LTE Downlink Carrier Aggregation configurations

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			
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-30A	(0)	Band 2			Yes	Yes	Yes	Yes	30
		Band 30			Yes	Yes			
2A-46A	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 46						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-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				
4A-13A	(0)	Band 4			Yes	Yes	Yes	Yes	30
		Band 13				Yes			
	(1)	Band 4			Yes	Yes			20
		Band 13				Yes			
4A-46A	(0)	Band 4			Yes	Yes	Yes	Yes	40
		Band 46						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-25A	(0)	Band 5			Yes	Yes			30
		Band 25			Yes	Yes	Yes	Yes	
5A-30A	(0)	Band 5			Yes	Yes			20
		Band 30			Yes	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-12A	(0)	Band 2	2A-2A BCS 0						50
		Band 12			Yes	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-30A	(0)	Band 2	2A-2A BCS 0						50
		Band 30			Yes	Yes			
2A-2A-46A	(0)	Band 2	2A-2A BCS 0						60
		Band 46						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-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-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 4	5B BCS 0						
2A-5A-30A	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 5			Yes	Yes			
		Band 30			Yes	Yes			
2A-5A-46A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 5			Yes	Yes			
		Band 46						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-12B	(0)	Band 2	12B BCS 0						35
		Band 12							
2A-12A-30A	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 12			Yes	Yes			
		Band 30			Yes	Yes			
2A-12A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 12			Yes	Yes			
		Band 66			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-30A	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 14			Yes	Yes			
		Band 30			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-30A	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 29			Yes	Yes			
		Band 30			Yes	Yes			
2A-29A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 29			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-30A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-46A-46A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 46	46A-46A BCS 0						

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-30A	(0)	Band 2	2A-2A BCS 0						60
		Band 5			Yes	Yes			
		Band 30			Yes	Yes			
2A-2A-5A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 5			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-12B	(0)	Band 2	2A-2A BCS 0						55
		Band 12	12B BCS 0						
2A-2A-12A-30A	(0)	Band 2	2A-2A BCS 0						60
		Band 12			Yes	Yes			
		Band 30			Yes	Yes			
2A-2A-12A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 12			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-14A-30A	(0)	Band 2	2A-2A BCS 0						60
		Band 14			Yes	Yes			
		Band 30			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-29A-30A	(0)	Band 2	2A-2A BCS 0						60
		Band 29			Yes	Yes			
		Band 30			Yes	Yes			
2A-2A-29A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 29			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-30A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-46C	(0)	Band 2	2A-2A BCS 0						80
		Band 46	46C 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			
2A-4A-4A-12A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 4	4A-4A BCS 0						
		Band 12			Yes	Yes			
2A-4A-12B	(0)	Band 2			Yes	Yes	Yes	Yes	55
		Band 4			Yes	Yes	Yes	Yes	
		Band 12	12B BCS 0						
2A-5B-30A	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 5	5B BCS 0						
		Band 30			Yes	Yes			
2A-5B-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 5	5B BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
2A-5A-30A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 5			Yes	Yes			
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-5A-48C	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	Yes	70
		Band 5			Yes	Yes			
		Band 48	48C BCS 0						
2A-5A-48A-66A	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	Yes	90
		Band 5			Yes	Yes			
		Band 48			Yes	Yes	Yes	Yes	
		Band 66	Yes	Yes	Yes	Yes	Yes	Yes	

LTE Downlink Carrier Aggregation configurations (Continued)

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	
5A-46A	(0)	Band 5			Yes	Yes			30
		Band 46						Yes	
	(1)	Band 5		Yes	Yes	Yes			30
		Band 46				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 66			Yes	Yes	Yes	Yes	
12A-25A	(0)	Band 12			Yes	Yes			30
		Band 25			Yes	Yes	Yes	Yes	
12A-30A	(0)	Band 12			Yes	Yes			20
		Band 30			Yes	Yes			
12A-46A	(0)	Band 12			Yes	Yes			30
		Band 46						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			30
		Band 66			Yes	Yes	Yes	Yes	
	(3)	Band 12			Yes	Yes			20
		Band 66			Yes	Yes			
	(4)	Band 12			Yes	Yes			30
		Band 66			Yes	Yes	Yes	Yes	
	(5)	Band 12			Yes				20
		Band 66			Yes	Yes	Yes		
13A-46A	(0)	Band 13			Yes	Yes			30
		Band 46						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-30A	(0)	Band 14			Yes	Yes			20
		Band 30			Yes	Yes			
14A-66A	(0)	Band 14			Yes	Yes			30
		Band 66			Yes	Yes	Yes	Yes	
25A-41A	(0)	Band 14			Yes	Yes	Yes	Yes	40
		Band 66			Yes	Yes	Yes	Yes	
29A-30A	(0)	Band 29			Yes	Yes			20
		Band 30			Yes	Yes			
29A-66A	(0)	Band 29			Yes	Yes			30
		Band 66			Yes	Yes	Yes	Yes	
30A-66A	(0)	Band 30			Yes	Yes			30
		Band 66			Yes	Yes	Yes	Yes	
46A-48A	(0)	Band 46						Yes	40
		Band 48			Yes	Yes	Yes	Yes	
46A-66A	(0)	Band 46						Yes	40
		Band 66			Yes	Yes	Yes	Yes	
48A-66A	(0)	Band 48			Yes	Yes	Yes	Yes	40
		Band 66			Yes	Yes	Yes	Yes	
48A-71A	(0)	Band 48			Yes	Yes	Yes	Yes	40
		Band 71			Yes	Yes	Yes	Yes	
66A-71A	(0)	Band 66			Yes	Yes	Yes	Yes	40
		Band 71			Yes	Yes	Yes	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-46C	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 46	46C BCS 0						
2A-46A-48A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 46						Yes	
		Band 48			Yes	Yes	Yes	Yes	
2A-46A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 46						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-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-12A	(0)	Band 4	4A-4A BCS 0						50
		Band 12			Yes	Yes			
4A-4A-71A	(0)	Band 4	4A-4A BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
4A-12B	(0)	Band 4			Yes	Yes	Yes	Yes	35
		Band 12	12B BCS 0						
4A-46A-46A	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 46	46A-46A BCS 0						
4A-46C	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 46	46C BCS 0						
4A-48C	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 48	48C BCS 0						
5B-30A	(0)	Band 5	5B BCS 0						30
		Band 30			Yes	Yes			
5B-66A	(0)	Band 5	5B BCS 0						40
		Band 66			Yes	Yes	Yes	Yes	
5A-30A-66A	(0)	Band 5			Yes	Yes			40
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
5A-46A-66A	(0)	Band 5			Yes	Yes			50
		Band 46						Yes	
		Band 66			Yes	Yes	Yes	Yes	
5A-48C	(0)	Band 5			Yes	Yes			50
		Band 48	48C BCS 0						
5A-48A-66A	(0)	Band 5			Yes	Yes			50
		Band 46			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						
12B-66A	(0)	Band 12	12B BCS 0						35
		Band 66			Yes	Yes	Yes	Yes	
12A-30A-66A	(0)	Band 12			Yes	Yes			40
		Band 30			Yes	Yes			
		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						
12A-66C	(0)	Band 12			Yes	Yes			50
		Band 66	66C BCS 0						
14A-30A-66A	(0)	Band 14			Yes	Yes			40
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
14A-66A-66A	(0)	Band 14			Yes	Yes			50
		Band 66	66A-66A BCS 0						
25A-41C	(0)	Band 25			Yes	Yes	Yes	Yes	60
		Band 41	41C BCS 1						
29A-30A-66A	(0)	Band 29			Yes	Yes			40
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
29A-66A-66A	(0)	Band 29			Yes	Yes			50
		Band 66	66A-66A BCS 0						
30A-66A-66A	(0)	Band 30			Yes	Yes			50
		Band 66	66A-66A BCS 0						
46A-46A-66A	(0)	Band 46	46A-46A 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 BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
2A-5A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 5			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-30A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 12			Yes	Yes			
		Band 30			Yes	Yes			
		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-14A-30A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 14			Yes	Yes			
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-29A-30A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 29			Yes	Yes			
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
2A-29A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 29			Yes	Yes			
		Band 66	66A-66A BCS 0						
2A-30A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 30			Yes	Yes			
		Band 66	66A-66A BCS 0						
2A-46A-46C	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 46	46A-46C BCS 0						
2A-46D	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 46	46D BCS 0						
2A-46C-48A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 46	46C BCS 0						
		Band 48			Yes	Yes	Yes	Yes	
2A-46A-46A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 46	46A-46C BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
2A-46C-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 46	46C BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
2A-46A-48C	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 46						Yes	
		Band 48	48C BCS 0						
2A-46A-48A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 46						Yes	
		Band 48			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
2A-48A-48C	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 48	48A-48C BCS 0						
2A-48D	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 48	48D BCS 0						
2A-48A-48A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 48	48A-48A BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
2A-48C-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 48	48C BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
2A-48A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 48			Yes	Yes	Yes	Yes	
		Band 66	66A-66A 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-12B	(0)	Band 4	4A-4A BCS 0						55
		Band 12	12B BCS 0						
4A-46A-46C	(0)	Band 4			Yes	Yes	Yes	Yes	80
		Band 46	46A-46C BCS 0						
4A-46D	(0)	Band 4			Yes	Yes	Yes	Yes	80
		Band 46	46D BCS 0						
5B-30A-66A	(0)	Band 5	5B BCS 0						50
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes	Yes	
5B-66A-66A	(0)	Band 5	5B BCS 0						60
		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 BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
46A-46A-66A	(0)	Band 46	46A-46A BCS 0						60
		Band 66			Yes	Yes	Yes	Yes	
46A-48A-66A	(0)	Band 46						Yes	60
		Band 48			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
46C-66A	(0)	Band 46	46C BCS 0						60
		Band 66			Yes	Yes	Yes	Yes	
46A-66A-66A	(0)	Band 46						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-71A	(0)	Band 48	48C BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
48A-66A-66A	(0)	Band 48			Yes	Yes	Yes	Yes	60
		Band 66	66A-66A BCS 0						
48C-66A	(0)	Band 48	48C BCS 0						60
		Band 66			Yes	Yes	Yes	Yes	
66A-66A-71A	(0)	Band 66	66A-66A BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
66C-71A	(0)	Band 66	66C BCS 0						60
		Band 71			Yes	Yes	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	
5B-66A-66A	(0)	Band 5	5B BCS 0						60
		Band 66	66A-66A BCS 0						
5A-30A-66A-66A	(0)	Band 5			Yes	Yes			60
		Band 30			Yes	Yes			
		Band 66	66A-66A 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						
12A-30A-66A-66A	(0)	Band 12			Yes	Yes			60
		Band 30			Yes	Yes			
		Band 66	66A-66A BCS 0						
14A-30A-66A-66A	(0)	Band 14			Yes	Yes			60
		Band 30			Yes	Yes			
		Band 66	66A-66A BCS 0						
25A-41D	(0)	Band 25			Yes	Yes	Yes	Yes	80
		Band 41	41D BCS 0						
29A-30A-66A-66A	(0)	Band 29			Yes	Yes			60
		Band 30			Yes	Yes			
		Band 66	66A-66A BCS 0						
46A-46C-66A	(0)	Band 46	46A-46C BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
46D-66A	(0)	Band 46	46D BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
46C-48A-66A	(0)	Band 46	66C BCS 0						80
		Band 48			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
46C-66A-66A	(0)	Band 46	46C BCS 0						80
		Band 66	66A-66A BCS 0						
46A-48C-66A	(0)	Band 46						Yes	80
		Band 48	66C BCS 0						
		Band 66			Yes	Yes	Yes	Yes	
48A-48C-66A	(0)	Band 48	48A-48C BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
48A-48A-66A-66A	(0)	Band 48	48A-48C 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						
48D-66A	(0)	Band 48	48D BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	

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
			10	10, 15			
			15	15, 20			
			20	20			
	(1)	Band 7	5, 10, 15, 20	5, 10, 15, 20			40
	(2)	Band 7	5, 10, 15, 20	5, 10, 15, 20			40
	(3)	Band 7	5, 10, 15, 20	5, 10, 15, 20			40
41A-41A	(0)	Band 41	10, 15, 20	10, 15, 20			40
	(1)		5, 10, 15, 20	5, 10, 15, 20			40
46A-46A	(0)	Band 46	20	20			40
46A-46C	(0)	Band 46	20	46C BCS 0			60
		Band 46	46C BCS 0	20			
48A-48A	(0)	Band 48	5, 10, 15, 20	5, 10, 15, 20			40
48A-48C	(0)	Band 48	5, 10, 15, 20	48C BCS 0			60
	(1)	Band 48	48C BCS 0	5, 10, 15, 20			
48A-48D	(0)	Band 48	5, 10, 15, 20	48D BCS 0			80
			48D BCS 0	5, 10, 15, 20			80
48C-48C	(0)	Band 48	48C BCS 0	48C BCS 0			80
66A-66A	(0)	Band 66	5, 10, 15, 20	5, 10, 15, 20			40
66A-66A-66A	(0)	Band 66	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		60
66A-66B	(0)	Band 66	5, 10, 15, 20	66B BCS0			40
			66B BCS0	5, 10, 15, 20			40
66A-66C	(0)	Band 66	5, 10, 15, 20	66C BCS0			60
			66C BCS0	5, 10, 15, 20			60

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
			10	10, 15			
			15	15, 20			
			20	20			
	(1)	Band 7	5, 10, 15, 20	5, 10, 15, 20			40
	(2)	Band 7	5, 10, 15, 20	5, 10, 15, 20			40
	(3)	Band 7	5, 10, 15, 20	5, 10, 15, 20			40
41A-41A	(0)	Band 41	10, 15, 20	10, 15, 20			40
	(1)		5, 10, 15, 20	5, 10, 15, 20			40
46A-46A	(0)	Band 46	20	20			40
46A-46C	(0)	Band 46	20	46C BCS 0			60
		Band 46	46C BCS 0	20			
48A-48A	(0)	Band 48	5, 10, 15, 20	5, 10, 15, 20			40
48A-48C	(0)	Band 48	5, 10, 15, 20	48C BCS 0			60
	(1)	Band 48	48C BCS 0	5, 10, 15, 20			
48A-48D	(0)	Band 48	5, 10, 15, 20	48D BCS 0			80
			48D BCS 0	5, 10, 15, 20			80
48C-48C	(0)	Band 48	48C BCS 0	48C BCS 0			80
66A-66A	(0)	Band 66	5, 10, 15, 20	5, 10, 15, 20			40
66A-66A-66A	(0)	Band 66	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		60
66A-66B	(0)	Band 66	5, 10, 15, 20	66B BCS0			40
			66B BCS0	5, 10, 15, 20			40
66A-66C	(0)	Band 66	5, 10, 15, 20	66C BCS0			60
			66C BCS0	5, 10, 15, 20			60

4. DL Intra Band(contiguous)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Allowed Channel BW Per Carrier (MHz)					Max Aggregated BW
			1st Carrier	2nd Carrier	3rd Carrier	4th Carrier	5th Carrier	
2C	(0)	Band 2	5	20				40
			10	15, 20				
			15	10,15, 20				
			20	5, 10, 15, 20				
5B	(0)	Band 5	5, 10	10				20
			10	5				
	(1)	Band 5	3	5				8
			5	3				
12B	(0)	Band 12	5, 10	5				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				
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			
46C	(0)	Band 46	20	20				40
	(1)	Band 46	20	10, 20				40
			10, 20	20				
46D	(0)	Band 46	20	20	20			60
	(1)	Band 46	20	20	10, 20			60
			10, 20	20	20			
48B	(0)	Band 48	10	10				20
48C	(0)	Band 48	5, 10, 15, 20	20				40
			20	5, 10, 15				
48D	(0)	Band 48	5, 10, 15, 20	20	20			60
			20	20	5,10,15			
66B	(0)	Band 66	5	5, 10, 15				20
		Band 66	10	5, 10				
		Band 66	15	5				
66C	(0)	Band 66	5	20				40
		Band 66	10	15,20				
		Band 66	15	10,15,20				
		Band 66	20	5,10,15,20				

LTE Uplink / Downlink Carrier Aggregation Intra-band configurations

6 UL Intra Band(contiguous)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Allowed Channel BW Per Carrier (MHz)					Max Aggregated BW
			1st Carrier	2nd Carrier	3rd Carrier	4th Carrier	5th Carrier	
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				

Note:

LTE CA_48C 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.

E-UTRA CA configurations	RF exposure conditions	Bands		UL																	LTE Rel.8 Tune-up Limit (dBm)
		PCC	SCC	PCC						SCC						MPR	PCC + SCC				
		1st	2nd	Mod	RB	Offset	BW	Freq	Ch	Mod	RB	Offset	BW	Freq	Ch		Aggregated BW	Tune-up Limit (dBm)	CA power (total PCC+SCC) (dBm)	3GPP Rel.#	
CA_41C (0)(1)(2)(3)	Head	41C	41C	QPSK	1	0	20	2636.5	41055	QPSK	1	99	20	2616.7	40857	0	40	24.00	23.50	16	20.50
CA_41C (0)(1)(2)(3)	Body Worn	41C	41C	QPSK	1	0	20	2636.5	41055	QPSK	1	99	20	2616.7	40857	0	40	24.00	23.50	16	20.50
CA_41C (0)(1)(2)(3)	Hotspot	41C	41C	QPSK	1	0	20	2636.5	41055	QPSK	1	99	20	2616.7	40857	0	40	22.00	21.65	16	20.50
CA_48C (0)	Head	48C	48C	QPSK	50	0	20	56296	3636.7	QPSK	50	50	20	3626.9	56009	0	40	21.50	18.55	16	20.50
CA_48C (0)	Body Worn & Hotspot	48C	48C	QPSK	1	0	20	56207	3646.7	QPSK	1	99	20	3626.9	56009	0	40	22.00	20.41	16	21.00

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		3CC#1
2CC#2	2C		3CC#9
2CC#3	2A-4A		3CC#1
2CC#4	2A-5A		3CC#2
2CC#5	2A-7A		
2CC#6	2A-12A		3CC#3
2CC#7	2A-13A		3CC#24
2CC#8	2A-14A		3CC#4
2CC#9	2A-29A	B29 SCC only	3CC#27
2CC#10	2A-30A		3CC#6
2CC#11	2A-46A	B46 SCC only	3CC#7
2CC#12	2A-48A	B48 SCC only	3CC#34
2CC#13	2A-66A		3CC#8
2CC#14	2A-71A		3CC#10
2CC#15	4A-4A		3CC#11
2CC#16	4A-5A		3CC#12
2CC#17	4A-12A		3CC#13
2CC#18	4A-13A		3CC#14
2CC#19	4A-46A	B46 SCC only	3CC#44
2CC#20	4A-48A	B48 SCC only	
2CC#21	4A-71A		3CC#15
2CC#22	5B		3CC#47
2CC#23	5A-25A		
2CC#24	5A-30A		3CC#17
2CC#25	5A-46A	B46 SCC only	3CC#18
2CC#26	5A-48A	B48 SCC only	3CC#19
2CC#27	5A-66A		3CC#20
2CC#28	12B		2A-12B
2CC#29	12A-25A		
2CC#30	12A-30A		3CC#22
2CC#31	12A-46A	B46 SCC only	
2CC#32	12A-48A	B48 SCC only	
2CC#33	12A-66A		3CC#23
2CC#34	13A-46A	B46 SCC only	
2CC#35	13A-48A	B48 SCC only	

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#1	2A-2A-4A		4CC#1
3CC#2	2A-2A-5A		4CC#2
3CC#3	2A-2A-12A		4CC#3
3CC#4	2A-2A-14A		4CC#11
3CC#5	2A-2A-29A	B29 SCC only	4CC#13
3CC#6	2A-2A-30A		4CC#6
3CC#7	2A-2A-46A	B46 SCC only	
3CC#8	2A-2A-66A		4CC#7
3CC#9	2C-66A		4CC#19
3CC#10	2A-2A-71A		4CC#4
3CC#11	2A-4A-4A		4CC#1
3CC#12	2A-4A-5A		4CC#2
3CC#13	2A-4A-12A		4CC#3
3CC#14	2A-4A-13A		
3CC#15	2A-4A-71A		4CC#4
3CC#16	2A-5B		4CC#24
3CC#17	2A-5A-30A		4CC#6
3CC#18	2A-5A-46A	B46 SCC only	
3CC#19	2A-5A-48A	B48 SCC only	4CC#28
3CC#20	2A-5A-66A		4CC#7
3CC#21	2A-12B		4CC#8
3CC#22	2A-12A-30A		4CC#9
3CC#23	2A-12A-66A		4CC#10
3CC#24	2A-13A-66A		
3CC#25	2A-14A-30A		4CC#11
3CC#26	2A-14A-66A		4CC#12
3CC#27	2A-29A-30A	B29 SCC only	4CC#13
3CC#28	2A-29A-66A	B29 SCC only	4CC#14
3CC#29	2A-30A-66A		4CC#15
3CC#30	2A-46A-46A	B46 SCC only	4CC#42
3CC#31	2A-46C	B46 SCC only	4CC#16
3CC#32	2A-46A-48A	B46/B48 SCC only	4CC#45
3CC#33	2A-46A-66A	B46 SCC only	4CC#42
3CC#34	2A-48A-48A	B48 SCC only	4CC#48
3CC#35	2A-48C	B48 SCC only	4CC#27

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-30A		
4CC#7	2A-2A-5A-66A		
4CC#8	2A-2A-12B		
4CC#9	2A-2A-12A-30A		
4CC#10	2A-2A-12A-66A		
4CC#11	2A-2A-14A-30A		
4CC#12	2A-2A-14A-66A		
4CC#13	2A-2A-29A-30A	B29 SCC only	
4CC#14	2A-2A-29A-66A	B29 SCC only	
4CC#15	2A-2A-30A-66A		
4CC#16	2A-2A-46C	B46 SCC only	
4CC#17	2A-2A-66A-66A		
4CC#18	2A-2A-66C		
4CC#19	2C-66A-66A		
4CC#20	2A-2A-66A-71A		
4CC#21	2A-4A-4A-5A		
4CC#22	2A-4A-4A-12A		
4CC#23	2A-4A-12B		
4CC#24	2A-5B-30A		
4CC#25	2A-5B-66A		
4CC#26	2A-5A-30A-66A		
4CC#27	2A-5A-48C	B48 SCC only	
4CC#28	2A-5A-48A-66A	B48 SCC only	
4CC#29	2A-5A-66A-66A		
4CC#30	2A-12B-66A		
4CC#31	2A-12A-30A-66A		
4CC#32	2A-12A-66A-66A		
4CC#33	2A-12A-66C		
4CC#34	2A-14A-30A-66A		
4CC#35	2A-14A-66A-66A		

Note:

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

LTE Release 10 Carrier Aggregation (Continued)

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#36	13A-66A		3CC#24
2CC#37	14A-30A		3CC#25
2CC#38	14A-66A		3CC#26
2CC#39	25A-25A		
2CC#40	25A-41A	B41 SCC only	
2CC#41	29A-30A	B29 SCC only	3CC#27
2CC#42	29A-66A	B29 SCC only	3CC#28
2CC#43	30A-66A		3CC#29
2CC#44	41A-41A		
2CC#45	41C		3CC#65
2CC#46	46A-48A	B46 SCC only	3CC#68
2CC#47	46A-66A	B46 SCC only	3CC#50
2CC#48	48A-48A		
2CC#49	48B		
2CC#50	48C		3CC#51
2CC#51	48A-66A	B48 SCC only	3CC#52
2CC#52	48A-71A	B48 SCC only	
2CC#53	66A-66A		3CC#53
2CC#54	66B		
2CC#55	66C		3CC#58
2CC#56	66A-71A		4CC#20

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#36	2A-48A-66A	B48 SCC only	4CC#50
3CC#37	2A-66A-66A		4CC#17
3CC#38	2A-66C		4CC#18
3CC#39	2A-66A-71A		4CC#20
3CC#40	4A-4A-5A		4CC#21
3CC#41	4A-4A-12A		4CC#22
3CC#42	4A-4A-71A		
3CC#43	4A-12B		4CC#23
3CC#44	4A-46A-46A	B46 SCC only	
3CC#45	4A-46C	B46 SCC only	4CC#54
3CC#46	4A-48C	B48 SCC only	
3CC#47	5B-30A		4CC#24
3CC#48	5B-66A		4CC#25
3CC#49	5A-30A-66A		4CC#26
3CC#50	5A-46A-66A	B46 SCC only	
3CC#51	5A-48C	B48 SCC only	4CC#27
3CC#52	5A-48A-66A	B48 SCC only	4CC#28
3CC#53	5A-66A-66A		4CC#29
3CC#54	12B-66A		4CC#30
3CC#55	12A-30A-66A		4CC#31
3CC#56	12A-48C	B48 SCC only	
3CC#57	12A-66A-66A		4CC#32
3CC#58	12A-66C		4CC#33
3CC#59	14A-30A-66A		4CC#62
3CC#60	14A-66A-66A		4CC#35
3CC#61	25A-41C	B41 SCC only	
3CC#62	29A-30A-66A	B29 SCC only	4CC#36
3CC#63	29A-66A-66A	B29 SCC only	4CC#37
3CC#64	30A-66A-66A		4CC#38
3CC#65	41A-41C		
3CC#66	41D		
3CC#67	46A-46A-66A	B46 SCC only	4CC#42
3CC#68	46A-48A-66A	B46/B48 SCC only	4CC#45
3CC#69	46C-66A	B46 SCC only	4CC#67
3CC#70	46A-66A-66A	B46 SCC only	
3CC#71	48A-48C		
3CC#72	48D		4CC#70
3CC#73	48A-48A-66A	B48 SCC only	4CC#48
3CC#74	48C-71A	B48 SCC only	4CC#71
3CC#75	48A-66A-66A	B48 SCC only	4CC#50
3CC#76	48C-66A	B48 SCC only	4CC#49
3CC#77	66A-66A-66A		

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#36	2A-29A-30A-66A	B29 SCC only	
4CC#37	2A-29A-66A-66A	B29 SCC only	
4CC#38	2A-30A-66A-66A		
4CC#39	2A-46A-46C	B46 SCC only	
4CC#40	2A-46D	B46 SCC only	
4CC#41	2A-46C-48A	B46/B48 SCC only	
4CC#42	2A-46A-46A-66A	B46 SCC only	
4CC#43	2A-46C-66A	B46 SCC only	
4CC#44	2A-46A-48C	B46/B48 SCC only	
4CC#45	2A-46A-48A-66A	B46/B48 SCC only	
4CC#46	2A-48A-48C	B48 SCC only	
4CC#47	2A-48D	B48 SCC only	
4CC#48	2A-48A-48A-66A	B48 SCC only	
4CC#49	2A-48C-66A	B48 SCC only	
4CC#50	2A-48A-66A-66A	B48 SCC only	
4CC#51	2A-66A-66A-71A		
4CC#52	2A-66C-71A		
4CC#53	4A-4A-12B		
4CC#54	4A-46A-46C	B46 SCC only	
4CC#55	4A-46D	B46 SCC only	
4CC#56	5B-30A-66A		
4CC#57	5B-66A-66A		
4CC#58	5A-30A-66A-66A		
4CC#59	5A-48C-66A	B48 SCC only	
4CC#60	5A-48A-66A-66A	B48 SCC only	
4CC#61	12A-30A-66A-66A		
4CC#62	14A-30A-66A-66A		
4CC#63	25A-41D	B41 SCC only	
4CC#64	29A-30A-66A-66A	B29 SCC only	
4CC#65	46A-46C-66A	B46 SCC only	
4CC#66	46D-66A	B46 SCC only	
4CC#67	46C-48A-66A	B46/B48 SCC only	
4CC#68	46C-66A-66A	B46 SCC only	
4CC#69	46A-48C-66A	B46/B48 SCC only	
4CC#70	48A-48D		
4CC#71	48C-48C		
4CC#72	48E		
4CC#73	48A-48C-66A	B48 SCC only	
4CC#74	48A-48A-66A-66A	B48 SCC only	
4CC#75	48C-66A-66A	B48 SCC only	
4CC#76	48D-66A	B48 SCC only	

Note:

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

LTE Release 10 Carrier Aggregation with 4x4 MIMO

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#1	[2A]-2A		3CC#2
2CC#2	[2A]-[2A]		3CC#6
2CC#3	[2C]		3CC#27
2CC#4	2A-[4A]		3CC#4
2CC#5	[2A]-4A		3CC#6
2CC#6	[2A]-[4A]		3CC#4
2CC#7	[2A]-5A		3CC#8
2CC#8	[2A]-7A		
2CC#9	[2A]-12A		3CC#10
2CC#10	[2A]-13A		3CC#46
2CC#11	[2A]-14A		3CC#13
2CC#12	[2A]-29A	B29 SCC only	3CC#15
2CC#13	[2A]-30A		3CC#16
2CC#14	[2A]-46A	B46 SCC only	3CC#20
2CC#15	2A-[48A]		3CC#54
2CC#16	[2A]-48A		3CC#55
2CC#17	[2A]-[48A]		3CC#56
2CC#18	2A-[66A]		3CC#21
2CC#19	[2A]-66A		3CC#22
2CC#20	[2A]-[66A]		3CC#23
2CC#21	[2A]-71A		3CC#29
2CC#22	[4A]-4A		3CC#32
2CC#23	[4A]-[4A]		3CC#35
2CC#24	[4A]-5A		3CC#39
2CC#25	[4A]-12A		3CC#42
2CC#26	[4A]-13A	B48 SCC only	3CC#45
2CC#27	[4A]-46A	B46 SCC only	3CC#121
2CC#28	4A-[48A]	B48 SCC only	
2CC#29	[4A]-48A	B48 SCC only	
2CC#30	[4A]-[48A]	B48 SCC only	
2CC#31	[4A]-71A		3CC#48
2CC#32	5A-[25A]		
2CC#33	5A-[48A]	B48 SCC only	3CC#56
2CC#34	5A-[66A]		3CC#57
2CC#35	12A-[25A]		
2CC#36	12A-[48A]	B48 SCC only	
2CC#37	12A-[66A]		3CC#64
2CC#38	13A-[48A]	B48 SCC only	
2CC#39	13A-[66A]		3CC#67
2CC#40	14A-[66A]		3CC#69

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#1	2A-2A-[4A]		4CC#1
3CC#2	2A-[2A]-4A		4CC#2
3CC#3	p		4CC#4
3CC#4	[2A]-[2A]-4A		4CC#5
3CC#5	[2A]-[2A]-[4A]		
3CC#6	[2A]-2A-5A		4CC#8
3CC#7	[2A]-[2A]-5A		4CC#9
3CC#8	[2A]-2A-12A		4CC#12
3CC#9	[2A]-[2A]-12A		4CC#13
3CC#10	[2A]-2A-14A		4CC#35
3CC#11	[2A]-[2A]-14A		4CC#36
3CC#12	[2A]-2A-29A	B29 SCC only	4CC#44
3CC#13	[2A]-[2A]-29A	B29 SCC only	4CC#46
3CC#14	[2A]-2A-30A		4CC#48
3CC#15	[2A]-[2A]-30A		4CC#50
3CC#16	2A-[2A]-46A	B46 SCC only	
3CC#17	[2A]-[2A]-46A	B46 SCC only	
3CC#18	2A-2A-[66A]		4CC#47
3CC#19	[2A]-2A-66A		4CC#48
3CC#20	[2A]-2A-[66A]		4CC#49
3CC#21	[2A]-[2A]-66A		4CC#50
3CC#22	[2A]-[2A]-[66A]		
3CC#23	2C-[66A]		4CC#67
3CC#24	[2C]-66A		4CC#68
3CC#25	[2C]-[66A]		4CC#69
3CC#26	2A-[2A]-71A		4CC#16
3CC#27	[2A]-2A-71A		4CC#16
3CC#28	[2A]-[2A]-71A		4CC#17
3CC#29	2A-4A-[4A]		4CC#4
3CC#30	[2A]-4A-4A		4CC#5
3CC#31	2A-[4A]-[4A]		4CC#3
3CC#32	[2A]-4A-[4A]		4CC#4
3CC#33	[2A]-[4A]-[4A]		
3CC#34	2A-[4A]-5A		4CC#6
3CC#35	[2A]-4A-5A		4CC#7
3CC#36	[2A]-[4A]-5A		4CC#8
3CC#37	2A-[4A]-12A		4CC#10
3CC#38	[2A]-4A-12A		4CC#11
3CC#39	[2A]-[4A]-12A		4CC#12
3CC#40	2A-[4A]-13A		

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-30A		
4CC#21	[2A]-[2A]-5A-30A		
4CC#22	2A-2A-5A-[66A]		
4CC#23	[2A]-2A-5A-66A		
4CC#24	[2A]-2A-5A-[66A]		
4CC#25	[2A]-[2A]-5A-66A		
4CC#26	[2A]-2A-12B		
4CC#27	[2A]-[2A]-12B		
4CC#28	[2A]-2A-12A-30A		
4CC#29	[2A]-[2A]-12A-30A		
4CC#30	2A-2A-12A-[66A]		
4CC#31	[2A]-2A-12A-66A		
4CC#32	[2A]-2A-12A-[66A]		
4CC#33	[2A]-[2A]-12A-66A		
4CC#34	[2A]-2A-14A-30A		
4CC#35	[2A]-[2A]-14A-30A		
4CC#36	2A-2A-14A-[66A]		
4CC#37	[2A]-2A-14A-66A		
4CC#38	[2A]-2A-14A-[66A]		
4CC#39	[2A]-[2A]-14A-66A		
4CC#40	[2A]-2A-29A-30A	B29 SCC only	

Note:

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

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

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#41	25A-[25A]		
2CC#42	[25A]-[25A]		
2CC#43	25A-[41A]	B41 SCC only	
2CC#44	[25A]-41A	B41 SCC only	
2CC#45	[25A]-[41A]	B41 SCC only	
2CC#46	29A-[66A]		3CC#75
2CC#47	30A-[66A]		3CC#78
2CC#48	41A-[41A]		
2CC#49	[41A]-[41A]		
2CC#50	[41C]		3CC#148
2CC#51	46A-[48A]	B46 SCC only	3CC#83
2CC#52	46A-[66A]	B46 SCC only	3CC#86
2CC#53	[48A]-48A		
2CC#54	[48A]-[48A]		
2CC#55	[48B]		
2CC#56	[48C]		3CC#158
2CC#57	[48A]-66A	B48 SCC only	3CC#100
2CC#58	48A-[66A]	B48 SCC only	3CC#99
2CC#59	[48A]-[66A]	B48 SCC only	3CC#101
2CC#60	[48A]-71A	B48 SCC only	
2CC#61	66A-[66A]		3CC#133
2CC#62	[66A]-66A		3CC#134
2CC#63	[66A]-[66A]		3CC#135
2CC#64	[66B]		
2CC#65	[66C]		3CC#142
2CC#66	[66A]-71A		3CC#185

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#41	[2A]-4A-13A		
3CC#42	[2A]-[4A]-13A		
3CC#43	2A-[4A]-71A		4CC#14
3CC#44	[2A]-4A-71A		4CC#15
3CC#45	[2A]-[4A]-71A		4CC#16
3CC#46	[2A]-5B		4CC#18
3CC#47	[2A]-5A-30A		4CC#20
3CC#48	[2A]-5A-46A	B46 SCC only	
3CC#49	2A-5A-[48A]	B48 SCC only	4CC#97
3CC#50	[2A]-5A-48A	B48 SCC only	4CC#98
3CC#51	[2A]-5A-[48A]	B48 SCC only	4CC#101
3CC#52	2A-5A-[66A]		4CC#102
3CC#53	[2A]-5A-66A		4CC#103
3CC#54	[2A]-5A-[66A]		4CC#105
3CC#55	[2A]-12B		4CC#107
3CC#56	[2A]-12A-30A		4CC#110
3CC#57	2A-12A-[66A]		4CC#112
3CC#58	[2A]-12A-66A		4CC#113
3CC#59	[2A]-12A-[66A]		4CC#114
3CC#60	2A-13A-[66A]		
3CC#61	[2A]-13A-66A		
3CC#62	[2A]-13A-[66A]		
3CC#63	[2A]-14A-30A		4CC#118
3CC#64	2A-14A-[66A]		4CC#120
3CC#65	[2A]-14A-66A		4CC#118
3CC#66	[2A]-14A-[66A]		4CC#119
3CC#67	[2A]-29A-30A	B29 SCC only	4CC#125
3CC#68	2A-29A-[66A]	B29 SCC only	4CC#127
3CC#69	[2A]-29A-66A	B29 SCC only	4CC#128
3CC#70	[2A]-29A-[66A]	B29 SCC only	4CC#130
3CC#71	2A-30A-[66A]		4CC#131
3CC#72	[2A]-30A-66A		4CC#132
3CC#73	[2A]-30A-[66A]		4CC#134
3CC#74	[2A]-46A-46A	B46 SCC only	4CC#141
3CC#75	[2A]-46C	B46 SCC only	4CC#135
3CC#76	2A-46A-[48A]	346/B48 SCC onl	4CC#149
3CC#77	[2A]-46A-48A	346/B48 SCC onl	4CC#150
3CC#78	[2A]-46A-[48A]	346/B48 SCC onl	4CC#153
3CC#79	2A-46A-[66A]	B46 SCC only	4CC#148
3CC#80	[2A]-46A-66A	B46 SCC only	4CC#150

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#41	[2A]-[2A]-29A-30A	B29 SCC only	
4CC#42	2A-2A-29A-[66A]	B29 SCC only	
4CC#43	[2A]-2A-29A-66A	B29 SCC only	
4CC#44	[2A]-2A-29A-[66A]	B29 SCC only	
4CC#45	[2A]-[2A]-29A-66A	B29 SCC only	
4CC#46	2A-2A-30A-[66A]		
4CC#47	[2A]-2A-30A-66A		
4CC#48	[2A]-2A-30A-[66A]		
4CC#49	[2A]-[2A]-30A-66A		
4CC#50	2A-[2A]-46C	B46 SCC only	
4CC#51	[2A]-[2A]-46C	B46 SCC only	
4CC#52	2A-2A-66A-[66A]		
4CC#53	2A-[2A]-66A-66A		
4CC#54	2A-2A-[66A]-[66A]		
4CC#55	2A-[2A]-66A-[66A]		
4CC#56	[2A]-[2A]-66A-66A		
4CC#57	2A-2A-[66C]		
4CC#58	[2A]-2A-66C		
4CC#59	[2A]-[2A]-66C		
4CC#60	2C-[66A]-66A		
4CC#61	[2C]-66A-66A		
4CC#62	2C-[66A]-[66A]		
4CC#63	2A-2A-[66A]-71A		
4CC#64	2A-[2A]-66A-71A		
4CC#65	2A-[2A]-[66A]-71A		
4CC#66	[2A]-[2A]-66A-71A		
4CC#67	2A-[4A]-4A-5A		
4CC#68	[2A]-4A-4A-5A		
4CC#69	2A-[4A]-[4A]-5A		
4CC#70	[2A]-[4A]-4A-5A		
4CC#71	2A-[4A]-4A-12A		
4CC#72	[2A]-4A-4A-12A		
4CC#73	2A-[4A]-[4A]-12A		
4CC#74	[2A]-[4A]-4A-12A		
4CC#75	2A-[4A]-12B		
4CC#76	[2A]-4A-12B		
4CC#77	[2A]-[4A]-12B		
4CC#78	[2A]-5B-30A		
4CC#79	2A-5B-[66A]		
4CC#80	[2A]-5B-66A		

Note:

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

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

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#81	[2A]-46A-[66A]	B46 SCC only	4CC#152
3CC#82	2A-[48A]-48A	B48 SCC only	4CC#160
3CC#83	[2A]-48A-48A	B48 SCC only	4CC#161
3CC#84	2A-[48A]-[48A]	B48 SCC only	4CC#164
3CC#85	[2A]-[48A]-48A	B48 SCC only	4CC#165
3CC#86	[2A]-[48A]-[48A]	B48 SCC only	
3CC#87	2A-[48C]	B48 SCC only	4CC#146
3CC#88	[2A]-48C	B48 SCC only	4CC#147
3CC#89	[2A]-[48C]	B48 SCC only	
3CC#90	2A-48A-[66A]	B48 SCC only	4CC#96
3CC#91	2A-[48A]-66A	B48 SCC only	4CC#97
3CC#92	[2A]-48A-66A	B48 SCC only	4CC#98
3CC#93	2A-[48A]-[66A]	B48 SCC only	4CC#99
3CC#94	[2A]-48A-[66A]	B48 SCC only	4CC#100
3CC#95	[2A]-[48A]-66A	B48 SCC only	4CC#101
3CC#96	[2A]-[48A]-[66A]	B48 SCC only	
3CC#97	2A-[66A]-66A		4CC#102
3CC#98	[2A]-66A-66A		4CC#103
3CC#99	2A-[66A]-[66A]		4CC#104
3CC#100	[2A]-[66A]-66A		4CC#105
3CC#101	[2A]-[66A]-[66A]		
3CC#102	2A-[66C]		4CC#115
3CC#103	[2A]-66C		4CC#116
3CC#104	[2A]-[66C]		
3CC#105	2A-[66A]-71A		4CC#178
3CC#106	[2A]-66A-71A		4CC#179
3CC#107	[2A]-[66A]-71A		4CC#181
3CC#108	[4A]-4A-5A		4CC#79
3CC#109	[4A]-[4A]-5A		4CC#78
3CC#110	[4A]-4A-12A		4CC#76
3CC#111	[4A]-[4A]-12A		4CC#82
3CC#112	4A-[4A]-71A		
3CC#113	[4A]-[4A]-71A		
3CC#114	[4A]-12B		4CC#186
3CC#115	[4A]-46A-46A	B46 SCC only	
3CC#116	[4A]-46C	B46 SCC only	4CC#187
3CC#117	4A-[48C]	B48 SCC only	
3CC#118	[4A]-48C	B48 SCC only	
3CC#119	[4A]-[48C]	B48 SCC only	
3CC#120	5B-[66A]		4CC#189
3CC#121	5A-30A-[66A]		4CC#192
3CC#122	5A-46A-[66A]	B46 SCC only	
3CC#123	5A-[48C]	B48 SCC only	4CC#195
3CC#124	5A-48A-[66A]	B48 SCC only	4CC#196
3CC#125	5A-[48A]-66A	B48 SCC only	4CC#97
3CC#126	5A-[48A]-[66A]	B48 SCC only	4CC#99
3CC#127	5A-66A-[66A]		4CC#196
3CC#128	5A-[66A]-[66A]		4CC#198
3CC#129	12B-[66A]		4CC#106
3CC#130	12A-30A-[66A]		4CC#109
3CC#131	12A-[48C]	B48 SCC only	
3CC#132	12A-66A-[66A]		
3CC#133	12A-[66A]-[66A]		
3CC#134	12A-[66C]		4CC#115
3CC#135	14A-30A-[66A]		4CC#117
3CC#136	14A-[66A]-66A		4CC#120
3CC#137	14A-[66A]-[66A]		4CC#122
3CC#138	25A-[41C]	B41 SCC only	
3CC#139	[25A]-41C	B41 SCC only	
3CC#140	[25A]-[41C]	B41 SCC only	

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#81	[2A]-5B-[66A]		
4CC#82	2A-5A-30A-[66A]		
4CC#83	[2A]-5A-30A-66A		
4CC#84	[2A]-5A-30A-[66A]		
4CC#85	2A-5A-[48C]	B48 SCC only	
4CC#86	[2A]-5A-48C	B48 SCC only	
4CC#87	2A-5A-48A-[66A]	B48 SCC only	
4CC#88	2A-5A-[48A]-66A	B48 SCC only	
4CC#89	[2A]-5A-48A-66A	B48 SCC only	
4CC#90	2A-5A-[48A]-[66A]	B48 SCC only	
4CC#91	[2A]-5A-48A-[66A]	B48 SCC only	
4CC#92	[2A]-5A-[48A]-66A	B48 SCC only	
4CC#93	2A-5A-[66A]-66A		
4CC#94	[2A]-5A-66A-66A		
4CC#95	2A-5A-[66A]-[66A]		
4CC#96	[2A]-5A-[66A]-66A		
4CC#97	2A-12B-[66A]		
4CC#98	[2A]-12B-66A		
4CC#99	[2A]-12B-[66A]		
4CC#100	2A-12A-30A-[66A]		
4CC#101	[2A]-12A-30A-66A		
4CC#102	[2A]-12A-30A-[66A]		
4CC#103	2A-12A-[66A]-66A		
4CC#104	[2A]-12A-66A-66A		
4CC#105	[2A]-12A-[66A]-66A		
4CC#106	2A-12A-[66C]		
4CC#107	[2A]-12A-66C		
4CC#108	2A-14A-30A-[66A]		
4CC#109	[2A]-14A-30A-66A		
4CC#110	[2A]-14A-30A-[66A]		
4CC#111	2A-14A-[66A]-66A		
4CC#112	[2A]-14A-66A-66A		
4CC#113	2A-14A-[66A]-[66A]		
4CC#114	[2A]-14A-[66A]-66A		
4CC#115	2A-29A-30A-[66A]	B29 SCC only	
4CC#116	[2A]-29A-30A-66A	B29 SCC only	
4CC#117	[2A]-29A-30A-[66A]	B29 SCC only	
4CC#118	2A-29A-[66A]-66A	B29 SCC only	
4CC#119	[2A]-29A-66A-66A	B29 SCC only	
4CC#120	2A-29A-[66A]-[66A]	B29 SCC only	
4CC#121	[2A]-29A-[66A]-66A	B29 SCC only	
4CC#122	2A-30A-[66A]-66A		
4CC#123	[2A]-30A-66A-66A		
4CC#124	2A-30A-[66A]-[66A]		
4CC#125	[2A]-30A-[66A]-66A		
4CC#126	[2A]-46A-46C	B46 SCC only	
4CC#127	[2A]-46D	B46 SCC only	
4CC#128	2A-46C-[48A]	B46/B48 SCC only	
4CC#129	[2A]-46C-48A	B46/B48 SCC only	
4CC#130	[2A]-46C-[48A]	B46/B48 SCC only	
4CC#131	2A-46A-46A-[66A]	B46 SCC only	
4CC#132	[2A]-46A-46A-66A	B46 SCC only	
4CC#133	[2A]-46A-46A-[66A]	B46 SCC only	
4CC#134	2A-46C-[66A]	B46 SCC only	
4CC#135	[2A]-46C-66A	B46 SCC only	
4CC#136	[2A]-46C-[66A]	B46 SCC only	
4CC#137	2A-46A-[48C]	B46/B48 SCC only	
4CC#138	[2A]-46A-48C	B46/B48 SCC only	
4CC#139	2A-46A-48A-[66A]	B46/B48 SCC only	
4CC#140	2A-46A-[48A]-66A	B46/B48 SCC only	

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#141	29A-30A-[66A]	B29 SCC only	4CC#124
3CC#142	29A-[66A]-66A	B29 SCC only	4CC#127
3CC#143	29A-[66A]-[66A]	B29 SCC only	4CC#129
3CC#144	30A-[66A]-66A		4CC#131
3CC#145	30A-[66A]-[66A]		4CC#133
3CC#146	41A-[41C]		
3CC#147	[41A]-41C		
3CC#148	[41A]-[41C]		
3CC#149	[41D]		
3CC#150	46A-46A-[66A]	B46 SCC only	4CC#140
3CC#151	46A-[48A]-66A	B46/B48 SCC only	4CC#149
3CC#152	46A-48A-[66A]	B46/B48 SCC only	4CC#148
3CC#153	46A-[48A]-[66A]	B46/B48 SCC only	4CC#151
3CC#154	46C-[66A]	B46 SCC only	4CC#206
3CC#155	46A-66A-[66A]	B46 SCC only	
3CC#156	46A-[66A]-[66A]	B46 SCC only	
3CC#157	48A-[48C]		
3CC#158	[48A]-48C		
3CC#159	[48A]-[48C]		
3CC#160	[48D]		
3CC#161	[48A]-48A-66A	B48 SCC only	4CC#160
3CC#162	48A-48A-[66A]	B48 SCC only	4CC#163
3CC#163	[48A]-[48A]-66A	B48 SCC only	4CC#164
3CC#164	[48A]-48A-[66A]	B48 SCC only	4CC#225
3CC#165	[48A]-[48A]-[66A]	B48 SCC only	
3CC#166	[48C]-71A	B48 SCC only	
3CC#167	[48A]-66A-66A	B48 SCC only	4CC#172
3CC#168	48A-[66A]-66A	B48 SCC only	4CC#170
3CC#169	[48A]-[66A]-66A	B48 SCC only	4CC#173
3CC#170	48A-[66A]-[66A]	B48 SCC only	4CC#171
3CC#171	[48A]-[66A]-[66A]	B48 SCC only	
3CC#172	[48C]-66A	B48 SCC only	4CC#167
3CC#173	48C-[66A]	B48 SCC only	4CC#169
3CC#174	[48C]-[66A]	B48 SCC only	
3CC#175	[66A]-66A-71A		4CC#178
3CC#176	[66A]-[66A]-71A		4CC#180
3CC#177	[66C]-71A		4CC#183

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#141	[2A]-46A-48A-66A	B46/B48 SCC only	
4CC#142	2A-46A-[48A]-[66A]	B46/B48 SCC only	
4CC#143	[2A]-46A-48A-[66A]	B46/B48 SCC only	
4CC#144	[2A]-46A-[48A]-66A	B46/B48 SCC only	
4CC#145	2A-48A-[48C]	B48 SCC only	
4CC#146	2A-[48A]-48C	B48 SCC only	
4CC#147	[2A]-48A-48C	B48 SCC only	
4CC#148	[2A]-[48A]-48C	B48 SCC only	
4CC#149	[2A]-48D	B48 SCC only	
4CC#150	2A-48A-48A-[66A]	B48 SCC only	
4CC#151	2A-[48A]-48A-66A	B48 SCC only	
4CC#152	[2A]-48A-48A-66A	B48 SCC only	
4CC#153	2A-[48A]-48A-[66A]	B48 SCC only	
4CC#154	[2A]-48A-48A-[66A]	B48 SCC only	
4CC#155	2A-[48A]-[48A]-66A	B48 SCC only	
4CC#156	[2A]-[48A]-48A-66A	B48 SCC only	
4CC#157	2A-48C-[66A]	B48 SCC only	
4CC#158	2A-[48C]-66A	B48 SCC only	
4CC#159	[2A]-48C-66A	B48 SCC only	
4CC#160	[2A]-48C-[66A]	B48 SCC only	
4CC#161	2A-48A-[66A]-66A	B48 SCC only	
4CC#162	2A-48A-[66A]-[66A]	B48 SCC only	
4CC#163	2A-[48A]-66A-66A	B48 SCC only	
4CC#164	2A-[48A]-66A-[66A]	B48 SCC only	
4CC#165	[2A]-48A-66A-66A	B48 SCC only	
4CC#166	[2A]-[48A]-66A-66A	B48 SCC only	
4CC#167	[2A]-48A-[66A]-66A	B48 SCC only	
4CC#168	2A-66A-[66A]-71A		
4CC#169	[2A]-66A-66A-71A		
4CC#170	2A-[66A]-[66A]-71A		
4CC#171	[2A]-66A-[66A]-71A		
4CC#172	2A-[66C]-71A		
4CC#173	[2A]-66C-71A		
4CC#174	[4A]-4A-12B		
4CC#175	[4A]-[4A]-12B		
4CC#176	[4A]-46A-46C	B46 SCC only	
4CC#177	[4A]-46D	B46 SCC only	
4CC#178	5B-30A-[66A]		
4CC#179	5B-[66A]-66A		
4CC#180	5B-[66A]-[66A]		
4CC#181	5A-30A-[66A]-66A		
4CC#182	5A-30A-[66A]-[66A]		
4CC#183	5A-48C-[66A]	B48 SCC only	
4CC#184	5A-[48C]-66A	B48 SCC only	
4CC#185	5A-48A-66A-[66A]	B48 SCC only	
4CC#186	5A-48A-[66A]-66A	B48 SCC only	
4CC#187	5A-48A-[66A]-[66A]	B48 SCC only	
4CC#188	12A-30A-[66A]-66A		
4CC#189	12A-30A-[66A]-[66A]		
4CC#190	14A-30A-[66A]-66A		
4CC#191	14A-30A-[66A]-[66A]		
4CC#192	[25A]-41D	B41 SCC only	
4CC#193	29A-30A-[66A]-66A	B29 SCC only	
4CC#194	29A-30A-[66A]-[66A]	B29 SCC only	
4CC#195	46A-46C-[66A]	B46 SCC only	
4CC#196	46D-[66A]	B46 SCC only	
4CC#197	46C-[48A]-66A	B46/B48 SCC only	
4CC#198	46C-48A-[66A]	B46/B48 SCC only	
4CC#199	46C-[48A]-[66A]	B46/B48 SCC only	
4CC#200	46C-66A-[66A]	B46 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#201	46C-[66A]-[66A]	B46 SCC only	
4CC#202	46A-[48C]-66A	B46/B48 SCC only	
4CC#203	46A-48C-[66A]	B46/B48 SCC only	
4CC#204	[48A]-48D		
4CC#205	[48C]-48C		
4CC#206	[48A]-48C-66A	B48 SCC only	
4CC#207	48A-[48C]-66A	B48 SCC only	
4CC#208	48A-48C-[66A]	B48 SCC only	
4CC#209	[48A]-48C-[66A]	B48 SCC only	
4CC#210	[48A]-48A-66A-66A	B48 SCC only	
4CC#211	48A-48A-[66A]-66A	B48 SCC only	
4CC#212	[48A]-[48A]-66A-66A	B48 SCC only	
4CC#213	[48A]-48A-[66A]-66A	B48 SCC only	
4CC#214	48A-48A-[66A]-[66A]	B48 SCC only	
4CC#215	[48C]-66A-66A	B48 SCC only	
4CC#216	48C-[66A]-66A	B48 SCC only	
4CC#217	48C-[66A]-[66A]	B48 SCC only	
4CC#218	48D-[66A]	B48 SCC only	

Note:

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

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	1/49	24.4	24.5	0.12
Band 4	QPSK	20	20850	2510	1/0	24.0	24.1	0.15
Band 25	QPSK	20	26140	1860	1/0	24.3	24.3	0.03
Band 41	QPSK	20	41055	2636.5	1/0	23.5	23.6	0.08
Band 48	QPSK	20	55773	3603.3	50/50	20.9	21.0	0.02
Band 66	QPSK	20	132322	1745	1/49	23.9	23.9	0.03

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 [dBm]	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	2A	7A			QPSK	20	18900	1880	1/49	20	900	1960	20	3100	2655							24.37	24.49	-0.12
	7A	2A			QPSK	20	20850	2510	1/0	20	2850	2630	20	900	1960							23.5	23.57	-0.07
4A-48A	4A	48A			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55773	3603.3							23.95	23.96	-0.01
5A-25A	5A	25A			QPSK	10	20525	836.5	1/25	10	2525	881.5	20	8365	1962.5							24.3	24.35	-0.05
	25A	5A			QPSK	20	26140	1860	1/0	20	8140	1940	10	2525	881.5							24.26	24.41	-0.15
12A-46A	12A	46A			QPSK	10	23095	707.5	1/25	10	5095	737.5	20	50665	5537.5							24.24	24.29	-0.05
12A-48A	12A	48A			QPSK	10	23095	707.5	1/25	10	5095	737.5	20	55773	3603.3							24.24	24.38	-0.14
13A-46A	13A	46A			QPSK	10	23230	782	1/0	10	5230	751	20	50665	5537.5							23.93	24.06	-0.13
13A-48A	13A	48A			QPSK	10	23230	782	1/0	10	5230	751	20	55773	3603.3							23.93	24.02	-0.09
25A-25A	25A	25A			QPSK	20	26140	1860	1/0	20	8140	1940	20	8590	1985							24.26	24.29	-0.03
25A-41A	25A	41A			QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593							24.26	24.35	-0.09
48A-71A	71A	48A			QPSK	20	133297	680.5	1/0	20	68761	634.5	20	55773	3603.3							24.64	24.71	-0.07
66B	66B	66B			QPSK	15	132322	1745	1/37	15	66786	2145	5	66879	2154.3							24.17	24.18	-0.01
2A-2A-46A	2A	2A	46A		QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	50665	5537.5					24.22	24.25	-0.03
2A-4A-13A	2A	4A	13A		QPSK	20	18900	1880	1/49	20	900	1960	20	2175	2132.5	10	5230	751					24.37	24.37	0
	4A	2A	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751					23.95	23.99	-0.04
	13A	2A	4A		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	2175	2132.5					23.93	24	-0.07
2A-5A-46A	2A	5A	46A		QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	50665	5537.5					24.37	24.41	-0.04
	5A	2A	46A		QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	50665	5537.5					24.3	24.44	-0.14
2A-13A-66A	2A	13A	66A		QPSK	20	18900	1880	1/49	20	900	1960	10	5230	751	20	66786	2145					24.37	24.49	-0.12
	13A	2A	66A		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	66786	2145					23.93	24.08	-0.15
	66A	2A	13A		QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5230	751					23.88	23.96	-0.08
4A-4A-71A	4A	4A	71A		QPSK	20	20050	1720	1/49	20	2050	2120	20	2300	2145	20	68761	634.5					23.51	23.53	-0.02
	71A	4A	4A		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	2050	2120	20	2300	2145					24.64	24.7	-0.06
4A-46A-46A	4A	46A	46A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	50665	5537.5	20	54539	5925					23.95	24.01	-0.06
4A-48C	4A	48C	48C		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55773	3603.3	20	55575	3583.5					23.95	24.03	-0.08
5A-46A-66A	5A	46A	66A		QPSK	10	20525	836.5	1/25	10	2525	881.5	20	50665	5537.5	20	66786	2145					24.3	24.37	-0.07
	66A	5A	46A		QPSK	20	132322	1745	1/49	20	66786	2145	10	2525	881.5	20	50665	5537.5					23.88	24.03	-0.15
12A-48C	12A	48C	48C		QPSK	10	23095	707.5	1/25	10	5095	737.5	20	55773	3603.3	20	55575	3583.5					24.24	24.36	-0.12
25A-41C	25A	41C	41C		QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593	20	40422	2573.2					24.26	24.26	0
41A-41C	41A	41C	41C		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506	20	39948	2525.8					23.53	23.61	-0.08
	41C	41C	41A		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	40857	2616.7	20	39750	2506					23.53	23.59	-0.06
41D	41D	41D	41D		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	40857	2616.7	20	41253	2656.3					23.53	23.6	-0.07
46A-66A-66A	66A	66A	46A		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	50665	5537.5					23.34	23.43	-0.09
48A-48C	48A	48C	48C		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56640	3690	20	56442	3670.2					20.94	21.07	-0.13
	48C	48C	48A		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	56640	3690					20.94	20.97	-0.03
66A-66A-66A	66A	66A	66A		QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	66536	2120					23.34	23.48	-0.14
2A-2A-4A-4A	2A	2A	4A	4A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2050	2120	20	2300	2145	24.22	24.25	-0.03
	4A	4A	2A	2A	QPSK	20	20050	1720	1/49	20	2050	2120	20	2300	2145	20	700	1940	20	1100	1980	23.51	23.61	-0.1
2A-2A-4A-5A	2A	2A	4A	5A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	24.22	24.36	-0.14
	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	23.95	24.08	-0.13
	5A	2A	2A	4A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.3	24.39	-0.09
2A-2A-4A-12A	2A	2A	4A	12A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	24.22	24.32	-0.1
	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	23.95	24.01	-0.06
	12A	2A	2A	4A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.24	24.39	-0.15
2A-2A-4A-71A	2A	2A	4A	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	24.22	24.29	-0.07
	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	23.95	24.01	-0.06
	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	24.64	24.76	-0.12
2A-2A-5B	2A	2A	5B	5B	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	5	2453	874.3	24.22	24.22	0
	5B	5B	2A	2A	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	20	700	1940	20	1100	1980	24.3	24.43	-0.13
2A-2A-5A-30A	2A	2A	5A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	10	9820	2355	24.22	24.35	-0.13
	5A	2A	2A	30A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	10	9820	2355	24.3	24.32	-0.02
	30A	2A	2A	5A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	2525	881.5	23.41	23.44	-0.03

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 output power results (Continued)

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power [dBm]	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-5A-66A	2A	2A	5A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	20	66786	2145	24.22	24.32	-0.1
	5A	2A	2A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	66786	2145	24.3	24.32	-0.02
	66A	2A	2A	5A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	2525	881.5	23.88	23.92	-0.04
2A-2A-12B	2A	2A	12B	12B	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	5	5095	737.5	5	5047	732.7	24.22	24.22	0
	12B	12B	2A	2A	QPSK	5	23095	707.5	1/12	10	5095	737.5	5	5047	732.7	20	700	1940	20	1100	1980	24.21	24.24	-0.03
2A-2A-12A-30A	2A	2A	12A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	10	9820	2355	24.22	24.36	-0.14
	12A	2A	2A	30A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	10	9820	2355	24.24	24.33	-0.09
	30A	2A	2A	12A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5095	737.5	23.41	23.53	-0.12
2A-2A-12A-66A	2A	2A	12A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	20	66786	2145	24.22	24.26	-0.04
	12A	2A	2A	66A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	66786	2145	24.24	24.27	-0.03
	66A	2A	2A	12A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5095	737.5	23.88	23.92	-0.04
2A-2A-14A-30A	2A	2A	14A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	10	9820	2355	24.22	24.31	-0.09
	14A	2A	2A	30A	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	10	9820	2355	23.79	23.9	-0.11
	30A	2A	2A	14A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5330	763	23.41	23.51	-0.1
2A-2A-14A-66A	2A	2A	14A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	20	66786	2145	24.22	24.36	-0.14
	14A	2A	2A	66A	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	20	66786	2145	23.79	23.8	-0.01
	66A	2A	2A	14A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	23.89	-0.01
2A-2A-29A-30A	2A	2A	29A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	10	9820	2355	24.22	24.26	-0.04
	30A	2A	2A	29A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5330	763	23.41	23.51	-0.1
2A-2A-29A-66A	2A	2A	29A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	20	66786	2145	24.22	24.26	-0.04
	66A	2A	2A	29A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	23.88	0
2A-2A-30A-66A	2A	2A	30A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9820	2355	20	66786	2145	24.22	24.36	-0.14
	30A	2A	2A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	20	66786	2145	23.41	23.51	-0.1
	66A	2A	2A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	9820	2355	23.88	23.95	-0.07
2A-2A-46C	2A	2A	46C	46C	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	50665	5537.5	20	50467	5517.7	24.22	24.3	-0.08
2A-2A-66A-66A	2A	2A	66A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	67036	2170	24.22	24.29	-0.07
	66A	66A	2A	2A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	23.34	23.45	-0.11
2A-2A-66C	2A	2A	66C	66C	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	66588	2125.2	24.22	24.23	-0.01
	66C	66C	2A	2A	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	700	1940	20	1100	1980	23.88	23.92	-0.04
2C-66A-66A	2C	2C	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	702	1940.2	20	66786	2145	20	67036	2170	24.37	24.4	-0.03
	66A	66A	2C	2C	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	702	1940.2	23.34	23.45	-0.11
2A-2A-66A-71A	2A	2A	66A	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	24.22	24.25	-0.03
	66A	2A	2A	71A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	20	68761	634.5	23.88	24.03	-0.15
	71A	2A	2A	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	700	1940	20	1100	1980	20	66786	2145	24.64	24.78	-0.14
2A-4A-4A-5A	2A	4A	4A	5A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	2525	881.5	24.37	24.39	-0.02
	4A	4A	2A	5A	QPSK	20	20050	1720	1/49	20	2050	2120	20	2300	2145	20	900	1960	10	2525	881.5	23.51	23.57	-0.06
	5A	2A	4A	4A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	2050	2120	20	2300	2145	24.3	24.31	-0.01
2A-4A-4A-12A	2A	4A	4A	12A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	5095	737.5	24.37	24.39	-0.02
	4A	4A	2A	12A	QPSK	20	20050	1720	1/49	20	2050	2120	20	2300	2145	20	900	1960	10	5095	737.5	23.51	23.64	-0.13
	12A	2A	4A	4A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	2050	2120	20	2300	2145	24.24	24.27	-0.03
2A-4A-12B	2A	4A	12B	12B	QPSK	20	18900	1880	1/49	20	900	1960	20	2175	2132.5	5	5095	737.5	5	5047	732.7	24.37	24.37	0
	4A	2A	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	5	5095	737.5	5	5047	732.7	23.95	23.97	-0.02
	12B	12B	2A	4A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5047	732.7	20	900	1960	20	2175	2132.5	24.21	24.31	-0.1
2A-5B-30A	2A	5B	5B	30A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	5	2453	874.3	10	9820	2355	24.37	24.51	-0.14
	5B	5B	2A	30A	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	20	900	1960	10	9820	2355	24.3	24.34	-0.04
	30A	2A	5B	5B	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	2525	881.5	5	2453	874.3	23.41	23.56	-0.15
2A-5B-66A	2A	5B	5B	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	5	2453	874.3	20	66786	2145	24.37	24.5	-0.13
	5B	5B	2A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	20	900	1960	20	66786	2145	24.3	24.38	-0.08
	66A	2A	5B	5B	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	5	2453	874.3	23.88	23.94	-0.06
2A-5A-30A-66A	2A	5A	30A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	10	9820	2355	20	66786	2145	24.37	24.39	-0.02
	5A	2A	30A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	10	9820	2355	20	66786	2145	24.3	24.36	-0.06
	30A	2A	5A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	2525	881.5	20	66786	2145	23.41	23.54	-0.13
	66A	2A	5A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	10	9820	2355	23.88	23.97	-0.09

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 output power results (Continued)

E-UTRA CA configuration (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power [dBm]	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-5A-48C	2A	5A	48C	48C	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	24.37	24.52	-0.15
	5A	2A	48C	48C	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	55575	3583.5	24.3	24.37	-0.07
2A-5A-48A-66A	2A	5A	48A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	66786	2145	24.37	24.39	-0.02
	5A	2A	48A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	66786	2145	24.3	24.3	0
	66A	2A	5A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	20	55773	3603.3	23.88	23.93	-0.05
2A-5A-66A-66A	2A	5A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	66786	2145	20	67036	2170	24.37	24.51	-0.14
	5A	2A	66A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	66786	2145	20	67036	2170	24.3	24.36	-0.06
	66A	66A	2A	5A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	23.34	23.34	0
2A-12B-66A	2A	12B	12B	66A	QPSK	20	18900	1880	1/49	20	900	1960	5	5095	737.5	5	5047	732.7	20	66786	2145	24.37	24.5	-0.13
	12B	12B	2A	66A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5047	732.7	20	900	1960	20	66786	2145	24.21	24.28	-0.07
	66A	2A	12B	12B	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	5	5095	737.5	5	5047	732.7	23.88	23.97	-0.09
2A-12A-30A-66A	2A	12A	30A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	10	9820	2355	20	66786	2145	24.37	24.47	-0.1
	12A	2A	30A	66A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	10	9820	2355	20	66786	2145	24.24	24.38	-0.14
	30A	2A	12A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	5095	737.5	20	66786	2145	23.41	23.51	-0.1
	66A	2A	12A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5095	737.5	10	9820	2355	23.88	24.02	-0.14
2A-12A-66A-66A	2A	12A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	20	66786	2145	20	67036	2170	24.37	24.43	-0.06
	12A	2A	66A	66A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	66786	2145	20	67036	2170	24.24	24.3	-0.06
	66A	66A	2A	12A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	23.34	23.48	-0.14
2A-12A-66C	2A	12A	66C	66C	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	20	66786	2145	20	66588	2125.2	24.37	24.47	-0.1
	12A	2A	66C	66C	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	66786	2145	20	66588	2125.2	24.24	24.37	-0.13
	66C	66C	2A	12A	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	900	1960	10	5095	737.5	23.88	23.9	-0.02
2A-14A-30A-66A	2A	14A	30A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	10	9820	2355	20	66786	2145	24.37	24.48	-0.11
	14A	2A	30A	66A	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	10	9820	2355	20	66786	2145	23.79	23.82	-0.03
	30A	2A	14A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	5330	763	20	66786	2145	23.41	23.54	-0.13
	66A	2A	14A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5330	763	10	9820	2355	23.88	23.91	-0.03
2A-14A-66A-66A	2A	14A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	20	66786	2145	20	67036	2170	24.37	24.43	-0.06
	14A	2A	66A	66A	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	20	66786	2145	20	67036	2170	23.79	23.89	-0.1
	66A	66A	2A	14A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	23.34	23.38	-0.04
2A-29A-30A-66A	2A	29A	30A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	10	9820	2355	20	66786	2145	24.37	24.41	-0.04
	30A	2A	29A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	9715	722.5	20	66786	2145	23.41	23.51	-0.1
	66A	2A	29A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	9715	722.5	10	9820	2355	23.88	23.97	-0.09
2A-29A-66A-66A	2A	29A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	20	66786	2145	20	67036	2170	24.37	24.45	-0.08
	66A	66A	2A	29A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	9715	722.5	23.34	23.35	-0.01
2A-30A-66A-66A	2A	30A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	9820	2355	20	66786	2145	20	67036	2170	24.37	24.47	-0.1
	30A	2A	66A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	23.41	23.54	-0.13
	66A	66A	2A	30A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	10	9820	2355	23.34	23.39	-0.05
2A-46A-46C	2A	46A	46C	46C	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	46790	5150	20	46988	5169.8	24.37	24.51	-0.14
2A-46D	2A	46D	46D	46D	QPSK	20	18900	1880	1/49	20	900	1960	20	48665	5337.5	20	48467	5317.7	20	48863	5357.3	24.37	24.46	-0.09
2A-46C-48A	2A	46C	46C	48A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	50467	5517.7	20	55773	3603.3	24.37	24.51	-0.14
2A-46A-46A-66A	2A	46A	46A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	54539	5925	20	66786	2145	24.37	24.5	-0.13
	66A	2A	46A	46A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	54539	5925	23.88	23.91	-0.03
2A-46C-66A	2A	46C	46C	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.37	24.37	0
	66A	2A	46C	46C	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	50467	5517.7	23.88	23.91	-0.03
2A-46A-48C	2A	46A	48C	48C	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	55575	3583.5	24.37	24.43	-0.06
2A-46A-48A-66A	2A	46A	48A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	66786	2145	24.37	24.51	-0.14
	66A	2A	46A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	55773	3603.3	23.88	24	-0.12
2A-48A-48C	2A	48A	48C	48C	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	56442	3670.2	24.37	24.5	-0.13
2A-48D	2A	48D	48D	48D	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	55575	3583.5	20	55971	3623.1	24.37	24.49	-0.12
2A-48A-48A-66A	2A	48A	48A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	66786	2145	24.37	24.48	-0.11
	66A	2A	48A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	56640	3690	23.88	23.89	-0.01
2A-48C-66A	2A	48C	48C	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	55575	3583.5	20	66786	2145	24.37	24.37	0
	66A	2A	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	55575	3583.5	23.88	23.94	-0.06
2A-48A-66A-66A	2A	48A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145	20	67036	2170	24.37	24.39	-0.02
	66A	66A	2A	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.34	23.43	-0.09

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 output power results (Continued)

E-UTRA CA configutation (BCS)	Bands				UL					DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power [dBm]	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-66A-66A-71A	2A	66A	66A	71A	QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	67036	2170	20	68761	634.5	24.37	24.37	0
	66A	66A	2A	71A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	23.34	23.43	-0.09
	71A	2A	66A	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	67036	2170	24.64	24.64	0
2A-66C-71A	2A	66C	66C	71A	QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	66588	2125.2	20	68761	634.5	24.37	24.41	-0.04
	66C	66C	2A	71A	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	900	1960	20	68761	634.5	23.88	23.89	-0.01
	71A	2A	66C	66C	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	66588	2125.2	24.64	24.74	-0.1
4A-4A-12B	4A	4A	12B	12B	QPSK	20	20050	1720	1/49	20	2050	2120	20	2300	2145	5	5095	737.5	5	5047	732.7	23.51	23.54	-0.03
	12B	12B	4A	4A	QPSK	5	23095	707.5	1/12	10	5095	737.5	5	5047	732.7	20	2050	2120	20	2300	2145	24.21	24.21	0
4A-46A-46C	4A	46A	46C	46C	QPSK	20	20050	1720	1/49	20	2050	2120	20	2300	2145	20	50665	5537.5	20	50467	5517.7	23.51	23.53	-0.02
4A-46D	4A	46D	46D	46D	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	50665	5537.5	50467	50467	5517.7	20	50863	5557.3	23.95	23.96	-0.01
5B-30A-66A	5B	5B	30A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	10	9820	2355	20	66786	2145	24.3	24.34	-0.04
	30A	5B	5B	66A	QPSK	10	27710	2310	1/25	10	9820	2355	10	2525	881.5	5	2453	874.3	20	66786	2145	23.41	23.53	-0.12
	66A	5B	5B	30A	QPSK	20	132322	1745	1/49	20	66786	2145	10	2525	881.5	5	2453	874.3	10	9820	2355	23.88	23.92	-0.04
5B-66A-66A	5B	5B	66A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	20	66786	2145	20	67036	2170	24.3	24.4	-0.1
	66A	66A	5B	5B	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	2525	881.5	5	2453	874.3	23.34	23.39	-0.05
5A-30A-66A-66A	5A	30A	66A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	10	9820	2355	20	66786	2145	20	67036	2170	24.3	24.4	-0.1
	30A	5A	66A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	10	2525	881.5	20	66786	2145	20	67036	2170	23.41	23.42	-0.01
	66A	66A	5A	30A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	2525	881.5	10	9820	2355	23.34	23.47	-0.13
5A-48C-66A	5A	48C	48C	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	20	66786	2145	24.3	24.32	-0.02
	66A	5A	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	23.88	24.03	-0.15
5A-48A-66A-66A	5A	48A	66A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	55773	3603.3	20	66786	2145	20	67036	2170	24.3	24.32	-0.02
	66A	66A	5A	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	2525	881.5	20	55773	3603.3	23.34	23.37	-0.03
12A-30A-66A-66A	12A	30A	66A	66A	QPSK	10	23095	707.5	1/25	10	5095	737.5	10	9820	2355	20	66786	2145	20	67036	2170	24.24	24.27	-0.03
	30A	12A	66A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	10	5095	737.5	20	66786	2145	20	67036	2170	23.41	23.41	0
	66A	66A	12A	30A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	5095	737.5	10	9820	2355	23.34	23.48	-0.14
14A-30A-66A-66A	14A	30A	66A	66A	QPSK	10	23330	793	1/0	10	5330	763	10	9820	2355	20	66786	2145	10	67036	2170	23.79	23.92	-0.13
	30A	14A	66A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	10	5330	763	20	66786	2145	20	67036	2170	23.41	23.56	-0.15
	66A	66A	14A	30A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	5095	737.5	10	5330	763	23.34	23.34	0
25A-41D	25A	41D	41D	41D	QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593	20	40422	2573.2	20	40818	2612.8	24.26	24.4	-0.14
29A-30A-66A-66A	30A	29A	66A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	10	9715	722.5	20	66786	2145	20	67036	2170	23.41	23.54	-0.13
	66A	66A	29A	30A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	10	9715	722.5	10	5330	763	23.34	23.37	-0.03
46A-46C-66A	66A	46A	46C	46C	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	46790	5150	20	46988	5169.8	23.88	23.96	-0.08
46D-66A	66A	46D	46D	46D	QPSK	20	132322	1745	1/49	20	66786	2145	20	48665	5337.5	20	48467	5317.7	20	48863	5357.3	23.88	24.01	-0.13
46C-48A-66A	66A	46C	46C	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	50467	5517.7	20	55773	3603.3	23.88	24.01	-0.13
46C-66A-66A	66A	66A	46C	46C	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	50665	5537.5	20	50467	5517.7	23.34	23.45	-0.11
46A-48C-66A	66A	46A	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	55773	3603.3	20	55575	3583.5	23.88	23.88	0
48A-48D	48A	48D	48D	48D	QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56207	3646.7	20	56009	3626.9	20	56405	3666.5	20.94	21.07	-0.13
	48D	48D	48D	48A	QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	55971	3623.1	20	56640	3690	20.94	20.94	0
48C-48C	48C	48C	48C	48C	QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	56640	3690	20	56552	3670.2	20.94	20.97	-0.03
48E	48E	48E	48E	48E	QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	55377	3563.7	20	55971	3623.1	20.94	21	-0.06
48A-48C-66A	66A	48A	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	56640	3690	20	56442	3670.2	23.88	23.89	-0.01
48A-48A-66A-66A	66A	66A	48A	48A	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55773	3603.3	20	56640	3690	23.34	23.44	-0.1
48C-66A-66A	66A	66A	48C	48C	QPSK	20	132072	1720	1/49	20	66536	2120	20	67036	2170	20	55773	3603.3	20	55575	3583.5	23.34	23.38	-0.04
48D-66A	66A	48D	48D	48D	QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	55575	3583.5	20	55971	3623.1	23.88	24.02	-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.

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)			
[2A]-7A	[2A]	7A			QPSK	20	18900	1880	1/49	20	900	1960	20	3100	2655							24.37	24.51	-0.14
	7A	[2A]			QPSK	20	20850	2510	1/0	20	2850	2630	20	900	1960							23.5	23.61	-0.11
4A-[48A]	4A	[48A]			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55773	3603.3							23.95	24.08	-0.13
[4A]-48A	[4A]	48A			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55773	3603.3							23.95	24.07	-0.12
[4A]-[48A]	[4A]	[48A]			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55773	3603.3							23.95	24.02	-0.07
5A-[25A]	5A	[25A]			QPSK	10	20525	836.5	1/25	10	2525	881.5	20	8365	1962.5							24.3	24.41	-0.11
	[25A]	5A			QPSK	20	26140	1860	1/0	20	8140	1940	10	2525	881.5							24.26	24.29	-0.03
12A-[25A]	12A	[25A]			QPSK	10	23095	707.5	1/25	10	5095	737.5	20	8365	1962.5							24.24	24.29	-0.05
	[25A]	12A			QPSK	20	26140	1860	1/0	20	8140	1940	10	5095	737.5							24.26	24.33	-0.07
12A-[48A]	12A	[48A]			QPSK	10	23095	707.5	1/25	10	5095	737.5	20	55773	3603.3							24.24	24.27	-0.03
13A-[48A]	13A	[48A]			QPSK	10	23230	782	1/0	10	5230	751	20	55773	3603.3							23.93	24.06	-0.13
25A-[25A]	25A	[25A]			QPSK	20	26140	1860	1/0	20	8140	1940	20	8590	1985							24.26	24.38	-0.12
	[25A]	25A			QPSK	20	26140	1860	1/0	20	8140	1940	20	8590	1985							24.26	24.34	-0.08
[25A]-[25A]	[25A]	[25A]			QPSK	20	26140	1860	1/0	20	8140	1940	20	8590	1985							24.26	24.29	-0.03
25A-[41A]	25A	[41A]			QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593							24.26	24.35	-0.09
[25A]-41A	[25A]	41A			QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593							24.26	24.27	-0.01
[25A]-[41A]	[25A]	[41A]			QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593							24.26	24.32	-0.06
41A-[41A]	41A	[41A]			QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506							23.53	23.61	-0.08
	[41A]	41A			QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506							23.53	23.64	-0.11
[41A]-[41A]	[41A]	[41A]			QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506							23.53	23.67	-0.14
[48A]-48A	48A	[48A]			QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56640	3690							20.94	21.04	-0.1
	[48A]	48A			QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56640	3690							20.94	20.96	-0.02
[48A]-[48A]	[48A]	[48A]			QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56640	3690							20.94	21	-0.06
[48B]	[48B]	[48B]			QPSK	10	55757	3601.7	25/12	10	55757	3601	10	55658	3591.8							20.3	20.35	-0.05
[48A]-71A	71A	[48A]			QPSK	20	133297	680.5	1/0	20	68761	634.5	20	55773	3603.3							24.64	24.79	-0.15
[66B]	[66B]	[66B]			QPSK	15	132322	1745	1/37'	15	66786	2145	5	132415	1754.3							24.17	24.18	-0.01
[2A]-[2A]-[4A]	[2A]	[2A]	[4A]		QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5				24.22	24.34	-0.12
	[4A]	[2A]	[2A]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	700	1940	20	1100	1980				23.95	24.08	-0.13
2A-[2A]-46A	2A	[2A]	46A		QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	50665	5537.5				24.22	24.32	-0.1
	[2A]	2A	46A		QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	50665	5537.5				24.22	24.37	-0.15
[2A]-[2A]-46A	[2A]	[2A]	46A		QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	50665	5537.5				24.22	24.33	-0.11
[2A]-[2A]-[66A]	[2A]	[2A]	[66A]		QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145				24.22	24.29	-0.07
	[66A]	[2A]	[2A]		QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980				23.88	23.98	-0.1
[2A]-[4A]-[4A]	[2A]	[4A]	[4A]		QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145				24.37	24.41	-0.04
	[4A]	[4A]	[2A]		QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960				23.87	23.94	-0.07
2A-[4A]-13A	2A	[4A]	13A		QPSK	20	18900	1880	1/49	20	900	1960	20	2175	2132.5	10	5230	751				24.37	24.5	-0.13
	[4A]	2A	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751				23.95	24	-0.05
	13A	2A	[4A]		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	2175	2132.5				23.93	23.98	-0.05
[2A]-4A-13A	[2A]	4A	13A		QPSK	20	18900	1880	1/49	20	900	1960	20	2175	2132.5	10	5230	751				24.37	24.51	-0.14
	4A	[2A]	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751				23.95	24.05	-0.1
	13A	[2A]	4A		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	2175	2132.5				23.93	23.99	-0.06
[2A]-[4A]-13A	[2A]	[4A]	13A		QPSK	20	18900	1880	1/49	20	900	1960	20	2175	2132.5	10	5230	751				24.37	24.42	-0.05
	[4A]	[2A]	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751				23.95	24.03	-0.08
	13A	[2A]	[4A]		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	2175	2132.5				23.93	24.08	-0.15
[2A]-5A-46A	[2A]	5A	46A		QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	50665	5537.5				24.37	24.41	-0.04
	5A	[2A]	46A		QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	50665	5537.5				24.3	24.36	-0.06
2A-13A-[66A]	2A	13A	[66A]		QPSK	20	18900	1880	1/49	20	900	1960	10	5230	751	20	66786	2145				24.37	24.46	-0.09
	13A	2A	[66A]		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	66786	2145				23.93	23.96	-0.03
	[66A]	2A	13A		QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5230	751				23.88	23.91	-0.03
[2A]-13A-66A	[2A]	13A	66A		QPSK	20	18900	1880	1/49	20	900	1960	10	5230	751	20	66786	2145				24.37	24.51	-0.14
	13A	[2A]	66A		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	66786	2145				23.93	23.97	-0.04
	66A	[2A]	13A		QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5230	751				23.88	24.01	-0.13

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 (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]-13A-[66A]	[2A]	13A	[66A]		QPSK	20	18900	1880	1/49	20	900	1960	10	5230	751	20	66786	2145				24.37	24.45	-0.08
	13A	[2A]	[66A]		QPSK	10	23230	782	1/0	10	5230	751	20	900	1960	20	66786	2145				23.93	23.96	-0.03
	[66A]	[2A]	13A		QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5230	751				23.88	24.01	-0.13
[2A]-[48A]-[48A]	[2A]	[48A]	[48A]		QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690				24.37	24.38	-0.01
[2A]-[48C]	[2A]	[48C]	[48C]		QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	55575	3583.5				24.37	24.48	-0.11
[2A]-[48A]-[66A]	[2A]	[48A]	[66A]		QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145				24.37	24.43	-0.06
	[66A]	[2A]	[48A]		QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3				23.88	24.02	-0.14
[2A]-[66A]-[66A]	[2A]	[66A]	[66A]		QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	67036	2170				24.37	24.42	-0.05
	[66A]	[66A]	[2A]		QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960				23.84	23.88	-0.04
[2A]-[66C]	[2A]	[66C]	[66C]		QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	66588	2125.2				24.37	24.48	-0.11
	[66C]	[66C]	[2A]		QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	900	1960				23.88	23.96	-0.08
4A-[4A]-71A	4A	[4A]	71A		QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	68761	634.5				23.87	23.96	-0.09
	[4A]	4A	71A		QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	68761	634.5				23.87	23.89	-0.02
	71A	4A	[4A]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	2050	2120	20	2300	2145				24.64	24.67	-0.03
[4A]-[4A]-71A	[4A]	[4A]	71A		QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	68761	634.5				23.87	23.92	-0.05
	71A	[4A]	[4A]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	2050	2120	20	2300	2145				24.64	24.67	-0.03
[4A]-46A-46A	[4A]	46A	46A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	50665	5537.5	20	54539	5925				23.95	24.05	-0.1
4A-[48C]	4A	[48C]	[48C]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55773	3603.3	20	55575	3583.5				23.95	24	-0.05
[4A]-[48C]	[4A]	[48C]	[48C]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	55773	3603.3	20	55575	3583.5				23.95	24.01	-0.06
5A-46A-[66A]	5A	46A	[66A]		QPSK	10	20525	836.5	1/25	10	2525	881.5	20	50665	5537.5	20	66786	2145				24.3	24.37	-0.07
	[66A]	5A	46A		QPSK	20	132322	1745	1/49	20	66786	2145	10	2525	881.5	20	50665	5537.5				23.88	24.03	-0.15
12A-[48C]	12A	[48C]	[48C]		QPSK	10	23095	707.5	1/25	10	5095	737.5	20	55773	3603.3	20	55575	3583.5				24.24	24.37	-0.13
12A-66A-[66A]	12A	66A	[66A]		QPSK	10	23095	707.5	1/25	10	5095	737.5	20	66786	2145	20	67036	2170				24.24	24.39	-0.15
	66A	[66A]	12A		QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5				23.84	23.89	-0.05
	[66A]	66A	12A		QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5				23.84	23.93	-0.09
12A-[66A]-[66A]	12A	[66A]	[66A]		QPSK	10	23095	707.5	1/25	10	5095	737.5	20	66786	2145	20	67036	2170				24.24	24.38	-0.14
	[66A]	[66A]	12A		QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5				23.84	23.99	-0.15
25A-[41C]	25A	[41C]	[41C]		QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593	20	40422	2573.2				24.26	24.36	-0.1
[25A]-41C	[25A]	41C	41C		QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593	20	40422	2573.2				24.26	24.37	-0.11
[25A]-[41C]	[25A]	[41C]	[41C]		QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593	20	40422	2573.2				24.26	24.38	-0.12
41A-[41C]	41A	[41C]	[41C]		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506	20	39948	2525.8				23.53	23.54	-0.01
	[41C]	[41C]	41A		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	40857	2616.7	20	39750	2506				23.53	23.68	-0.15
[41A]-41C	[41A]	41C	41C		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506	20	39948	2525.8				23.53	23.68	-0.15
	41C	41C	[41A]		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	40857	2616.7	20	39750	2506				23.53	23.59	-0.06
[41A]-[41C]	[41A]	[41C]	[41C]		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506	20	39948	2525.8				23.53	23.61	-0.08
	[41C]	[41C]	[41A]		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	40857	2616.7	20	39750	2506				23.53	23.56	-0.03
[41D]	[41D]	[41D]	[41D]		QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	40857	2616.7	20	41253	2656.3				23.53	23.62	-0.09
46A-66A-[66A]	66A	[66A]	46A		QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	50665	5537.5				23.84	23.87	-0.03
	[66A]	66A	46A		QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	50665	5537.5				23.84	23.95	-0.11
46A-[66A]-[66A]	[66A]	[66A]	46A		QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	50665	5537.5				23.84	23.99	-0.15
48A-[48C]	48A	[48C]	[48C]		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56640	3690	20	56442	3670.2				20.94	21.07	-0.13
	[48C]	[48C]	48A		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	56640	3690				20.94	21.03	-0.09
[48A]-48C	[48A]	48C	48C		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56640	3690	20	56442	3670.2				20.94	20.95	-0.01
	48C	48C	[48A]		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	56640	3690				20.94	21.05	-0.11
[48A]-[48C]	[48A]	[48C]	[48C]		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56640	3690	20	56442	3670.2				20.94	21.02	-0.08
	[48C]	[48C]	[48A]		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	56640	3690				20.94	20.96	-0.02
[48D]	[48D]	[48D]	[48D]		QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	55971	3623.1				20.94	20.97	-0.03
[48A]-[48A]-[66A]	[66A]	[48A]	[48A]		QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	56640	3690				23.88	23.9	-0.02
[48C]-71A	71A	[48C]	[48C]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	55773	3603.3	20	55575	3583.5				24.64	24.65	-0.01
[48A]-[66A]-[66A]	[66A]	[66A]	[48A]		QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3				23.84	23.91	-0.07
[48C]-[66A]	[66A]	[48C]	[48C]		QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	55575	3583.5				23.88	24	-0.12

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 (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-2A-[4A]-4A	2A	2A	4A	[4A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2050	2120	20	2300	2145	24.22	24.33	-0.11
	4A	[4A]	2A	2A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	700	1940	20	1100	1980	23.87	24.02	-0.15
	[4A]	4A	2A	2A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	700	1940	20	1100	1980	23.87	24.01	-0.14
[2A]-2A-4A-4A	2A	[2A]	4A	4A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2050	2120	20	2300	2145	24.22	24.36	-0.14
	[2A]	2A	4A	4A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2050	2120	20	2300	2145	24.22	24.27	-0.05
	4A	4A	2A	[2A]	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	700	1940	20	1100	1980	23.87	23.93	-0.06
2A-2A-[4A]-[4A]	2A	2A	[4A]	[4A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2050	2120	20	2300	2145	24.22	24.27	-0.05
	[4A]	[4A]	2A	2A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	700	1940	20	1100	1980	23.87	23.9	-0.03
[2A]-2A-[4A]-4A	2A	[2A]	4A	[4A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2050	2120	20	2300	2145	24.22	24.33	-0.11
	[2A]	2A	4A	[4A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2050	2120	20	2300	2145	24.22	24.35	-0.13
	4A	[4A]	2A	[2A]	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	700	1940	20	1100	1980	23.87	24	-0.13
	[4A]	4A	2A	[2A]	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	700	1940	20	1100	1980	23.87	23.94	-0.07
[2A]-[2A]-4A-4A	[2A]	[2A]	4A	4A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2050	2120	20	2300	2145	24.22	24.29	-0.07
	4A	4A	[2A]	[2A]	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	700	1940	20	1100	1980	23.87	23.92	-0.05
2A-2A-[4A]-5A	2A	2A	[4A]	5A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	24.22	24.31	-0.09
	[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	23.95	24.04	-0.09
	5A	2A	2A	[4A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.3	24.35	-0.05
[2A]-2A-4A-5A	2A	[2A]	4A	5A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	24.22	24.35	-0.13
	[2A]	2A	4A	5A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	24.22	24.37	-0.15
	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	23.95	24	-0.05
	5A	2A	[2A]	4A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.3	24.41	-0.11
[2A]-2A-[4A]-5A	2A	[2A]	[4A]	5A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	24.22	24.32	-0.1
	[2A]	2A	[4A]	5A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	24.22	24.32	-0.1
	[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	23.95	23.96	-0.01
	5A	2A	[2A]	[4A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.3	24.43	-0.13
[2A]-[2A]-4A-5A	[2A]	[2A]	4A	5A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	2525	881.5	24.22	24.35	-0.13
	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	23.95	24.08	-0.13
	5A	[2A]	[2A]	4A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.3	24.34	-0.04
2A-2A-[4A]-12A	2A	2A	[4A]	12A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	24.22	24.37	-0.15
	[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	23.95	24.05	-0.1
	12A	2A	2A	[4A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.24	24.28	-0.04
[2A]-2A-4A-12A	2A	[2A]	4A	12A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	24.22	24.27	-0.05
	[2A]	2A	4A	12A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	24.22	24.28	-0.06
	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	23.95	24.06	-0.11
	12A	2A	[2A]	4A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.24	24.39	-0.15
[2A]-2A-[4A]-12A	2A	[2A]	[4A]	12A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	24.22	24.23	-0.01
	[2A]	2A	[4A]	12A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	24.22	24.31	-0.09
	[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	23.95	24.03	-0.08
	12A	2A	[2A]	[4A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.24	24.39	-0.15
[2A]-[2A]-4A-12A	[2A]	[2A]	4A	12A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	10	5095	737.5	24.22	24.29	-0.07
	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	23.95	23.97	-0.02
	12A	[2A]	[2A]	4A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	2175	2132.5	24.24	24.37	-0.13
2A-2A-[4A]-71A	2A	2A	[4A]	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	24.22	24.31	-0.09
	[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	23.95	24.04	-0.09
	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	24.64	24.67	-0.03
[2A]-2A-4A-71A	2A	[2A]	4A	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	24.22	24.31	-0.09
	[2A]	2A	4A	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	24.22	24.37	-0.15
	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	23.95	23.96	-0.01
	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	24.64	24.7	-0.06
[2A]-2A-[4A]-71A	2A	[2A]	[4A]	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	24.22	24.36	-0.14
	[2A]	2A	[4A]	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	24.22	24.29	-0.07
	[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	23.95	23.96	-0.01
	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	24.64	24.7	-0.06

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 (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]-[2A]-4A-71A	[2A]	[2A]	4A	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	2175	2132.5	20	68761	634.5	24.22	24.25	-0.03
	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	23.95	24.04	-0.09
	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	24.64	24.71	-0.07
[2A]-2A-5B	2A	[2A]	5B	5B	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	5	2453	874.3	24.22	24.28	-0.06
	[2A]	2A	5B	5B	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	5	2453	874.3	24.22	24.31	-0.09
	5B	5B	2A	[2A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	2525	874.3	20	700	1940	20	1100	1980	24.3	24.42	-0.12
[2A]-[2A]-5B	[2A]	[2A]	5B	5B	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	5	2453	874.3	24.22	24.36	-0.14
	5B	5B	[2A]	[2A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	2525	874.3	20	700	1940	20	1100	1980	24.3	24.44	-0.14
[2A]-2A-5A-30A	2A	[2A]	5A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	10	9820	2355	24.22	24.31	-0.09
	[2A]	2A	5A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	10	9820	2355	24.22	24.35	-0.13
	5A	2A	[2A]	30A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	10	9820	2355	24.3	24.35	-0.05
	30A	2A	[2A]	5A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	2525	881.5	23.41	23.49	-0.08
[2A]-[2A]-5A-30A	[2A]	[2A]	5A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	10	9820	2355	24.22	24.3	-0.08
	5A	[2A]	[2A]	30A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	10	9820	2355	24.3	24.39	-0.09
	30A	[2A]	[2A]	5A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	2525	881.5	23.41	23.43	-0.02
2A-2A-5A-[66A]	2A	2A	5A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	20	66786	2145	24.22	24.24	-0.02
	5A	2A	2A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	66786	2145	24.3	24.44	-0.14
	[66A]	2A	2A	5A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	2525	881.5	23.88	24	-0.12
[2A]-2A-5A-66A	2A	[2A]	5A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	20	66786	2145	24.22	24.34	-0.12
	[2A]	2A	5A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	20	66786	2145	24.22	24.26	-0.04
	5A	2A	[2A]	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	66786	2145	24.3	24.32	-0.02
	66A	2A	[2A]	5A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	2525	881.5	23.88	24.01	-0.13
[2A]-2A-5A-[66A]	2A	[2A]	5A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	20	66786	2145	24.22	24.25	-0.03
	[2A]	2A	5A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	20	66786	2145	24.22	24.25	-0.03
	5A	2A	[2A]	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	66786	2145	24.3	24.44	-0.14
	[66A]	2A	[2A]	5A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	2525	881.5	23.88	23.94	-0.06
[2A]-[2A]-5A-66A	[2A]	[2A]	5A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	2525	881.5	20	66786	2145	24.22	24.25	-0.03
	5A	[2A]	[2A]	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	700	1940	20	1100	1980	20	66786	2145	24.3	24.34	-0.04
	66A	2A	[2A]	5A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	2525	881.5	23.88	24.02	-0.14
[2A]-2A-12B	2A	[2A]	12B	12B	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	5	5095	737.5	5	5047	732.7	24.22	24.26	-0.04
	[2A]	2A	12B	12B	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	5	5095	737.5	5	5047	732.7	24.22	24.27	-0.05
	12B	12B	2A	[2A]	QPSK	5	23095	707.5	1/12	10	5095	737.5	5	5047	732.7	20	700	1940	20	1100	1980	24.21	24.25	-0.04
[2A]-[2A]-12B	[2A]	[2A]	12B	12B	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	5	5095	737.5	5	5047	732.7	24.22	24.32	-0.1
	12B	12B	[2A]	[2A]	QPSK	5	23095	707.5	1/12	10	5095	737.5	5	5047	732.7	20	700	1940	20	1100	1980	24.21	24.26	-0.05
2A-2A-12A-30A	2A	2A	12A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	10	9820	2355	24.22	24.35	-0.13
	12A	2A	2A	30A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	10	9820	2355	24.24	24.36	-0.12
	30A	2A	2A	12A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5095	737.5	23.41	23.46	-0.05
[2A]-2A-12A-30A	2A	[2A]	12A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	10	9820	2355	24.22	24.26	-0.04
	[2A]	2A	12A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	10	9820	2355	24.22	24.24	-0.02
	12A	2A	[2A]	30A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	10	9820	2355	24.24	24.37	-0.13
	30A	2A	[2A]	12A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5095	737.5	23.41	23.56	-0.15
[2A]-[2A]-12A-30A	[2A]	[2A]	12A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	10	9820	2355	24.22	24.3	-0.08
	12A	[2A]	[2A]	30A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	10	9820	2355	24.24	24.35	-0.11
	30A	[2A]	[2A]	12A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5095	737.5	23.41	23.56	-0.15
2A-2A-12A-[66A]	2A	2A	12A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	20	66786	2145	24.22	24.3	-0.08
	12A	2A	2A	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	66786	2145	24.24	24.29	-0.05
	[66A]	2A	2A	12A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5095	737.5	23.88	23.97	-0.09
[2A]-2A-12A-66A	2A	[2A]	12A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	20	66786	2145	24.22	24.33	-0.11
	[2A]	2A	12A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	20	66786	2145	24.22	24.32	-0.1
	12A	2A	[2A]	66A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	66786	2145	24.24	24.39	-0.15
	66A	2A	[2A]	12A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5095	737.5	23.88	23.93	-0.05

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 (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-12A-[66A]	2A	[2A]	12A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	20	66786	2145	24.22	24.24	-0.02
	[2A]	2A	12A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	20	66786	2145	24.22	24.35	-0.13
	12A	2A	[2A]	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	66786	2145	24.24	24.27	-0.03
	[66A]	2A	[2A]	12A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5095	737.5	23.88	23.9	-0.02
[2A]-[2A]-12A-66A	[2A]	[2A]	12A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5095	737.5	20	66786	2145	24.22	24.35	-0.13
	12A	[2A]	[2A]	66A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	700	1940	20	1100	1980	20	66786	2145	24.24	24.34	-0.1
	66A	[2A]	[2A]	12A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5095	737.5	23.88	24	-0.12
[2A]-2A-14A-30A	2A	[2A]	14A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	10	9820	2355	24.22	24.37	-0.15
	[2A]	2A	14A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	10	9820	2355	24.22	24.28	-0.06
	14A	2A	[2A]	30A	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	10	9820	2355	23.79	23.86	-0.07
	30A	2A	[2A]	14A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5330	763	23.41	23.56	-0.15
[2A]-[2A]-14A-30A	[2A]	[2A]	14A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	10	9820	2355	24.22	24.32	-0.1
	14A	[2A]	[2A]	30A	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	10	9820	2355	23.79	23.85	-0.06
	30A	[2A]	[2A]	14A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5330	763	23.41	23.51	-0.1
2A-2A-14A-[66A]	2A	2A	14A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	20	66786	2145	24.22	24.27	-0.05
	14A	2A	2A	[66A]	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	20	66786	2145	23.79	23.9	-0.11
	[66A]	2A	2A	14A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	24	-0.12
[2A]-2A-14A-66A	2A	[2A]	14A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	20	66786	2145	24.22	24.26	-0.04
	[2A]	2A	14A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	20	66786	2145	24.22	24.36	-0.14
	14A	2A	[2A]	66A	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	20	66786	2145	23.79	23.86	-0.07
	66A	2A	[2A]	14A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	23.97	-0.09
[2A]-2A-14A-[66A]	2A	[2A]	14A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	20	66786	2145	24.22	24.33	-0.11
	[2A]	2A	14A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	20	66786	2145	24.22	24.37	-0.15
	14A	2A	[2A]	[66A]	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	20	66786	2145	23.79	23.92	-0.13
	[66A]	2A	[2A]	14A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	23.97	-0.09
[2A]-[2A]-14A-66A	[2A]	[2A]	14A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	5330	763	20	66786	2145	24.22	24.25	-0.03
	14A	[2A]	[2A]	66A	QPSK	10	23330	793	1/0	10	5330	763	20	700	1940	20	1100	1980	20	66786	2145	23.79	23.84	-0.05
	66A	[2A]	[2A]	14A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	23.93	-0.05
[2A]-2A-29A-30A	2A	[2A]	29A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	10	9820	2355	24.22	24.26	-0.04
	[2A]	2A	29A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	10	9820	2355	24.22	24.34	-0.12
	30A	2A	[2A]	29A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5330	763	23.41	23.45	-0.04
[2A]-[2A]-29A-30A	[2A]	[2A]	29A	30A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	10	9820	2355	24.22	24.27	-0.05
	30A	[2A]	[2A]	29A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	10	5330	763	23.41	23.51	-0.1
2A-2A-29A-[66A]	2A	2A	29A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	20	66786	2145	24.22	24.36	-0.14
	[66A]	2A	2A	29A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	24.02	-0.14
[2A]-2A-29A-66A	2A	[2A]	29A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	20	66786	2145	24.22	24.31	-0.09
	[2A]	2A	29A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	20	66786	2145	24.22	24.37	-0.15
	66A	2A	[2A]	29A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	24.03	-0.15
[2A]-2A-29A-[66A]	2A	[2A]	29A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	20	66786	2145	24.22	24.35	-0.13
	[2A]	2A	29A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	20	66786	2145	24.22	24.34	-0.12
	[66A]	2A	[2A]	29A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	23.9	-0.02
[2A]-[2A]-29A-66A	[2A]	[2A]	29A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9715	722.5	20	66786	2145	24.22	24.3	-0.08
	66A	[2A]	[2A]	29A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	5330	763	23.88	23.93	-0.05
[2A]-2A-30A-66A	2A	[2A]	30A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9820	2355	20	66786	2145	24.22	24.27	-0.05
	[2A]	2A	30A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9820	2355	20	66786	2145	24.22	24.3	-0.08
	30A	2A	[2A]	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	20	66786	2145	24.13	24.15	-0.02
	66A	2A	[2A]	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	9820	2355	23.88	23.96	-0.08
[2A]-2A-30A-[66A]	2A	[2A]	30A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9820	2355	20	66786	2145	24.22	24.34	-0.12
	[2A]	2A	30A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9820	2355	20	66786	2145	24.22	24.32	-0.1
	30A	2A	[2A]	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	20	66786	2145	23.41	23.47	-0.06
	[66A]	2A	[2A]	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	9820	2355	23.88	24	-0.12

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 (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]-30A-66A	[2A]	[2A]	30A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	10	9820	2355	20	66786	2145	24.22	24.31	-0.09
	30A	[2A]	[2A]	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	700	1940	20	1100	1980	20	66786	2145	23.41	23.48	-0.07
	66A	[2A]	[2A]	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	10	9820	2355	23.88	23.98	-0.1
2A-[2A]-46C	2A	[2A]	46C	46C	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	50665	5537.5	20	50467	5517.7	24.22	24.31	-0.09
	[2A]	2A	46C	46C	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	50665	5537.5	20	50467	5517.7	24.22	24.32	-0.1
[2A]-[2A]-46C	[2A]	[2A]	46C	46C	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	50665	5537.5	20	50467	5517.7	24.22	24.31	-0.09
2A-2A-66A-[66A]	2A	2A	66A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	67036	2170	24.22	24.35	-0.13
	66A	[66A]	2A	2A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	23.84	23.85	-0.01
	[66A]	66A	2A	2A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	23.84	23.86	-0.02
2A-[2A]-66A-66A	2A	[2A]	66A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	67036	2170	24.22	24.37	-0.15
	[2A]	2A	66A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	67036	2170	24.22	24.25	-0.03
	66A	66A	2A	[2A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	23.84	23.9	-0.06
2A-2A-[66A]-[66A]	2A	2A	[66A]	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	67036	2170	24.22	24.29	-0.07
	[66A]	[66A]	2A	2A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	23.84	23.86	-0.02
2A-[2A]-66A-[66A]	2A	[2A]	66A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	67036	2170	24.22	24.23	-0.01
	[2A]	2A	66A	[66A]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	67036	2170	24.22	24.25	-0.03
	66A	[66A]	2A	[2A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	23.84	23.94	-0.1
	[66A]	66A	2A	[2A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	23.84	23.99	-0.15
[2A]-[2A]-66A-66A	[2A]	[2A]	66A	66A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	67036	2170	24.22	24.29	-0.07
	66A	66A	[2A]	[2A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	700	1940	20	1100	1980	23.84	23.86	-0.02
2A-2A-[66C]	2A	2A	[66C]	[66C]	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	66588	2125.2	24.22	24.34	-0.12
	[66C]	[66C]	2A	2A	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	700	1940	20	1100	1980	23.88	23.9	-0.02
[2A]-2A-66C	2A	[2A]	66C	66C	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	66588	2125.2	24.22	24.28	-0.06
	[2A]	2A	66C	66C	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	66588	2125.2	24.22	24.23	-0.01
	66C	66C	2A	[2A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	700	1940	20	1100	1980	23.88	24.01	-0.13
[2A]-[2A]-66C	[2A]	[2A]	66C	66C	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	66588	2125.2	24.22	24.26	-0.04
	66C	66C	[2A]	[2A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	700	1940	20	1100	1980	23.88	23.9	-0.02
2C-[66A]-66A	2C	2C	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	702	1940.2	20	66786	2145	20	67036	2170	24.37	24.42	-0.05
	66A	[66A]	2C	2C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	702	1940.2	23.84	23.85	-0.01
	[66A]	66A	2C	2C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	702	1940.2	23.84	23.85	-0.01
[2C]-66A-66A	[2C]	[2C]	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	702	1940.2	20	66786	2145	20	67036	2170	24.37	24.47	-0.1
	66A	66A	[2C]	[2C]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	702	1940.2	23.84	23.99	-0.15
2C-[66A]-[66A]	2C	2C	[66A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	702	1940.2	20	66786	2145	20	67036	2170	24.37	24.39	-0.02
	[66A]	[66A]	2C	2C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	702	1940.2	23.84	23.92	-0.08
2A-2A-[66A]-71A	2A	2A	[66A]	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	24.22	24.34	-0.12
	[66A]	2A	2A	71A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	20	68761	634.5	23.88	23.9	-0.02
	71A	2A	2A	[66A]	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	700	1940	20	1100	1980	20	66786	2145	24.64	24.7	-0.06
2A-[2A]-66A-71A	2A	[2A]	66A	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	24.22	24.32	-0.1
	[2A]	2A	66A	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	24.22	24.31	-0.09
	66A	2A	[2A]	71A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	20	68761	634.5	23.88	23.91	-0.03
	71A	2A	[2A]	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	700	1940	20	1100	1980	20	66786	2145	24.64	24.68	-0.04
2A-[2A]-[66A]-71A	2A	[2A]	[66A]	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	24.22	24.29	-0.07
	[2A]	2A	[66A]	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	24.22	24.34	-0.12
	[66A]	2A	[2A]	71A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	20	68761	634.5	23.88	23.93	-0.05
	71A	2A	[2A]	[66A]	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	700	1940	20	1100	1980	20	66786	2145	24.64	24.67	-0.03
[2A]-[2A]-66A-71A	[2A]	[2A]	66A	71A	QPSK	20	18700	1860	1/49	20	700	1940	20	1100	1980	20	66786	2145	20	68761	634.5	24.22	24.23	-0.01
	66A	[2A]	[2A]	71A	QPSK	20	132322	1745	1/49	20	66786	2145	20	700	1940	20	1100	1980	20	68761	634.5	23.88	24.03	-0.15
	71A	[2A]	[2A]	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	700	1940	20	1100	1980	20	66786	2145	24.64	24.76	-0.12
2A-[4A]-4A-5A	2A	4A	[4A]	5A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	2525	881.5	24.37	24.45	-0.08
	4A	[4A]	2A	5A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	2525	881.5	23.87	23.97	-0.1
	[4A]	4A	2A	5A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	2525	881.5	23.87	23.96	-0.09
	5A	2A	4A	[4A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	2050	2120	20	2300	2145	24.3	24.33	-0.03

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 (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-4A-5A	[2A]	4A	4A	5A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	2525	881.5	24.37	24.47	-0.1
	4A	4A	[2A]	5A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	2525	881.5	23.87	23.96	-0.09
	5A	[2A]	4A	4A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	2050	2120	20	2300	2145	24.3	24.35	-0.05
2A-[4A]-[4A]-5A	2A	[4A]	[4A]	5A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	2525	881.5	24.37	24.52	-0.15
	[4A]	[4A]	2A	5A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	2525	881.5	23.87	23.93	-0.06
	5A	2A	[4A]	[4A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	2050	2120	20	2300	2145	24.3	24.32	-0.02
[2A]-[4A]-4A-5A	[2A]	4A	[4A]	5A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	2525	881.5	24.37	24.44	-0.07
	4A	[4A]	[2A]	5A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	2525	881.5	23.87	23.99	-0.12
	[4A]	4A	[2A]	5A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	2525	881.5	23.87	23.91	-0.04
	5A	[4A]	4A	[4A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	2050	2120	20	2300	2145	24.3	24.44	-0.14
2A-[4A]-4A-12A	[2A]	4A	[4A]	12A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	5095	737.5	24.37	24.39	-0.02
	4A	[4A]	[2A]	12A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	5095	737.5	23.87	24.02	-0.15
	[4A]	4A	[2A]	12A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	5095	737.5	23.87	23.88	-0.01
	12A	[2A]	4A	[4A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	2050	2120	20	2300	2145	24.24	24.37	-0.13
[2A]-4A-4A-12A	[2A]	4A	4A	12A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	5095	737.5	24.37	24.47	-0.1
	4A	4A	[2A]	12A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	5095	737.5	23.87	23.97	-0.1
	12A	[2A]	4A	4A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	2050	2120	20	2300	2145	24.24	24.36	-0.12
2A-[4A]-[4A]-12A	2A	[4A]	[4A]	12A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	5095	737.5	24.37	24.39	-0.02
	[4A]	[4A]	2A	12A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	5095	737.5	23.87	23.91	-0.04
	12A	2A	[4A]	[4A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	2050	2120	20	2300	2145	24.24	24.37	-0.13
[2A]-[4A]-4A-12A	[2A]	4A	[4A]	12A	QPSK	20	18900	1880	1/49	20	900	1960	20	2050	2120	20	2300	2145	10	5095	737.5	24.37	24.49	-0.12
	4A	[4A]	[2A]	12A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	5095	737.5	23.87	24.01	-0.14
	[4A]	4A	[2A]	12A	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	900	1960	10	5095	737.5	23.87	23.92	-0.05
	12A	[2A]	4A	[4A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	2050	2120	20	2300	2145	24.24	24.26	-0.02
2A-[4A]-12B	2A	[4A]	12B	12B	QPSK	20	18900	1880	1/49	20	900	1960	20	2175	2132.5	5	5095	737.5	5	5047	732.7	24.37	24.52	-0.15
	[4A]	2A	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	5	5095	737.5	5	5047	732.7	23.95	24.06	-0.11
	12B	12B	2A	[4A]	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5047	732.7	20	900	1960	20	2175	2132.5	24.21	24.24	-0.03
[2A]-4A-12B	[2A]	4A	12B	12B	QPSK	20	18900	1880	1/49	20	900	1960	20	2175	2132.5	5	5095	737.5	5	5047	732.7	24.37	24.5	-0.13
	4A	[2A]	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	5	5095	737.5	5	5047	732.7	23.95	23.97	-0.02
	12B	12B	[2A]	4A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5047	732.7	20	900	1960	20	2175	2132.5	24.21	24.27	-0.06
[2A]-[4A]-12B	[2A]	[4A]	12B	12B	QPSK	20	18900	1880	1/49	20	900	1960	20	2175	2132.5	5	5095	737.5	5	5047	732.7	24.37	24.41	-0.04
	[4A]	[2A]	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	5	5095	737.5	5	5047	732.7	23.95	23.97	-0.02
	12B	12B	[2A]	[4A]	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5047	732.7	20	900	1960	20	2175	2132.5	24.21	24.36	-0.15
[2A]-5B-30A	[2A]	5B	5B	30A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	5	2453	874.3	10	9820	2355	24.37	24.4	-0.03
	5B	5B	[2A]	30A	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	20	900	1960	10	9820	2355	24.3	24.32	-0.02
	30A	[2A]	5B	5B	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	2525	881.5	5	2453	874.3	23.41	23.48	-0.07
2A-5B-[66A]	2A	5B	5B	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	5	2453	874.3	20	66786	2145	24.37	24.44	-0.07
	5B	5B	2A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	20	900	1960	20	66786	2145	24.3	24.31	-0.01
	[66A]	2A	5B	5B	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	5	2453	874.3	23.88	23.93	-0.05
[2A]-5B-66A	[2A]	5B	5B	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	5	2453	874.3	20	66786	2145	24.37	24.45	-0.08
	5B	5B	[2A]	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	20	900	1960	20	66786	2145	24.3	24.33	-0.03
	66A	[2A]	5B	5B	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	5	2453	874.3	23.88	23.9	-0.02
[2A]-5B-[66A]	[2A]	5B	5B	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	5	2453	874.3	20	66786	2145	24.37	24.42	-0.05
	5B	5B	[2A]	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	5	2453	874.3	20	900	1960	20	66786	2145	24.3	24.42	-0.12
	[66A]	[2A]	5B	5B	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	5	2453	874.3	23.88	24.03	-0.15
2A-5A-30A-[66A]	2A	5A	30A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	10	9820	2355	20	66786	2145	24.37	24.49	-0.12
	5A	2A	30A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	10	9820	2355	20	66786	2145	24.3	24.33	-0.03
	30A	2A	5A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	2525	881.5	20	66786	2145	23.41	23.51	-0.1
	[66A]	2A	5A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	10	9820	2355	23.88	23.92	-0.04

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 (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]-5A-30A-66A	[2A]	5A	30A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	10	9820	2355	20	66786	2145	24.37	24.44	-0.07
	5A	[2A]	30A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	10	9820	2355	20	66786	2145	24.3	24.37	-0.07
	30A	[2A]	5A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	2525	881.5	20	66786	2145	23.41	23.5	-0.09
	66A	[2A]	5A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	10	9820	2355	23.88	23.94	-0.06
[2A]-5A-30A-[66A]	[2A]	5A	30A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	10	9820	2355	20	66786	2145	24.37	24.49	-0.12
	5A	[2A]	30A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	10	9820	2355	20	66786	2145	24.3	24.37	-0.07
	30A	[2A]	5A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	2525	881.5	20	66786	2145	23.41	23.47	-0.06
	[66A]	[2A]	5A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	10	9820	2355	23.88	24	-0.12
2A-5A-[48C]	2A	5A	[48C]	[48C]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	24.37	24.46	-0.09
	5A	2A	[48C]	[48C]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	55575	3583.5	24.3	24.37	-0.07
[2A]-5A-48C	[2A]	5A	48C	48C	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	24.37	24.39	-0.02
	5A	[2A]	48C	48C	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	55575	3583.5	24.3	24.35	-0.05
2A-5A-48A-[66A]	2A	5A	48A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	66786	2145	24.37	24.42	-0.05
	5A	2A	48A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	66786	2145	24.3	24.44	-0.14
	[66A]	2A	5A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	20	55773	3603.3	23.88	23.98	-0.1
2A-5A-[48A]-66A	2A	5A	[48A]	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	66786	2145	24.37	24.45	-0.08
	5A	2A	[48A]	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	66786	2145	24.3	24.39	-0.09
	66A	2A	5A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	20	55773	3603.3	23.88	23.99	-0.11
[2A]-5A-48A-66A	[2A]	5A	48A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	66786	2145	24.37	24.48	-0.11
	5A	[2A]	48A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	66786	2145	24.3	24.31	-0.01
	66A	[2A]	5A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	20	55773	3603.3	23.88	23.92	-0.04
2A-5A-[48A]-[66A]	2A	5A	[48A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	66786	2145	24.37	24.43	-0.06
	5A	2A	[48A]	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	66786	2145	24.3	24.36	-0.06
	[66A]	2A	5A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	20	55773	3603.3	23.88	23.95	-0.07
[2A]-5A-48A-[66A]	[2A]	5A	48A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	66786	2145	24.37	24.46	-0.09
	5A	[2A]	48A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	66786	2145	24.3	24.31	-0.01
	[66A]	[2A]	5A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	20	55773	3603.3	23.88	24.03	-0.15
[2A]-5A-[48A]-66A	[2A]	5A	[48A]	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	55773	3603.3	20	66786	2145	24.37	24.49	-0.12
	5A	[2A]	[48A]	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	55773	3603.3	20	66786	2145	24.3	24.41	-0.11
	66A	[2A]	5A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	2525	881.5	20	55773	3603.3	23.88	23.9	-0.02
2A-5A-[66A]-66A	2A	5A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	66786	2145	20	67036	2170	24.37	24.39	-0.02
	5A	2A	66A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	66786	2145	20	67036	2170	24.3	24.34	-0.04
	66A	[66A]	2A	5A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	23.84	23.97	-0.13
	[66A]	66A	2A	5A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	23.84	23.99	-0.15
[2A]-5A-66A-66A	[2A]	5A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	66786	2145	20	67036	2170	24.37	24.4	-0.03
	5A	[2A]	66A	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	66786	2145	20	67036	2170	24.3	24.43	-0.13
	66A	66A	[2A]	5A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	23.84	23.88	-0.04
2A-5A-[66A]-[66A]	2A	5A	[66A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	66786	2145	20	67036	2170	24.37	24.44	-0.07
	5A	2A	[66A]	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	66786	2145	20	67036	2170	24.3	24.44	-0.14
	[66A]	[66A]	2A	5A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	23.84	23.9	-0.06
[2A]-5A-[66A]-66A	[2A]	5A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	2525	881.5	20	66786	2145	20	67036	2170	24.37	24.4	-0.03
	5A	[2A]	66A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	900	1960	20	66786	2145	20	67036	2170	24.3	24.33	-0.03
	66A	[66A]	[2A]	5A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	23.84	23.96	-0.12
	[66A]	66A	[2A]	5A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	2525	881.5	23.84	23.96	-0.12
2A-12B-[66A]	2A	12B	12B	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	5	5095	737.5	5	5047	732.7	20	66786	2145	24.37	24.42	-0.05
	12B	12B	2A	[66A]	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5047	732.7	20	900	1960	20	66786	2145	24.21	24.27	-0.06
	[66A]	2A	12B	12B	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	5	5095	737.5	5	5047	732.7	23.88	24.02	-0.14
[2A]-12B-66A	[2A]	12B	12B	66A	QPSK	20	18900	1880	1/49	20	900	1960	5	5095	737.5	5	5047	732.7	20	66786	2145	24.37	24.48	-0.11
	12B	12B	[2A]	66A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5047	732.7	20	900	1960	20	66786	2145	24.21	24.35	-0.14
	66A	[2A]	12B	12B	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	5	5095	737.5	5	5047	732.7	23.88	24.01	-0.13
[2A]-12B-[66A]	[2A]	12B	12B	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	5	5095	737.5	5	5047	732.7	20	66786	2145	24.37	24.5	-0.13
	12B	12B	[2A]	[66A]	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5047	732.7	20	900	1960	20	66786	2145	24.21	24.34	-0.13
	[66A]	[2A]	12B	12B	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	5	5095	737.5	5	5047	732.7	23.88	23.89	-0.01

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 (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-12A-30A-[66A]	2A	12A	30A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	10	9820	2355	20	66786	2145	24.37	24.4	-0.03
	12A	2A	30A	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	10	9820	2355	20	66786	2145	24.24	24.38	-0.14
	30A	2A	12A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	5095	737.5	20	66786	2145	23.41	23.48	-0.07
	[66A]	2A	12A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5095	737.5	10	9820	2355	23.88	23.99	-0.11
[2A]-12A-30A-66A	[2A]	12A	30A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	10	9820	2355	20	66786	2145	24.37	24.51	-0.14
	12A	[2A]	30A	66A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	10	9820	2355	20	66786	2145	24.24	24.33	-0.09
	30A	[2A]	12A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	5095	737.5	20	66786	2145	23.41	23.54	-0.13
	66A	[2A]	12A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5095	737.5	10	9820	2355	23.88	23.94	-0.06
[2A]-12A-30A-[66A]	[2A]	12A	30A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	10	9820	2355	20	66786	2145	24.37	24.44	-0.07
	12A	[2A]	30A	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	10	9820	2355	20	66786	2145	24.24	24.38	-0.14
	30A	[2A]	12A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	5095	737.5	20	66786	2145	23.41	23.46	-0.05
	[66A]	[2A]	12A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5095	737.5	10	9820	2355	23.88	24	-0.12
2A-12A-[66A]-66A	2A	12A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	20	66786	2145	20	67036	2170	24.37	24.46	-0.09
	12A	2A	66A	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	66786	2145	20	67036	2170	24.24	24.33	-0.09
	66A	[66A]	2A	12A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	23.84	23.97	-0.13
	[66A]	66A	2A	12A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	23.84	23.96	-0.12
[2A]-12A-66A-66A	[2A]	12A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	20	66786	2145	20	67036	2170	24.37	24.49	-0.12
	12A	[2A]	66A	66A	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	66786	2145	20	67036	2170	24.24	24.31	-0.07
	66A	66A	[2A]	12A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	23.84	23.97	-0.13
2A-12A-[66A]-[66A]	2A	12A	[66A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	20	66786	2145	20	67036	2170	24.37	24.5	-0.13
	12A	2A	[66A]	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	66786	2145	20	67036	2170	24.24	24.33	-0.09
	[66A]	[66A]	2A	12A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	23.84	23.88	-0.04
[2A]-12A-[66A]-66A	[2A]	12A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	20	66786	2145	20	67036	2170	24.37	24.45	-0.08
	12A	[2A]	66A	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	66786	2145	20	67036	2170	24.24	24.32	-0.08
	66A	[66A]	[2A]	12A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	23.84	23.97	-0.13
	[66A]	66A	[2A]	12A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5095	737.5	23.84	23.89	-0.05
2A-12A-[66C]	2A	12A	[66C]	[66C]	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	20	66786	2145	20	66588	2125.2	24.37	24.47	-0.1
	12A	2A	[66C]	[66C]	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	66786	2145	20	66588	2125.2	24.24	24.34	-0.1
	[66C]	[66C]	2A	12A	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	900	1960	10	5095	737.5	23.88	24.03	-0.15
[2A]-12A-66C	[2A]	12A	66C	66C	QPSK	20	18900	1880	1/49	20	900	1960	10	5095	737.5	20	66786	2145	20	66588	2125.2	24.37	24.48	-0.11
	12A	[2A]	66C	66C	QPSK	10	23095	707.5	1/25	10	5095	737.5	20	900	1960	20	66786	2145	20	66588	2125.2	24.24	24.31	-0.07
	66C	66C	[2A]	12A	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	900	1960	10	5095	737.5	23.88	23.97	-0.09
2A-14A-30A-[66A]	2A	14A	30A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	10	9820	2355	20	66786	2145	24.37	24.49	-0.12
	14A	2A	30A	[66A]	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	10	9820	2355	20	66786	2145	23.79	23.8	-0.01
	30A	2A	14A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	5330	763	20	66786	2145	23.41	23.42	-0.01
	[66A]	2A	14A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5330	763	10	9820	2355	23.88	23.89	-0.01
[2A]-14A-30A-66A	[2A]	14A	30A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	10	9820	2355	20	66786	2145	24.37	24.44	-0.07
	14A	[2A]	30A	66A	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	10	9820	2355	20	66786	2145	23.79	23.94	-0.15
	30A	[2A]	14A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	5330	763	20	66786	2145	23.41	23.56	-0.15
	66A	[2A]	14A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5330	763	10	9820	2355	23.88	23.94	-0.06
[2A]-14A-30A-[66A]	[2A]	14A	30A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	10	9820	2355	20	66786	2145	24.37	24.4	-0.03
	14A	[2A]	30A	[66A]	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	10	9820	2355	20	66786	2145	23.79	23.85	-0.06
	30A	[2A]	14A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	5330	763	20	66786	2145	23.41	23.46	-0.05
	[66A]	[2A]	14A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	5330	763	10	9820	2355	23.88	23.9	-0.02
2A-14A-[66A]-66A	2A	14A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	20	66786	2145	20	67036	2170	24.37	24.5	-0.13
	14A	2A	66A	[66A]	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	20	66786	2145	20	67036	2170	23.79	23.91	-0.12
	66A	[66A]	2A	14A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	23.84	23.92	-0.08
	[66A]	66A	2A	14A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	23.84	23.89	-0.05
[2A]-14A-66A-66A	[2A]	14A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	20	66786	2145	20	67036	2170	24.37	24.38	-0.01
	14A	[2A]	66A	66A	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	20	66786	2145	20	67036	2170	23.79	23.87	-0.08
	66A	66A	[2A]	14A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	23.84	23.96	-0.12
2A-14A-[66A]-[66A]	2A	14A	[66A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	20	66786	2145	20	67036	2170	24.37	24.51	-0.14
	14A	2A	[66A]	[66A]	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	20	66786	2145	20	67036	2170	23.79	23.91	-0.12
	[66A]	[66A]	2A	14A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	23.84	23.98	-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.

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]-14A-[66A]-66A	[2A]	14A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	5330	763	20	66786	2145	20	67036	2170	24.37	24.42	-0.05
	14A	[2A]	66A	[66A]	QPSK	10	23330	793	1/0	10	5330	763	20	900	1960	20	66786	2145	20	67036	2170	23.79	23.8	-0.01
	66A	[66A]	[2A]	14A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	23.84	23.99	-0.15
	[66A]	66A	[2A]	14A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	5330	763	23.84	23.97	-0.13
2A-29A-30A-[66A]	2A	29A	30A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	10	9820	2355	20	66786	2145	24.37	24.44	-0.07
	30A	2A	29A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	9715	722.5	20	66786	2145	23.41	23.48	-0.07
	[66A]	2A	29A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	9715	722.5	10	9820	2355	23.88	23.98	-0.1
[2A]-29A-30A-66A	[2A]	29A	30A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	10	9820	2355	20	66786	2145	24.37	24.44	-0.07
	30A	[2A]	29A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	9715	722.5	20	66786	2145	23.41	23.54	-0.13
	66A	[2A]	29A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	9715	722.5	10	9820	2355	23.88	24.03	-0.15
[2A]-29A-30A-[66A]	[2A]	29A	30A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	10	9820	2355	20	66786	2145	24.37	24.38	-0.01
	30A	[2A]	29A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	10	9715	722.5	20	66786	2145	23.41	23.46	-0.05
	[66A]	[2A]	29A	30A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	10	9715	722.5	10	9820	2355	23.88	23.97	-0.09
2A-29A-[66A]-66A	2A	29A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	20	66786	2145	20	67036	2170	24.37	24.47	-0.1
	66A	[66A]	2A	29A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9715	722.5	23.84	23.92	-0.08
	[66A]	66A	2A	29A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9715	722.5	23.84	23.97	-0.13
[2A]-29A-66A-66A	[2A]	29A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	20	66786	2145	20	67036	2170	24.37	24.48	-0.11
	66A	66A	[2A]	29A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9715	722.5	23.84	23.94	-0.1
2A-29A-[66A]-[66A]	2A	29A	[66A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	20	66786	2145	20	67036	2170	24.37	24.44	-0.07
	[66A]	[66A]	2A	29A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9715	722.5	23.84	23.94	-0.1
[2A]-29A-[66A]-66A	[2A]	29A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	9715	722.5	20	66786	2145	20	67036	2170	24.37	24.49	-0.12
	66A	[66A]	[2A]	29A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9715	722.5	23.84	23.98	-0.14
	[66A]	66A	[2A]	29A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9715	722.5	23.84	23.88	-0.04
2A-30A-[66A]-66A	2A	30A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	9820	2355	20	66786	2145	20	67036	2170	24.37	24.45	-0.08
	30A	2A	66A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	23.41	23.48	-0.07
	66A	[66A]	2A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9820	2355	23.84	23.98	-0.14
	[66A]	66A	2A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9820	2355	23.84	23.93	-0.09
[2A]-30A-66A-66A	[2A]	30A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	10	9820	2355	20	66786	2145	20	67036	2170	24.37	24.49	-0.12
	30A	[2A]	66A	66A	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	23.41	23.44	-0.03
	66A	66A	[2A]	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9820	2355	23.84	23.87	-0.03
2A-30A-[66A]-[66A]	2A	30A	[66A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	9820	2355	20	66786	2145	20	67036	2170	24.37	24.5	-0.13
	30A	2A	[66A]	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	23.41	23.51	-0.1
	[66A]	[66A]	2A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9820	2355	23.84	23.92	-0.08
[2A]-30A-[66A]-66A	[2A]	30A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	10	9820	2355	20	66786	2145	20	67036	2170	24.37	24.41	-0.04
	30A	[2A]	66A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	23.41	23.43	-0.02
	66A	[66A]	[2A]	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9820	2355	23.84	23.86	-0.02
	[66A]	66A	[2A]	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	10	9820	2355	23.84	23.96	-0.12
[2A]-46A-46C	[2A]	46A	46C	46C	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	46790	5150	20	46988	5169.8	24.37	24.5	-0.13
[2A]-46D	[2A]	46D	46D	46D	QPSK	20	18900	1880	1/49	20	900	1960	20	48665	5337.5	20	48467	5317.7	20	48863	5357.3	24.37	24.38	-0.01
2A-46C-[48A]	2A	46C	46C	[48A]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	50467	5517.7	20	55773	3603.3	24.37	24.52	-0.15
[2A]-46C-48A	[2A]	46C	46C	48A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	50467	5517.7	20	55773	3603.3	24.37	24.52	-0.15
[2A]-46C-[48A]	[2A]	46C	46C	[48A]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	50467	5517.7	20	55773	3603.3	24.37	24.42	-0.05
2A-46A-46A-[66A]	2A	46A	46A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	54539	5925	20	66786	2145	24.37	24.52	-0.15
	[66A]	2A	46A	46A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	54539	5925	23.88	23.9	-0.02
[2A]-46A-46A-66A	[2A]	46A	46A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	54539	5925	20	66786	2145	24.37	24.46	-0.09
	66A	[2A]	46A	46A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	54539	5925	23.88	23.99	-0.11
[2A]-46A-46A-[66A]	[2A]	46A	46A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	54539	5925	20	66786	2145	24.37	24.46	-0.09
	66A	[2A]	46A	46A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	54539	5925	23.88	23.94	-0.06

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 (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-46C-[66A]	2A	46C	46C	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.37	24.39	-0.02
	[66A]	2A	46C	46C	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	50467	5517.7	23.88	23.93	-0.05
[2A]-46C-66A	[2A]	46C	46C	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.37	24.5	-0.13
	66A	[2A]	46C	46C	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	50467	5517.7	23.88	24	-0.12
[2A]-46C-[66A]	[2A]	46C	46C	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.37	24.4	-0.03
	[66A]	[2A]	46C	46C	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	50467	5517.7	23.88	23.96	-0.08
2A-46A-[48C]	2A	46A	[48C]	[48C]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	55575	3583.5	24.37	24.49	-0.12
[2A]-46A-48C	[2A]	46A	48C	48C	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	55575	3583.5	24.37	24.51	-0.14
2A-46A-48A-[66A]	2A	46A	48A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	66786	2145	24.37	24.44	-0.07
	[66A]	2A	46A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	55773	3603.3	23.88	23.9	-0.02
2A-46A-[48A]-66A	2A	46A	[48A]	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	66786	2145	24.37	24.48	-0.11
	66A	2A	46A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	55773	3603.3	23.88	24.03	-0.15
[2A]-46A-48A-66A	[2A]	46A	48A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	66786	2145	24.37	24.5	-0.13
	66A	[2A]	46A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	55773	3603.3	23.88	24.01	-0.13
2A-46A-[48A]-[66A]	2A	46A	[48A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	66786	2145	24.37	24.52	-0.15
	[66A]	2A	46A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	55773	3603.3	23.88	23.91	-0.03
[2A]-46A-48A-[66A]	[2A]	46A	48A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	66786	2145	24.37	24.51	-0.14
	[66A]	[2A]	46A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	55773	3603.3	23.88	23.91	-0.03
[2A]-46A-[48A]-66A	[2A]	46A	[48A]	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	50665	5537.5	20	55773	3603.3	20	66786	2145	24.37	24.4	-0.03
	66A	[2A]	46A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	50665	5537.5	20	55773	3603.3	23.88	24	-0.12
2A-48A-[48C]	2A	48A	[48C]	[48C]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	56442	3670.2	24.37	24.42	-0.05
2A-[48A]-48C	2A	[48A]	48C	48C	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	56442	3670.2	24.37	24.46	-0.09
[2A]-48A-48C	[2A]	48A	48C	48C	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	56442	3670.2	24.37	24.43	-0.06
[2A]-[48A]-48C	[2A]	[48A]	48C	48C	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	56442	3670.2	24.37	24.38	-0.01
[2A]-48D	[2A]	48D	48D	48D	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	55575	3583.5	20	55971	3623.1	24.37	24.51	-0.14
2A-48A-48A-[66A]	2A	48A	48A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	66786	2145	24.37	24.43	-0.06
	[66A]	2A	48A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	56640	3690	23.88	23.93	-0.05
2A-[48A]-48A-66A	2A	48A	[48A]	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	66786	2145	24.37	24.39	-0.02
	66A	2A	48A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	56640	3690	23.88	23.91	-0.03
[2A]-48A-48A-66A	[2A]	48A	48A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	66786	2145	24.37	24.49	-0.12
	66A	[2A]	48A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	56640	3690	23.88	23.97	-0.09
2A-[48A]-48A-[66A]	2A	48A	[48A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	66786	2145	24.37	24.41	-0.04
	[66A]	2A	48A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	56640	3690	23.88	23.94	-0.06
[2A]-48A-48A-[66A]	[2A]	48A	48A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	66786	2145	24.37	24.45	-0.08
	[66A]	[2A]	48A	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	56640	3690	23.88	23.95	-0.07
2A-[48A]-[48A]-66A	2A	[48A]	[48A]	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	66786	2145	24.37	24.41	-0.04
	66A	2A	[48A]	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	56640	3690	23.88	23.98	-0.1
[2A]-[48A]-48A-66A	[2A]	48A	[48A]	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	56640	3690	20	66786	2145	24.37	24.43	-0.06
	66A	[2A]	48A	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	56640	3690	23.88	24	-0.12
2A-48C-[66A]	2A	48C	48C	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	55575	3583.5	20	66786	2145	24.37	24.5	-0.13
	[66A]	2A	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	55575	3583.5	23.88	23.9	-0.02
2A-[48C]-66A	2A	[48C]	[48C]	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	55575	3583.5	20	66786	2145	24.37	24.45	-0.08
	66A	2A	[48C]	[48C]	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	55575	3583.5	23.88	23.89	-0.01
[2A]-48C-66A	[2A]	48C	48C	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	55575	3583.5	20	66786	2145	24.37	24.39	-0.02
	66A	[2A]	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	55575	3583.5	23.88	23.98	-0.1
[2A]-48C-[66A]	[2A]	48C	48C	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	55575	3583.5	20	66786	2145	24.37	24.51	-0.14
	[66A]	[2A]	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	900	1960	20	55773	3603.3	20	55575	3583.5	23.88	24.02	-0.14
2A-48A-[66A]-66A	2A	48A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145	20	67036	2170	24.37	24.49	-0.12
	66A	[66A]	2A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.94	-0.1
	[66A]	66A	2A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.86	-0.02
2A-48A-[66A]-[66A]	2A	48A	[66A]	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145	20	67036	2170	24.37	24.49	-0.12
	[66A]	[66A]	2A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.85	-0.01

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 (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-[48A]-66A-66A	2A	[48A]	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145	20	67036	2170	24.37	24.46	-0.09
	66A	66A	2A	[48A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.99	-0.15
2A-[48A]-66A-[66A]	2A	[48A]	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145	20	67036	2170	24.37	24.44	-0.07
	66A	[66A]	2A	[48A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.9	-0.06
	[66A]	66A	2A	[48A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.87	-0.03
[2A]-48A-66A-66A	[2A]	48A	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145	20	67036	2170	24.37	24.5	-0.13
	66A	66A	[2A]	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.87	-0.03
[2A]-[48A]-66A-66A	[2A]	[48A]	66A	66A	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145	20	67036	2170	24.37	24.44	-0.07
	66A	66A	[2A]	[48A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.93	-0.09
[2A]-48A-[66A]-66A	[2A]	48A	66A	[66A]	QPSK	20	18900	1880	1/49	20	900	1960	20	55773	3603.3	20	66786	2145	20	67036	2170	24.37	24.44	-0.07
	66A	[66A]	[2A]	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.91	-0.07
	[66A]	66A	[2A]	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	55773	3603.3	23.84	23.85	-0.01
2A-66A-[66A]-71A	2A	66A	[66A]	71A	QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	67036	2170	20	68761	634.5	24.37	24.47	-0.1
	66A	[66A]	2A	71A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	23.84	23.85	-0.01
	[66A]	66A	2A	71A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	23.84	23.94	-0.1
	71A	2A	66A	[66A]	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	67036	2170	24.64	24.74	-0.1
[2A]-66A-66A-71A	[2A]	66A	66A	71A	QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	67036	2170	20	68761	634.5	24.37	24.51	-0.14
	66A	66A	[2A]	71A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	23.84	23.89	-0.05
	71A	[2A]	66A	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	67036	2170	24.64	24.73	-0.09
2A-[66A]-[66A]-71A	2A	[66A]	[66A]	71A	QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	67036	2170	20	68761	634.5	24.37	24.49	-0.12
	[66A]	[66A]	2A	71	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	23.84	23.96	-0.12
	71A	2A	[66A]	[66A]	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	67036	2170	24.64	24.68	-0.04
[2A]-66A-[66A]-71A	[2A]	66A	[66A]	71A	QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	67036	2170	20	68761	634.5	24.37	24.5	-0.13
	66A	[66A]	[2A]	71A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	23.84	23.87	-0.03
	[66A]	66A	[2A]	71A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	900	1960	20	68761	634.5	23.84	23.97	-0.13
	71A	[2A]	66A	[66A]	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	67036	2170	24.64	24.68	-0.04
2A-[66C]-71A	2A	[66C]	[66C]	71A	QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	66588	2125.2	20	68761	634.5	24.37	24.47	-0.1
	[66C]	[66C]	2A	71A	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	900	1960	20	68761	634.5	23.88	24	-0.12
	71A	2A	[66C]	[66C]	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	66588	2125.2	24.64	24.69	-0.05
[2A]-66C-71A	[2A]	66C	66C	71A	QPSK	20	18900	1880	1/49	20	900	1960	20	66786	2145	20	66588	2125.2	20	68761	634.5	24.37	24.48	-0.11
	66C	66C	[2A]	71A	QPSK	20	132322	1745	1/49	20	66786	2145	20	66588	2125.2	20	900	1960	20	68761	634.5	23.88	23.92	-0.04
	71A	[2A]	66C	66C	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	66588	2125.2	24.64	24.78	-0.14
[4A]-4A-12B	4A	[4A]	12B	12B	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	5	5095	737.5	5	5047	732.7	23.87	23.89	-0.02
	[4A]	4A	12B	12B	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	5	5095	737.5	5	5047	732.7	23.87	23.9	-0.03
	12B	12B	4A	[4A]	QPSK	5	23095	707.5	1/12	10	5095	737.5	5	5047	732.7	20	2050	2120	20	2300	2145	24.21	24.33	-0.12
[4A]-[4A]-12B	[4A]	[4A]	12B	12B	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	5	5095	737.5	5	5047	732.7	23.87	23.91	-0.04
	12B	12B	[4A]	[4A]	QPSK	5	23095	707.5	1/12	10	5095	737.5	5	5047	732.7	20	2050	2120	20	2300	2145	24.21	24.36	-0.15
[4A]-46A-46C	[4A]	46A	46C	46C	QPSK	20	20050	1720	1/99	20	2050	2120	20	2300	2145	20	50665	5537.5	20	50467	5517.7	23.87	23.94	-0.07
[4A]-46D	[4A]	46D	46D	46D	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	50665	5537.5	50467	50467	5517.7	20	50863	5557.3	23.95	24	-0.05
5B-30A-[66A]	5B	5B	30A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	2525	874.3	10	9820	2355	20	66786	2145	24.3	24.34	-0.04
	30A	5B	5B	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	2525	881.5	5	2453	874.3	20	66786	2145	23.41	23.42	-0.01
	[66A]	5B	5B	30A	QPSK	20	132322	1745	1/49	20	66786	2145	10	2525	881.5	5	2453	874.3	10	9820	2355	23.88	23.95	-0.07
5B-[66A]-66A	5B	5B	66A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	2525	874.3	20	66786	2145	20	67036	2170	24.3	24.44	-0.14
	66A	[66A]	5B	5B	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	5	2453	874.3	23.84	23.97	-0.13
	[66A]	66A	5B	5B	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	5	2453	874.3	23.84	23.86	-0.02
5B-[66A]-[66A]	5B	5B	[66A]	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	2525	874.3	20	66786	2145	20	67036	2170	24.3	24.34	-0.04
	[66A]	[66A]	5B	5B	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	5	2453	874.3	23.84	23.95	-0.11
5A-30A-[66A]-66A	5A	30A	66A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	10	9820	2355	20	66786	2145	20	67036	2170	24.3	24.39	-0.09
	30A	5A	66A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	2525	881.5	20	66786	2145	20	67036	2170	23.41	23.55	-0.14
	66A	[66A]	5A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	10	9820	2355	23.84	23.9	-0.06
	[66A]	66A	5A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	10	9820	2355	23.84	23.86	-0.02

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 (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)			
5A-30A-[66A]-[66A]	5A	30A	[66A]	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	10	9820	2355	20	66786	2145	20	67036	2170	24.3	24.39	-0.09
	30A	5A	[66A]	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	2525	881.5	20	66786	2145	20	67036	2170	23.41	23.46	-0.05
	[66A]	[66A]	5A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	10	9820	2355	23.84	23.99	-0.15
5A-48C-[66A]	5A	48C	48C	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	20	66786	2145	24.3	24.39	-0.09
	[66A]	5A	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	23.88	23.92	-0.04
5A-[48C]-66A	5A	[48C]	[48C]	66A	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	20	66786	2145	24.3	24.35	-0.05
	66A	5A	[48C]	[48C]	QPSK	20	132322	1745	1/49	20	66786	2145	10	2525	881.5	20	55773	3603.3	20	55575	3583.5	23.88	23.89	-0.01
5A-48A-66A-[66A]	5A	48A	66A	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	55773	3603.3	20	66786	2145	20	67036	2170	24.3	24.42	-0.12
	66A	[66A]	5A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	20	55773	3603.3	23.84	23.9	-0.06
	[66A]	66A	5A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	20	55773	3603.3	23.84	23.92	-0.08
5A-48A-[66A]-[66A]	5A	48A	[66A]	[66A]	QPSK	10	20525	836.5	1/25	10	2525	881.5	20	55773	3603.3	20	66786	2145	20	67036	2170	24.3	24.31	-0.01
	[66A]	[66A]	5A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	2525	881.5	20	55773	3603.3	23.84	23.89	-0.05
12A-30A-[66A]-66A	12A	30A	66A	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	10	9820	2355	20	66786	2145	20	67036	2170	24.24	24.35	-0.11
	30A	12A	66A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	5095	737.5	20	66786	2145	20	67036	2170	23.41	23.42	-0.01
	66A	[66A]	12A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5	10	9820	2355	23.84	23.99	-0.15
	[66A]	66A	12A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5	10	9820	2355	23.84	23.95	-0.11
12A-30A-[66A]-[66A]	12A	30A	[66A]	[66A]	QPSK	10	23095	707.5	1/25	10	5095	737.5	10	9820	2355	20	66786	2145	20	67036	2170	24.24	24.35	-0.11
	30A	12A	[66A]	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	5095	737.5	20	66786	2145	20	67036	2170	23.41	23.45	-0.04
	[66A]	[66A]	12A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5	10	9820	2355	23.84	23.85	-0.01
14A-30A-[66A]-66A	14A	30A	66A	[66A]	QPSK	10	23330	793	1/0	10	5330	763	10	9820	2355	20	66786	2145	10	67036	2170	23.79	23.87	-0.08
	30A	14A	66A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	5330	763	20	66786	2145	20	67036	2170	23.41	23.54	-0.13
	66A	[66A]	14A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5	10	5330	763	23.84	23.93	-0.09
	[66A]	66A	14A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5	10	5330	763	23.84	23.97	-0.13
14A-30A-[66A]-[66A]	14A	30A	[66A]	[66A]	QPSK	10	23330	793	1/0	10	5330	763	10	9820	2355	20	66786	2145	10	67036	2170	23.79	23.83	-0.04
	30A	14A	[66A]	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	5330	763	20	66786	2145	20	67036	2170	23.41	23.56	-0.15
	[66A]	[66A]	14A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	5095	737.5	10	5330	763	23.84	23.97	-0.13
[25A]-41D	[25A]	41D	41D	41D	QPSK	20	26140	1860	1/0	20	8140	1940	20	40620	2593	20	40422	2573.2	20	40818	2612.8	24.26	24.38	-0.12
29A-30A-[66A]-66A	30A	29A	66A	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	9715	722.5	20	66786	2145	20	67036	2170	23.41	23.54	-0.13
	66A	[66A]	29A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	9715	722.5	10	5330	763	23.84	23.96	-0.12
	[66A]	66A	29A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	9715	722.5	10	5330	763	23.84	23.87	-0.03
29A-30A-[66A]-[66A]	30A	29A	[66A]	[66A]	QPSK	10	27710	2310	1/25	10	9820	2355	10	9715	722.5	20	66786	2145	20	67036	2170	23.41	23.44	-0.03
	[66A]	[66A]	29A	30A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	10	9715	722.5	10	5330	763	23.84	23.99	-0.15
46A-46C-[66A]	[66A]	46A	46C	46C	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	46790	5150	20	46988	5169.8	23.88	23.98	-0.1
46D-[66A]	[66A]	46D	46D	46D	QPSK	20	132322	1745	1/49	20	66786	2145	20	48665	5337.5	20	48467	5317.7	20	48863	5357.3	23.88	24.01	-0.13
46C-[48A]-66A	66A	46C	[48A]	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	50467	5517.7	20	55773	3603.3	23.88	23.96	-0.08
46C-48A-[66A]	[66A]	46C	46C	48A	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	50467	5517.7	20	55773	3603.3	23.88	24	-0.12
46C-[48A]-[66A]	[66A]	46C	46C	[48A]	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	50467	5517.7	20	55773	3603.3	23.88	23.94	-0.06
46C-66A-[66A]	66A	[66A]	46C	46C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	50665	5537.5	20	50467	5517.7	23.84	23.87	-0.03
	[66A]	66A	46C	46C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	50665	5537.5	20	50467	5517.7	23.84	23.91	-0.07
46C-[66A]-[66A]	[66A]	[66A]	46C	46C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	50665	5537.5	20	50467	5517.7	23.84	23.85	-0.01
46A-[48C]-66A	66A	46A	[48C]	[48C]	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	55773	3603.3	20	55575	3583.5	23.88	23.91	-0.03
46A-48C-[66A]	[66A]	46A	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	50665	5537.5	20	55773	3603.3	20	55575	3583.5	23.88	23.99	-0.11
[48A]-48D	[48A]	48D	48D	48D	QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	56207	3646.7	20	56009	3626.9	20	56405	3666.5	20.94	21.01	-0.07
	48D	48D	48D	[48A]	QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	55971	3623.1	20	56640	3690	20.94	21	-0.06
[48C]-48C	[48C]	[48C]	48C	48C	QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	56640	3690	20	56552	3670.2	20.94	20.98	-0.04
	48C	48C	[48C]	[48C]	QPSK	20	55773	3603.3	50/50	20	55773	3603.3	20	55575	3583.5	20	56640	3690	20	56552	3670.2	20.94	21.01	-0.07
[48A]-48C-66A	66A	[48A]	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	56640	3690	20	56442	3670.2	23.88	24.03	-0.15
48A-[48C]-66A	66A	48A	[48C]	[48C]	QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	56640	3690	20	56442	3670.2	23.88	23.94	-0.06
48A-48C-[66A]	[66A]	48A	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	56640	3690	20	56442	3670.2	23.88	23.93	-0.05
[48A]-48C-[66A]	[66A]	[48A]	48C	48C	QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	56640	3690	20	56442	3670.2	23.88	23.93	-0.05
[48A]-48A-66A-66A	66A	66A	48A	[48A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	56640	3690	23.84	23.9	-0.06
48A-48A-[66A]-66A	66A	[66A]	48A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	56640	3690	23.84	23.93	-0.09
	[66A]	66A	48A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	56640	3690	23.84	23.89	-0.05
[48A]-[48A]-66A-66A	66A	66A	[48A]	[48A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	56640	3690	23.84	23.88	-0.04

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 (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)			
[48A]-48A-[66A]-66A	66A	[66A]	48A	[48A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	56640	3690	23.84	23.91	-0.07
	[66A]	66A	48A	[48A]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	56640	3690	23.84	23.92	-0.08
48A-48A-[66A]-[66A]	[66A]	[66A]	48A	48A	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	56640	3690	23.84	23.97	-0.13
[48C]-66A-66A	66A	66A	[48C]	[48C]	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	55575	3583.5	23.84	23.86	-0.02
48C-[66A]-66A	66A	[66A]	48C	48C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	55575	3583.5	23.84	23.91	-0.07
	[66A]	66A	48C	48C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	55575	3583.5	23.84	23.92	-0.08
48C-[66A]-[66A]	[66A]	[66A]	48C	48C	QPSK	20	132072	1720	1/99	20	66536	2120	20	67036	2170	20	55773	3603.3	20	55575	3583.5	23.84	23.89	-0.05
48D-[66A]	[66A]	48D	48D	48D	QPSK	20	132322	1745	1/49	20	66786	2145	20	55773	3603.3	20	55575	3583.5	20	55971	3623.1	23.88	24.01	-0.13

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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