

8.4 Intra-Band Uplink CA Power

8.4.1 LTE Band7 Uplink CA Output Power

LTE Uplink 2CA_ Band 7-State1-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	17.28	17.80
21100	21298	20	QPSK	1	High	1	Low	2	17.19	17.80
21350	21152	20	QPSK	1	Low	1	High	2	17.22	17.80

LTE Uplink 2CA_ Band 7-State2-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	16.25	16.80
21100	21298	20	QPSK	1	High	1	Low	2	16.16	16.80
21350	21152	20	QPSK	1	Low	1	High	2	16.19	16.80

LTE Uplink 2CA_ Band 7-State3-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	16.25	16.80
21100	21298	20	QPSK	1	High	1	Low	2	16.16	16.80
21350	21152	20	QPSK	1	Low	1	High	2	16.19	16.80

LTE Uplink 2CA_Band 7-State4-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	21.24	21.80
21100	21298	20	QPSK	1	High	1	Low	2	21.18	21.80
21350	21152	20	QPSK	1	Low	1	High	2	21.20	21.80

LTE Uplink 2CA_Band 7-State5-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	19.13	19.80
21100	21298	20	QPSK	1	High	1	Low	2	19.06	19.80
21350	21152	20	QPSK	1	Low	1	High	2	19.09	19.80

LTE Uplink 2CA_Band 7-State6-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	19.13	19.80
21100	21298	20	QPSK	1	High	1	Low	2	19.06	19.80
21350	21152	20	QPSK	1	Low	1	High	2	19.09	19.80

LTE Uplink 2CA_ Band 7-State1-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	23.92	24.30
21100	21298	20	QPSK	1	High	1	Low	2	23.89	24.30
21350	21152	20	QPSK	1	Low	1	High	2	23.84	24.30

LTE Uplink 2CA_ Band 7-State2-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	23.92	24.30
21100	21298	20	QPSK	1	High	1	Low	2	23.89	24.30
21350	21152	20	QPSK	1	Low	1	High	2	23.84	24.30

LTE Uplink 2CA_ Band 7-State3-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	23.92	24.30
21100	21298	20	QPSK	1	High	1	Low	2	23.89	24.30
21350	21152	20	QPSK	1	Low	1	High	2	23.84	24.30

LTE Uplink 2CA Band 7-State4-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	22.37	22.80
21100	21298	20	QPSK	1	High	1	Low	2	22.35	22.80
21350	21152	20	QPSK	1	Low	1	High	2	22.29	22.80

LTE Uplink 2CA Band 7-State5-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	20.32	20.80
21100	21298	20	QPSK	1	High	1	Low	2	20.26	20.80
21350	21152	20	QPSK	1	Low	1	High	2	20.28	20.80

LTE Uplink 2CA Band 7-State6-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	High	1	Low	2	20.32	20.80
21100	21298	20	QPSK	1	High	1	Low	2	20.26	20.80
21350	21152	20	QPSK	1	Low	1	High	2	20.28	20.80

8.4.2 LTE Band38 Uplink CA Output Power

LTE Uplink 2CA_Band 38-State1-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	20.24	20.80
38099	37901	20	QPSK	1	Low	1	High	2	20.29	20.80
38150	37952	20	QPSK	1	Low	1	High	2	20.33	20.80

LTE Uplink 2CA_Band 38-State2-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	19.55	19.80
38099	37901	20	QPSK	1	Low	1	High	2	19.32	19.80
38150	37952	20	QPSK	1	Low	1	High	2	19.38	19.80

LTE Uplink 2CA_Band 38-State3-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	19.55	19.80
38099	37901	20	QPSK	1	Low	1	High	2	19.32	19.80
38150	37952	20	QPSK	1	Low	1	High	2	19.38	19.80

LTE Uplink 2CA Band 38-State4-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.85	24.30
38150	37952	20	QPSK	1	Low	1	High	2	23.92	24.30

LTE Uplink 2CA Band 38-State5-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.85	24.30
38150	37952	20	QPSK	1	Low	1	High	2	23.92	24.30

LTE Uplink 2CA Band 38-State6-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.85	24.30
38150	37952	20	QPSK	1	Low	1	High	2	23.92	24.30

LTE Uplink 2CA_Band 38-State1-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.93	24.30
38150	37952	20	QPSK	1	Low	1	High	2	24.06	24.30

LTE Uplink 2CA_Band 38-State2-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.93	24.30
38150	37952	20	QPSK	1	Low	1	High	2	24.06	24.30

LTE Uplink 2CA_Band 38-State3-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.93	24.30
38150	37952	20	QPSK	1	Low	1	High	2	24.06	24.30

LTE Uplink 2CA Band 38-State4-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.93	24.30
38150	37952	20	QPSK	1	Low	1	High	2	24.06	24.30

LTE Uplink 2CA Band 38-State5-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.93	24.30
38150	37952	20	QPSK	1	Low	1	High	2	24.06	24.30

LTE Uplink 2CA Band 38-State6-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	High	1	Low	2	24.07	24.30
38099	37901	20	QPSK	1	Low	1	High	2	23.93	24.30
38150	37952	20	QPSK	1	Low	1	High	2	24.06	24.30

8.4.3 LTE Band41 Uplink CA Output Power

LTE Uplink 2CA Band 41-State1-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	20.08	20.30
40185	40383	20	QPSK	1	High	1	Low	2	19.97	20.30
40620	40818	20	QPSK	1	High	1	Low	2	20.02	20.30
41055	40857	20	QPSK	1	High	1	Low	2	20.05	20.30
41490	41292	20	QPSK	1	Low	1	High	2	20.04	20.30

LTE Uplink 2CA Band 41-State2-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	19.06	19.30
40185	40383	20	QPSK	1	High	1	Low	2	18.92	19.30
40620	40818	20	QPSK	1	High	1	Low	2	18.97	19.30
41055	40857	20	QPSK	1	High	1	Low	2	19.02	19.30
41490	41292	20	QPSK	1	Low	1	High	2	19.06	19.30

LTE Uplink 2CA Band 41-State3-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	15.42	17.50
40185	40383	20	QPSK	1	High	1	Low	2	15.45	17.50
40620	40818	20	QPSK	1	High	1	Low	2	15.53	17.50
41055	40857	20	QPSK	1	High	1	Low	2	15.53	17.50
41490	41292	20	QPSK	1	Low	1	High	2	18.60	17.50

LTE Uplink 2CA Band 41-State4-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	22.92	23.30
40185	40383	20	QPSK	1	High	1	Low	2	22.84	23.30
40620	40818	20	QPSK	1	High	1	Low	2	22.89	23.30
41055	40857	20	QPSK	1	High	1	Low	2	22.84	23.30
41490	41292	20	QPSK	1	Low	1	High	2	22.93	23.30

LTE Uplink 2CA Band 41-State5-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	21.04	21.30
40185	40383	20	QPSK	1	High	1	Low	2	20.85	21.30
40620	40818	20	QPSK	1	High	1	Low	2	20.92	21.30
41055	40857	20	QPSK	1	High	1	Low	2	20.95	21.30
41490	41292	20	QPSK	1	Low	1	High	2	21.00	21.30

LTE Uplink 2CA Band 41-State6-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	21.04	21.30
40185	40383	20	QPSK	1	High	1	Low	2	20.85	21.30
40620	40818	20	QPSK	1	High	1	Low	2	20.92	21.30
41055	40857	20	QPSK	1	High	1	Low	2	20.95	21.30
41490	41292	20	QPSK	1	Low	1	High	2	21.00	21.30

LTE Uplink 2CA Band 41-State1-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	24.15	24.30
40185	40383	20	QPSK	1	High	1	Low	2	24.11	24.30
40620	40818	20	QPSK	1	High	1	Low	2	24.06	24.30
41055	40857	20	QPSK	1	High	1	Low	2	24.02	24.30
41490	41292	20	QPSK	1	Low	1	High	2	24.09	24.30

LTE Uplink 2CA Band 41-State2-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	24.15	24.30
40185	40383	20	QPSK	1	High	1	Low	2	24.11	24.30
40620	40818	20	QPSK	1	High	1	Low	2	24.06	24.30
41055	40857	20	QPSK	1	High	1	Low	2	24.02	24.30
41490	41292	20	QPSK	1	Low	1	High	2	24.09	24.30

LTE Uplink 2CA Band 41-State118-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	24.15	24.30
40185	40383	20	QPSK	1	High	1	Low	2	24.11	24.30
40620	40818	20	QPSK	1	High	1	Low	2	24.06	24.30
41055	40857	20	QPSK	1	High	1	Low	2	24.02	24.30
41490	41292	20	QPSK	1	Low	1	High	2	24.09	24.30

LTE Uplink 2CA Band 41-State4-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	24.15	24.30
40185	40383	20	QPSK	1	High	1	Low	2	24.11	24.30
40620	40818	20	QPSK	1	High	1	Low	2	24.06	24.30
41055	40857	20	QPSK	1	High	1	Low	2	24.02	24.30
41490	41292	20	QPSK	1	Low	1	High	2	24.09	24.30

LTE Uplink 2CA Band 41-State5-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	24.15	24.30
40185	40383	20	QPSK	1	High	1	Low	2	24.11	24.30
40620	40818	20	QPSK	1	High	1	Low	2	24.06	24.30
41055	40857	20	QPSK	1	High	1	Low	2	24.02	24.30
41490	41292	20	QPSK	1	Low	1	High	2	24.09	24.30

LTE Uplink 2CA Band 41-State6-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	24.15	24.30
40185	40383	20	QPSK	1	High	1	Low	2	24.11	24.30
40620	40818	20	QPSK	1	High	1	Low	2	24.06	24.30
41055	40857	20	QPSK	1	High	1	Low	2	24.02	24.30
41490	41292	20	QPSK	1	Low	1	High	2	24.09	24.30

8.5 Intra-Band Uplink CA Power

8.5.1 NR Band5 Output Power

5G N5-State 1 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	21.02	21.04	20.96	22.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	21.17	20.87	20.86	22.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	20.85	20.83	20.94	22.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	21.06	21.06	21.09	22.00
		1	53	21.39	21.30	21.30	22.00
		1	104	21.16	21.15	21.07	22.00
	DFT-s-OFDM BPSK	50	0	21.31	21.26	21.26	22.00
		50	28	21.28	21.24	21.22	22.00
		50	56	21.25	21.21	21.19	22.00
	DFT-s-OFDM BPSK	100	0	21.38	21.23	21.13	22.00
	DFT-s-OFDM QPSK	1	1	20.87	20.94	21.26	22.00
	DFT-s-OFDM 16QAM	1	1	20.56	20.70	20.52	22.00
	DFT-s-OFDM 64QAM	1	1	20.81	20.72	20.80	22.00
	DFT-s-OFDM	1	1	19.75	19.75	19.60	20.50
	CP-OFDM QPSK	1	1	20.86	20.91	20.99	22.00
	CP-OFDM 16QAM	1	1	21.12	21.19	21.01	22.00
	CP-OFDM 64QAM	1	1	20.45	20.40	20.43	21.50
	CP-OFDM 256QAM	1	1	17.30	17.16	17.26	18.50

5G N5-State 2 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	20.17	20.29	19.93	21.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	20.01	20.11	20.01	21.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	20.19	19.99	20.03	21.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	20.11	20.21	20.07	21.00
		1	53	20.39	20.41	20.21	21.00
		1	104	20.14	20.28	20.20	21.00
	DFT-s-OFDM BPSK	50	0	20.19	20.21	20.13	21.00
		50	28	20.37	20.42	20.36	21.00
		50	56	20.28	20.27	20.15	21.00
	DFT-s-OFDM BPSK	100	0	20.31	20.41	20.09	21.00
	DFT-s-OFDM QPSK	1	1	20.23	20.51	20.09	21.00
	DFT-s-OFDM 16QAM	1	1	20.41	20.51	20.23	21.00
	DFT-s-OFDM 64QAM	1	1	20.27	20.43	20.05	21.00
	DFT-s-OFDM	1	1	19.69	19.99	19.42	20.50
	CP-OFDM QPSK	1	1	20.45	20.35	20.11	21.00
	CP-OFDM 16QAM	1	1	20.35	20.49	20.21	21.00
	CP-OFDM 64QAM	1	1	20.19	20.39	20.27	21.00
	CP-OFDM 256QAM	1	1	17.20	17.25	17.26	18.50

5G N5-State 3 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	20.17	20.29	19.93	21.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	20.01	20.11	20.01	21.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	20.19	19.99	20.03	21.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	20.11	20.21	20.07	21.00
		1	53	20.39	20.41	20.21	21.00
		1	104	20.14	20.28	20.20	21.00
	DFT-s-OFDM BPSK	50	0	20.19	20.21	20.13	21.00
		50	28	20.37	20.42	20.36	21.00
		50	56	20.28	20.27	20.15	21.00
	DFT-s-OFDM BPSK	100	0	20.31	20.41	20.09	21.00
	DFT-s-OFDM QPSK	1	1	20.23	20.51	20.09	21.00
	DFT-s-OFDM 16QAM	1	1	20.41	20.51	20.23	21.00
	DFT-s-OFDM 64QAM	1	1	20.27	20.43	20.05	21.00
	DFT-s-OFDM	1	1	19.69	19.99	19.42	20.50
	CP-OFDM QPSK	1	1	20.45	20.35	20.11	21.00
	CP-OFDM 16QAM	1	1	20.35	20.49	20.21	21.00
	CP-OFDM 64QAM	1	1	20.19	20.39	20.27	21.00
	CP-OFDM 256QAM	1	1	17.20	17.25	17.26	18.50

5G N5-State 4 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	24.04	24.05	24.00	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.99	24.02	24.05	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.87	24.19	23.93	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.11	24.12	24.12	25.00
		1	53	24.33	24.35	24.22	25.00
		1	104	24.10	24.20	24.13	25.00
	DFT-s-OFDM BPSK	50	0	23.48	23.46	23.32	24.00
		50	28	23.56	23.63	23.44	24.00
		50	56	23.39	23.51	23.30	24.00
	DFT-s-OFDM BPSK	100	0	23.36	23.52	23.47	24.00
	DFT-s-OFDM QPSK	1	1	24.06	24.17	24.10	25.00
	DFT-s-OFDM 16QAM	1	1	22.87	22.90	22.83	24.00
	DFT-s-OFDM 64QAM	1	1	21.33	21.23	21.03	22.50
	DFT-s-OFDM	1	1	19.62	19.76	19.61	20.50
	CP-OFDM QPSK	1	1	22.35	22.42	22.37	23.50
	CP-OFDM 16QAM	1	1	22.38	22.23	22.26	23.00
	CP-OFDM 64QAM	1	1	20.47	20.44	20.52	21.50
	CP-OFDM 256QAM	1	1	17.22	17.20	17.30	18.50

5G N5-State 5 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	24.04	24.05	24.00	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.99	24.02	24.05	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.87	24.19	23.93	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.11	24.12	24.12	25.00
		1	53	24.33	24.35	24.22	25.00
		1	104	24.10	24.20	24.13	25.00
	DFT-s-OFDM BPSK	50	0	23.48	23.46	23.32	24.00
		50	28	23.56	23.63	23.44	24.00
		50	56	23.39	23.51	23.30	24.00
	DFT-s-OFDM BPSK	100	0	23.36	23.52	23.47	24.00
	DFT-s-OFDM QPSK	1	1	24.06	24.17	24.10	25.00
	DFT-s-OFDM 16QAM	1	1	22.87	22.90	22.83	24.00
	DFT-s-OFDM 64QAM	1	1	21.33	21.23	21.03	22.50
	DFT-s-OFDM	1	1	19.62	19.76	19.61	20.50
	CP-OFDM QPSK	1	1	22.35	22.42	22.37	23.50
	CP-OFDM 16QAM	1	1	22.38	22.23	22.26	23.00
	CP-OFDM 64QAM	1	1	20.47	20.44	20.52	21.50
	CP-OFDM 256QAM	1	1	17.22	17.20	17.30	18.50

5G N5-State 6 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	24.04	24.05	24.00	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.99	24.02	24.05	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.87	24.19	23.93	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.11	24.12	24.12	25.00
		1	53	24.33	24.35	24.22	25.00
		1	104	24.10	24.20	24.13	25.00
	DFT-s-OFDM BPSK	50	0	23.48	23.46	23.32	24.00
		50	28	23.56	23.63	23.44	24.00
		50	56	23.39	23.51	23.30	24.00
	DFT-s-OFDM BPSK	100	0	23.36	23.52	23.47	24.00
	DFT-s-OFDM QPSK	1	1	24.06	24.17	24.10	25.00
	DFT-s-OFDM 16QAM	1	1	22.87	22.90	22.83	24.00
	DFT-s-OFDM 64QAM	1	1	21.33	21.23	21.03	22.50
	DFT-s-OFDM	1	1	19.62	19.76	19.61	20.50
	CP-OFDM QPSK	1	1	22.35	22.42	22.37	23.50
	CP-OFDM 16QAM	1	1	22.38	22.23	22.26	23.00
	CP-OFDM 64QAM	1	1	20.47	20.44	20.52	21.50
	CP-OFDM 256QAM	1	1	17.22	17.20	17.30	18.50

5G N5-State 1 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	19.20	18.94	18.96	19.50
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	18.97	18.81	19.17	19.50
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	19.05	19.02	18.99	19.50
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	19.16	18.94	19.07	19.50
		1	53	19.23	19.13	19.11	19.50
		1	104	19.17	18.99	18.94	19.50
	DFT-s-OFDM BPSK	50	0	19.16	18.91	18.97	19.50
		50	28	19.28	19.19	19.17	19.50
		50	56	19.21	19.05	19.05	19.50
	DFT-s-OFDM BPSK	100	0	19.20	19.05	19.07	19.50
	DFT-s-OFDM QPSK	1	1	19.05	19.07	19.13	19.50
	DFT-s-OFDM 16QAM	1	1	19.16	19.13	19.01	19.50
	DFT-s-OFDM 64QAM	1	1	19.03	18.99	19.09	19.50
	DFT-s-OFDM	1	1	19.10	19.07	18.94	19.50
	CP-OFDM QPSK	1	1	19.26	19.07	19.05	19.50
	CP-OFDM 16QAM	1	1	19.03	19.13	19.11	19.50
	CP-OFDM 64QAM	1	1	19.01	19.11	19.09	19.50
	CP-OFDM 256QAM	1	1	17.28	17.14	17.23	18.50

5G N5-State 2 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	16.84	17.01	16.76	18.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	16.72	17.03	16.83	18.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	16.65	16.88	16.98	18.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	16.84	16.98	16.91	18.00
		1	53	17.23	17.39	17.34	18.00
		1	104	17.10	17.13	17.08	18.00
	DFT-s-OFDM BPSK	50	0	17.06	16.93	16.86	18.00
		50	28	17.36	17.40	17.23	18.00
		50	56	16.97	17.07	16.98	18.00
	DFT-s-OFDM BPSK	100	0	17.11	17.25	17.11	18.00
	DFT-s-OFDM QPSK	1	1	16.89	17.06	16.97	18.00
	DFT-s-OFDM 16QAM	1	1	17.08	17.01	17.04	18.00
	DFT-s-OFDM 64QAM	1	1	16.89	16.94	16.97	18.00
	DFT-s-OFDM	1	1	17.25	17.22	17.15	18.00
	CP-OFDM QPSK	1	1	17.10	17.15	17.12	18.00
	CP-OFDM 16QAM	1	1	17.02	17.11	17.16	18.00
	CP-OFDM 64QAM	1	1	17.08	17.18	17.03	18.00
	CP-OFDM 256QAM	1	1	17.15	17.17	17.12	18.00

5G N5-State 3 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	16.84	17.01	16.76	18.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	16.72	17.03	16.83	18.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	16.65	16.88	16.98	18.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	16.84	16.98	16.91	18.00
		1	53	17.23	17.39	17.34	18.00
		1	104	17.10	17.13	17.08	18.00
	DFT-s-OFDM BPSK	50	0	17.06	16.93	16.86	18.00
		50	28	17.36	17.40	17.23	18.00
		50	56	16.97	17.07	16.98	18.00
	DFT-s-OFDM BPSK	100	0	17.11	17.25	17.11	18.00
	DFT-s-OFDM QPSK	1	1	16.89	17.06	16.97	18.00
	DFT-s-OFDM 16QAM	1	1	17.08	17.01	17.04	18.00
	DFT-s-OFDM 64QAM	1	1	16.89	16.94	16.97	18.00
	DFT-s-OFDM	1	1	17.25	17.22	17.15	18.00
	CP-OFDM QPSK	1	1	17.10	17.15	17.12	18.00
	CP-OFDM 16QAM	1	1	17.02	17.11	17.16	18.00
	CP-OFDM 64QAM	1	1	17.08	17.18	17.03	18.00
	CP-OFDM 256QAM	1	1	17.15	17.17	17.12	18.00

5G N5-State 4 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.10	22.80	22.92	23.50
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.15	23.08	23.03	23.50
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	22.96	22.82	22.83	23.50
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	22.95	23.03	22.94	23.50
		1	53	22.99	23.08	23.01	23.50
		1	104	22.80	23.01	22.93	23.50
	DFT-s-OFDM BPSK	50	0	22.89	22.82	22.57	23.50
		50	28	22.90	23.04	22.95	23.50
		50	56	22.89	22.96	22.82	23.50
	DFT-s-OFDM BPSK	100	0	23.03	23.10	22.96	23.50
	DFT-s-OFDM QPSK	1	1	22.72	22.97	22.95	23.50
	DFT-s-OFDM 16QAM	1	1	22.64	22.85	22.67	23.50
	DFT-s-OFDM 64QAM	1	1	21.50	21.48	21.29	22.50
	DFT-s-OFDM	1	1	19.28	19.44	19.28	20.50
	CP-OFDM QPSK	1	1	22.40	22.33	22.29	23.50
	CP-OFDM 16QAM	1	1	21.93	22.17	21.93	23.00
	CP-OFDM 64QAM	1	1	20.37	20.29	20.09	21.50
	CP-OFDM 256QAM	1	1	17.07	17.22	17.10	18.50

5G N5-State 5 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	21.02	21.04	20.96	22.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	21.17	20.87	20.86	22.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	20.85	20.83	20.94	22.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	21.06	21.06	21.09	22.00
		1	53	21.39	21.30	21.30	22.00
		1	104	21.16	21.15	21.07	22.00
	DFT-s-OFDM BPSK	50	0	21.31	21.26	21.26	22.00
		50	28	21.28	21.24	21.22	22.00
		50	56	21.25	21.21	21.19	22.00
	DFT-s-OFDM BPSK	100	0	21.38	21.23	21.13	22.00
	DFT-s-OFDM QPSK	1	1	20.87	20.94	21.26	22.00
	DFT-s-OFDM 16QAM	1	1	20.56	20.70	20.52	22.00
	DFT-s-OFDM 64QAM	1	1	20.81	20.72	20.80	22.00
	DFT-s-OFDM	1	1	19.75	19.75	19.60	20.50
	CP-OFDM QPSK	1	1	20.86	20.91	20.99	22.00
	CP-OFDM 16QAM	1	1	21.12	21.19	21.01	22.00
	CP-OFDM 64QAM	1	1	20.45	20.40	20.43	21.50
	CP-OFDM 256QAM	1	1	17.30	17.16	17.26	18.50

5G N5-State 6 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	21.02	21.04	20.96	22.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	21.17	20.87	20.86	22.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	20.85	20.83	20.94	22.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	21.06	21.06	21.09	22.00
		1	53	21.39	21.30	21.30	22.00
		1	104	21.16	21.15	21.07	22.00
	DFT-s-OFDM BPSK	50	0	21.31	21.26	21.26	22.00
		50	28	21.28	21.24	21.22	22.00
		50	56	21.25	21.21	21.19	22.00
	DFT-s-OFDM BPSK	100	0	21.38	21.23	21.13	22.00
	DFT-s-OFDM QPSK	1	1	20.87	20.94	21.26	22.00
	DFT-s-OFDM 16QAM	1	1	20.56	20.70	20.52	22.00
	DFT-s-OFDM 64QAM	1	1	20.81	20.72	20.80	22.00
	DFT-s-OFDM	1	1	19.75	19.75	19.60	20.50
	CP-OFDM QPSK	1	1	20.86	20.91	20.99	22.00
	CP-OFDM 16QAM	1	1	21.12	21.19	21.01	22.00
	CP-OFDM 64QAM	1	1	20.45	20.40	20.43	21.50
	CP-OFDM 256QAM	1	1	17.30	17.16	17.26	18.50

8.5 Intra-Band Uplink CA Power

5G N5-State 1 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.68	24.07	23.71	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.82	23.80	23.81	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.97	24.07	23.90	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.07	24.02	24.02	25.00
		1	53	24.16	24.31	24.24	25.00
		1	104	23.86	24.03	23.98	25.00
	DFT-s-OFDM BPSK	50	0	23.16	23.24	22.98	24.00
		50	28	23.31	23.42	23.19	24.00
		50	56	23.20	23.35	22.87	24.00
	DFT-s-OFDM BPSK	100	0	23.30	23.44	23.21	24.00
	DFT-s-OFDM QPSK	1	1	23.91	23.98	23.78	25.00
	DFT-s-OFDM 16QAM	1	1	22.67	22.65	22.69	24.00
	DFT-s-OFDM 64QAM	1	1	21.23	21.17	21.18	22.50
	DFT-s-OFDM	1	1	19.47	19.85	19.99	20.50
	CP-OFDM QPSK	1	1	22.38	22.61	22.19	23.50
	CP-OFDM 16QAM	1	1	22.46	22.15	22.10	23.00
	CP-OFDM 64QAM	1	1	20.48	20.44	20.45	21.50
	CP-OFDM 256QAM	1	1	17.19	17.16	17.28	18.50

5G N5-State 2 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.68	24.07	23.71	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.82	23.80	23.81	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.97	24.07	23.90	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.07	24.02	24.02	25.00
		1	53	24.16	24.31	24.24	25.00
		1	104	23.86	24.03	23.98	25.00
	DFT-s-OFDM BPSK	50	0	23.16	23.24	22.98	24.00
		50	28	23.31	23.42	23.19	24.00
		50	56	23.20	23.35	22.87	24.00
	DFT-s-OFDM BPSK	100	0	23.30	23.44	23.21	24.00
	DFT-s-OFDM QPSK	1	1	23.91	23.98	23.78	25.00
	DFT-s-OFDM 16QAM	1	1	22.67	22.65	22.69	24.00
	DFT-s-OFDM 64QAM	1	1	21.23	21.17	21.18	22.50
	DFT-s-OFDM	1	1	19.47	19.85	19.99	20.50
	CP-OFDM QPSK	1	1	22.38	22.61	22.19	23.50
	CP-OFDM 16QAM	1	1	22.46	22.15	22.10	23.00
	CP-OFDM 64QAM	1	1	20.48	20.44	20.45	21.50
	CP-OFDM 256QAM	1	1	17.19	17.16	17.28	18.50

5G N5-State 3 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.68	24.07	23.71	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.82	23.80	23.81	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.97	24.07	23.90	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.07	24.02	24.02	25.00
		1	53	24.16	24.31	24.24	25.00
		1	104	23.86	24.03	23.98	25.00
	DFT-s-OFDM BPSK	50	0	23.16	23.24	22.98	24.00
		50	28	23.31	23.42	23.19	24.00
		50	56	23.20	23.35	22.87	24.00
	DFT-s-OFDM BPSK	100	0	23.30	23.44	23.21	24.00
	DFT-s-OFDM QPSK	1	1	23.91	23.98	23.78	25.00
	DFT-s-OFDM 16QAM	1	1	22.67	22.65	22.69	24.00
	DFT-s-OFDM 64QAM	1	1	21.23	21.17	21.18	22.50
	DFT-s-OFDM	1	1	19.47	19.85	19.99	20.50
	CP-OFDM QPSK	1	1	22.38	22.61	22.19	23.50
	CP-OFDM 16QAM	1	1	22.46	22.15	22.10	23.00
	CP-OFDM 64QAM	1	1	20.48	20.44	20.45	21.50
	CP-OFDM 256QAM	1	1	17.19	17.16	17.28	18.50

5G N5-State 4 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.68	24.07	23.71	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.82	23.80	23.81	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.97	24.07	23.90	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.07	24.02	24.02	25.00
		1	53	24.16	24.31	24.24	25.00
		1	104	23.86	24.03	23.98	25.00
	DFT-s-OFDM BPSK	50	0	23.16	23.24	22.98	24.00
		50	28	23.31	23.42	23.19	24.00
		50	56	23.20	23.35	22.87	24.00
	DFT-s-OFDM BPSK	100	0	23.30	23.44	23.21	24.00
	DFT-s-OFDM QPSK	1	1	23.91	23.98	23.78	25.00
	DFT-s-OFDM 16QAM	1	1	22.67	22.65	22.69	24.00
	DFT-s-OFDM 64QAM	1	1	21.23	21.17	21.18	22.50
	DFT-s-OFDM	1	1	19.47	19.85	19.99	20.50
	CP-OFDM QPSK	1	1	22.38	22.61	22.19	23.50
	CP-OFDM 16QAM	1	1	22.46	22.15	22.10	23.00
	CP-OFDM 64QAM	1	1	20.48	20.44	20.45	21.50
	CP-OFDM 256QAM	1	1	17.19	17.16	17.28	18.50

5G N5-State 5 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.68	24.07	23.71	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.82	23.80	23.81	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.97	24.07	23.90	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.07	24.02	24.02	25.00
		1	53	24.16	24.31	24.24	25.00
		1	104	23.86	24.03	23.98	25.00
	DFT-s-OFDM BPSK	50	0	23.16	23.24	22.98	24.00
		50	28	23.31	23.42	23.19	24.00
		50	56	23.20	23.35	22.87	24.00
	DFT-s-OFDM BPSK	100	0	23.30	23.44	23.21	24.00
	DFT-s-OFDM QPSK	1	1	23.91	23.98	23.78	25.00
	DFT-s-OFDM 16QAM	1	1	22.67	22.65	22.69	24.00
	DFT-s-OFDM 64QAM	1	1	21.23	21.17	21.18	22.50
	DFT-s-OFDM	1	1	19.47	19.85	19.99	20.50
	CP-OFDM QPSK	1	1	22.38	22.61	22.19	23.50
	CP-OFDM 16QAM	1	1	22.46	22.15	22.10	23.00
	CP-OFDM 64QAM	1	1	20.48	20.44	20.45	21.50
	CP-OFDM 256QAM	1	1	17.19	17.16	17.28	18.50

5G N5-State 6 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.68	24.07	23.71	25.00
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.82	23.80	23.81	25.00
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.97	24.07	23.90	25.00
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	24.07	24.02	24.02	25.00
		1	53	24.16	24.31	24.24	25.00
		1	104	23.86	24.03	23.98	25.00
	DFT-s-OFDM BPSK	50	0	23.16	23.24	22.98	24.00
		50	28	23.31	23.42	23.19	24.00
		50	56	23.20	23.35	22.87	24.00
	DFT-s-OFDM BPSK	100	0	23.30	23.44	23.21	24.00
	DFT-s-OFDM QPSK	1	1	23.91	23.98	23.78	25.00
	DFT-s-OFDM 16QAM	1	1	22.67	22.65	22.69	24.00
	DFT-s-OFDM 64QAM	1	1	21.23	21.17	21.18	22.50
	DFT-s-OFDM	1	1	19.47	19.85	19.99	20.50
	CP-OFDM QPSK	1	1	22.38	22.61	22.19	23.50
	CP-OFDM 16QAM	1	1	22.46	22.15	22.10	23.00
	CP-OFDM 64QAM	1	1	20.48	20.44	20.45	21.50
	CP-OFDM 256QAM	1	1	17.19	17.16	17.28	18.50

8.5.2 NR Band7 Output Power

5G N7-State 1 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	16.48	16.63	16.44	17.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	16.51	16.65	16.57	17.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	16.63	16.55	16.47	17.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	16.63	16.77	16.47	17.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	16.56	16.78	16.59	17.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	16.60	16.55	16.57	17.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	16.58	16.70	16.59	17.50
		1	135	16.48	16.56	16.54	17.50
		1	268	16.56	16.69	16.55	17.50
	DFT-s-OFDM BPSK	135	0	16.61	16.73	16.64	17.50
		135	68	16.50	16.58	16.48	17.50
		135	135	16.56	16.70	16.59	17.50
	DFT-s-OFDM BPSK	270	0	16.57	16.69	16.49	17.50
	DFT-s-OFDM QPSK	1	1	16.50	16.75	16.56	17.50
	DFT-s-OFDM 16QAM	1	1	16.51	16.73	16.44	17.50
	DFT-s-OFDM 64QAM	1	1	16.40	16.65	16.66	17.50
	DFT-s-OFDM	1	1	16.56	16.57	16.57	17.50
	CP-OFDM QPSK	1	1	16.50	16.53	16.51	17.50
	CP-OFDM 16QAM	1	1	16.50	16.58	16.42	17.50
	CP-OFDM 64QAM	1	1	16.46	16.55	16.49	17.50
	CP-OFDM 256QAM	1	1	16.53	16.58	16.39	17.50

5G N7-State 2 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	15.58	15.78	15.61	16.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	15.55	15.84	15.67	16.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	15.58	15.78	15.54	16.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	15.46	15.87	15.65	16.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	15.46	15.73	15.64	16.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	15.63	15.73	15.62	16.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	15.58	15.84	15.59	16.50
		1	135	15.48	15.62	15.54	16.50
		1	268	15.56	15.78	15.55	16.50
	DFT-s-OFDM BPSK	135	0	15.79	15.89	15.64	16.50
		135	68	15.68	15.68	15.52	16.50
		135	135	15.74	15.87	15.59	16.50
	DFT-s-OFDM BPSK	270	0	15.92	16.07	15.99	16.50
	DFT-s-OFDM QPSK	1	1	15.60	15.86	15.43	16.50
	DFT-s-OFDM 16QAM	1	1	15.55	15.68	15.53	16.50
	DFT-s-OFDM 64QAM	1	1	15.66	15.86	15.47	16.50
	DFT-s-OFDM	1	1	15.66	15.90	15.61	16.50
	CP-OFDM QPSK	1	1	15.52	15.78	15.62	16.50
	CP-OFDM 16QAM	1	1	15.47	15.68	15.50	16.50
	CP-OFDM 64QAM	1	1	15.49	15.74	15.51	16.50
	CP-OFDM 256QAM	1	1	15.55	15.67	15.47	16.50

5G N7-State 3 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	15.58	15.78	15.61	16.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	15.55	15.84	15.67	16.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	15.58	15.78	15.54	16.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	15.46	15.87	15.65	16.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	15.46	15.73	15.64	16.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	15.63	15.73	15.62	16.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	15.58	15.84	15.59	16.50
		1	135	15.48	15.62	15.54	16.50
		1	268	15.56	15.78	15.55	16.50
	DFT-s-OFDM BPSK	135	0	15.79	15.89	15.64	16.50
		135	68	15.68	15.68	15.52	16.50
		135	135	15.74	15.87	15.59	16.50
	DFT-s-OFDM BPSK	270	0	15.92	16.07	15.99	16.50
	DFT-s-OFDM QPSK	1	1	15.60	15.86	15.43	16.50
	DFT-s-OFDM 16QAM	1	1	15.55	15.68	15.53	16.50
	DFT-s-OFDM 64QAM	1	1	15.66	15.86	15.47	16.50
	DFT-s-OFDM	1	1	15.66	15.90	15.61	16.50
	CP-OFDM QPSK	1	1	15.52	15.78	15.62	16.50
	CP-OFDM 16QAM	1	1	15.47	15.68	15.50	16.50
	CP-OFDM 64QAM	1	1	15.49	15.74	15.51	16.50
	CP-OFDM 256QAM	1	1	15.55	15.67	15.47	16.50

5G N7-State 4 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	21.30	21.15	21.24	22.00
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	21.17	21.19	21.09	22.00
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	21.27	21.24	21.22	22.00
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	21.11	21.00	21.18	22.00
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	21.09	21.02	21.24	22.00
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	21.32	21.23	21.09	22.00
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	21.19	21.30	21.26	22.00
		1	135	21.19	21.15	21.13	22.00
		1	268	21.05	21.24	21.20	22.00
	DFT-s-OFDM BPSK	135	0	21.22	21.35	21.14	22.00
		135	68	21.18	21.16	21.18	22.00
		135	135	21.30	21.26	21.22	22.00
	DFT-s-OFDM BPSK	270	0	21.18	21.24	21.16	22.00
	DFT-s-OFDM QPSK	1	1	21.26	21.37	21.24	22.00
	DFT-s-OFDM 16QAM	1	1	21.17	21.19	21.08	22.00
	DFT-s-OFDM 64QAM	1	1	21.03	20.97	20.97	22.00
	DFT-s-OFDM	1	1	19.36	19.38	19.30	20.00
	CP-OFDM QPSK	1	1	21.41	21.30	21.28	22.00
	CP-OFDM 16QAM	1	1	21.26	21.24	21.18	22.00
	CP-OFDM 64QAM	1	1	20.21	20.23	20.11	21.00
	CP-OFDM 256QAM	1	1	16.70	16.63	16.71	18.00

5G N7-State 5 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.42	19.42	19.38	20.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.56	19.70	19.36	20.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.66	19.46	19.44	20.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	19.28	19.21	19.34	20.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	19.26	19.34	19.48	20.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	19.48	19.44	19.34	20.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	19.56	19.64	19.58	20.50
		1	135	19.36	19.54	19.52	20.50
		1	268	19.59	19.49	19.55	20.50
	DFT-s-OFDM BPSK	135	0	19.69	19.71	19.65	20.50
		135	68	19.54	19.66	19.46	20.50
		135	135	19.50	19.58	19.38	20.50
	DFT-s-OFDM BPSK	270	0	19.62	19.64	19.50	20.50
	DFT-s-OFDM QPSK	1	1	19.54	19.56	19.60	20.50
	DFT-s-OFDM 16QAM	1	1	18.96	19.13	18.92	20.50
	DFT-s-OFDM 64QAM	1	1	19.04	19.23	19.15	20.50
	DFT-s-OFDM	1	1	19.41	19.45	19.43	20.00
	CP-OFDM QPSK	1	1	18.99	19.12	19.06	20.50
	CP-OFDM 16QAM	1	1	19.22	19.24	19.11	20.50
	CP-OFDM 64QAM	1	1	19.11	19.26	19.07	20.50
	CP-OFDM 256QAM	1	1	17.02	16.95	17.03	18.00

5G N7-State 6 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.42	19.42	19.38	20.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.56	19.70	19.36	20.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.66	19.46	19.44	20.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	19.28	19.21	19.34	20.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	19.26	19.34	19.48	20.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	19.48	19.44	19.34	20.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	19.56	19.64	19.58	20.50
		1	135	19.36	19.54	19.52	20.50
		1	268	19.59	19.49	19.55	20.50
	DFT-s-OFDM BPSK	135	0	19.69	19.71	19.65	20.50
		135	68	19.54	19.66	19.46	20.50
		135	135	19.50	19.58	19.38	20.50
	DFT-s-OFDM BPSK	270	0	19.62	19.64	19.50	20.50
	DFT-s-OFDM QPSK	1	1	19.54	19.56	19.60	20.50
	DFT-s-OFDM 16QAM	1	1	18.96	19.13	18.92	20.50
	DFT-s-OFDM 64QAM	1	1	19.04	19.23	19.15	20.50
	DFT-s-OFDM	1	1	19.41	19.45	19.43	20.00
	CP-OFDM QPSK	1	1	18.99	19.12	19.06	20.50
	CP-OFDM 16QAM	1	1	19.22	19.24	19.11	20.50
	CP-OFDM 64QAM	1	1	19.11	19.26	19.07	20.50
	CP-OFDM 256QAM	1	1	17.02	16.95	17.03	18.00

5G N7-State 1 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	14.56	14.47	14.56	15.00
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	14.53	14.44	14.65	15.00
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	14.43	14.50	14.65	15.00
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	14.33	14.38	14.52	15.00
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	14.43	14.43	14.61	15.00
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	14.44	14.37	14.52	15.00
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	14.52	14.59	14.53	15.00
		1	135	14.37	14.47	14.43	15.00
		1	268	14.51	14.52	14.40	15.00
	DFT-s-OFDM BPSK	135	0	14.52	14.56	14.50	15.00
		135	68	14.58	14.63	14.59	15.00
		135	135	14.41	14.45	14.33	15.00
	DFT-s-OFDM BPSK	270	0	14.58	14.62	14.55	15.00
	DFT-s-OFDM QPSK	1	1	14.42	14.65	14.63	15.00
	DFT-s-OFDM 16QAM	1	1	14.53	14.60	14.67	15.00
	DFT-s-OFDM 64QAM	1	1	14.43	14.49	14.69	15.00
	DFT-s-OFDM	1	1	14.49	14.43	14.57	15.00
	CP-OFDM QPSK	1	1	14.52	14.66	14.65	15.00
	CP-OFDM 16QAM	1	1	14.48	14.47	14.54	15.00
	CP-OFDM 64QAM	1	1	14.58	14.50	14.70	15.00
	CP-OFDM 256QAM	1	1	14.58	14.56	14.53	15.00

5G N7-State 2 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	12.94	13.07	12.96	13.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	13.05	13.13	13.15	13.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	12.88	13.19	13.08	13.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	12.78	13.04	12.98	13.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	12.83	13.11	12.94	13.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	12.88	13.16	12.95	13.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	13.02	13.12	13.08	13.50
		1	135	12.78	13.08	13.01	13.50
		1	268	12.90	13.09	12.98	13.50
	DFT-s-OFDM BPSK	135	0	13.05	13.10	13.07	13.50
		135	68	13.03	13.06	13.04	13.50
		135	135	13.00	13.04	12.87	13.50
	DFT-s-OFDM BPSK	270	0	13.08	13.19	13.01	13.50
	DFT-s-OFDM QPSK	1	1	12.78	13.29	12.70	13.50
	DFT-s-OFDM 16QAM	1	1	13.05	13.27	13.20	13.50
	DFT-s-OFDM 64QAM	1	1	13.06	12.97	13.24	13.50
	DFT-s-OFDM	1	1	13.05	13.02	13.09	13.50
	CP-OFDM QPSK	1	1	13.00	13.26	13.12	13.50
	CP-OFDM 16QAM	1	1	13.09	13.06	13.14	13.50
	CP-OFDM 64QAM	1	1	13.13	13.11	13.17	13.50
	CP-OFDM 256QAM	1	1	13.09	13.17	13.05	13.50

5G N7-State 3 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	12.94	13.07	12.96	13.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	13.05	13.13	13.15	13.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	12.88	13.19	13.08	13.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	12.78	13.04	12.98	13.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	12.83	13.11	12.94	13.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	12.88	13.16	12.95	13.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	13.02	13.12	13.08	13.50
		1	135	12.78	13.08	13.01	13.50
		1	268	12.90	13.09	12.98	13.50
	DFT-s-OFDM BPSK	135	0	13.05	13.10	13.07	13.50
		135	68	13.03	13.06	13.04	13.50
		135	135	13.00	13.04	12.87	13.50
	DFT-s-OFDM BPSK	270	0	13.08	13.19	13.01	13.50
	DFT-s-OFDM QPSK	1	1	12.78	13.29	12.70	13.50
	DFT-s-OFDM 16QAM	1	1	13.05	13.27	13.20	13.50
	DFT-s-OFDM 64QAM	1	1	13.06	12.97	13.24	13.50
	DFT-s-OFDM	1	1	13.05	13.02	13.09	13.50
	CP-OFDM QPSK	1	1	13.00	13.26	13.12	13.50
	CP-OFDM 16QAM	1	1	13.09	13.06	13.14	13.50
	CP-OFDM 64QAM	1	1	13.13	13.11	13.17	13.50
	CP-OFDM 256QAM	1	1	13.09	13.17	13.05	13.50

5G N7-State 4 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	18.40	18.56	18.30	19.00
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	18.23	18.53	18.39	19.00
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	18.36	18.58	18.39	19.00
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	18.21	18.62	18.32	19.00
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	18.43	18.67	18.41	19.00
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	18.25	18.39	18.21	19.00
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	18.38	18.49	18.45	19.00
		1	135	18.30	18.41	18.32	19.00
		1	268	18.31	18.38	18.45	19.00
	DFT-s-OFDM BPSK	135	0	18.39	18.50	18.43	19.00
		135	68	18.27	18.42	18.39	19.00
		135	135	18.29	18.38	18.34	19.00
	DFT-s-OFDM BPSK	270	0	18.49	18.58	18.45	19.00
	DFT-s-OFDM QPSK	1	1	18.23	18.36	18.30	19.00
	DFT-s-OFDM 16QAM	1	1	18.37	18.43	18.26	19.00
	DFT-s-OFDM 64QAM	1	1	18.33	18.40	18.31	19.00
	DFT-s-OFDM	1	1	18.45	18.36	18.18	19.00
	CP-OFDM QPSK	1	1	18.65	18.58	18.65	19.00
	CP-OFDM 16QAM	1	1	18.53	18.53	18.40	19.00
	CP-OFDM 64QAM	1	1	18.39	18.58	18.49	19.00
	CP-OFDM 256QAM	1	1	16.97	16.95	16.87	18.00

5G N7-State 5 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	16.48	16.63	16.44	17.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	16.51	16.65	16.57	17.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	16.63	16.55	16.47	17.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	16.63	16.77	16.47	17.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	16.56	16.78	16.59	17.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	16.60	16.55	16.57	17.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	16.58	16.70	16.59	17.50
		1	135	16.48	16.56	16.54	17.50
		1	268	16.56	16.69	16.55	17.50
	DFT-s-OFDM BPSK	135	0	16.61	16.73	16.64	17.50
		135	68	16.50	16.58	16.48	17.50
		135	135	16.56	16.70	16.59	17.50
	DFT-s-OFDM BPSK	270	0	16.57	16.69	16.49	17.50
	DFT-s-OFDM QPSK	1	1	16.50	16.75	16.56	17.50
	DFT-s-OFDM 16QAM	1	1	16.51	16.73	16.44	17.50
	DFT-s-OFDM 64QAM	1	1	16.40	16.65	16.66	17.50
	DFT-s-OFDM	1	1	16.56	16.57	16.57	17.50
	CP-OFDM QPSK	1	1	16.50	16.53	16.51	17.50
	CP-OFDM 16QAM	1	1	16.50	16.58	16.42	17.50
	CP-OFDM 64QAM	1	1	16.46	16.55	16.49	17.50
	CP-OFDM 256QAM	1	1	16.53	16.58	16.39	17.50

5G N7-State 6 -Ant.1(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	16.48	16.63	16.44	17.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	16.51	16.65	16.57	17.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	16.63	16.55	16.47	17.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	16.63	16.77	16.47	17.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	16.56	16.78	16.59	17.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	16.60	16.55	16.57	17.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	16.58	16.70	16.59	17.50
		1	135	16.48	16.56	16.54	17.50
		1	268	16.56	16.69	16.55	17.50
	DFT-s-OFDM BPSK	135	0	16.61	16.73	16.64	17.50
		135	68	16.50	16.58	16.48	17.50
		135	135	16.56	16.70	16.59	17.50
	DFT-s-OFDM BPSK	270	0	16.57	16.69	16.49	17.50
	DFT-s-OFDM QPSK	1	1	16.50	16.75	16.56	17.50
	DFT-s-OFDM 16QAM	1	1	16.51	16.73	16.44	17.50
	DFT-s-OFDM 64QAM	1	1	16.40	16.65	16.66	17.50
	DFT-s-OFDM	1	1	16.56	16.57	16.57	17.50
	CP-OFDM QPSK	1	1	16.50	16.53	16.51	17.50
	CP-OFDM 16QAM	1	1	16.50	16.58	16.42	17.50
	CP-OFDM 64QAM	1	1	16.46	16.55	16.49	17.50
	CP-OFDM 256QAM	1	1	16.53	16.58	16.39	17.50

8.5.2 NR Band7 Output Power

5G N7-State 1 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	23.97	23.92	23.95	24.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	23.75	23.95	24.00	24.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	24.02	23.80	23.66	24.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	23.75	23.71	23.73	24.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	24.02	23.87	23.85	24.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	23.80	23.73	23.97	24.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	23.92	23.97	23.90	24.50
		1	135	23.87	23.91	23.77	24.50
		1	268	23.62	23.74	23.53	24.50
	DFT-s-OFDM BPSK	135	0	22.54	22.76	22.65	23.50
		135	68	22.67	22.81	22.79	23.50
		135	135	22.62	22.64	22.59	23.50
	DFT-s-OFDM BPSK	270	0	22.63	22.82	22.54	23.50
	DFT-s-OFDM QPSK	1	1	23.73	23.92	23.99	24.50
	DFT-s-OFDM 16QAM	1	1	22.51	22.49	22.58	23.50
	DFT-s-OFDM 64QAM	1	1	21.13	21.02	20.91	22.00
	DFT-s-OFDM	1	1	19.62	19.62	19.62	20.00
	CP-OFDM QPSK	1	1	22.28	22.26	22.33	23.00
	CP-OFDM 16QAM	1	1	22.09	22.02	21.91	22.50
	CP-OFDM 64QAM	1	1	20.18	20.34	20.44	21.00
	CP-OFDM 256QAM	1	1	17.02	17.17	17.02	18.00

5G N7-State 2 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	23.97	23.92	23.95	24.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	23.75	23.95	24.00	24.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	24.02	23.80	23.66	24.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	23.75	23.71	23.73	24.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	24.02	23.87	23.85	24.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	23.80	23.73	23.97	24.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	23.92	23.97	23.90	24.50
		1	135	23.87	23.91	23.77	24.50
		1	268	23.62	23.74	23.53	24.50
	DFT-s-OFDM BPSK	135	0	22.54	22.76	22.65	23.50
		135	68	22.67	22.81	22.79	23.50
		135	135	22.62	22.64	22.59	23.50
	DFT-s-OFDM BPSK	270	0	22.63	22.82	22.54	23.50
	DFT-s-OFDM QPSK	1	1	23.73	23.92	23.99	24.50
	DFT-s-OFDM 16QAM	1	1	22.51	22.49	22.58	23.50
	DFT-s-OFDM 64QAM	1	1	21.13	21.02	20.91	22.00
	DFT-s-OFDM	1	1	19.62	19.62	19.62	20.00
	CP-OFDM QPSK	1	1	22.28	22.26	22.33	23.00
	CP-OFDM 16QAM	1	1	22.09	22.02	21.91	22.50
	CP-OFDM 64QAM	1	1	20.18	20.34	20.44	21.00
	CP-OFDM 256QAM	1	1	17.02	17.17	17.02	18.00

5G N7-State 3 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	23.97	23.92	23.95	24.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	23.75	23.95	24.00	24.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	24.02	23.80	23.66	24.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	23.75	23.71	23.73	24.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	24.02	23.87	23.85	24.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	23.80	23.73	23.97	24.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	23.92	23.97	23.90	24.50
		1	135	23.87	23.91	23.77	24.50
		1	268	23.62	23.74	23.53	24.50
	DFT-s-OFDM BPSK	135	0	22.54	22.76	22.65	23.50
		135	68	22.67	22.81	22.79	23.50
		135	135	22.62	22.64	22.59	23.50
	DFT-s-OFDM BPSK	270	0	22.63	22.82	22.54	23.50
	DFT-s-OFDM QPSK	1	1	23.73	23.92	23.99	24.50
	DFT-s-OFDM 16QAM	1	1	22.51	22.49	22.58	23.50
	DFT-s-OFDM 64QAM	1	1	21.13	21.02	20.91	22.00
	DFT-s-OFDM	1	1	19.62	19.62	19.62	20.00
	CP-OFDM QPSK	1	1	22.28	22.26	22.33	23.00
	CP-OFDM 16QAM	1	1	22.09	22.02	21.91	22.50
	CP-OFDM 64QAM	1	1	20.18	20.34	20.44	21.00
	CP-OFDM 256QAM	1	1	17.02	17.17	17.02	18.00

5G N7-State 4 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.26	22.39	22.20	23.00
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.21	22.45	22.38	23.00
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.19	22.41	22.05	23.00
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	22.51	22.44	22.22	23.00
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	22.42	22.24	22.18	23.00
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	22.51	22.22	22.36	23.00
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	22.40	22.42	22.40	23.00
		1	135	22.37	22.41	22.27	23.00
		1	268	22.12	22.24	22.03	23.00
	DFT-s-OFDM BPSK	135	0	22.37	22.46	22.35	23.00
		135	68	22.28	22.31	22.28	23.00
		135	135	22.26	22.44	22.29	23.00
	DFT-s-OFDM BPSK	270	0	22.63	22.72	22.54	23.00
	DFT-s-OFDM QPSK	1	1	22.44	22.53	22.15	23.00
	DFT-s-OFDM 16QAM	1	1	22.31	22.42	22.36	23.00
	DFT-s-OFDM 64QAM	1	1	21.09	20.96	20.99	22.00
	DFT-s-OFDM	1	1	19.56	19.60	19.54	20.00
	CP-OFDM QPSK	1	1	22.30	22.36	22.24	23.00
	CP-OFDM 16QAM	1	1	22.02	21.82	21.95	22.50
	CP-OFDM 64QAM	1	1	20.26	20.24	20.54	21.00
	CP-OFDM 256QAM	1	1	17.04	17.14	16.92	18.00

5G N7-State 5 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	20.65	20.74	20.68	21.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	20.82	20.88	20.76	21.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	20.68	20.90	20.70	21.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	20.63	20.92	20.55	21.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	20.59	20.82	20.80	21.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	20.76	20.84	20.80	21.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	20.80	20.82	20.74	21.50
		1	135	20.63	20.80	20.61	21.50
		1	268	20.73	20.71	20.65	21.50
	DFT-s-OFDM BPSK	135	0	20.72	20.64	20.68	21.50
		135	68	20.77	20.85	20.75	21.50
		135	135	20.58	20.77	20.70	21.50
	DFT-s-OFDM BPSK	270	0	20.68	20.83	20.79	21.50
	DFT-s-OFDM QPSK	1	1	20.77	20.70	20.53	21.50
	DFT-s-OFDM 16QAM	1	1	20.47	20.54	20.62	21.50
	DFT-s-OFDM 64QAM	1	1	20.84	20.32	20.74	21.50
	DFT-s-OFDM	1	1	19.38	19.54	19.64	20.00
	CP-OFDM QPSK	1	1	20.52	20.66	20.64	21.50
	CP-OFDM 16QAM	1	1	20.42	20.73	20.55	21.50
	CP-OFDM 64QAM	1	1	20.26	20.24	20.68	21.00
	CP-OFDM 256QAM	1	1	17.07	17.00	16.91	18.00

5G N7-State 6 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	20.65	20.74	20.68	21.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	20.82	20.88	20.76	21.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	20.68	20.90	20.70	21.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	20.63	20.92	20.55	21.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	20.59	20.82	20.80	21.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	20.76	20.84	20.80	21.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	20.80	20.82	20.74	21.50
		1	135	20.63	20.80	20.61	21.50
		1	268	20.73	20.71	20.65	21.50
	DFT-s-OFDM BPSK	135	0	20.72	20.64	20.68	21.50
		135	68	20.77	20.85	20.75	21.50
		135	135	20.58	20.77	20.70	21.50
	DFT-s-OFDM BPSK	270	0	20.68	20.83	20.79	21.50
	DFT-s-OFDM QPSK	1	1	20.77	20.70	20.53	21.50
	DFT-s-OFDM 16QAM	1	1	20.47	20.54	20.62	21.50
	DFT-s-OFDM 64QAM	1	1	20.84	20.32	20.74	21.50
	DFT-s-OFDM	1	1	19.38	19.54	19.64	20.00
	CP-OFDM QPSK	1	1	20.52	20.66	20.64	21.50
	CP-OFDM 16QAM	1	1	20.42	20.73	20.55	21.50
	CP-OFDM 64QAM	1	1	20.26	20.24	20.68	21.00
	CP-OFDM 256QAM	1	1	17.07	17.00	16.91	18.00

5G N7-State 1 -Ant.0(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	23.97	23.92	23.95	24.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	23.75	23.95	24.00	24.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	24.02	23.80	23.66	24.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	23.75	23.71	23.73	24.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	24.02	23.87	23.85	24.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	23.80	23.73	23.97	24.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	23.92	23.97	23.90	24.50
		1	135	23.87	23.91	23.77	24.50
		1	268	23.62	23.74	23.53	24.50
	DFT-s-OFDM BPSK	135	0	22.54	22.76	22.65	23.50
		135	68	22.67	22.81	22.79	23.50
		135	135	22.62	22.64	22.59	23.50
	DFT-s-OFDM BPSK	270	0	22.63	22.82	22.54	23.50
	DFT-s-OFDM QPSK	1	1	23.73	23.92	23.99	24.50
	DFT-s-OFDM 16QAM	1	1	22.51	22.49	22.58	23.50
	DFT-s-OFDM 64QAM	1	1	21.13	21.02	20.91	22.00
	DFT-s-OFDM	1	1	19.62	19.62	19.62	20.00
	CP-OFDM QPSK	1	1	22.28	22.26	22.33	23.00
	CP-OFDM 16QAM	1	1	22.09	22.02	21.91	22.50
	CP-OFDM 64QAM	1	1	20.18	20.34	20.44	21.00
	CP-OFDM 256QAM	1	1	17.02	17.17	17.02	18.00

5G N7-State 2 -Ant.0(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	23.97	23.92	23.95	24.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	23.75	23.95	24.00	24.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	24.02	23.80	23.66	24.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	23.75	23.71	23.73	24.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	24.02	23.87	23.85	24.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	23.80	23.73	23.97	24.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	23.92	23.97	23.90	24.50
		1	135	23.87	23.91	23.77	24.50
		1	268	23.62	23.74	23.53	24.50
	DFT-s-OFDM BPSK	135	0	22.54	22.76	22.65	23.50
		135	68	22.67	22.81	22.79	23.50
		135	135	22.62	22.64	22.59	23.50
	DFT-s-OFDM BPSK	270	0	22.63	22.82	22.54	23.50
	DFT-s-OFDM QPSK	1	1	23.73	23.92	23.99	24.50
	DFT-s-OFDM 16QAM	1	1	22.51	22.49	22.58	23.50
	DFT-s-OFDM 64QAM	1	1	21.13	21.02	20.91	22.00
	DFT-s-OFDM	1	1	19.62	19.62	19.62	20.00
	CP-OFDM QPSK	1	1	22.28	22.26	22.33	23.00
	CP-OFDM 16QAM	1	1	22.09	22.02	21.91	22.50
	CP-OFDM 64QAM	1	1	20.18	20.34	20.44	21.00
	CP-OFDM 256QAM	1	1	17.02	17.17	17.02	18.00

5G N7-State 3 -Ant.0(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	23.97	23.92	23.95	24.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	23.75	23.95	24.00	24.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	24.02	23.80	23.66	24.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	23.75	23.71	23.73	24.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	24.02	23.87	23.85	24.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	23.80	23.73	23.97	24.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	23.92	23.97	23.90	24.50
		1	135	23.87	23.91	23.77	24.50
		1	268	23.62	23.74	23.53	24.50
	DFT-s-OFDM BPSK	135	0	22.54	22.76	22.65	23.50
		135	68	22.67	22.81	22.79	23.50
		135	135	22.62	22.64	22.59	23.50
	DFT-s-OFDM BPSK	270	0	22.63	22.82	22.54	23.50
	DFT-s-OFDM QPSK	1	1	23.73	23.92	23.99	24.50
	DFT-s-OFDM 16QAM	1	1	22.51	22.49	22.58	23.50
	DFT-s-OFDM 64QAM	1	1	21.13	21.02	20.91	22.00
	DFT-s-OFDM	1	1	19.62	19.62	19.62	20.00
	CP-OFDM QPSK	1	1	22.28	22.26	22.33	23.00
	CP-OFDM 16QAM	1	1	22.09	22.02	21.91	22.50
	CP-OFDM 64QAM	1	1	20.18	20.34	20.44	21.00
	CP-OFDM 256QAM	1	1	17.02	17.17	17.02	18.00

5G N7-State 4 -Ant.0(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.15	19.30	19.28	20.00
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.34	19.38	19.10	20.00
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.21	19.40	19.24	20.00
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	19.30	19.11	19.03	20.00
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	19.17	19.22	19.30	20.00
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	19.19	19.13	19.07	20.00
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	19.36	19.32	19.22	20.00
		1	135	19.49	19.53	19.36	20.00
		1	268	19.31	19.21	19.15	20.00
	DFT-s-OFDM BPSK	135	0	19.28	19.36	19.15	20.00
		135	68	19.39	19.50	19.29	20.00
		135	135	19.15	19.27	19.21	20.00
	DFT-s-OFDM BPSK	270	0	19.22	19.33	19.23	20.00
	DFT-s-OFDM QPSK	1	1	19.38	19.28	19.10	20.00
	DFT-s-OFDM 16QAM	1	1	19.40	19.34	19.09	20.00
	DFT-s-OFDM 64QAM	1	1	19.34	19.20	19.16	20.00
	DFT-s-OFDM	1	1	19.38	19.20	19.32	20.00
	CP-OFDM QPSK	1	1	19.17	19.24	19.18	20.00
	CP-OFDM 16QAM	1	1	19.46	19.17	19.01	20.00
	CP-OFDM 64QAM	1	1	19.22	19.22	19.12	20.00
	CP-OFDM 256QAM	1	1	17.07	17.00	16.91	18.00

5G N7-State 5 -Ant.0(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.57	17.71	17.54	18.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.62	17.60	17.46	18.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.48	17.55	17.46	18.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	17.57	17.51	17.48	18.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	17.31	17.41	17.46	18.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	17.39	17.41	17.46	18.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	17.66	17.62	17.65	18.50
		1	135	17.90	17.92	17.81	18.50
		1	268	17.72	17.64	17.46	18.50
	DFT-s-OFDM BPSK	135	0	17.76	17.79	17.60	18.50
		135	68	17.89	17.95	17.77	18.50
		135	135	17.53	17.63	17.62	18.50
	DFT-s-OFDM BPSK	270	0	17.79	17.88	17.73	18.50
	DFT-s-OFDM QPSK	1	1	17.86	17.69	17.62	18.50
	DFT-s-OFDM 16QAM	1	1	17.88	17.75	17.47	18.50
	DFT-s-OFDM 64QAM	1	1	17.84	17.75	17.52	18.50
	DFT-s-OFDM	1	1	17.72	17.65	17.86	18.50
	CP-OFDM QPSK	1	1	17.60	17.67	17.50	18.50
	CP-OFDM 16QAM	1	1	17.87	17.56	17.35	18.50
	CP-OFDM 64QAM	1	1	17.54	17.68	17.69	18.50
	CP-OFDM 256QAM	1	1	16.98	16.92	16.93	18.00

5G N7-State 6 -Ant.0(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.57	17.71	17.54	18.50
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.62	17.60	17.46	18.50
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.48	17.55	17.46	18.50
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	17.57	17.51	17.48	18.50
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	17.31	17.41	17.46	18.50
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	17.39	17.41	17.46	18.50
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	17.66	17.62	17.65	18.50
		1	135	17.90	17.92	17.81	18.50
		1	268	17.72	17.64	17.46	18.50
	DFT-s-OFDM BPSK	135	0	17.76	17.79	17.60	18.50
		135	68	17.89	17.95	17.77	18.50
		135	135	17.53	17.63	17.62	18.50
	DFT-s-OFDM BPSK	270	0	17.79	17.88	17.73	18.50
	DFT-s-OFDM QPSK	1	1	17.86	17.69	17.62	18.50
	DFT-s-OFDM 16QAM	1	1	17.88	17.75	17.47	18.50
	DFT-s-OFDM 64QAM	1	1	17.84	17.75	17.52	18.50
	DFT-s-OFDM	1	1	17.72	17.65	17.86	18.50
	CP-OFDM QPSK	1	1	17.60	17.67	17.50	18.50
	CP-OFDM 16QAM	1	1	17.87	17.56	17.35	18.50
	CP-OFDM 64QAM	1	1	17.54	17.68	17.69	18.50
	CP-OFDM 256QAM	1	1	16.98	16.92	16.93	18.00

8.5.2 NR Band7 Output Power

5G N7-State 1 -Ant.4							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	20.27	20.17	20.05	21.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	20.25	20.23	20.07	21.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	20.07	20.31	20.05	21.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	20.03	20.39	19.99	21.20
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	20.03	20.13	19.87	21.20
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	20.13	20.27	19.87	21.20
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	20.29	20.21	20.17	21.20
		1	135	20.34	20.36	20.32	21.20
		1	268	20.21	20.31	20.23	21.20
	DFT-s-OFDM BPSK	135	0	20.21	20.13	20.01	21.20
		135	68	20.34	20.39	20.37	21.20
		135	135	20.13	20.31	20.09	21.20
	DFT-s-OFDM BPSK	270	0	20.12	20.16	20.10	21.20
	DFT-s-OFDM QPSK	1	1	20.25	20.11	20.15	21.20
	DFT-s-OFDM 16QAM	1	1	20.23	20.41	20.19	21.20
	DFT-s-OFDM 64QAM	1	1	18.28	18.47	18.48	19.70
	DFT-s-OFDM	1	1	16.98	17.13	16.89	17.70
	CP-OFDM QPSK	1	1	19.77	19.67	19.44	20.70
	CP-OFDM 16QAM	1	1	19.77	19.46	19.20	20.20
	CP-OFDM 64QAM	1	1	17.99	17.91	17.69	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 2 -Ant.4							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.05	19.29	19.20	20.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.14	19.16	19.47	20.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.18	19.23	19.22	20.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	18.93	19.20	18.98	20.20
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	18.88	19.16	19.00	20.20
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	18.93	19.18	19.06	20.20
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	18.99	19.20	19.08	20.20
		1	135	19.18	19.32	19.22	20.20
		1	268	19.09	19.24	19.18	20.20
	DFT-s-OFDM BPSK	135	0	19.19	19.19	18.98	20.20
		135	68	19.16	19.35	19.29	20.20
		135	135	19.26	19.26	19.05	20.20
	DFT-s-OFDM BPSK	270	0	19.29	19.33	19.28	20.20
	DFT-s-OFDM QPSK	1	1	19.03	19.16	19.13	20.20
	DFT-s-OFDM 16QAM	1	1	18.88	19.03	19.36	20.20
	DFT-s-OFDM 64QAM	1	1	19.03	19.26	19.19	19.70
	DFT-s-OFDM	1	1	17.43	17.54	17.48	17.70
	CP-OFDM QPSK	1	1	19.12	19.33	19.26	20.20
	CP-OFDM 16QAM	1	1	19.16	19.31	19.10	20.20
	CP-OFDM 64QAM	1	1	18.31	18.47	18.43	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 3 -Ant.4							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.05	19.29	19.20	20.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.14	19.16	19.47	20.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.18	19.23	19.22	20.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	18.93	19.20	18.98	20.20
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	18.88	19.16	19.00	20.20
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	18.93	19.18	19.06	20.20
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	18.99	19.20	19.08	20.20
		1	135	19.18	19.32	19.22	20.20
		1	268	19.09	19.24	19.18	20.20
	DFT-s-OFDM BPSK	135	0	19.19	19.19	18.98	20.20
		135	68	19.16	19.35	19.29	20.20
		135	135	19.26	19.26	19.05	20.20
	DFT-s-OFDM BPSK	270	0	19.29	19.33	19.28	20.20
	DFT-s-OFDM QPSK	1	1	19.03	19.16	19.13	20.20
	DFT-s-OFDM 16QAM	1	1	18.88	19.03	19.36	20.20
	DFT-s-OFDM 64QAM	1	1	19.03	19.26	19.19	19.70
	DFT-s-OFDM	1	1	17.43	17.54	17.48	17.70
	CP-OFDM QPSK	1	1	19.12	19.33	19.26	20.20
	CP-OFDM 16QAM	1	1	19.16	19.31	19.10	20.20
	CP-OFDM 64QAM	1	1	18.31	18.47	18.43	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 4 -Ant.4							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	20.27	20.17	20.05	21.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	20.25	20.23	20.07	21.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	20.07	20.31	20.05	21.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	20.03	20.39	19.99	21.20
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	20.03	20.13	19.87	21.20
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	20.13	20.27	19.87	21.20
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	20.29	20.21	20.17	21.20
		1	135	20.34	20.36	20.32	21.20
		1	268	20.21	20.31	20.23	21.20
	DFT-s-OFDM BPSK	135	0	20.21	20.13	20.01	21.20
		135	68	20.34	20.39	20.37	21.20
		135	135	20.13	20.31	20.09	21.20
	DFT-s-OFDM BPSK	270	0	20.12	20.16	20.10	21.20
	DFT-s-OFDM QPSK	1	1	20.25	20.11	20.15	21.20
	DFT-s-OFDM 16QAM	1	1	20.23	20.41	20.19	21.20
	DFT-s-OFDM 64QAM	1	1	18.28	18.47	18.48	19.70
	DFT-s-OFDM	1	1	16.98	17.13	16.89	17.70
	CP-OFDM QPSK	1	1	19.77	19.67	19.44	20.70
	CP-OFDM 16QAM	1	1	19.77	19.46	19.20	20.20
	CP-OFDM 64QAM	1	1	17.99	17.91	17.69	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 5 -Ant.4							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.05	19.29	19.20	19.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.14	19.16	19.47	19.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.18	19.23	19.22	19.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	18.93	19.20	18.98	19.70
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	18.88	19.16	19.00	19.70
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	18.93	19.18	19.06	19.70
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	18.99	19.20	19.08	19.70
		1	135	19.18	19.32	19.22	19.70
		1	268	19.09	19.24	19.18	19.70
	DFT-s-OFDM BPSK	135	0	19.19	19.19	18.98	19.70
		135	68	19.16	19.35	19.29	19.70
		135	135	19.26	19.26	19.05	19.70
	DFT-s-OFDM BPSK	270	0	19.29	19.33	19.28	19.70
	DFT-s-OFDM QPSK	1	1	19.03	19.16	19.13	19.70
	DFT-s-OFDM 16QAM	1	1	18.88	19.03	19.36	19.70
	DFT-s-OFDM 64QAM	1	1	19.03	19.26	19.19	19.70
	DFT-s-OFDM	1	1	17.43	17.54	17.48	17.70
	CP-OFDM QPSK	1	1	19.12	19.33	19.26	19.70
	CP-OFDM 16QAM	1	1	19.16	19.31	19.10	19.70
	CP-OFDM 64QAM	1	1	18.31	18.47	18.43	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 6 -Ant.4							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.05	19.29	19.20	19.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.14	19.16	19.47	19.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.18	19.23	19.22	19.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	18.93	19.20	18.98	19.70
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	18.88	19.16	19.00	19.70
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	18.93	19.18	19.06	19.70
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	18.99	19.20	19.08	19.70
		1	135	19.18	19.32	19.22	19.70
		1	268	19.09	19.24	19.18	19.70
	DFT-s-OFDM BPSK	135	0	19.19	19.19	18.98	19.70
		135	68	19.16	19.35	19.29	19.70
		135	135	19.26	19.26	19.05	19.70
	DFT-s-OFDM BPSK	270	0	19.29	19.33	19.28	19.70
	DFT-s-OFDM QPSK	1	1	19.03	19.16	19.13	19.70
	DFT-s-OFDM 16QAM	1	1	18.88	19.03	19.36	19.70
	DFT-s-OFDM 64QAM	1	1	19.03	19.26	19.19	19.70
	DFT-s-OFDM	1	1	17.43	17.54	17.48	17.70
	CP-OFDM QPSK	1	1	19.12	19.33	19.26	19.70
	CP-OFDM 16QAM	1	1	19.16	19.31	19.10	19.70
	CP-OFDM 64QAM	1	1	18.31	18.47	18.43	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 1 -Ant.4(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	20.27	20.17	20.05	21.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	20.25	20.23	20.07	21.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	20.07	20.31	20.05	21.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	20.03	20.39	19.99	21.20
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	20.03	20.13	19.87	21.20
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	20.13	20.27	19.87	21.20
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	20.29	20.21	20.17	21.20
		1	135	20.34	20.36	20.32	21.20
		1	268	20.21	20.31	20.23	21.20
	DFT-s-OFDM BPSK	135	0	20.21	20.13	20.01	21.20
		135	68	20.34	20.39	20.37	21.20
		135	135	20.13	20.31	20.09	21.20
	DFT-s-OFDM BPSK	270	0	20.12	20.16	20.10	21.20
	DFT-s-OFDM QPSK	1	1	20.25	20.11	20.15	21.20
	DFT-s-OFDM 16QAM	1	1	20.23	20.41	20.19	21.20
	DFT-s-OFDM 64QAM	1	1	18.28	18.47	18.48	19.70
	DFT-s-OFDM	1	1	16.98	17.13	16.89	17.70
	CP-OFDM QPSK	1	1	19.77	19.67	19.44	20.70
	CP-OFDM 16QAM	1	1	19.77	19.46	19.20	20.20
	CP-OFDM 64QAM	1	1	17.99	17.91	17.69	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 2 -Ant.4(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.05	19.29	19.20	20.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.14	19.16	19.47	20.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.18	19.23	19.22	20.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	18.93	19.20	18.98	20.20
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	18.88	19.16	19.00	20.20
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	18.93	19.18	19.06	20.20
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	18.99	19.20	19.08	20.20
		1	135	19.18	19.32	19.22	20.20
		1	268	19.09	19.24	19.18	20.20
	DFT-s-OFDM BPSK	135	0	19.19	19.19	18.98	20.20
		135	68	19.16	19.35	19.29	20.20
		135	135	19.26	19.26	19.05	20.20
	DFT-s-OFDM BPSK	270	0	19.29	19.33	19.28	20.20
	DFT-s-OFDM QPSK	1	1	19.03	19.16	19.13	20.20
	DFT-s-OFDM 16QAM	1	1	18.88	19.03	19.36	20.20
	DFT-s-OFDM 64QAM	1	1	19.03	19.26	19.19	19.70
	DFT-s-OFDM	1	1	17.43	17.54	17.48	17.70
	CP-OFDM QPSK	1	1	19.12	19.33	19.26	20.20
	CP-OFDM 16QAM	1	1	19.16	19.31	19.10	20.20
	CP-OFDM 64QAM	1	1	18.31	18.47	18.43	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 3 -Ant.4(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.05	19.29	19.20	20.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.14	19.16	19.47	20.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.18	19.23	19.22	20.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	18.93	19.20	18.98	20.20
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	18.88	19.16	19.00	20.20
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	18.93	19.18	19.06	20.20
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	18.99	19.20	19.08	20.20
		1	135	19.18	19.32	19.22	20.20
		1	268	19.09	19.24	19.18	20.20
	DFT-s-OFDM BPSK	135	0	19.19	19.19	18.98	20.20
		135	68	19.16	19.35	19.29	20.20
		135	135	19.26	19.26	19.05	20.20
	DFT-s-OFDM BPSK	270	0	19.29	19.33	19.28	20.20
	DFT-s-OFDM QPSK	1	1	19.03	19.16	19.13	20.20
	DFT-s-OFDM 16QAM	1	1	18.88	19.03	19.36	20.20
	DFT-s-OFDM 64QAM	1	1	19.03	19.26	19.19	19.70
	DFT-s-OFDM	1	1	17.43	17.54	17.48	17.70
	CP-OFDM QPSK	1	1	19.12	19.33	19.26	20.20
	CP-OFDM 16QAM	1	1	19.16	19.31	19.10	20.20
	CP-OFDM 64QAM	1	1	18.31	18.47	18.43	18.70
	CP-OFDM 256QAM	1	1	14.51	14.61	14.71	15.70

5G N7-State 4 -Ant.4(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	18.50	18.61	18.19	19.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	18.57	18.54	18.39	19.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	18.54	18.58	18.37	19.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	18.44	18.39	18.46	19.20
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	18.70	18.47	18.33	19.20
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	18.54	18.35	18.39	19.20
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	18.63	18.54	18.39	19.20
		1	135	18.72	18.76	18.70	19.20
		1	268	18.63	18.59	18.65	19.20
	DFT-s-OFDM BPSK	135	0	18.46	18.61	18.50	19.20
		135	68	18.72	18.80	18.71	19.20
		135	135	18.68	18.59	18.68	19.20
	DFT-s-OFDM BPSK	270	0	18.70	18.74	18.68	19.20
	DFT-s-OFDM QPSK	1	1	18.54	18.39	18.46	19.20
	DFT-s-OFDM 16QAM	1	1	18.57	18.56	18.30	19.20
	DFT-s-OFDM 64QAM	1	1	18.52	18.60	18.30	19.20
	DFT-s-OFDM	1	1	17.45	17.56	17.43	17.70
	CP-OFDM QPSK	1	1	18.69	18.34	18.48	19.20
	CP-OFDM 16QAM	1	1	18.44	18.37	18.21	19.20
	CP-OFDM 64QAM	1	1	18.31	18.47	18.43	18.70
	CP-OFDM 256QAM	1	1	14.51	14.54	14.67	15.70

5G N7-State 5 -Ant.4(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.17	17.11	16.99	17.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.05	17.15	16.86	17.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.11	17.22	16.87	17.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	17.11	17.01	17.01	17.70
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	17.05	17.13	16.82	17.70
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	17.15	17.29	17.01	17.70
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	17.20	17.20	17.01	17.70
		1	135	17.29	17.38	17.33	17.70
		1	268	17.24	17.24	17.14	17.70
	DFT-s-OFDM BPSK	135	0	17.07	17.19	17.12	17.70
		135	68	17.31	17.36	17.34	17.70
		135	135	17.26	17.26	17.16	17.70
	DFT-s-OFDM BPSK	270	0	17.24	17.33	17.31	17.70
	DFT-s-OFDM QPSK	1	1	17.27	17.29	17.04	17.70
	DFT-s-OFDM 16QAM	1	1	17.29	17.25	16.98	17.70
	DFT-s-OFDM 64QAM	1	1	17.17	17.06	16.87	17.70
	DFT-s-OFDM	1	1	17.13	17.06	17.08	17.70
	CP-OFDM QPSK	1	1	19.12	19.33	19.26	19.70
	CP-OFDM 16QAM	1	1	17.15	17.22	16.99	17.70
	CP-OFDM 64QAM	1	1	17.03	17.10	16.98	17.70
	CP-OFDM 256QAM	1	1	14.55	14.67	14.58	15.70

5G N7-State 6 -Ant.4(NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.17	17.11	16.99	17.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.05	17.15	16.86	17.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.11	17.22	16.87	17.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM	1	1	17.11	17.01	17.01	17.70
Bandwidth (MHz)		Channel		503000	507000	511000	Tune-up power(dB)
		Frequency(MHz)		2515	2535	2555	
30	DFT-s-OFDM	1	1	17.05	17.13	16.82	17.70
Bandwidth (MHz)		Channel		504000	507000	510000	Tune-up power(dB)
		Frequency(MHz)		2520	2535	2550	
40	DFT-s-OFDM	1	1	17.15	17.29	17.01	17.70
Bandwidth (MHz)		Channel		505000	507000	509000	Tune-up power(dB)
		Frequency(MHz)		2525	2535	2545	
50	DFT-s-OFDM BPSK	1	1	17.20	17.20	17.01	17.70
		1	135	17.29	17.38	17.33	17.70
		1	268	17.24	17.24	17.14	17.70
	DFT-s-OFDM BPSK	135	0	17.07	17.19	17.12	17.70
		135	68	17.31	17.36	17.34	17.70
		135	135	17.26	17.26	17.16	17.70
	DFT-s-OFDM BPSK	270	0	17.24	17.33	17.31	17.70
	DFT-s-OFDM QPSK	1	1	17.27	17.29	17.04	17.70
	DFT-s-OFDM 16QAM	1	1	17.29	17.25	16.98	17.70
	DFT-s-OFDM 64QAM	1	1	17.17	17.06	16.87	17.70
	DFT-s-OFDM	1	1	17.13	17.06	17.08	17.70
	CP-OFDM QPSK	1	1	19.12	19.33	19.26	19.70
	CP-OFDM 16QAM	1	1	17.15	17.22	16.99	17.70
	CP-OFDM 64QAM	1	1	17.03	17.10	16.98	17.70
	CP-OFDM 256QAM	1	1	14.55	14.67	14.58	15.70

8.5.3 NR Band38 Output Power

5G N38-State 1 -Ant.1							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	17.93	17.99	18.03	19.00
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	18.03	18.07	17.91	19.00
		1	39	18.11	18.22	17.93	19.00
		1	76	18.06	18.11	17.86	19.00
	DFT-s-OFDM BPSK	36	0	18.10	18.27	18.01	19.00
		36	21	18.03	18.14	17.94	19.00
		36	42	18.04	18.19	17.94	19.00
	DFT-s-OFDM BPSK	75	0	18.00	18.06	18.03	19.00
	DFT-s-OFDM QPSK	1	1	18.03	18.10	18.03	19.00
	DFT-s-OFDM 16QAM	1	1	17.90	18.09	17.99	19.00
	DFT-s-OFDM 64QAM	1	1	18.03	18.19	18.17	19.00
	DFT-s-OFDM	1	1	17.85	18.09	17.90	19.00
	CP-OFDM QPSK	1	1	17.96	18.23	18.19	19.00
	CP-OFDM 16QAM	1	1	17.99	17.98	18.10	19.00
	CP-OFDM 64QAM	1	1	18.12	17.99	18.05	19.00
	CP-OFDM 256QAM	1	1	16.32	16.35	16.17	17.50

5G N38-State 2 -Ant.1							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	16.83	16.90	16.85	18.00
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	16.91	17.05	16.96	18.00
		1	39	17.04	17.19	17.04	18.00
		1	76	17.01	17.11	17.02	18.00
	DFT-s-OFDM BPSK	36	0	17.16	17.22	17.19	18.00
		36	21	17.09	17.18	17.18	18.00
		36	42	17.05	17.14	17.05	18.00
	DFT-s-OFDM BPSK	75	0	17.05	17.14	17.11	18.00
	DFT-s-OFDM QPSK	1	1	17.18	17.15	17.15	18.00
	DFT-s-OFDM 16QAM	1	1	16.99	17.06	17.18	18.00
	DFT-s-OFDM 64QAM	1	1	16.94	17.04	17.08	18.00
	DFT-s-OFDM	1	1	16.92	17.20	17.23	18.00
	CP-OFDM QPSK	1	1	17.00	17.27	16.99	18.00
	CP-OFDM 16QAM	1	1	16.97	16.99	17.20	18.00
	CP-OFDM 64QAM	1	1	16.97	17.25	17.15	18.00
	CP-OFDM 256QAM	1	1	16.22	16.29	16.24	18.00

5G N38-State 3 -Ant.1							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	16.83	16.90	16.85	18.00
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	16.91	17.05	16.96	18.00
		1	39	17.04	17.19	17.04	18.00
		1	76	17.01	17.11	17.02	18.00
	DFT-s-OFDM BPSK	36	0	17.16	17.22	17.19	18.00
		36	21	17.09	17.18	17.18	18.00
		36	42	17.05	17.14	17.05	18.00
	DFT-s-OFDM BPSK	75	0	17.05	17.14	17.11	18.00
	DFT-s-OFDM QPSK	1	1	17.18	17.15	17.15	18.00
	DFT-s-OFDM 16QAM	1	1	16.99	17.06	17.18	18.00
	DFT-s-OFDM 64QAM	1	1	16.94	17.04	17.08	18.00
	DFT-s-OFDM	1	1	16.92	17.20	17.23	18.00
	CP-OFDM QPSK	1	1	17.00	17.27	16.99	18.00
	CP-OFDM 16QAM	1	1	16.97	16.99	17.20	18.00
	CP-OFDM 64QAM	1	1	16.97	17.25	17.15	18.00
	CP-OFDM 256QAM	1	1	16.22	16.29	16.24	18.00

5G N38-State 4 -Ant.1							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	22.42	22.64	22.37	23.50
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	22.53	22.62	22.53	23.50
		1	39	22.63	22.70	22.64	23.50
		1	76	22.39	22.44	22.56	23.50
	DFT-s-OFDM BPSK	36	0	22.68	22.73	22.59	23.50
		36	21	22.60	22.63	22.47	23.50
		36	42	22.54	22.45	22.44	23.50
	DFT-s-OFDM BPSK	75	0	22.42	22.49	22.35	23.50
	DFT-s-OFDM QPSK	1	1	22.82	22.09	22.70	23.50
	DFT-s-OFDM 16QAM	1	1	21.71	21.87	21.76	23.50
	DFT-s-OFDM 64QAM	1	1	20.24	20.36	20.39	21.50
	DFT-s-OFDM	1	1	18.88	18.99	19.05	19.50
	CP-OFDM QPSK	1	1	21.57	21.62	21.42	22.50
	CP-OFDM 16QAM	1	1	21.17	21.36	21.28	22.00
	CP-OFDM 64QAM	1	1	19.87	19.69	19.78	20.50
	CP-OFDM 256QAM	1	1	16.34	16.36	16.28	17.50

5G N38-State 5 -Ant.1							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	20.57	20.61	20.64	22.00
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	20.63	20.57	20.58	22.00
		1	39	21.00	21.04	20.72	22.00
		1	76	20.60	20.53	20.66	22.00
	DFT-s-OFDM BPSK	36	0	21.02	21.06	20.92	22.00
		36	21	20.89	20.98	20.90	22.00
		36	42	20.80	20.94	20.77	22.00
	DFT-s-OFDM BPSK	75	0	20.77	20.96	20.90	22.00
	DFT-s-OFDM QPSK	1	1	20.54	20.56	20.53	22.00
	DFT-s-OFDM 16QAM	1	1	20.40	20.32	20.23	22.00
	DFT-s-OFDM 64QAM	1	1	20.45	20.36	20.37	22.00
	DFT-s-OFDM	1	1	18.78	18.98	19.09	19.50
	CP-OFDM QPSK	1	1	20.76	20.65	20.64	22.00
	CP-OFDM 16QAM	1	1	20.81	20.85	20.67	22.00
	CP-OFDM 64QAM	1	1	19.68	19.69	19.68	20.50
	CP-OFDM 256QAM	1	1	16.52	16.45	16.37	17.50

5G N38-State 6 -Ant.1							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	20.57	20.61	20.64	22.00
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	20.63	20.57	20.58	22.00
		1	39	21.00	21.04	20.72	22.00
		1	76	20.60	20.53	20.66	22.00
	DFT-s-OFDM BPSK	36	0	21.02	21.06	20.92	22.00
		36	21	20.89	20.98	20.90	22.00
		36	42	20.80	20.94	20.77	22.00
	DFT-s-OFDM BPSK	75	0	20.77	20.96	20.90	22.00
	DFT-s-OFDM QPSK	1	1	20.54	20.56	20.53	22.00
	DFT-s-OFDM 16QAM	1	1	20.40	20.32	20.23	22.00
	DFT-s-OFDM 64QAM	1	1	20.45	20.36	20.37	22.00
	DFT-s-OFDM	1	1	18.78	18.98	19.09	19.50
	CP-OFDM QPSK	1	1	20.76	20.65	20.64	22.00
	CP-OFDM 16QAM	1	1	20.81	20.85	20.67	22.00
	CP-OFDM 64QAM	1	1	19.68	19.69	19.68	20.50
	CP-OFDM 256QAM	1	1	16.52	16.45	16.37	17.50

5G N38-State 1 -Ant.0							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	23.20	23.45	22.96	24.50
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	23.13	23.33	23.17	24.50
		1	39	23.34	23.50	23.24	24.50
		1	76	23.15	23.14	23.13	24.50
	DFT-s-OFDM BPSK	36	0	22.34	22.31	22.39	23.50
		36	21	22.32	22.34	22.35	23.50
		36	42	22.40	22.48	22.42	23.50
	DFT-s-OFDM BPSK	75	0	22.22	22.29	22.27	23.50
	DFT-s-OFDM QPSK	1	1	23.25	23.31	23.29	24.50
	DFT-s-OFDM 16QAM	1	1	22.40	22.41	22.60	23.50
	DFT-s-OFDM 64QAM	1	1	21.07	20.97	21.03	22.00
	DFT-s-OFDM	1	1	19.22	19.41	19.34	20.00
	CP-OFDM QPSK	1	1	22.15	22.20	22.35	23.00
	CP-OFDM 16QAM	1	1	21.84	21.97	21.88	22.50
	CP-OFDM 64QAM	1	1	20.33	20.29	20.10	21.00
	CP-OFDM 256QAM	1	1	17.05	16.98	16.93	18.00

5G N38-State 2 -Ant.0							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	23.20	23.45	22.96	24.50
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	23.13	23.33	23.17	24.50
		1	39	23.34	23.50	23.24	24.50
		1	76	23.15	23.14	23.13	24.50
	DFT-s-OFDM BPSK	36	0	22.34	22.31	22.39	23.50
		36	21	22.32	22.34	22.35	23.50
		36	42	22.40	22.48	22.42	23.50
	DFT-s-OFDM BPSK	75	0	22.22	22.29	22.27	23.50
	DFT-s-OFDM QPSK	1	1	23.25	23.31	23.29	24.50
	DFT-s-OFDM 16QAM	1	1	22.40	22.41	22.60	23.50
	DFT-s-OFDM 64QAM	1	1	21.07	20.97	21.03	22.00
	DFT-s-OFDM	1	1	19.22	19.41	19.34	20.00
	CP-OFDM QPSK	1	1	22.15	22.20	22.35	23.00
	CP-OFDM 16QAM	1	1	21.84	21.97	21.88	22.50
	CP-OFDM 64QAM	1	1	20.33	20.29	20.10	21.00
	CP-OFDM 256QAM	1	1	17.05	16.98	16.93	18.00

5G N38-State 3 -Ant.0							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	23.20	23.45	22.96	24.50
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	23.13	23.33	23.17	24.50
		1	39	23.34	23.50	23.24	24.50
		1	76	23.15	23.14	23.13	24.50
	DFT-s-OFDM BPSK	36	0	22.34	22.31	22.39	23.50
		36	21	22.32	22.34	22.35	23.50
		36	42	22.40	22.48	22.42	23.50
	DFT-s-OFDM BPSK	75	0	22.22	22.29	22.27	23.50
	DFT-s-OFDM QPSK	1	1	23.25	23.31	23.29	24.50
	DFT-s-OFDM 16QAM	1	1	22.40	22.41	22.60	23.50
	DFT-s-OFDM 64QAM	1	1	21.07	20.97	21.03	22.00
	DFT-s-OFDM	1	1	19.22	19.41	19.34	20.00
	CP-OFDM QPSK	1	1	22.15	22.20	22.35	23.00
	CP-OFDM 16QAM	1	1	21.84	21.97	21.88	22.50
	CP-OFDM 64QAM	1	1	20.33	20.29	20.10	21.00
	CP-OFDM 256QAM	1	1	17.05	16.98	16.93	18.00

5G N38-State 4 -Ant.0							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	21.96	22.05	22.06	23.50
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	22.16	22.14	22.17	23.50
		1	39	22.24	22.29	22.27	23.50
		1	76	22.15	22.16	22.13	23.50
	DFT-s-OFDM BPSK	36	0	22.22	22.28	22.15	23.50
		36	21	22.28	22.30	22.14	23.50
		36	42	22.10	22.35	22.06	23.50
	DFT-s-OFDM BPSK	75	0	22.16	22.29	22.28	23.50
	DFT-s-OFDM QPSK	1	1	22.21	22.13	22.33	23.50
	DFT-s-OFDM 16QAM	1	1	21.83	21.89	21.91	23.50
	DFT-s-OFDM 64QAM	1	1	20.95	20.96	21.02	22.00
	DFT-s-OFDM	1	1	19.38	19.42	19.36	20.00
	CP-OFDM QPSK	1	1	22.14	22.17	22.29	23.00
	CP-OFDM 16QAM	1	1	21.86	21.94	21.80	22.50
	CP-OFDM 64QAM	1	1	20.12	20.28	20.43	21.00
	CP-OFDM 256QAM	1	1	17.16	16.96	17.01	18.00

5G N38-State 5 -Ant.0							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	20.39	20.62	20.58	22.00
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	20.62	20.62	20.54	22.00
		1	39	20.65	20.73	20.65	22.00
		1	76	20.60	20.68	20.58	22.00
	DFT-s-OFDM BPSK	36	0	20.53	20.67	20.67	22.00
		36	21	20.51	20.70	20.63	22.00
		36	42	20.64	20.76	20.72	22.00
	DFT-s-OFDM BPSK	75	0	20.46	20.63	20.57	22.00
	DFT-s-OFDM QPSK	1	1	20.56	20.60	20.58	22.00
	DFT-s-OFDM 16QAM	1	1	20.54	20.52	20.31	22.00
	DFT-s-OFDM 64QAM	1	1	20.41	20.72	20.62	22.00
	DFT-s-OFDM	1	1	19.09	19.29	19.02	20.00
	CP-OFDM QPSK	1	1	20.41	20.43	20.44	22.00
	CP-OFDM 16QAM	1	1	20.39	20.41	20.42	22.00
	CP-OFDM 64QAM	1	1	19.96	20.11	19.95	21.00
	CP-OFDM 256QAM	1	1	16.85	16.93	16.72	18.00

5G N38-State 6 -Ant.0							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	20.39	20.62	20.58	22.00
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	20.62	20.62	20.54	22.00
		1	39	20.65	20.73	20.65	22.00
		1	76	20.60	20.68	20.58	22.00
	DFT-s-OFDM BPSK	36	0	20.53	20.67	20.67	22.00
		36	21	20.51	20.70	20.63	22.00
		36	42	20.64	20.76	20.72	22.00
	DFT-s-OFDM BPSK	75	0	20.46	20.63	20.57	22.00
	DFT-s-OFDM QPSK	1	1	20.56	20.60	20.58	22.00
	DFT-s-OFDM 16QAM	1	1	20.54	20.52	20.31	22.00
	DFT-s-OFDM 64QAM	1	1	20.41	20.72	20.62	22.00
	DFT-s-OFDM	1	1	19.09	19.29	19.02	20.00
	CP-OFDM QPSK	1	1	20.41	20.43	20.44	22.00
	CP-OFDM 16QAM	1	1	20.39	20.41	20.42	22.00
	CP-OFDM 64QAM	1	1	19.96	20.11	19.95	21.00
	CP-OFDM 256QAM	1	1	16.85	16.93	16.72	18.00

5G N38-State 1 -Ant.4							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	19.80	19.71	19.95	20.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	19.92	19.94	19.90	20.20
		1	39	19.84	19.83	19.89	20.20
		1	76	19.86	19.92	19.84	20.20
	DFT-s-OFDM BPSK	36	0	19.92	19.98	19.93	20.20
		36	21	19.90	19.90	19.80	20.20
		36	42	19.87	19.95	19.84	20.20
	DFT-s-OFDM BPSK	75	0	19.89	19.93	19.85	20.20
	DFT-s-OFDM QPSK	1	1	19.92	19.74	19.92	20.20
	DFT-s-OFDM 16QAM	1	1	20.02	19.78	19.72	20.20
	DFT-s-OFDM 64QAM	1	1	18.89	18.59	19.02	19.70
	DFT-s-OFDM	1	1	17.09	17.14	17.08	17.70
	CP-OFDM QPSK	1	1	19.72	19.78	19.72	20.20
	CP-OFDM 16QAM	1	1	19.80	19.80	19.78	20.20
	CP-OFDM 64QAM	1	1	17.66	17.75	17.65	18.70
	CP-OFDM 256QAM	1	1	15.48	15.64	15.45	15.70

5G N38-State 2 -Ant.4							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	18.72	18.76	18.64	19.70
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	18.72	18.85	18.64	19.70
		1	39	18.86	18.92	18.75	19.70
		1	76	18.83	18.81	18.60	19.70
	DFT-s-OFDM BPSK	36	0	18.74	18.73	18.79	19.70
		36	21	18.76	18.84	18.84	19.70
		36	42	18.84	18.90	18.88	19.70
	DFT-s-OFDM BPSK	75	0	18.88	18.90	18.82	19.70
	DFT-s-OFDM QPSK	1	1	18.74	18.85	18.53	19.70
	DFT-s-OFDM 16QAM	1	1	18.81	18.85	18.49	19.70
	DFT-s-OFDM 64QAM	1	1	18.81	18.89	18.70	19.70
	DFT-s-OFDM	1	1	16.86	17.05	16.95	17.70
	CP-OFDM QPSK	1	1	18.81	18.79	18.45	19.70
	CP-OFDM 16QAM	1	1	18.81	18.81	18.53	19.70
	CP-OFDM 64QAM	1	1	17.70	17.31	17.13	18.70
	CP-OFDM 256QAM	1	1	15.30	15.59	15.29	15.70

5G N38-State 3 -Ant.4							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	18.72	18.76	18.64	19.70
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	18.72	18.85	18.64	19.70
		1	39	18.86	18.92	18.75	19.70
		1	76	18.83	18.81	18.60	19.70
	DFT-s-OFDM BPSK	36	0	18.74	18.73	18.79	19.70
		36	21	18.76	18.84	18.84	19.70
		36	42	18.84	18.90	18.88	19.70
	DFT-s-OFDM BPSK	75	0	18.88	18.90	18.82	19.70
	DFT-s-OFDM QPSK	1	1	18.74	18.85	18.53	19.70
	DFT-s-OFDM 16QAM	1	1	18.81	18.85	18.49	19.70
	DFT-s-OFDM 64QAM	1	1	18.81	18.89	18.70	19.70
	DFT-s-OFDM	1	1	16.86	17.05	16.95	17.70
	CP-OFDM QPSK	1	1	18.81	18.79	18.45	19.70
	CP-OFDM 16QAM	1	1	18.81	18.81	18.53	19.70
	CP-OFDM 64QAM	1	1	17.70	17.31	17.13	18.70
	CP-OFDM 256QAM	1	1	15.30	15.59	15.29	15.70

5G N38-State 4 -Ant.4							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	19.80	19.71	19.95	20.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	19.92	19.94	19.90	20.20
		1	39	19.84	19.83	19.89	20.20
		1	76	19.86	19.92	19.84	20.20
	DFT-s-OFDM BPSK	36	0	19.92	19.98	19.93	20.20
		36	21	19.90	19.90	19.80	20.20
		36	42	19.87	19.95	19.84	20.20
	DFT-s-OFDM BPSK	75	0	19.89	19.93	19.85	20.20
	DFT-s-OFDM QPSK	1	1	19.92	19.74	19.92	20.20
	DFT-s-OFDM 16QAM	1	1	20.02	19.78	19.72	20.20
	DFT-s-OFDM 64QAM	1	1	18.89	18.59	19.02	19.70
	DFT-s-OFDM	1	1	17.09	17.14	17.08	17.70
	CP-OFDM QPSK	1	1	19.72	19.78	19.72	20.20
	CP-OFDM 16QAM	1	1	19.80	19.80	19.78	20.20
	CP-OFDM 64QAM	1	1	17.66	17.75	17.65	18.70
	CP-OFDM 256QAM	1	1	15.48	15.64	15.45	15.70

5G N38-State 5 -Ant.4							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	18.41	18.33	18.44	19.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	18.46	18.53	18.49	19.20
		1	39	18.26	18.41	18.45	19.20
		1	76	18.37	18.50	18.42	19.20
	DFT-s-OFDM BPSK	36	0	18.42	18.59	18.53	19.20
		36	21	18.39	18.46	18.48	19.20
		36	42	18.40	18.51	18.47	19.20
	DFT-s-OFDM BPSK	75	0	18.49	18.55	18.52	19.20
	DFT-s-OFDM QPSK	1	1	18.39	18.40	18.45	19.20
	DFT-s-OFDM 16QAM	1	1	18.26	18.40	18.51	19.20
	DFT-s-OFDM 64QAM	1	1	18.31	18.38	18.42	19.20
	DFT-s-OFDM	1	1	16.76	17.00	16.68	17.70
	CP-OFDM QPSK	1	1	18.40	18.42	18.31	19.20
	CP-OFDM 16QAM	1	1	18.53	18.62	18.36	19.20
	CP-OFDM 64QAM	1	1	17.56	17.23	17.13	18.70
	CP-OFDM 256QAM	1	1	15.30	15.61	15.26	15.70

5G N38-State 6 -Ant.4							
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	18.41	18.33	18.44	19.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	18.46	18.53	18.49	19.20
		1	39	18.26	18.41	18.45	19.20
		1	76	18.37	18.50	18.42	19.20
	DFT-s-OFDM BPSK	36	0	18.42	18.59	18.53	19.20
		36	21	18.39	18.46	18.48	19.20
		36	42	18.40	18.51	18.47	19.20
	DFT-s-OFDM BPSK	75	0	18.49	18.55	18.52	19.20
	DFT-s-OFDM QPSK	1	1	18.39	18.40	18.45	19.20
	DFT-s-OFDM 16QAM	1	1	18.26	18.40	18.51	19.20
	DFT-s-OFDM 64QAM	1	1	18.31	18.38	18.42	19.20
	DFT-s-OFDM	1	1	16.76	17.00	16.68	17.70
	CP-OFDM QPSK	1	1	18.40	18.42	18.31	19.20
	CP-OFDM 16QAM	1	1	18.53	18.62	18.36	19.20
	CP-OFDM 64QAM	1	1	17.56	17.23	17.13	18.70
	CP-OFDM 256QAM	1	1	15.30	15.61	15.26	15.70

8.5.4 NR Band41 Output Power

5G N41-State 1 -Ant.1									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	17.06	17.03	16.94	16.94	17.02	18.00
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	17.05	17.16	17.17	16.96	16.99	18.00
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	17.17	17.06	17.13	16.99	17.04	18.00
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	17.10	17.04	16.93	17.22	16.97	18.00
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	17.05	17.01	17.13	17.01	16.97	18.00
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	16.93	17.10	16.89	17.15	16.97	18.00
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	16.93	17.10	17.09	16.98	17.01	18.00
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	17.16	17.07	17.16	17.14	17.11	18.00
		1	137	17.17	17.10	17.15	17.08	17.13	18.00
		1	271	17.22	17.11	17.25	17.22	17.18	18.00
	DFT-s-OFDM BPSK	135	0	17.08	17.04	17.13	16.96	17.04	18.00
		135	69	16.91	17.00	17.10	17.00	17.12	18.00
		135	138	17.21	17.10	17.24	17.08	17.21	18.00
	DFT-s-OFDM BPSK	270	0	17.16	17.12	17.19	17.00	17.08	18.00
	DFT-s-OFDM QPSK	1	1	17.16	17.09	17.19	17.22	17.14	18.00
	DFT-s-OFDM 16QAM	1	1	17.14	16.96	17.10	17.00	17.06	18.00
	DFT-s-OFDM 64QAM	1	1	17.09	17.03	17.12	17.21	17.23	18.00
	DFT-s-OFDM	1	1	17.07	17.19	17.12	17.00	17.11	18.00
	CP-OFDM QPSK	1	1	17.26	17.29	17.24	17.24	17.26	18.00
	CP-OFDM 16QAM	1	1	17.04	17.08	17.17	17.10	17.18	18.00
	CP-OFDM 64QAM	1	1	17.11	17.10	17.05	16.98	17.19	18.00
	CP-OFDM 256QAM	1	1	16.21	16.26	16.28	16.23	16.15	18.00

5G N41-State 2 -Ant.1									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	17.06	17.03	16.94	16.94	17.02	18.00
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	17.05	17.16	17.17	16.96	16.99	18.00
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	17.17	17.06	17.13	16.99	17.04	18.00
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	17.10	17.04	16.93	17.22	16.97	18.00
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	17.05	17.01	17.13	17.01	16.97	18.00
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	16.93	17.10	16.89	17.15	16.97	18.00
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	16.93	17.10	17.09	16.98	17.01	18.00
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	17.16	17.07	17.16	17.14	17.11	18.00
		1	137	17.17	17.10	17.15	17.08	17.13	18.00
		1	271	17.22	17.11	17.25	17.22	17.18	18.00
	DFT-s-OFDM BPSK	135	0	17.08	17.04	17.13	16.96	17.04	18.00
		135	69	16.91	17.00	17.10	17.00	17.12	18.00
		135	138	17.21	17.10	17.24	17.08	17.21	18.00
	DFT-s-OFDM BPSK	270	0	17.16	17.12	17.19	17.00	17.08	18.00
	DFT-s-OFDM QPSK	1	1	17.16	17.09	17.19	17.22	17.14	18.00
	DFT-s-OFDM 16QAM	1	1	17.14	16.96	17.10	17.00	17.06	18.00
	DFT-s-OFDM 64QAM	1	1	17.09	17.03	17.12	17.21	17.23	18.00
	DFT-s-OFDM	1	1	17.07	17.19	17.12	17.00	17.11	18.00
	CP-OFDM QPSK	1	1	17.26	17.29	17.24	17.24	17.26	18.00
	CP-OFDM 16QAM	1	1	17.04	17.08	17.17	17.10	17.18	18.00
	CP-OFDM 64QAM	1	1	17.11	17.10	17.05	16.98	17.19	18.00
	CP-OFDM 256QAM	1	1	16.21	16.26	16.28	16.23	16.15	18.00

5G N41-State 3 -Ant.1									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	17.06	17.03	16.94	16.94	17.02	18.00
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	17.05	17.16	17.17	16.96	16.99	18.00
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	17.17	17.06	17.13	16.99	17.04	18.00
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	17.10	17.04	16.93	17.22	16.97	18.00
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	17.05	17.01	17.13	17.01	16.97	18.00
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	16.93	17.10	16.89	17.15	16.97	18.00
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	16.93	17.10	17.09	16.98	17.01	18.00
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	17.16	17.07	17.16	17.14	17.11	18.00
		1	137	17.17	17.10	17.15	17.08	17.13	18.00
		1	271	17.22	17.11	17.25	17.22	17.18	18.00
	DFT-s-OFDM BPSK	135	0	17.08	17.04	17.13	16.96	17.04	18.00
		135	69	16.91	17.00	17.10	17.00	17.12	18.00
		135	138	17.21	17.10	17.24	17.08	17.21	18.00
	DFT-s-OFDM BPSK	270	0	17.16	17.12	17.19	17.00	17.08	18.00
	DFT-s-OFDM QPSK	1	1	17.16	17.09	17.19	17.22	17.14	18.00
	DFT-s-OFDM 16QAM	1	1	17.14	16.96	17.10	17.00	17.06	18.00
	DFT-s-OFDM 64QAM	1	1	17.09	17.03	17.12	17.21	17.23	18.00
	DFT-s-OFDM	1	1	17.07	17.19	17.12	17.00	17.11	18.00
	CP-OFDM QPSK	1	1	17.26	17.29	17.24	17.24	17.26	18.00
	CP-OFDM 16QAM	1	1	17.04	17.08	17.17	17.10	17.18	18.00
	CP-OFDM 64QAM	1	1	17.11	17.10	17.05	16.98	17.19	18.00
	CP-OFDM 256QAM	1	1	16.21	16.26	16.28	16.23	16.15	18.00

5G N41-State 4 -Ant.1									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	22.06	21.97	22.15	21.82	21.81	23.00
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	22.06	22.02	22.06	21.99	21.92	23.00
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	21.91	22.02	22.20	21.86	21.70	23.00
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	21.98	21.88	22.20	21.91	21.79	23.00
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	22.20	21.84	22.11	22.13	21.75	23.00
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	21.93	22.04	22.22	22.08	21.68	23.00
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	21.93	21.97	21.95	22.06	21.84	23.00
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	21.94	21.88	22.06	21.92	21.88	23.00
		1	137	21.88	21.72	22.03	21.72	21.83	23.00
		1	271	22.08	22.01	22.12	22.06	22.10	23.00
	DFT-s-OFDM BPSK	135	0	21.94	21.68	22.09	21.70	21.85	23.00
		135	69	21.85	21.87	22.07	21.72	21.94	23.00
		135	138	22.06	21.93	22.15	21.88	21.97	23.00
	DFT-s-OFDM BPSK	270	0	22.04	22.02	22.09	21.74	21.98	23.00
	DFT-s-OFDM QPSK	1	1	21.05	21.06	21.09	20.90	20.96	23.00
	DFT-s-OFDM 16QAM	1	1	20.70	20.49	20.85	20.64	20.72	23.00
	DFT-s-OFDM 64QAM	1	1	19.89	19.69	19.91	19.83	19.89	21.50
	DFT-s-OFDM	1	1	18.99	18.90	18.97	18.94	18.88	19.50
	CP-OFDM QPSK	1	1	20.97	21.24	21.16	21.20	21.20	23.00
	CP-OFDM 16QAM	1	1	20.73	20.63	20.86	20.71	20.65	22.00
	CP-OFDM 64QAM	1	1	19.44	19.38	19.62	19.44	19.50	20.50
	CP-OFDM 256QAM	1	1	16.22	16.07	16.24	16.06	16.12	17.50

5G N41-State 5 -Ant.1									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	20.46	20.65	20.54	20.69	20.60	21.50
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	20.40	20.59	20.25	20.51	20.46	21.50
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	20.32	20.63	20.40	20.44	20.41	21.50
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	20.56	20.73	20.52	20.51	20.48	21.50
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	20.42	20.44	20.25	20.73	20.64	21.50
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	20.54	20.69	20.50	20.73	20.64	21.50
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	20.54	20.61	20.32	20.61	20.50	21.50
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	20.48	20.51	20.65	20.63	20.62	21.50
		1	137	20.41	20.66	20.62	20.43	20.58	21.50
		1	271	20.63	20.59	20.71	20.68	20.68	21.50
	DFT-s-OFDM BPSK	135	0	20.49	20.53	20.61	20.42	20.57	21.50
		135	69	20.33	20.27	20.45	20.23	20.41	21.50
		135	138	20.67	20.50	20.69	20.65	20.62	21.50
	DFT-s-OFDM BPSK	270	0	20.55	20.43	20.64	20.45	20.62	21.50
	DFT-s-OFDM QPSK	1	1	20.67	20.44	20.65	20.67	20.44	21.50
	DFT-s-OFDM 16QAM	1	1	20.28	20.34	20.30	20.18	20.40	21.50
	DFT-s-OFDM 64QAM	1	1	19.31	19.30	19.49	19.30	19.45	21.50
	DFT-s-OFDM	1	1	18.39	18.63	18.59	18.42	18.63	19.50
	CP-OFDM QPSK	1	1	20.41	20.59	20.57	20.53	20.41	21.50
	CP-OFDM 16QAM	1	1	20.35	20.25	20.33	20.17	20.41	21.50
	CP-OFDM 64QAM	1	1	18.87	19.06	19.04	19.08	19.00	20.50
	CP-OFDM 256QAM	1	1	15.79	15.85	15.82	15.71	15.69	17.50

5G N41-State 6 -Ant.1									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	20.46	20.65	20.54	20.69	20.60	21.50
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	20.40	20.59	20.25	20.51	20.46	21.50
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	20.32	20.63	20.40	20.44	20.41	21.50
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	20.56	20.73	20.52	20.51	20.48	21.50
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	20.42	20.44	20.25	20.73	20.64	21.50
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	20.54	20.69	20.50	20.73	20.64	21.50
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	20.54	20.61	20.32	20.61	20.50	21.50
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	20.48	20.51	20.65	20.63	18.00	21.50
		1	137	20.41	20.66	20.62	20.43	20.58	21.50
		1	271	20.63	20.59	20.71	20.68	20.68	21.50
	DFT-s-OFDM BPSK	135	0	20.49	20.53	20.61	20.42	20.57	21.50
		135	69	20.33	20.27	20.45	20.23	20.41	21.50
		135	138	20.67	20.50	20.69	20.65	20.62	21.50
	DFT-s-OFDM BPSK	270	0	20.55	20.43	20.64	20.45	20.62	21.50
	DFT-s-OFDM QPSK	1	1	20.67	20.44	20.65	20.67	20.44	21.50
	DFT-s-OFDM 16QAM	1	1	20.28	20.34	20.30	20.18	20.40	21.50
	DFT-s-OFDM 64QAM	1	1	19.31	19.30	19.49	19.30	19.45	21.50
	DFT-s-OFDM	1	1	18.39	18.63	18.59	18.42	18.63	19.50
	CP-OFDM QPSK	1	1	20.41	20.59	20.57	20.53	20.41	21.50
	CP-OFDM 16QAM	1	1	20.35	20.25	20.33	20.17	20.41	21.50
	CP-OFDM 64QAM	1	1	18.87	19.06	19.04	19.08	19.00	20.50
	CP-OFDM 256QAM	1	1	15.79	15.85	15.82	15.71	15.69	17.50

5G N41-State 1 -Ant.0									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	23.31	23.10	23.03	23.12	23.17	24.50
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	23.21	23.28	23.12	23.26	23.26	24.50
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	23.17	23.14	23.05	23.00	23.17	24.50
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	23.03	23.00	23.21	23.14	23.26	24.50
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	23.03	23.35	23.38	23.33	23.31	24.50
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	23.24	23.26	23.17	23.00	23.07	24.50
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	23.10	23.12	23.03	23.19	23.17	24.50
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	23.25	23.32	23.37	23.25	23.32	24.50
		1	137	23.24	23.21	23.26	23.05	23.03	24.50
		1	271	23.20	23.27	23.29	23.31	23.28	24.50
	DFT-s-OFDM BPSK	135	0	22.09	22.09	22.31	22.24	22.09	23.50
		135	69	22.11	22.28	22.24	22.20	22.13	23.50
		135	138	22.26	22.15	22.26	22.24	22.22	23.50
	DFT-s-OFDM BPSK	270	0	22.28	22.20	22.31	22.18	22.29	23.50
	DFT-s-OFDM QPSK	1	1	23.23	23.35	23.30	23.32	23.07	24.50
	DFT-s-OFDM 16QAM	1	1	21.50	21.35	21.46	21.42	21.48	23.50
	DFT-s-OFDM 64QAM	1	1	19.82	19.94	20.02	19.84	20.12	22.00
	DFT-s-OFDM	1	1	18.93	19.03	19.01	19.03	19.03	20.00
	CP-OFDM QPSK	1	1	21.01	21.24	21.24	21.18	21.35	23.00
	CP-OFDM 16QAM	1	1	21.07	20.93	20.97	20.78	20.80	22.50
	CP-OFDM 64QAM	1	1	19.78	19.48	19.70	19.60	19.64	21.00
	CP-OFDM 256QAM	1	1	16.28	16.34	16.39	16.34	16.21	18.00

5G N41-State 2 -Ant.0									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	23.31	23.10	23.03	23.12	23.17	24.50
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	23.21	23.28	23.12	23.26	23.26	24.50
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	23.17	23.14	23.05	23.00	23.17	24.50
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	23.03	23.00	23.21	23.14	23.26	24.50
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	23.03	23.35	23.38	23.33	23.31	24.50
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	23.24	23.26	23.17	23.00	23.07	24.50
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	23.10	23.12	23.03	23.19	23.17	24.50
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	23.25	23.32	23.37	23.25	23.32	24.50
		1	137	23.24	23.21	23.26	23.05	23.03	24.50
		1	271	23.20	23.27	23.29	23.31	23.28	24.50
	DFT-s-OFDM BPSK	135	0	22.09	22.09	22.31	22.24	22.09	23.50
		135	69	22.11	22.28	22.24	22.20	22.13	23.50
		135	138	22.26	22.15	22.26	22.24	22.22	23.50
	DFT-s-OFDM BPSK	270	0	22.28	22.20	22.31	22.18	22.29	23.50
	DFT-s-OFDM QPSK	1	1	23.23	23.35	23.30	23.32	23.07	24.50
	DFT-s-OFDM 16QAM	1	1	21.50	21.35	21.46	21.42	21.48	23.50
	DFT-s-OFDM 64QAM	1	1	19.82	19.94	20.02	19.84	20.12	22.00
	DFT-s-OFDM	1	1	18.93	19.03	19.01	19.03	19.03	20.00
	CP-OFDM QPSK	1	1	21.01	21.24	21.24	21.18	21.35	23.00
	CP-OFDM 16QAM	1	1	21.07	20.93	20.97	20.78	20.80	22.50
	CP-OFDM 64QAM	1	1	19.78	19.48	19.70	19.60	19.64	21.00
	CP-OFDM 256QAM	1	1	16.28	16.34	16.39	16.34	16.21	18.00

5G N41-State 3 -Ant.0									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	23.31	23.10	23.03	23.12	23.17	24.50
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	23.21	23.28	23.12	23.26	23.26	24.50
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	23.17	23.14	23.05	23.00	23.17	24.50
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	23.03	23.00	23.21	23.14	23.26	24.50
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	23.03	23.35	23.38	23.33	23.31	24.50
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	23.24	23.26	23.17	23.00	23.07	24.50
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	23.10	23.12	23.03	23.19	23.17	24.50
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	23.25	23.32	23.37	23.25	23.32	24.50
		1	137	23.24	23.21	23.26	23.05	23.03	24.50
		1	271	23.20	23.27	23.29	23.31	23.28	24.50
	DFT-s-OFDM BPSK	135	0	22.09	22.09	22.31	22.24	22.09	23.50
		135	69	22.11	22.28	22.24	22.20	22.13	23.50
		135	138	22.26	22.15	22.26	22.24	22.22	23.50
	DFT-s-OFDM BPSK	270	0	22.28	22.20	22.31	22.18	22.29	23.50
	DFT-s-OFDM QPSK	1	1	23.23	23.35	23.30	23.32	23.07	24.50
	DFT-s-OFDM 16QAM	1	1	21.50	21.35	21.46	21.42	21.48	23.50
	DFT-s-OFDM 64QAM	1	1	19.82	19.94	20.02	19.84	20.12	22.00
	DFT-s-OFDM	1	1	18.93	19.03	19.01	19.03	19.03	20.00
	CP-OFDM QPSK	1	1	21.01	21.24	21.24	21.18	21.35	23.00
	CP-OFDM 16QAM	1	1	21.07	20.93	20.97	20.78	20.80	22.50
	CP-OFDM 64QAM	1	1	19.78	19.48	19.70	19.60	19.64	21.00
	CP-OFDM 256QAM	1	1	16.28	16.34	16.39	16.34	16.21	18.00

5G N41-State 4 -Ant.0									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	21.99	22.10	21.97	21.97	22.03	23.50
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	22.23	22.14	22.14	22.05	22.10	23.50
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	22.10	22.03	22.08	22.21	22.10	23.50
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	22.14	22.17	22.23	22.05	21.94	23.50
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	21.88	22.28	22.08	21.97	22.05	23.50
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	22.12	22.14	22.03	22.30	21.86	23.50
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	22.08	22.19	22.21	22.08	21.99	23.50
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	22.21	22.26	22.28	22.26	22.19	23.50
		1	137	22.19	22.03	22.23	21.90	22.12	23.50
		1	271	22.12	22.10	22.21	21.97	22.01	23.50
	DFT-s-OFDM BPSK	135	0	22.15	22.06	22.26	22.02	22.24	23.50
		135	69	22.14	21.96	22.18	21.72	21.94	23.50
		135	138	22.10	22.22	22.20	22.07	22.18	23.50
	DFT-s-OFDM BPSK	270	0	22.02	22.08	22.26	22.02	22.04	23.50
	DFT-s-OFDM QPSK	1	1	23.32	23.15	23.39	23.25	23.13	23.50
	DFT-s-OFDM 16QAM	1	1	21.31	21.57	21.46	21.33	21.46	23.50
	DFT-s-OFDM 64QAM	1	1	19.64	19.66	19.84	19.74	19.82	21.50
	DFT-s-OFDM	1	1	18.92	18.93	19.11	18.93	19.03	19.50
	CP-OFDM QPSK	1	1	20.99	20.92	21.01	20.74	20.84	22.50
	CP-OFDM 16QAM	1	1	20.74	20.88	20.84	20.84	20.88	22.00
	CP-OFDM 64QAM	1	1	19.78	19.72	19.70	19.70	19.68	20.50
	CP-OFDM 256QAM	1	1	16.28	16.07	16.23	16.29	16.23	17.50

5G N41-State 5 -Ant.0									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	20.89	21.16	21.08	21.23	21.26	22.00
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	21.08	21.23	20.91	21.23	20.99	22.00
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	20.95	21.04	21.04	21.06	21.14	22.00
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	21.06	21.08	21.18	21.16	21.07	22.00
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	20.99	20.93	21.23	21.06	21.14	22.00
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	21.04	21.23	21.01	20.91	21.01	22.00
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	21.16	21.14	20.89	20.99	21.22	22.00
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	21.10	21.11	21.12	21.04	21.10	22.00
		1	137	21.08	20.89	21.08	21.00	21.09	22.00
		1	271	21.09	21.04	21.09	20.94	20.94	22.00
	DFT-s-OFDM BPSK	135	0	21.04	21.03	21.09	21.09	21.03	22.00
		135	69	20.96	20.96	21.04	20.85	20.83	22.00
		135	138	20.97	21.00	21.05	21.07	20.99	22.00
	DFT-s-OFDM BPSK	270	0	20.92	21.05	21.09	20.92	21.04	22.00
	DFT-s-OFDM QPSK	1	1	21.20	21.05	21.20	21.28	21.16	22.00
	DFT-s-OFDM 16QAM	1	1	21.27	21.16	21.16	21.24	21.27	22.00
	DFT-s-OFDM 64QAM	1	1	19.80	19.82	19.76	19.72	19.56	22.00
	DFT-s-OFDM	1	1	18.83	19.02	18.96	18.75	18.79	19.50
	CP-OFDM QPSK	1	1	21.09	20.98	21.09	20.96	20.90	22.00
	CP-OFDM 16QAM	1	1	20.67	20.71	20.88	20.73	20.80	22.00
	CP-OFDM 64QAM	1	1	19.42	19.38	19.58	19.68	19.68	20.50
	CP-OFDM 256QAM	1	1	16.09	16.07	16.25	16.09	16.15	17.50

5G N41-State 6 -Ant.0									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	20.89	21.16	21.08	21.23	21.26	22.00
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	21.08	21.23	20.91	21.23	20.99	22.00
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	20.95	21.04	21.04	21.06	21.14	22.00
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	21.06	21.08	21.18	21.16	21.07	22.00
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	20.99	20.93	21.23	21.06	21.14	22.00
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	21.04	21.23	21.01	20.91	21.01	22.00
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	21.16	21.14	20.89	20.99	21.22	22.00
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	21.10	21.11	21.12	21.04	21.10	22.00
		1	137	21.08	20.89	21.08	21.00	21.09	22.00
		1	271	21.09	21.04	21.09	20.94	20.94	22.00
	DFT-s-OFDM BPSK	135	0	21.04	21.03	21.09	21.09	21.03	22.00
		135	69	20.96	20.96	21.04	20.85	20.83	22.00
		135	138	20.97	21.00	21.05	21.07	20.99	22.00
	DFT-s-OFDM BPSK	270	0	20.92	21.05	21.09	20.92	21.04	22.00
	DFT-s-OFDM QPSK	1	1	21.20	21.05	21.20	21.28	21.16	22.00
	DFT-s-OFDM 16QAM	1	1	21.27	21.16	21.16	21.24	21.27	22.00
	DFT-s-OFDM 64QAM	1	1	19.80	19.82	19.76	19.72	19.56	22.00
	DFT-s-OFDM	1	1	18.83	19.02	18.96	18.75	18.79	19.50
	CP-OFDM QPSK	1	1	21.09	20.98	21.09	20.96	20.90	22.00
	CP-OFDM 16QAM	1	1	20.67	20.71	20.88	20.73	20.80	22.00
	CP-OFDM 64QAM	1	1	19.42	19.38	19.58	19.68	19.68	20.50
	CP-OFDM 256QAM	1	1	16.09	16.07	16.25	16.09	16.15	17.50

5G N41-State 1 -Ant.4									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	21.11	21.20	21.01	21.01	21.01	21.20
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	21.03	20.86	21.09	20.98	20.86	21.20
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	20.94	20.98	21.20	20.90	20.90	21.20
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	21.09	20.86	20.86	20.94	20.88	21.20
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	21.05	20.86	20.86	21.05	21.17	21.20
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	21.09	21.03	21.20	20.88	20.88	21.20
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	21.09	20.98	20.86	20.86	21.03	21.20
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	21.09	21.07	21.11	20.98	21.07	21.20
		1	137	20.90	20.86	21.09	20.94	21.06	21.20
		1	271	20.93	20.93	21.04	21.06	21.04	21.20
	DFT-s-OFDM BPSK	135	0	21.06	20.94	21.08	20.87	20.93	21.20
		135	69	21.08	20.83	21.06	20.87	20.98	21.20
		135	138	20.96	21.00	21.11	20.94	21.04	21.20
	DFT-s-OFDM BPSK	270	0	20.92	20.88	21.09	20.96	21.07	21.20
	DFT-s-OFDM QPSK	1	1	19.97	19.99	20.07	19.87	20.11	21.20
	DFT-s-OFDM 16QAM	1	1	20.15	20.07	20.05	19.89	20.01	21.20
	DFT-s-OFDM 64QAM	1	1	18.44	18.18	18.35	18.22	18.37	19.70
	DFT-s-OFDM	1	1	16.63	16.75	16.73	16.76	16.55	17.70
	CP-OFDM QPSK	1	1	19.66	19.82	19.88	19.96	19.98	20.70
	CP-OFDM 16QAM	1	1	19.61	19.57	19.53	19.37	19.43	20.20
	CP-OFDM 64QAM	1	1	17.72	17.91	17.86	17.84	17.86	18.70
	CP-OFDM 256QAM	1	1	14.55	14.66	14.65	14.69	14.68	15.70

5G N41-State 2 -Ant.4									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	19.85	19.98	19.99	20.04	19.89	20.20
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	19.99	20.02	19.91	19.92	19.71	20.20
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	20.07	20.08	20.09	20.10	20.09	20.20
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	20.03	19.88	19.91	19.90	19.93	20.20
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	20.05	20.04	19.91	19.92	20.03	20.20
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	19.89	20.16	20.07	20.18	20.11	20.20
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	19.97	20.00	20.01	19.92	19.93	20.20
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	19.96	20.00	20.08	19.98	20.02	20.20
		1	137	19.92	19.81	20.01	19.89	19.89	20.20
		1	271	19.83	19.97	20.03	20.03	19.96	20.20
	DFT-s-OFDM BPSK	135	0	19.92	19.91	20.05	19.99	19.91	20.20
		135	69	19.99	19.88	20.08	20.02	19.96	20.20
		135	138	20.04	19.98	20.10	20.08	20.08	20.20
	DFT-s-OFDM BPSK	270	0	19.97	19.99	20.07	20.04	19.91	20.20
	DFT-s-OFDM QPSK	1	1	19.82	20.06	20.04	20.08	19.92	20.20
	DFT-s-OFDM 16QAM	1	1	20.00	19.86	20.02	19.90	20.10	20.20
	DFT-s-OFDM 64QAM	1	1	18.38	18.24	18.31	18.11	18.29	19.70
	DFT-s-OFDM	1	1	16.67	16.80	16.75	16.68	16.75	17.70
	CP-OFDM QPSK	1	1	20.00	19.76	19.94	19.74	19.76	20.20
	CP-OFDM 16QAM	1	1	19.30	19.20	19.32	19.13	19.13	20.20
	CP-OFDM 64QAM	1	1	17.77	17.72	17.88	17.90	17.75	18.70
	CP-OFDM 256QAM	1	1	14.59	14.55	14.68	14.69	14.59	15.70

5G N41-State 3 -Ant.4									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	19.85	19.98	19.99	20.04	19.89	20.20
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	19.99	20.02	19.91	19.92	19.71	20.20
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	20.07	20.08	20.09	20.10	20.09	20.20
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	20.03	19.88	19.91	19.90	19.93	20.20
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	20.05	20.04	19.91	19.92	20.03	20.20
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	19.89	20.16	20.07	20.18	20.11	20.20
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	19.97	20.00	20.01	19.92	19.93	20.20
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	19.96	20.00	20.08	19.98	20.02	20.20
		1	137	19.92	19.81	20.01	19.89	19.89	20.20
		1	271	19.83	19.97	20.03	20.03	19.96	20.20
	DFT-s-OFDM BPSK	135	0	19.92	19.91	20.05	19.99	19.91	20.20
		135	69	19.99	19.88	20.08	20.02	19.96	20.20
		135	138	20.04	19.98	20.10	20.08	20.08	20.20
	DFT-s-OFDM BPSK	270	0	19.97	19.99	20.07	20.04	19.91	20.20
	DFT-s-OFDM QPSK	1	1	19.82	20.06	20.04	20.08	19.92	20.20
	DFT-s-OFDM 16QAM	1	1	20.00	19.86	20.02	19.90	20.10	20.20
	DFT-s-OFDM 64QAM	1	1	18.38	18.24	18.31	18.11	18.29	19.70
	DFT-s-OFDM	1	1	16.67	16.80	16.75	16.68	16.75	17.70
	CP-OFDM QPSK	1	1	20.00	19.76	19.94	19.74	19.76	20.20
	CP-OFDM 16QAM	1	1	19.30	19.20	19.32	19.13	19.13	20.20
	CP-OFDM 64QAM	1	1	17.77	17.72	17.88	17.90	17.75	18.70
	CP-OFDM 256QAM	1	1	14.59	14.55	14.68	14.69	14.59	15.70

5G N41-State 4 -Ant.4									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	21.11	21.20	21.01	21.01	21.01	21.20
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	21.03	20.86	21.09	20.98	20.86	21.20
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	20.94	20.98	21.20	20.90	20.90	21.20
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	21.09	20.86	20.86	20.94	20.88	21.20
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	21.05	20.86	20.86	21.05	21.17	21.20
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	21.09	21.03	21.20	20.88	20.88	21.20
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	21.09	20.98	20.86	20.86	21.03	21.20
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	21.09	21.07	21.11	20.98	21.07	21.20
		1	137	20.90	20.86	21.09	20.94	21.06	21.20
		1	271	20.93	20.93	21.04	21.06	21.04	21.20
	DFT-s-OFDM BPSK	135	0	21.06	20.94	21.08	20.87	20.93	21.20
		135	69	21.08	20.83	21.06	20.87	20.98	21.20
		135	138	20.96	21.00	21.11	20.94	21.04	21.20
	DFT-s-OFDM BPSK	270	0	20.92	20.88	21.09	20.96	21.07	21.20
	DFT-s-OFDM QPSK	1	1	19.97	19.99	20.07	19.87	20.11	21.20
	DFT-s-OFDM 16QAM	1	1	20.15	20.07	20.05	19.89	20.01	21.20
	DFT-s-OFDM 64QAM	1	1	18.44	18.18	18.35	18.22	18.37	19.70
	DFT-s-OFDM	1	1	16.63	16.75	16.73	16.76	16.55	17.70
	CP-OFDM QPSK	1	1	19.66	19.82	19.88	19.96	19.98	20.70
	CP-OFDM 16QAM	1	1	19.61	19.57	19.53	19.37	19.43	20.20
	CP-OFDM 64QAM	1	1	17.72	17.91	17.86	17.84	17.86	18.70
	CP-OFDM 256QAM	1	1	14.55	14.66	14.65	14.69	14.68	15.70

5G N41-State 5 -Ant.4									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	19.32	19.14	19.16	19.14	19.14	19.70
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	19.30	19.43	19.36	19.41	19.12	19.70
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	19.07	19.14	19.32	19.14	19.24	19.70
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	19.22	19.19	19.15	19.37	19.07	19.70
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	19.13	19.41	19.13	19.18	19.09	19.70
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	19.09	19.37	19.36	19.33	19.09	19.70
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	19.22	19.37	19.09	19.23	19.09	19.70
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	19.31	19.23	19.35	19.20	19.26	19.70
		1	137	19.21	19.21	19.31	19.16	19.12	19.70
		1	271	19.28	19.14	19.33	19.29	19.24	19.70
	DFT-s-OFDM BPSK	135	0	19.14	19.27	19.29	19.31	19.27	19.70
		135	69	19.11	19.28	19.26	19.20	19.22	19.70
		135	138	19.32	19.17	19.34	19.15	19.29	19.70
	DFT-s-OFDM BPSK	270	0	19.28	19.23	19.31	19.25	19.27	19.70
	DFT-s-OFDM QPSK	1	1	19.29	19.27	19.25	19.23	19.22	19.70
	DFT-s-OFDM 16QAM	1	1	19.17	19.04	19.21	19.21	19.26	19.70
	DFT-s-OFDM 64QAM	1	1	18.27	18.20	18.31	18.35	18.26	19.70
	DFT-s-OFDM	1	1	16.83	16.95	16.90	16.83	16.80	17.70
	CP-OFDM QPSK	1	1	19.25	19.04	19.23	19.27	19.24	19.70
	CP-OFDM 16QAM	1	1	19.35	19.08	19.21	19.08	19.14	19.70
	CP-OFDM 64QAM	1	1	17.74	17.97	17.88	17.92	17.83	18.70
	CP-OFDM 256QAM	1	1	14.61	14.69	14.68	14.56	14.69	15.70

5G N41-State 6 -Ant.4									
Bandwidth (MHz)		Channel		501204	509898	518598	527298	535998	Tune-up power(dB)
		Frequency(MHz)		2506.02	2549.49	2592.99	2636.49	2679.99	
20	DFT-s-OFDM	1	1	19.32	19.14	19.16	19.14	19.14	19.70
Bandwidth (MHz)		Channel		502200	510396	518598	526794	534996	Tune-up power(dB)
		Frequency(MHz)		2511	2551.98	2592.99	2633.97	2674.98	
30	DFT-s-OFDM	1	1	19.30	19.43	19.36	19.41	19.12	19.70
Bandwidth (MHz)		Channel		503202	510900	518598	526296	534000	Tune-up power(dB)
		Frequency(MHz)		2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM	1	1	19.07	19.14	19.32	19.14	19.24	19.70
Bandwidth (MHz)		Channel		504204	511401	518598	525795	532998	Tune-up power(dB)
		Frequency(MHz)		2521.02	2557.005	2592.99	2628.975	2664.99	
50	DFT-s-OFDM	1	1	19.22	19.19	19.15	19.37	19.07	19.70
Bandwidth (MHz)		Channel		505200	511899	518598	525297	531996	Tune-up power(dB)
		Frequency(MHz)		2526	2559.495	2592.99	2626.485	2659.98	
60	DFT-s-OFDM	1	1	19.13	19.41	19.13	19.18	19.09	19.70
Bandwidth (MHz)		Channel		507204	512901	518598	524295	529998	Tune-up power(dB)
		Frequency(MHz)		2536.02	2564.505	2592.99	2621.475	2649.99	
80	DFT-s-OFDM	1	1	19.09	19.37	19.36	19.33	19.09	19.70
Bandwidth (MHz)		Channel		508200	513399	518598	523797	528996	Tune-up power(dB)
		Frequency(MHz)		2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM	1	1	19.22	19.37	19.09	19.23	19.09	19.70
Bandwidth (MHz)		Channel		509202	513900	518598	523302	528000	Tune-up power(dB)
		Frequency(MHz)		2546.01	2569.5	2592.99	2616.51	2640	
100	DFT-s-OFDM BPSK	1	1	19.31	19.23	19.35	19.20	19.26	19.70
		1	137	19.21	19.21	19.31	19.16	19.12	19.70
		1	271	19.28	19.14	19.33	19.29	19.24	19.70
	DFT-s-OFDM BPSK	135	0	19.14	19.27	19.29	19.31	19.27	19.70
		135	69	19.11	19.28	19.26	19.20	19.22	19.70
		135	138	19.32	19.17	19.34	19.15	19.29	19.70
	DFT-s-OFDM BPSK	270	0	19.28	19.23	19.31	19.25	19.27	19.70
	DFT-s-OFDM QPSK	1	1	19.29	19.27	19.25	19.23	19.22	19.70
	DFT-s-OFDM 16QAM	1	1	19.17	19.04	19.21	19.21	19.26	19.70
	DFT-s-OFDM 64QAM	1	1	18.27	18.20	18.31	18.35	18.26	19.70
	DFT-s-OFDM	1	1	16.83	16.95	16.90	16.83	16.80	17.70
	CP-OFDM QPSK	1	1	19.25	19.04	19.23	19.27	19.24	19.70
	CP-OFDM 16QAM	1	1	19.35	19.08	19.21	19.08	19.14	19.70
	CP-OFDM 64QAM	1	1	17.74	17.97	17.88	17.92	17.83	18.70
	CP-OFDM 256QAM	1	1	14.61	14.69	14.68	14.56	14.69	15.70