A	[66C]	[66C]	2A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	66786	2145	20	66984	2164.8	20	900	1960	23.20	23.31	-0.11
[2A]-66C-71A	[2A]	66C	66C	71A	QPSK	20	18700	1860	1/0	20	700	1940	20	66786	2145	20	66984	2164.8	20	68761	634.5	22.74	22.90	-0.16
	66C	66C	[2A]	71A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	900	1960	20	68761	634.5	22.72	22.87	-0.15
	71A	[2A]	66C	66C	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	66984	2164.8	23.20	23.30	-0.10
4A-[4A]-5B	[4A]	[4A]	5B	5B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	10	2525	881.5	5	2597	888.7	21.86	21.96	-0.10
[4A]-[4A]-5B	5B	5B	[4A]	[4A]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	2175	2132.5	10	2000	2115	23.42	23.56	-0.14
4A-[4A]-12B	[4A]	[4A]	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2000	2115	5	5095	737.5	5	5143	742.3	21.86	22.07	-0.21
[4A]-[4A]-12B	12B	12B	[4A]	[4A]	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	2175	2132.5	10	2000	2115	23.35	23.45	-0.10
[4A]-48D	[4A]	48D	48D	48D	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55990	3625	20	56188	3644.8	20	56386	3664.6	21.86	22.04	-0.18
5A-5A-[66A]-66A	5A	5A	[66A]	[66A]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2425	871.5	20	66536	2120	20	67036	2170	23.42	23.54	-0.12
5A-5A-[66A]-[66A]	[66A]	[66A]	5A	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	2525	881.5	5	2425	871.5	22.72	22.91	-0.19
5A-5A-[66B]	5A	5A	[66B]	[66B]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2425	871.5	15	66511	2117.5	5	66604	2126.8	23.42	23.63	-0.21
	[66B]	[66B]	5A	5A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	10	2525	881.5	5	2425	871.5	22.73	22.84	-0.11
5A-5A-[66C]	5A	5A	[66C]	[66C]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2425	871.5	20	66786	2145	20	66984	2164.8	23.42	23.63	-0.21
	[66C]	[66C]	5A	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	10	2525	881.5	5	2425	871.5	22.72	22.91	-0.19
5B-[66A]-66A	5B	5B	[66A]	[66A]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	66536	2120	20	67036	2170	23.42	23.57	-0.15
5B-[66A]-[66A]	[66A]	[66A]	5B	5B	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	2525	881.5	5	2597	888.7	22.72	22.88	-0.16
5B-[66B]	5B	5B	[66B]	[66B]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	15	66511	2117.5	5	66604	2126.8	23.42	23.60	-0.18
	[66B]	[66B]	5B	5B	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	10	2525	881.5	5	2597	888.7	22.73	22.91	-0.18
5B-[66C]	5B	5B	[66C]	[66C]	QPSK	10	20525	836.5	1/0	10	2525	881.5	5	2597	888.7	20	66786	2145	20	66984	2164.8	23.42	23.62	-0.20
	[66C]	[66C]	5B	5B	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	10	2525	881.5	5	2597	888.7	22.72	22.86	-0.14
5A-7A-[66A]-66A	5A	[66A]	[66A]	7A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	66536	2120	20	67036	2170	20	3100	2655	23.42	23.65	-0.23
5A-7A-[66A]-[66A]	[66A]	[66A]	5A	7A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	2525	881.5	20	3100	2655	22.72	22.88	-0.16
	7A	[66A]	[66A]	5A	QPSK	20	20850	2510	1/0	20	2850	2630	20	66536	2120	20	67036	2170	10	2525	881.5	23.11	23.34	-0.23
5A-48C-[66A]	5A	[66A]	48C	48C	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	66786	2145	20	55990	3625	20	56188	3644.8	23.42	23.54	-0.12
	[66A]	48C	48C	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	55990	3625	20	56188	3644.8	10	2525	881.5	22.72	22.87	-0.15
5A-[48C]-66A	5A	[48C]	[48C]	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	55990	3625	20	56188	3644.8	20	66786	2145	23.42	23.58	-0.16
	66A	[48C]	[48C]	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	55990	3625	20	56188	3644.8	10	2525	881.5	22.72	22.88	-0.16
5A-48A-[66A]-66A	5A	[48A]	[66A]	66A	QPSK	10	20525	836.5	1/0	10	2525	881.5	20	55990	3625	20	66536	2120	20	67036	2170	23.42	23.59	-0.17
5A-[48A]-66A-66A 5A-48A-[66A]-[66A]	[66A]	66A	[48A]	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55990	3625	10	2525	881.5	22.72	22.87	-0.15
5A-[48A]-[66A]-66A	66A	[66A]	[48A]	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55990	3625	10	2525	881.5	22.72	22.83	-0.11
7A-7A-29A-[66A]	7A	7A	[66A]	29A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	66786	2145	10	9715	722.5	23.11	23.30	-0.19
	[66A]	7A	7A	29A	QPSK	20	132072	1720	1/49	20	66536	2120	20	2850	2630	20	3350	2680	10	9715	722.5	22.72	22.84	-0.12
7C-29A-[66A]	7C	7C	[66A]	29A	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	66786	2145	10	9715	722.5	23.11	23.33	-0.22
	[66A]	7C	7C	29A	QPSK	20	132072	1720	1/49	20	66536	2120	20	3100	2655	20	3298	2674.8	10	9715	722.5	22.72	22.94	-0.22
7A-7A-[66A]-66A	7A	7A	[66A]	[66A]	QPSK	20	20850	2510	1/0	20	2850	2630	20	3350	2680	20	66536	2120	20	67036	2170	23.11	23.30	-0.19
7A-7A-[66A]-[66A]	[66A]	[66A]	7A	7A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	2850	2630	20	3350	2680	22.72	22.83	-0.11
7C-[66A]-66A	7C	7C	[66A]	[66A]	QPSK	20	20850	2510	1/0	20	2850	2630	20	3048	2649.8	20	66536	2120	20	67036	2170	23.11	23.25	-0.14
7C-[66A]-[66A]	[66A]	[66A]	7C	7C	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	3100	2655	20	3298	2674.8	22.72	22.84	-0.12
7A-12B-[66A]	7A	[66A]	12B	12B	QPSK	20	20850	2510	1/0	20	2850	2630	20	66786	2145	5	5095	737.5	5	5143	742.3	23.11	23.24	-0.13
	[66A]	7A	12B	12B	QPSK	20	132072	1720	1/49	20	66536	2120	20	3100	2655	5	5095	737.5	5	5143	742.3	22.72	22.82	-0.10
	12B	12B	[66A]	7A	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	66786	2145	20	3100	2655	23.35	23.45	-0.10
12B-[66A]-66A	12B	12B	[66A]	[66A]	QPSK	5	23155	713.5	1/0	5	5155	743.5	5	5107	738.7	20	66536	2120	20	67036	2170	23.35	23.53	-0.18
12B-[66A]-[66A]	[66A]	[66A]	12B	12B	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	5	5095	737.5	5	5143	742.3	22.72	22.83	-0.11
13A-48A-[48C]	13A	[48C]	[48C]	48A	QPSK	10	23230	782	1/0	10	5230	751	20	55990	3625	20	56188	3644.8	20	55340	3560	23.80	23.99	-0.19
13A-48C-[66A]	13A	[66A]	48C	48C	QPSK	10	23230	782	1/0	10	5230	751	20	66786	2145	20	55990	3625	20	56188	3644.8	23.80	24.03	-0.23
	[66A]	13A	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	10	5230	751	20	55990	3625	20	56188	3644.8	22.72	22.84	-0.12
13A-[48C]-66A	13A	[48C]	[48C]	66A	QPSK	10	23230	782	1/0	10	5230	751	20	55990	3625	20	56188	3644.8	20	66786	2145	23.80	24.00	-0.20
	66A	[48C]	[48C]	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	55990	3625	20	56188	3644.8	10	5230	751	22.72	22.88	-0.16
13A-48A-[66B]	13A	[66B]	[66B]	48A	QPSK	10	23230	782	1/0	10	5230	751	15	66511	2117.5	5	66604	2126.8	20	55990	3625	23.80	23.98	-0.18
	[66B]	[66B]	13A	48A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	10	5230	751	20	55990	3625	22.73	22.84	-0.11
13A-[48A]-66B	13A	[48A]	66B	66B	QPSK	10	23230	782	1/0	10	5230	751	20	55990	3625	15	66511	2117.5	5	66604	2126.8	23.80	23.98	-0.18
	66B	66B	[48A]	13A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	55990	3625	10	5230	751	22.73	22.91	-0.18
13A-48A-[66C]	13A	[66C]	[66C]	48A	QPSK	10	23230	782	1/0	10	5230	751	20	66786	2145	20	66984	2164.8	20	55990	3625	23.80	23.94	-0.14
	[66C]	[66C]	13A	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	10	5230	751	20	55990	3625	22.72	22.88	-0.16
13A-[48A]-66C	13A	[48A]	66C	66C	QPSK	10	23230	782	1/0	10	5230	751	20	55990	3625	20	66786	2145	20	66984	2164.8	23.80	23.92	-0.12
	66C	66C	[48A]	13A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	55990	3625	10	5230	751	22.72	22.94	-0.22
13A-66A-[66B]	13A	[66B]	[66B]	66A	QPSK	10	23230	782	1/0	10	5230	751	15	66511	2117.5	5	66604	2126.8	20	67036	2170	23.80	23.94	-0.14
	66A	[66B]	[66B]	13A	QPSK	20	132072	1720	1/49	20	66536	2120	15	67061	2172.5	5	66968	2163.2	10	5230	751	22.72	22.92	-0.20
	[66B]	[66B]	66A	13A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	67036	2170	10	5230	751	22.73	22.87	-0.14

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

E-UTRA CA configutation (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta
	PCC	SCC1	SCC2	SCC3	PCC					PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)			
13A-[66A]-66B	13A	[66A]	66B	66B	QPSK	10	23230	782	1/0	10	5230	751	20	67036	2170	15	66511	2117.5	5	66604	2126.8	23.80	23.94	-0.14
	[66A]	66B	66B	13A	QPSK	20	132072	1720	1/49	20	66536	2120	15	67061	2172.5	5	66968	2163.2	10	5230	751	22.72	22.88	-0.16
	66B	66B	[66A]	13A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	67036	2170	10	5230	751	22.73	22.86	-0.13
[25A]-41D	[25A]	41D	41D	41D	QPSK	20	26365	1882.5	1/99	20	8365	1962.5	20	40620	2593	20	40818	2612.8	20	41016	2632.6	22.68	22.86	-0.18
[48A]-48D	[48A]	48D	48D	48D	QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	56640	3690	20	56442	3670.2	20	56244	3650.4	21.83	21.96	-0.13
	48D	48D	48D	[48A]	QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56169	3642.9	20	56640	3690	21.83	21.99	-0.16
48C-[48C]	48C	48C	[48C]	[48C]	QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56640	3690	20	56442	3670.2	21.83	22.01	-0.18
	[48C]	[48C]	48C	48C	QPSK	20	55773	3603.3	1/99	20	55773	3603.3	20	55971	3623.1	20	56640	3690	20	56442	3670.2	21.83	21.93	-0.10
66A-48A-[48C]	66A	[48C]	[48C]	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	55340	3560	20	55538	3579.8	20	56640	3690	22.72	22.93	-0.21
66A-[48A]-48C [66A]-48A-48C **[66A]-[48A]-48C**	[66A]	[48A]	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	20	56640	3690	20	55340	3560	20	55538	3579.8	22.72	22.92	-0.20
[66A]-48D	[66A]	48D	48D	48D	QPSK	20	132072	1720	1/49	20	66536	2120	20	55340	3560	20	55538	3579.8	20	55736	3599.6	22.72	22.82	-0.10
66A-48A-48A-[66A] 66A-48A-[48A]-66A **66A-48A-[48A]-[66A]**	66A	[66A]	[48A]	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55340	3560	20	56640	3690	22.72	22.83	-0.11
[66A]-48A-48A-[66A] 66A-[48A]-[48A]-66A	[66A]	66A	[48A]	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55340	3560	20	56640	3690	22.72	22.87	-0.15
66A-[48C]-66A	66A	66A	[48C]	[48C]	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55990	3625	20	56188	3644.8	22.72	22.83	-0.11
66A-48C-[66A] **[66A]-48C-[66A]**	[66A]	[66A]	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55990	3625	20	56188	3644.8	22.72	22.82	-0.10
[66B]-48A-48A	[66B]	[66B]	48A	48A	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	55340	3560	20	56640	3690	22.73	22.95	-0.22
66B-48A-[48A] **66B-[48A]-[48A]**	66B	66B	[48A]	[48A]	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	55340	3560	20	56640	3690	22.73	22.86	-0.13
66B-[48C]	66B	66B	[48C]	[48C]	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	55990	3625	20	56188	3644.8	22.73	22.92	-0.19
[66B]-48C	[66B]	[66B]	48C	48C	QPSK	15	132047	1717.5	1/37	15	66511	2117.5	5	66604	2126.8	20	55990	3625	20	56188	3644.8	22.73	22.84	-0.11
[66C]-48A-48A	[66C]	[66C]	48A	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	55340	3560	20	56640	3690	22.72	22.87	-0.15
66C-[48A]-[48A]	66C	66C	[48A]	[48A]	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	55340	3560	20	56640	3690	22.72	22.92	-0.20
66C-[48C]	66C	66C	[48C]	[48C]	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	55990	3625	20	56188	3644.8	22.72	22.84	-0.12
[66C]-48C	[66C]	[66C]	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	20	66734	2139.8	20	55990	3625	20	56188	3644.8	22.72	22.86	-0.14

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.

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