

LTE Downlink Carrier Aggregation Inter-band

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	Yes	Yes	
	(1)	Band 2			Yes	Yes			20
		Band 4			Yes	Yes			
(2)	Band 2			Yes	Yes	Yes	Yes	40	
	Band 4			Yes	Yes	Yes	Yes		
2A-5A	(0)	Band 2			Yes	Yes	Yes	Yes	30
	Band 5			Yes	Yes				
(1)	Band 2			Yes	Yes			20	
	Band 5			Yes	Yes				
2A-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				
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	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-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-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-13A	(0)	Band 2	2A-2A BCS 0						50
		Band 13			Yes	Yes			
(1)	Band 2	2A-2A BCS 0						50	
	Band 13			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	
2A-2A-71A	(0)	Band 2	2A-2A BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
2A-4A-4A	(0)	Band 2	4A-4A BCS 0						60
		Band 4			Yes	Yes	Yes	Yes	
2A-4A-5A	(0)	Band 2	4A-4A BCS 0						50
		Band 5			Yes	Yes	Yes	Yes	
2A-4A-12A	(0)	Band 2	4A-4A BCS 0						50
		Band 12			Yes	Yes	Yes	Yes	
2A-4A-13A	(0)	Band 2	4A-4A BCS 0						50
		Band 13			Yes	Yes	Yes	Yes	
2A-4A-71A	(0)	Band 2	4A-4A BCS 0						60
		Band 71			Yes	Yes	Yes	Yes	
2A-5A-30A	(0)	Band 2	4A-4A BCS 0						40
		Band 30			Yes	Yes			
2A-5A-46A	(0)	Band 2	4A-4A BCS 0						50
		Band 46			Yes	Yes	Yes	Yes	
2A-5A-48A	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	Yes	50
		Band 48			Yes	Yes	Yes	Yes	
2A-5A-66A	(0)	Band 2	4A-4A BCS 0						50
		Band 66			Yes	Yes	Yes	Yes	
2A-5B	(0)	Band 2	5B BCS 0						40
		Band 5							
2A-12A-30A	(0)	Band 2	5B BCS 0						40
		Band 12			Yes	Yes	Yes	Yes	
2A-12A-66A	(0)	Band 2	5B BCS 0						40
		Band 66			Yes	Yes	Yes	Yes	
(1)	Band 2	5B BCS 0						40	
	Band 66			Yes	Yes	Yes	Yes		
2A-12B	(0)	Band 2	12B BCS 0						35
		Band 12			Yes	Yes	Yes	Yes	
2A-13A-46A	(0)	Band 2	12B BCS 0						50
		Band 46			Yes	Yes		Yes	
2A-13A-48A	(0)	Band 2	12B BCS 0						50
		Band 48			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-2A-4A-4A	(0)	Band 2	2A-2A BCS 0						80
		Band 4			Yes	Yes	Yes	Yes	
2A-2A-4A-5A	(0)	Band 2	2A-2A BCS 0						70
		Band 5			Yes	Yes	Yes	Yes	
2A-2A-4A-12A	(0)	Band 2	2A-2A BCS 0						70
		Band 12			Yes	Yes	Yes	Yes	
2A-2A-4A-71A	(0)	Band 2	2A-2A BCS 0						80
		Band 71			Yes	Yes	Yes	Yes	
2A-2A-5A-30A	(0)	Band 2	2A-2A BCS 0						60
		Band 30			Yes	Yes			
2A-2A-5A-66A	(0)	Band 2	2A-2A BCS 0						70
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-5B	(0)	Band 2	5B BCS 0						60
		Band 5							
2A-2A-12A-30A	(0)	Band 2	5B BCS 0						60
		Band 12			Yes	Yes			
2A-2A-12A-66A	(0)	Band 2	5B BCS 0						70
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-12B	(0)	Band 2	12B BCS 0						55
		Band 12			Yes	Yes			
2A-2A-13A-66A	(0)	Band 2	12B BCS 0						70
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-14A-30A	(0)	Band 2	12B BCS 0						60
		Band 30			Yes	Yes			
2A-2A-14A-66A	(0)	Band 2	12B BCS 0						70
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-29A-30A	(0)	Band 2	12B BCS 0						60
		Band 30			Yes	Yes			
2A-2A-30A-66A	(0)	Band 2	12B BCS 0						70
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-46C	(0)	Band 2	12B BCS 0						80
		Band 46			Yes	Yes	Yes	Yes	
2A-2A-66A-66A	(0)	Band 2	12B BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
2A-2A-66A-71A	(0)	Band 2	12B BCS 0						80
		Band 71			Yes	Yes	Yes	Yes	
2A-2A-66B	(0)	Band 2	12B BCS 0						60
		Band 66			Yes	Yes			
2A-2A-66C	(0)	Band 2	12B BCS 0						80
		Band 66			Yes	Yes	Yes	Yes	
2A-4A-4A-5A	(0)	Band 2	12B BCS 0						70
		Band 5			Yes	Yes	Yes	Yes	
2A-4A-4A-12A	(0)	Band 2	12B BCS 0						70
		Band 12			Yes	Yes	Yes	Yes	
2A-4A-5B	(0)	Band 2	12B BCS 0						60
		Band 5			Yes	Yes	Yes	Yes	
2A-4A-12B	(0)	Band 2	12B BCS 0						55
		Band 12			Yes	Yes	Yes	Yes	
2A-5A-46C	(0)	Band 2	12B BCS 0						70
		Band 46			Yes	Yes			

LTE Downlink Carrier Aggregation Inter-band (Continued)

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	
5A-48A	(0)	Band 5		Yes	Yes	Yes			30
		Band 48				Yes	Yes	Yes	
5A-66A	(0)	Band 5		Yes	Yes	Yes	Yes		30
		Band 66				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-66A	(0)	Band 12		Yes	Yes	Yes	Yes		20
		Band 66	Yes	Yes	Yes	Yes	Yes		
	(1)	Band 12			Yes	Yes			30
		Band 66	Yes	Yes	Yes	Yes	Yes	Yes	
	(2)	Band 12		Yes	Yes	Yes	Yes		30
Band 66				Yes	Yes	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	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-26A	(0)	Band 25		Yes	Yes	Yes	Yes	Yes	35
		Band 26	Yes	Yes	Yes	Yes	Yes		
	(1)	Band 25		Yes	Yes	Yes			20
		Band 26		Yes	Yes	Yes			
(2)	Band 25			Yes	Yes			20	
	Band 26			Yes	Yes				
25A-41A	(0)	Band 25		Yes	Yes	Yes	Yes		40
		Band 41		Yes	Yes	Yes	Yes		
25A-46A	(0)	Band 25		Yes	Yes	Yes	Yes		40
		Band 46			Yes			Yes	
26A-41A	(0)	Band 26		Yes	Yes	Yes			35
		Band 41		Yes	Yes	Yes	Yes		
30A-29A	(0)	Band 29		Yes	Yes				20
		Band 30		Yes	Yes				
30A-66A	(0)	Band 30		Yes	Yes				30
		Band 66		Yes	Yes	Yes	Yes		
66A-46A	(0)	Band 46						Yes	40
		Band 66		Yes	Yes	Yes	Yes		
66A-48A	(0)	Band 48		Yes	Yes	Yes	Yes		40
		Band 66		Yes	Yes	Yes	Yes		
66A-71A	(0)	Band 66		Yes	Yes	Yes	Yes		40
		Band 71		Yes	Yes	Yes	Yes		
71A-48A	(0)	Band 48		Yes	Yes	Yes	Yes		40
		Band 71		Yes	Yes	Yes	Yes		

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-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				
		Band 2			Yes	Yes	Yes	Yes	
2A-46A-48A	(0)	Band 46			Yes	Yes	Yes	Yes	60
		Band 48			Yes	Yes	Yes	Yes	
		Band 2			Yes	Yes	Yes	Yes	
2A-46A-66A	(0)	Band 46			Yes	Yes	Yes	Yes	60
		Band 66			Yes	Yes	Yes	Yes	
		Band 2			Yes	Yes	Yes	Yes	
2A-46C	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 46			46C BCS 0				
		Band 2			Yes	Yes	Yes	Yes	
2A-48A-48A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 48			48A-48A BCS 0				
		Band 2			Yes	Yes	Yes	Yes	
2A-48A-66A	(0)	Band 48			Yes	Yes	Yes	Yes	60
		Band 66			Yes	Yes	Yes	Yes	
		Band 2			Yes	Yes	Yes	Yes	
2A-48C	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 48			48C BCS 0				
		Band 2			Yes	Yes	Yes	Yes	
2A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 66			66A-66A BCS 0				
		Band 2			Yes	Yes	Yes	Yes	
2A-66A-71A	(0)	Band 66			Yes	Yes	Yes	Yes	60
		Band 71			Yes	Yes	Yes	Yes	
		Band 2			Yes	Yes	Yes	Yes	
2A-66B	(0)	Band 2			Yes	Yes	Yes	Yes	40
		Band 66			66B BCS 0				
		Band 2			Yes	Yes	Yes	Yes	
2A-66C	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 66			66C BCS 0				
		Band 2			Yes	Yes	Yes	Yes	
2C-66A	(0)	Band 2			Yes	Yes	Yes	Yes	60
		Band 66			2C BCS 0				
		Band 2			Yes	Yes	Yes	Yes	
4A-4A-5A	(0)	Band 4			Yes	Yes			50
		Band 5			Yes	Yes			
		Band 4			4A-4A BCS 0				
4A-4A-12A	(0)	Band 4			Yes	Yes			50
		Band 12			Yes	Yes			
		Band 4			4A-4A BCS 0				
4A-4A-13A	(0)	Band 4			Yes	Yes			50
		Band 13			Yes	Yes			
		Band 4			4A-4A BCS 0				
4A-4A-71A	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 71			Yes	Yes	Yes	Yes	
		Band 4			Yes	Yes	Yes	Yes	
4A-5B	(0)	Band 4			Yes	Yes	Yes	Yes	40
		Band 5			5B BCS 0				
		Band 4			Yes	Yes	Yes	Yes	
4A-12B	(0)	Band 4			Yes	Yes	Yes	Yes	35
		Band 12			12B BCS 0				
		Band 4			Yes	Yes	Yes	Yes	
4A-46A-46A	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 46			46A-46A BCS 0				
		Band 4			Yes	Yes	Yes	Yes	
4A-46C	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 46			46C BCS 0				
		Band 4			Yes	Yes	Yes	Yes	
4A-48C	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 48			48C BCS 0				
		Band 4			Yes	Yes	Yes	Yes	
5A-5A-66A	(0)	Band 5			Yes	Yes	Yes	Yes	40
		Band 66			5A-5A BCS 0				
		Band 5			Yes	Yes	Yes	Yes	
5A-30A-66A	(0)	Band 30			Yes	Yes			40
		Band 66			Yes	Yes	Yes	Yes	
		Band 30			Yes	Yes	Yes	Yes	

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregated BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
2A-5A-48C	(0)	Band 2		Yes	Yes	Yes	Yes	Yes	70
		Band 5			Yes	Yes	Yes	Yes	
		Band 48			48C BCS 0				
2A-5A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 5			Yes	Yes			
		Band 66			66A-66A BCS 0				
2A-5A-66B	(0)	Band 2			Yes	Yes	Yes	Yes	50
		Band 5			Yes	Yes			
		Band 66			66B BCS 0				
2A-5A-66C	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 5			Yes	Yes			
		Band 66			66C BCS 0				
2A-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-12A-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	70
		Band 12			Yes	Yes	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-12B-66A	(0)	Band 2							

LTE Downlink Carrier Aggregation Inter-band (Continued)

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-66A	(0)	Band 5			Yes	Yes			50
		Band 46						Yes	
5A-46C	(0)	Band 5			Yes	Yes			50
		Band 46			46C BCS 0				
	(1)	Band 5			Yes	Yes			50
5A-48A-48A	-	Band 5			Yes	Yes			50
		Band 48			48A-48A BCS 0				
5A-48A-66A	(0)	Band 5			Yes	Yes			50
		Band 48			Yes	Yes	Yes	Yes	
		Band 66			Yes	Yes	Yes	Yes	
5A-48C	(0)	Band 5			Yes	Yes		50	
		Band 48			48C BCS 0				
5A-66A-66A	(0)	Band 5			Yes	Yes		50	
		Band 66			66A-66A BCS 0				
5A-66B	(0)	Band 5			Yes	Yes		30	
		Band 66			66B BCS 0				
5A-66C	(0)	Band 5			Yes	Yes		50	
		Band 66			66C BCS 0				
5B-30A	(0)	Band 5			Yes	Yes		30	
		Band 30			5B BCS 0				
5B-46A	(0)	Band 5			Yes	Yes		40	
		Band 46			5B BCS 0				
5B-66A	(0)	Band 5			Yes	Yes	Yes	40	
		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-46C	(0)	Band 12			Yes	Yes		50	
		Band 46			46C 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				
12B-66A	(0)	Band 12			Yes	Yes	Yes	35	
		Band 66			Yes	Yes	Yes		Yes
13A-46A-66A	(0)	Band 13			Yes	Yes		50	
		Band 46			46A-46A BCS 0				
13A-46C	(0)	Band 13			Yes	Yes		50	
		Band 46			46C BCS 0				
13A-48A-48A	(0)	Band 13			Yes	Yes		50	
		Band 48			48A-48A BCS 0				
13A-48A-66A	(0)	Band 13			Yes	Yes		50	
		Band 48			Yes	Yes	Yes		Yes
		Band 66			Yes	Yes	Yes		Yes
13A-48C	(0)	Band 13			Yes	Yes		50	
		Band 48			48C BCS 0				
13A-66A-66A	(0)	Band 13			Yes	Yes		50	
		Band 66			66A-66A BCS 0				
13A-66B	(0)	Band 13			Yes	Yes		30	
		Band 66			66B BCS 0				
13A-66C	(0)	Band 13			Yes	Yes		50	
		Band 66			66C BCS 0				
14A-30A-66A	(0)	Band 14			Yes	Yes		40	
		Band 30			Yes	Yes	Yes		Yes
14A-66A-66A	(0)	Band 14			Yes	Yes		50	
		Band 66			66A-66A BCS 0				
25A-25A-26A	(0)	Band 25			Yes	Yes		45	
		Band 26			Yes	Yes			
25A-25A-41A	(0)	Band 25			Yes	Yes	Yes	60	
		Band 41			Yes	Yes	Yes		Yes
25A-26A-41A	(0)	Band 25	Yes	Yes	Yes	Yes	Yes	55	
		Band 41	Yes	Yes	Yes	Yes	Yes		

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-66A-66A-71A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 66			66A-66A BCS 0				
2A-66A-66B	(0)	Band 71			Yes	Yes	Yes	Yes	60
		Band 66			66A-66B BCS 0				
2A-66C-71A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 66			66C BCS 0				
2C-66A-66A	(0)	Band 2			Yes	Yes	Yes	Yes	80
		Band 66			66A-66A BCS 0				
4A-4A-5B	(0)	Band 4			Yes	Yes	Yes	Yes	60
		Band 5			5B BCS 0				
4A-4A-12B	(0)	Band 4			Yes	Yes	Yes	Yes	55
		Band 12			4A-4A 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				
4A-48D	(0)	Band 4			Yes	Yes	Yes	Yes	80
		Band 48			48D BCS 0				
5A-5A-66A-66A	(0)	Band 5			Yes	Yes	Yes	Yes	60
		Band 66			66A-66A BCS 0				
5A-5A-66B	(0)	Band 5			Yes	Yes	Yes	Yes	40
		Band 66			66B BCS 0				
5A-5A-66C	(0)	Band 5			Yes	Yes	Yes	Yes	60
		Band 66			66C BCS 0				
5A-30A-66A-66A	(0)	Band 5			Yes	Yes		60	
		Band 30			Yes	Yes			
		Band 66			66A-66A BCS 0				
5A-46C-66A	(0)	Band 5			Yes	Yes		70	
		Band 46			46C BCS 0				
5A-46D	(0)	Band 5			Yes	Yes	Yes	70	
		Band 46			46D BCS 0				
	(1)	Band 5			Yes	Yes		70	
5A-48A-48C	-	Band 5			Yes	Yes		70	
		Band 48			48C BCS 0				
5A-48C-66A	(0)	Band 5			Yes	Yes		70	
		Band 48			48C BCS 0				
5A-48D	(0)	Band 5	Yes	Yes	Yes	Yes	Yes	70	
		Band 48			48D BCS 0				
5A-66A-66B	(0)	Band 5			Yes	Yes		50	
		Band 66			66A66B BCS 0				
5B-30A-66A	(0)	Band 5			Yes	Yes		50	
		Band 30			Yes	Yes			
		Band 66			Yes	Yes	Yes		Yes
5B-46C	(0)	Band 5			Yes	Yes		60	
		Band 46			46C BCS 0				
5B-66A-66A	(0)	Band 5			Yes	Yes		60	
		Band 66			66A-66A BCS 0				
5B-66B	(0)	Band 5			Yes	Yes		40	
		Band 66			66B BCS 0				
5B-66C	(0)	Band 5			Yes	Yes		60	
		Band 66			66C BCS 0				
12A-30A-66A-66A	(0)	Band 12			Yes	Yes		60	
		Band 30			Yes	Yes			
		Band 66			66A-66A BCS 0				
12A-46D	(0)	Band 12			Yes	Yes		70	
		Band 46			46D BCS 0				
13A-46C-66A	(0)	Band 13			Yes	Yes		70	
		Band 46			46C BCS 0				
		Band 66			Yes	Yes	Yes		Yes
13A-46D	(0)	Band 13			Yes	Yes		70	
		Band 46			46D BCS 0				

LTE Downlink Carrier Aggregation Inter-band (Continued)

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	
25A-41C	(0)	Band 25 Band 41			Yes	Yes	Yes	Yes	60
			41C BCS 1						
25A-46C	(0)	Band 25 Band 46			Yes	Yes	Yes	Yes	60
			46C BCS 1						
26A-41C	(0)	Band 26 Band 41			Yes	Yes	Yes	Yes	55
			41C BCS 1						
30A-29A-66A	(0)	Band 29 Band 30 Band 66			Yes	Yes			40
			66A-66A BCS 0						
30A-66A-66A	(0)	Band 30 Band 66			Yes	Yes	Yes	Yes	50
			66A-66A BCS 0						
66A-46A-46A	(0)	Band 46 Band 66			Yes	Yes	Yes	Yes	60
			46A-46A BCS 0						
66A-46A-48A	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	60
			46C BCS 0						
66A-46C	(0)	Band 46 Band 66			Yes	Yes	Yes	Yes	60
			48A-48A BCS 0						
66A-48A-48A	(0)	Band 66 Band 48			Yes	Yes	Yes	Yes	60
			48C BCS 0						
66A-48C	(0)	Band 66 Band 48			Yes	Yes	Yes	Yes	60
			66A-66A BCS 0						
66A-66A-46A	(0)	Band 46 Band 66			Yes	Yes	Yes	Yes	60
			66A-66A BCS 0						
66A-66A-48A	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	60
			66A-66A BCS 0						
66A-66A-71A	(0)	Band 66 Band 71			Yes	Yes	Yes	Yes	60
			66B BCS 0						
66B-48A	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	40
			66C BCS 0						
66C-48A	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	60
			66C BCS 0						
66C-71A	(0)	Band 66 Band 71			Yes	Yes	Yes	Yes	60
			66C BCS 0						
71A-48A-48A	(0)	Band 48 Band 71			Yes	Yes	Yes	Yes	60
			48C BCS 0						
71A-48C	(0)	Band 48 Band 71			Yes	Yes	Yes	Yes	60
			48C BCS 0						

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth						Max Aggregated BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
13A-48A-48C	(0)	Band 13 Band 48			Yes	Yes	Yes	Yes	70
			48A-48C BCS 0						
13A-48A-66B	(0)	Band 13 Band 48 Band 66			Yes	Yes	Yes	Yes	50
			66B BCS 0						
13A-48A-66C	(0)	Band 13 Band 48 Band 66			Yes	Yes	Yes	Yes	70
			66C BCS 0						
13A-48C-66A	(0)	Band 13 Band 48 Band 66			Yes	Yes			70
			48C BCS 0						
13A-48D	(0)	Band 13 Band 48			Yes	Yes	Yes	Yes	70
			48D BCS 0						
14A-30A-66A-66A	(0)	Band 14 Band 30 Band 66			Yes	Yes			60
			66A-66A BCS 0						
25A-25A-41C	(0)	Band 25 Band 41			Yes	Yes	Yes	Yes	80
			41C BCS 0						
25A-26A-41C	(0)	Band 25 Band 26 Band 41	Yes	Yes	Yes	Yes	Yes	Yes	75
			41C BCS 0						
25A-41D	(0)	Band 25 Band 41			Yes	Yes	Yes	Yes	80
			41D BCS 0						
25A-46D	(0)	Band 25 Band 46			Yes	Yes	Yes	Yes	80
			46D BCS 1						
30A-29A-66A-66A	(0)	Band 29 Band 30 Band 66			Yes	Yes			60
			66A-66A BCS 0						
66A-46A-46C	(0)	Band 46 Band 66			Yes	Yes	Yes	Yes	80
			46A-46C BCS 0						
66A-46A-48C	(0)	Band 46 Band 66			Yes	Yes	Yes	Yes	80
			48C BCS 0						
66A-46C-48A	(0)	Band 46 Band 48 Band 66			Yes	Yes	Yes	Yes	80
			46C BCS 0						
66A-46D	(0)	Band 46 Band 66			Yes	Yes	Yes	Yes	80
			46D BCS 0						
66A-48A-48C	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	80
			48A-48C BCS 0						
66A-48D	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	80
			48D BCS 0						
66A-66A-46C	(0)	Band 46 Band 66			Yes	Yes	Yes	Yes	80
			46C BCS 0						
66A-66A-48A-48A	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	80
			48A-48A BCS 0						
66A-66A-48C	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	80
			66A-66A BCS 0						
66B-48A-48A	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	60
			48C BCS 0						
66B-48C	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	60
			66B BCS 0						
66C-48A-48A	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	80
			48A-48A BCS 0						
66C-48C	(0)	Band 48 Band 66			Yes	Yes	Yes	Yes	80
			66C BCS 0						

**LTE Downlink Carrier Aggregation 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
25A-25A	(0)	Band 25	5, 10	5, 10			20
	(1)	Band 25	5, 10, 15, 20	5, 10, 15, 20			40
41A-41A	(0)	Band 41	10, 15, 20	10, 15, 20			40
	(1)	Band 41	5, 10, 15, 20	5, 10, 15, 20			40
48A-48A	(0)	Band 48	5, 10, 15, 20	5, 10, 15, 20			40
66A-66A	(0)	Band 66	5, 10, 15, 20	5, 10, 15, 20			40
41A-41C	(0)	Band 41	5, 10, 15, 20	41C BCS 1			60
			41C BCS 1		5, 10, 15, 20		
48A-48C	(0)	Band 48	5, 10, 15, 20	48C BCS 0			60
			48C BCS 0		5, 10, 15, 20		
66A-66B	(0)	Band 66	5, 10, 15, 20	66B BCS 0			40
			66B BCS 0		5, 10, 15, 20		
66A-66C	(0)	Band 66	5, 10, 15, 20	66C BCS 0			60
			66C BCS 0		5, 10, 15, 20		
41A-41D	(0)	Band 41	5, 10, 15, 20	41D BCS 0			80
			41D BCS 0			5, 10, 15, 20	
41C-41C	(0)	Band 41	41C BCS 0		41C BCS 0		80
48A-48D	(0)	Band 48	5, 10, 15, 20	48D BCS 0			80
			48D BCS 0			5, 10, 15, 20	
48C-48C	(0)	Band 48	48C BCS 0		48C BCS 0		80

**LTE Uplink / Downlink Carrier Aggregation Intra-band contiguous**

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Allowed Channel BW Per Carrier (MHz)				Max Aggregated BW
			1st Carrier	2nd Carrier	3rd Carrier	4th Carrier	
2C	(0)	Band 2	5	20			40
			10	15, 20			
			15	10, 15, 20			
			20	5, 10, 15, 20			
5B	(0)	Band 5	5, 10	10			20
			10	5			
	(1)	Band 5	3	5			8
			5	3			
12B	(0)	Band 12	5	5, 10			15
41C	(0)	Band 41	10	20			40
			15	15, 20			
			20	10, 15, 20			
	(1)	Band 41	5, 10	20			40
			15	15, 20			
			20	5, 10, 15, 20			
	(2)	Band 41	10	15, 20			40
			15	10, 15, 20			
			20	10, 15, 20			
	(3)	Band 41	10	20			40
			20	20			
	48C	(0)	Band 48	5, 10, 15, 20	20		
20				5, 10, 15			
66B	(0)	Band 66	5	5, 10, 15			20
			10	5, 10			
			15	5			
66C	(0)	Band 66	5	20			40
			10	15, 20			
			15	10, 15, 20			
			20	5, 10, 15, 20			
41D	(0)	Band 41	10	20	15		60
			10	15, 20	20		
			15	20	10, 15		
			15	10, 15, 20	20		
			20	15, 20	10		
			20	10, 15, 20	15, 20		
48D	(0)	Band 48	5, 10, 15, 20	20	20		60
			20	20	5, 10, 15		
41E	(0)	Band 41	15, 20	15, 20	15, 20	20	80
48E	(0)	Band 48	5, 10, 15, 20	20	20	20	80
			20	20	20	5, 10, 15	

**Note(s):**

LTE CA\_5B, CA\_66B, CA\_66C and CA\_41C are 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.

**LTE Uplink 2CA Band 41 for SAR testing**

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_5B (0)(1)	Standalone	5B	5B	QPSK	1	49	10	836.5	20525	QPSK	1	0	10	843.7	20597	0	20	16.0	15.0	15	16.0
CA_41C (0)(1)(2)(3)	Standalone	41C	41C	QPSK	1	99	20	2506	39750	QPSK	1	0	20	2525.8	39948	0	40	14.0	12.9	15	14.0
CA_66B (0)	Standalone	66B	66B	QPSK	1	0	10	1775	132622	QPSK	1	49	10	1765.1	132523	0	20	14.0	13.4	15	14.0
CA_66C (0)	Standalone	66C	66C	QPSK	1	0	20	1770	132572	QPSK	1	99	20	1750.2	132374	0	40	14.0	13.3	15	14.0

**Note:** Standalone output power values are referenced from Sec.9.2 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	Reverse
2CC#1	2A-4A		4CC#1	O
2CC#2	2A-5A		4CC#2	O
2CC#3	2A-12A		4CC#3	O
2CC#4	2A-13A		4CC#11	O
2CC#5	2A-14A		4CC#12	O
2CC#6	2A-29A	B29 SCC only	4CC#14	X
2CC#7	2A-30A		4CC#5	O
2CC#8	2A-48A	B48 SCC only	4CC#44	X
2CC#9	2A-46A	B46 SCC only	4CC#42	X
2CC#10	2A-66A		4CC#6	O
2CC#11	2A-71A		4CC#4	O
2CC#12	4A-5A		4CC#2	O
2CC#13	4A-12A		4CC#3	O
2CC#14	4A-46A	B46 SCC only	4CC#56	X
2CC#15	4A-48A	B48 SCC only		X
2CC#16	4A-71A		4CC#4	O
2CC#17	5A-30A		4CC#5	O
2CC#18	5A-46A	B46 SCC only	3CC#55	X
2CC#19	5A-48A	B48 SCC only	4CC#65	X
2CC#20	5A-66A		4CC#6	O
2CC#21	12A-30A		4CC#8	O
2CC#22	12A-46A	B46 SCC only		X
2CC#23	12A-66A		4CC#9	O
2CC#24	13A-46A	B46 SCC only	3CC#24	X
2CC#25	13A-48A	B48 SCC only	3CC#25	X
2CC#26	13A-66A		4CC#11	O
2CC#27	14A-30A		4CC#12	O
2CC#28	14A-66A		4CC#13	O
2CC#29	25A-26A		4CC#85	O
2CC#30	25A-41A	B41 SCC only	3CC#82	X
2CC#31	25A-46A	B46 SCC only		X
2CC#32	26A-41A	B41 SCC only	3CC#83	X
2CC#33	30A-29A	B29 SCC only	4CC#14	X
2CC#34	30A-66A		4CC#15	O
2CC#35	66A-46A	B46 SCC only	4CC#93	X
2CC#36	66A-48A	B48 SCC only	4CC#95	X
2CC#37	66A-71A		4CC#18	O
2CC#38	71A-48A	B48 SCC only	3CC#104	X
2CC#39	2A-2A		4CC#1	N/A
2CC#40	4A-4A		4CC#1	N/A
2CC#41	5A-5A		4CC#59	N/A
2CC#42	25A-25A		4CC#84	N/A
2CC#43	41A-41A			N/A
2CC#44	48A-48A			N/A
2CC#45	66A-66A		4CC#17	N/A
2CC#46	2C		4CC#53	N/A
2CC#47	5B		4CC#7	N/A
2CC#48	12B		4CC#10	N/A
2CC#49	41C		4CC#90	N/A
2CC#50	48C		4CC#92	N/A
2CC#51	66B		4CC#19	N/A
2CC#52	66C		4CC#20	N/A

Index	3CC	Restriction	Completely Covered by Measurement Superset	Reverse
3CC#1	2A-2A-4A		4CC#1	O
3CC#2	2A-2A-5A		4CC#2	O
3CC#3	2A-2A-12A		4CC#3	O
3CC#4	2A-2A-13A		4CC#11	O
3CC#5	2A-2A-14A		4CC#12	O
3CC#6	2A-2A-29A	B29 SCC only	4CC#14	X
3CC#7	2A-2A-30A		4CC#5	O
3CC#8	2A-2A-46A	B46 SCC only		X
3CC#9	2A-2A-66A		4CC#6	O
3CC#10	2A-2A-71A		4CC#4	O
3CC#11	2A-4A-4A		4CC#1	O
3CC#12	2A-4A-5A		4CC#2	O
3CC#13	2A-4A-12A		4CC#3	O
3CC#14	2A-4A-13A			O
3CC#15	2A-4A-71A		4CC#4	O
3CC#16	2A-5A-30A		4CC#5	O
3CC#17	2A-5A-46A	B46 SCC only		O
3CC#18	2A-5A-48A	B48 SCC only		O
3CC#19	2A-5A-66A		4CC#6	O
3CC#20	2A-5B		4CC#7	O
3CC#21	2A-12A-30A		4CC#8	O
3CC#22	2A-12A-66A		4CC#9	O
3CC#23	2A-12B		4CC#10	O
3CC#24	2A-13A-46A	B46 SCC only		O
3CC#25	2A-13A-48A	B48 SCC only		O
3CC#26	2A-13A-66A		4CC#11	O
3CC#27	2A-14A-30A		4CC#12	O
3CC#28	2A-14A-66A		4CC#13	O
3CC#29	2A-29A-30A	B29 SCC only	4CC#14	O
3CC#30	2A-29A-66A	B29 SCC only		O
3CC#31	2A-30A-66A		4CC#15	O
3CC#32	2A-46A-46A	B46 SCC only		X
3CC#33	2A-46A-48A	B46,B48 SCC only		X
3CC#34	2A-46A-66A	B46 SCC only		O
3CC#35	2A-46C	B46 SCC only	4CC#16	X
3CC#36	2A-48A-48A	B48 SCC only		X
3CC#37	2A-48A-66A	B48 SCC only		O
3CC#38	2A-48C	B48 SCC only	4CC#26	X
3CC#39	2A-66A-66A		4CC#17	O
3CC#40	2A-66A-71A		4CC#18	O
3CC#41	2A-66B		4CC#19	O
3CC#42	2A-66C		4CC#20	O
3CC#43	2C-66A		4CC#53	O
3CC#44	4A-4A-5A		4CC#21	O
3CC#45	4A-4A-12A		4CC#22	O
3CC#46	4A-4A-13A			O
3CC#47	4A-4A-71A			O
3CC#48	4A-5B		4CC#23	O
3CC#49	4A-12B		4CC#24	O
3CC#50	4A-46A-46A	B46 SCC only		X
3CC#51	4A-46C	B46 SCC only	4CC#56	X
3CC#52	4A-48C	B48 SCC only		X

Index	3CC	Restriction	Completely Covered by Measurement Superset	Reverse
3CC#53	5A-5A-66A		4CC#59	O
3CC#54	5A-30A-66A		4CC#62	O
3CC#55	5A-46A-66A	B46 SCC only		O
3CC#56	5A-46C	B46 SCC only	4CC#25	X
3CC#57	5A-48A-48A	B48 SCC only		X
3CC#58	5A-48A-66A	B48 SCC only		O
3CC#59	5A-48C	B48 SCC only	4CC#26	X
3CC#60	5A-66A-66A		4CC#27	O
3CC#61	5A-66B		4CC#28	O
3CC#62	5A-66C		4CC#29	O
3CC#63	5B-30A		4CC#30	O
3CC#64	5B-46A	B46 SCC only		X
3CC#65	5B-66A		4CC#31	O
3CC#66	12A-30A-66A		4CC#74	O
3CC#67	12A-46C	B46 SCC only		X
3CC#68	12A-66A-66A		4CC#32	O
3CC#69	12A-66C		4CC#33	O
3CC#70	12B-66A		4CC#34	O
3CC#71	13A-46A-66A	B46 SCC only		O
3CC#72	13A-46C	B46 SCC only	4CC#76	X
3CC#73	13A-48A-48A	B48 SCC only		X
3CC#74	13A-48A-66A	B48 SCC only		O
3CC#75	13A-48C	B48 SCC only	4CC#36	X
3CC#76	13A-66A-66A		4CC#37	O
3CC#77	13A-66B		4CC#38	O
3CC#78	13A-66C		4CC#39	O
3CC#79	14A-30A-66A		4CC#83	O
3CC#80	14A-66A-66A		4CC#40	O
3CC#81	25A-25A-26A			O
3CC#82	25A-25A-41A	B41 SCC only		X
3CC#83	25A-26A-41A	B41 SCC only		O
3CC#84	25A-41C	B41 SCC only	4CC#84	X
3CC#85	25A-46C	B46 SCC only		X
3CC#86	26A-41C	B41 SCC only	4CC#85	X
3CC#87	30A-29A-66A	B29 SCC only	4CC#88	O
3CC#88	30A-66A-66A		4CC#41	O
3CC#89	41A-41C			O
3CC#90	48A-48C			O
3CC#91	66A-46A-46A	B46 SCC only		X
3CC#92	66A-46A-48A	B46,B48 SCC only		X
3CC#93	66A-46C	B46 SCC only	4CC#63	X
3CC#94	66A-48A-48A	B48 SCC only	4CC#100	X
3CC#95	66A-48C	B48 SCC only	4CC#48	X
3CC#96	66A-66A-46A	B46 SCC only		X
3CC#97	66A-66A-48A	B48 SCC only	4CC#100	X
3CC#98	66A-66A-71A		4CC#50	O
3CC#99	66A-66B		4CC#51	O
3CC#100	66A-66C			O
3CC#101	66B-48A	B48 SCC only	4CC#79	X
3CC#102	66C-48A	B48 SCC only	4CC#80	X
3CC#103	66C-71A		4CC#52	O
3CC#104	71A-48A-48A	B48 SCC only		X
3CC#105	71A-48C	B48 SCC only		X
3CC#106	41D		4CC#89	N/A
3CC#107	48D			N/A



LTE Release 10 Carrier Aggregation (continued)

Index	4CC	Restriction	Completely Covered by Measurement Superset	Reverse
4CC#1	2A-2A-4A-4A			O
4CC#2	2A-2A-4A-5A			O
4CC#3	2A-2A-4A-12A			O
4CC#4	2A-2A-4A-71A			O
4CC#5	2A-2A-5A-30A			O
4CC#6	2A-2A-5A-66A			O
4CC#7	2A-2A-5B			O
4CC#8	2A-2A-12A-30A			O
4CC#9	2A-2A-12A-66A			O
4CC#10	2A-2A-12B			O
4CC#11	2A-2A-13A-66A			O
4CC#12	2A-2A-14A-30A			O
4CC#13	2A-2A-14A-66A			O
4CC#14	2A-2A-29A-30A	B29 SCC only		O
4CC#15	2A-2A-30A-66A			O
4CC#16	2A-2A-46C	B46 SCC only		X
4CC#17	2A-2A-66A-66A			O
4CC#18	2A-2A-66A-71A			O
4CC#19	2A-2A-66B			O
4CC#20	2A-2A-66C			O
4CC#21	2A-4A-4A-5A			O
4CC#22	2A-4A-4A-12A			O
4CC#23	2A-4A-5B			O
4CC#24	2A-4A-12B			O
4CC#25	2A-5A-46C	B46 SCC only		O
4CC#26	2A-5A-48C	B48 SCC only		O
4CC#27	2A-5A-66A-66A			O
4CC#28	2A-5A-66B			O
4CC#29	2A-5A-66C			O
4CC#30	2A-5B-30A			O
4CC#31	2A-5B-66A			O
4CC#32	2A-12A-66A-66A			O
4CC#33	2A-12A-66C			O
4CC#34	2A-12B-66A			O
4CC#35	2A-13A-46C	B46 SCC only		O
4CC#36	2A-13A-48C	B48 SCC only		O
4CC#37	2A-13A-66A-66A			O
4CC#38	2A-13A-66B			O
4CC#39	2A-13A-66C			O
4CC#40	2A-14A-66A-66A			O
4CC#41	2A-30A-66A-66A			O
4CC#42	2A-46A-46C	B46 SCC only		X
4CC#43	2A-46A-48C	B46,B48 SCC only		X
4CC#44	2A-46C-48A	B46,B48 SCC only		X
4CC#45	2A-46C-66A	B46 SCC only		O
4CC#46	2A-46D	B46 SCC only		X
4CC#47	2A-48A-48C	B48 SCC only		X
4CC#48	2A-48C-66A	B48 SCC only		O
4CC#49	2A-48D	B48 SCC only		X
4CC#50	2A-66A-66A-71A			O
4CC#51	2A-66A-66B			O
4CC#52	2A-66C-71A			O
4CC#53	2C-66A-66A			O
4CC#54	4A-4A-5B			O
4CC#55	4A-4A-12B			O

Index	4CC	Restriction	Completely Covered by Measurement Superset	Reverse
4CC#56	4A-46A-46C	B46 SCC only		X
4CC#57	4A-46D	B46 SCC only		X
4CC#58	4A-48D	B48 SCC only		X
4CC#59	5A-5A-66A-66A			O
4CC#60	5A-5A-66B			O
4CC#61	5A-5A-66C			O
4CC#62	5A-30A-66A-66A			O
4CC#63	5A-46C-66A	B46 SCC only		O
4CC#64	5A-46D	B46 SCC only		X
4CC#65	5A-48A-48C	B48 SCC only		X
4CC#66	5A-48C-66A	B48 SCC only		O
4CC#67	5A-48D	B48 SCC only		X
4CC#68	5A-66A-66B			O
4CC#69	5B-30A-66A			O
4CC#70	5B-46C	B46 SCC only		X
4CC#71	5B-66A-66A			O
4CC#72	5B-66B			O
4CC#73	5B-66C			O
4CC#74	12A-30A-66A-66A			O
4CC#75	12A-46D	B46 SCC only		X
4CC#76	13A-46C-66A	B46 SCC only		O
4CC#77	13A-46D	B46 SCC only		X
4CC#78	13A-48A-48C	B48 SCC only		X
4CC#79	13A-48A-66B	B48 SCC only		O
4CC#80	13A-48A-66C	B48 SCC only		O
4CC#81	13A-48C-66A	B48 SCC only		O
4CC#82	13A-48D	B48 SCC only		X
4CC#83	14A-30A-66A-66A			O
4CC#84	25A-25A-41C	B41 SCC only		X
4CC#85	25A-26A-41C	B41 SCC only		O
4CC#86	25A-41D	B41 SCC only		X
4CC#87	25A-46D	B46 SCC only		X
4CC#88	30A-29A-66A-66A	B29 SCC only		O
4CC#89	41A-41D			O
4CC#90	41C-41C			N/A
4CC#91	48A-48D			X
4CC#92	48C-48C			N/A
4CC#93	66A-46A-46C	B46 SCC only		X
4CC#94	66A-46A-48C	B46,B48 SCC only		X
4CC#95	66A-46C-48A	B46,B48 SCC only		X
4CC#96	66A-46D	B46 SCC only		X
4CC#97	66A-48A-48C	B48 SCC only		X
4CC#98	66A-48D	B48 SCC only		X
4CC#99	66A-66A-46C	B46 SCC only		X
4CC#100	66A-66A-48A-48A	B48 SCC only		X
4CC#101	66A-66A-48C	B48 SCC only		X
4CC#102	66B-48A-48A	B48 SCC only		X
4CC#103	66B-48C	B48 SCC only		X
4CC#104	66C-48A-48A	B48 SCC only		X
4CC#105	66C-48C	B48 SCC only		X
4CC#106	41E			N/A
4CC#107	48E			N/A

**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	Reverse
2CC#1	2A-[4A]		4CC#49	O
2CC#2	[2A]-4A		4CC#1	O
2CC#3	[2A]-[4A]		4CC#58	O
2CC#4	[2A]-5A		4CC#4	O
2CC#5	[2A]-12A		4CC#6	O
2CC#6	[2A]-13A		4CC#21	O
2CC#7	[2A]-14A		4CC#23	O
2CC#8	[2A]-29A	B29 SCC only	4CC#27	X
2CC#9	[2A]-30A		4CC#27	O
2CC#10	[2A]-46A	B46 SCC only	4CC#92	X
2CC#11	2A-[48A]	B48 SCC only	4CC#94	X
2CC#12	[2A]-48A	B48 SCC only	4CC#95	X
2CC#13	[2A]-[48A]	B48 SCC only	4CC#96	X
2CC#14	2A-[66A]		4CC#33	O
2CC#15	[2A]-66A		4CC#34	O
2CC#16	[2A]-[66A]		4CC#36	O
2CC#17	[2A]-71A		4CC#7	O
2CC#18	[4A]-5A		4CC#49	O
2CC#19	[4A]-12A		4CC#51	O
2CC#20	[4A]-46A	B46 SCC only	4CC#119	X
2CC#21	4A-[48A]	B48 SCC only		X
2CC#22	[4A]-48A	B48 SCC only		X
2CC#23	[4A]-[48A]	B48 SCC only		X
2CC#24	[4A]-71A		3CC#38	O
2CC#25	5A-[48A]	B48 SCC only	4CC#130	X
2CC#26	5A-[66A]		4CC#62	O
2CC#27	12A-[66A]		4CC#72	O
2CC#28	13A-[48A]	B48 SCC only	4CC#142	X
2CC#29	13A-[66A]		4CC#82	O
2CC#30	14A-[66A]		4CC#88	O
2CC#31	[25A]-26A		4CC#155	O
2CC#32	25A-[41A]	B41 SCC only	3CC#152	X
2CC#33	[25A]-41A	B41 SCC only	3CC#153	X
2CC#34	[25A]-[41A]	B41 SCC only	3CC#158	X
2CC#35	[25A]-46A	B46 SCC only		X
2CC#36	26A-[41A]	B41 SCC only	3CC#156	X
2CC#37	30A-[66A]		4CC#90	O
2CC#38	[66A]-29A	B29 SCC only	4CC#170	X
2CC#39	[66A]-46A	B46 SCC only	4CC#158	X
2CC#40	66A-[48A]	B48 SCC only	4CC#160	X
2CC#41	[66A]-48A	B48 SCC only	4CC#161	X
2CC#42	[66A]-[48A]	B48 SCC only	4CC#168	X
2CC#43	[66A]-71A		4CC#111	O
2CC#44	71A-[48A]	B48 SCC only	3CC#189	X
2CC#45	2A-[2A]		4CC#1	O
2CC#46	[2A]-[2A]		4CC#2	N/A
2CC#47	4A-[4A]		4CC#49	O
2CC#48	[4A]-[4A]		4CC#50	N/A
2CC#49	25A-[25A]		4CC#152	O
2CC#50	[25A]-[25A]		4CC#153	N/A
2CC#51	41A-[41A]			O
2CC#52	[41A]-[41A]			N/A
2CC#53	[48A]-[48A]			N/A
2CC#54	66A-[66A]		4CC#33	O
2CC#55	[66A]-[66A]		4CC#35	N/A
2CC#56	[2C]		4CC#47	N/A
2CC#57	[41C]		4CC#188	N/A
2CC#58	[48C]		3CC#193	N/A
2CC#59	[66B]		4CC#64	N/A
2CC#60	[66C]		4CC#66	N/A

Index	3CC	Restriction	Completely Covered by Measurement Superset	Reverse
3CC#1	2A-2A-[4A]			O
3CC#2	[2A]-2A-4A		4CC#1	O
3CC#3	[2A]-2A-[4A]			O
3CC#4	2A-[2A]-4A		4CC#2	O
3CC#5	2A-[2A]-5A		4CC#3	O
3CC#6	[2A]-[2A]-5A		4CC#4	O
3CC#7	2A-[2A]-12A		4CC#5	O
3CC#8	[2A]-[2A]-12A		4CC#6	O
3CC#9	2A-[2A]-13A		4CC#21	O
3CC#10	[2A]-[2A]-13A		4CC#22	O
3CC#11	2A-[2A]-14A		4CC#23	O
3CC#12	[2A]-[2A]-14A		4CC#24	O
3CC#13	2A-[2A]-29A	B29 SCC only	4CC#27	O
3CC#14	[2A]-[2A]-29A	B29 SCC only	4CC#28	N/A
3CC#15	2A-[2A]-30A		4CC#9	O
3CC#16	[2A]-[2A]-30A		4CC#10	O
3CC#17	[2A]-2A-46A	B46 SCC only		X
3CC#18	[2A]-[2A]-46A	B46 SCC only		N/A
3CC#19	2A-2A-[66A]		4CC#33	O
3CC#20	2A-[2A]-66A		4CC#34	O
3CC#21	2A-[2A]-[66A]		4CC#36	O
3CC#22	[2A]-[2A]-66A		4CC#37	O
3CC#23	[2A]-2A-71A		4CC#7	O
3CC#24	[2A]-[2A]-71A		4CC#8	O
3CC#25	2A-[4A]-4A		4CC#49	O
3CC#26	[2A]-4A-4A		4CC#2	O
3CC#27	2A-[4A]-[4A]		4CC#50	O
3CC#28	[2A]-[4A]-4A			O
3CC#29	2A-[4A]-5A		4CC#49	O
3CC#30	[2A]-4A-5A		4CC#3	O
3CC#31	[2A]-[4A]-5A			O
3CC#32	2A-[4A]-12A		4CC#51	O
3CC#33	[2A]-4A-12A		4CC#5	O
3CC#34	[2A]-[4A]-12A			O
3CC#35	2A-[4A]-13A			O
3CC#36	[2A]-4A-13A			O
3CC#37	[2A]-[4A]-13A			O
3CC#38	2A-[4A]-71A			O
3CC#39	[2A]-4A-71A		4CC#7	O
3CC#40	[2A]-[4A]-71A			O
3CC#41	[2A]-5A-30A		4CC#9	O
3CC#42	[2A]-5A-46A	B46 SCC only		O
3CC#43	2A-5A-[48A]	B48 SCC only		O
3CC#44	[2A]-5A-48A	B48 SCC only		O
3CC#45	[2A]-5A-[48A]	B48 SCC only		O
3CC#46	2A-5A-[66A]		4CC#62	O
3CC#47	[2A]-5A-66A		4CC#11	O
3CC#48	[2A]-5A-[66A]			O
3CC#49	[2A]-5B		4CC#13	O
3CC#50	[2A]-12A-30A		4CC#15	O
3CC#51	2A-12A-[66A]		4CC#72	O
3CC#52	[2A]-12A-66A		4CC#17	O
3CC#53	[2A]-12A-[66A]			O
3CC#54	[2A]-12B		4CC#19	O
3CC#55	[2A]-13A-46A	B46 SCC only		O
3CC#56	2A-13A-[48A]	B48 SCC only		O
3CC#57	[2A]-13A-48A	B48 SCC only		O
3CC#58	[2A]-13A-[48A]	B48 SCC only		O
3CC#59	2A-13A-[66A]		4CC#82	O
3CC#60	[2A]-13A-66A			O
3CC#61	[2A]-13A-[66A]			O
3CC#62	[2A]-14A-30A		4CC#23	O
3CC#63	2A-14A-[66A]		4CC#88	O
3CC#64	[2A]-14A-66A		4CC#25	O
3CC#65	[2A]-14A-[66A]			O

Index	3CC	Restriction	Completely Covered by Measurement Superset	Reverse
3CC#66	[2A]-29A-30A	B29 SCC only	4CC#27	O
3CC#67	2A-29A-[66A]	B29 SCC only		O
3CC#68	[2A]-29A-66A	B29 SCC only		O
3CC#69	[2A]-29A-[66A]	B29 SCC only		O
3CC#70	2A-30A-[66A]		4CC#90	O
3CC#71	[2A]-30A-66A		4CC#29	O
3CC#72	[2A]-30A-[66A]			O
3CC#73	[2A]-46A-46A	B46 SCC only		X
3CC#74	2A-46A-[48A]	B46,B48 SCC only		X
3CC#75	[2A]-46A-48A	B46,B48 SCC only		X
3CC#76	[2A]-46A-[48A]	B46,B48 SCC only		X
3CC#77	2A-46A-[66A]	B46 SCC only		O
3CC#78	[2A]-46A-66A	B46 SCC only		O
3CC#79	[2A]-46A-[66A]	B46 SCC only		O
3CC#80	[2A]-46C	B46 SCC only	4CC#80	X
3CC#81	[2A]-48A-48A	B48 SCC only		X
3CC#82	2A-[48A]-[48A]	B48 SCC only		X
3CC#83	2A-48A-[66A]	B48 SCC only		O
3CC#84	2A-[48A]-66A	B48 SCC only		O
3CC#85	[2A]-48A-66A	B48 SCC only		O
3CC#86	2A-[48A]-[66A]	B48 SCC only		O
3CC#87	[2A]-48A-[66A]	B48 SCC only		O
3CC#88	[2A]-[48A]-66A	B48 SCC only		O
3CC#89	2A-[48C]	B48 SCC only	4CC#60	X
3CC#90	[2A]-48C	B48 SCC only	4CC#61	X
3CC#91	2A-[66A]-66A		4CC#33	O
3CC#92	[2A]-66A-66A		4CC#34	O
3CC#93	2A-[66A]-[66A]		4CC#35	O
3CC#94	[2A]-[66A]-66A		4CC#36	O
3CC#95	2A-[66A]-71A		4CC#111	O
3CC#96	[2A]-66A-71A		4CC#38	O
3CC#97	[2A]-[66A]-71A			O
3CC#98	2A-[66B]		4CC#40	O
3CC#99	[2A]-66B		4CC#41	O
3CC#100	[2A]-[66B]			O
3CC#101	2A-[66C]		4CC#43	O
3CC#102	[2A]-66C		4CC#44	O
3CC#103	2C-[66A]		4CC#46	O
3CC#104	[2C]-66A		4CC#47	O
3CC#105	4A-[4A]-5A		4CC#49	O
3CC#106	[4A]-[4A]-5A		4CC#50	O
3CC#107	4A-[4A]-12A		4CC#51	O
3CC#108	[4A]-[4A]-12A		4CC#52	O
3CC#109	4A-[4A]-13A			O
3CC#110	[4A]-[4A]-13A			O
3CC#111	[4A]-4A-71A			O
3CC#112	[4A]-[4A]-71A			O
3CC#113	[4A]-5B		4CC#53	O
3CC#114	[4A]-12B		4CC#56	O
3CC#115	[4A]-46A-46A	B46 SCC only		X
3CC#116	[4A]-46C	B46 SCC only	4CC#119	X
3CC#117	4A-[48C]	B48 SCC only		X
3CC#118	[4A]-48C	B48 SCC only		X
3CC#119	5A-5A-[66A]		4CC#122	O
3CC#120	5A-30A-[66A]		4CC#126	O
3CC#121	5A-46A-[66A]	B46 SCC only		O
3CC#122	5A-[48A]-[48A]	B48 SCC only		X
3CC#123	5A-48A-[66A]	B48 SCC only		O
3CC#124	5A-[48A]-66A	B48 SCC only		O
3CC#125	5A-[48A]-[66A]	B48 SCC only		O
3CC#126	5A-[48C]	B48 SCC only	4CC#129	X
3CC#127	5A-[66A]-66A		4CC#62	O
3CC#128	5A-[66A]-[66A]		4CC#63	O
3CC#129	5A-[66B]		4CC#64	O
3CC#130	5A-[66C]		4CC#66	O

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

Index	3CC	Restriction	Completely Covered by Measurement Superset	Reverse
3CC#131	5B-[66A]		4CC#69	O
3CC#132	12A-30A-[66A]		4CC#138	O
3CC#133	12A-[66A]-66A		4CC#72	O
3CC#134	12A-[66A]-[66A]		4CC#73	O
3CC#135	12A-[66C]		4CC#74	O
3CC#136	12B-[66A]		4CC#76	O
3CC#137	13A-46A-[66A]	B46 SCC only		O
3CC#138	13A-[48A]-[48A]	B48 SCC only		X
3CC#139	13A-48A-[66A]	B48 SCC only		O
3CC#140	13A-[48A]-66A	B48 SCC only		O
3CC#141	13A-[48A]-[66A]	B48 SCC only		O
3CC#142	13A-[48C]	B48 SCC only	4CC#80	X
3CC#143	13A-[66A]-66A		4CC#82	O
3CC#144	13A-[66A]-[66A]		4CC#83	O
3CC#145	13A-[66B]		4CC#84	O
3CC#146	13A-[66C]		4CC#86	O
3CC#147	14A-30A-[66A]		4CC#149	O
3CC#148	14A-[66A]-66A		4CC#88	O
3CC#149	14A-[66A]-[66A]		4CC#89	O
3CC#150	25A-[25A]-26A			O
3CC#151	[25A]-[25A]-26A			O
3CC#152	25A-25A-[41A]	B41 SCC only		X
3CC#153	25A-[25A]-41A	B41 SCC only		O
3CC#154	25A-[25A]-[41A]	B41 SCC only		O
3CC#155	[25A]-[25A]-41A	B41 SCC only		X
3CC#156	25A-26A-[41A]	B41 SCC only		O
3CC#157	[25A]-26A-41A	B41 SCC only		O
3CC#158	[25A]-26A-[41A]	B41 SCC only		O
3CC#159	25A-[41C]	B41 SCC only	4CC#154	X
3CC#160	[25A]-41C	B41 SCC only	4CC#155	X
3CC#161	[25A]-46C	B46 SCC only		X
3CC#162	26A-[41C]	B41 SCC only	4CC#154	X
3CC#163	30A-29A-[66A]	B29 SCC only	4CC#170	O
3CC#164	30A-[66A]-66A		4CC#170	O
3CC#165	30A-[66A]-[66A]		4CC#171	O
3CC#166	[66A]-46A-46A	B46 SCC only		X
3CC#167	66A-46A-[48A]	B46,B48 SCC only		X
3CC#168	[66A]-46A-48A	B46,B48 SCC only		X
3CC#169	[66A]-46A-[48A]	B46,B48 SCC only		X
3CC#170	[66A]-46C	B46 SCC only	4CC#97	X
3CC#171	66A-[48A]-[48A]	B48 SCC only		X
3CC#172	[66A]-48A-48A	B48 SCC only	4CC#174	X
3CC#173	[66A]-[48A]-48A	B48 SCC only		X
3CC#174	66A-[48C]	B48 SCC only	4CC#107	X
3CC#175	[66A]-48C	B48 SCC only	4CC#106	X
3CC#176	66A-[66A]-46A	B46 SCC only		O
3CC#177	[66A]-[66A]-46A	B46 SCC only		N/A
3CC#178	66A-66A-[48A]	B48 SCC only		N/A
3CC#179	66A-[66A]-48A	B48 SCC only	4CC#174	O
3CC#180	66A-[66A]-[48A]	B48 SCC only		O
3CC#181	[66A]-[66A]-48A	B48 SCC only	4CC#175	N/A
3CC#182	66A-[66A]-71A		4CC#111	O
3CC#183	[66A]-[66A]-71A		4CC#112	O
3CC#184	[66B]-[48A]	B48 SCC only	4CC#180	N/A
3CC#185	[66B]-48A	B48 SCC only	4CC#179	N/A
3CC#186	[66C]-[48A]	B48 SCC only	4CC#184	N/A
3CC#187	[66C]-48A	B48 SCC only	4CC#183	N/A
3CC#188	[66C]-71A		4CC#113	O
3CC#189	71A-[48A]-[48A]	B48 SCC only		X
3CC#190	71A-[48C]	B48 SCC only		X
3CC#191	41A-[41C]			O
3CC#192	[41A]-41C			O
3CC#193	[48A]-[48C]			O
3CC#194	66C-[66A]			O
3CC#195	[66C]-66A			O

Index	4CC	Restriction	Completely Covered by Measurement Superset	Reverse
4CC#1	2A-[2A]-4A-4A			O
4CC#2	[2A]-[2A]-4A-4A			O
4CC#3	2A-[2A]-4A-5A			O
4CC#4	[2A]-[2A]-4A-5A			O
4CC#5	2A-[2A]-4A-12A			O
4CC#6	[2A]-[2A]-4A-12A			O
4CC#7	2A-[2A]-4A-71A			O
4CC#8	[2A]-[2A]-4A-71A			O
4CC#9	2A-[2A]-5A-30A			O
4CC#10	[2A]-[2A]-5A-30A			O
4CC#11	2A-[2A]-5A-66A			O
4CC#12	[2A]-[2A]-5A-66A			O
4CC#13	2A-[2A]-5B-5B			O
4CC#14	[2A]-[2A]-5B-5B			O
4CC#15	2A-[2A]-12A-30A			O
4CC#16	[2A]-[2A]-12A-30A			O
4CC#17	2A-[2A]-12A-66A			O
4CC#18	[2A]-[2A]-12A-66A			O
4CC#19	2A-[2A]-12B-12B			O
4CC#20	[2A]-[2A]-12B-12B			O
4CC#21	2A-[2A]-13A-66A			O
4CC#22	[2A]-[2A]-13A-66A			O
4CC#23	2A-[2A]-14A-30A			O
4CC#24	[2A]-[2A]-14A-30A			O
4CC#25	2A-[2A]-14A-66A			O
4CC#26	[2A]-[2A]-14A-66A			O
4CC#27	2A-[2A]-29A-30A	B29 SCC only		O
4CC#28	[2A]-[2A]-29A-30A	B29 SCC only		O
4CC#29	2A-[2A]-30A-66A			O
4CC#30	[2A]-[2A]-30A-66A			O
4CC#31	[2A]-2A-46C	B46 SCC only		X
4CC#32	[2A]-[2A]-46C	B46 SCC only		X
4CC#33	2A-2A-[66A]-66A			O
4CC#34	[2A]-2A-66A-66A			O
4CC#35	2A-2A-[66A]-[66A]			O
4CC#36	[2A]-2A-[66A]-66A			O
4CC#37	[2A]-[2A]-66A-66A			O
4CC#38	[2A]-2A-66A-71A			O
4CC#39	[2A]-[2A]-66A-71A			O
4CC#40	2A-2A-[66B]			O
4CC#41	2A-[2A]-66B			O
4CC#42	[2A]-[2A]-66B			O
4CC#43	2A-2A-[66C]			O
4CC#44	[2A]-2A-66C			O
4CC#45	[2A]-[2A]-66C			O
4CC#46	2C-[66A]-66A			O
4CC#47	[2C]-66A-66A			O
4CC#48	2C-[66A]-[66A]			O
4CC#49	2A-[4A]-4A-5A			O
4CC#50	2A-[4A]-[4A]-5A			O
4CC#51	2A-[4A]-4A-12A			O
4CC#52	2A-[4A]-[4A]-12A			O
4CC#53	2A-[4A]-5B			O
4CC#54	[2A]-4A-5B			O
4CC#55	[2A]-[4A]-5B			O
4CC#56	2A-[4A]-12B			O
4CC#57	[2A]-4A-12B			O
4CC#58	[2A]-[4A]-12B			O
4CC#59	[2A]-5A-46C	B46 SCC only		O
4CC#60	2A-5A-[48C]	B48 SCC only		O
4CC#61	[2A]-5A-48C	B48 SCC only		O
4CC#62	2A-5A-[66A]-66A			O
4CC#63	2A-5A-[66A]-[66A]			O
4CC#64	2A-5A-[66B]			O
4CC#65	[2A]-5A-66B			O

Index	4CC	Restriction	Completely Covered by Measurement Superset	Reverse
4CC#66	2A-5A-[66C]			O
4CC#67	[2A]-5A-66C			O
4CC#68	[2A]-5B-30A			O
4CC#69	2A-5B-[66A]			O
4CC#70	[2A]-5B-66A			O
4CC#71	[2A]-5B-[66A]			O
4CC#72	2A-12A-[66A]-66A			O
4CC#73	2A-12A-[66A]-[66A]			O
4CC#74	2A-12A-[66C]			O
4CC#75	[2A]-12A-66C			O
4CC#76	2A-12B-[66A]			O
4CC#77	[2A]-12B-66A			O
4CC#78	[2A]-12B-[66A]			O
4CC#79	[2A]-13A-46C	B46 SCC only		O
4CC#80	2A-13A-[48C]	B48 SCC only		O
4CC#81	[2A]-13A-48C	B48 SCC only		O
4CC#82	2A-13A-[66A]-66A			O
4CC#83	2A-13A-[66A]-[66A]			O
4CC#84	2A-13A-[66B]			O
4CC#85	[2A]-13A-66B			O
4CC#86	2A-13A-[66C]			O
4CC#87	[2A]-13A-66C			O
4CC#88	2A-14A-[66A]-66A			O
4CC#89	2A-14A-[66A]-[66A]			O
4CC#90	2A-30A-[66A]-66A			O
4CC#91	2A-30A-[66A]-[66A]			O
4CC#92	[2A]-46A-46C	B46 SCC only		X
4CC#93	[2A]-46D	B46 SCC only		X
4CC#94	2A-46C-[48A]	B46,B48 SCC only		X
4CC#95	[2A]-46C-48A	B46,B48 SCC only		X
4CC#96	[2A]-46C-[48A]	B46,B48 SCC only		X
4CC#97	2A-46C-[66A]	B46 SCC only		O
4CC#98	[2A]-46C-66A	B46 SCC only		O
4CC#99	[2A]-46C-[66A]	B46 SCC only		O
4CC#100	2A-46A-[48C]	B46,B48 SCC only		X
4CC#101	[2A]-46A-48C	B46,B48 SCC only		X
4CC#102	2A-48A-[48C]	B48 SCC only		X
4CC#103	2A-[48A]-48C	B48 SCC only		X
4CC#104	[2A]-48A-48C	B48 SCC only		X
4CC#105	[2A]-[48A]-48C	B48 SCC only		X
4CC#106	2A-48C-[66A]	B48 SCC only		O
4CC#107	2A-[48C]-66A	B48 SCC only		O
4CC#108	[2A]-48C-66A	B48 SCC only		O
4CC#109	[2A]-48C-[66A]	B48 SCC only		O
4CC#110	[2A]-48D	B48 SCC only		X
4CC#111	2A-[66A]-66A-71A			O
4CC#112	2A-[66A]-[66A]-71A			O
4CC#113	2A-[66C]-71A			O
4CC#114	[2A]-66C-71A			O
4CC#115	4A-[4A]-5B			O
4CC#116	[4A]-[4A]-5B			O
4CC#117	[4A]-[4A]-12B			O
4CC#118	[4A]-[4A]-12B			O
4CC#119	[4A]-46A-46C	B46 SCC only		X
4CC#120	[4A]-46D	B46 SCC only		X
4CC#121	[4A]-48D	B48 SCC only		X
4CC#122	5A-5A-[66A]-66A			O
4CC#123	5A-5A-[66A]-[66A]			O
4CC#124	5A-5A-[66B]			O
4CC#125	5A-5A-[66C]			O
4CC#126	5A-30A-[66A]-66A			O
4CC#127	5A-30A-[66A]-[66A]			O
4CC#128	5A-46C-[66A]	B46 SCC only		O
4CC#129	5A-48A-[48C]	B48 SCC only		X
4CC#130	5A-[48A]-48C	B48 SCC only		X

**LTE Release 10 Carrier Aggregation with 4x4 MIMO (continued)**

Index	4CC	Restriction	Completely Covered by Measurement Superset	Reverse	Index	4CC	Restriction	Completely Covered by Measurement Superset	Reverse
4CC#131	5A-48C-[66A]	B48 SCC only		O	4CC#161	[66A]-46C-48A	B46,B48 SCC only		X
4CC#132	5A-[48C]-66A	B48 SCC only		O	4CC#162	[66A]-46C-[48A]	B46,B48 SCC only		X
4CC#133	5B-30A-[66A]			O	4CC#163	66A-46A-[48C]	B46,B48 SCC only		X
4CC#134	5B-[66A]-66A			O	4CC#164	[66A]-46A-48C	B46,B48 SCC only		X
4CC#135	5B-[66A]-[66A]			O	4CC#165	66A-48A-[48C]	B48 SCC only		X
4CC#136	5B-[66B]			O	4CC#166	66A-[48A]-48C	B48 SCC only		X
4CC#137	5B-[66C]			O	4CC#167	[66A]-48A-48C	B48 SCC only		X
4CC#138	12A-30A-[66A]-66A			O	4CC#168	[66A]-[48A]-48C	B48 SCC only		X
4CC#139	12A-30A-[66A]-[66A]			O	4CC#169	[66A]-48D	B48 SCC only		X
4CC#140	13A-46C-[66A]	B46 SCC only		O	4CC#170	66A-[66A]-29A-30A	B29 SCC only		O
4CC#141	13A-48A-[48C]	B48 SCC only		X	4CC#171	[66A]-[66A]-29A-30A	B29 SCC only		O
4CC#142	13A-[48A]-48C	B48 SCC only		X	4CC#172	66A-[66A]-46C	B46 SCC only		O
4CC#143	13A-48C-[66A]	B48 SCC only		O	4CC#173	[66A]-[66A]-46C	B46 SCC only		X
4CC#144	13A-[48C]-66A	B48 SCC only		O	4CC#174	66A-[66A]-48A-48A	B48 SCC only		O
4CC#145	13A-48A-[66B]	B48 SCC only		O	4CC#175	[66A]-[66A]-48A-48A	B48 SCC only		X
4CC#146	13A-[48A]-66B	B48 SCC only		O	4CC#176	66A-66A-[48C]	B48 SCC only		X
4CC#147	13A-48A-[66C]	B48 SCC only		O	4CC#177	66A-[66A]-48C	B48 SCC only		O
4CC#148	13A-[48A]-66C	B48 SCC only		O	4CC#178	[66A]-[66A]-48C	B48 SCC only		X
4CC#149	14A-30A-[66A]-66A			O	4CC#179	[66B]-48A-48A	B48 SCC only		X
4CC#150	14A-30A-[66A]-[66A]			O	4CC#180	66B-[48A]-[48A]	B48 SCC only		X
4CC#151	25A-25A-[41C]			X	4CC#181	66B-[48C]	B48 SCC only		X
4CC#152	25A-[25A]-41C			O	4CC#182	[66B]-48C	B48 SCC only		X
4CC#153	[25A]-[25A]-41C			X	4CC#183	[66C]-48A-48A	B48 SCC only		X
4CC#154	25A-26A-[41C]			O	4CC#184	66C-[48A]-[48A]	B48 SCC only		X
4CC#155	[25A]-26A-41C			O	4CC#185	66C-[48C]	B48 SCC only		X
4CC#156	[25A]-41D			X	4CC#186	[66C]-48C	B48 SCC only		X
4CC#157	[25A]-46D	B46 SCC only		X	4CC#187	[41A]-41D			O
4CC#158	[66A]-46A-46C	B46 SCC only		X	4CC#188	41C-[41C]			O
4CC#159	[66A]-46D	B46 SCC only		X	4CC#189	[48A]-48D			X
4CC#160	66A-46C-[48A]	B46,B48 SCC only		X	4CC#190	[48C]-48C			X

**Note:**

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).  
 [\*] is 4X4 MIMO configuration.

**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	19100	1900.0	1/99	24.3	24.2	-0.12
Band 4	QPSK	20	20175	1732.5	1/49	24.2	24.2	-0.04
Band 25	QPSK	20	26140	1860	1/99	24.3	24.4	0.05
Band 41	QPSK	20	40620	2593	1/49	23.9	23.9	-0.04
Band 48	QPSK	20	56640	3690	1/0	22.3	22.3	-0.08
Band 66	QPSK	20	132572	1770	1/0	24.7	24.7	-0.09

**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	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	PCC			SCC1			SCC2			SCC3								
	1st	2nd	3rd	4th						BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel				Freq. (MHz)			
4A-4A	04A	48A			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56640	3690									24.2	24.2	0.00	
12A-46A	12A	46A			QPSK	10	23095	707.5	1/0	10	5095	737.5	20	50665	5537.5										24.4	24.3	-0.11
25A-46A	25A	46A			QPSK	20	26140	1860	1/99	20	8140	1940	20	50665	5537.5										24.3	24.4	0.10
2A-2A-46A	02A	02A	46A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	50665	5537.5							24.3	24.3	-0.03
2A-4A-13A	02A	04A	13A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	5230	751							24.3	24.4	0.09
	04A	02A	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751							24.2	24.3	0.08
	13A	02A	04A		QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	2175	2132.5							24.2	24.3	0.03
2A-5A-46A	02A	05A	46A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	50665	5537.5							24.3	24.4	0.09
	05A	02A	46A		QPSK	10	20525	836.5	0.0	10	2525	881.5	20	900	1960	20	50665	5537.5							24.6	24.7	0.11
2A-5A-48A	02A	05A	48A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	56640	3690							24.3	24.5	0.14
	05A	02A	48A		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	56640	3690							24.6	24.6	0.01
2A-13A-46A	02A	13A	46A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	50665	5537.5							24.3	24.3	0.00
	13A	02A	46A		QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	50665	5537.5							24.2	24.2	-0.08
2A-13A-48A	02A	13A	48A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	56640	3690							24.3	24.5	0.14
	13A	02A	48A		QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	56640	3690							24.2	24.3	0.08
2A-29A-66A	02A	29A	66A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	9715	722.5	20	66786	2145							24.3	24.3	-0.04
	66A	02A	29A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	10	9715	722.5							24.7	24.7	-0.10
2A-4A-46A	02A	46A	46A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	47090	5180							24.3	24.3	-0.04
2A-4A-48A	02A	46A	48A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	56640	3690							24.3	24.5	0.11
2A-46A-66A	02A	46A	66A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	66786	2145							24.3	24.4	0.07
	66A	02A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	50665	5537.5							24.7	24.7	-0.01
2A-48A-48A	02A	48A	48A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7							24.3	24.2	-0.11
2A-48A-66A	02A	48A	66A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	66786	2145							24.3	24.4	0.03
	66A	02A	48A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690							24.7	24.7	-0.10
4A-4A-13A	04A	04A	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	5230	751							24.2	24.1	-0.11
	13A	04A	04A		QPSK	10	23230	782	1/49	10	5230	751	20	2175	2132.5	10	2350	2150							24.2	24.4	0.13
	04A	04A	71A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	68761	634.5							24.2	24.3	0.10
4A-4A-71A	71A	04A	04A		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	2175	2132.5	10	2350	2150							24.8	24.9	0.08
4A-46A-46A	04A	46A	46A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	50665	5537.5	20	47090	5180							24.2	24.3	0.11
4A-48C	04A	48C	48C		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56640	3690	20	56442	3670.2							24.2	24.2	-0.01
5A-46A-66A	05A	46A	66A		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	50665	5537.5	20	66786	2145							24.6	24.5	-0.10
	66A	05A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	10	2525	881.5	20	50665	5537.5							24.7	24.8	0.09
5A-48A-48A	05A	48A	48A		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	56207	3646.7							24.6	24.6	0.05
5A-48A-66A	05A	48A	66A		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	66786	2145							24.6	24.5	-0.01
5B-46A	06A	05A	48A		QPSK	20	132572	1770	1/0	20	67036	2170	10	2525	881.5	20	56640	3690							24.7	24.7	-0.10
	05B	05B	46A		QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	50665	5537.5							24.7	24.8	0.08
12A-46C	12A	46C	46C		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	50665	5537.5	20	50467	5517.7							24.4	24.5	0.07
13A-46A-66A	13A	46A	66A		QPSK	10	23230	782	1/49	10	5230	751	20	50665	5537.5	20	66786	2145							24.2	24.4	0.12
	66A	13A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	10	5230	751	20	50665	5537.5							24.7	24.8	0.00
13A-48A-48A	13A	48A	48A		QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56207	3646.7							24.2	24.3	0.02
	13A	48A	66A		QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	66786	2145							24.2	24.4	0.12
13A-48A-66A	66A	13A	48A		QPSK	20	132572	1770	1/0	20	67036	2170	10	5230	751	20	56640	3690							24.7	24.6	-0.12
	02A	25A	26A		QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	5	8865	876.5							24.3	24.3	-0.03
25A-25A-26A	26A	25A	25A		QPSK	5	27015	846.5	1/0	5	9015	891.5	20	8365	1962.5	20	8590	1985							24.9	25.0	0.10
25A-25A-41A	25A	25A	41A		QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	20	40620	2593							24.3	24.4	0.11
25A-26A-41A	25A	26A	41A		QPSK	20	26140	1860	1/99	20	8140	1940	15	8865	876.5	20	40620	2593							24.3	24.3	-0.02
	26A	25A	41A		QPSK	15	26865	831.5	1/74	15	8865	876.5	20	8365	1962.5	20	40620	2593							24.7	24.6	-0.11
25A-46C	25A	46C	46C		QPSK	20	26140	1860	1/99	20	8140	1940	20	50665	5537.5	20	50467	5517.7							24.3	24.3	-0.01
66A-46A-46A	66A	46A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	47090	5180							24.7	24.7	-0.04
66A-46A-48A	66A	46A	48A		QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	56640	3690							24.7	24.6	-0.12
66A-66A-46A	66A	66A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	50665	5537.5							24.7	24.8	0.03
48A-48A-71A	71A	48A	48A		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	56640	3690	20	56207	3646.7							24.8	24.9	0.12
71A-48C	71A	48C	48C		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	56640	3690	20	56442	3670.2							24.8	24.8	0.01
2A-2A-4A-4A	02A	02A	04A	04A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	2350	2150				24.3	24.2	-0.12
	04A	04A	02A	02A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150												

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				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-5B	02A	02A	05B	05B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	2600	889.0	10	2501	879.1	24.3	24.2	-0.10
	05B	05B	02A	02A	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	1100	1980	24.7	24.6	-0.09
2A-2A-12A-30A	02A	02A	12A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5095	737.5	10	9820	2355	24.3	24.4	0.06
	12A	02A	02A	30A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	1100	1980	10	9820	2355	24.4	24.5	0.10
	30A	02A	02A	12A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	1100	1980	10	5095	737.5	21.8	21.7	-0.07
	02A	02A	12A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5095	737.5	20	66786	2145	24.3	24.4	0.02
2A-2A-12A-66A	12A	02A	02A	66A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	1100	1980	20	66786	2145	24.4	24.4	0.00
	66A	02A	02A	12A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	5095	737.5	24.7	24.8	0.07
	02A	02A	12B	12B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	5	5095	737.5	5	5143	742.3	24.3	24.4	0.10
2A-2A-12B	12B	12B	02A	02A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	1100	1980	24.5	24.6	0.12
	02A	02A	13A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5230	751	20	66786	2145	24.3	24.5	0.11
2A-2A-13A-66A	13A	02A	02A	66A	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	1100	1980	20	66786	2145	24.2	24.2	-0.06
	66A	02A	02A	13A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	5230	751	24.7	24.6	-0.12
	02A	02A	14A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5330	763	10	9820	2355	24.3	24.3	-0.01
2A-2A-14A-30A	14A	02A	02A	30A	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	1100	1980	10	9820	2355	24.1	24.0	-0.11
	30A	02A	02A	14A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	1100	1980	10	5330	763	21.8	21.9	0.11
	02A	02A	14A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5330	763	20	66786	2145	24.3	24.3	-0.09
	14A	02A	02A	66A	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	1100	1980	20	66786	2145	24.1	24.0	-0.05
2A-2A-14A-66A	66A	02A	02A	14A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	5330	763	24.7	24.6	-0.11
	02A	02A	29A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	9715	722.5	10	9820	2355	24.3	24.3	-0.09
	30A	02A	02A	29A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	1100	1980	10	9715	722.5	21.8	21.8	0.02
2A-2A-30A-66A	02A	02A	30A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	9820	2355	20	66786	2145	24.3	24.4	0.07
	30A	02A	02A	66A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	1100	1980	20	66786	2145	21.8	21.8	0.03
	66A	02A	02A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	9820	2355	24.7	24.9	0.12
2A-2A-46C	02A	02A	46C	46C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	50665	5537.5	20	50467	5517.7	24.3	24.4	0.07
2A-2A-66A-66A	02A	02A	66A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	66786	2145	20	67036	2170	24.3	24.4	0.04
	66A	66A	02A	02A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	1100	1980	24.7	24.9	0.12
2A-2A-66A-71A	02A	02A	66A	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	66786	2145	20	68761	634.5	24.3	24.5	0.14
	66A	02A	02A	71A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	20	68761	634.5	24.7	24.7	-0.08
	71A	02A	02A	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	1100	1980	20	66786	2145	24.8	24.9	0.11
2A-2A-66B	02A	02A	66B	66B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	15	67061	2172.5	5	66968	2163.2	24.3	24.5	0.12
	66B	66B	02A	02A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	900	1960	20	1100	1980	24.4	24.3	-0.08
2A-2A-66C	02A	02A	66C	66C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	67036	2170	20	66838	2150.2	24.3	24.3	-0.05
	66C	66C	02A	02A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	20	1100	1980	24.7	24.8	0.08
2A-4A-4A-5A	02A	04A	04A	05A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2350	2150	10	2525	881.5	24.3	24.5	0.13
	04A	04A	02A	05A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	10	2525	881.5	24.2	24.3	0.06
	05A	02A	04A	04A	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	2175	2132.5	10	2350	2150	24.6	24.7	0.10
	02A	04A	04A	12A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2350	2150	10	5095	737.5	24.3	24.5	0.12
2A-4A-4A-12A	04A	04A	02A	12A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	10	5095	737.5	24.2	24.2	-0.03
	12A	02A	04A	04A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	2175	2132.5	10	2350	2150	24.4	24.3	-0.09
	02A	04A	05B	05B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2600	889.0	10	2501	879.1	24.3	24.2	-0.10
2A-4A-5B	04A	02A	05B	05B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	2600	889.0	10	2501	879.1	24.2	24.1	-0.10
	05B	05B	02A	04A	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	2175	2132.5	24.7	24.7	-0.04
	02A	04A	12B	12B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	5	5095	737.5	5	5143	742.3	24.3	24.2	-0.13
2A-4A-12B	04A	02A	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	5	5095	737.5	5	5143	742.3	24.2	24.3	0.06
	12B	12B	02A	04A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	2175	2132.5	24.5	24.4	-0.11
2A-5A-46C	02A	05A	46C	46C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	50665	5537.5	20	50467	5517.7	24.3	24.3	-0.07
	05A	02A	46C	46C	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	50665	5537.5	20	50467	5517.7	24.6	24.7	0.14
2A-5A-48C	02A	05A	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	56640	3690	20	56442	3670.2	24.3	24.3	0.00
	05A	02A	48C	48C	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	56640	3690	20	56442	3670.2	24.6	24.6	-0.09
	02A	05A	66A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	66786	2145	20	67036	2170	24.3	24.4	0.03
2A-5A-66A-66A	05A	02A	66A	66A	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	66786	2145	20	67036	2170	24.6	24.5	-0.01
	66A	66A	02A	05A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	2525	881.5	24.7	24.9	0.11
	02A	05A	66B	66B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0</												



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				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-12B-66A	02A	12B	12B	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	5	5095	737.5	5	5143	742.3	20	66786	2145	24.3	24.2	-0.11
	12B	12B	02A	66A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	66786	2145	24.5	24.5	0.04
	66A	02A	12B	12B	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	5	5095	737.5	5	5143	742.3	24.7	24.8	0.04
2A-13A-46C	02A	13A	46C	46C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	50665	5537.5	20	50467	5517.7	24.3	24.4	0.07
	13A	02A	46C	46C	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	50665	5537.5	20	50467	5517.7	24.2	24.1	-0.12
	02A	13A	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	56640	3690	20	56442	3670.2	24.3	24.3	-0.09
2A-13A-48C	13A	02A	48C	48C	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	56640	3690	20	56442	3670.2	24.2	24.2	-0.07
	02A	13A	66A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	66786	2145	20	67036	2170	24.3	24.5	0.11
	13A	02A	66A	66A	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	66786	2145	20	67036	2170	24.2	24.3	0.05
2A-13A-66A-66A	66A	66A	02A	13A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	5230	751	24.7	24.8	0.04
	02A	13A	66B	66B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	15	67061	2172.5	5	66968	2163.2	24.3	24.5	0.14
	13A	02A	66B	66B	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	15	67061	2172.5	5	66968	2163.2	24.2	24.3	0.09
2A-13A-66B	66B	66B	02A	13A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	900	1960	10	5230	751	24.4	24.5	0.14
	02A	13A	66C	66C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	67036	2170	20	66838	2150.2	24.3	24.3	0.00
	13A	02A	66C	66C	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	67036	2170	20	66838	2150.2	24.2	24.3	0.06
2A-13A-66C	66C	66C	02A	13A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	10	5230	751	24.7	24.7	-0.09
	02A	14A	66A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5330	763	20	66786	2145	20	67036	2170	24.3	24.2	-0.12
	14A	02A	66A	66A	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	66786	2145	20	67036	2170	24.1	24.0	-0.09
2A-14A-66A-66A	66A	66A	02A	14A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	5330	763	24.7	24.7	-0.02
	02A	30A	66A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	9820	2355	20	66786	2145	20	67036	2170	24.3	24.4	0.09
	30A	02A	66A	66A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	21.8	21.7	-0.12
2A-30A-66A-66A	66A	66A	02A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	9820	2355	24.7	24.7	-0.10
	02A	48A	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.3	24.3	-0.05
	48A	02A	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56442	3670.2	20	56442	3670.2	24.7	24.7	-0.03
2A-48C-66A	66A	02A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.03
	02A	48D	48D	48D	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56442	3670.2	20	56244	3650.4	24.3	24.3	-0.01
	02A	66A	66A	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	66786	2145	20	67036	2170	20	68761	634.5	24.3	24.2	-0.10
2A-66A-66A-71A	66A	66A	02A	71A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	68761	634.5	24.7	24.9	0.11
	71A	02A	66A	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	67036	2170	24.8	24.6	-0.13
	02A	66A	66B	66B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	67036	2170	15	66786	2145	5	66693	2135.7	24.3	24.3	-0.07
2A-66A-66B	66A	66B	66B	02A	QPSK	20	132572	1770	1/0	20	67036	2170	15	66786	2145	5	66693	2135.7	20	900	1960	24.7	24.7	-0.02
	66B	66B	66A	02A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	66536	2120	20	900	1960	24.4	24.3	-0.01
	02A	66C	66C	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	67036	2170	20	66838	2150.2	20	68761	634.5	24.3	24.4	0.04
2A-66C-71A	66C	66C	02A	71A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	20	68761	634.5	24.7	24.7	-0.02
	71A	02A	66C	66C	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	67036	2170	20	66838	2150.2	24.8	24.7	-0.11
	02C	02C	66A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	902	1960.2	20	66786	2145	20	67036	2170	24.3	24.4	0.10
2C-66A-66A	66A	66A	02C	02C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	1098	1979.8	24.7	24.8	0.01
	04A	04A	05B	05B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	2600	889.0	10	2501	879.1	24.2	24.2	-0.04
	05B	05B	04A	04A	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	2175	2132.5	10	2350	2150	24.7	24.7	-0.05
4A-4A-5B	04A	04A	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	5	5095	737.5	5	5143	742.3	24.2	24.3	0.07
	12B	12B	04A	04A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	2175	2132.5	10	2350	2150	24.5	24.6	0.08
	04A	46A	46C	46C	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	50665	5537.5	20	53540	5825	20	53342	5805.2	24.2	24.1	-0.08
4A-46A-46C	04A	46D	46D	46D	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.2	24.3	0.10
	04A	48D	48D	48D	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56640	3690	20	56442	3670.2	20	56244	3650.4	24.2	24.1	-0.10
	05A	05A	66A	66A	QPSK	10	20600	844	1/0	10	2600	889	10	2450	874	20	66786	2145	20	67036	2170	24.7	24.7	-0.03
5A-5A-66A-66A	66A	66A	05A	05A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2600	889	10	2450	874	24.7	24.9	0.14
	05A	05A	66B	66B	QPSK	10	20600	844	1/0	10	2600	889	10	2450	874	15	67061	2172.5	5	66968	2163.2	24.7	24.8	0.11
	66B	66B	05A	05A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	10	2600	889	10	2450	874	24.4	24.2	-0.11
5A-5A-66B	05A	05A	66C	66C	QPSK	10	20600	844	1/0	10	2600	889	10	2450	874	20	67036	2170	20	66838	2150.2	24.7	24.8	0.11
	66C	66C	05A	05A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	10	2600	889	10	2450	874	24.7	24.7	-0.09
	05A	30A	66A	66A	QPSK	10	20525	836.5	1/49	10	2525	881.5	10	9820	2355	20	66786	2145	20	67036	2170	24.6	24.7	0.12
5A-30A-66A-66A	30A	05A	66A	66A	QPSK	10	27710	2310	1/0	10	9820	2355	10	2525	881.5	20	66786	2145	20	67036	2170	21.8	21.9	0.14
	66A	66A	05A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2525	881.5	10	9820	2355	24.7	24.7	-0.04
	05A	46C	46C	66A	QPSK	10	20525	836.5	1/49	10	2525													



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				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)	
5B-66C	05B	05B	66C	66C	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	67036	2170	20	66838	2150.2	24.7	24.7	-0.01	
	66C	66C	05B	05B	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	10	2600	889.0	10	2501	879.1	24.7	24.8	0.06	
	12A	30A	66A	66A	QPSK	10	23095	707.5	1/0	10	5095	737.5	10	9820	2355	20	66786	2145	20	67036	2170	24.4	24.4	0.02	
	30A	12A	66A	66A	QPSK	10	27710	2310	1/0	10	9820	2355	10	5095	737.5	20	66786	2145	20	67036	2170	21.8	21.9	0.09	
2A-46A-46C	66A	66A	12A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	5095	737.5	10	9820	2355	24.7	24.7	-0.08	
	02A	46A	46C	46C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	53540	5825	20	53342	5805.2	24.3	24.2	-0.12	
	2A-46A-48C	02A	46A	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	56640	3690	20	56442	3670.2	24.3	24.4	0.02
	2A-46C-48A	02A	46C	46C	48A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	56640	3690	24.3	24.4	0.02
2A-46C-66A	02A	46C	46C	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.3	24.3	-0.07	
	66A	02A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	50665	5537.5	20	50467	5517.7	24.7	24.8	0.05	
2A-46D	02A	46D	46D	46D	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.3	24.3	-0.06	
12A-46D	12A	46D	46D	46D	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.4	24.4	-0.03	
	13A	46C	46C	66A	QPSK	10	23230	782	1/49	10	5230	751	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.2	24.3	0.10	
13A-46C-66A	66A	13A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	10	5230	751	20	50665	5537.5	20	50467	5517.7	24.7	24.8	0.07	
	13A	46D	46D	46D	QPSK	10	23230	782	1/49	10	5230	751	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.2	24.3	0.06	
13A-48A-48C	13A	48A	48C	48C	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.2	24.2	-0.03	
	13A	48A	66B	66B	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	15	67061	2172.5	5	66968	2163.2	24.2	24.3	0.02	
13A-48A-66C	66B	66B	13A	48A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	10	5230	751	20	56640	3690	24.4	24.4	0.02	
	13A	48A	66C	66C	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56442	3670.2	20	66838	2150.2	24.2	24.2	-0.09	
	66C	66C	13A	48A	QPSK	20	132572	1770	1/0	20	67036	2170	10	5230	751	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.02	
	13A	48C	48C	66A	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56442	3670.2	20	66786	2145	24.2	24.3	0.03	
13A-48C-66A	66A	13A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	10	5230	751	20	56640	3690	20	56442	3670.2	24.7	24.6	-0.11	
	13A	48D	48D	48D	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56442	3670.2	20	56244	3650.4	24.2	24.2	-0.02	
14A-30A-66A-66A	14A	30A	66A	66A	QPSK	10	23330	793	1/49	10	5330	763	10	9820	2355	20	66786	2145	20	67036	2170	24.1	24.1	0.00	
	30A	14A	66A	66A	QPSK	10	27710	2310	1/0	10	9820	2355	10	5330	763	20	66786	2145	20	67036	2170	21.8	21.8	-0.05	
	66A	66A	14A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	5330	763	10	9820	2355	24.7	24.6	-0.11	
	25A	25A	41C	41C	QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	20	40620	2593	20	40818	2612.8	24.3	24.3	0.02	
25A-26A-41C	25A	26A	41C	41C	QPSK	20	26140	1860	1/99	20	8140	1940	15	8865	876.5	20	40620	2593	20	40818	2612.8	24.3	24.2	-0.11	
	26A	25A	41C	41C	QPSK	15	26865	831.5	1/74	15	8865	876.5	20	8365	1962.5	20	40620	2593	20	40818	2612.8	24.7	24.7	-0.02	
25A-41D	25A	41D	41D	41D	QPSK	20	26140	1860	1/99	20	8140	1940	20	40620	2593	20	40818	2612.8	20	41016	2632.6	24.3	24.3	0.01	
25A-46D	25A	46D	46D	46D	QPSK	20	26140	1860	1/99	20	8140	1940	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.3	24.2	-0.07	
30A-29A-66A-66A	30A	29A	66A	66A	QPSK	10	27710	2310	1/0	10	9820	2355	10	9715	722.5	20	66786	2145	20	67036	2170	21.8	21.8	0.02	
	66A	66A	29A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	9715	722.5	10	9820	2355	24.7	24.7	-0.09	
	66A	46A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	53540	5825	20	53342	5805.2	24.7	24.8	0.01	
	66A-46A-46C	66A	46A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	56640	3690	20	56442	3670.2	24.7	24.6	-0.13
	66A-46C-48A	66A	46C	46C	48A	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	50467	5517.7	20	56640	3690	24.7	24.7	-0.09
	66A-46D	66A	46D	46D	46D	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.7	24.6	-0.13
	66A-48A-48C	66A	48A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.7	24.8	0.08
	66A-48D	66A	48D	48D	48D	QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56442	3670.2	20	56244	3650.4	24.7	24.9	0.14
	66A-66A-46C	66A	66A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	50665	5537.5	20	50467	5517.7	24.7	24.8	0.09
	66A-66A-48A-48A	66A	66A	48A	48A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56207	3646.7	24.7	24.8	0.06
	66A-66A-48C	66A	66A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56442	3670.2	24.7	24.9	0.13
	66B-48A-48A	66B	66B	48A	48A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	56640	3690	20	56207	3646.7	24.4	24.5	0.11
	66B-48C	66B	66B	48C	48C	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	56640	3690	20	56442	3670.2	24.4	24.4	0.08
	66C-48A-48A	66C	66C	48A	48A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	56640	3690	20	56207	3646.7	24.7	24.8	0.06
	66C-48C	66C	66C	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.05
	41A-41A	41A	41A			QPSK	20	40620	2593	1/49	20	40620	2593	20	41055	2636.5							23.9	23.9	-0.06
48A-48A	48A	48A			QPSK	20	56640	3690	1/0	20	56640														

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 [dBm]	Delta				
	PCC	SCC1	SCC2	SCC3	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	PCC			SCC1			SCC2			SCC3								
	1st	2nd	3rd	4th						BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel				Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)
4A-[48A]	04A	[48A]			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56640	3690									24.2	24.1	-0.06	
[4A]-48A	[04A]	48A			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56640	3690										24.2	24.4	0.15
[4A]-[48A]	[04A]	[48A]			QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56640	3690										24.2	24.1	-0.12
[25A]-46A	[25A]	46A			QPSK	20	26140	1860	1/99	20	8140	1940	20	50665	5537.5										24.3	24.3	0.00
2A-2A-[4A]	02A	02A	[04A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5							24.3	24.4	0.07
	[04A]	02A	02A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	1100	1980							24.2	24.2	-0.05
[2A]-2A-[4A]	[02A]	02A	[04A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5							24.3	24.2	-0.13
	02A	[02A]	[04A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5							24.3	24.4	0.07
	[04A]	[02A]	02A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	1100	1980							24.2	24.2	-0.01
[2A]-2A-46A	[02A]	02A	46A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	50665	5537.5							24.3	24.2	-0.11
[2A]-[2A]-46A	[02A]	[02A]	46A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	50665	5537.5							24.3	24.4	0.02
	[02A]	[04A]	04A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2350	2150							24.3	24.3	-0.03
[2A]-[4A]-4A	[04A]	04A	[02A]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960							24.2	24.2	0.00
	04A	[04A]	[02A]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960							24.2	24.3	0.08
	[02A]	[04A]	05A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2525	881.5							24.3	24.2	-0.13
[2A]-[4A]-5A	[04A]	[02A]	05A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	2525	881.5							24.2	24.2	-0.03
	05A	[02A]	[04A]		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	2175	2132.5							24.6	24.5	-0.02
	[02A]	[04A]	12A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	5095	737.5							24.3	24.5	0.13
[2A]-[4A]-12A	[04A]	[02A]	12A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5095	737.5							24.2	24.3	0.06
	12A	[02A]	[04A]		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	2175	2132.5							24.4	24.5	0.09
	02A	[04A]	13A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	5230	751							24.3	24.4	0.07
2A-[4A]-13A	[04A]	02A	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751							24.2	24.3	0.11
	13A	02A	[04A]		QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	2175	2132.5							24.2	24.3	0.05
	[02A]	04A	13A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	5230	751							24.3	24.3	-0.04
[2A]-4A-13A	04A	[02A]	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751							24.2	24.3	0.12
	13A	[02A]	04A		QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	2175	2132.5							24.2	24.3	0.08
	[02A]	[04A]	13A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	5230	751							24.3	24.4	0.05
[2A]-[4A]-13A	[04A]	[02A]	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751							24.2	24.2	0.02
	13A	[02A]	[04A]		QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	2175	2132.5							24.2	24.2	-0.03
	02A	[04A]	71A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	20	68761	634.5							24.3	24.2	-0.10
2A-[4A]-71A	[04A]	02A	71A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	68761	634.5							24.2	24.1	-0.10
	71A	02A	[04A]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	2175	2132.5							24.8	24.7	-0.10
	[02A]	[04A]	71A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	20	68761	634.5							24.3	24.4	0.06
[2A]-[4A]-71A	[04A]	[02A]	71A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	68761	634.5							24.2	24.3	0.11
	71A	[02A]	[04A]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	2175	2132.5							24.8	24.7	-0.08
	[02A]	[04A]	71A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	20	68761	634.5							24.3	24.4	0.06
[2A]-5A-46A	[02A]	05A	46A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	50665	5537.5							24.3	24.4	0.04
	05A	[02A]	46A		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	50665	5537.5							24.6	24.4	-0.11
	02A	05A	[48A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	56640	3690							24.3	24.3	-0.06
2A-5A-[48A]	05A	02A	[48A]		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	56640	3690							24.6	24.5	-0.09
	[02A]	05A	48A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	56640	3690							24.3	24.2	-0.12
[2A]-5A-48A	05A	[02A]	48A		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	56640	3690							24.6	24.7	0.14
	[02A]	05A	[48A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	56640	3690							24.3	24.4	0.01
[2A]-5A-[48A]	05A	[02A]	[48A]		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	56640	3690							24.6	24.5	-0.10
	[02A]	05A	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	66786	2145							24.3	24.4	0.09
	05A	[02A]	[66A]		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	66786	2145							24.6	24.6	0.05
[2A]-12A-[66A]	[66A]	[02A]	05A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	10	2525	881.5							24.7	24.7	-0.10
	[02A]	12A	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5095	737.5	20	66786	2145							24.3	24.3	-0.01
	12A	[02A]	[66A]		QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	66786	2145									

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 [dBm]	Delta				
	PCC	SCC1	SCC2	SCC3	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	PCC			SCC1			SCC2					SCC3			
	1st	2nd	3rd	4th						BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel				Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)
[2A]-29A-[66A]	[02A]	29A	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	9715	722.5	20	66786	2145			24.3	24.4	0.01	
	[66A]	[02A]	29A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	10	9715	722.5			24.7	24.8	0.02	
[2A]-30A-[66A]	[02A]	30A	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	9820	2355	20	66786	2145			24.3	24.4	0.08	
	[66A]	[02A]	[66A]		QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	66786	2145			21.8	21.7	-0.10	
	[66A]	[02A]	30A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	10	9820	2355			24.7	24.9	0.13	
	[02A]	46A	46A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	47090	5180			24.3	24.5	0.12	
2A-46A-[48A]	02A	46A	[48A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	56640	3690			24.3	24.5	0.11	
[2A]-46A-[48A]	[02A]	46A	48A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	56640	3690			24.3	24.3	-0.06	
[2A]-46A-[48A]	[02A]	46A	[48A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	56640	3690			24.3	24.5	0.13	
2A-46A-[66A]	02A	46A	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	66786	2145			24.3	24.4	0.10	
	[66A]	02A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	50665	5537.5			24.7	24.9	0.11	
[2A]-46A-66A	[02A]	46A	66A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	66786	2145			24.3	24.3	-0.05	
	66A	[02A]	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	50665	5537.5			24.7	24.9	0.10	
[2A]-46A-[66A]	[02A]	46A	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	66786	2145			24.3	24.2	-0.10	
	[66A]	[02A]	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	50665	5537.5			24.7	24.7	-0.08	
[2A]-48A-[48A]	[02A]	48A	48A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7			24.3	24.4	0.03	
2A-[48A]-[48A]	02A	[48A]	[48A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7			24.3	24.3	-0.07	
2A-48A-[66A]	02A	48A	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	66786	2145			24.3	24.3	-0.01	
[66A]	02A	48A	48A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690			24.7	24.9	0.13	
	02A	[48A]	66A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	66786	2145			24.3	24.4	0.04	
2A-[48A]-66A	66A	02A	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690			24.7	24.9	0.13	
	[02A]	48A	66A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	66786	2145			24.3	24.3	-0.03	
[2A]-48A-66A	[02A]	48A	66A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	66786	2145			24.7	24.7	-0.01	
	66A	[02A]	48A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690			24.3	24.3	-0.07	
2A-[48A]-[66A]	02A	[48A]	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	66786	2145			24.7	24.8	0.09	
[66A]	02A	48A	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690			24.3	24.5	0.12	
	[02A]	48A	[66A]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	66786	2145			24.7	24.6	-0.12	
[2A]-[48A]-66A	[02A]	[48A]	66A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	66786	2145			24.3	24.5	0.12	
	66A	[02A]	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690			24.7	24.7	-0.02	
[2A]-[66A]-71A	[02A]	[66A]	71A		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	66786	2145	20	68761	634.5			24.3	24.2	-0.10	
	[66A]	[02A]	71A		QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	68761	634.5			24.7	24.7	-0.08	
	71A	[02A]	[66A]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145			24.8	24.8	0.02	
	[02A]	[66B]	[66B]		QPSK	20	19100	1900.0	1/99	20	1100	1980.0	15	67061	2172.5	5	66968	2163.2			24.3	24.4	0.03	
[2A]-[66B]	[66B]	[66B]	[02A]		QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	900			24.4	24.4	0.02		
	04A	[04A]	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	5230	751			24.2	24.2	0.03	
4A-[4A]-13A	[04A]	04A	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	5230	751			24.2	24.3	0.06	
	13A	[04A]	04A		QPSK	10	23230	782	1/49	10	5230	751	20	2175	2132.5	10	2350	2150			24.2	24.2	-0.02	
[4A]-[4A]-13A	[04A]	[04A]	13A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	10	5230	751			24.2	24.2	0.02	
	13A	[04A]	[04A]		QPSK	10	23230	782	1/49	10	5230	751	20	2175	2132.5	10	2350	2150			24.2	24.3	0.10	
[4A]-4A-71A	[04A]	04A	71A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	68761	634.5			24.2	24.2	-0.03	
	04A	[04A]	71A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	68761	634.5			24.2	24.3	0.09	
[4A]-[4A]-71A	[04A]	[04A]	71A		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	2175	2132.5	10	2350	2150			24.8	24.9	0.08	
	71A	[04A]	[04A]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	68761	634.5			24.2	24.3	0.11	
[4A]-46A-46A	[04A]	46A	46A		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	50665	5537.5	20	47090	5180			24.8	24.8	-0.02	
4A-[48C]	[04A]	[48C]	[48C]		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56640	3690	20	56442	3670.2			24.2	24.2	0.00	
[4A]-48C	[04A]	48C	48C		QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	56640	3690	20	56442	3670.2			24.2	24.3	0.07	
	05A	46A	[66A]		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	50665	5537.5	20	66786	2145			24.6	24.7	0.10	
5A-46A-[66A]	[66A]	05A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	10	2525	881.5	20	50665	5537.5			24.7	24.7	-0.04	
5A-[48A]-[48A]	05A	[48A]	[48A]		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	56207	3646.7			24.6	24.6	0.08	
	[66A]	05A	48A		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	66786	2145			24.6	24.6	0.02	
5A-48A-[66A]	[66A]	05A	48A		QPSK	20	132572	1770	1/0	20	67036	2170	10	2525	881.5	20	56640	3690			24.7	24.7	-0.08	
	05A	[48A]	66A		QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	66786	2145			24.6	24.7	0.13	
5A-[48A]-66A	66A	05A	[48A																					

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 [dBm]	Delta				
	PCC	SCC1	SCC2	SCC3	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	PCC			SCC1			SCC2					SCC3			
	1st	2nd	3rd	4th						BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel				Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)
25A-25A-[41A]	25A	25A	[41A]		QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	20	40620	2593				24.3	24.2	-0.06
25A-[25A]-41A	25A	[25A]	41A		QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	20	40620	2593				24.3	24.2	-0.12
	[25A]	25A	41A		QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	20	40620	2593				24.3	24.3	0.02
25A-[25A]-[41A]	25A	[25A]	[41A]		QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	20	40620	2593				24.3	24.3	0.02
	[25A]	25A	[41A]		QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	20	40620	2593				24.3	24.3	0.01
[25A]-[25A]-41A	[25A]	[25A]	41A		QPSK	20	26140	1860	1/99	20	8140	1940	20	8365	1962.5	20	40620	2593				24.3	24.4	0.12
	25A	26A	[41A]		QPSK	20	26140	1860	1/99	20	8140	1940	15	8865	876.5	20	40620	2593				24.3	24.2	-0.07
25A-26A-[41A]	26A	25A	[41A]		QPSK	15	26865	831.5	1/74	15	8865	876.5	20	8365	1962.5	20	40620	2593				24.7	24.7	0.01
	[25A]	26A	41A		QPSK	20	26140	1860	1/99	20	8140	1940	15	8865	876.5	20	40620	2593				24.3	24.3	0.04
[25A]-26A-41A	26A	[25A]	41A		QPSK	15	26865	831.5	1/74	15	8865	876.5	20	8365	1962.5	20	40620	2593				24.7	24.7	0.01
	[25A]	26A	[41A]		QPSK	20	26140	1860	1/99	20	8140	1940	15	8865	876.5	20	40620	2593				24.3	24.3	0.01
[25A]-26A-[41A]	26A	[25A]	[41A]		QPSK	15	26865	831.5	1/74	15	8865	876.5	20	8365	1962.5	20	40620	2593				24.7	24.7	0.04
	[25A]	46C	46C		QPSK	20	26140	1860	1/99	20	8140	1940	20	50665	5537.5	20	50467	5517.7				24.3	24.4	0.07
[66A]-46A-46A	[66A]	46A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	47090	5180				24.7	24.7	-0.04
66A-46A-[48A]	66A	46A	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	56640	3690				24.7	24.8	0.07
[66A]-46A-48A	[66A]	46A	48A		QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	56640	3690				24.7	24.7	-0.08
[66A]-46A-[48A]	[66A]	46A	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	56640	3690				24.7	24.7	-0.08
66A-[48A]-[48A]	66A	[48A]	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56207	3646.7				24.7	24.6	-0.13
[66A]-[48A]-48A	[66A]	[48A]	48A		QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56207	3646.7				24.7	24.6	-0.13
66A-[66A]-46A	66A	[66A]	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	50665	5537.5				24.7	24.6	-0.12
[66A]-[66A]-46A	[66A]	66A	46A		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	50665	5537.5				24.7	24.8	0.07
[66A]-[66A]-[48A]	[66A]	[66A]	48A		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	50665	5537.5				24.7	24.7	-0.03
66A-66A-[48A]	66A	66A	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690				24.7	24.6	-0.13
66A-[66A]-[48A]	[66A]	[66A]	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690				24.7	24.7	-0.06
[66A]-[66A]-[48A]	[66A]	66A	[48A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690				24.7	24.7	-0.06
71A-[48A]-[48A]	71A	[48A]	[48A]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	56640	3690	20	56207	3646.7				24.8	24.7	-0.03
71A-[48C]	71A	[48C]	[48C]		QPSK	20	133297	680.5	1/0	20	68761	634.5	20	56640	3690	20	56442	3670.2				24.8	24.7	-0.04
2A-[2A]-4A-4A	02A	[02A]	04A	04A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	2350	2150	24.3	24.3	-0.05
	[02A]	02A	04A	04A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	2350	2150	24.3	24.3	-0.04
[2A]-[2A]-4A-4A	04A	04A	[02A]	02A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	20	1100	1980	24.2	24.1	-0.11
	[02A]	[02A]	04A	04A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	2350	2150	24.3	24.4	0.04
2A-[2A]-4A-5A	04A	04A	[02A]	[02A]	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	20	1100	1980	24.2	24.3	0.08
	02A	[02A]	04A	05A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	2525	881.5	24.3	24.4	0.10
[2A]-[2A]-4A-5A	[02A]	02A	04A	05A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	2525	881.5	24.3	24.3	-0.04
	04A	[02A]	02A	05A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	1100	1980	10	2525	881.5	24.2	24.2	0.00
[2A]-[2A]-4A-5A	05A	[02A]	02A	04A	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	1100	1980	20	2175	2132.5	24.6	24.6	0.04
	[02A]	[02A]	04A	05A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	2525	881.5	24.3	24.2	-0.12
[2A]-[2A]-4A-5A	04A	[02A]	[02A]	05A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	1100	1980	10	2525	881.5	24.2	24.3	0.12
	05A	[02A]	[02A]	04A	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	1100	1980	20	2175	2132.5	24.6	24.5	-0.01
2A-[2A]-4A-12A	02A	[02A]	04A	12A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	5095	737.5	24.3	24.4	0.09
	[02A]	02A	04A	12A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	5095	737.5	24.3	24.3	-0.03
[2A]-[2A]-4A-12A	04A	[02A]	02A	12A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	1100	1980	10	5095	737.5	24.2	24.3	0.09
	12A	[02A]	02A	04A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	1100	1980	20	2175	2132.5	24.4	24.3	-0.12
[2A]-[2A]-4A-12A	[02A]	[02A]	04A	12A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	10	5095	737.5	24.3	24.3	-0.06
	04A	[02A]	[02A]	12A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	1100	1980	10	5095	737.5	24.2	24.2	-0.04
2A-[2A]-4A-71A	12A	[02A]	[02A]	04A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	1100	1980	20	2175	2132.5	24.4	24.3	-0.10
	02A	[02A]	04A	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	20	68761	634.5	24.3	24.4	0.03
[2A]-[2A]-4A-71A	[02A]	02A	04A	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	2175	2132.5	20	68761	634.5	24.3	24.5	0.12
	04A	[02A]	02A	71A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	20	1100	1980	20	68761				

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 [dBm]	Delta						
	PCC	SCC1	SCC2	SCC3	Mode	PCC			SCC1			SCC2			SCC3														
	1st	2nd	3rd	4th		BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)											
[2A]-[2A]-5B	[02A]	[02A]	05B	05B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	2600	889.0	10	2501	879.1	20	2501	879.1	24.3	24.4	0.03		
2A-[2A]-12A-30A	05B	05B	[02A]	[02A]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	1100	1980	20	1100	1980	24.7	24.6	-0.12		
	02A	[02A]	12A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5095	737.5	10	9820	2355	24.3	24.2	-0.10	9820	2355	24.3	24.4	0.06
	[02A]	02A	12A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5095	737.5	10	9820	2355	24.3	24.4	0.06	9820	2355	24.4	24.4	0.06
	12A	[02A]	02A	30A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	1100	1980	10	9820	2355	24.4	24.4	-0.05	9820	2355	24.4	24.4	-0.05
	30A	[02A]	02A	12A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	1100	1980	10	5095	737.5	21.8	21.7	-0.09	5095	737.5	21.8	21.7	-0.09
[2A]-[2A]-12A-30A	[02A]	[02A]	12A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5095	737.5	10	9820	2355	24.3	24.3	-0.03	9820	2355	24.3	24.3	-0.03
	12A	[02A]	[02A]	30A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	1100	1980	10	9820	2355	24.4	24.5	0.10	9820	2355	24.4	24.5	0.10
	30A	[02A]	[02A]	12A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	1100	1980	10	5095	737.5	21.8	21.7	-0.07	5095	737.5	21.8	21.7	-0.07
2A-[2A]-12A-66A	02A	[02A]	12A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5095	737.5	20	66786	2145	24.3	24.4	0.07	66786	2145	24.3	24.4	0.07
	[02A]	02A	12A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5095	737.5	20	66786	2145	24.3	24.3	-0.04	66786	2145	24.3	24.3	-0.04
	12A	[02A]	02A	66A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	1100	1980	20	66786	2145	24.4	24.4	0.02	66786	2145	24.4	24.4	0.02
[2A]-[2A]-12A-66A	66A	[02A]	02A	12A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	5095	737.5	24.7	24.7	-0.08	5095	737.5	24.7	24.7	-0.08
	[02A]	[02A]	12A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5095	737.5	20	66786	2145	24.3	24.3	-0.04	66786	2145	24.3	24.3	-0.04
	12A	[02A]	[02A]	66A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	1100	1980	20	66786	2145	24.4	24.5	0.12	66786	2145	24.4	24.5	0.12
2A-[2A]-12B-12B	66A	[02A]	[02A]	12A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	5095	737.5	24.7	24.7	-0.04	5095	737.5	24.7	24.7	-0.04
	02A	[02A]	12B	12B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	5	5095	737.5	5	5143	742.3	24.3	24.3	-0.06	5143	742.3	24.3	24.3	-0.06
	[02A]	02A	[02A]	02A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	1100	1980	24.5	24.6	0.07	1100	1980	24.5	24.6	0.07
[2A]-[2A]-12B-12B	[02A]	[02A]	12B	12B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	5	5095	737.5	5	5143	742.3	24.3	24.2	-0.11	5143	742.3	24.3	24.2	-0.11
	12B	12B	[02A]	[02A]	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	1100	1980	24.5	24.6	0.09	1100	1980	24.5	24.6	0.09
	[02A]	02A	13A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5230	751	20	66786	2145	24.3	24.2	-0.12	66786	2145	24.3	24.2	-0.12
2A-[2A]-13A-66A	[02A]	02A	13A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5230	751	20	66786	2145	24.3	24.3	-0.02	66786	2145	24.3	24.3	-0.02
	13A	[02A]	02A	66A	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	1100	1980	20	66786	2145	24.2	24.2	-0.02	66786	2145	24.2	24.2	-0.02
	66A	[02A]	02A	13A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	5230	751	24.7	24.8	0.08	5230	751	24.7	24.8	0.08
[2A]-[2A]-13A-66A	[02A]	[02A]	13A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5230	751	20	66786	2145	24.3	24.4	0.09	66786	2145	24.3	24.4	0.09
	13A	[02A]	[02A]	66A	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	1100	1980	20	66786	2145	24.2	24.3	0.10	66786	2145	24.2	24.3	0.10
	66A	[02A]	[02A]	13A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	5230	751	24.7	24.6	-0.13	5230	751	24.7	24.6	-0.13
2A-[2A]-14A-30A	02A	[02A]	14A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5330	763	10	9820	2355	24.3	24.3	-0.03	9820	2355	24.3	24.3	-0.03
	[02A]	02A	14A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5330	763	10	9820	2355	24.3	24.4	0.03	9820	2355	24.3	24.4	0.03
	14A	[02A]	02A	30A	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	1100	1980	10	9820	2355	24.1	24.1	0.05	9820	2355	24.1	24.1	0.05
[2A]-[2A]-14A-30A	30A	[02A]	02A	14A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	1100	1980	10	5330	763	21.8	21.8	0.01	5330	763	21.8	21.8	0.01
	[02A]	[02A]	14A	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5330	763	10	9820	2355	24.3	24.4	0.03	9820	2355	24.3	24.4	0.03
	14A	[02A]	[02A]	30A	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	1100	1980	10	9820	2355	24.1	24.1	0.02	9820	2355	24.1	24.1	0.02
2A-[2A]-14A-66A	30A	[02A]	[02A]	14A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	1100	1980	10	5330	763	21.8	21.7	-0.06	5330	763	21.8	21.7	-0.06
	02A	[02A]	14A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5330	763	20	66786	2145	24.3	24.5	0.11	66786	2145	24.3	24.5	0.11
	[02A]	02A	14A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5330	763	20	66786	2145	24.3	24.4	0.02	66786	2145	24.3	24.4	0.02
[2A]-[2A]-14A-66A	14A	[02A]	02A	66A	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	1100	1980	20	66786	2145	24.1	24.1	0.05	66786	2145	24.1	24.1	0.05
	66A	[02A]	02A	14A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	10	5330	763	24.7	24.8	0.06	5330	763	24.7	24.8	0.06
	[02A]	[02A]	14A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	10	5330	763	20	66786	2145	24.3	24.3	-0.09	66786	2145	24.3	24.3	-0.09
2A-[2A]-14A-66A	14A	[02A]	[02A]	66A	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	1100	1980	20	66786	2145	24.1	24.0	-0.10	66786	2145	24.1	24.0	-0.10
	66A	[02A]	[02A]	14A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100</												

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 [dBm]	Delta	
	PCC	SCC1	SCC2	SCC3	Mode	PCC			PCC			SCC1			SCC2			SCC3						
	1st	2nd	3rd	4th		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-66A-71A	[02A]	02A	66A	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	66786	2145	20	68761	634.5	24.3	24.4	0.07
	[02A]	[02A]	[66A]	[71A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	66786	2145	20	68761	634.5	24.3	24.5	0.12
	[66A]	[02A]	02A	71A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	20	68761	634.5	24.7	24.8	0.02
	[71A]	[02A]	02A	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	1100	1980	20	66786	2145	24.8	24.6	-0.13
[2A]-[2A]-66A-71A	[02A]	[02A]	66A	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	66786	2145	20	68761	634.5	24.3	24.3	-0.03
	[66A]	[02A]	[02A]	71A	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	1100	1980	20	68761	634.5	24.7	24.8	0.02
	[71A]	[02A]	[02A]	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	1100	1980	20	66786	2145	24.8	24.8	0.02
	[02A]	02A	[66B]	[66B]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	15	67061	2172.5	5	66968	2163.2	24.3	24.4	0.03
2A-2A-[66B]	[66B]	[66B]	02A	02A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	900	1960	20	1100	1980	24.4	24.3	-0.05
	[02A]	[02A]	66B	66B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	15	67061	2172.5	5	66968	2163.2	24.3	24.3	-0.09
2A-[2A]-66B	[02A]	02A	66B	66B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	15	67061	2172.5	5	66968	2163.2	24.3	24.4	0.04
	[66B]	[66B]	[02A]	02A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	900	1960	20	1100	1980	24.4	24.4	0.03
[2A]-[2A]-66B	[02A]	[02A]	66B	66B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	15	67061	2172.5	5	66968	2163.2	24.3	24.4	0.09
	[66B]	[66B]	[02A]	[02A]	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	900	1960	20	1100	1980	24.4	24.4	0.05
2A-2A-[66C]	02A	02A	[66C]	[66C]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	67036	2170	20	66838	2150.2	24.3	24.3	-0.07
	[66C]	[66C]	02A	02A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	20	1100	1980	24.7	24.7	-0.07
[2A]-2A-66C	[02A]	02A	66C	66C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	67036	2170	20	66838	2150.2	24.3	24.4	0.09
	[66C]	[66C]	[02A]	02A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	20	1100	1980	24.7	24.6	-0.13
[2A]-[2A]-66C	[02A]	[02A]	66C	66C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	900	1960.0	20	67036	2170	20	66838	2150.2	24.3	24.5	0.12
	[66C]	[66C]	[02A]	[02A]	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	20	1100	1980	24.7	24.6	-0.12
2C-[66A]-66A	02C	02C	[66A]	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	902	1960.2	20	66786	2145	20	67036	2170	24.3	24.3	-0.06
	[66A]	66A	02C	02C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	1098	1979.8	24.7	24.6	-0.13
	[66A]	[66A]	02C	02C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	1098	1979.8	24.7	24.7	-0.07
	[02C]	[02C]	66A	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	902	1960.2	20	66786	2145	20	67036	2170	24.3	24.2	-0.13
[2C]-66A-66A	[66A]	66A	[02C]	[02C]	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	1098	1979.8	24.7	24.8	0.07
	02C	02C	[66A]	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	902	1960.2	20	66786	2145	20	67036	2170	24.3	24.2	-0.10
2C-[66A]-[66A]	[66A]	[66A]	02C	02C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	1098	1979.8	24.7	24.8	0.05
	02A	[04A]	04A	05A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2350	2150	10	2525	881.5	24.3	24.4	0.02
2A-[4A]-4A-5A	[04A]	04A	02A	05A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	10	2525	881.5	24.2	24.2	0.01
	[04A]	[04A]	02A	05A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	10	2525	881.5	24.2	24.2	-0.02
	05A	02A	[04A]	04A	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	2175	2132.5	10	2350	2150	24.6	24.6	0.06
	02A	[04A]	[04A]	05A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2350	2150	10	2525	881.5	24.3	24.3	-0.03
2A-[4A]-[4A]-5A	[04A]	[04A]	02A	05A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	10	2525	881.5	24.2	24.2	0.04
	05A	02A	[04A]	[04A]	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	2175	2132.5	10	2350	2150	24.6	24.5	-0.03
	[04A]	[04A]	04A	12A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2350	2150	10	5095	737.5	24.3	24.2	-0.12
	[04A]	04A	02A	12A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	10	5095	737.5	24.2	24.1	-0.10
2A-[4A]-4A-12A	12A	02A	[04A]	04A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	2175	2132.5	10	2350	2150	24.4	24.1	-0.09
	02A	[04A]	[04A]	12A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2350	2150	10	5095	737.5	24.3	24.5	0.14
	[04A]	[04A]	02A	12A	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	2350	2150	20	900	1960	10	5095	737.5	24.2	24.1	-0.09
	12A	02A	[04A]	[04A]	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	2175	2132.5	10	2350	2150	24.4	24.5	0.07
2A-[4A]-5B	02A	[04A]	05B	05B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2600	889.0	10	2501	879.1	24.3	24.4	0.08
	[04A]	02A	05B	05B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	10	900	1960	10	2600	889.0	10	2501	879.1	24.2	24.2	0.01
	05B	05B	02A	[04A]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	2175	2132.5	24.7	24.6	-0.12
	[02A]	04A	05B	05B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2600	889.0	10	2501	879.1	24.3	24.2	-0.12
[2A]-4A-5B	04A	[02A]	05B	05B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	2600	889.0	10	2501	879.1	24.2	24.3	0.09
	05B	05B	[02A]	04A	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	2175	2132.5	24.7	24.8	0.09
	[02A]	[04A]	05B	05B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	10	2600	889.0	10	2501	879.1	24.3	24.3	-0.03
	[04A]	[02A]	05B	05B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	2600	889.0	10	2501	879.1	24.2	24.1	-0.09
2A-[4A]-12B	05B	05B	[02A]	[04A]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	2175	2132.5	24.7	24.7	-0.04
	02A	[04A]	12B	12B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	5	5095	737.5	5	5143	742.3	24.3	24.2	-0.10
	[04A]	02A	12B	12B	QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	5	5095	737.5	5	5143	742.3	24.2	24.1	-0.07
	12B	12B	02A	[04A]	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	2175	2132.5	24.5	24.6	0.12
[2A]-4A-12B	[02A]	04A	12B	12B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	2175	2132.5	5	5095	737.5	5	5143	742.3	24.3	24.4	0.05
	04A	[02A]	12B	12B	QPSK																			



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 [dBm]	Delta	
	PCC	SCC1	SCC2	SCC3	Mode	PCC				SCC1				SCC2				SCC3						
	1st	2nd	3rd	4th		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-[66B]	02A	05A	[66B]	[66B]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	15	67061	2172.5	5	66968	2163.2	24.3	24.2	-0.13
	05A	02A	[66B]	[66B]	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	15	67061	2172.5	5	66968	2163.2	24.6	24.5	-0.08
	[66B]	[66B]	02A	05A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	900	1960	10	2525	881.5	24.4	24.4	0.07
[2A]-5A-[66B]	[02A]	05A	66B	66B	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	15	67061	2172.5	5	66968	2163.2	24.3	24.3	-0.05
	05A	[02A]	66B	66B	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	15	67061	2172.5	5	66968	2163.2	24.6	24.5	-0.07
	66B	66B	[02A]	05A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	900	1960	10	2525	881.5	24.4	24.4	0.07
2A-5A-[66C]	02A	05A	[66C]	[66C]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	67036	2170	20	66838	2150.2	24.3	24.4	0.05
	05A	02A	[66C]	[66C]	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	67036	2170	20	66838	2150.2	24.6	24.7	0.11
	[66C]	[66C]	02A	05A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	10	2525	881.5	24.7	24.8	0.01
[2A]-5A-[66C]	[02A]	05A	66C	66C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2525	881.5	20	67036	2170	20	66838	2150.2	24.3	24.5	0.11
	05A	[02A]	66C	66C	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	900	1960	20	67036	2170	20	66838	2150.2	24.6	24.7	0.14
	66C	66C	[02A]	05A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	10	2525	881.5	24.7	24.7	-0.01
[2A]-5B-[30A]	[02A]	05B	05B	30A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2600	889.0	10	2501	879.1	10	9820	2355	24.3	24.2	-0.10
	05B	05B	[02A]	30A	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	10	9820	2355	24.7	24.7	0.01
	30A	[02A]	05B	05B	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	10	2600	889.0	10	2501	879.1	21.8	21.8	-0.04
2A-5B-[66A]	02A	05B	05B	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2600	889.0	10	2501	879.1	20	66786	2145	24.3	24.4	0.10
	05B	05B	02A	[66A]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	66786	2145	24.7	24.6	-0.10
	[66A]	02A	05B	05B	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	10	2600	889.0	10	2501	879.1	24.7	24.6	-0.12
[2A]-5B-[66A]	[02A]	05B	05B	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2600	889.0	10	2501	879.1	20	66786	2145	24.3	24.4	0.07
	05B	05B	[02A]	66A	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	66786	2145	24.7	24.8	0.09
	66A	[02A]	05B	05B	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	10	2600	889.0	10	2501	879.1	24.7	24.7	-0.10
[2A]-5B-[66A]	[02A]	05B	05B	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	2600	889.0	10	2501	879.1	20	66786	2145	24.3	24.3	-0.08
	05B	05B	[02A]	[66A]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	900	1960	20	66786	2145	24.7	24.7	0.00
	[66A]	[02A]	05B	05B	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	10	2600	889.0	10	2501	879.1	24.7	24.8	0.00
2A-12A-[66A]-66A	02A	12A	[66A]	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5095	737.5	20	66786	2145	20	67036	2170	24.3	24.3	-0.02
	12A	02A	[66A]	66A	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	66786	2145	20	67036	2170	24.4	24.4	-0.04
	[66A]	66A	02A	12A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	5095	737.5	24.7	24.6	-0.13
2A-12A-[66A]-[66A]	66A	[66A]	02A	12A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	5095	737.5	24.7	24.6	-0.13
	02A	12A	[66A]	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5095	737.5	20	66786	2145	20	67036	2170	24.3	24.4	0.01
	12A	02A	[66A]	[66A]	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	66786	2145	20	67036	2170	24.4	24.4	0.03
[2A]-12A-[66C]	[66A]	[66A]	02A	12A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	5095	737.5	24.7	24.8	0.08
	02A	12A	[66C]	[66C]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5095	737.5	20	67036	2170	20	66838	2150.2	24.3	24.4	0.01
	12A	02A	[66C]	[66C]	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	67036	2170	20	66838	2150.2	24.4	24.3	-0.06
[2A]-12A-[66C]	[66C]	[66C]	02A	12A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	10	5095	737.5	24.7	24.6	-0.12
	[02A]	12A	66C	66C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5095	737.5	20	67036	2170	20	66838	2150.2	24.3	24.3	-0.09
	12A	[02A]	66C	66C	QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960	20	67036	2170	20	66838	2150.2	24.4	24.5	0.10
2A-12B-[66A]	66C	66C	[02A]	12A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	900	1960	10	5095	737.5	24.7	24.8	0.09
	02A	12B	12B	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	5	5095	737.5	5	5143	742.3	20	66786	2145	24.3	24.3	-0.05
	12B	12B	02A	[66A]	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	66786	2145	24.5	24.5	0.00
[2A]-12B-[66A]	[66A]	02A	12B	12B	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	5	5095	737.5	5	5143	742.3	24.7	24.7	-0.03
	[02A]	12B	12B	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	5	5095	737.5	5	5143	742.3	20	66786	2145	24.3	24.2	-0.12
	12B	12B	[02A]	66A	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	66786	2145	24.5	24.4	-0.07
[2A]-12B-[66A]	66A	[02A]	12B	12B	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	5	5095	737.5	5	5143	742.3	24.7	24.7	-0.03
	[02A]	12B	12B	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	5	5095	737.5	5	5143	742.3	20	66786	2145	24.3	24.3	-0.05
	12B	12B	[02A]	[66A]	QPSK	5	23095	707.5	1/12	5	5095	737.5	5	5143	742.3	20	900	1960	20	66786	2145	24.5	24.5	0.00
[2A]-12B-[66A]	[66A]	[02A]	12B	12B	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	5	5095	737.5	5	5143	742.3	24.7	24.7	-0.10
	[02A]	13A	46C	46C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	50665	5537.5	20	50467	5517.7	24.3	24.3	-0.05
	13A	[02A]	46C	46C	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	50665	5537.5	20	50467	5517.7	24.2	24.2	-0.03
2A-13A-[48C]	02A	13A	[48C]	[48C]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	56640	3690	20	56442	3670.2	24.3	24.3	-0.01
	13A	02A	[48C]	[48C]	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	56640	3690	20	56442	3670.2	24.2	24.3	0.03
	[02A]	13A	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	56640	3690	20	56442	3670.2	24.3	24.4	0.06
[2A]-13A-[48C]	13A	[02A]	48C	48C	QPSK	10	23230	782	1/49	10	5230	751	20	900	1960	20	56640	3690	20	56442	3670.2	24.2	24.2	0.00
	02A	13A	[66A]	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5230	751	20	66786	2145	20	67036	2170	24.3	24.4	0.01
	13A	02A	[66A]	66A	QPSK	10	23230	782	1/49	10	5230	751	20	9										

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 [dBm]	Delta	
	PCC	SCC1	SCC2	SCC3	Mode	PCC			SCC1			SCC2			SCC3									
	1st	2nd	3rd	4th		BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)						
2A-14A-[66A]-66A	02A	14A	[66A]	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5330	763	20	66786	2145	20	67036	2170	24.3	24.5	0.13
	14A	02A	[66A]	66A	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	66786	2145	20	67036	2170	24.1	23.9	-0.13
	[66A]	66A	02A	14A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	5330	763	24.7	24.8	0.00
	66A	[66A]	02A	14A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	5330	763	24.7	24.7	-0.04
2A-14A-[66A]-[66A]	02A	14A	[66A]	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	5330	763	20	66786	2145	20	67036	2170	24.3	24.3	-0.01
	14A	02A	[66A]	[66A]	QPSK	10	23330	793	1/49	10	5330	763	20	900	1960	20	66786	2145	20	67036	2170	24.1	24.2	0.11
	[66A]	[66A]	02A	14A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	5330	763	24.7	24.7	-0.08
	02A	30A	[66A]	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	9820	2355	20	66786	2145	20	67036	2170	24.3	24.3	-0.02
2A-30A-[66A]-66A	02A	02A	[66A]	66A	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	21.8	21.8	-0.02
	[66A]	66A	02A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	9820	2355	24.7	24.7	-0.03
	66A	[66A]	02A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	9820	2355	24.7	24.8	0.04
	02A	30A	[66A]	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	9820	2355	20	66786	2145	20	67036	2170	24.3	24.3	-0.08
2A-30A-[66A]-[66A]	02A	02A	[66A]	[66A]	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	21.8	21.8	0.02
	[66A]	[66A]	02A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	10	9820	2355	24.7	24.9	0.11
	02A	30A	[66A]	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	10	9820	2355	20	66786	2145	20	67036	2170	24.3	24.3	-0.08
	30A	02A	[66A]	[66A]	QPSK	10	27710	2310	1/0	10	9820	2355	20	900	1960	20	66786	2145	20	67036	2170	21.8	21.8	0.02
[2A]-46A-46C	[02A]	46A	46C	46C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	53540	5825	20	53342	5805.2	24.3	24.4	0.02
	[02A]	46D	46D	46D	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.3	24.5	0.14
	[02A]	46C	46C	[48A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	56640	3690	24.3	24.5	0.13
	[02A]	46C	46C	48A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	56640	3690	24.3	24.3	-0.05
[2A]-46C-[48A]	[02A]	46C	46C	[48A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	56640	3690	24.3	24.4	0.08
	[02A]	46C	46C	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.3	24.3	-0.06
	[66A]	02A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	50665	5537.5	20	50467	5517.7	24.7	24.8	0.02
	[02A]	46C	46C	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.3	24.2	-0.12
[2A]-46C-[66A]	[02A]	[02A]	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	50665	5537.5	20	50467	5517.7	24.7	24.9	0.13
	[02A]	46C	46C	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.3	24.3	-0.01
	[66A]	[02A]	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	50665	5537.5	20	50467	5517.7	24.7	24.9	0.13
	02A	46A	[48C]	[48C]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	56640	3690	20	56442	3670.2	24.3	24.3	-0.02
[2A]-46A-[48C]	[02A]	46A	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	50665	5537.5	20	56640	3690	20	56442	3670.2	24.3	24.2	-0.11
	[02A]	48A	[48C]	[48C]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.3	24.3	0.00
	2A	[48A]	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.3	24.4	0.10
	[2A]	[48A]	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.3	24.4	0.02
[2A]-[48A]-48C	[02A]	[48A]	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.3	24.4	0.01
	[02A]	[48A]	48C	48C	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.3	24.4	0.01
	2A	48C	48C	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56442	3670.2	20	66786	2145	24.3	24.2	-0.10
	[66A]	02A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690	20	56442	3670.2	24.7	24.6	-0.11
2A-48C-[66A]	02A	48C	48C	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56442	3670.2	20	66786	2145	24.3	24.3	0.00
	66A	02A	[48C]	[48C]	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.10
	[02A]	48C	48C	66A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56442	3670.2	20	66786	2145	24.3	24.3	-0.07
	66A	[02A]	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.04
[2A]-48C-[66A]	[02A]	48C	48C	[66A]	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56442	3670.2	20	66786	2145	24.3	24.3	-0.09
	[66A]	[02A]	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	900	1960	20	56640	3690	20	56442	3670.2	24.7	24.8	0.04
	[02A]	48D	48D	48D	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	56640	3690	20	56442	3670.2	20	56244	3650.4	24.3	24.3	0.00
	02A	[66A]	66A	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	66786	2145	20	67036	2170	20	68761	634.5	24.3	24.3	0.00
2A-[66A]-66A-71A	[66A]	66A	02A	71A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	68761	634.5	24.7	24.7	-0.08
	66A	[66A]	02A	71A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	900	1960	20	68761	634.5	24.7	24.9	0.14
	71A	02A	[66A]	66A	QPSK	20	133297	680.5	1/0	20	68761	634.5	20	900	1960	20	66786	2145	20	67036	2170	24.8	24.7	-0.06
	02A	[66A]	[66A]	71A	QPSK	20	19100	1900.0	1/99	20	1100	1980.0	20	66786	2145	20	67036	2170	20	68761	634.5	24.3	24.4	0.06
2A-[66A]-[66A]-71A	[66A]	[66A]	02A	71A	QPSK	20	132572	1																



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 [dBm]	Delta	
	PCC	SCC1	SCC2	SCC3	Mode	PCC				SCC1			SCC2			SCC3								
	1st	2nd	3rd	4th		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-5A-[66A]-[66A]	05A	05A	[66A]	[66A]	QPSK	10	20600	844	1/0	10	2600	889	10	2450	874	20	66786	2145	20	67036	2170	24.7	24.7	0.01
	[66A]	[66A]	05A	05A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2600	889.0	10	2450	874.0	24.7	24.8	0.04
5A-5A-[66B]	05A	05A	[66B]	[66B]	QPSK	10	20600	844	1/0	10	2600	889	10	2450	874	15	67061	2172.5	5	66968	2163.2	24.7	24.8	0.04
	[66B]	[66B]	05A	05A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	10	2600	889.0	10	2450	874.0	24.4	24.4	0.02
5A-5A-[66C]	05A	05A	[66C]	[66C]	QPSK	10	20600	844	1/0	10	2600	889	10	2450	874	20	67036	2170	20	66838	2150.2	24.7	24.9	0.14
	[66C]	[66C]	05A	05A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	10	2600	889.0	10	2450	874.0	24.7	24.7	-0.05
5A-30A-[66A]-66A	05A	30A	[66A]	66A	QPSK	10	20525	836.5	1/49	10	2525	881.5	10	9820	2355	20	66786	2145	20	67036	2170	24.6	24.5	-0.02
	30A	05A	[66A]	66A	QPSK	10	27710	2310	1/0	10	9820	2355	10	2525	881.5	20	66786	2145	20	67036	2170	21.8	21.9	0.06
	[66A]	66A	05A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2525	881.5	10	9820	2355	24.7	24.7	-0.01
	66A	[66A]	05A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2525	881.5	10	9820	2355	24.7	24.7	-0.01
5A-30A-[66A]-[66A]	05A	30A	[66A]	[66A]	QPSK	10	20525	836.5	1/49	10	2525	881.5	10	9820	2355	20	66786	2145	20	67036	2170	24.6	24.7	0.14
	30A	05A	[66A]	[66A]	QPSK	10	27710	2310	1/0	10	9820	2355	10	2525	881.5	20	66786	2145	20	67036	2170	21.8	21.8	-0.01
	[66A]	[66A]	05A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2525	881.5	10	9820	2355	24.7	24.8	0.05
	66A	66A	05A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2525	881.5	10	9820	2355	24.7	24.8	0.05
5A-46C-[66A]	05A	46C	46C	[66A]	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.6	24.6	0.09
[66A]	05A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	10	2525	881.5	20	50665	5537.5	20	50467	5517.7	24.7	24.9	0.10	
5A-48A-[48C]	05A	48A	[48C]	[48C]	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.6	24.7	0.10
5A-[48A]-48C	05A	[48A]	48C	48C	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.6	24.6	0.03
5A-48C-[66A]	05A	48C	48C	[66A]	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	56442	3670.2	20	66786	2145	24.6	24.5	-0.04
[66A]	05A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	10	2525	881.5	20	56640	3690	20	56442	3670.2	24.7	24.6	-0.13	
5A-[48C]-66A	05A	[48C]	[48C]	66A	QPSK	10	20525	836.5	1/49	10	2525	881.5	20	56640	3690	20	56442	3670.2	20	66786	2145	24.6	24.5	-0.04
[66A]	05A	[48C]	[48C]	QPSK	20	132572	1770	1/0	20	67036	2170	10	2525	881.5	20	56640	3690	20	56442	3670.2	24.7	24.8	0.07	
5B-30A-[66A]	05B	05B	30A	[66A]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	10	9820	2355	20	66786	2145	24.7	24.7	0.00
	30A	05B	05B	[66A]	QPSK	10	27710	2310	1/0	10	9820	2355	10	2600	889.0	10	2501	879.1	20	66786	2145	21.8	21.9	0.06
	[66A]	05B	05B	30A	QPSK	20	132572	1770	1/0	20	67036	2170	10	2600	889.0	10	2501	879.1	10	9820	2355	24.7	24.9	0.13
	05B	05B	[66A]	66A	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	66786	2145	20	67036	2170	24.7	24.8	0.04
5B-[66A]-66A	[66A]	66A	05B	05B	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2600	889.0	10	2501	879.1	24.7	24.8	0.05
	66A	[66A]	05B	05B	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2600	889.0	10	2501	879.1	24.7	24.8	0.06
5B-[66A]-[66A]	05B	05B	[66A]	[66A]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	66786	2145	20	67036	2170	24.7	24.6	-0.08
[66A]	[66A]	05B	05B	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	2600	889.0	10	2501	879.1	24.7	24.8	0.03	
5B-[66B]	05B	05B	[66B]	[66B]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	15	67061	2172.5	5	66968	2163.2	24.7	24.9	0.13
[66B]	[66B]	05B	05B	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	10	2600	889.0	10	2501	879.1	24.4	24.4	0.04	
5B-[66C]	05B	05B	[66C]	[66C]	QPSK	10	20600	844	1/0	10	2600	889	10	2501	879.1	20	67036	2170	20	66838	2150.2	24.7	24.7	0.02
[66C]	[66C]	05B	05B	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	10	2600	889.0	10	2501	879.1	24.7	24.9	0.13	
12A-30A-[66A]-66A	12A	30A	[66A]	66A	QPSK	10	23095	707.5	1/0	10	5095	737.5	10	9820	2355	20	66786	2145	20	67036	2170	24.4	24.4	-0.02
	30A	12A	[66A]	66A	QPSK	10	27710	2310	1/0	10	9820	2355	10	5095	737.5	20	66786	2145	20	67036	2170	21.8	21.7	-0.08
	[66A]	66A	12A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	5095	737.5	10	9820	2355	24.7	24.7	-0.10
	66A	[66A]	12A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	5095	737.5	10	9820	2355	24.7	24.8	0.07
12A-30A-[66A]-[66A]	12A	30A	[66A]	[66A]	QPSK	10	23095	707.5	1/0	10	5095	737.5	10	9820	2355	20	66786	2145	20	67036	2170	24.4	24.3	-0.09
	30A	12A	[66A]	66A	QPSK	10	27710	2310	1/0	10	9820	2355	10	5095	737.5	20	66786	2145	20	67036	2170	21.8	21.7	-0.08
	[66A]	[66A]	12A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	5095	737.5	10	9820	2355	24.7	24.7	-0.03
	66A	66A	12A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	5095	737.5	10	9820	2355	24.7	24.7	-0.03
13A-46C-[66A]	13A	46C	46C	[66A]	QPSK	10	23230	782	1/49	10	5230	751	20	50665	5537.5	20	50467	5517.7	20	66786	2145	24.2	24.3	0.04
[66A]	13A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	10	5230	751	20	50665	5537.5	20	50467	5517.7	24.7	24.7	-0.01	
13A-48A-[48C]	13A	48A	[48C]	[48C]	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.2	24.2	-0.03
13A-[48A]-48C	13A	[48A]	48C	48C	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56442	3670.2	20	66786	2145	24.2	24.2	-0.05
13A-48C-[66A]	13A	48C	48C	[66A]	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56442	3670.2	20	66786	2145	24.2	24.2	-0.07
[66A]	13A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	10	5230	751	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.09	
13A-[48C]-66A	13A	[48C]	[48C]	66A	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	20	56442	3670.2	20	66786	2145	24.2	24.2	-0.09
13A-[48A]-[66B]	13A	48A	[66B]	[66B]	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	15	67061	2172.5	5	66968	2163.2	24.2	24.8	0.08
[66B]	[66B]	13A	48A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	10	5230	751	20	56640	3690	24.4	24.3	-0.03	
13A-[48A]-66B	13A	[48A]	66B	66B	QPSK	10	23230	782	1/49	10	5230	751	20	56640	3690	15	67061	2172.5	5	66968	2163.2	24.2	24.3	0.10
66B	66B	13A	[48A]	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	10	5230	751	20	56640	3690	24.4	24.4	0.02	
13A-48A-[66C]	13A																							

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 [dBm]	Delta	
	PCC	SCC1	SCC2	SCC3	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	PCC			SCC1			SCC2			SCC3					
	1st	2nd	3rd	4th						BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel				Freq. (MHz)
[25A]-41D	[25A]	41D	41D	41D	QPSK	20	26140	1860	1/99	20	8140	1940	20	40620	2593	20	40818	2612.8	20	41016	2632.6	24.3	24.2	-0.11
[25A]-46D	[25A]	46D	46D	46D	QPSK	20	26140	1860	1/99	20	8140	1940	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.3	24.2	-0.13
[66A]-46A-46C	[66A]	46A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	53540	5825	20	53342	5805.2	24.7	24.7	-0.01
[66A]-46D	[66A]	46D	46D	46D	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	50467	5517.7	20	50863	5557.3	24.7	24.8	0.03
66A-46C-[48A]	[66A]	46C	46C	[48A]	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	50467	5517.7	20	56640	3690	24.7	24.7	-0.06
[66A]-46C-48A	[66A]	46C	46C	48A	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	50467	5517.7	20	56640	3690	24.7	24.7	-0.09
[66A]-46C-[48A]	[66A]	46C	46C	[48A]	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	50467	5517.7	20	56640	3690	24.7	24.7	-0.04
66A-46A-[48C]	[66A]	46A	[48C]	[48C]	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.06
[66A]-46A-48C	[66A]	46A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	50665	5537.5	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.09
66A-48A-[48C]	[66A]	48A	[48C]	[48C]	QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.7	24.6	-0.13
66A-[48A]-48C	[66A]	[48A]	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.7	24.7	-0.05
[66A]-48A-48C	[66A]	48A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.7	24.8	0.06
[66A]-[48A]-48C	[66A]	[48A]	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56207	3646.7	20	56009	3626.9	24.7	24.9	0.11
[66A]-48D	[66A]	48D	48D	48D	QPSK	20	132572	1770	1/0	20	67036	2170	20	56640	3690	20	56442	3670.2	20	56244	3650.4	24.7	24.7	-0.09
66A-[66A]-29A-30A	[66A]	[66A]	29A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	9715	722.5	10	9820	2355	24.7	24.8	0.04
	[66A]	66A	29A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	9715	722.5	10	9820	2355	24.7	24.7	-0.04
	[66A]	29A	[66A]	66A	QPSK	10	27710	2310	1/0	10	9820	2355	10	9715	722.5	20	66786	2145	20	67036	2170	21.8	21.7	-0.08
	[66A]	[66A]	29A	30A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	10	9715	722.5	10	9820	2355	24.7	24.7	-0.02
[66A]-[66A]-29A-30A	[66A]	29A	[66A]	[66A]	QPSK	10	27710	2310	1/0	10	9820	2355	10	9715	722.5	20	66786	2145	20	67036	2170	21.8	21.8	0.04
66A-[66A]-46C	[66A]	[66A]	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	50665	5537.5	20	50467	5517.7	24.7	24.8	0.09
	[66A]	66A	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	50665	5537.5	20	50467	5517.7	24.7	24.9	0.10
[66A]-[66A]-46C	[66A]	[66A]	46C	46C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	50665	5537.5	20	50467	5517.7	24.7	24.8	0.05
66A-[66A]-48A-48A	[66A]	[66A]	48A	48A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56207	3646.7	24.7	24.7	-0.08
	[66A]	66A	48A	48A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56207	3646.7	24.7	24.9	0.11
[66A]-[66A]-48A-48A	[66A]	[66A]	48A	48A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56207	3646.7	24.7	24.8	0.08
66A-66A-[48C]	[66A]	[66A]	[48C]	[48C]	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.08
	[66A]	66A	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56442	3670.2	24.7	24.8	0.04
66A-[66A]-48C	[66A]	[66A]	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56442	3670.2	24.7	24.9	0.11
[66A]-[66A]-48C	[66A]	[66A]	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	56640	3690	20	56442	3670.2	24.7	24.7	-0.02
[66B]-48A-48A	[66B]	[66B]	48A	48A	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	56640	3690	20	56207	3646.7	24.4	24.5	0.13
66B-[48A]-[48A]	[66B]	66B	[48A]	[48A]	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	56640	3690	20	56207	3646.7	24.4	24.3	-0.01
66B-[48C]	[66B]	66B	[48C]	[48C]	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	56640	3690	20	56442	3670.2	24.4	24.5	0.15
[66B]-48C	[66B]	[66B]	48C	48C	QPSK	15	132597	1772.5	1/74	15	67061	2172.5	5	66968	2163.2	20	56640	3690	20	56442	3670.2	24.4	24.2	-0.12
[66C]-48A-48A	[66C]	[66C]	48A	48A	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	56640	3690	20	56207	3646.7	24.7	24.9	0.11
66C-[48A]-[48A]	[66C]	66C	[48A]	[48A]	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	56640	3690	20	56207	3646.7	24.7	24.8	0.01
66C-[48C]	[66C]	66C	[48C]	[48C]	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	56640	3690	20	56442	3670.2	24.7	24.6	-0.11
[66C]-48C	[66C]	[66C]	48C	48C	QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	56640	3690	20	56442	3670.2	24.7	24.8	0.09
41A-[41A]	[41A]	[41A]			QPSK	20	40620	2593	1/49	20	40620	2593	20	41055	2636.5							23.9	24.0	0.04
	[41A]	41A			QPSK	20	40620	2593	1/49	20	40620	2593	20	41055	2636.5							23.9	23.8	-0.12
[41A]-[41A]	[41A]	[41A]			QPSK	20	40620	2593	1/49	20	40620	2593	20	41055	2636.5							23.9	23.8	-0.11
[48A]-[48A]	[48A]	[48A]			QPSK	20	56640	3690	1/0	20	56640	3690	20	56207	3646.7							22.3	22.3	-0.04
41A-[41C]	[41A]	[41C]		[41C]	QPSK	20	40620	2593	1/49	20	40620	2593	20	41055	2636.5	20	41253	2656.3				23.9	23.9	0.03
	[41C]	[41C]	41A		QPSK	20	40620	2593	1/49	20	40620	2593	20	40818	2612.8	20	41490	2680				23.9	24.0	0.06
[41A]-41C	[41A]	41C	41C		QPSK	20	40620	2593	1/49	20	40620	2593	20	41055	2636.5	20	41253	2656.3				23.9	23.8	-0.08
	41C	41C	[41A]		QPSK	20	40620	2593	1/49	20	40620	2593	20	40818	2612.8	20	41490	2680				23.9	23.9	-0.05
[48A]-[48C]	[48A]	[48C]	[48C]		QPSK	20	56640	3690	1/0	20	56640	3690	20	56207	3646.7	20	56009	3626.9				22.3	22.3	-0.09
	[48C]	[48C]	[48A]		QPSK	20	56640	3690	1/0	20	56640	3690	20	56442	3670.2	20	55773	3603.3				22.3	22.3	-0.02
66C-[66A]	[66C]	66C	[66A]		QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	66536	2120				24.7	24.7	-0.08
	[66A]	66C	66A		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	66588	2125.2				24.7	24.7	-0.05
[66C]-66A	[66C]	[66C]	66A		QPSK	20	132572	1770	1/0	20	67036	2170	20	66838	2150.2	20	66536	2120				24.7	24.7	-0.04
	66A	[66C]	[66C]		QPSK	20	132572	1770	1/0	20	67036	2170	20	66786	2145	20	66588	2125.2				24.7	24.8	0.08
[41A]-41D	[41A]	41D	41D	41D	QPSK	20	40620	2593	1/49	20	40620	2593	20	41055	2636.5	20	41253	2656.3	20	41451	2676.1	23.9	24.0	0.08
	41D	41D	41D	[41A]	QPSK	20	40620	2593	1/49	20	40620	2593	20	40818	2612.8	20	4101							