

LTE Band 41(Receiver on)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	2498.5	39675	5MHz	1	0	19.04
				1	13	19.07
				1	24	18.96
				12	0	18.21
				12	6	18.29
				12	13	18.08
				25	0	18.22
	2545.8	40148		1	0	19.00
				1	13	18.99
				1	24	18.96
				12	0	18.13
				12	6	18.23
				12	13	18.06
				25	0	18.13
	2593	40620		1	0	19.11
				1	13	19.00
				1	24	18.97
				12	0	18.20
				12	6	18.32
				12	13	18.12
				25	0	18.16
	2640.3	41093		1	0	18.91
				1	13	18.88
				1	24	18.87
12			0	18.13		
12			6	18.07		
12			13	17.96		
25			0	18.04		
2687.5	41565	1	0	18.89		
		1	13	18.88		
		1	24	18.87		
		12	0	18.13		
		12	6	18.13		
		12	13	17.98		
		25	0	18.05		
16QAM	2498.5	39675	1	0	18.31	
			1	13	18.36	
			1	24	18.35	
			12	0	17.04	
			12	6	17.23	
			12	13	17.09	
			25	0	17.27	
	2545.8	40148	1	0	18.26	
			1	13	18.32	
			1	24	18.31	
			12	0	17.02	
			12	6	17.23	
			12	13	16.97	

	2593	40620		25	0	17.19	
				1	0	18.30	
				1	13	18.35	
				1	24	18.36	
				12	0	17.07	
				12	6	17.29	
				12	13	17.08	
	25	0		17.28			
	2640.3	41093			1	0	18.12
					1	13	18.16
					1	24	18.25
					12	0	16.90
					12	6	17.14
					12	13	16.91
					25	0	17.15
2687.5	41565		1	0	18.19		
			1	13	18.25		
			1	24	18.21		
			12	0	16.89		
			12	6	17.13		
			12	13	16.91		
			25	0	17.10		

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)	
64QAM	2498.5	39675	5MHz	1	0	17.00	
				1	13	16.97	
				1	24	16.87	
				12	0	16.17	
				12	6	16.26	
				12	13	16.06	
				25	0	16.13	
	2545.8	40148			1	0	16.90
					1	13	16.97
					1	24	16.92
					12	0	16.06
					12	6	16.15
					12	13	16.00
					25	0	16.05
	2593	40620			1	0	17.06
					1	13	16.92
					1	24	16.92
					12	0	16.16
					12	6	16.22
					12	13	16.03
					25	0	16.12
	2640.3	41093			1	0	16.82
					1	13	16.80
					1	24	16.77
12			0		16.11		
12			6		16.02		

	2687.5	41565		12	13	15.91
				25	0	15.97
				1	0	16.84
				1	13	16.78
				1	24	16.82
				12	0	16.07
				12	6	16.07
				12	13	15.90
				25	0	16.01
				1	0	14.27
					2498.5	39675
1	24	14.31				
12	0	13.99				
12	6	14.20				
12	13	14.03				
25	0	14.19				
1	0	14.20				
1	13	14.27				
1	24	14.22				
12	0	13.96				
	2545.8	40148				
				12	13	13.90
				25	0	14.10
				1	0	14.22
				1	13	14.33
				1	24	14.32
				12	0	14.02
				12	6	14.26
				12	13	14.04
				25	0	14.20
					2593	40620
1	13	14.12				
1	24	14.19				
12	0	13.84				
12	6	14.07				
12	13	13.89				
25	0	14.13				
1	0	14.14				
1	13	14.19				
1	24	14.12				
	2640.3	41093				
				12	6	14.08
				12	13	13.83
				25	0	14.07
				1	0	14.14
				1	13	14.19
				1	24	14.12
				12	0	13.85
				12	6	14.08
				12	13	13.83
					2687.5	41565

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	2501	39700	10MHz	1	0	19.23
				1	25	19.12
				1	49	19.12
				25	0	18.43

	2547	40160	25	13	18.38
			25	25	18.54
			50	0	18.53
			1	0	19.12
			1	25	19.19
			1	49	19.15
			25	0	18.19
			25	13	18.31
			25	25	18.12
			50	0	18.22
	2593	40620	1	0	19.22
			1	25	19.12
			1	49	19.18
			25	0	18.33
			25	13	18.46
			25	25	18.23
			50	0	18.25
			1	0	19.13
			1	25	19.07
			1	49	19.12
2638	41080	25	0	18.12	
		25	13	18.26	
		25	25	18.14	
		50	0	18.16	
		1	0	19.03	
		1	25	19.11	
		1	49	19.12	
		25	0	18.13	
		25	13	18.24	
		25	25	18.13	
2685	41540	50	0	18.12	
		1	0	18.57	
		1	25	18.25	
		1	49	18.55	
		25	0	17.50	
		25	13	17.48	
		25	25	17.46	
		50	0	17.45	
		1	0	18.42	
		1	25	18.15	
16QAM	2547	40160	1	49	18.20
			25	0	17.33
			25	13	17.31
			25	25	17.36
			50	0	17.36
			1	0	18.45
			1	25	18.26
			1	49	18.34
			25	0	17.37
			25	13	17.32
2593	40620	25	25	17.34	

	2638	41080		50	0	17.37
				1	0	18.29
				1	25	18.01
				1	49	18.15
				25	0	17.26
				25	13	17.20
				25	25	17.30
	2685	41540		50	0	17.26
				1	0	18.36
				1	25	18.09
				1	49	18.16
				25	0	17.29
				25	13	17.24
				25	25	17.30
			50	0	17.22	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	2501	39700	10MHz	1	0	17.13
				1	25	17.08
				1	49	17.09
				25	0	16.38
				25	13	16.30
				25	25	16.50
				50	0	16.50
	2547	40160		1	0	17.03
				1	25	17.12
				1	49	17.11
				25	0	16.12
				25	13	16.24
				25	25	16.10
				50	0	16.16
	2593	40620		1	0	17.16
				1	25	17.04
				1	49	17.13
				25	0	16.26
				25	13	16.37
				25	25	16.14
				50	0	16.20
	2638	41080		1	0	17.08
				1	25	17.01
				1	49	17.08
				25	0	16.07
				25	13	16.18
				25	25	16.06
				50	0	16.12
	2685	41540		1	0	16.94
				1	25	17.05
				1	49	17.09
				25	0	16.07
25			13	16.21		

				25	25	16.08
				50	0	16.04
256QAM	2501	39700		1	0	14.50
				1	25	14.18
				1	49	14.46
				25	0	14.45
				25	13	14.44
				25	25	14.37
				50	0	14.38
				1	0	14.34
	2547	40160		1	25	14.09
				1	49	14.14
				25	0	14.23
				25	13	14.26
				25	25	14.28
				50	0	14.31
				1	0	14.43
				1	25	14.23
	2593	40620		1	49	14.24
				25	0	14.35
				25	13	14.23
				25	25	14.32
				50	0	14.33
				1	0	14.26
				1	25	13.98
				1	49	14.08
	2638	41080		25	0	14.22
				25	13	14.13
				25	25	14.23
				50	0	14.20
1			0	14.27		
1			25	13.99		
1			49	14.09		
25			0	14.27		
2685	41540	25	13	14.17		
		25	25	14.23		
		50	0	14.20		

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	2503.5	39725	15MHz	1	0	19.09
				1	38	19.04
				1	74	19.14
				36	0	18.26
				36	18	18.36
				36	39	18.05
	2548.3	40173		75	0	18.36
				1	0	18.98
				1	38	19.00
				1	74	19.03
				36	0	18.18

			36	18	18.25			
			36	39	18.07			
			75	0	18.23			
			1	0	19.11			
			1	38	18.96			
			1	74	19.09			
			36	0	18.33			
			36	18	18.36			
			36	39	18.10			
			75	0	18.36			
			1	0	18.98			
			1	38	18.83			
			1	74	18.97			
			36	0	18.07			
			36	18	18.10			
36	39	18.02						
			75	0	18.10			
			1	0	18.94			
			1	38	18.91			
			1	74	19.00			
			36	0	18.13			
			36	18	18.17			
			36	39	17.96			
			75	0	18.19			
			1	0	18.45			
			1	38	18.29			
			1	74	18.15			
			36	0	17.31			
			36	18	17.30			
			36	39	17.28			
			75	0	17.28			
			1	0	18.39			
			1	38	18.20			
			1	74	18.05			
			36	0	17.23			
			36	18	17.28			
			36	39	17.20			
			75	0	17.17			
			1	0	18.49			
			1	38	18.32			
			1	74	18.20			
			36	0	17.33			
			36	18	17.35			
			36	39	17.29			
			75	0	17.25			
						1	0	18.32
1	38	18.21						
1	74	17.93						
36	0	17.16						
36	18	17.17						
36	39	17.20						
						36	39	17.20

	2682.5	41515		75	0	17.07
				1	0	18.37
				1	38	18.13
				1	74	17.95
				36	0	17.24
				36	18	17.19
				36	39	17.19
				75	0	17.06

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	2503.5	39750	15MHz	1	0	17.03
				1	38	17.01
				1	74	17.12
				36	0	16.22
				36	18	16.34
				36	39	16.00
				75	0	16.34
	2548.3	40185		1	0	16.94
				1	38	16.98
				1	74	16.94
				36	0	16.13
				36	18	16.15
				36	39	16.05
				75	0	16.13
	2593	40620		1	0	17.07
				1	38	16.91
				1	74	17.00
				36	0	16.27
				36	18	16.31
				36	39	16.02
				75	0	16.34
	2637.8	41055		1	0	16.88
				1	38	16.75
				1	74	16.88
				36	0	15.98
				36	18	16.00
				36	39	15.95
				75	0	16.07
	2682.5	41490		1	0	16.89
				1	38	16.83
				1	74	16.92
				36	0	16.05
				36	18	16.12
				36	39	15.90
				75	0	16.09
	256QAM	2503.5		39750	1	0
1			38		14.19	
1			74		14.12	
36			0		14.23	
36			18		14.24	

	2548.3	40185	36	39	14.22
			75	0	14.25
			1	0	14.33
			1	38	14.17
			1	74	13.95
			36	0	14.21
			36	18	14.24
			36	39	14.17
			75	0	14.14
	2593	40620	1	0	14.39
			1	38	14.26
			1	74	14.16
			36	0	14.31
			36	18	14.29
			36	39	14.19
			75	0	14.21
			1	0	14.26
			1	38	14.18
	2637.8	41055	1	74	13.88
			36	0	14.11
			36	18	14.10
36			39	14.15	
75			0	14.02	
1			0	14.33	
1			38	14.03	
1			74	13.92	
36			0	14.14	
2682.5	41490	36	18	14.15	
		36	39	14.16	
		75	0	14.03	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)		
QPSK	2506	39750	20MHz	1	0	18.88		
				1	50	19.01		
				1	99	19.02		
				50	0	18.03		
				50	25	18.01		
				50	50	17.81		
				100	0	17.90		
				1	0	18.78		
				1	50	18.90		
	2549.5	40185		1	99	19.01		
				50	0	17.94		
				50	25	17.94		
				50	50	17.83		
				100	0	17.83		
				2593	40620	1	0	18.96
						1	50	19.02
						1	99	19.20
						50	0	18.10

			50	25	18.09			
			50	50	17.81			
			100	0	17.91			
			1	0	18.70			
			1	50	18.86			
			1	99	19.00			
			50	0	17.92			
			50	25	17.87			
			50	50	17.76			
			100	0	17.68			
			1	0	18.84			
			1	50	18.93			
			1	99	18.95			
			50	0	17.86			
			50	25	17.78			
			50	50	17.67			
			100	0	17.87			
			1	0	18.08			
			1	50	17.95			
			1	99	17.99			
			50	0	16.79			
			50	25	17.02			
			50	50	16.89			
			100	0	16.94			
			1	0	17.97			
			1	50	17.77			
			1	99	17.90			
			50	0	16.79			
			50	25	16.90			
			50	50	16.79			
			100	0	16.86			
			1	0	18.04			
			1	50	17.87			
			1	99	17.94			
			50	0	16.82			
			50	25	16.96			
			50	50	16.87			
			100	0	16.90			
			1	0	17.99			
			1	50	17.67			
			1	99	17.81			
			50	0	16.71			
			50	25	16.81			
			50	50	16.73			
			100	0	16.74			
			1	0	17.71			
			1	50	17.79			
			1	99	17.63			
			50	0	16.75			
			50	25	16.78			
			50	50	16.76			
			16QAM			50	50	16.76

				100	0	16.92
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Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	2506	39750	20MHz	1	0	16.80
				1	50	16.96
				1	99	17.00
				50	0	15.99
				50	25	15.93
				50	50	15.71
				100	0	15.83
	2549.5	40185		1	0	16.76
				1	50	16.83
				1	99	16.95
				50	0	15.91
				50	25	15.87
				50	50	15.78
				100	0	15.81
	2593	40620		1	0	16.94
				1	50	16.95
				1	99	17.11
				50	0	16.03
				50	25	16.00
				50	50	15.79
				100	0	15.83
	2636.5	41055		1	0	16.67
				1	50	16.81
				1	99	16.94
50			0	15.83		
50			25	15.84		
50			50	15.67		
100			0	15.60		
2680	41490	1	0	16.77		
		1	50	16.89		
		1	99	16.90		
		50	0	15.79		
		50	25	15.75		
		50	50	15.59		
		100	0	15.83		
256QAM	2506	39750	1	0	14.05	
			1	50	13.85	
			1	99	13.94	
			50	0	13.75	
			50	25	13.97	
			50	50	13.79	
			100	0	13.91	
	2549.5	40185	1	0	13.90	
			1	50	13.68	
			1	99	13.80	
			50	0	13.72	
			50	25	13.84	

	2593	40620	50	50	13.72
			100	0	13.82
			1	0	13.99
			1	50	13.85
			1	99	13.92
			50	0	13.80
			50	25	13.89
			50	50	13.84
			100	0	13.88
			1	0	13.90
	2636.5	41055	1	50	13.61
			1	99	13.77
			50	0	13.67
			50	25	13.78
			50	50	13.67
			100	0	13.70
			1	0	13.62
			1	50	13.70
	2680	41490	1	99	13.56
			50	0	13.66
50			25	13.69	
50			50	13.66	
100			0	13.86	

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Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1710.7	131979	1.4MHz	1	0	22.35
				1	2	22.33
				1	5	22.44
				3	0	22.41
				3	2	22.40
				3	3	22.49
	6	0		21.50		
	1	0		22.34		
	1	2		22.58		
	1	5		22.35		
	3	0		22.45		
	3	2		22.49		
	3	3		22.50		
	6	0		21.56		
	1	0		22.44		
	1	2		22.57		
	1	5		22.51		
	3	0		22.52		
3	2	22.57				
3	3	22.48				
6	0	21.67				
16QAM	1710.7	131979	1	0	21.72	
			1	2	21.81	
			1	5	21.91	
			3	0	21.54	
			3	2	21.65	
			3	3	21.45	
	6	0	20.70			
	1	0	21.90			
	1	2	21.74			
	1	5	22.04			
	3	0	21.57			
	3	2	21.51			
	3	3	21.63			
	6	0	20.76			
	1	0	21.74			
	1	2	22.06			
	1	5	21.78			
	3	0	21.65			
3	2	21.74				
3	3	21.54				
6	0	20.98				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1710.7	131979	1.4MHz	1	0	20.28
				1	2	20.26
				1	5	20.41
				3	0	20.33
				3	2	20.30
				3	3	20.41
	6	0		19.45		
	1745	132322		1	0	20.32
				1	2	20.46
				1	5	20.27
				3	0	20.43
				3	2	20.41
				3	3	20.48
	6	0		19.47		
	1779.3	132665		1	0	20.39
				1	2	20.45
				1	5	20.48
				3	0	20.44
3			2	20.44		
3			3	20.42		
256QAM	1710.7	131979	6	0	19.64	
			1	0	17.67	
			1	2	17.79	
			1	5	17.84	
			3	0	17.50	
			3	2	17.63	
	3	3	17.42			
	1745	132322	6	0	17.63	
			1	0	17.81	
			1	2	17.70	
			1	5	18.02	
			3	0	17.55	
			3	2	17.43	
	3	3	17.58			
	1779.3	132665	6	0	17.69	
			1	0	17.71	
			1	2	17.96	
			1	5	17.71	
3			0	17.61		
3			2	17.64		
3	3	17.52				
6	0	17.96				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1711.5	131987	3MHz	1	0	22.69
				1	7	22.79
				1	14	22.52
				8	0	21.70
				8	4	21.76
				8	7	21.74
	15	0		21.80		
	1745	132322		1	0	22.73
				1	7	22.74
				1	14	22.62
				8	0	21.69
				8	4	21.83
				8	7	21.70
	1778.5	132657		15	0	21.72
				1	0	22.80
1			7	22.66		
1			14	22.83		
8			0	21.78		
8			4	21.87		
16QAM	1711.5	131987	8	7	21.84	
			15	0	21.93	
			1	0	21.49	
			1	7	21.92	
			1	14	22.16	
			8	0	20.58	
	1745	132322	8	4	20.91	
			8	7	20.89	
			15	0	20.79	
			1	0	22.22	
			1	7	21.73	
			1	14	21.79	
	1778.5	132657	8	0	20.73	
			8	4	21.05	
			8	7	21.05	
15			0	20.90		
1			0	22.46		
1			7	21.98		
			1	14	21.90	
			8	0	20.92	
			8	4	20.78	
			8	7	20.68	
			15	0	21.02	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1711.5	131987	3MHz	1	0	20.64
				1	7	20.76
				1	14	20.50
				8	0	19.64
				8	4	19.69
				8	7	19.66
	15	0		19.77		
	1745	132322		1	0	20.66
				1	7	20.69
				1	14	20.52
				8	0	19.67
				8	4	19.74
				8	7	19.63
	1778.5	132657		15	0	19.65
				1	0	20.76
1			7	20.59		
1			14	20.73		
8			0	19.71		
8			4	19.83		
256QAM	1711.5	131987	8	7	19.80	
			15	0	19.90	
			1	0	17.41	
			1	7	17.86	
			1	14	18.12	
			8	0	17.50	
	1745	132322	8	4	17.89	
			8	7	17.86	
			15	0	17.71	
			1	0	18.13	
			1	7	17.66	
			1	14	17.70	
	1778.5	132657	8	0	17.66	
			8	4	18.03	
			8	7	18.03	
15			0	17.80		
1			0	18.42		
1			7	17.92		
			1	14	17.80	
			8	0	17.90	
			8	4	17.68	
			8	7	17.58	
			15	0	17.93	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1712.5	131997	5MHz	1	0	22.73
				1	13	22.72
				1	24	22.63
				12	0	21.76
				12	6	21.82
				12	13	21.75
	25	0		21.79		
	1745	132322		1	0	22.71
				1	13	22.74
				1	24	22.64
				12	0	21.81
				12	6	21.68
				12	13	21.83
	25	0		21.86		
	1777.5	132647		1	0	22.80
				1	13	22.62
				1	24	22.78
				12	0	21.80
12			6	21.79		
12			13	21.89		
16QAM	1712.5	131997	1	0	21.80	
			1	13	21.69	
			1	24	21.87	
			12	0	20.87	
			12	6	20.77	
			12	13	20.80	
	25	0	20.81			
	1745	132322	1	0	22.06	
			1	13	22.24	
			1	24	21.84	
			12	0	20.74	
			12	6	20.72	
			12	13	20.78	
	25	0	20.83			
	1777.5	132647	1	0	22.08	
			1	13	22.51	
			1	24	22.23	
			12	0	20.89	
12			6	20.93		
12			13	20.79		
25	0	20.83				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1712.5	131997	5MHz	1	0	20.63
				1	13	20.63
				1	24	20.61
				12	0	19.66
				12	6	19.79
				12	13	19.68
	25	0		19.70		
	1745	132322		1	0	20.69
				1	13	20.66
				1	24	20.55
				12	0	19.72
				12	6	19.63
				12	13	19.79
	25	0		19.80		
	1777.5	132647		1	0	20.70
				1	13	20.60
				1	24	20.69
				12	0	19.74
12			6	19.75		
12			13	19.86		
25	0	19.83				
256QAM	1712.5	131997	1	0	17.74	
			1	13	17.63	
			1	24	17.79	
			12	0	17.84	
			12	6	17.71	
			12	13	17.70	
	25	0	17.75			
	1745	132322	1	0	18.04	
			1	13	18.21	
			1	24	17.79	
			12	0	17.67	
			12	6	17.67	
			12	13	17.76	
	25	0	17.77			
	1777.5	132647	1	0	18.05	
			1	13	18.43	
			1	24	18.18	
			12	0	17.83	
12			6	17.87		
12			13	17.76		
25	0	17.78				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1715	132022	10MHz	1	0	22.74
				1	25	22.48
				1	49	22.31
				25	0	21.75
				25	13	21.72
				25	25	21.75
	50	0		21.64		
	1745	132322		1	0	22.62
				1	25	22.78
				1	49	22.72
				25	0	21.67
				25	13	21.62
				25	25	21.69
	1775	132622		50	0	21.58
				1	0	22.72
				1	25	22.63
				1	49	22.61
				25	0	21.85
25			13	21.78		
16QAM	1715	132022	25	25	21.79	
			50	0	21.93	
			1	0	21.95	
			1	25	22.09	
			1	49	21.60	
			25	0	20.76	
	1745	132322	25	13	20.85	
			25	25	20.69	
			50	0	20.69	
			1	0	22.42	
			1	25	21.94	
			1	49	21.96	
	1775	132622	25	0	20.78	
			25	13	20.74	
			25	25	20.89	
			50	0	20.76	
			1	0	22.15	
			1	25	21.81	
			1	49	22.45	
			25	0	20.80	
			25	13	20.92	
			25	25	20.75	
			50	0	20.78	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1715	132022	10MHz	1	0	20.64
				1	25	20.41
				1	49	20.26
				25	0	19.65
				25	13	19.66
				25	25	19.71
	50	0		19.55		
	1745	132322		1	0	20.55
				1	25	20.76
				1	49	20.67
				25	0	19.59
				25	13	19.55
				25	25	19.63
	50	0		19.50		
	1775	132622		1	0	20.62
				1	25	20.59
				1	49	20.52
				25	0	19.82
25			13	19.75		
25			25	19.72		
256QAM	1715	132022	50	0	19.87	
			1	0	17.93	
			1	25	18.00	
			1	49	17.56	
			25	0	17.71	
			25	13	17.76	
	25	25	17.59			
	50	0	17.61			
	1745	132322	1	0	18.40	
			1	25	17.88	
			1	49	17.88	
			25	0	17.69	
			25	13	17.69	
			25	25	17.81	
	50	0	17.74			
	1775	132622	1	0	18.09	
			1	25	17.74	
			1	49	18.36	
25			0	17.76		
25			13	17.86		
25			25	17.70		
50	0	17.73				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1717.5	132047	15MHz	1	0	22.57
				1	38	22.45
				1	74	22.39
				36	0	21.60
				36	18	21.57
				36	39	21.54
	75	0		21.57		
	1745	132322		1	0	22.55
				1	38	22.52
				1	74	22.43
				36	0	21.60
				36	18	21.60
				36	39	21.60
	1772.5	132597		75	0	21.57
				1	0	22.59
				1	38	22.57
				1	74	22.58
				36	0	21.61
36			18	21.74		
16QAM	1717.5	132047	36	39	21.68	
			75	0	21.50	
			1	0	21.84	
			1	38	21.59	
			1	74	21.94	
			36	0	20.47	
	1745	132322	36	18	20.56	
			36	39	20.58	
			75	0	20.55	
			1	0	21.86	
			1	38	22.10	
			1	74	21.79	
	1772.5	132597	36	0	20.56	
			36	18	20.56	
			36	39	20.71	
			75	0	20.66	
			1	0	21.91	
			1	38	21.88	
			1	74	21.63	
			36	0	20.69	
			36	18	20.69	
			36	39	20.60	
			75	0	20.57	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1717.5	132047	15MHz	1	0	20.48
				1	38	20.37
				1	74	20.36
				36	0	19.53
				36	18	19.55
				36	39	19.45
	75	0		19.52		
	1745	132322		1	0	20.50
				1	38	20.46
				1	74	20.33
				36	0	19.56
				36	18	19.53
				36	39	19.57
	1772.5	132597		75	0	19.51
				1	0	20.54
				1	38	20.51
				1	74	20.48
				36	0	19.56
36			18	19.71		
256QAM	1717.5	132047	36	39	19.61	
			75	0	19.46	
			1	0	17.80	
			1	38	17.53	
			1	74	17.88	
			36	0	17.45	
	1745	132322	36	18	17.46	
			36	39	17.55	
			75	0	17.47	
			1	0	17.84	
			1	38	18.04	
			1	74	17.75	
	1772.5	132597	36	0	17.48	
			36	18	17.51	
			36	39	17.69	
			75	0	17.63	
			1	0	17.81	
			1	38	17.83	
			1	74	17.56	
			36	0	17.64	
			36	18	17.64	
			36	39	17.50	
			75	0	17.47	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1720	132072	20MHz	1	0	22.47
				1	50	22.80
				1	99	22.47
				50	0	21.59
				50	25	21.51
				50	50	21.51
	100	0		21.65		
	1745	132322		1	0	22.47
				1	50	22.88
				1	99	22.57
				50	0	21.71
				50	25	21.67
				50	50	21.60
	1770	132572		100	0	21.54
				1	0	22.48
				1	50	22.81
				1	99	22.43
				50	0	21.71
50			25	21.58		
16QAM	1720	132072	50	50	21.69	
			100	0	21.73	
			1	0	21.56	
			1	50	21.66	
			1	99	21.73	
			50	0	20.57	
	1745	132322	50	25	20.60	
			50	50	20.61	
			100	0	20.52	
			1	0	21.87	
			1	50	21.51	
			1	99	22.10	
	1770	132572	50	0	20.71	
			50	25	20.66	
			50	50	20.70	
			100	0	20.56	
			1	0	21.81	
			1	50	22.03	
			1	99	21.86	
			50	0	20.73	
			50	25	20.64	
			50	50	20.73	
			100	0	20.58	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1720	132072	20MHz	1	0	20.41
				1	50	20.77
				1	99	20.38
				50	0	19.51
				50	25	19.48
				50	50	19.47
	100	0		19.61		
	1745	132322		1	0	20.37
				1	50	20.80
				1	99	20.55
				50	0	19.63
				50	25	19.65
				50	50	19.58
	1770	132572		100	0	19.49
				1	0	20.44
				1	50	20.78
				1	99	20.38
				50	0	19.69
50			25	19.55		
256QAM	1720	132072	50	50	19.61	
			100	0	19.71	
			1	0	17.54	
			1	50	17.58	
			1	99	17.70	
			50	0	17.48	
	1745	132322	50	25	17.56	
			50	50	17.55	
			100	0	17.45	
			1	0	17.78	
			1	50	17.46	
			1	99	18.02	
	1770	132572	50	0	17.63	
			50	25	17.63	
			50	50	17.64	
			100	0	17.46	
			1	0	17.75	
			1	50	17.97	
			1	99	17.84	
			50	0	17.70	
			50	25	17.55	
			50	50	17.66	
			100	0	17.54	

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Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1710.7	131979	1.4MHz	1	0	20.60
				1	2	20.54
				1	5	20.69
				3	0	20.63
				3	2	20.63
				3	3	20.74
	6	0		19.71		
	1	0		20.57		
	1	2		20.78		
	1	5		20.57		
	3	0		20.69		
	3	2		20.74		
	3	3		20.73		
	6	0		19.76		
	1	0		20.69		
	1	2		20.77		
	1	5		20.72		
	3	0		20.73		
3	2	20.81				
3	3	20.69				
6	0	19.92				
16QAM	1710.7	131979	1	0	19.97	
			1	2	20.06	
			1	5	20.16	
			3	0	19.74	
			3	2	19.87	
			3	3	19.66	
	6	0	18.93			
	1	0	20.10			
	1	2	19.99			
	1	5	20.28			
	3	0	19.78			
	3	2	19.72			
	3	3	19.86			
	6	0	18.98			
	1	0	19.97			
	1	2	20.29			
	1	5	20.01			
	3	0	19.88			
3	2	19.98				
3	3	19.78				
6	0	19.23				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1710.7	131979	1.4MHz	1	0	18.58
				1	2	18.51
				1	5	18.67
				3	0	18.54
				3	2	18.56
				3	3	18.68
	6	0		17.68		
	1745	132322		1	0	18.51
				1	2	18.72
				1	5	18.54
				3	0	18.65
				3	2	18.72
				3	3	18.70
	6	0		17.66		
	1779.3	132665		1	0	18.63
				1	2	18.68
				1	5	18.66
				3	0	18.63
3			2	18.74		
3			3	18.63		
256QAM	1710.7	131979	1	0	15.87	
			1	2	15.97	
			1	5	16.08	
			3	0	15.64	
			3	2	15.77	
			3	3	15.56	
	6	0	15.89			
	1745	132322	1	0	16.07	
			1	2	15.95	
			1	5	16.24	
			3	0	15.76	
			3	2	15.68	
			3	3	15.78	
	6	0	15.95			
	1779.3	132665	1	0	15.94	
			1	2	16.22	
			1	5	15.93	
			3	0	15.82	
3			2	15.88		
3			3	15.75		
6	0	16.17				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1711.5	131987	3MHz	1	0	20.91
				1	7	21.01
				1	14	20.74
				8	0	19.90
				8	4	20.00
				8	7	19.97
	15	0		20.01		
	1745	132322		1	0	20.96
				1	7	20.99
				1	14	20.84
				8	0	19.93
				8	4	20.04
				8	7	19.93
	1778.5	132657		15	0	19.95
				1	0	21.02
1			7	20.89		
1			14	21.04		
8			0	20.03		
8			4	20.10		
16QAM	1711.5	131987	8	7	20.06	
			15	0	20.16	
			1	0	19.71	
			1	7	20.16	
			1	14	20.36	
			8	0	18.78	
	1745	132322	8	4	19.13	
			8	7	19.09	
			15	0	19.02	
			1	0	20.46	
			1	7	19.95	
			1	14	20.04	
	1778.5	132657	8	0	18.94	
			8	4	19.28	
			8	7	19.29	
15			0	19.14		
1			0	20.69		
1			7	20.20		
			1	14	20.14	
			8	0	19.15	
			8	4	19.02	
			8	7	18.88	
			15	0	19.27	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1711.5	131987	3MHz	1	0	18.81
				1	7	18.92
				1	14	18.70
				8	0	17.86
				8	4	17.97
				8	7	17.92
	15	0		17.92		
	1745	132322		1	0	18.89
				1	7	18.95
				1	14	18.78
				8	0	17.90
				8	4	17.94
				8	7	17.84
	15	0		17.87		
	1778.5	132657		1	0	18.93
1			7	18.81		
1			14	18.98		
8			0	17.97		
8			4	18.07		
8			7	18.02		
256QAM	1711.5	131987	15	0	18.06	
			1	0	15.65	
			1	7	16.11	
			1	14	16.28	
			8	0	15.68	
			8	4	16.07	
	8	7	16.05			
	1745	132322	15	0	15.97	
			1	0	16.40	
			1	7	15.91	
			1	14	15.95	
			8	0	15.90	
			8	4	16.21	
	8	7	16.26			
	1778.5	132657	15	0	16.11	
1			0	16.62		
1			7	16.15		
1			14	16.08		
8			0	16.12		
8			4	15.98		
8	7	15.78				
15	0	16.21				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1712.5	131997	5MHz	1	0	20.93
				1	13	20.92
				1	24	20.87
				12	0	20.00
				12	6	20.06
				12	13	20.00
	25	0		20.02		
	1745	132322		1	0	20.94
				1	13	20.97
				1	24	20.85
				12	0	20.02
				12	6	19.93
				12	13	20.07
	1777.5	132647		25	0	20.09
				1	0	21.00
				1	13	20.85
				1	24	21.03
				12	0	20.02
12			6	20.02		
16QAM	1712.5	131997	12	13	20.12	
			25	0	20.08	
			1	0	20.05	
			1	13	19.92	
			1	24	20.07	
			12	0	19.07	
	1745	132322	12	6	19.01	
			12	13	19.03	
			25	0	19.01	
			1	0	20.26	
			1	13	20.47	
			1	24	20.06	
	1777.5	132647	12	0	18.99	
			12	6	18.93	
			12	13	19.02	
			25	0	19.07	
			1	0	20.29	
			1	13	20.72	
			1	24	20.43	
			12	0	19.10	
			12	6	19.16	
			12	13	19.00	
			25	0	19.07	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1712.5	131997	5MHz	1	0	18.86
				1	13	18.84
				1	24	18.85
				12	0	17.94
				12	6	17.97
				12	13	17.94
	25	0		17.94		
	1745	132322		1	0	18.87
				1	13	18.89
				1	24	18.83
				12	0	17.93
				12	6	17.89
				12	13	18.03
	25	0		18.06		
	1777.5	132647		1	0	18.98
				1	13	18.79
				1	24	19.00
				12	0	17.97
12			6	17.95		
12			13	18.03		
256QAM	1712.5	131997	1	0	15.95	
			1	13	15.86	
			1	24	15.98	
			12	0	16.00	
			12	6	15.95	
			12	13	15.96	
	25	0	15.97			
	1745	132322	1	0	16.23	
			1	13	16.37	
			1	24	15.98	
			12	0	15.89	
			12	6	15.91	
			12	13	15.93	
	25	0	16.05			
	1777.5	132647	1	0	16.20	
			1	13	16.65	
			1	24	16.39	
			12	0	16.02	
12			6	16.07		
12			13	15.91		
25	0	16.04				

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1715	132022	10MHz	1	0	20.96
				1	25	20.71
				1	49	20.55
				25	0	20.00
				25	13	19.92
				25	25	19.96
	50	0		19.85		
	1745	132322		1	0	20.86
				1	25	21.03
				1	49	20.94
				25	0	19.88
				25	13	19.87
				25	25	19.93
	1775	132622		50	0	19.80
				1	0	20.96
				1	25	20.88
				1	49	20.84
				25	0	20.05
25			13	20.02		
16QAM	1715	132022	25	25	20.02	
			50	0	20.16	
			1	0	20.19	
			1	25	20.33	
			1	49	19.80	
			25	0	19.01	
	1745	132322	25	13	19.05	
			25	25	18.93	
			50	0	18.93	
			1	0	20.66	
			1	25	20.14	
			1	49	20.21	
	1775	132622	25	0	19.03	
			25	13	18.95	
			25	25	19.09	
			50	0	18.98	
			1	0	20.40	
			1	25	20.05	
			1	49	20.67	
			25	0	19.03	
			25	13	19.12	
			25	25	18.96	
			50	0	18.98	
			50	0	18.98	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1715	132022	10MHz	1	0	18.93
				1	25	18.61
				1	49	18.50
				25	0	17.91
				25	13	17.90
				25	25	17.91
				50	0	17.78
	1745	132322		1	0	18.82
				1	25	18.95
				1	49	18.88
				25	0	17.84
				25	13	17.80
				25	25	17.87
				50	0	17.77
	1775	132622		1	0	18.92
				1	25	18.79
				1	49	18.77
				25	0	17.97
				25	13	17.97
				25	25	17.92
				50	0	18.12
256QAM	1715	132022	1	0	16.14	
			1	25	16.28	
			1	49	15.70	
			25	0	15.91	
			25	13	15.99	
			25	25	15.89	
			50	0	15.90	
	1745	132322	1	0	16.59	
			1	25	16.04	
			1	49	16.16	
			25	0	15.93	
			25	13	15.88	
			25	25	16.06	
			50	0	15.89	
	1775	132622	1	0	16.33	
			1	25	15.95	
			1	49	16.60	
			25	0	16.01	
			25	13	16.08	
			25	25	15.87	
			50	0	15.89	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1717.5	132047	15MHz	1	0	20.79
				1	38	20.66
				1	74	20.61
				36	0	19.83
				36	18	19.81
				36	39	19.78
	75	0		19.79		
	1745	132322		1	0	20.76
				1	38	20.75
				1	74	20.68
				36	0	19.80
				36	18	19.81
				36	39	19.84
	1772.5	132597		75	0	19.79
				1	0	20.80
				1	38	20.78
				1	74	20.78
				36	0	19.81
36			18	19.98		
16QAM	1717.5	132047	36	39	19.89	
			75	0	19.75	
			1	0	20.05	
			1	38	19.82	
			1	74	20.19	
			36	0	18.71	
	1745	132322	36	18	18.80	
			36	39	18.82	
			75	0	18.76	
			1	0	20.09	
			1	38	20.32	
			1	74	20.00	
	1772.5	132597	36	0	18.81	
			36	18	18.76	
			36	39	18.92	
			75	0	18.87	
			1	0	20.12	
			1	38	20.11	
			1	74	19.88	
			36	0	18.90	
			36	18	18.91	
			36	39	18.83	
			75	0	18.80	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1717.5	132047	15MHz	1	0	18.71
				1	38	18.59
				1	74	18.58
				36	0	17.73
				36	18	17.74
				36	39	17.72
	75	0		17.70		
	1745	132322		1	0	18.70
				1	38	18.71
				1	74	18.62
				36	0	17.71
				36	18	17.76
				36	39	17.76
	1772.5	132597		75	0	17.69
				1	0	18.77
				1	38	18.71
				1	74	18.75
				36	0	17.74
36			18	17.89		
256QAM	1717.5	132047	36	39	17.79	
			75	0	17.68	
			1	0	15.95	
			1	38	15.77	
			1	74	16.12	
			36	0	15.61	
	1745	132322	36	18	15.76	
			36	39	15.79	
			75	0	15.70	
			1	0	16.05	
			1	38	16.23	
			1	74	15.94	
	1772.5	132597	36	0	15.77	
			36	18	15.72	
			36	39	15.82	
			75	0	15.77	
			1	0	16.10	
			1	38	16.02	
			1	74	15.81	
			36	0	15.80	
			36	18	15.88	
			36	39	15.78	
			75	0	15.74	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
QPSK	1720	132072	20MHz	1	0	20.69
				1	50	20.80
				1	99	20.71
				50	0	19.81
				50	25	19.74
				50	50	19.75
	100	0		19.85		
	1745	132322		1	0	20.67
				1	50	20.92
				1	99	20.82
				50	0	19.91
				50	25	19.92
				50	50	19.82
	1770	132572		100	0	19.78
				1	0	20.70
				1	50	20.86
				1	99	20.64
				50	0	19.96
50			25	19.80		
16QAM	1720	132072	50	50	19.91	
			100	0	19.95	
			1	0	19.76	
			1	50	19.91	
			1	99	19.96	
			50	0	18.77	
	1745	132322	50	25	18.83	
			50	50	18.85	
			100	0	18.77	
			1	0	20.12	
			1	50	19.72	
			1	99	20.33	
	1770	132572	50	0	18.94	
			50	25	18.89	
			50	50	18.95	
			100	0	18.80	
			1	0	20.03	
			1	50	20.25	
			1	99	20.08	
			50	0	18.95	
			50	25	18.88	
			50	50	18.93	
			100	0	18.82	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
64QAM	1720	132072	20MHz	1	0	18.66
				1	50	18.78
				1	99	18.61
				50	0	17.77
				50	25	17.66
				50	50	17.73
	100	0		17.80		
	1745	132322		1	0	18.64
				1	50	18.86
				1	99	18.80
				50	0	17.83
				50	25	17.83
				50	50	17.73
	1770	132572		100	0	17.71
				1	0	18.63
				1	50	18.81
				1	99	18.56
				50	0	17.90
50			25	17.75		
256QAM	1720	132072	50	50	17.85	
			100	0	17.93	
			1	0	15.72	
			1	50	15.83	
			1	99	15.93	
			50	0	15.73	
	1745	132322	50	25	15.80	
			50	50	15.82	
			100	0	15.67	
			1	0	16.08	
			1	50	15.70	
			1	99	16.23	
	1770	132572	50	0	15.90	
			50	25	15.81	
			50	50	15.88	
			100	0	15.77	
			1	0	15.98	
			1	50	16.22	
			1	99	16.01	
			50	0	15.88	
			50	25	15.86	
			50	50	15.88	
			100	0	15.77	
			100	0	15.77	

LTE UL CA and DL CA

Uplink CA:

Combination	Modulation	PCC						SCC					Full power		Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	23.15	24.00	20.85	22.00
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	23.10	24.00	20.84	22.00
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	23.13	24.00	20.86	22.00
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	23.16	24.00	20.95	22.00

Combination	Modulation	PCC						SCC					Receiver off		Receiver on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Power
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	22.07	24.00	18.15	20.00
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	22.01	24.00	18.14	20.00
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	22.06	24.00	18.10	20.00
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	22.04	24.00	18.16	20.00

Combination	Modulation	PCC						SCC					Receiver off		Receiver on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_41C	QPSK	41	20	39750	1	99	39750	41	20	39948	1	0	23.06	24.00	18.82	20.00
CA_41C	QPSK	41	20	40185	1	99	40185	41	20	40383	1	0	23.05	24.00	19.00	20.00
CA_41C	QPSK	41	20	40620	1	99	40620	41	20	40818	1	0	22.89	24.00	18.91	20.00
CA_41C	QPSK	41	20	41055	1	99	41055	41	20	40857	1	0	22.90	24.00	18.98	20.00
CA_41C	QPSK	41	20	41490	1	99	41490	41	20	41292	1	0	22.85	24.00	18.88	20.00
CA_41C	QPSK	41	20	39750	1	0	39750	41	20	39948	1	99	22.94	24.00	18.98	20.00
CA_41C	QPSK	41	20	40185	1	0	40185	41	20	40383	1	99	22.74	24.00	18.81	20.00
CA_41C	QPSK	41	20	40620	1	0	40620	41	20	40818	1	99	22.95	24.00	18.75	20.00
CA_41C	QPSK	41	20	41055	1	0	41055	41	20	40857	1	99	22.85	24.00	18.76	20.00
CA_41C	QPSK	41	20	41490	1	0	41490	41	20	41292	1	99	22.87	24.00	18.89	20.00

Note:

- 1) This device supports uplink carrier aggregation for LTE CA_7C, CA_38C, CA_41C with a maximum of two 20MHz component carriers.
- 2) According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 3) In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 4) Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.

Downlink CA:

The conducted power measurement results of downlink LTE CA Conducted Power are as below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

In applying the existing power measurement procedures for DL CA SAR test exclusion, the configurations that require power measurements are highlighted in the table as below:

1 Band / 2CC	2 Bands / 2CC	2 Bands / 3CC	2 Bands / 4CC	3 Bands / 3CC	3 Bands / 4CC
CA_2A-2A					CA_2A-2A-5A-66A
	CA_2A-4A			CA_2A-4A-13A	
	CA_2A-5A			CA_2A-4A-5A	
	CA_2A-7A			CA_2A-4A-7A	CA_2A-4A-7A-7A
	CA_2A-12A			CA_2A-4A-12A	
	CA_2A-13A			CA_2A-4A-13A	
	CA_2A-66A			CA_2A-13A-66A	
CA_12B		CA_2A-12B			
CA_2C					
CA_4A-4A		CA_2A-4A-4A			
	CA_4A-5A			CA_2A-4A-5A	
	CA_4A-7A			CA_2A-4A-7A	CA_2A-4A-7A-7A
	CA_4A-12A			CA_2A-4A-12A	
	CA_4A-13A			CA_2A-4A-13A	
	CA_5A-7A				
	CA_5A-66A	CA_5A-66A-66A			CA_2A-5A-66A-66A
CA_7A-7A		CA_2A-7A-7A			CA_2A-4A-7A-7A
	CA_7A-12A			CA_2A-7A-12A	CA_2A-2A-7A-12A
	CA_7A-66A			CA_7A-12A-66A	
CA_7C		CA_4A-7C			
	CA_12A-66A			CA_7A-12A-66A	
	CA_13A-66A			CA_2A-13A-66A	
CA_38C					
CA_41C					
CA_41A-41A					
CA_66A-66A		CA_5A-66A-66A			CA_2A-5A-66A-66A
		CA_4A-4A-7A			
		CA_4A-7A-7A			CA_2A-4A-7A-7A
				CA_4A-7A-12A	
		CA_4A-12B			
		CA_5A-7C			
		CA_7A-66A-66A			CA_2A-7A-66A-66A
		CA_7C-13A			
		CA_12A-66A-66A			
		CA_13A-66A-66A			
		CA_13A-66B			
		CA_13A-66C			
			CA_2A-2A-66A-66A		

DL LTE CA Class	Full Power																			DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
	PCC						SCC1				SCC2				SCC3							
LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up	
CA_2C	Band 2	20M	QPSK	1860	18700	1	50	Band 2	20M	1959.8	898	/	/	/	/	/	/	/	22.61	22.72	24.00	
CA_38C	Band 38	20M	QPSK	2580	37850	1	50	Band 38	20M	2599.8	38048	/	/	/	/	/	/	/	22.20	22.32	24.00	
CA_41C	Band 41	20M	QPSK	2506	39750	1	99	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	22.99	23.07	24.00	
CA_41A-41A	Band 41	20M	QPSK	2506	39750	1	99	Band 41	20M	2680	41490	/	/	/	/	/	/	/	22.97	23.07	24.00	
CA_5A-7A	Band 5	10M	QPSK	844	20600	1	25	Band 7	20M	2655	3100	/	/	/	/	/	/	/	22.58	22.65	24.00	
CA_5A-7A	Band 7	20M	QPSK	2560	21350	1	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	23.10	23.18	24.00	
CA_2A-12B	Band 2	20M	QPSK	1860	18700	1	50	Band 12	10M	741	5130	Band 12	10M	733.8	5058	/	/	/	22.60	22.72	24.00	
CA_2A-12B	Band 12	10M	QPSK	711	23130	1	25	Band 12	10M	733.8	5058	Band 2	20M	1960	900	/	/	/	22.68	22.77	24.00	
CA_2A-4A-4A	Band 2	20M	QPSK	1860	18700	1	50	Band 4	20M	2120	2050	Band 4	20M	2145	2300	/	/	/	22.63	22.72	24.00	
CA_2A-4A-4A	Band 4	20M	QPSK	1745	20300	1	50	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	22.30	22.40	24.00	
CA_4A-7C	Band 4	20M	QPSK	1745	20300	1	50	Band 7	20M	2660.2	3152	Band 7	20M	2680	3350	/	/	/	22.29	22.40	24.00	
CA_4A-7C	Band 7	20M	QPSK	2560	21350	1	50	Band 7	20M	2660.2	3152	Band 4	20M	2132.5	2175	/	/	/	23.08	23.18	24.00	
CA_4A-4A-7A	Band 4	20M	QPSK	1745	20300	1	50	Band 4	20M	2120	2050	Band 7	20M	2655	3100	/	/	/	22.31	22.40	24.00	
CA_4A-4A-7A	Band 7	20M	QPSK	2560	21350	1	50	Band 4	20M	2120	2050	Band 4	20M	2145	2300	/	/	/	23.11	23.18	24.00	
CA_4A-12B	Band 4	20M	QPSK	1745	20300	1	50	Band 12	10M	741	5130	Band 12	10M	733.8	5058	/	/	/	22.32	22.40	24.00	
CA_4A-12B	Band 12	10M	QPSK	711	23130	1	25	Band 12	10M	733.8	5058	Band 4	20M	2132.5	2175	/	/	/	22.69	22.77	24.00	
CA_5A-7C	Band 5	10M	QPSK	844	20600	1	25	Band 7	20M	2660.2	3152	Band 7	20M	2680	3350	/	/	/	22.55	22.65	24.00	
CA_5A-7C	Band 7	20M	QPSK	2560	21350	1	50	Band 7	20M	2660.2	3152	Band 5	10M	881.5	2525	/	/	/	23.06	23.18	24.00	
CA_7C-13A	Band 7	20M	QPSK	2560	21350	1	50	Band 7	20M	2660.2	3152	Band 13	10M	751	5230	/	/	/	23.13	23.18	24.00	
CA_7C-13A	Band 13	10M	QPSK	782	23230	1	25	Band 7	20M	2660.2	3152	Band 7	20M	2680	3350	/	/	/	22.87	22.99	24.00	
CA_12A-66A-66A	Band 12	10M	QPSK	711	23130	1	25	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	22.67	22.77	24.00	
CA_12A-66A-66A	Band 66	20M	QPSK	1770	132572	1	50	Band 66	20M	2120	66536	Band 12	10M	737.5	5095	/	/	/	22.70	22.81	24.00	
CA_13A-66A-66A	Band 13	10M	QPSK	782	23230	1	25	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	22.67	22.77	24.00	
CA_13A-66A-66A	Band 66	20M	QPSK	1770	132572	1	50	Band 66	20M	2120	66536	Band 13	10M	751	5230	/	/	/	22.88	22.99	24.00	
CA_13A-66B	Band 13	10M	QPSK	782	23230	1	25	Band 66	20M	2170	67036	Band 66	20M	2177.2	67108	/	/	/	22.69	22.77	24.00	
CA_13A-66B	Band 66	20M	QPSK	1770	132572	1	50	Band 66	20M	2177.2	67108	Band 13	10M	751	5230	/	/	/	22.85	22.99	24.00	
CA_13A-66C	Band 13	10M	QPSK	782	23230	1	25	Band 66	20M	2170	67036	Band 66	20M	2189.8	67234	/	/	/	22.70	22.77	24.00	
CA_13A-66C	Band 66	20M	QPSK	1770	132572	1	50	Band 66	20M	2189.8	67234	Band 13	10M	751	5230	/	/	/	22.90	22.99	24.00	
CA_2A-2A-66A-66A	Band 2	20M	QPSK	1860	18700	1	50	Band 2	20M	1980	1100	Band 66	20M	2170	67036	Band 66	20M	2120	66536	22.58	22.72	24.00
CA_2A-2A-66A-66A	Band 66	20M	QPSK	1770	132572	1	50	Band 66	20M	2120	66536	Band 2	20M	1940	700	Band 2	20M	1980	1100	22.84	22.99	24.00
CA_2A-4A-5A	Band 2	20M	QPSK	1860	18700	1	50	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	22.60	22.72	24.00	
CA_2A-4A-5A	Band 4	20M	QPSK	1745	20300	1	50	Band 5	10M	881.5	2525	Band 2	20M	1960	900	/	/	/	22.32	22.40	24.00	
CA_2A-4A-5A	Band 5	10M	QPSK	844	20600	1	25	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	22.53	22.65	24.00	
CA_2A-4A-12A	Band 2	20M	QPSK	1860	18700	1	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	22.56	22.72	24.00	
CA_2A-4A-12A	Band 4	20M	QPSK	1745	20300	1	50	Band 12	10M	737.5	5095	Band 2	20M	1960	900	/	/	/	22.28	22.40	24.00	
CA_2A-4A-12A	Band 12	10M	QPSK	711	23130	1	25	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	22.65	22.77	24.00	
CA_2A-4A-13A	Band 2	20M	QPSK	1860	18700	1	50	Band 4	20M	2132.5	2175	Band 13	10M	751	5230	/	/	/	22.55	22.72	24.00	
CA_2A-4A-13A	Band 4	20M	QPSK	1745	20300	1	50	Band 13	10M	751	5230	Band 2	20M	1960	900	/	/	/	22.29	22.40	24.00	
CA_2A-4A-13A	Band 13	10M	QPSK	782	23230	1	25	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	22.66	22.77	24.00	
CA_2A-13A-66A	Band 2	20M	QPSK	1860	18700	1	50	Band 13	10M	751	5230	Band 66	20M	2145	66786	/	/	/	22.58	22.72	24.00	
CA_2A-13A-66A	Band 13	10M	QPSK	782	23230	1	50	Band 66	20M	2145	66786	Band 2	20M	1960	900	/	/	/	22.68	22.77	24.00	
CA_2A-13A-66A	Band 66	20M	QPSK	1770	132572	1	50	Band 2	20M	1960	900	Band 13	10M	751	5230	/	/	/	22.89	22.99	24.00	
CA_7A-12A-66A	Band 7	20M	QPSK	2560	21350	1	50	Band 12	10M	737.5	5095	Band 66	20M	2145	66786	/	/	/	23.09	23.18	24.00	
CA_7A-12A-66A	Band 12	10M	QPSK	711	23130	1	25	Band 66	20M	2145	66786	Band 7	20M	2655	3100	/	/	/	22.69	22.77	24.00	
CA_7A-12A-66A	Band 66	20M	QPSK	1770	132572	1	50	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	22.83	22.99	24.00	
CA_4A-7A-12A	Band 4	20M	QPSK	1745	20300	1	50	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	22.28	22.40	24.00	
CA_4A-7A-12A	Band 7	20M	QPSK	2560	21350	1	50	Band 12	10M	737.5	5095	Band 4	20M	2132.5	2175	/	/	/	23.04	23.18	24.00	
CA_4A-7A-12A	Band 12	10M	QPSK	711	23130	1	25	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	22.64	22.77	24.00	
CA_2A-4A-7A-7A	Band 2	20M	QPSK	1860	18700	1	50	Band 4	20M	2132.5	2175	Band 7	20M	2630	2850	Band 7	20M	2680	3350	22.56	22.72	24.00
CA_2A-4A-7A-7A	Band 4	20M	QPSK	1745	20300	1	50	Band 2	20M	1960	900	Band 7	20M	2630	2850	Band 7	20M	2680	3350	22.29	22.40	24.00
CA_2A-4A-7A-7A	Band 7	20M	QPSK	2560	21350	1	50	Band 7	20M	2630	2850	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	23.06	23.18	24.00
CA_2A-2A-5A-66A	Band 2	20M	QPSK	1860	18700	1	50	Band 2	20M	1980	1100	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	22.61	22.72	24.00
CA_2A-2A-5A-66A	Band 5	10M	QPSK	844	20600	1	25	Band 66	20M	2145	66786	Band 2	20M	1940	700	Band 2	20M	1980	1100	22.55	22.65	24.00
CA_2A-2A-5A-66A	Band 66	20M	QPSK	1770	132572	1	50	Band 66	20M	2145	66786	Band 2	20M	1940	700	Band 5	10M	881.5	2525	22.89	22.99	24.00
CA_2A-5A-66A-66A	Band 2	20M	QPSK	1860	18700	1	50	Band 5	10M	881.5	2525	Band 66	20M	2170	67036	Band 66	20M	2120	66536	22.63	22.72	24.00
CA_2A-5A-66A-66A	Band 5	10M	QPSK	844	20600	1	25	Band 2	20M	1960	900	Band 66	20M	2170	67036	Band 66	20M	2120	66536	22.53	22.65	24.00
CA_2A-5A-66A-66A	Band 66	20M	QPSK	1770	132572	1	50	Band 66	20M	2120	66536	Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.91	22.99	24.00
CA_2A-2A-7A-12A	Band 2	20M	QPSK	1860	18700	1	50	Band 2	20M	1980	1100	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	22.64	22.72	24.00
CA_2A-2A-7A-12A	Band 7	20M	QPSK	2560	21350	1	50	Band 12	10M	737.5	5095	Band 2	20M	1940	700	Band 2	20M	1980	1100	23.07	23.18	24.00
CA_2A-2A-7A-12A	Band 12	10M	QPSK	711	23130	1	25	Band 7	20M	2655	3100	Band 2	20M	1940	700	Band 2	20M	1980	1100	22.66	22.77	24.00
CA_2A-7A-66A-66A	Band 2	20M	QPSK	1860	18700	1	50	Band 7	20M	2655	3100	Band 66	20M	2170	67036							

Hotspot on																						
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_5A-7A	Band 7	20M	QPSK	2560	21350	1	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	20.85	20.98	22.00
CA_4A-7C	Band 7	20M	QPSK	2560	21350	1	50	Band 7	20M	2660.2	3152	Band 4	20M	2132.5	2175	/	/	/	/	20.87	20.98	22.00
CA_4A-4A-7A	Band 7	20M	QPSK	2560	21350	1	50	Band 4	20M	2120	2050	Band 4	20M	2145	2300	/	/	/	/	20.86	20.98	22.00
CA_5A-7C	Band 7	20M	QPSK	2560	21350	1	50	Band 7	20M	2660.2	3152	Band 5	10M	881.5	2525	/	/	/	/	20.81	20.98	22.00
CA_7C-13A	Band 7	20M	QPSK	2560	21350	1	50	Band 7	20M	2660.2	3152	Band 13	10M	751	5230	/	/	/	/	20.84	20.98	22.00
CA_7A-12A-66A	Band 7	20M	QPSK	2560	21350	1	50	Band 12	10M	737.5	5095	Band 66	20M	2145	66786	/	/	/	/	20.90	20.98	22.00
CA_4A-7A-12A	Band 7	20M	QPSK	2560	21350	1	50	Band 12	10M	737.5	5095	Band 4	20M	2132.5	2175	/	/	/	/	20.84	20.98	22.00
CA_2A-4A-7A-7A	Band 7	20M	QPSK	2560	21350	1	50	Band 7	20M	2630	2850	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	20.89	20.98	22.00
CA_2A-2A-7A-12A	Band 7	20M	QPSK	2560	21350	1	50	Band 12	10M	737.5	5095	Band 2	20M	1940	700	Band 2	20M	1980	1100	20.88	20.98	22.00
CA_2A-7A-66A-66A	Band 7	20M	QPSK	2560	21350	1	50	Band 2	20M	1960	900	Band 66	20M	2170	67036	Band 66	20M	2120	66536	20.86	20.98	22.00
Receiver on																						
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_38C	Band 38	20M	QPSK	2580	37850	1	99	Band 38	20M	2599.8	38048	/	/	/	/	/	/	/	/	18.21	18.33	20.00
CA_41C	Band 41	20M	QPSK	2506	39750	1	99	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	18.91	19.02	20.00
CA_41A-41A	Band 41	20M	QPSK	2506	39750	1	99	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	18.90	19.02	20.00

Note:

The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

6.5 5G NR Measurement result

1. For this report, NR Band n2/n5/n7/n38/n41/n66/n71/n78 support SN and NSA mode. NSA mode operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		N78	N38	N41	N2	N5	N7	N66
		Ant2	Ant1	Ant1	Ant1	Ant4	Ant1	Ant1
LTE B7	Ant4	v			v	v		v
LTE B2	Ant5	v		v			v	v
LTE B5	Ant4	v	v		v		v	v
LTE B12	Ant4	v	v	v	v		v	
LTE B13	Ant4	v			v			v
LTE B66	Ant5	v		v	v	v		
LTE B4	Ant5			v				

2. The general information supported by the NR band is as following table:

Band		n2	n5	n7	n38	n41	n66	n78
NR mode	SA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	NSA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
	256QAM	Yes	Yes	Yes	Yes	Yes	Yes	
Duty Cycle		100%	100%	100%	25%	25%	100%	25%

Band	SCS	Bandwidth												
		5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
n2	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n66	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n78	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
- a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not $\frac{1}{2}$ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.

4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be \leq the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.

N2(Receiver off)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	1860	372000	20MHz	1	1	22.86
				1	53	22.79
				1	104	22.80
				50	0	22.16
				50	28	22.81
				50	56	22.00
	100	0		22.09		
	1880	376000		1	1	22.89
				1	53	22.81
				1	104	22.85
				50	0	22.19
				50	28	22.86
				50	56	22.05
	100	0		22.09		
	1900	380000		1	1	22.89
				1	53	22.76
				1	104	22.85
				50	0	22.16
50			28	22.81		
50			56	22.00		
100	0	22.04				
DFT-s-OFDM QPSK	1860	372000	1	1	22.90	
			1	53	22.80	
			1	104	22.81	
			50	0	22.03	
			50	28	22.90	
			50	56	22.02	
	100	0	22.02			
	1880	376000	1	1	22.91	
			1	53	22.85	
			1	104	22.84	
			50	0	22.05	
			50	28	22.92	
			50	56	22.06	
	100	0	22.05			
	1900	380000	1	1	22.89	
			1	53	22.83	
			1	104	22.80	
			50	0	22.00	
50			28	22.89		
50			56	22.05		
100	0	22.01				
DFT-s-OFDM 16QAM	1860	372000	1	1	22.17	
	1880	376000	1	1	22.20	
	1900	380000	1	1	22.16	
DFT-s-OFDM 64QAM	1860	372000	1	1	20.54	
	1880	376000	1	1	20.54	
	1900	380000	1	1	20.52	
DFT-s-OFDM 256QAM	1860	372000	1	1	18.62	
	1880	376000	1	1	18.63	
	1900	380000	1	1	18.62	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	1860	372000	20MHz	1	1	21.01
	1880	376000		1	1	21.05
	1900	380000		1	1	20.90
DFT-s-OFDM QPSK	1857.5	371500	15MHz	1	1	22.80
	1880	376000		1	1	22.85
	1902.5	380500		1	1	22.87
DFT-s-OFDM QPSK	1855	371000	10MHz	1	1	22.78
	1880	376000		1	1	22.84
	1905	381000		1	1	22.88
DFT-s-OFDM QPSK	1852.5	370500	5MHz	1	1	22.81
	1880	376000		1	1	22.90
	1907.5	381500		1	1	22.87

N2(Receiver on)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	1860	372000	20MHz	1	1	16.94
				1	53	16.86
				1	104	16.87
				50	0	17.20
				50	28	16.89
				50	56	17.06
	100	0		17.17		
	1880	376000		1	1	16.95
				1	53	16.83
				1	104	16.90
				50	0	17.26
				50	28	16.89
				50	56	17.10
	1900	380000		100	0	17.12
				1	1	16.94
				1	53	16.79
				1	104	16.89
				50	0	17.24
50			28	16.84		
DFT-s-OFDM QPSK	1860	372000	50	56	17.02	
			100	0	17.09	
			1	1	16.98	
			1	53	16.88	
			1	104	16.86	
			50	0	17.08	
	1880	376000	50	28	16.97	
			50	56	17.06	
			100	0	17.04	
			1	1	16.99	
			1	53	16.91	
			1	104	16.89	
50	0	17.10				

	1900	380000	50	28	17.11
			50	56	17.10
			100	0	17.09
			1	1	16.97
			1	53	16.85
			1	104	16.86
			50	0	17.06
			50	28	16.91
			50	56	17.08
			100	0	17.05
DFT-s-OFDM 16QAM	1860	372000	1	1	17.21
	1880	376000	1	1	17.24
	1900	380000	1	1	17.20
DFT-s-OFDM 64QAM	1860	372000	1	1	17.10
	1880	376000	1	1	17.10
	1900	380000	1	1	17.10
DFT-s-OFDM 256QAM	1860	372000	1	1	17.15
	1880	376000	1	1	17.20
	1900	380000	1	1	17.20

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	1860	372000	20MHz	1	1	16.56
	1880	376000		1	1	16.60
	1900	380000		1	1	16.48
DFT-s-OFDM QPSK	1857.5	371500	15MHz	1	1	16.85
	1880	376000		1	1	16.88
	1902.5	380500		1	1	16.91
DFT-s-OFDM QPSK	1855	371000	10MHz	1	1	16.85
	1880	376000		1	1	16.85
	1905	381000		1	1	16.92
DFT-s-OFDM QPSK	1852.5	370500	5MHz	1	1	16.88
	1880	376000		1	1	16.92
	1907.5	381500		1	1	16.89

N2(NSA Hotspot on & Sensor on)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	1860	372000	20MHz	1	1	21.94
				1	53	21.84
				1	104	21.88
				50	0	22.08
				50	28	21.84
				50	56	21.95
	100	0		22.01		
	1	1		21.98		
	1	53		21.89		
	1	104		21.94		
	50	0		22.14		
	50	28		21.93		

	1900	380000	50	56	21.96
			100	0	22.01
			1	1	21.91
			1	53	21.78
			1	104	21.91
			50	0	22.13
			50	28	21.89
			50	56	21.93
			100	0	21.98
			1	1	21.98
DFT-s-OFDM QPSK	1860	372000	1	53	21.82
			1	104	21.86
			50	0	21.95
			50	28	21.97
			50	56	21.94
	100	0	21.99		
	1	1	21.99		
	1	53	21.94		
	1	104	21.93		
	50	0	22.00		
	50	28	21.98		
	50	56	21.98		
	100	0	21.96		
	1	1	21.96		
	1	53	21.91		
1	104	21.85			
50	0	21.91			
50	28	21.97			
50	56	21.98			
100	0	21.93			
DFT-s-OFDM 16QAM	1860	372000	1	1	22.13
	1880	376000	1	1	22.16
	1900	380000	1	1	22.13
DFT-s-OFDM 64QAM	1860	372000	1	1	20.52
	1880	376000	1	1	20.46
	1900	380000	1	1	20.50
DFT-s-OFDM 256QAM	1860	372000	1	1	18.59
	1880	376000	1	1	18.56
	1900	380000	1	1	18.60

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	1860	372000	20MHz	1	1	20.99
	1880	376000		1	1	21.00
	1900	380000		1	1	20.82
DFT-s-OFDM QPSK	1857.5	371500	15MHz	1	1	21.84
	1880	376000		1	1	21.87
	1902.5	380500		1	1	21.89
DFT-s-OFDM QPSK	1855	371000	10MHz	1	1	21.81
	1880	376000		1	1	21.93
	1905	381000		1	1	21.95
DFT-s-OFDM QPSK	1852.5	370500	5MHz	1	1	21.89
	1880	376000		1	1	21.94
	1907.5	381500		1	1	21.95

N5

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	834	166800	20MHz	1	1	22.08
				1	53	22.42
				1	104	22.04
				50	0	21.78
				50	28	22.35
				50	56	21.83
	100	0		21.85		
	836.5	167300		1	1	22.12
				1	53	22.44
				1	104	22.08
				50	0	21.78
				50	28	22.38
				50	56	21.84
	100	0		21.88		
	839	167800		1	1	22.07
				1	53	22.42
				1	104	22.03
				50	0	21.76
50			28	22.38		
50			56	21.84		
DFT-s-OFDM QPSK	834	166800	1	1	22.13	
			1	53	22.46	
			1	104	22.10	
			50	0	21.73	
			50	28	22.38	
			50	56	21.64	
	100	0	21.65			
	836.5	167300	1	1	22.16	
			1	53	22.49	
			1	104	22.15	
			50	0	21.74	
			50	28	22.40	
			50	56	21.65	
	100	0	21.66			
	839	167800	1	1	22.15	
			1	53	22.46	
			1	104	22.11	
			50	0	21.74	
50			28	22.37		
50			56	21.65		
100	0	21.66				
DFT-s-OFDM 16QAM	834	166800	1	1	21.18	
	836.5	167300	1	1	21.23	
	839	167800	1	1	21.22	
DFT-s-OFDM 64QAM	834	166800	1	1	20.92	
	836.5	167300	1	1	20.96	
	839	167800	1	1	20.95	
DFT-s-OFDM 256QAM	834	166800	1	1	18.91	
	836.5	167300	1	1	18.95	
	839	167800	1	1	18.94	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	834	166800	20MHz	1	1	21.45
	836.5	167300		1	1	21.50
	839	167800		1	1	21.40
DFT-s-OFDM QPSK	831.5	166300	15MHz	1	1	22.44
	836.5	167300		1	1	22.45
	841.5	168300		1	1	22.36
DFT-s-OFDM QPSK	829	165800	10MHz	1	1	22.35
	836.5	167300		1	1	22.41
	844	168800		1	1	22.34
DFT-s-OFDM QPSK	826.5	165300	5MHz	1	1	22.35
	836.5	167300		1	1	22.43
	846.5	169300		1	1	22.34

N7(Full power)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	2510	502000	20MHz	1	1	22.81
				1	53	22.71
				1	104	22.61
				50	0	21.72
				50	28	22.53
				50	56	21.60
	100	0		21.55		
	2535	507000		1	1	22.82
				1	53	22.75
				1	104	22.65
				50	0	21.76
				50	28	22.56
				50	56	21.64
	100	0		21.56		
	2560	512000		1	1	22.80
				1	53	22.70
				1	104	22.64
				50	0	21.71
50			28	22.51		
50			56	21.61		
100	0	21.51				
DFT-s-OFDM QPSK	2510	502000	1	1	22.82	
			1	53	22.72	
			1	104	22.51	
			50	0	21.71	
			50	28	22.51	
			50	56	21.59	
	100	0	21.52			
	2535	507000	1	1	22.83	
			1	53	22.75	
			1	104	22.56	
			50	0	21.74	

	2560	512000	50	28	22.55
			50	56	21.60
			100	0	21.56
			1	1	22.82
			1	53	22.73
			1	104	22.53
			50	0	21.72
			50	28	22.55
			50	56	21.57
			100	0	21.56
DFT-s-OFDM 16QAM	2510	502000	1	1	22.12
	2535	507000	1	1	22.23
	2560	512000	1	1	22.20
DFT-s-OFDM 64QAM	2510	502000	1	1	20.89
	2535	507000	1	1	21.00
	2560	512000	1	1	20.92
DFT-s-OFDM 256QAM	2510	502000	1	1	18.83
	2535	507000	1	1	18.95
	2560	512000	1	1	18.96

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	2510	502000	20MHz	1	1	21.98
	2535	507000		1	1	21.90
	2560	512000		1	1	21.99
DFT-s-OFDM QPSK	2507.5	501500	15MHz	1	1	22.65
	2535	507000		1	1	22.65
	2562.5	512500		1	1	22.41
DFT-s-OFDM QPSK	2505	501000	10MHz	1	1	22.45
	2535	507000		1	1	22.41
	2565	513000		1	1	22.60
DFT-s-OFDM QPSK	2502.5	500500	5MHz	1	1	22.60
	2535	507000		1	1	22.66
	2567.5	513500		1	1	22.74

N7(Receiver on)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	2510	502000	20MHz	1	1	18.27
				1	53	18.19
				1	104	18.03
				50	0	18.24
				50	28	18.01
				50	56	18.16
	100	0		18.08		
	2535	507000		1	1	18.26
				1	53	18.19
				1	104	18.07
				50	0	18.31
				50	28	17.98
				50	56	18.21
				100	0	18.13
				2560	512000	1

			1	53	18.14
			1	104	18.07
			50	0	18.29
			50	28	17.93
			50	56	18.17
			100	0	18.09
DFT-s-OFDM QPSK	2510	502000	1	1	18.29
			1	53	18.17
			1	104	17.98
			50	0	18.25
			50	28	17.95
			50	56	18.12
	100	0	18.04		
	1	1	18.30		
	1	53	18.20		
	1	104	17.99		
	50	0	18.27		
	50	28	18.01		
	50	56	18.15		
	100	0	18.11		
	1	1	18.29		
	1	53	18.17		
	1	104	17.96		
	50	0	18.27		
50	28	18.03			
50	56	18.15			
100	0	18.14			
DFT-s-OFDM 16QAM	2510	502000	1	1	18.69
	2535	507000	1	1	18.77
	2560	512000	1	1	18.72
DFT-s-OFDM 64QAM	2510	502000	1	1	18.42
	2535	507000	1	1	18.43
	2560	512000	1	1	18.51
DFT-s-OFDM 256QAM	2510	502000	1	1	18.79
	2535	507000	1	1	18.75
	2560	512000	1	1	18.85

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	2510	502000	20MHz	1	1	18.51
	2535	507000		1	1	18.47
	2560	512000		1	1	18.54
DFT-s-OFDM QPSK	2507.5	501500	15MHz	1	1	18.12
	2535	507000		1	1	18.08
	2562.5	512500		1	1	17.87
DFT-s-OFDM QPSK	2505	501000	10MHz	1	1	17.91
	2535	507000		1	1	17.86
	2565	513000		1	1	18.05
DFT-s-OFDM QPSK	2502.5	500500	5MHz	1	1	18.08
	2535	507000		1	1	18.12
	2567.5	513500		1	1	18.21

N7(Hotspot on)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	2510	502000	20MHz	1	1	20.89
				1	53	20.74
				1	104	20.63
				50	0	20.75
				50	28	20.55
				50	56	20.67
	100	0		20.62		
	1	1		20.84		
	1	53		20.83		
	1	104		20.73		
	50	0		20.79		
	50	28		20.62		
	50	56		20.69		
	100	0		20.64		
	1	1		20.87		
	1	53		20.75		
	1	104		20.66		
	50	0		20.78		
50	28	20.59				
50	56	20.65				
100	0	20.53				
DFT-s-OFDM QPSK	2510	502000	1	1	20.87	
			1	53	20.77	
			1	104	20.59	
			50	0	20.78	
			50	28	20.58	
			50	56	20.64	
	100	0	20.58			
	1	1	20.90			
	1	53	20.82			
	1	104	20.63			
	50	0	20.80			
	50	28	20.57			
	50	56	20.65			
	100	0	20.62			
	1	1	20.88			
	1	53	20.79			
	1	104	20.57			
	50	0	20.79			
50	28	20.57				
50	56	20.61				
100	0	20.59				
DFT-s-OFDM 16QAM	2510	502000	1	1	20.17	
	2535	507000	1	1	20.30	
	2560	512000	1	1	20.23	
DFT-s-OFDM 64QAM	2510	502000	1	1	20.88	
	2535	507000	1	1	20.97	
	2560	512000	1	1	20.86	
DFT-s-OFDM 256QAM	2510	502000	1	1	18.79	
	2535	507000	1	1	18.91	
	2560	512000	1	1	18.87	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	2510	502000	20MHz	1	1	20.04
	2535	507000		1	1	20.05
	2560	512000		1	1	20.07
DFT-s-OFDM QPSK	2507.5	501500	15MHz	1	1	20.71
	2535	507000		1	1	20.70
	2562.5	512500		1	1	20.47
DFT-s-OFDM QPSK	2505	501000	10MHz	1	1	20.53
	2535	507000		1	1	20.62
	2565	513000		1	1	20.73
DFT-s-OFDM QPSK	2502.5	500500	5MHz	1	1	20.64
	2535	507000		1	1	20.72
	2567.5	513500		1	1	20.82

N38

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	2590	518000	40MHz	1	1	22.63
				1	108	22.71
				1	214	22.52
				108	0	21.62
				108	54	22.51
				108	108	21.56
	2595	519000		216	0	21.54
				1	1	22.63
				1	108	22.74
				1	214	22.56
				108	0	21.65
				108	54	22.56
	2600	520000		108	108	21.56
				216	0	21.55
				1	1	22.68
				1	108	22.75
				1	214	22.57
				108	0	21.68
DFT-s-OFDM QPSK	2590	518000	108	54	22.61	
			108	108	21.58	
			216	0	21.60	
			1	1	22.56	
	2595	519000	1	108	22.74	
			1	214	22.56	
			108	0	21.52	
			108	54	22.41	
2590	518000	108	108	21.54		
		216	0	21.53		
2595	519000	1	1	22.59		

			1	108	22.79
			1	214	22.61
			108	0	21.55
			108	54	22.44
			108	108	21.56
			216	0	21.55
			1	1	22.59
	2600	520000	1	108	22.77
			1	214	22.62
			108	0	21.60
			108	54	22.43
			108	108	21.60
			216	0	21.59
			1	1	22.34
DFT-s-OFDM 16QAM	2590	518000	1	1	22.41
	2595	519000	1	1	22.36
	2600	520000	1	1	20.88
DFT-s-OFDM 64QAM	2590	518000	1	1	20.91
	2595	519000	1	1	20.93
	2600	520000	1	1	18.84
DFT-s-OFDM 256QAM	2590	518000	1	1	18.89
	2595	519000	1	1	18.93
	2600	520000	1	1	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	2590	518000	40MHz	1	1	21.75
	2595	519000		1	1	21.89
	2600	520000		1	1	21.90
DFT-s-OFDM QPSK	2585	517000	30MHz	1	1	22.60
	2595	519000		1	1	22.65
	2605	521000		1	1	22.70
DFT-s-OFDM QPSK	2580	516000	20MHz	1	1	22.51
	2595	519000		1	1	22.56
	2610	522000		1	1	22.65

N41

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	2546.01	509202	100MHz	1	1	22.54
				1	137	22.40
				1	271	22.45
				135	0	21.58
				135	69	22.44
				135	138	21.46
				270	0	21.43
	2569.5	513900		1	1	22.45
				1	137	22.40

			1	271	22.45	
			135	0	21.51	
			135	69	22.36	
			135	138	21.43	
			270	0	21.35	
			1	1	22.45	
	2592.99	518598		1	137	22.35
				1	271	22.40
				135	0	21.49
				135	69	22.35
				135	138	21.39
				270	0	21.35
	2616.51	523302		1	1	22.48
				1	137	22.39
				1	271	22.41
				135	0	21.50
				135	69	22.35
				135	138	21.42
	2640	528000		270	0	21.40
				1	1	22.55
				1	137	22.45
1				271	22.47	
135				0	21.58	
135				69	22.44	
DFT-s-OFDM QPSK	2546.01	509202	135	138	21.45	
			270	0	21.41	
			1	1	22.51	
			1	137	22.45	
			1	271	22.48	
			135	0	21.59	
	2569.5	513900		135	69	22.42
				135	138	21.46
				270	0	21.64
				1	1	22.49
				1	137	22.37
				1	271	22.45
	2592.99	518598		135	0	21.52
				135	69	22.36
				135	138	21.45
				270	0	21.55
				1	1	22.55
				1	137	22.36
	2616.51	523302		1	271	22.41
				135	0	21.51
				135	69	22.45
135				138	21.41	
270				0	21.55	
1				1	22.49	
			1	137	22.38	

	2640	528000	1	271	22.41
			135	0	21.54
			135	69	22.37
			135	138	21.45
			270	0	21.59
			1	1	22.54
			1	137	22.45
			1	271	22.51
			135	0	21.56
			135	69	22.44
			135	138	21.48
			270	0	21.65
			1	271	22.45
			1	271	22.35
DFT-s-OFDM 16QAM	2546.01	509202	1	271	22.41
	2569.5	513900	1	271	22.36
	2592.99	518598	1	271	22.36
	2616.51	523302	1	271	22.12
	2640	528000	1	271	22.12
DFT-s-OFDM 64QAM	2546.01	509202	1	271	20.82
	2569.5	513900	1	271	20.85
	2592.99	518598	1	271	20.95
	2616.51	523302	1	271	20.97
	2640	528000	1	271	20.82
DFT-s-OFDM 256QAM	2546.01	509202	1	271	18.89
	2569.5	513900	1	271	18.55
	2592.99	518598	1	271	18.65
	2616.51	523302	1	271	18.70
	2640	528000	1	271	18.65

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
CP-OFDM QPSK	2546.01	509202	100MHz	1	271	21.85
	2569.5	513900		1	271	21.95
	2592.99	518598		1	271	21.84
	2616.51	523302		1	271	21.81
	2640	528000		1	271	21.85
DFT-s-OFDM QPSK	2541	508200	90MHz	1	271	22.41
	2567.01	513402		1	271	22.40
	2592.99	518598		1	271	22.35
	2619	523800		1	271	22.34
	2644.98	528996		1	271	22.35
DFT-s-OFDM QPSK	2536.02	507204	80MHz	1	271	22.15
	2564.52	512904		1	271	22.25
	2592.99	518598		1	271	22.15
	2621.49	524298		1	271	22.30
	2649.99	529998		1	271	22.31
DFT-s-OFDM QPSK	2526	505200	60MHz	1	271	22.30
	2559.51	511902		1	271	22.41
	2592.99	518598		1	271	22.33
	2626.5	525300		1	271	22.34
	2659.98	531996		1	271	22.24
DFT-s-OFDM	2521.02	504202	50MHz	1	271	22.34

QPSK	2557	511400		1	271	22.41
	2592.99	518598		1	271	22.34
	2628.99	525798		1	271	22.33
	2664.99	532998		1	271	22.34
DFT-s-OFDM QPSK	2516.01	503202	40MHz	1	271	22.35
	2554.5	510900		1	271	22.36
	2592.99	518598		1	271	22.31
	2631.495	526299		1	271	22.40
	2670	534000		1	271	22.34
DFT-s-OFDM QPSK	2511	502204	30MHz	1	271	22.22
	2552.005	510401		1	271	22.37
	2592.99	518598		1	271	22.19
	2624.55	526797		1	271	22.42
	2674.98	534996		1	271	22.47
DFT-s-OFDM QPSK	2506.02	501204	20MHz	1	271	22.31
	2549.505	509901		1	271	22.33
	2592.99	518598		1	271	22.30
	2636.49	527298		1	271	22.34
	2679.99	535998		1	271	22.41

N66(Full power)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	1720	344000	20MHz	1	1	22.79
				1	53	22.73
				1	104	22.70
				50	0	22.11
				50	28	22.75
				50	56	21.93
	1745	349000		100	0	22.00
				1	1	22.82
				1	53	22.74
				1	104	22.76
				50	0	22.10
				50	28	22.81
	1770	354000		50	56	21.96
				100	0	22.02
				1	1	22.84
				1	53	22.68
				1	104	22.80
				50	0	22.11
DFT-s-OFDM QPSK	1720	344000	50	28	22.71	
			50	56	21.93	
			100	0	21.95	
			1	1	22.82	
			1	53	22.72	
			1	104	22.74	
50	0	21.97				
50	28	22.72				
50	56	21.93				

	1745	349000	100	0	21.92
			1	1	22.84
			1	53	22.80
			1	104	22.74
			50	0	21.98
			50	28	22.73
			50	56	21.98
	1770	354000	100	0	21.97
			1	1	22.82
			1	53	22.76
			1	104	22.75
			50	0	21.91
			50	28	22.69
			50	56	22.00
DFT-s-OFDM 16QAM	1720	344000	100	0	21.91
	1745	349000	1	1	22.09
	1770	354000	1	1	22.10
DFT-s-OFDM 64QAM	1720	344000	1	1	22.06
	1745	349000	1	1	20.44
	1770	354000	1	1	20.44
DFT-s-OFDM 256QAM	1720	344000	1	1	20.42
	1745	349000	1	1	18.53
	1770	354000	1	1	18.58
			1	1	18.53

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	1720	344000	20MHz	1	1	21.81
	1745	349000		1	1	21.85
	1770	354000		1	1	21.70
DFT-s-OFDM QPSK	1717.5	343500	15MHz	1	1	22.74
	1745	349000		1	1	22.79
	1772.5	354500		1	1	22.78
DFT-s-OFDM QPSK	1715	343000	10MHz	1	1	22.70
	1740	349000		1	1	22.80
	1765	355000		1	1	22.78
DFT-s-OFDM QPSK	1712.5	342500	5MHz	1	1	22.75
	1745	349000		1	1	22.78
	1777.5	355500		1	1	22.80

N66(Receiver on)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	1720	344000	20MHz	1	1	18.87
				1	53	18.76
				1	104	18.74
				50	0	19.16
				50	28	18.78
				50	56	18.98
	100	0		19.05		
	1745	349000		1	1	18.86
				1	53	18.77
				1	104	18.81
				50	0	19.14
				50	28	18.83
				50	56	18.98
	100	0		19.08		
	1770	354000		1	1	18.89
				1	53	18.72
				1	104	18.85
				50	0	19.16
50			28	18.73		
50			56	19.00		
100	0	19.01				
DFT-s-OFDM QPSK	1720	344000	1	1	18.87	
			1	53	18.75	
			1	104	18.80	
			50	0	19.00	
			50	28	19.02	
			50	56	19.01	
	100	0	18.99			
	1745	349000	1	1	18.88	
			1	53	18.83	
			1	104	18.81	
			50	0	19.00	
			50	28	19.03	
			50	56	19.02	
	100	0	19.03			
	1770	354000	1	1	18.87	
			1	53	18.83	
			1	104	18.77	
			50	0	18.95	
50			28	19.01		
50			56	19.01		
100	0	18.97				
DFT-s-OFDM 16QAM	1720	344000	1	1	19.12	
	1745	349000	1	1	19.17	
	1770	354000	1	1	19.09	
DFT-s-OFDM 64QAM	1720	344000	1	1	18.87	
	1745	349000	1	1	18.86	
	1770	354000	1	1	18.88	
DFT-s-OFDM 256QAM	1720	344000	1	1	18.53	
	1745	349000	1	1	18.58	
	1770	354000	1	1	18.53	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	1720	344000	20MHz	1	1	19.25
	1745	349000		1	1	19.32
	1770	354000		1	1	19.17
DFT-s-OFDM QPSK	1717.5	343500	15MHz	1	1	18.77
	1745	349000		1	1	18.84
	1772.5	354500		1	1	18.85
DFT-s-OFDM QPSK	1715	343000	10MHz	1	1	18.78
	1740	349000		1	1	18.82
	1765	355000		1	1	18.80
DFT-s-OFDM QPSK	1712.5	342500	5MHz	1	1	18.82
	1745	349000		1	1	18.84
	1777.5	355500		1	1	18.88

N66(NSA Hotspot on & Sensor on)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	1720	344000	20MHz	1	1	21.82
				1	53	21.77
				1	104	21.74
				50	0	22.07
				50	28	21.81
				50	56	21.86
	100	0		21.95		
	1745	349000		1	1	21.85
				1	53	21.76
				1	104	21.81
				50	0	22.02
				50	28	21.87
				50	56	21.87
	1770	354000		100	0	21.98
				1	1	21.90
				1	53	21.77
				1	104	21.87
				50	0	22.05
50			28	21.78		
DFT-s-OFDM QPSK	1720	344000	50	56	21.86	
			100	0	21.89	
			1	1	21.99	
			1	53	21.79	
			1	104	21.80	
			50	0	21.91	
1745	349000	50	28	21.81		
		50	56	21.85		
		100	0	21.89		
			1	1	22.01	

			1	53	21.84
			1	104	21.80
			50	0	21.99
			50	28	21.99
			50	56	21.94
			100	0	21.92
	1770	354000	1	1	21.98
			1	53	21.84
			1	104	21.82
			50	0	21.84
			50	28	21.75
			50	56	21.98
			100	0	21.84
			1	1	22.00
DFT-s-OFDM 16QAM	1720	344000	1	1	22.04
	1745	349000	1	1	21.97
	1770	354000	1	1	20.40
DFT-s-OFDM 64QAM	1720	344000	1	1	20.35
	1745	349000	1	1	20.37
	1770	354000	1	1	18.50
DFT-s-OFDM 256QAM	1720	344000	1	1	18.50
	1745	349000	1	1	18.48
	1770	354000			

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	1720	344000	20MHz	1	1	21.79
	1745	349000		1	1	21.78
	1770	354000		1	1	21.65
DFT-s-OFDM QPSK	1717.5	343500	15MHz	1	1	21.81
	1745	349000		1	1	21.81
	1772.5	354500		1	1	21.80
DFT-s-OFDM QPSK	1715	343000	10MHz	1	1	21.75
	1740	349000		1	1	21.85
	1765	355000		1	1	21.86
DFT-s-OFDM QPSK	1712.5	342500	5MHz	1	1	21.80
	1745	349000		1	1	21.84
	1777.5	355500		1	1	21.87

N78(Class 2 Full power)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	/	/	100MHz	1	1	/
				1	137	/
				1	271	/
				135	0	/
				135	69	/
				135	138	/
				270	0	/
	3500	633334		1	1	24.88
				1	137	24.74
				1	271	24.69
				135	0	23.90
				135	69	24.77
				135	138	23.82
				270	0	23.41
	/	/		1	1	/
				1	137	/
				1	271	/
				135	0	/
				135	69	/
				135	138	/
				270	0	/
DFT-s-OFDM QPSK	/	/	1	1	/	
			1	137	/	
			1	271	/	
			135	0	/	
			135	69	/	
			135	138	/	
			270	0	/	
	3500	633334	1	1	24.84	
			1	137	24.66	
			1	271	24.90	
			135	0	23.52	
			135	69	24.89	
			135	138	23.29	
			270	0	23.83	
	/	/	1	1	/	
			1	137	/	
			1	271	/	
			135	0	/	
			135	69	/	
			135	138	/	
			270	0	/	
DFT-s-OFDM 16QAM	/	/	1	1	/	
	3500	633334	1	1	23.89	
	/	/	1	1	/	
DFT-s-OFDM 64QAM	/	/	1	1	/	
	3500	633334	1	1	22.88	
	/	/	1	1	/	
DFT-s-OFDM 256QAM	/	/	1	1	/	
	3500	633334	1	1	20.98	
	/	/	1	1	/	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	/	/	100MHz	1	1	/
	3500	633334		1	1	23.12
	/	/		1	1	/
DFT-s-OFDM QPSK	3495	633000	90MHz	1	1	24.82
	3500	633334		1	1	24.79
	3505.02	633668		1	1	24.78
DFT-s-OFDM QPSK	3490.02	632668	80MHz	1	1	24.81
	3500	633334		1	1	24.82
	3510	634000		1	1	24.85
DFT-s-OFDM QPSK	3485.01	632334	70MHz	1	1	24.80
	3500	633334		1	1	24.85
	3515.01	634334		1	1	24.81
DFT-s-OFDM QPSK	3480	632000	60MHz	1	1	24.83
	3500	633334		1	1	24.76
	3520.02	634668		1	1	24.81
DFT-s-OFDM QPSK	3475.02	631668	50MHz	1	1	24.87
	3500	633334		1	1	24.81
	3525	635000		1	1	24.82
DFT-s-OFDM QPSK	3470.01	631334	40MHz	1	1	24.86
	3500	633334		1	1	24.84
	3530.01	635334		1	1	24.79
DFT-s-OFDM QPSK	3465	631000	30MHz	1	1	24.80
	3500	633334		1	1	24.85
	3535.02	635668		1	1	24.81
DFT-s-OFDM QPSK	3460.02	630668	20MHz	1	1	24.80
	3500	633334		1	1	24.85
	3540	636000		1	1	24.81

N78(Class 2 Receiver on)

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
DFT-s-OFDM PI/2 BPSK	/	/	100MHz	1	1	/
				1	137	/
				1	271	/
				135	0	/
				135	69	/
				135	138	/
				270	0	/
	3500	633334		1	1	21.92
				1	137	21.82
				1	271	21.75
				135	0	21.86
				135	69	21.84
				135	138	21.79
				270	0	21.38
	/	/		1	1	/
				1	137	/
				1	271	/
				135	0	/
				135	69	/
				135	138	/
				270	0	/
DFT-s-OFDM QPSK	/	/	1	1	/	
			1	137	/	
			1	271	/	
			135	0	/	
			135	69	/	
			135	138	/	
			270	0	/	
	3500	633334	1	1	21.91	
			1	137	21.71	
			1	271	21.98	
			135	0	21.48	
			135	69	21.93	
			135	138	21.26	
			270	0	21.79	
	/	/	1	1	/	
			1	137	/	
			1	271	/	
			135	0	/	
			135	69	/	
			135	138	/	
			270	0	/	
DFT-s-OFDM 16QAM	/	/	1	1	/	
	3500	633334	1	1	21.86	
	/	/	1	1	/	
DFT-s-OFDM 64QAM	/	/	1	1	/	
	3500	633334	1	1	21.82	
	/	/	1	1	/	
DFT-s-OFDM 256QAM	/	/	1	1	/	
	3500	633334	1	1	20.98	
	/	/	1	1	/	

Modulation	Carrier frequency(MHz)	UL Channel	Bandwidth	RB size	RB offset	Conducted Power(dBm)
						(dBm)
CP-OFDM QPSK	1860	/	100MHz	1	1	/
	1880	633334		1	1	21.60
	1900	/		1	1	/
DFT-s-OFDM QPSK	3495	633000	90MHz	1	1	21.78
	3500	633334		1	1	21.72
	3505.02	633668		1	1	21.75
DFT-s-OFDM QPSK	3490.02	632668	80MHz	1	1	21.78
	3500	633334		1	1	21.75
	3510	634000		1	1	21.78
DFT-s-OFDM QPSK	3485.01	632334	70MHz	1	1	21.73
	3500	633334		1	1	21.79
	3515.01	634334		1	1	21.75
DFT-s-OFDM QPSK	3480	632000	60MHz	1	1	21.79
	3500	633334		1	1	21.70
	3520.02	634668		1	1	21.76
DFT-s-OFDM QPSK	3475.02	631668	50MHz	1	1	21.82
	3500	633334		1	1	21.75
	3525	635000		1	1	21.75
DFT-s-OFDM QPSK	3470.01	631334	40MHz	1	1	21.81
	3500	633334		1	1	21.82
	3530.01	635334		1	1	21.76
DFT-s-OFDM QPSK	3465	631000	30MHz	1	1	21.73
	3500	633334		1	1	21.79
	3535.02	635668		1	1	21.75
DFT-s-OFDM QPSK	3460.02	630668	20MHz	1	1	21.73
	3500	633334		1	1	21.79
	3540	636000		1	1	21.75

6.5 Bluetooth Measurement result

BT

Duty Cycle

Modulation Type	Frequency (MHz)	Duty Cycle
GFSK(DH5)	2402	76.9%
π 4/DQPSK(2DH5)	2402	63.47%
8DPSK(3DH5)	2402	77.07%

Conducted Power

Modulation type	Conducted Average Power(dBm)		
	2402MHz	2441MHz	2480MHz
GFSK	11.84	11.89	11.85
π 4DQPSK	9.54	9.84	9.66
8DPSK	9.67	9.97	9.95

BLE

Duty Cycle

Modulation Type	Frequency (MHz)	Duty Cycle
GFSK (LE 1Mbps)	2402	62.9%
GFSK (LE 2Mbps)	2402	33.33%

Conducted Power

Modulation type	Conducted Average Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	6.24	6.85	7.48
GFSK (LE 2Mbps)	5.16	5.97	7.44

6.6 Wi-Fi Measurement result

WIFI 2.4GHz

Duty Cycle

Modulation Type	Frequency (MHz)	Duty Cycle
802.11b	2412	99.41%
802.11g	2412	98.54%
802.11n HT20	2412	98.44%
802.11n HT40	2412	94.9%

Conducted power

Mode	Freq(MHz)	Conducted average power output(dBm)	
		Receiver off	Receiver on
802.11b	2412MHz	18.01	14.80
	2437MHz	18.10	14.84
	2462MHz	17.67	14.47
802.11g	2412MHz	16.39	13.42
	2437MHz	15.91	12.98
	2462MHz	15.82	12.86
802.11n20M	2412MHz	16.21	13.29
	2437MHz	15.83	12.85
	2462MHz	15.78	12.81
802.11n40M	2422MHz	15.52	12.57
	2437MHz	15.58	12.66
	2452MHz	15.77	12.84

WIFI 5GHz(U-NII-1)

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)
802.11a	5180	98.18%
802.11n HT20	5180	97.93%
802.11n HT40	5190	96.88%
802.11ac VHT20	5180	98.45%
802.11ac VHT40	5190	96.91%
802.11ac VHT80	5210	93.88%

Conducted power

mode	Freq (MHz)	Conducted average power output(dBm)	
		Receiver off	Receiver on
802.11a	5180	16.08	13.15
	5200	16.47	13.55
	5220	16.82	13.93
	5240	16.88	13.96
802.11n-HT20	5180	16.02	13.08
	5200	16.31	13.37
	5220	16.74	13.82
	5240	16.79	13.86
802.11n-HT40	5190	15.36	12.41
	5230	15.97	13.01
802.11ac 20M	5180	15.03	12.09
	5200	15.21	12.25
	5220	15.50	12.55
	5240	15.49	12.56
802.11ac 40M	5190	15.19	12.26
	5230	15.67	12.70
802.11ac 80M	5210	15.19	12.27

WIFI 5GHz(U-NII-2A)

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)
802.11a	5260	98.18%
802.11n HT20	5260	97.93%
802.11n HT40	5270	96.88%
802.11ac VHT20	5260	98.45%
802.11ac VHT40	5270	96.91%
802.11ac VHT80	5290	93.88%

Conducted power

mode	Freq (MHz)	Conducted average power output(dBm)	
		Receiver off	Receiver on
802.11a	5260	16.78	13.95
	5280	16.45	13.51
	5300	16.65	13.97
	5320	16.79	14.03
802.11n-HT20	5260	16.48	13.52
	5280	16.43	13.51
	5300	16.18	13.26
	5320	16.16	13.22
802.11n-HT40	5270	15.98	13.05
	5310	15.49	12.51
802.11ac 20M	5260	15.57	12.64
	5280	15.50	12.53
	5300	15.29	12.34
	5320	15.15	12.22
802.11ac 40M	5270	15.65	12.72
	5310	15.34	12.41
802.11ac 80M	5290	15.28	12.30

WIFI 5GHz(U-NII-2C)

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)
802.11a	5500	98.18%
802.11n HT20	5500	97.93%
802.11n HT40	5510	96.88%
802.11ac VHT20	5500	98.45%
802.11ac VHT40	5510	96.91%
802.11ac VHT80	5530	93.88%

Conducted power

mode	Freq (MHz)	Conducted average power output(dBm)	
		Receiver off	Receiver on
802.11a	5500	16.16	13.24
	5520	16.11	13.18
	5540	16.03	13.11
	5560	16.02	13.04
	5580	16.01	13.08
	5600	16.02	13.09
	5620	16.04	13.12
	5640	16.04	13.10
	5660	16.39	13.42
	5680	16.54	13.60
	5700	16.88	13.95
802.11n-HT20	5500	16.04	13.10
	5520	16.04	13.06
	5540	16.03	13.08
	5560	16.05	13.12
	5580	16.02	13.07
	5600	16.01	13.08
	5620	16.06	13.12
	5640	16.03	13.08
	5660	16.08	13.15
	5680	16.24	13.30
	5700	16.48	13.54
802.11n-HT40	5510	15.15	12.20
	5550	15.05	12.13
	5590	15.02	12.05
	5630	15.34	12.37
	5670	15.47	12.54
	5710	15.86	12.90
802.11ac 20M	5500	15.01	12.05
	5520	15.02	12.07
	5540	15.08	12.15

	5560	15.06	12.09
	5580	15.04	12.08
	5600	15.01	12.09
	5620	15.04	12.12
	5640	15.08	12.15
	5660	15.12	12.17
	5680	15.16	12.22
	5700	15.39	12.46
	5720	15.59	12.65
802.11ac 40M	5510	15.05	12.07
	5550	15.04	12.06
	5590	15.06	12.10
	5630	15.24	12.29
	5670	15.30	12.35
	5710	15.65	12.69
802.11ac 80M	5530	15.11	12.13
	5610	15.02	12.09
	5690	15.27	12.34

WIFI 5GHz(U-NII-3)

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)
802.11a	5745	98.18%
802.11n HT20	5745	97.93%
802.11n HT40	5755	96.88%
802.11ac VHT20	5745	98.45%
802.11ac VHT40	5755	96.91%
802.11ac VHT80	5775	93.88%

Conducted power

mode	Freq (MHz)	Conducted average power output(dBm)	
		Receiver off	Receiver on
802.11a	5745	16.93	13.90
	5765	16.87	13.87
	5785	16.82	13.87
	5805	16.49	13.51
	5825	16.47	13.54
802.11n-HT20	5745	16.54	13.58
	5765	16.62	13.65
	5785	16.55	13.61
	5805	16.39	13.44
	5825	16.29	13.35
802.11n-HT40	5755	15.78	12.81
	5795	15.86	12.91
802.11ac 20M	5745	15.33	12.36
	5765	15.47	12.50
	5785	15.57	12.62
	5805	15.30	12.32
	5825	15.17	12.23
802.11ac 40M	5755	15.49	12.55
	5795	15.59	12.61
802.11ac 80M	5775	15.35	12.37

6.7 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Method1:

According to the KDB447498 4.3.1 (1)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} (\text{GHz})] \leq 3.0$ for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

This is equivalent to $[(\text{max. power of channel, including tune-up tolerance, mW}) / (60 / \sqrt{f} (\text{GHz}) \text{ mW})] \cdot [20 \text{ mm} / (\text{min. test separation distance, mm})] \leq 1.0$ for 1-g SAR; also see Appendix A for approximate exclusion threshold values at selected frequencies and distances.

Method2:

According to the KDB447498 appendix A

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

Summary of Transmitters

Band/Mode	Max conducted power adjusted for tune-up tolerance(mW)	Exposure condition	SAR test exclusion threshold (mW)	Standalone SAR Required
BT/BLE	20.0	Head	10	Yes
		Body-worn/Hotspot	19	Yes
Wi-Fi 2.4GHz	39.8	Head	10	Yes
		Body-worn/Hotspot	19	Yes
Wi-Fi 5GHz (U-NII-1)	31.6	Head	7	Yes
		Body-worn/Hotspot	13	Yes
Wi-Fi 5GHz (U-NII-2A)	31.6	Head	7	Yes
		Body-worn/Hotspot	13	Yes
Wi-Fi 5GHz (U-NII-2C)	31.6	Head	6	Yes
		Body-worn/Hotspot	13	Yes
Wi-Fi 5GHz (U-NII-3)	31.6	Head	6	Yes
		Body-worn/Hotspot	12	Yes