



REPORT No. : SZ21020184S01

Annex E1 Conducted Full Power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
	Frequency (MHz)	824.2	836.4		848.8	824.2	836.4	
GSM 1 Tx slot	32.35	32.34	32.18	33.00	23.35	23.34	23.18	24.00
GPRS 1 Tx slot	32.35	32.35	32.18	33.00	23.35	23.35	23.18	24.00
GPRS 2 Tx slots	30.94	31.04	30.78	31.50	24.94	25.04	24.78	25.50
GPRS 3 Tx slots	28.86	28.97	28.85	29.50	24.60	24.71	24.59	25.24
GPRS 4 Tx slots	27.89	27.92	27.75	28.50	24.89	24.92	24.75	25.50
EDGE 1 Tx slot	26.50	26.70	26.49	27.00	17.50	17.70	17.49	18.00
EDGE 2 Tx slots	24.47	24.77	24.44	25.00	18.47	18.77	18.44	19.00
EDGE 3 Tx slots	22.90	22.95	22.85	23.50	18.64	18.69	18.59	19.24
EDGE 4 Tx slots	21.57	21.75	21.51	22.00	18.57	18.75	18.51	19.00
Antenna	Ant.1							

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	Frequency (MHz)	1850.2	1880		1909.8	1850.2	1880	
GSM 1 Tx slot	29.14	28.87	29.22	30.00	20.14	19.87	20.22	21.00
GPRS 1 Tx slot	29.24	28.77	29.27	30.00	20.24	19.77	20.27	21.00
GPRS 2 Tx slots	27.21	27.28	27.10	28.00	21.21	21.28	21.10	22.00
GPRS 3 Tx slots	25.32	25.43	25.47	26.00	21.06	21.17	21.21	21.74
GPRS 4 Tx slots	24.01	24.25	24.04	25.00	21.01	21.25	21.04	22.00
EDGE 1 Tx slot	25.43	25.13	25.16	26.00	16.43	16.13	16.16	17.00
EDGE 2 Tx slots	23.36	23.48	23.16	24.00	17.36	17.48	17.16	18.00
EDGE 3 Tx slots	21.52	21.58	21.73	22.00	17.26	17.32	17.47	17.74
EDGE 4 Tx slots	20.37	20.57	20.77	21.00	17.37	17.57	17.77	18.00
Antenna	Ant.2							

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	Frequency (MHz)	1850.2	1880		1909.8	1850.2	1880	
GSM 1 Tx slot	28.10	28.25	28.30	29.00	19.10	19.25	19.30	20.00
GPRS 1 Tx slot	28.14	28.27	28.31	29.00	19.14	19.27	19.31	20.00
GPRS 2 Tx slots	25.78	26.00	26.06	26.50	19.78	20.00	20.06	20.50
GPRS 3 Tx slots	24.10	24.47	24.44	25.00	19.84	20.21	20.18	20.74
GPRS 4 Tx slots	23.00	23.03	23.11	23.50	20.00	20.03	20.11	20.50
EDGE 1 Tx slot	24.18	24.26	24.21	24.50	15.18	15.26	15.21	15.50
EDGE 2 Tx slots	22.18	22.19	22.14	22.50	16.18	16.19	16.14	16.50
EDGE 3 Tx slots	20.56	20.68	20.66	21.00	16.30	16.42	16.40	16.74
EDGE 4 Tx slots	19.46	19.43	19.34	20.00	16.46	16.43	16.34	17.00
Antenna	Ant.4							

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	RMC 12.2Kbps	23.57	23.79	23.78	24.50	23.71	23.81	23.77	24.50	24.08	24.15	24.10	24.50
3GPP Rel 6	HSDPA Subtest-1	23.10	23.18	23.21	24.00	23.13	23.17	23.12	24.00	23.31	23.36	23.34	24.00
3GPP Rel 6	HSDPA Subtest-2	23.15	23.17	23.20	24.00	23.13	23.11	23.14	24.00	23.30	23.34	23.31	24.00
3GPP Rel 6	HSDPA Subtest-3	22.62	22.69	22.59	23.50	22.58	22.59	22.65	23.50	22.80	22.86	22.86	23.50
3GPP Rel 6	HSDPA Subtest-4	22.61	22.59	22.65	23.50	22.57	22.63	22.63	23.50	22.84	22.86	22.81	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.04	23.10	23.14	24.00	23.13	23.15	23.12	24.00	23.30	23.32	23.31	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.63	22.64	22.58	24.00	22.63	22.66	22.65	24.00	22.75	22.76	22.75	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	23.07	23.16	23.12	24.00	23.13	23.09	23.06	24.00	23.31	23.32	23.31	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	23.09	23.20	23.10	24.00	23.17	23.20	23.08	24.00	23.31	23.31	23.34	24.00
3GPP Rel 6	HSUPA Subtest-1	23.05	23.10	23.05	24.00	23.09	23.17	23.11	24.00	23.36	23.32	23.34	24.00
3GPP Rel 6	HSUPA Subtest-2	23.02	23.04	23.18	24.00	23.07	23.18	23.12	24.00	23.27	23.32	23.33	24.00
3GPP Rel 6	HSUPA Subtest-3	23.18	23.23	23.24	24.00	23.15	23.25	23.16	24.00	23.33	23.39	23.38	24.00
3GPP Rel 6	HSUPA Subtest-4	23.17	23.24	23.22	24.00	23.19	23.21	23.16	24.00	23.31	23.40	23.39	24.00
3GPP Rel 6	HSUPA Subtest-5	22.68	22.72	22.71	23.50	22.68	22.74	22.70	23.50	22.86	22.88	22.84	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-	22.71	22.73	22.69	23.50	22.66	22.73	22.68	23.50	22.85	22.89	22.83	23.50
Antenna		Ant.2				Ant.2				Ant.1			

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99	RMC 12.2Kbps	22.72	22.74	22.73	23.50	22.68	22.88	22.87	23.50
3GPP Rel 6	HSDPA Subtest-1	21.98	22.04	21.97	22.50	22.03	22.08	22.06	22.50
3GPP Rel 6	HSDPA Subtest-2	21.98	21.98	21.98	22.50	22.00	22.04	21.98	22.50
3GPP Rel 6	HSDPA Subtest-3	21.38	21.47	21.48	22.00	21.48	21.53	21.53	22.00
3GPP Rel 6	HSDPA Subtest-4	21.38	21.55	21.45	22.00	21.53	21.49	21.52	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.05	22.02	22.04	22.50	22.03	22.02	22.09	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	21.47	21.50	21.54	22.50	21.49	21.50	21.48	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.97	22.07	22.07	22.50	22.03	22.09	22.02	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.96	22.08	22.03	22.50	21.98	22.04	21.99	22.50
3GPP Rel 6	HSUPA Subtest-1	21.98	22.07	22.01	22.50	22.05	21.96	22.03	22.50
3GPP Rel 6	HSUPA Subtest-2	22.01	22.05	22.07	22.50	22.06	22.09	22.06	22.50
3GPP Rel 6	HSUPA Subtest-3	21.98	22.03	22.04	22.50	21.97	22.07	21.98	22.50
3GPP Rel 6	HSUPA Subtest-4	21.97	22.04	22.02	22.50	22.01	22.03	21.98	22.50
3GPP Rel 6	HSUPA Subtest-5	21.48	21.52	21.51	22.00	21.50	21.56	21.52	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-	21.51	21.53	21.49	22.00	21.48	21.55	21.50	22.00
Antenna		Ant.4				Ant.4			

Band		CDMA2000 BC0			Tune-up Limit (dBm)	CDMA2000 BC1			Tune-up Limit (dBm)
TX Channel		1013	384	777		25	600	1175	
Frequency (MHz)		824.7	836.52	848.31		1851.25	1880	1908.75	
RC1 SO55		24.07	24.12	24.08	24.50	23.93	23.98	23.94	24.50
RC3 SO55		24.11	24.13	24.13	24.50	24.00	24.02	24.02	24.50
RC3 SO32 (F+SCH)		24.11	24.09	24.10	24.50	23.98	23.96	23.97	24.50
RC3 SO32 (+SCH)		23.60	24.06	23.87	24.50	23.99	24.01	24.02	24.50
RTAP 153.6Kbps		23.90	24.16	24.04	24.50	24.03	24.05	24.01	24.50
RETAP 4096Bits		23.15	23.37	23.01	24.00	23.81	23.91	23.86	24.50
Antenna		Ant.1				Ant.2			

Band	CDMA2000 BC1			Tune-up Limit (dBm)
	25	600	1175	
TX Channel	1851.25	1880	1908.75	
Frequency (MHz)				
RC1 SO55	22.93	22.96	22.82	23.50
RC3 SO55	22.95	22.96	22.97	23.50
RC3 SO32 (F+SCH)	22.95	22.98	22.95	23.50
RC3 SO32 (+SCH)	22.91	22.94	22.97	23.50
RTAP 153.6Kbps	22.95	23.03	22.96	23.50
RETAP 4096Bits	22.92	22.86	22.80	23.50
Antenna	Ant.4			

3	QPSK	8	4	23.12	23.09	22.99	24.00
3	QPSK	8	7	23.14	23.07	22.96	
3	QPSK	15	0	23.20	23.10	23.07	
3	16QAM	1	0	23.41	23.49	23.37	24.00
3	16QAM	1	8	23.35	23.30	23.49	
3	16QAM	1	14	23.18	23.33	23.23	
3	16QAM	8	0	22.19	22.22	21.97	23.00
3	16QAM	8	4	22.12	22.00	21.99	
3	16QAM	8	7	22.09	22.08	21.97	
3	16QAM	15	0	22.22	22.00	22.03	23.00
3	64QAM	1	0	22.07	22.34	22.50	
3	64QAM	1	8	22.28	22.39	22.28	
3	64QAM	1	14	22.52	22.40	22.40	22.00
3	64QAM	8	0	21.17	20.79	21.20	
3	64QAM	8	4	21.29	20.87	21.01	
3	64QAM	8	7	20.89	21.07	20.95	22.00
3	64QAM	15	0	21.09	21.14	21.03	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	24.19	24.07	23.95	25.00
1.4	QPSK	1	3	23.92	23.94	24.04	
1.4	QPSK	1	5	23.96	24.05	24.00	
1.4	QPSK	3	0	23.18	23.19	23.05	
1.4	QPSK	3	1	23.18	22.97	22.98	
1.4	QPSK	3	3	23.03	23.05	22.94	24.00
1.4	QPSK	6	0	23.14	23.09	23.01	
1.4	16QAM	1	0	23.36	23.61	23.65	
1.4	16QAM	1	3	23.63	23.35	23.47	24.00
1.4	16QAM	1	5	23.28	23.26	23.30	
1.4	16QAM	3	0	22.19	22.11	22.20	
1.4	16QAM	3	1	22.21	22.17	21.97	23.00
1.4	16QAM	3	3	22.10	22.05	22.06	
1.4	16QAM	6	0	22.19	22.05	22.00	
1.4	64QAM	1	0	22.09	22.12	22.32	23.00
1.4	64QAM	1	3	22.06	22.39	22.00	
1.4	64QAM	1	5	21.99	22.34	22.09	
1.4	64QAM	3	0	21.20	20.80	21.09	
1.4	64QAM	3	1	21.21	20.99	21.06	
1.4	64QAM	3	3	21.01	21.09	20.98	22.00
1.4	64QAM	6	0	20.94	21.03	21.09	

3	QPSK	8	4	20.38	20.13	20.31	22.00
3	QPSK	8	7	20.30	20.24	20.28	
3	QPSK	15	0	20.43	20.36	20.34	
3	16QAM	1	0	20.53	20.50	20.41	22.00
3	16QAM	1	8	20.42	20.37	20.44	
3	16QAM	1	14	20.40	20.31	20.26	
3	16QAM	8	0	19.31	19.41	19.31	22.00
3	16QAM	8	4	19.46	19.20	19.18	
3	16QAM	8	7	19.38	19.32	19.25	
3	16QAM	15	0	19.35	19.34	19.28	20.00
3	64QAM	1	0	19.31	19.32	19.48	
3	64QAM	1	8	19.39	19.45	19.26	
3	64QAM	1	14	19.08	19.44	19.35	19.00
3	64QAM	8	0	18.54	17.84	18.37	
3	64QAM	8	4	18.38	18.01	18.24	
3	64QAM	8	7	18.06	18.27	18.31	19.00
3	64QAM	15	0	18.19	18.29	18.30	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.12	21.16	21.16	21.50
1.4	QPSK	1	3	21.03	20.96	20.98	
1.4	QPSK	1	5	21.01	21.02	21.00	
1.4	QPSK	3	0	20.31	20.34	20.28	
1.4	QPSK	3	1	20.28	20.03	20.21	
1.4	QPSK	3	3	20.20	20.14	20.18	21.50
1.4	QPSK	6	0	20.33	20.26	20.24	
1.4	16QAM	1	0	20.43	20.40	20.31	
1.4	16QAM	1	3	20.32	20.27	20.34	21.50
1.4	16QAM	1	5	20.30	20.21	20.16	
1.4	16QAM	3	0	19.21	19.31	19.21	
1.4	16QAM	3	1	19.36	19.10	19.08	21.50
1.4	16QAM	3	3	19.28	19.22	19.15	
1.4	16QAM	6	0	19.12	19.14	19.08	
1.4	64QAM	1	0	19.21	19.22	19.38	19.50
1.4	64QAM	1	3	19.29	19.35	19.16	
1.4	64QAM	1	5	18.98	19.34	19.25	
1.4	64QAM	3	0	18.44	17.74	18.27	
1.4	64QAM	3	1	18.28	17.91	18.14	
1.4	64QAM	3	3	17.96	18.17	18.21	19.00
1.4	64QAM	6	0	18.09	18.19	18.20	

3	QPSK	8	4	23.34	23.31	23.21	24.00
3	QPSK	8	7	23.36	23.29	23.18	
3	QPSK	15	0	23.42	23.32	23.29	
3	16QAM	1	0	23.63	23.71	23.59	24.00
3	16QAM	1	8	23.57	23.52	23.71	
3	16QAM	1	14	23.40	23.55	23.45	
3	16QAM	8	0	22.41	22.44	22.19	23.00
3	16QAM	8	4	22.34	22.22	22.21	
3	16QAM	8	7	22.31	22.30	22.19	
3	16QAM	15	0	22.44	22.22	22.25	23.00
3	16QAM	1	0	22.29	22.56	22.72	
3	16QAM	1	8	22.50	22.61	22.50	
3	16QAM	1	14	22.74	22.62	22.62	22.00
3	16QAM	8	0	21.39	21.01	21.42	
3	16QAM	8	4	21.51	21.09	21.23	
3	16QAM	8	7	21.11	21.29	21.17	25.00
3	16QAM	15	0	21.31	21.36	21.25	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	24.41	24.29	24.17	24.00
1.4	QPSK	1	3	24.14	24.16	24.26	
1.4	QPSK	1	5	24.18	24.27	24.22	
1.4	QPSK	3	0	23.40	23.41	23.27	
1.4	QPSK	3	1	23.40	23.19	23.20	
1.4	QPSK	3	3	23.25	23.27	23.16	24.00
1.4	QPSK	6	0	23.36	23.31	23.23	
1.4	16QAM	1	0	23.58	23.83	23.87	
1.4	16QAM	1	3	23.85	23.57	23.69	
1.4	16QAM	1	5	23.50	23.48	23.52	
1.4	16QAM	3	0	22.41	22.33	22.42	23.00
1.4	16QAM	3	1	22.43	22.39	22.19	
1.4	16QAM	3	3	22.32	22.27	22.28	
1.4	16QAM	6	0	22.41	22.27	22.22	
1.4	16QAM	1	0	22.31	22.34	22.54	
1.4	16QAM	1	3	22.28	22.61	22.22	23.00
1.4	16QAM	1	5	22.21	22.56	22.31	
1.4	16QAM	3	0	21.42	21.02	21.31	
1.4	16QAM	3	1	21.43	21.21	21.28	
1.4	16QAM	3	3	21.23	21.31	21.20	
1.4	16QAM	6	0	21.16	21.25	21.31	22.00

3	QPSK	8	4	21.98	21.88	21.82	23.50
3	QPSK	8	7	21.86	21.85	21.89	
3	QPSK	15	0	21.94	22.00	21.95	
3	16QAM	1	0	21.89	22.27	22.32	23.50
3	16QAM	1	8	21.96	21.86	21.80	
3	16QAM	1	14	22.36	22.13	21.95	
3	16QAM	8	0	21.04	21.04	20.96	23.50
3	16QAM	8	4	20.96	20.87	20.96	
3	16QAM	8	7	20.98	20.89	20.88	
3	16QAM	15	0	20.98	20.93	20.95	21.50
3	16QAM	1	0	20.90	21.12	21.12	
3	16QAM	1	8	21.14	21.13	21.09	
3	16QAM	1	14	20.65	20.87	21.25	20.50
3	16QAM	8	0	20.04	19.58	19.99	
3	16QAM	8	4	20.02	19.56	19.86	
3	16QAM	8	7	19.70	19.88	19.92	23.50
3	16QAM	15	0	19.78	20.01	20.00	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.98	23.00	22.91	23.50
1.4	QPSK	1	3	22.84	22.82	22.70	
1.4	QPSK	1	5	22.62	22.69	22.61	
1.4	QPSK	3	0	21.96	22.00	21.87	
1.4	QPSK	3	1	22.02	21.90	21.92	
1.4	QPSK	3	3	21.84	21.86	21.86	23.50
1.4	QPSK	6	0	22.04	21.92	21.96	
1.4	16QAM	1	0	21.94	22.19	22.23	
1.4	16QAM	1	3	22.22	22.32	22.06	
1.4	16QAM	1	5	22.00	21.97	22.15	
1.4	16QAM	3	0	20.92	21.02	21.00	23.50
1.4	16QAM	3	1	20.83	20.89	20.87	
1.4	16QAM	3	3	20.82	20.98	20.94	
1.4	16QAM	6	0	20.97	20.90	21.00	
1.4	16QAM	1	0	21.09	20.84	21.14	
1.4	16QAM	1	3	20.90	20.84	20.88	21.50
1.4	16QAM	1	5	20.81	21.01	21.03	
1.4	16QAM	3	0	20.23	20.24	19.91	
1.4	16QAM	3	1	19.97	20.09	19.89	
1.4	16QAM	3	3	20.14	19.81	19.84	
1.4	16QAM	6	0	19.72	19.92	19.99	20.50

LTE Band 7 (Ant.4)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	23.50
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.08	23.18	23.01	23.50
20	QPSK	1	49	22.67	22.87	22.81	
20	QPSK	1	99	22.89	22.88	22.94	23.50
20	QPSK	50	0	22.03	22.05	22.02	
20	QPSK	50	24	22.04	22.00	22.01	23.50
20	QPSK	50	50	21.98	22.10	22.03	
20	QPSK	100	0	21.98	22.00	21.97	23.50
20	16QAM	1	0	21.76	22.01	22.18	
20	16QAM	1	49	21.96	22.44	22.12	23.50
20	16QAM	1	99	22.38	22.39	22.37	
20	16QAM	50	0	20.92	20.93	21.00	23.50
20	16QAM	50	24	21.03	20.99	21.02	
20	16QAM	50	50	21.10	21.04	21.16	23.50
20	16QAM	100	0	21.00	21.00	21.05	
20	64QAM	1	0	21.01	20.97	20.87	23.50
20	64QAM	1	49	20.94	20.98	21.32	
20	64QAM	1	99	21.05	21.23	21.10	23.50
20	64QAM	50	0	19.90	19.97	20.01	
20	64QAM	50	24	20.00	20.09	20.10	23.50
20	64QAM	50	50	20.11	20.07	19.96	
20	64QAM	100	0	19.97	20.04	20.04	
Channel				20825	21100	21375	23.50
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.81	22.81	22.86	23.50
15	QPSK	1	37	22.85	22.85	22.86	
15	QPSK	1	74	22.94	22.90	22.96	23.50
15	QPSK	36	0	21.99	21.95	21.91	
15	QPSK	36	20	22.02	22.09	22.06	23.50
15	QPSK	36	39	22.03	22.00	22.04	
15	QPSK	75	0	22.01	22.01	22.07	23.50
15	16QAM	1	0	22.13	22.15	21.87	
15	16QAM	1	37	22.17	22.44	22.13	23.50
15	16QAM	1	74	22.08	22.58	22.22	
15	16QAM	36	0	21.00	20.87	20.91	23.50
15	16QAM	36	20	21.05	21.02	21.05	
15	16QAM	36	39	20.97	21.04	21.01	23.50
15	16QAM	75	0	21.02	21.08	20.99	
15	64QAM	1	0	21.05	21.23	21.07	23.50
15	64QAM	1	37	21.03	21.04	21.11	
15	64QAM	1	74	20.98	21.15	21.09	23.50
15	64QAM	36	0	20.02	19.99	20.03	
15	64QAM	36	20	20.00	20.05	20.01	23.50
15	64QAM	36	39	20.14	20.03	20.09	
15	64QAM	75	0	20.07	19.96	19.96	
Channel				20800	21100	21400	23.50
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.67	22.87	22.78	23.50
10	QPSK	1	25	22.84	23.00	22.82	
10	QPSK	1	49	22.89	22.81	22.84	23.50
10	QPSK	25	0	21.92	21.91	21.86	
10	QPSK	25	12	21.97	22.03	22.09	23.50
10	QPSK	25	25	21.99	22.08	21.98	
10	QPSK	50	0	22.06	22.08	22.08	23.50
10	16QAM	1	0	22.03	22.34	22.12	
10	16QAM	1	25	22.09	22.17	22.18	23.50
10	16QAM	1	49	22.21	21.93	22.35	
10	16QAM	25	0	20.85	20.96	20.81	23.50
10	16QAM	25	12	20.97	21.05	21.11	
10	16QAM	25	25	21.11	20.90	20.92	23.50
10	16QAM	50	0	21.00	20.98	21.15	
10	64QAM	1	0	20.86	21.13	20.87	23.50
10	64QAM	1	25	21.28	21.14	21.27	
10	64QAM	1	49	21.42	20.96	21.31	23.50
10	64QAM	25	0	19.97	19.98	19.97	
10	64QAM	25	12	20.01	20.15	20.15	23.50
10	64QAM	25	25	19.96	20.04	20.06	
10	64QAM	50	0	20.08	20.05	19.95	
Channel				20775	21100	21425	23.50
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.87	22.85	22.81	23.50
5	QPSK	1	12	22.84	22.82	23.07	
5	QPSK	1	24	22.86	22.90	23.02	23.50
5	QPSK	12	0	21.93	22.06	21.99	
5	QPSK	12	7	21.94	22.03	22.01	23.50
5	QPSK	12	13	21.97	22.06	21.98	
5	QPSK	25	0	22.00	22.03	22.06	23.50
5	16QAM	1	0	22.32	22.14	21.83	
5	16QAM	1	12	22.29	22.36	22.13	23.50
5	16QAM	1	24	22.05	22.10	22.16	
5	16QAM	12	0	20.93	21.08	21.08	23.50
5	16QAM	12	7	20.91	21.09	21.09	
5	16QAM	12	13	20.99	20.99	21.08	23.50
5	16QAM	25	0	21.06	21.04	21.02	
5	64QAM	1	0	21.09	21.13	21.25	23.50
5	64QAM	1	12	21.22	21.27	21.31	
5	64QAM	1	24	20.78	21.33	21.41	23.50
5	64QAM	12	0	20.05	20.03	20.04	
5	64QAM	12	7	20.10	20.03	20.08	23.50
5	64QAM	12	13	20.03	20.19	20.05	
5	64QAM	25	0	19.95	20.07	20.03	

LTE Band 12 (Ant.1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23190	25.00
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.42	24.69	24.50	25.00
10	QPSK	1	25	24.54	24.43	24.32	
10	QPSK	1	49	24.49	24.54	24.41	24.00
10	QPSK	25	0	23.65	23.69	23.61	
10	QPSK	25	12	23.64	23.59	23.80	24.00
10	QPSK	25	25	23.58	23.59	23.65	
10	QPSK	50	0	23.78	23.61	23.76	24.50
10	16QAM	1	0	23.73	23.69	23.75	
10	16QAM	1	25	23.69	24.17	24.13	24.50
10	16QAM	1	49	23.77	23.73	23.80	
10	16QAM	25	0	22.70	22.78	22.72	23.00
10	16QAM	25	12	22.70	22.57	22.80	
10	16QAM	25	25	22.64	22.62	22.77	23.00
10	16QAM	50	0	22.66	22.63	22.68	
10	64QAM	1	0	22.76	22.78	22.88	23.00
10	64QAM	1	25	23.02	22.47	22.45	
10	64QAM	1	49	22.92	22.76	23.01	22.00
10	64QAM	25	0	21.54	21.57	21.65	
10	64QAM	25	12	21.71	21.55	21.74	22.00
10	64QAM	25	25	21.69	21.86	21.49	
10	64QAM	50	0	21.67	21.61	21.50	
Channel				23035	23095	23155	25.00
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.63	24.53	24.42	25.00
5	QPSK	1	12	24.49	24.66	24.59	
5	QPSK	1	24	24.44	24.52	24.62	24.00
5	QPSK	12	0	23.68	23.67	23.67	
5	QPSK	12	7	23.71	23.64	23.65	24.00
5	QPSK	12	13	23.64	23.64	23.56	
5	QPSK	25	0	23.69	23.54	23.56	24.50
5	16QAM	1	0	23.71	23.50	24.03	
5	16QAM	1	12	23.71	23.76	24.03	24.50
5	16QAM	1	24	24.10	24.14	23.94	
5	16QAM	12	0	22.66	22.62	22.74	23.00
5	16QAM	12	7	22.73	22.77	22.54	
5	16QAM	12	13	22.65	22.69	22.71	23.00
5	16QAM	25	0	22.66	22.60	22.58	
5	64QAM	1	0	22.67	22.89	22.18	23.00
5	64QAM	1	12	22.76	22.89	22.46	
5	64QAM	1	24	22.54	22.93	22.51	22.00
5	64QAM	12	0	21.54	21.81	21.18	
5	64QAM	12	7	21.63	21.80	21.23	22.00
5	64QAM	12	13	21.81	21.72	21.42	
5	64QAM	25	0	21.76	21.56	21.37	
Channel				23025	23095	23165	25.00
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.55	24.53	24.52	25.00
3	QPSK	1	8	24.58	24.57	24.60	
3	QPSK	1	14	24.54	24.49	24.53	24.00
3	QPSK	8	0	23.62	23.58	23.60	
3	QPSK	8	4	23.64	23.68	23.71	24.00
3	QPSK	8	7	23.59	23.65	23.63	
3	QPSK	15	0	23.70	23.57	23.58	24.50
3	16QAM	1	0	23.75	23.55	23.64	
3	16QAM	1	8	23.71	24.20	24.17	24.50
3	16QAM	1	14	24.06	23.79	23.61	
3	16QAM	8	0	22.66	22.73	22.79	23.00
3	16QAM	8	4	22.73	22.84	22.82	
3	16QAM	8	7	22.74	22.58	22.62	23.00
3	16QAM	15	0	22.74	22.52	22.63	
3	64QAM	1	0	22.45	22.69	22.30	23.00
3	64QAM	1	8	23.01	23.09	22.35	
3	64QAM	1	14				

LTE Band 17 (Ant.1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	25.00
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.32	24.62	24.32	25.00
10	QPSK	1	25	24.35	24.33	24.40	
10	QPSK	1	49	24.59	24.36	24.52	
10	QPSK	25	0	23.46	23.66	23.38	
10	QPSK	25	12	23.61	23.57	23.48	24.00
10	QPSK	25	25	23.60	23.59	23.56	
10	QPSK	50	0	23.40	23.45	23.48	
10	16QAM	1	0	23.89	23.73	23.40	
10	16QAM	1	25	23.89	23.83	23.98	24.50
10	16QAM	1	49	24.04	24.07	23.45	
10	16QAM	25	0	22.48	22.54	22.32	
10	16QAM	25	12	22.48	22.50	22.58	
10	16QAM	25	25	22.54	22.50	22.62	23.00
10	16QAM	50	0	22.40	22.42	22.50	
10	64QAM	1	0	22.77	22.33	22.66	
10	64QAM	1	25	22.30	22.80	22.66	
10	64QAM	1	49	22.51	22.85	22.73	23.00
10	64QAM	25	0	21.50	21.47	21.40	
10	64QAM	25	12	21.55	21.57	21.44	
10	64QAM	25	25	21.54	21.65	21.64	
10	64QAM	50	0	21.49	21.37	21.45	22.00
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)
5	QPSK	1	0	24.44	24.35	24.43	25.00
5	QPSK	1	12	24.58	24.37	24.32	
5	QPSK	1	24	24.45	24.51	24.47	
5	QPSK	12	0	23.53	23.53	23.49	
5	QPSK	12	7	23.57	23.46	23.57	24.00
5	QPSK	12	13	23.60	23.51	23.60	
5	QPSK	25	0	23.60	23.46	23.50	
5	16QAM	1	0	23.94	23.50	23.89	
5	16QAM	1	12	24.01	23.94	23.90	24.50
5	16QAM	1	24	23.86	24.00	23.72	
5	16QAM	12	0	22.46	22.45	22.37	
5	16QAM	12	7	22.59	22.50	22.62	
5	16QAM	12	13	22.67	22.54	22.56	23.00
5	16QAM	25	0	22.51	22.54	22.53	
5	64QAM	1	0	22.71	22.86	22.71	
5	64QAM	1	12	22.67	22.79	22.22	
5	64QAM	1	24	22.96	22.78	22.08	23.00
5	64QAM	12	0	21.69	21.50	21.43	
5	64QAM	12	7	21.67	21.70	21.43	
5	64QAM	12	13	21.63	21.59	21.62	
5	64QAM	25	0	21.54	21.41	21.51	22.00

LTE Band 18 (Ant.1)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				23925			25.00	
Frequency (MHz)				822.5				
15	QPSK	1	0	24.29	24.26	24.26	25.00	
15	QPSK	1	37	24.26	24.22	24.22		
15	QPSK	1	74	24.22	23.45	23.45		
15	QPSK	36	0	23.45	23.32	23.32		
15	QPSK	36	20	23.32	23.37	23.37	24.00	
15	QPSK	36	39	23.37	23.41	23.41		
15	QPSK	75	0	23.41	23.70	23.70		
15	16QAM	1	0	23.70	23.83	23.83		
15	16QAM	1	37	23.83	23.41	23.41	24.00	
15	16QAM	1	74	23.41	22.48	22.48		
15	16QAM	36	0	22.48	22.38	22.38		
15	16QAM	36	20	22.38	22.37	22.37		
15	16QAM	36	39	22.37	22.36	22.36	23.00	
15	16QAM	75	0	22.36	22.51	22.51		
15	64QAM	1	0	22.51	22.58	22.58		
15	64QAM	1	25	22.58	22.53	22.53		
15	64QAM	1	49	22.53	21.48	21.48	22.00	
15	64QAM	25	0	21.48	21.35	21.35		
15	64QAM	25	12	21.35	21.45	21.45		
15	64QAM	25	25	21.45	21.34	21.34		
15	64QAM	50	0	21.34	23.900	23925	23950	Tune-up limit (dBm)
Channel				23900	23925	23950	Tune-up limit (dBm)	
Frequency (MHz)				820	822.5	825	Tune-up limit (dBm)	
10	QPSK	1	0	24.20	24.23	24.23	25.00	
10	QPSK	1	25	24.24	24.22	24.26		
10	QPSK	1	49	24.25	24.22	24.21		
10	QPSK	25	0	23.38	23.47	23.48		
10	QPSK	25	12	23.40	23.39	23.51	24.00	
10	QPSK	25	25	23.42	23.50	23.48		
10	QPSK	50	0	23.41	23.42	23.48		
10	16QAM	1	0	23.54	23.21	23.96		
10	16QAM	1	25	23.58	23.54	23.66	24.00	
10	16QAM	1	49	23.60	23.44	23.69		
10	16QAM	25	0	22.47	22.46	22.41		
10	16QAM	25	12	22.48	22.37	22.59		
10	16QAM	25	25	22.56	22.53	22.57	23.00	
10	16QAM	50	0	22.51	22.30	22.42		
10	64QAM	1	0	22.66	22.39	22.71		
10	64QAM	1	25	22.29	22.66	22.78		
10	64QAM	1	49	22.23	22.11	22.65	23.00	
10	64QAM	25	0	21.42	21.41	21.57		
10	64QAM	25	12	21.57	21.41	21.53		
10	64QAM	25	25	21.49	21.53	21.58		
10	64QAM	50	0	21.47	21.41	21.55	22.00	
Channel				23875	23925	23975		Tune-up limit (dBm)
Frequency (MHz)				817.5	822.5	827.5	Tune-up limit (dBm)	
5	QPSK	1	0	24.20	24.25	24.23	25.00	
5	QPSK	1	12	24.24	24.25	24.26		
5	QPSK	1	24	24.25	24.24	24.21		
5	QPSK	12	0	23.38	23.49	23.48		
5	QPSK	12	7	23.40	23.37	23.51	24.00	
5	QPSK	12	13	23.42	23.46	23.48		
5	QPSK	25	0	23.41	23.43	23.48		
5	16QAM	1	0	23.54	23.54	23.96		
5	16QAM	1	12	23.58	23.84	23.66	24.00	
5	16QAM	1	24	23.60	23.45	23.69		
5	16QAM	12	0	22.47	22.51	22.41		
5	16QAM	12	7	22.48	22.50	22.59		
5	16QAM	12	13	22.56	22.52	22.57	23.00	
5	16QAM	25	0	22.51	22.50	22.42		
5	64QAM	1	0	22.66	22.83	22.71		
5	64QAM	1	12	22.29	22.74	22.78		
5	64QAM	1	24	22.23	22.67	22.65	23.00	
5	64QAM	12	0	21.42	21.57	21.57		
5	64QAM	12	7	21.57	21.43	21.53		
5	64QAM	12	13	21.49	21.47	21.58		
5	64QAM	25	0	21.47	21.48	21.55	22.00	

LTE Band 19 (Ant.1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075			25.00
Frequency (MHz)				837.5			
15	QPSK	1	0	24.39			25.00
15	QPSK	1	37	24.35			
15	QPSK	1	74	24.23			
15	QPSK	36	0	23.52			
15	QPSK	36	20	23.41			
15	QPSK	36	39	23.49			24.00
15	QPSK	75	0	23.49			
15	16QAM	1	0	23.85			
15	16QAM	1	37	23.87			
15	16QAM	1	74	23.76			
15	16QAM	36	0	22.46			24.00
15	16QAM	36	20	22.46			
15	16QAM	36	39	22.37			
15	16QAM	75	0	22.46			
15	16QAM	1	0	22.48			
15	64QAM	1	0	22.48			23.00
15	64QAM	1	25	22.59			
15	64QAM	1	49	22.43			
15	64QAM	25	0	21.61			
15	64QAM	25	12	21.44			
15	64QAM	25	25	21.42			22.00
15	64QAM	50	0	21.47			
Channel				24050	24075	24100	
Frequency (MHz)				835	837.5	840	25.00
10	QPSK	1	0	24.41	24.42	24.39	
10	QPSK	1	25	24.21	24.38	24.40	
10	QPSK	1	49	24.26	24.53	24.26	
10	QPSK	25	0	23.39	23.49	23.49	
10	QPSK	25	12	23.60	23.53	23.47	
10	QPSK	25	25	23.54	23.54	23.45	
10	QPSK	50	0	23.49	23.49	23.54	
10	16QAM	1	0	23.70	23.87	23.56	
10	16QAM	1	25	23.57	23.71	23.72	
10	16QAM	1	49	23.97	23.96	23.59	
10	16QAM	25	0	22.35	22.42	22.53	
10	16QAM	25	12	22.49	22.53	22.50	
10	16QAM	25	25	22.44	22.59	22.53	
10	16QAM	50	0	22.45	22.48	22.48	
10	64QAM	1	0	22.61	22.72	22.79	
10	64QAM	1	25	22.38	22.58	22.41	
10	64QAM	1	49	22.87	22.71	22.67	
10	64QAM	25	0	21.53	21.39	21.52	
10	64QAM	25	12	21.54	21.43	21.53	
10	64QAM	25	25	21.55	21.50	21.55	
10	64QAM	50	0	21.57	21.52	21.54	
Channel				24025	24075	24125	25.00
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	24.43	24.46	24.39	
5	QPSK	1	12	24.56	24.45	24.33	
5	QPSK	1	24	24.46	24.43	24.45	
5	QPSK	12	0	23.45	23.46	23.47	
5	QPSK	12	7	23.55	23.48	23.46	
5	QPSK	12	13	23.46	23.45	23.45	
5	QPSK	25	0	23.56	23.50	23.39	
5	16QAM	1	0	23.43	23.99	23.98	
5	16QAM	1	12	23.37	23.99	23.58	
5	16QAM	1	24	23.49	23.41	23.56	
5	16QAM	12	0	22.55	22.58	22.48	
5	16QAM	12	7	22.48	22.54	22.48	
5	16QAM	12	13	22.47	22.53	22.52	
5	16QAM	25	0	22.57	22.52	22.53	
5	64QAM	1	0	22.79	22.82	22.53	
5	64QAM	1	12	22.66	22.78	22.79	
5	64QAM	1	24	22.65	22.37	22.75	
5	64QAM	12	0	21.43	21.49	21.54	
5	64QAM	12	7	21.58	21.51	21.61	
5	64QAM	12	13	21.59	21.63	21.48	
5	64QAM	25	0	21.53	21.43	21.50	

LTE Band 26 (Ant.1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	25.00
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.35	24.49	24.39	
15	QPSK	1	37	24.42	24.39	24.48	
15	QPSK	1	74	24.36	24.41	24.37	
15	QPSK	36	0	23.55	23.67	23.64	
15	QPSK	36	20	23.59	23.65	23.66	
15	QPSK	36	39	23.45	23.51	23.58	
15	QPSK	75	0	23.55	23.51	23.65	
15	16QAM	1	0	23.68	23.74	23.91	
15	16QAM	1	37	23.67	23.75	23.42	
15	16QAM	1	74	23.79	23.92	23.70	
15	16QAM	36	0	22.59	22.64	22.56	
15	16QAM	36	20	22.62	22.60	22.60	
15	16QAM	36	39	22.47	22.67	22.66	
15	16QAM	75	0	22.57	22.58	22.65	
15	64QAM	1	0	22.56	22.40	22.81	
15	64QAM	1	37	22.84	22.78	22.86	
15	64QAM	1	74	22.37	22.71	22.48	
15	64QAM	36	0	21.57	21.67	21.69	
15	64QAM	36	20	21.65	21.46	21.65	
15	64QAM	36	39	21.49	21.60	21.59	
15	64QAM	75	0	21.63	21.64	21.60	
Channel				26740	26865	26990	25.00
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.41	24.35	24.40	
10	QPSK	1	25	24.27	24.25	24.46	
10	QPSK	1	49	24.16	24.25	24.23	
10	QPSK	25	0	23.41	23.45	23.47	
10	QPSK	25	12	23.41	23.48	23.51	
10	QPSK	25	25	23.45	23.43	23.35	
10	QPSK	50	0	23.37	23.38	23.52	
10	16QAM	1	0	23.88	23.61	23.95	
10	16QAM	1	25	23.72	23.98	23.54	
10	16QAM	1	49	23.93	23.66	23.66	
10	16QAM	25	0	22.34	22.40	22.41	
10	16QAM	25	12	22.31	22.39	22.48	
10	16QAM	25	25	22.45	22.49	22.27	
10	16QAM	50	0	22.39	22.44	22.41	
10	64QAM	1	0	22.92	22.71	22.70	
10	64QAM	1	25	22.80	22.58	22.41	
10	64QAM	1	49	22.79	22.30	22.49	
10	64QAM	25	0	21.40	21.51	21.50	
10	64QAM	25	12	21.38	21.44	21.54	
10	64QAM	25	25	21.43	21.43	21.35	
10	64QAM	50	0	21.39	21.45	21.40	
Channel				26715	26865	27015	25.00
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.33	24.39	24.42	
5	QPSK	1	12	24.33	24.39	24.41	
5	QPSK	1	24	24.32	24.40	24.40	
5	QPSK	12	0	23.39	23.46	23.40	
5	QPSK	12	7	23.42	23.35	23.34	
5	QPSK	12	13	23.34	23.45	23.39	
5	QPSK	25	0	24.28	24.39	24.33	
5	16QAM	1	0	23.92	23.41	23.69	
5	16QAM	1	12	23.62	23.89	23.70	
5	16QAM	1	24	23.55	23.73	23.71	
5	16QAM	12	0	22.46	22.38	22.44	
5	16QAM	12	7	22.47	22.50	22.52	
5	16QAM	12	13	22.38	22.42	22.46	
5	16QAM	25	0	23.51	23.54	23.46	
5	64QAM	1	0	22.36	22.71	22.48	
5	64QAM	1	12	22.64	22.79	22.73	
5	64QAM	1	24	22.72	22.72	22.73	
5	64QAM	12	0	21.42	21.42	21.42	
5	64QAM	12	7	21.41	21.52	21.49	
5	64QAM	12	13	21.42	21.51	21.42	
5	64QAM	25	0	22.53	22.51	22.52	
Channel				26705	26865	27025	25.00
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.37	24.37	24.31	
3	QPSK	1	8	24.43	24.44	24.45	
3	QPSK	1	14	24.26	24.26	24.33	
3	QPSK	8	0	23.45	23.45	23.41	
3	QPSK	8	4	23.52	23.52	23.52	
3	QPSK	8	7	23.41	23.41	23.41	
3	QPSK	15	0	23.42	23.42	23.43	
3	16QAM	1	0	23.47	23.47	23.46	
3	16QAM	1	8	23.73	23.73	23.62	
3	16QAM	1	14	23.47	23.47	23.57	
3	16QAM	8	0	22.53	22.53	22.38	
3	16QAM	8	4	22.49	22.49	22.47	
3	16QAM	8	7	22.48	22.48	22.52	
3	16QAM	15	0	22.33	22.33	22.45	
3	64QAM	1	0	22.52	22.52	22.65	
3	64QAM	1	8	22.85	22.85	22.52	
3	64QAM	1	14	22.83	22.83	22.68	
3	64QAM	8	0	21.54	21.54	21.51	
3	64QAM	8	4	21.62	21.62	21.41	
3	64QAM	8	7	21.50	21.50	21.43	
3	64QAM	15	0	21.37	21.37	21.33	
Channel				26697	26865	27033	25.00
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	24.28	24.30	24.31	
1.4	QPSK	1	3	24.27	24.35	24.29	
1.4	QPSK	1	5	24.16	24.21	24.23	
1.4	QPSK	3	0	24.31	24.22	24.31	

1.4	QPSK	3	1	24.29	24.36	24.38	
1.4	QPSK	3	3	24.21	24.28	24.30	
1.4	QPSK	6	0	23.29	23.34	23.43	24.00
1.4	16QAM	1	0	23.42	23.68	23.66	
1.4	16QAM	1	3	23.55	23.87	23.49	
1.4	16QAM	1	5	23.77	23.48	23.76	
1.4	16QAM	3	0	23.20	23.45	23.40	24.00
1.4	16QAM	3	1	23.37	23.41	23.48	
1.4	16QAM	3	3	23.41	23.44	23.34	
1.4	16QAM	6	0	22.33	22.43	22.50	23.00
1.4	16QAM	1	0	22.62	22.65	22.59	
1.4	16QAM	1	3	22.63	22.64	22.33	
1.4	16QAM	1	5	22.31	22.63	22.38	
1.4	16QAM	3	0	22.50	22.50	22.60	23.00
1.4	16QAM	3	1	22.45	22.61	22.51	
1.4	16QAM	3	3	22.60	22.61	22.57	
1.4	16QAM	6	0	21.34	21.34	21.38	22.00

LTE Band 38 (Ant.2)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel		Tune-up limit (dBm)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	24.05	24.17	24.10	25.00	
20	QPSK	1	49	24.16	24.04	24.13		
20	QPSK	1	99	24.07	24.04	24.08		
20	QPSK	50	0	23.34	23.48	23.30	24.00	
20	QPSK	50	24	23.39	23.45	23.31		
20	QPSK	50	50	23.40	23.33	23.34		
20	QPSK	100	0	23.42	23.33	23.26	24.00	
20	16QAM	1	0	23.56	23.41	23.43		
20	16QAM	1	49	23.45	23.35	23.48		
20	16QAM	1	99	23.46	23.38	23.46	23.00	
20	16QAM	50	0	22.25	22.38	22.33		
20	16QAM	50	24	22.38	22.36	22.28		
20	16QAM	50	50	22.45	22.42	22.30	23.00	
20	16QAM	100	0	22.37	22.42	22.34		
20	64QAM	1	0	22.29	22.25	22.22		
20	64QAM	1	49	22.32	22.25	22.38	23.00	
20	64QAM	1	99	22.32	22.35	22.39		
20	64QAM	50	0	21.39	21.37	21.34		
20	64QAM	50	24	21.44	21.38	21.35	22.00	
20	64QAM	50	50	21.43	21.35	21.44		
20	64QAM	100	0	21.45	21.37	21.26		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	24.08	24.16	24.10	25.00	
15	QPSK	1	37	24.16	24.12	24.17		
15	QPSK	1	74	24.06	24.02	24.04		
15	QPSK	36	0	23.37	23.31	23.31	24.00	
15	QPSK	36	20	23.40	23.35	23.37		
15	QPSK	36	39	23.42	23.39	23.32		
15	QPSK	75	0	23.44	23.42	23.35	24.00	
15	16QAM	1	0	23.44	23.41	23.39		
15	16QAM	1	37	23.35	23.39	23.44		
15	16QAM	1	74	23.52	23.46	23.49	23.00	
15	16QAM	36	0	22.35	22.29	22.34		
15	16QAM	36	20	22.28	22.28	22.29		
15	16QAM	36	39	22.33	22.29	22.28	23.00	
15	16QAM	75	0	22.39	22.35	22.32		
15	64QAM	1	0	22.44	22.25	22.20		
15	64QAM	1	37	22.33	22.35	22.28	23.00	
15	64QAM	1	74	22.30	22.23	22.33		
15	64QAM	36	0	21.40	21.30	21.25		
15	64QAM	36	20	21.33	21.42	21.31	22.00	
15	64QAM	36	39	21.43	21.31	21.37		
15	64QAM	75	0	21.41	21.39	21.34		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	24.17	24.14	24.11	25.00	
10	QPSK	1	25	24.13	24.11	24.07		
10	QPSK	1	49	24.05	24.12	24.12		
10	QPSK	25	0	23.44	23.30	23.34	24.00	
10	QPSK	25	12	23.48	23.39	23.33		
10	QPSK	25	25	23.40	23.45	23.36		
10	QPSK	50	0	23.45	23.41	23.33	24.00	
10	16QAM	1	0	23.59	23.50	23.68		
10	16QAM	1	25	23.48	23.50	23.52		
10	16QAM	1	49	23.52	23.49	23.51	23.00	
10	16QAM	25	0	22.44	22.29	22.21		
10	16QAM	25	12	22.47	22.44	22.42		
10	16QAM	25	25	22.42	22.34	22.33	23.00	
10	16QAM	50	0	22.47	22.46	22.44		
10	64QAM	1	0	22.58	22.54	22.51		
10	64QAM	1	25	22.58	22.61	22.55	23.00	
10	64QAM	1	49	22.43	22.58	22.37		
10	64QAM	25	0	21.46	21.44	21.45		
10	64QAM	25	12	21.45	21.41	21.31	22.00	
10	64QAM	25	25	21.47	21.44	21.41		
10	64QAM	50	0	21.42	21.39	21.45		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	24.08	24.12	24.14	25.00	
5	QPSK	1	12	24.10	24.09	24.10		
5	QPSK	1	24	24.13	24.15	24.11		
5	QPSK	12	0	23.38	23.36	23.22	24.00	
5	QPSK	12	7	23.41	23.40	23.28		
5	QPSK	12	13	23.37	23.36	23.34		
5	QPSK	25	0	23.40	23.36	23.23	24.00	
5	16QAM	1	0	23.58	23.54	23.45		
5	16QAM	1	12	23.55	23.47	23.52		
5	16QAM	1	24	23.59	23.51	23.46	23.00	
5	16QAM	12	0	22.38	22.33	22.31		
5	16QAM	12	7	22.46	22.46	22.34		
5	16QAM	12	13	22.34	22.37	22.36	23.00	
5	16QAM	25	0	22.39	22.34	22.33		
5	64QAM	1	0	22.43	22.45	22.42		
5	64QAM	1	12	22.40	22.46	22.43	23.00	
5	64QAM	1	24	22.46	22.43	22.44		
5	64QAM	12	0	21.49	21.47	21.33		
5	64QAM	12	7	21.47	21.36	21.35	22.00	
5	64QAM	12	13	21.39	21.36	21.46		
5	64QAM	25	0	21.45	21.43	21.33		

LTE Band 38 (Ant.4)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel		Tune-up limit (dBm)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	22.85	23.04	22.91	23.50	
20	QPSK	1	49	22.90	22.88	22.83		
20	QPSK	1	99	22.87	22.96	22.84		
20	QPSK	50	0	22.15	22.28	22.14	22.50	
20	QPSK	50	24	22.29	22.24	22.08		
20	QPSK	50	50	22.22	22.22	22.16		
20	QPSK	100	0	22.25	22.22	22.15	22.50	
20	16QAM	1	0	22.22	22.29	22.20		
20	16QAM	1	49	22.37	22.25	22.29		
20	16QAM	1	99	22.26	22.30	22.21	21.50	
20	16QAM	50	0	21.16	21.26	21.19		
20	16QAM	50	24	21.16	21.23	21.11		
20	16QAM	50	50	21.18	21.24	21.29	22.50	
20	16QAM	100	0	21.30	21.26	21.03		
20	64QAM	1	0	21.14	21.15	21.11		
20	64QAM	1	49	21.11	21.14	21.08	21.50	
20	64QAM	1	99	21.13	21.11	21.15		
20	64QAM	50	0	20.18	20.18	20.19		
20	64QAM	50	24	20.29	20.30	20.18	20.50	
20	64QAM	50	50	20.17	20.19	20.23		
20	64QAM	100	0	20.29	20.30	20.11		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.99	22.92	22.90	23.50	
15	QPSK	1	37	22.95	23.03	22.95		
15	QPSK	1	74	22.91	23.02	22.87		
15	QPSK	36	0	22.09	22.11	22.16	22.50	
15	QPSK	36	20	22.23	22.27	22.10		
15	QPSK	36	39	22.12	22.17	22.18		
15	QPSK	75	0	22.23	22.29	22.17	22.50	
15	16QAM	1	0	22.24	22.38	22.15		
15	16QAM	1	37	22.18	22.27	22.22		
15	16QAM	1	74	22.29	22.36	22.20	22.50	
15	16QAM	36	0	21.22	21.12	21.06		
15	16QAM	36	20	21.15	21.18	21.11		
15	16QAM	36	39	21.17	21.21	21.14	21.50	
15	16QAM	75	0	21.22	21.20	21.17		
15	64QAM	1	0	21.00	21.12	20.95		
15	64QAM	1	37	21.15	21.21	21.16	20.50	
15	64QAM	1	74	21.23	21.12	21.11		
15	64QAM	36	0	20.19	20.15	20.12		
15	64QAM	36	20	20.21	20.19	20.22	20.50	
15	64QAM	36	39	20.18	20.24	20.15		
15	64QAM	75	0	20.26	20.18	20.18		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	23.02	22.99	22.95	23.50	
10	QPSK	1	25	23.01	23.02	22.99		
10	QPSK	1	49	23.01	23.02	23.01		
10	QPSK	25	0	22.26	22.20	22.21	22.50	
10	QPSK	25	12	22.26	22.30	22.13		
10	QPSK	25	25	22.32	22.20	22.15		
10	QPSK	50	0	22.30	22.23	22.24	22.50	
10	16QAM	1	0	22.38	22.37	22.43		
10	16QAM	1	25	22.31	22.38	22.30		
10	16QAM	1	49	22.57	22.35	22.23	22.50	
10	16QAM	25	0	21.29	21.03	21.18		
10	16QAM	25	12	21.24	21.38	21.12		
10	16QAM	25	25	21.17	21.29	21.20	21.50	
10	16QAM	50	0	21.32	21.23	21.22		
10	64QAM	1	0	21.33	21.35	21.36		
10	64QAM	1	25	21.23	21.22	21.25	21.50	
10	64QAM	1	49	21.10	21.41	21.23		
10	64QAM	25	0	20.33	20.16	20.21		
10	64QAM	25	12	20.28	20.25	20.25	21.50	
10	64QAM	25	25	20.27	20.34	20.31		
10	64QAM	50	0	20.20	20.25	20.26		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.02	23.00	22.99	23.50	
5	QPSK	1	12	23.01	22.97	22.95		
5	QPSK	1	24	23.02	23.03	22.94		
5	QPSK	12	0	22.19	22.23	22.14	22.50	
5	QPSK	12	7	22.23	22.31	22.23		
5	QPSK	12	13	22.17	22.28	22.18		
5	QPSK	25	0	22.25	22.20	22.19	22.50	
5	16QAM	1	0	22.41	22.43	22.30		
5	16QAM	1	12	22.37	22.35	22.33		
5	16QAM	1	24	22.44	22.43	22.29	22.50	
5	16QAM	12	0	21.32	21.26	21.26		
5	16QAM	12	7	21.31	21.30	21.17		
5	16QAM	12	13	21.27	21.27	21.19	21.50	
5	16QAM	25	0	21.28	21.22	21.14		
5	64QAM	1	0	21.20	21.27	21.18		
5	64QAM	1	12	21.26	21.22	21.25	21.50	
5	64QAM	1	24	21.27	21.34	21.28		
5	64QAM	12	0	20.32	20.26	20.19		
5	64QAM	12	7	20.31				

LTE Band 40A (Ant.2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	24.13			25.00
10	QPSK	1	25	24.01			
10	QPSK	1	49	24.11			
10	QPSK	25	0	23.23			24.00
10	QPSK	25	12	23.20			
10	QPSK	25	25	23.22			
10	QPSK	50	0	23.30			24.00
10	16QAM	1	0	23.46			
10	16QAM	1	25	23.37			
10	16QAM	1	49	23.36			23.00
10	16QAM	25	0	22.35			
10	16QAM	25	12	22.32			
10	16QAM	25	25	22.19			23.00
10	16QAM	50	0	22.25			
10	64QAM	1	0	22.35			
10	64QAM	1	25	22.25			23.00
10	64QAM	1	49	22.29			
10	64QAM	25	0	21.29			
10	64QAM	25	12	21.33			22.00
10	64QAM	25	25	21.29			
10	64QAM	50	0	21.21			
Channel				38725	38750	38775	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	QPSK	1	0	23.93	24.01	23.88	25.00
5	QPSK	1	12	23.83	23.80	23.79	
5	QPSK	1	24	23.78	23.84	23.82	
5	QPSK	12	0	22.97	23.04	23.05	24.00
5	QPSK	12	7	22.98	23.01	23.06	
5	QPSK	12	13	23.07	22.97	23.01	
5	QPSK	25	0	22.98	23.08	23.06	24.00
5	16QAM	1	0	23.25	23.33	23.20	
5	16QAM	1	12	23.25	23.23	23.28	
5	16QAM	1	24	23.16	23.20	23.23	23.00
5	16QAM	12	0	22.00	22.12	22.10	
5	16QAM	12	7	22.03	22.08	22.07	
5	16QAM	12	13	22.02	22.09	22.08	23.00
5	16QAM	25	0	22.05	22.09	22.07	
5	64QAM	1	0	22.13	22.18	22.07	
5	64QAM	1	12	22.05	22.03	22.10	23.00
5	64QAM	1	24	22.09	22.07	22.15	
5	64QAM	12	0	21.13	21.05	21.09	
5	64QAM	12	7	21.14	21.09	21.06	22.00
5	64QAM	12	13	21.04	21.12	21.12	
5	64QAM	25	0	21.08	21.14	21.15	

LTE Band 40A (Ant.4)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	22.91			23.50
10	QPSK	1	25	22.65			
10	QPSK	1	49	22.67			
10	QPSK	25	0	21.94			23.50
10	QPSK	25	12	21.92			
10	QPSK	25	25	21.88			
10	QPSK	50	0	21.92			23.50
10	16QAM	1	0	22.11			
10	16QAM	1	25	22.03			
10	16QAM	1	49	21.92			23.50
10	16QAM	25	0	21.08			
10	16QAM	25	12	20.96			
10	16QAM	25	25	20.93			23.50
10	16QAM	50	0	20.96			
10	64QAM	1	0	20.97			
10	64QAM	1	25	21.27			23.50
10	64QAM	1	49	20.88			
10	64QAM	25	0	20.13			
10	64QAM	25	12	20.08			23.50
10	64QAM	25	25	20.00			
10	64QAM	50	0	20.01			
Channel				38725	38750	38775	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	QPSK	1	0	22.83	22.88	22.82	23.50
5	QPSK	1	12	22.75	22.65	22.71	
5	QPSK	1	24	22.70	22.75	22.80	
5	QPSK	12	0	22.03	21.93	21.88	23.50
5	QPSK	12	7	21.92	21.94	21.88	
5	QPSK	12	13	21.88	21.96	21.86	
5	QPSK	25	0	22.00	21.94	21.86	23.50
5	16QAM	1	0	22.19	22.13	22.07	
5	16QAM	1	12	22.04	22.04	22.06	
5	16QAM	1	24	22.09	22.09	22.10	23.50
5	16QAM	12	0	21.05	20.90	21.04	
5	16QAM	12	7	21.01	20.96	20.95	
5	16QAM	12	13	20.89	21.01	21.00	23.50
5	16QAM	25	0	20.91	20.95	20.91	
5	64QAM	1	0	21.13	21.13	20.99	
5	64QAM	1	12	20.99	20.99	20.98	23.50
5	64QAM	1	24	21.01	21.00	20.99	
5	64QAM	12	0	20.06	20.01	19.97	
5	64QAM	12	7	20.04	20.00	20.02	23.50
5	64QAM	12	13	19.92	19.97	19.89	
5	64QAM	25	0	19.91	19.94	19.99	

LTE Band 40B (Ant.2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	24.15			25.00
10	QPSK	1	25	24.12			
10	QPSK	1	49	24.06			
10	QPSK	25	0	23.37			24.00
10	QPSK	25	12	23.31			
10	QPSK	25	25	23.30			
10	QPSK	50	0	23.38			24.00
10	16QAM	1	0	23.46			
10	16QAM	1	25	23.43			
10	16QAM	1	49	23.46			23.00
10	16QAM	25	0	22.31			
10	16QAM	25	12	22.35			
10	16QAM	25	25	22.35			23.00
10	16QAM	50	0	22.27			
10	64QAM	1	0	22.27			
10	64QAM	1	25	22.55			23.00
10	64QAM	1	49	22.29			
10	64QAM	25	0	21.26			
10	64QAM	25	12	21.45			22.00
10	64QAM	25	25	21.42			
10	64QAM	50	0	21.33			
Channel				39175	39200	39225	Tune-up limit
Frequency (MHz)				2352.5	2355	2357.5	(dBm)
5	QPSK	1	0	24.00	23.98	24.01	25.00
5	QPSK	1	12	23.82	23.87	23.88	
5	QPSK	1	24	24.01	23.89	24.09	
5	QPSK	12	0	23.10	23.11	23.08	24.00
5	QPSK	12	7	22.99	23.01	23.08	
5	QPSK	12	13	23.14	23.08	23.10	
5	QPSK	25	0	23.04	23.12	23.13	24.00
5	16QAM	1	0	23.27	23.37	23.44	
5	16QAM	1	12	23.18	23.26	23.29	
5	16QAM	1	24	23.27	23.35	23.33	23.00
5	16QAM	12	0	22.17	22.27	22.18	
5	16QAM	12	7	22.04	22.18	22.13	
5	16QAM	12	13	22.12	22.14	22.19	23.00
5	16QAM	25	0	22.09	22.21	22.23	
5	64QAM	1	0	22.16	22.22	22.28	
5	64QAM	1	12	22.15	22.22	22.18	23.00
5	64QAM	1	24	22.26	22.13	22.32	
5	64QAM	12	0	21.13	21.18	21.15	
5	64QAM	12	7	21.20	21.15	21.22	22.00
5	64QAM	12	13	21.16	21.15	21.08	
5	64QAM	25	0	21.17	21.15	21.10	

LTE Band 40B (Ant.4)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	22.89			23.50
10	QPSK	1	25	22.76			
10	QPSK	1	49	22.81			
10	QPSK	25	0	22.09			23.50
10	QPSK	25	12	22.01			
10	QPSK	25	25	21.93			
10	QPSK	50	0	22.09			23.50
10	16QAM	1	0	22.15			
10	16QAM	1	25	22.16			
10	16QAM	1	49	22.08			23.50
10	16QAM	25	0	21.04			
10	16QAM	25	12	21.11			
10	16QAM	25	25	21.13			23.50
10	16QAM	50	0	21.15			
10	64QAM	1	0	20.97			
10	64QAM	1	25	21.26			23.50
10	64QAM	1	49	21.16			
10	64QAM	25	0	20.04			
10	64QAM	25	12	20.11			23.50
10	64QAM	25	25	20.08			
10	64QAM	50	0	20.05			
Channel				39175	39200	39225	Tune-up limit
Frequency (MHz)				2352.5	2355	2357.5	(dBm)
5	QPSK	1	0	22.83	22.88	22.84	23.50
5	QPSK	1	12	22.82	22.83	22.69	
5	QPSK	1	24	22.79	22.83	22.82	
5	QPSK	12	0	22.00	22.08	21.96	23.50
5	QPSK	12	7	21.89	22.12	22.07	
5	QPSK	12	13	22.06	21.98	22.01	
5	QPSK	25	0	22.01	22.06	22.07	23.50
5	16QAM	1	0	22.18	22.32	22.28	
5	16QAM	1	12	22.16	22.29	22.07	
5	16QAM	1	24	22.26	22.26	22.22	23.50
5	16QAM	12	0	21.06	21.08	21.07	
5	16QAM	12	7	21.04	21.14	21.06	
5	16QAM	12	13	21.07	21.10	20.91	23.50
5	16QAM	25	0	21.00	21.09	21.01	
5	64QAM	1	0	21.21	21.06	21.21	
5	64QAM	1	12	21.04	21.03	21.00	23.50
5	64QAM	1	24	21.14	21.12	21.11	
5	64QAM	12	0	20.08	20.08	20.05	
5	64QAM	12	7	19.98	20.05	20.11	23.50
5	64QAM	12	13	20.03	20.07	20.03	
5	64QAM	25	0	19.98	20.04	20.00	

5G NR n41 (Ant.6) for Head										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)	
Channel				513000	516000	519000	522000	525000		
Frequency (MHz)				2565	2580	2595	2610	2625		
100	DFT-s-OFDM Pi/2 BPSK	1	1	23.05	22.85	23.24	23.02	23.03	24	
100		1	136	22.98	22.99	23.11	23.08	22.80		
100		1	272	23.07	22.94	23.16	23.27	22.88		
100		135	1	21.86	21.89	21.99	21.93	22.06		
100		135	67	22.08	22.24	22.21	22.01	22.20		
100	DFT-s-OFDM QPSK	135	136	22.16	21.93	21.95	21.91	22.06	23	
100		270	0	21.98	21.86	21.92	21.73	22.11		
100		1	1	23.24	23.30	23.32	23.23	23.21		
100		1	136	22.92	22.92	23.07	23.18	23.00		
100		1	272	23.05	22.90	23.03	23.10	23.10		
100	DFT-s-OFDM 16QAM	135	67	22.25	22.24	22.34	22.28	22.26	23	
100		135	67	22.15	22.30	22.11	21.98	22.10		
100		135	136	22.31	22.22	22.25	22.33	22.33		
100		270	0	22.31	22.19	22.31	22.23	22.29		
100		1	1	21.04	20.84	21.19	21.05	21.15		
100	DFT-s-OFDM 64QAM	1	136	20.96	20.94	21.09	21.15	21.05	21.5	
100		1	272	20.91	20.93	21.08	21.01	21.20		
100		135	1	20.29	20.21	20.16	19.92	19.85		
100		135	67	20.15	20.24	20.09	19.96	20.02		
100		135	136	19.96	20.05	19.95	20.05	20.05		
100	DFT-s-OFDM 64QAM	270	0	19.93	20.01	20.00	19.94	19.97	21	
100		1	1	20.04	20.03	20.12	20.22	20.12		
100		1	136	19.94	20.15	20.09	20.06	20.15		
100		1	271	20.05	20.08	19.99	20.03	20.11		
100		135	1	18.96	20.03	20.14	19.96	20.00		
100	DFT-s-OFDM 256QAM	135	67	18.99	19.91	20.05	20.13	19.99	20.5	
100		135	136	19.04	19.94	20.15	20.06	20.03		
100		270	0	18.85	19.88	20.07	19.95	19.94		
100		1	1	19.17	19.01	19.03	19.01	19.08		
100		1	136	19.08	19.04	18.97	19.05	19.04		
100	DFT-s-OFDM 256QAM	1	272	19.16	19.08	19.04	19.03	19.02	19.5	
100		135	1	17.89	17.96	18.06	18.03	18.01		
100		135	67	18.05	17.92	17.95	17.85	17.98		
100		135	136	18.13	18.04	18.08	18.04	17.99		
100		270	0	17.96	17.93	18.06	18.01	17.97		
Channel				511000	516000	519000	523000	527000		
Frequency (MHz)				2555	2575	2595	2615	2635		
80	DFT-s-OFDM Pi/2 BPSK	1	1	22.92	22.72	23.11	22.89	22.90	23.5	
80		1	108	22.85	22.86	22.98	22.95	22.67		
80		1	215	22.94	22.81	23.03	23.14	22.75		
80		108	1	21.73	21.76	21.86	21.80	21.93		
80		108	54	21.95	22.11	22.08	21.88	22.07		
80	DFT-s-OFDM QPSK	108	108	22.03	21.80	21.82	21.78	21.93	22.5	
80		216	0	21.85	21.73	21.79	21.60	21.98		
80		1	1	23.11	23.17	23.19	23.10	23.08		
80		1	108	22.79	22.79	22.94	23.05	22.87		
80		1	215	22.92	22.77	22.90	22.97	22.97		
80	DFT-s-OFDM 64QAM	108	1	22.12	22.11	22.21	22.15	22.13	24	
80		108	54	22.02	22.17	21.88	21.85	21.97		
80		108	108	22.18	22.09	22.12	22.20	22.20		
80		216	0	22.18	22.06	22.18	22.10	22.16		
80		1	1	20.91	20.71	21.06	20.92	21.02		
80	DFT-s-OFDM 16QAM	1	108	20.83	20.81	20.96	21.02	20.92	21.5	
80		1	215	20.78	20.80	20.95	20.88	21.07		
80		108	1	20.16	20.08	20.03	19.79	19.72		
80		108	54	20.02	20.11	19.96	19.83	19.89		
80		108	108	19.83	19.92	19.82	19.92	19.92		
80	DFT-s-OFDM 256QAM	216	0	19.80	19.88	19.87	19.81	19.84	20.5	
80		1	1	19.91	19.90	19.99	20.09	19.99		
80		1	108	19.81	20.02	19.96	19.93	20.02		
80		1	215	19.92	19.95	19.86	19.90	19.98		
80		108	1	18.83	19.90	20.01	19.83	19.87		
80	DFT-s-OFDM 64QAM	108	54	19.86	19.78	19.92	20.00	19.86	20.5	
80		108	108	19.91	19.81	20.02	19.93	19.90		
80		216	0	18.72	19.75	19.94	19.82	19.81		
80		1	1	19.04	18.88	18.90	18.88	18.95		
80		1	108	18.95	18.91	18.84	18.92	18.91		
80	DFT-s-OFDM 256QAM	1	215	19.03	18.95	18.91	18.90	18.89	19.5	
80		108	1	17.76	17.83	17.93	17.90	17.88		
80		108	54	17.92	17.79	17.82	17.82	17.85		
80		108	108	18.00	17.91	17.95	17.91	17.86		
80		216	0	17.83	17.80	17.93	17.88	17.84		
Channel				509000	514000	519000	524000	529000		
Frequency (MHz)				2545	2570	2595	2620	2645		
60	DFT-s-OFDM Pi/2 BPSK	1	1	22.80	22.60	22.99	22.77	22.78	23.5	
60		1	80	22.73	22.74	22.86	22.83	22.55		
60		1	160	22.82	22.69	22.91	23.02	22.63		
60		81	1	21.61	21.64	21.74	21.68	21.81		
60		81	40	21.83	21.99	21.96	21.76	21.95		
60	DFT-s-OFDM QPSK	81	81	21.91	21.88	21.70	21.66	21.81	22.5	
60		162	0	21.73	21.61	21.67	21.48	21.86		
60		1	1	22.99	23.05	23.07	22.98	22.96		
60		1	80	22.67	22.87	22.82	22.89	22.85		
60		1	160	22.80	22.65	22.78	22.85	22.85		
60	DFT-s-OFDM 16QAM	81	1	22.00	21.99	22.09	22.03	22.01	23.5	
60		81	40	21.90	22.05	21.86	21.73	21.85		
60		81	81	22.06	21.97	22.00	22.08	22.08		
60		162	0	22.06	21.94	22.06	21.98	22.04		
60		1	1	20.79	20.59	20.94	20.80	20.90		
60	DFT-s-OFDM 64QAM	1	80	20.71	20.69	20.84	20.90	20.80	21.5	
60		1	160	20.66	20.68	20.83	20.76	20.95		
60		81	1	20.04	19.96	19.91	19.67	19.60		
60		81	40	19.90	19.99	19.84	19.71	19.77		
60		81	81	19.71	19.80	19.70	19.80	19.80		
60	DFT-s-OFDM 256QAM	162	0	19.68	19.76	19.75	19.69	19.72	20.5	
60		1	1	19.79	19.78	19.87	19.87	19.87		
60		1	80	19.69	19.90	19.84	19.81	19.90		
60		1	160	19.80	19.83	19.74	19.78	19.86		
60		81	1	18.71	19.78	19.89	19.71	19.75		
60	DFT-s-OFDM 64QAM	81	40	18.74	19.66	19.80	19.88	19.74	20.5	
60		81	81	18.79	19.69	19.90	19.81	19.78		
60		162	0	18.60	19.63	19.82	19.70	19.69		
60		1	1	18.92	18.76	18.78	18.76	18.83		
60		1	80	18.83	18.79	18.72	18.80	18.79		
60	DFT-s-OFDM 256QAM	1	160	18.91	18.83	18.79	18.78	18.77	19.5	
60		81	1	17.64	17.71	17.81	17.78	17.76		
60		81	40	17.80	17.67	17.70	17.70	17.73		
60		81	81	17.88	17.79	17.83	17.79	17.74		
60		162	0	17.71	17.68	17.81	17.76	17.72		
Channel				507000	513000	519000	525000	531000		
Frequency (MHz)				2535	2565	2595	2625	2655		
40	DFT-s-OFDM Pi/2 BPSK	1	1	22.66	22.46	22.85	22.63	22.64	23	
40		1	53	22.59	22.60	22.72	22.69	22.41		
40		1	105	22.68	22.55	22.77	22.88	22.49		
40		50	1	21.47	21.50	21.60	21.54	21.67		
40		50	25	21.69	21.85	21.82	21.62	21.81		
40	DFT-s-OFDM QPSK	50	50	21.77	21.54	21.56	21.52	21.67	22.5	
40		100	0	21.59	21.47	21.53	21.34	21.72		

5G NR n41 (Ant.6) for Head										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)	
Channel				513000	516000	519000	522000	525000		
Frequency (MHz)				2565	2580	2595	2610	2625		
100	CP-OFDM QPSK	1	1	20.49	20.36	20.42	20.60	20.46	21	
100		1	136	20.23	20.17	20.35	20.26	20.74		
100		1	272	20.24	20.35	20.29	20.14	20.42		
100		135	1	20.57	20.48	20.35	20.51	20.39		
100		135	67	20.53	20.68	20.70	20.63	20.65		
100	CP-OFDM 16QAM	135	136	20.11	19.98	20.65	20.54	20.50		

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit
40	1	1	22.85	22.91	22.93	22.84	22.82
40	1	53	22.53	22.53	22.68	22.79	22.61
40	1	105	22.66	22.51	22.64	22.71	22.71
40	50	1	21.86	21.85	21.95	21.89	21.87
40	50	25	21.76	21.91	21.72	21.59	21.71
40	50	50	21.92	21.83	21.86	21.94	21.94
40	100	0	21.92	21.80	21.92	21.84	21.90
40	1	1	20.85	20.45	20.80	20.68	20.76
40	1	53	20.57	20.55	20.70	20.76	20.66
40	1	105	20.52	20.54	20.69	20.62	20.81
40	50	1	19.90	19.82	19.77	19.53	19.46
40	50	25	19.76	19.85	19.70	19.57	19.63
40	50	50	19.57	19.66	19.56	19.66	19.66
40	100	0	19.54	19.62	19.61	19.55	19.58
40	1	1	19.65	19.64	19.73	19.83	19.73
40	1	53	19.55	19.76	19.70	19.67	19.76
40	1	105	19.66	19.69	19.60	19.64	19.72
40	50	1	18.57	19.64	19.75	19.57	19.61
40	50	25	18.60	19.52	19.66	19.74	19.60
40	50	50	18.65	19.55	19.76	19.67	19.64
40	100	0	18.46	19.49	19.68	19.56	19.55
40	1	1	18.78	18.62	18.64	18.62	18.69
40	1	53	18.69	18.65	18.58	18.66	18.65
40	1	105	18.77	18.69	18.65	18.64	18.63
40	50	1	17.50	17.57	17.67	17.64	17.62
40	50	25	17.66	17.53	17.56	17.56	17.59
40	50	50	17.74	17.65	17.69	17.65	17.60
40	100	0	17.57	17.54	17.67	17.62	17.58
Channel							Tune-up limit
Frequency (MHz)		505000	512000	519000	526000	533000	
		2525	2560	2595	2630	2665	
20	1	1	22.54	22.34	22.73	22.51	22.52
20	1	25	22.47	22.48	22.60	22.57	22.29
20	1	49	22.56	22.43	22.65	22.76	22.37
20	25	1	21.35	21.38	21.48	21.42	21.55
20	25	12	21.57	21.73	21.70	21.50	21.69
20	25	24	21.65	21.42	21.44	21.40	21.55
20	50	0	21.47	21.35	21.41	21.22	21.60
20	1	1	22.73	22.79	22.81	22.72	22.70
20	1	25	22.41	22.41	22.56	22.67	22.49
20	1	49	22.54	22.39	22.52	22.59	22.59
20	25	1	21.74	21.73	21.83	21.77	21.75
20	25	12	21.64	21.79	21.60	21.47	21.59
20	25	24	21.80	21.71	21.74	21.82	21.82
20	50	0	21.80	21.68	21.80	21.72	21.78
20	1	1	20.53	20.33	20.88	20.54	20.64
20	1	25	20.45	20.43	20.58	20.64	20.54
20	1	49	20.40	20.42	20.57	20.50	20.69
20	25	1	19.78	19.70	19.65	19.41	19.34
20	25	12	19.64	19.73	19.58	19.45	19.51
20	25	24	19.45	19.54	19.44	19.54	19.54
20	50	0	19.42	19.50	19.49	19.43	19.46
20	1	1	19.53	19.52	19.61	19.71	19.61
20	1	25	19.43	19.64	19.58	19.55	19.64
20	1	49	19.54	19.57	19.48	19.52	19.60
20	25	1	18.45	19.52	19.63	19.45	19.49
20	25	12	18.48	19.40	19.54	19.62	19.48
20	25	24	18.53	19.43	19.64	19.55	19.52
20	50	0	18.34	19.37	19.56	19.44	19.43
20	1	1	18.66	18.50	18.52	18.50	18.57
20	1	25	18.57	18.53	18.46	18.54	18.53
20	1	49	18.65	18.57	18.53	18.52	18.51
20	25	1	17.38	17.45	17.55	17.52	17.50
20	25	12	17.54	17.41	17.44	17.44	17.47
20	25	24	17.62	17.53	17.57	17.53	17.48
20	50	0	17.45	17.42	17.55	17.50	17.46

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit
20	1	1	20.04	19.91	19.97	20.15	20.01
20	1	25	19.78	19.72	19.90	19.81	20.29
20	1	49	19.79	19.90	19.84	19.69	19.97
20	25	1	20.12	20.03	19.90	20.06	19.94
20	25	12	20.08	20.23	20.25	20.18	20.20
20	25	24	19.68	19.53	20.20	20.09	20.05
20	50	0	20.02	19.86	19.86	19.79	19.75
20	1	1	19.63	19.51	19.40	19.53	19.59
20	1	25	18.80	19.00	19.05	18.86	19.19
20	1	49	19.01	18.90	19.25	19.07	19.48
20	25	1	19.65	19.60	19.48	19.35	19.51
20	25	12	19.24	19.14	19.45	19.50	19.41
20	25	24	19.52	19.58	19.53	19.55	19.46
20	50	0	19.33	19.47	19.25	19.13	18.96
20	1	1	18.32	18.12	18.12	18.04	18.18
20	1	25	17.99	18.18	18.13	18.33	17.66
20	1	49	18.18	17.99	18.06	18.11	17.93
20	25	1	18.05	18.01	17.97	17.99	17.96
20	25	12	17.98	18.12	18.01	18.03	17.91
20	25	24	18.11	18.30	17.93	17.84	17.93
20	50	0	17.98	18.08	18.06	18.25	18.26
20	1	1	15.17	15.12	15.12	15.08	14.80
20	1	25	15.07	14.90	15.00	15.15	14.88
20	1	49	14.69	14.80	14.77	14.85	14.41
20	25	1	15.27	15.35	15.16	15.17	14.93
20	25	12	15.12	15.26	15.01	15.01	15.04
20	25	24	15.05	15.18	15.07	14.99	14.89
20	50	0	15.15	15.17	15.02	15.01	14.97

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit
20	1	1	25.15	25.17	25.02	25.01	25.01
20	1	25	25.15	25.17	25.02	25.01	25.01

5G NR n41 (Ant.5) for Head									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				513000	516000	519000	522000	525000	
Frequency (MHz)				2565	2580	2595	2610	2625	
100	DFT-s-OFDM P/2 BPSK	1	1	21.46	21.48	21.57	21.41	21.40	22
100		1	136	21.33	21.31	21.27	21.23	21.33	
100		1	272	21.23	21.22	21.31	21.54	21.23	
100		135	1	20.32	20.28	20.31	20.30	20.26	
100		135	67	20.00	20.18	20.13	19.96	20.07	21.5
100		135	136	20.24	20.16	20.16	20.12	20.14	
100	270	0	20.21	20.24	20.03	20.06	20.08		
100	1	1	21.58	21.54	21.62	21.55	21.61	22	
100	1	136	21.57	21.56	21.52	21.45	21.60		
100	1	272	21.46	21.42	21.58	21.46	21.24		
100	135	1	20.51	20.50	20.55	20.53	20.52	21	
100	135	67	20.43	20.52	20.48	20.39	20.37		
100	135	136	20.40	20.41	20.45	20.53	20.42		
100	270	0	20.52	20.19	20.17	20.32	20.38		
100	1	1	19.41	19.47	19.43	19.56	19.49	20	
100	1	136	19.36	19.34	19.49	19.55	19.45		
100	1	272	19.31	19.33	19.48	19.41	19.60		
100	135	1	18.69	18.61	18.56	18.32	18.25	19	
100	135	67	18.55	18.64	18.49	18.36	18.42		
100	135	136	18.36	18.45	18.35	18.45	18.45		
100	270	0	18.33	18.41	18.40	18.34	18.37		
100	1	1	18.36	18.34	18.45	18.47	18.38	19	
100	1	136	18.24	18.45	18.39	18.36	18.45		
100	1	271	18.35	18.38	18.29	18.33	18.41		
100	135	1	17.26	18.33	18.44	18.26	18.30	19	
100	135	67	17.29	18.21	18.35	18.43	18.29		
100	135	136	17.34	18.24	18.45	18.36	18.33		
100	270	0	17.15	18.18	18.37	18.25	18.24		
100	1	1	17.16	16.98	17.08	16.92	17.05	18	
100	1	136	17.33	17.29	17.22	17.30	17.29		
100	1	272	17.41	17.33	17.29	17.28	17.27		
100	135	1	16.14	16.21	16.31	16.28	16.26	17	
100	135	67	16.30	16.17	16.20	16.20	16.23		
100	135	136	16.38	16.29	16.33	16.29	16.24		
100	270	0	16.21	16.18	16.31	16.26	16.22		
Channel				511000	516000	519000	523000	527000	
Frequency (MHz)				2555	2575	2595	2615	2635	
80	DFT-s-OFDM P/2 BPSK	1	1	21.36	21.38	21.47	21.31	21.30	22
80		1	108	21.23	21.21	21.17	21.13	21.23	
80		1	215	21.13	21.12	21.21	21.44	21.13	
80		108	108	20.22	20.18	20.21	20.20	20.16	21.5
80		108	54	19.90	20.08	20.03	19.86	19.97	
80		108	108	20.14	20.06	20.06	20.02	20.04	
80	216	0	20.11	20.14	19.93	19.96	19.98		
80	1	1	21.48	21.44	21.52	21.45	21.51	22	
80	1	108	21.47	21.46	21.42	21.35	21.50		
80	1	215	21.36	21.32	21.48	21.36	21.14		
80	108	1	20.41	20.40	20.45	20.43	20.42	21	
80	108	54	20.33	20.42	20.38	20.29	20.27		
80	108	108	20.30	20.31	20.35	20.43	20.32		
80	216	0	20.42	20.09	20.07	20.22	20.28		
80	1	1	19.31	19.37	19.33	19.46	19.39	20	
80	1	108	19.26	19.24	19.39	19.45	19.35		
80	1	215	19.21	19.23	19.38	19.31	19.50		
80	108	1	18.59	18.51	18.46	18.22	18.15	19	
80	108	54	18.45	18.54	18.39	18.26	18.32		
80	108	108	18.26	18.35	18.25	18.35	18.35		
80	216	0	18.23	18.31	18.30	18.24	18.27		
80	1	1	18.26	18.24	18.35	18.37	18.28	19	
80	1	108	18.14	18.35	18.29	18.26	18.35		
80	1	215	18.25	18.28	18.19	18.23	18.31		
80	108	1	17.16	18.23	18.34	18.16	18.20	19	
80	108	54	17.19	18.11	18.25	18.33	18.19		
80	108	108	17.24	18.14	18.35	18.28	18.23		
80	216	0	17.05	18.08	18.27	18.15	18.14		
80	1	1	17.06	16.88	16.98	16.82	16.95	18	
80	1	108	17.23	17.19	17.12	17.20	17.19		
80	1	215	17.31	17.23	17.19	17.18	17.17		
80	108	1	16.04	16.11	16.21	16.18	16.16	17	
80	108	54	16.20	16.07	16.10	16.10	16.13		
80	108	108	16.28	16.19	16.23	16.19	16.14		
80	216	0	16.11	16.08	16.21	16.16	16.12		
Channel				509000	514000	519000	524000	529000	
Frequency (MHz)				2545	2570	2595	2620	2645	
60	DFT-s-OFDM P/2 BPSK	1	1	21.36	21.38	21.47	21.31	21.30	22
60		1	80	21.23	21.21	21.17	21.13	21.23	
60		1	160	21.13	21.12	21.21	21.44	21.13	
60		81	1	20.22	20.18	20.21	20.20	20.16	21.5
60		81	40	19.90	20.08	20.03	19.86	19.97	
60		81	81	20.14	20.06	20.06	20.02	20.04	
60	162	0	20.11	20.14	19.93	19.96	19.98		
60	1	1	21.48	21.44	21.52	21.45	21.51	22	
60	1	80	21.47	21.46	21.42	21.35	21.50		
60	1	160	21.36	21.32	21.48	21.36	21.14		
60	81	1	20.41	20.40	20.45	20.43	20.42	21	
60	81	40	20.33	20.42	20.38	20.29	20.27		
60	81	81	20.30	20.31	20.35	20.43	20.32		
60	162	0	20.42	20.09	20.07	20.22	20.28		
60	1	1	19.31	19.37	19.33	19.46	19.39	20	
60	1	80	19.26	19.24	19.39	19.45	19.35		
60	81	1	18.59	18.51	18.46	18.22	18.15	19	
60	81	40	18.45	18.54	18.39	18.26	18.32		
60	81	81	18.26	18.35	18.25	18.35	18.35		
60	162	0	18.23	18.31	18.30	18.24	18.27		
60	1	1	18.26	18.24	18.35	18.37	18.28	19	
60	1	80	18.14	18.35	18.29	18.26	18.35		
60	1	160	18.25	18.28	18.19	18.23	18.31		
60	81	1	17.16	18.23	18.34	18.16	18.20	19	
60	81	40	17.19	18.11	18.25	18.33	18.19		
60	81	81	17.24	18.14	18.35	18.26	18.23		
60	162	0	17.05	18.08	18.27	18.15	18.14		
60	1	1	17.06	16.88	16.98	16.82	16.95	18	
60	1	80	17.23	17.19	17.12	17.20	17.19		
60	1	160	17.31	17.23	17.19	17.18	17.17		
60	81	1	16.04	16.11	16.21	16.18	16.16	17	
60	81	40	16.20	16.07	16.10	16.10	16.13		
60	81	81	16.28	16.19	16.23	16.19	16.14		
60	162	0	16.11	16.08	16.21	16.16	16.12		
Channel				507000	513000	519000	525000	531000	
Frequency (MHz)				2535	2565	2595	2625	2655	
40	DFT-s-OFDM P/2 BPSK	1	1	21.25	21.27	21.36	21.20	21.19	22
40		1	53	21.12	21.10	21.06	21.02	21.12	
40		1	105	21.02	21.01	21.10	21.33	21.02	
40		50	1	20.11	20.07	20.10	20.09	20.05	21.5
40		50	25	19.79	19.97	19.92	19.75	19.86	
40		50	50	20.03	19.95	19.95	19.91	19.93	
40	100	0	20.00	20.03	19.82	19.85	19.87		

5G NR n41 (Ant.5) for Head									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				513000	516000	519000	522000	525000	
Frequency (MHz)				2565	2580	2595	2610	2625	
100	CP-OFDM QPSK	1	1	20.41	20.53	20.55	20.47	20.44	21
100		1	136	20.25	20.19	20.37	20.28	20.76	
100		1	272	20.26	20.37	20.31	20.16	20.44	
100		135	1	20.29	20.40	20.42	20.23	20.37	
100		135	67	20.35	20.51	20.43	20.35	20.27	21
100		135	136	20.13	20.00	20.67	20.56	20.52	
100	270	0	20.49	20.33	20.33	20.26	20.22		
100	1	1	19.48	19.58	19.60	19.38	19.48	20	
100	1	136	19.53	19.47	19.48	19.29	19.22		
100	1	272	19.44	19.23	19.28	19.30	19.51		

40		1	1	21.37	21.33	21.41	21.34	21.40	
40		1	53	21.36	21.35	21.31	21.24	21.39	22
40	DFT-s-OFDM QPSK	1	105	21.25	21.21	21.37	21.25	21.03	
40		50	1	20.30	20.29	20.34	20.32	20.31	
40		50	25	20.22	20.31	20.27	20.18	20.16	21
40		50	50	20.19	20.20	20.24	20.32	20.21	
40		100	0	20.31	19.98	19.96	20.11	20.17	
40		1	1	19.20	19.26	19.22	19.35	19.28	
40		1	53	19.15	19.13	19.28	19.34	19.24	20
40	DFT-s-OFDM 16QAM	1	105	19.10	19.12	19.27	19.20	19.39	
40		50	1	18.48	18.40	18.35	18.11	18.04	
40		50	25	18.34	18.43	18.28	18.15	18.21	19
40		50	50	18.15	18.24	18.14	18.24	18.24	
40		100	0	18.12	18.20	18.19	18.13	18.16	
40		1	1	18.15	18.13	18.24	18.26	18.17	
40		1	53	18.03	18.24	18.18	18.15	18.24	19
40	DFT-s-OFDM 64QAM	1	105	18.14	18.17	18.08	18.12	18.20	
40		50	1	17.05	18.12	18.23	18.05	18.09	
40		50	25	17.08	18.00	18.14	18.22	18.08	
40		50	50	17.13	18.03	18.24	18.15	18.12	18.5
40		100	0	16.94	17.97	18.16	18.04	18.03	
40		1	1	16.96	16.77	16.87	16.71	16.84	
40		1	53	17.12	17.08	17.01	17.09	17.08	17.5
40	DFT-s-OFDM 256QAM	1	105	17.20	17.12	17.08	17.07	17.06	
40		50	1	15.93	16.00	16.10	16.07	16.05	
40		50	25	16.09	15.96	15.99	15.99	16.02	16.5
40		50	50	16.17	16.08	16.12	16.08	16.03	
40		100	0	16.00	15.97	16.10	16.05	16.01	
	Channel			505000	512000	519000	526000	533000	Tune-up limit
	Frequency (MHz)			2525	2560	2595	2630	2665	
20		1	1	21.12	21.14	21.23	21.07	21.06	22
20		1	25	20.99	20.97	20.93	20.89	20.99	
20	DFT-s-OFDM Pi/2 BPSK	1	49	20.89	20.88	20.97	21.20	20.89	
20		25	1	19.98	19.94	19.97	19.98	19.92	21.5
20		25	12	19.66	19.84	19.79	19.62	19.73	
20		25	24	19.90	19.82	19.82	19.78	19.80	
20		50	0	19.87	19.90	19.69	19.72	19.74	
20		1	1	21.24	21.20	21.28	21.21	21.27	22
20		1	25	21.23	21.22	21.18	21.11	21.26	
20		1	49	21.12	21.08	21.04	21.12	20.99	
20	DFT-s-OFDM QPSK	25	1	20.17	20.16	20.21	20.19	20.18	
20		25	12	20.09	20.18	20.14	20.05	20.03	21
20		25	24	20.06	20.07	20.11	20.19	20.08	
20		50	0	20.18	19.85	19.83	19.98	20.04	
20		1	1	19.07	19.13	19.09	19.22	19.15	
20		1	25	19.02	19.00	19.15	19.21	19.11	20
20		1	49	18.97	18.99	19.14	19.07	19.26	
20	DFT-s-OFDM 16QAM	25	1	18.35	18.27	18.22	17.98	17.91	
20		25	12	18.21	18.30	18.15	18.02	18.08	19
20		25	24	18.02	18.11	18.01	18.11	18.11	
20		50	0	17.99	18.07	18.06	18.00	18.03	
20		1	1	18.02	18.00	18.11	18.13	18.04	
20		1	25	17.90	18.11	18.05	18.02	18.11	19
20		1	49	18.01	18.04	17.95	17.99	18.07	
20	DFT-s-OFDM 64QAM	25	1	16.92	17.99	18.10	17.92	17.96	
20		25	12	16.95	17.87	18.01	18.09	17.95	18.5
20		25	24	17.00	17.90	18.11	18.02	17.99	
20		50	0	16.81	17.84	18.03	17.91	17.90	
20		1	1	16.82	16.64	16.74	16.58	16.71	17.5
20		1	25	16.99	16.95	16.88	16.96	16.95	
20		1	49	17.07	16.99	16.95	16.94	16.93	
20	DFT-s-OFDM 256QAM	25	1	15.80	15.87	15.97	15.94	15.92	
20		25	12	15.96	15.83	15.86	15.86	15.89	16.5
20		25	24	16.04	15.95	15.99	15.95	15.90	
20		50	0	15.87	15.84	15.97	15.92	15.88	

Channel			505000	512000	519000	526000	533000	Tune-up limit	
Frequency (MHz)			2525	2560	2595	2630	2665		
20		1	1	19.96	20.08	20.10	20.02	19.99	20.5
20		1	25	19.80	19.74	19.92	19.83	20.31	
20	CP-OFDM QPSK	1	49	19.81	19.92	19.86	19.71	19.99	
20		25	1	19.84	19.95	19.97	19.78	19.92	
20		25	12	19.90	20.06	19.98	19.90	19.82	
20		25	24	19.68	19.55	20.22	20.11	20.07	
20		50	0	20.04	19.88	19.88	19.81	19.77	
20		1	1	19.03	19.13	19.15	19.15	19.03	20
20		1	25	19.08	19.02	19.03	18.84	18.77	
20	CP-OFDM 16QAM	1	49	18.99	18.78	18.83	18.85	19.06	
20		25	1	19.23	19.18	19.06	18.93	19.09	
20		25	12	18.82	18.72	19.03	19.06	18.99	
20		25	24	19.10	19.16	19.11	19.13	19.04	
20		50	0	18.91	19.05	18.83	18.71	18.54	
20		1	1	15.16	15.04	15.17	15.12	15.14	16
20		1	25	15.06	15.25	15.20	15.06	14.93	
20	CP-OFDM 64QAM	1	49	15.25	15.06	15.15	15.18	15.00	
20		25	1	14.72	14.68	14.64	14.66	14.63	
20		25	12	14.85	14.69	14.58	14.90	14.78	
20		25	24	14.75	14.77	14.80	14.71	14.80	
20		50	0	14.85	14.75	14.73	14.73	14.63	
20		1	1	11.98	12.15	12.08	12.05	11.97	12.5
20		1	25	11.99	11.82	11.92	12.07	11.80	
20	CP-OFDM 256QAM	1	49	11.61	11.72	11.69	11.77	11.33	
20		25	1	12.19	12.27	12.08	12.09	11.85	
20		25	12	12.04	12.18	11.93	11.93	11.96	
20		25	24	11.97	12.10	11.99	11.91	11.81	
20		50	0	12.07	12.09	11.94	11.93	11.89	

				2515	
				2675	

5G NR n41 (Ant.6) for Body											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)		
Channel				513000	516000	519000	522000	525000			
Frequency (MHz)				2555	2580	2595	2610	2625			
100	DFT-s-OFDM	1	1	24.39	24.32	24.57	24.46	24.36	25.00		
100		1	136	24.39	24.31	24.45	24.39	24.26			
100		1	272	24.37	24.25	24.56	24.65	24.36			
100		135	1	23.01	22.86	23.33	23.18	23.36			
100	DFT-s-OFDM	135	67	23.58	23.55	23.55	23.42	23.65	24.00		
100		135	136	23.07	22.92	23.00	23.04	22.80			
100		270	0	23.08	22.93	23.02	23.23	23.48			
100		1	1	24.66	24.68	24.74	24.66	24.60			
100	DFT-s-OFDM	1	136	24.38	24.28	24.62	24.51	24.71	25.00		
100		1	272	24.36	24.30	24.69	24.72	24.57			
100		135	1	23.81	23.84	23.92	23.72	23.81			
100		135	67	23.58	23.69	23.59	23.39	23.54			
100	DFT-s-OFDM	135	136	23.70	23.67	23.79	23.72	23.78	24.00		
100		270	0	23.76	23.68	23.81	23.61	23.70			
100		1	1	22.34	22.28	22.59	22.55	22.62			
100		1	136	22.08	21.99	22.66	22.76	22.98			
100	DFT-s-OFDM	1	272	22.53	22.55	22.64	22.72	22.68	24.00		
100		135	1	21.05	21.10	21.37	21.30	21.99			
100		135	67	21.04	21.02	21.42	21.49	21.82			
100		135	136	21.05	21.12	21.66	21.57	21.15			
100	DFT-s-OFDM	270	0	21.16	21.22	21.42	21.37	21.07	23.00		
100		1	1	21.00	20.82	21.32	21.32	20.90			
100		1	136	21.01	21.02	21.57	21.61	21.21			
100		1	271	21.36	21.19	21.06	21.14	21.49			
100	DFT-s-OFDM	135	1	21.73	21.73	21.88	21.87	21.32	23.00		
100		135	67	22.00	21.85	21.97	22.06	21.36			
100		135	136	22.10	21.93	22.15	22.17	21.51			
100		270	0	22.11	21.92	21.94	21.84	21.23			
100	DFT-s-OFDM	1	1	20.01	19.85	19.89	19.84	19.30	21.00		
100		1	136	19.87	19.81	19.78	19.75	19.09			
100		1	272	20.04	19.97	19.92	19.81	19.34			
100		135	67	19.84	19.80	19.89	19.75	19.38			
100	DFT-s-OFDM	135	136	20.05	19.88	20.26	20.17	19.58	21.00		
100		270	0	20.04	20.04	20.10	19.91	19.11			
Channel				511000	515000	519000	523000	527000			
Frequency (MHz)				2555	2575	2595	2615	2635			
80	DFT-s-OFDM	1	1	23.17	23.07	23.08	23.00	22.97	25.00		
80		1	108	22.95	22.92	23.20	23.26	22.88			
80		1	215	23.18	23.18	23.15	23.05	23.24			
80		108	1	22.52	22.33	22.69	22.79	22.30			
80	DFT-s-OFDM	108	54	23.04	23.00	23.18	23.22	22.89	24.00		
80		108	108	22.59	22.55	22.77	22.57	22.64			
80		216	0	22.64	22.55	22.72	22.77	22.61			
80		1	1	23.23	23.17	23.10	23.14	23.20			
80	DFT-s-OFDM	1	108	23.10	22.91	22.92	22.73	23.40	25.00		
80		1	215	22.80	22.65	22.83	22.83	23.03			
80		108	1	23.95	23.96	23.53	23.44	23.46			
80		108	54	23.75	23.94	23.74	23.84	23.76			
80	DFT-s-OFDM	108	108	23.43	23.53	23.66	23.72	23.52	24.00		
80		216	0	23.39	23.23	23.42	23.52	23.37			
80		1	1	22.26	22.31	22.14	22.05	21.74			
80		1	108	22.14	22.05	21.89	21.96	21.79			
80	DFT-s-OFDM	1	215	22.06	22.01	22.01	22.05	22.35	24.00		
80		108	1	21.53	21.56	21.91	21.97	21.62			
80		108	54	22.29	22.15	22.08	22.07	21.96			
80		108	108	21.88	21.91	21.48	21.33	21.86			
80	DFT-s-OFDM	216	0	21.14	21.08	20.96	20.79	20.97	23.00		
80		1	1	20.41	20.40	20.79	20.86	20.49			
80		1	108	21.32	21.37	20.54	20.62	20.48			
80		1	215	21.31	21.28	20.67	20.58	20.53			
80	DFT-s-OFDM	108	1	21.50	21.48	20.87	20.87	20.93	22.00		
80		108	54	21.54	21.50	21.05	20.93	20.94			
80		108	108	21.56	21.49	20.96	21.00	21.39			
80		216	0	21.59	21.63	20.98	21.01	21.35			
80	DFT-s-OFDM	1	1	19.09	19.03	18.98	18.86	19.12	21.00		
80		1	108	19.02	19.10	18.95	18.87	19.09			
80		1	215	18.75	18.58	19.02	18.84	19.42			
80		108	1	19.26	19.30	19.29	19.17	19.41			
80	DFT-s-OFDM	108	54	19.27	19.28	19.45	19.25	19.31	21.00		
80		108	108	19.42	19.26	19.40	19.50	19.52			
80		216	0	18.79	18.71	19.37	19.37	19.45			
Channel				509000	514000	519000	524000	529000			
Frequency (MHz)				2545	2570	2595	2620	2645			
60	DFT-s-OFDM	1	1	24.40	24.30	24.40	24.41	24.40	25.00		
60		1	80	24.13	24.05	24.38	24.40	24.37			
60		1	160	24.36	24.40	24.41	24.45	24.48			
60		81	1	23.96	23.85	24.14	23.98	24.09			
60	DFT-s-OFDM	81	40	24.27	24.22	24.37	24.45	24.43	25.00		
60		81	81	23.85	23.95	24.39	24.37	24.23			
60		162	0	23.93	23.87	24.24	24.05	24.11			
60		1	1	24.27	24.12	24.18	24.01	24.19			
60	DFT-s-OFDM	1	80	23.85	23.88	24.45	24.31	24.23	25.00		
60		1	160	24.10	24.28	24.38	24.43	24.43			
60		81	1	24.07	24.07	23.65	23.64	24.45			
60		81	40	24.02	24.06	24.45	24.39	24.32			
60	DFT-s-OFDM	81	81	24.10	24.06	23.54	23.59	23.56	25.00		
60		162	0	23.09	22.98	23.49	23.58	23.30			
60		1	1	23.58	23.52	23.49	23.34	23.52			
60		1	80	23.32	23.32	23.77	23.65	23.62			
60	DFT-s-OFDM	1	160	23.57	23.41	23.93	23.94	23.89	24.00		
60		81	1	22.43	22.28	22.61	22.63	22.57			
60		81	40	22.59	22.85	22.68	22.64	22.84			
60		81	81	22.34	22.23	22.78	22.58	22.64			
60	DFT-s-OFDM	162	0	22.44	22.37	22.77	22.86	22.65	23.00		
60		1	1	21.79	21.83	21.98	22.04	21.71			
60		1	80	21.56	21.40	22.04	21.97	21.76			
60		1	160	21.69	21.66	22.10	21.97	22.09			
60	DFT-s-OFDM	81	1	21.94	22.04	22.13	22.16	22.06	23.00		
60		81	40	21.81	21.81	22.23	22.31	22.03			
60		81	81	21.86	21.86	22.36	22.25	22.14			
60		162	0	22.00	22.05	22.33	22.35	22.13			
60	DFT-s-OFDM	1	1	19.52	19.55	18.96	18.93	19.06	21.00		
60		1	80	19.66	19.72	18.82	18.97	19.81			
60		1	160	19.80	19.67	18.84	18.92	19.16			
60		81	1	19.87	19.72	19.67	19.67	19.49			
60	DFT-s-OFDM	81	40	19.85	19.83	19.69	19.64	19.38	21.00		
60		81	81	19.91	19.74	19.68	19.63	19.36			
60		162	0	19.02	19.07	18.93	19.02	18.21			
Channel				507000	513000	519000	525000	531000			
Frequency (MHz)				2535	2565	2595	2625	2655			
40	DFT-s-OFDM	1	1	24.42	24.48	24.52	24.33	24.37	25.00		
40		1	53	24.18	24.17	24.53	24.52	24.47			
40		1	105	23.85	23.75	24.23	24.23	24.25			
40		50	1	24.01	23.93	24.14	23.94	23.99			
40	DFT-s-OFDM	50	25	24.33	24.14	24.51	24.45	24.50	25.00		
40		50	50	23.74	23.80	24.28	24.17	24.15			
40		100	0	23.84	23.84	24.19	24.28	24.08			

5G NR n41 (Ant.6) for Body									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				513000	516000	519000	522000	525000	
Frequency (MHz)				2565	2580	2595	2610	2625	
100	CP-OFDM	1	1	21.90	21.94	21.92	21.60	21.51	22.00
100		1	136	21.50	21.45	21.95	21.61	21.67	
100		1	272	21.62	21.47	22.11	21.73	21.65	
100		135	1	20.20	20.24	19.99	19.79	19.99	
100	CP-OFDM	135	67	20.03	19.84	19.96	20.09	20.03	20.50
100		135	136	19.98	19.83	20.02	19.83	20.01	
100		270	0	21.52	21.52	22.14	21.89	21.68	
100		1	1	21.46	21.26	21.34	21.09	21.14	
100	CP-OFDM	1	136	21.12	21.13	21.49	21.35	21.30	

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit	
40	1	1	23.52	23.54	23.54	23.98	24.28	
40	1	53	23.93	24.03	23.67	23.47	24.24	
40	1	105	23.74	23.74	24.10	24.14	23.75	
40	50	1	23.57	23.98	23.64	23.60	23.71	
40	50	25	23.98	23.87	23.96	24.05	23.87	
40	50	50	23.59	23.87	24.02	23.90	24.14	
40	100	0	23.69	23.68	24.00	23.98	23.96	
40	1	1	22.59	22.43	23.20	23.01	23.17	
40	1	53	22.24	22.25	23.15	22.98	23.00	
40	1	105	22.87	22.68	22.85	22.94	22.75	
40	50	1	22.60	22.50	22.90	22.85	22.88	
40	50	25	22.37	22.34	22.06	21.99	22.90	
40	50	50	22.31	22.31	22.05	22.06	22.95	
40	100	0	22.41	22.38	23.02	22.99	22.97	
40	1	1	20.75	20.69	20.50	20.45	20.34	
40	1	53	20.86	20.69	20.27	20.25	20.13	
40	1	105	20.74	20.79	20.55	20.65	20.50	
40	50	1	22.04	22.04	22.45	22.30	22.37	
40	50	25	22.09	21.97	22.52	22.34	22.44	
40	50	50	22.12	22.17	22.55	22.46	22.48	
40	100	0	22.78	22.78	22.49	22.54	22.42	
40	1	1	20.45	20.33	20.41	20.30	20.78	
40	1	53	20.15	20.03	20.32	20.37	20.16	
40	1	105	20.07	20.09	20.54	20.36	20.47	
40	50	1	20.28	20.22	20.42	20.36	20.26	
40	50	25	20.07	20.11	20.36	20.20	20.37	
40	50	50	19.97	19.79	20.51	20.39	20.17	
40	100	0	20.13	20.12	20.46	20.38	20.35	
Channel			505000	512000	519000	526000	533000	Tune-up limit
Frequency (MHz)			2525	2560	2630	2665		
20	1	1	23.63	23.67	24.16	24.21	24.20	
20	1	25	23.61	23.67	24.20	24.18	24.18	
20	1	49	23.64	23.64	24.21	24.19	24.15	
20	25	1	23.86	23.89	24.18	24.08	24.49	
20	25	12	23.92	23.78	24.32	24.16	24.31	
20	25	24	23.84	23.75	24.47	24.33	24.45	
20	50	0	23.94	24.01	24.18	24.28	24.48	
20	1	1	24.57	24.55	24.36	24.28	24.56	
20	1	25	24.56	24.51	24.31	24.38	24.41	
20	1	49	24.51	24.53	24.15	23.96	24.41	
20	25	1	24.34	24.44	24.04	24.12	23.91	
20	25	12	24.35	24.31	24.40	24.40	24.49	
20	25	24	23.92	23.91	23.99	23.91	23.92	
20	50	1	23.79	23.81	23.67	23.56	23.83	
20	1	1	23.86	23.68	23.41	23.26	23.76	
20	1	25	23.76	23.64	23.17	23.01	23.79	
20	1	49	23.81	23.72	22.91	22.95	23.78	
20	25	1	22.82	22.62	22.13	22.04	22.77	
20	25	12	22.84	22.69	22.14	22.13	23.00	
20	25	24	22.89	22.94	22.06	22.02	22.94	
20	50	0	22.78	22.63	22.19	22.28	22.86	
20	1	1	22.11	22.18	22.07	22.17	22.00	
20	1	25	22.01	21.91	21.73	21.55	22.24	
20	1	49	22.13	22.21	21.92	21.98	22.15	
20	25	1	22.25	22.12	22.15	22.25	22.22	
20	25	12	22.23	22.13	22.06	22.16	22.35	
20	25	24	22.24	22.08	22.14	22.15	22.26	
20	50	0	22.22	22.04	22.16	22.02	22.19	
20	1	1	20.06	19.92	19.49	19.44	20.05	
20	1	25	19.96	19.93	19.87	19.82	20.06	
20	1	49	20.07	20.11	19.52	19.42	20.01	
20	25	1	20.15	20.00	19.73	19.74	20.21	
20	25	12	20.02	19.82	19.53	19.39	20.20	
20	25	24	20.03	19.85	19.41	19.27	20.15	
20	50	0	20.21	20.23	19.73	19.64	19.98	

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit
20	1	1	22.87	22.83	22.95	23.16	23.22
20	1	25	22.85	22.89	22.97	23.35	23.25
20	1	49	22.99	23.01	23.42	23.29	23.32
20	25	1	21.62	21.44	21.54	21.86	21.83
20	25	12	21.84	21.73	21.91	21.90	22.01
20	25	24	21.60	21.69	21.76	21.73	21.89
20	50	0	21.47	21.40	21.71	21.87	21.78
20	1	1	21.70	21.60	21.88	22.38	22.52
20	1	25	21.90	21.97	21.91	22.20	22.12
20	1	49	22.31	22.32	21.87	22.01	22.16
20	25	1	21.91	21.92	21.99	21.94	22.01
20	25	12	22.24	22.17	21.48	22.15	22.12
20	25	24	21.94	21.75	21.42	22.00	21.99
20	50	0	21.22	21.19	20.85	21.38	21.54
20	1	1	21.57	21.53	21.11	21.22	21.42
20	1	25	21.32	21.19	21.07	21.62	21.53
20	1	49	21.30	21.10	21.16	21.57	21.50
20	25	1	21.28	21.37	21.08	20.96	21.10
20	25	12	21.32	21.20	21.16	21.45	21.36
20	25	24	21.19	21.07	21.25	21.33	21.37
20	50	0	21.35	21.20	21.20	21.33	21.32
20	1	1	17.98	18.00	18.09	17.91	18.03
20	1	25	17.97	17.91	17.98	17.90	18.00
20	1	49	17.82	17.85	18.27	18.00	18.01
20	25	1	17.99	17.99	18.62	18.60	18.59
20	25	12	17.80	17.83	17.99	18.45	18.57
20	25	24	17.96	18.04	18.63	18.16	18.35
20	50	0	17.56	17.60	18.10	18.49	18.40

2515
2675

5G NR n41 (Ant.5) for Body											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)		
Channel				513000	516000	519000	522000	525000			
Frequency (MHz)				2565	2580	2595	2610	2625			
100	DFT-s-OFDM P/2 BPSK	1	1	25.31	25.38	25.40	25.24	25.26	26		
100		1	136	25.53	25.17	25.22	25.24	25.36			
100		1	272	24.79	24.91	25.10	24.77	24.93			
100		135	1	24.66	24.54	24.61	24.90	24.87			
100		135	67	25.08	25.01	25.01	25.08	25.01			
100	DFT-s-OFDM QPSK	135	136	24.34	24.74	24.83	24.64	24.65	25		
100		270	0	24.45	24.59	24.70	24.63	24.71			
100		1	1	25.52	25.55	25.61	25.54	25.51		26	
100		1	136	25.31	25.45	25.57	25.55	25.39			
100		1	272	25.26	25.23	25.40	25.29	25.21			
100	135	67	24.81	24.85	24.92	24.83	24.82	25			
100	135	67	24.83	24.71	24.73	24.75	24.73				
100	135	136	24.50	24.68	24.47	24.48	24.53				
100	270	0	24.65	24.25	24.59	24.49	24.25				
100	1	1	24.29	24.09	24.29	24.28	24.34		25		
100	1	136	24.25	24.34	24.29	24.32	24.28				
100	1	272	24.14	24.15	24.19	24.00	24.14				
100	135	1	24.17	23.80	23.88	23.89	23.89	25			
100	135	67	24.04	24.10	24.26	24.20	24.20				
100	135	136	23.93	23.80	23.97	23.66	23.68				
100	270	0	23.05	23.25	23.16	23.25	23.30				
100	1	1	23.21	23.25	23.24	22.87	22.91		24		
100	1	136	22.67	22.42	22.53	22.74	22.68				
100	1	272	22.56	22.64	22.59	22.69	22.63	23.5			
100	135	1	22.63	22.76	22.67	22.89	22.81				
100	135	67	22.58	22.73	22.81	22.90	22.84				
100	135	136	22.39	22.76	22.81	22.58	22.71				
100	270	0	22.47	22.68	22.69	22.55	22.73				
100	DFT-s-OFDM 256QAM	1	1	20.26	20.31	20.35	20.30	20.20	21		
100		1	136	20.56	20.53	20.63	20.61	20.61			
100		1	272	20.25	20.24	20.43	20.41	20.46			
100		135	67	20.68	20.51	20.61	20.55	20.53		21	
100		135	67	20.55	20.43	20.42	20.49	20.67			
100	135	136	20.34	20.27	20.48	20.61	20.63				
100	270	0	20.53	20.59	20.69	20.64	20.66				
Channel				511000	516000	519000	523000	527000	Tune-up limit		
Frequency (MHz)				2555	2575	2595	2615	2635			
80	DFT-s-OFDM P/2 BPSK	1	1	25.47	25.49	24.90	24.99	25.11	26		
80		1	108	25.41	25.29	24.97	24.91	25.15			
80		1	215	24.99	24.93	24.78	24.85	24.73			
80		108	1	24.47	24.49	24.16	24.16	24.13		25	
80		108	54	24.13	24.21	24.54	24.64	24.36			
80	108	108	24.37	24.27	24.17	24.14	24.14				
80	216	0	24.40	24.33	24.13	24.15	24.21				
80	1	1	25.13	25.22	25.42	25.32	25.22	26			
80	1	108	25.45	25.25	25.52	24.59	24.62				
80	1	215	25.23	25.09	25.14	25.13	25.16				
80	108	1	24.54	24.54	24.49	24.68	25.35		25		
80	108	54	25.38	25.44	25.47	25.36	25.06				
80	108	108	24.67	24.52	24.67	24.65	24.91				
80	216	0	24.52	24.43	24.62	24.71	25.05				
80	1	1	24.48	24.57	24.49	24.49	24.46	25			
80	1	108	24.38	24.37	24.58	24.50	24.46				
80	1	215	24.46	24.50	24.39	24.29	24.38		24		
80	108	1	23.37	23.42	23.39	23.47	23.45				
80	108	54	23.56	23.59	23.64	23.67	23.69				
80	108	108	23.34	23.40	23.59	23.62	23.70				
80	216	0	23.31	23.29	23.46	23.39	23.47				
80	DFT-s-OFDM 64QAM	1	1	22.18	21.98	22.11	21.96	22.63	23		
80		1	108	22.22	22.04	22.47	22.39	22.24			
80		1	215	21.80	21.71	22.19	22.29	22.18		23	
80		108	1	22.38	22.18	22.32	22.12	22.58			
80		108	54	22.43	22.23	22.44	22.29	22.46			
80	108	108	22.23	22.13	22.47	22.44	22.39				
80	216	0	22.34	22.18	22.49	22.48	22.41				
80	DFT-s-OFDM 256QAM	1	1	20.18	20.21	20.23	20.20	20.62	21		
80		1	108	20.21	20.10	20.32	20.19	20.39			
80		1	215	19.78	19.81	20.31	20.19	20.07		21	
80		108	1	20.41	20.36	20.39	20.48	20.48			
80		108	54	20.42	20.24	20.51	20.51	20.48			
80	108	108	20.23	20.24	20.58	20.42	20.33				
80	216	0	20.33	20.16	20.45	20.39	20.51				
Channel				509000	514000	519000	524000	529000	Tune-up limit		
Frequency (MHz)				2545	2570	2595	2620	2645			
60	DFT-s-OFDM P/2 BPSK	1	1	25.30	24.89	25.08	25.30	25.33	26		
60		1	80	25.30	25.39	25.35	25.05	25.12			
60		1	160	25.21	25.33	25.42	25.09	25.08			
60		81	1	24.19	24.28	24.25	24.33	24.33		25	
60		81	40	24.64	24.61	24.59	24.41	24.52			
60	81	81	24.36	24.36	24.52	24.32	24.33				
60	162	0	24.24	24.18	24.29	24.20	24.33				
60	1	1	25.16	24.98	24.94	25.26	25.20	26			
60	1	80	25.03	25.17	25.18	24.97	24.95				
60	1	160	25.00	25.36	25.26	24.72	24.83				
60	81	1	24.08	23.91	23.99	24.18	24.08		25		
60	81	40	24.16	24.13	24.08	24.08	24.03				
60	81	81	24.13	24.43	24.54	24.17	24.20				
60	162	0	24.14	24.19	24.26	23.92	24.10				
60	1	1	24.27	24.10	24.03	23.51	23.63	25			
60	1	80	24.21	24.23	24.28	23.93	24.01				
60	1	160	24.09	24.48	24.49	23.88	24.03				
60	81	1	23.16	23.22	23.14	23.17	23.14		24		
60	81	40	23.59	23.60	23.63	23.68	23.56				
60	81	81	23.15	23.32	23.49	23.26	23.19				
60	162	0	23.12	23.31	23.23	23.03	23.07				
60	1	1	23.08	22.79	22.93	23.35	23.35	24			
60	1	80	23.01	23.02	23.17	23.27	23.21				
60	1	160	22.91	23.19	23.34	22.82	22.88				
60	81	1	22.16	22.20	22.13	22.28	22.23		23		
60	81	40	22.23	22.13	22.33	22.21	22.11				
60	81	81	22.24	22.47	22.45	22.24	22.22				
60	162	0	22.26	22.32	22.35	22.03	22.16				
60	1	1	20.49	20.59	20.71	20.59	20.75	21			
60	1	80	20.59	20.44	20.49	20.38	20.42				
60	1	160	20.45	20.92	20.86	20.09	20.29				
60	81	1	20.55	20.47	20.53	20.59	20.68		21		
60	81	40	20.64	20.75	20.73	20.43	20.62				
60	81	81	20.73	20.84	20.92	20.52	20.66				
60	162	0	20.71	20.82	20.75	20.44	20.63				
Channel				507000	513000	519000	525000	531000		Tune-up limit	
Frequency (MHz)				2535	2565	2595	2625	2655			
40	DFT-s-OFDM P/2 BPSK	1	1	25.33	25.16	25.43	25.23	25.15	26		
40		1	53	25.27	25.17	25.44	25.01	25.06			
40		1	105	24.95	25.03	25.06	25.00	25.05		25.5	
40		50	1	24.92	24.88	24.94	24.58	24.65			
40		50	25	24.37	24.50	24.88	24.91	24.59			
40	50	50	24.68	24.63	24.64	24.59	24.36				
40	100	0	24.97	24.87	24.65	25.00	24.69				

5G NR n41 (Ant.5) for Body										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)	
Channel				513000	516000	519000	522000	525000		
Frequency (MHz)				2565	2580	2595	2610	2625		
100	CP-OFDM QPSK	1	1	24.26	24.15	23.54	24.44	24.37	25	
100		1	136	24.10	24.04	23.54	24.33	24.48		
100		1	272	23.91	23.76	24.29	24.13	24.05		
100		135	1	23.51	23.49	22.70	22.95	22.91		24
100		135	67	23.10	23.14	23.28	23.33	23.26		
100	135	136	22.52	22.67	22.68	22.57				

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit	
40	1	1	23.19	23.12	22.23	23.21	23.13	
40	1	53	23.01	22.87	23.09	23.01	23.17	
40	1	105	22.67	22.67	22.87	22.46	22.64	
40	50	1	22.90	22.86	22.87	22.98	22.19	
40	50	25	23.03	23.07	23.13	23.02	23.19	
40	50	50	22.34	22.22	22.27	22.30	22.25	
40	100	0	22.13	21.97	22.18	22.07	22.18	
40	1	1	24.67	24.64	24.01	24.07	24.05	
40	1	53	24.84	24.85	24.13	24.07	24.27	
40	1	105	23.91	23.99	23.98	23.94	23.94	
40	50	1	23.87	23.90	24.10	23.93	24.05	
40	50	25	24.80	24.80	24.09	24.22	24.20	
40	50	50	24.07	24.00	24.32	24.20	24.19	
40	100	0	24.00	24.07	24.12	24.21	24.13	
40	1	1	23.64	23.69	23.28	23.45	23.50	
40	1	53	23.49	23.40	23.29	23.20	23.35	
40	1	105	22.71	22.80	22.72	22.70	22.84	
40	50	1	23.46	23.31	23.50	23.36	23.56	
40	50	25	23.41	23.41	23.61	23.78	23.70	
40	50	50	23.58	23.38	23.72	23.78	23.72	
40	100	0	23.47	23.42	23.63	23.48	23.65	
40	1	1	20.21	20.11	20.38	20.57	20.57	
40	1	53	20.22	20.11	20.48	20.50	20.52	
40	1	105	20.35	20.34	20.68	20.24	20.17	
40	50	1	20.13	19.97	20.40	20.17	20.33	
40	50	25	20.32	20.28	20.49	20.22	20.20	
40	50	50	20.46	20.48	20.61	20.40	20.56	
40	100	0	20.38	20.24	20.57	20.19	20.12	
Channel Frequency (MHz)			505000	512000	519000	526000	533000	Tune-up limit
			2525	2560	2595	2630	2665	
20	1	1	25.14	24.98	25.08	25.11	25.18	
20	1	25	24.83	25.06	25.19	24.74	24.92	
20	1	49	25.04	25.35	25.28	24.69	24.81	
20	25	1	24.47	24.73	24.78	24.84	24.81	
20	25	12	24.99	25.36	25.29	24.68	24.81	
20	25	24	24.46	24.87	24.77	24.57	24.66	
20	50	0	24.56	24.80	24.75	24.48	24.50	
20	1	1	24.95	24.65	24.75	24.82	24.98	
20	1	25	24.55	24.88	25.04	24.77	24.90	
20	1	49	24.79	25.20	25.12	24.60	24.67	
20	25	1	24.39	24.20	24.12	23.93	23.89	
20	25	12	24.47	24.01	24.07	24.57	24.67	
20	25	24	24.38	24.10	24.09	23.90	23.95	
20	50	0	24.15	24.07	24.09	23.72	23.86	
20	1	1	24.19	24.34	24.24	24.06	24.22	
20	1	25	23.80	24.27	24.29	24.26	24.24	
20	1	49	24.11	24.26	24.38	23.98	23.91	
20	25	1	23.63	23.29	23.38	23.15	23.21	
20	25	12	23.65	23.47	23.39	23.46	23.59	
20	25	24	23.52	23.19	23.35	23.81	23.86	
20	50	0	22.98	23.41	23.33	23.14	23.21	
20	1	1	22.43	22.50	22.64	22.76	22.83	
20	1	25	22.32	22.42	22.48	23.08	23.01	
20	1	49	22.18	22.48	22.47	22.11	22.15	
20	25	1	22.65	22.78	22.93	22.61	22.75	
20	25	12	22.47	22.85	22.93	22.55	22.63	
20	25	24	22.61	22.62	22.76	22.25	22.24	
20	50	0	22.54	22.88	22.83	22.17	22.30	
20	1	1	20.43	20.50	20.45	20.80	20.87	
20	1	25	20.28	20.40	20.42	20.45	20.64	
20	1	49	20.32	20.65	20.59	19.97	20.14	
20	25	1	20.41	20.54	20.62	20.32	20.50	
20	25	12	20.37	20.41	20.58	20.45	20.62	
20	25	24	20.34	20.59	20.66	20.61	20.54	
20	50	0	20.45	20.44	20.64	20.36	20.55	

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit
20	1	1	21.64	21.64	21.02	21.00	21.66
20	1	25	21.39	21.25	21.72	21.60	21.36
20	1	49	21.56	21.61	21.65	21.53	21.38
20	25	1	21.16	21.00	21.25	21.09	20.97
20	25	12	21.08	21.02	21.44	21.33	21.28
20	25	24	20.91	20.87	20.95	20.98	20.81
20	50	0	20.02	20.00	20.29	20.28	20.08
20	1	1	21.30	21.24	20.91	20.90	20.83
20	1	25	21.11	20.96	21.48	21.34	21.24
20	1	49	21.25	21.30	21.46	21.55	21.07
20	25	1	20.27	20.25	20.25	20.29	20.28
20	25	12	20.67	20.64	20.64	20.67	20.62
20	25	24	20.26	20.30	20.39	20.34	20.29
20	50	0	20.11	20.12	20.33	20.26	20.13
20	1	1	19.75	19.85	19.54	19.52	19.85
20	1	25	19.57	19.66	19.69	19.53	19.85
20	1	49	19.70	19.75	20.01	20.05	19.78
20	25	1	19.52	19.33	19.74	19.81	19.55
20	25	12	19.64	19.55	19.91	19.75	19.66
20	25	24	19.49	19.38	19.84	19.93	19.56
20	50	0	19.54	19.41	19.85	19.65	19.70
20	1	1	16.63	16.48	16.52	16.70	16.73
20	1	25	16.39	16.29	16.24	16.04	16.54
20	1	49	16.56	16.65	16.71	16.53	16.26
20	25	1	16.38	16.29	16.72	16.61	16.67
20	25	12	16.45	16.48	16.77	16.75	16.65
20	25	24	16.48	16.43	16.69	16.51	16.53
20	50	0	16.53	16.41	16.73	16.46	16.60

2515
2675

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.53	8.33	8.49
	CH 39	2441	13.18	8.77	9.40
	CH 78	2480	11.74	7.81	8.40
Tune-up Limit			14.00	9.50	10.00
Duty Cycle %			96.27	76.80	77.07

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	
LE	CH 00	2402	7.12	4.55	
	CH 19	2440	8.20	5.88	
	CH 39	2480	7.30	4.87	
Tune-up Limit			8.50	6.50	
Duty Cycle %			62.68	62.02	

LTE Downlink Carrier Aggregation Conducted Power

Full Power for 2CC power verification

PCC				SCC				Power		
Band	BW	RB	UL Ch.	UL Freq.	BW	RB	DL Ch.	DL Freq.	Power	Rel. 8
	(MHz)	Offset		(MHz)	(MHz)	Offset		(MHz)	With	Power
intra-band CA (2CC)										
CA_2A-2A Ant 2	20	1#0	18700	1860	20	1#0	1100	1980	23.91	24.05
CA_2A-2A Ant 4	20	1#0	18700	1860	20	1#0	1100	1980	21.67	21.89
CA_4A-4A Ant 2	20	1#0	20050	1720	20	1#0	2300	2145	24.10	24.27
CA_4A-4A Ant 4	20	1#0	20050	1720	20	1#0	2300	2145	22.85	23.14
CA_5A-5A Ant 1	10	1#0	20450	829	10	1#0	2600	889	23.97	24.24

Reduced Power for 2CC power verification

PCC				SCC				Power		
Band	BW	RB	UL Ch.	UL Freq.	BW	RB	DL Ch.	DL Freq.	Power	Rel. 8
	(MHz)	Offset		(MHz)	(MHz)	Offset		(MHz)	With	Power
intra-band CA (2CC)										
CA_2A-2A Ant 2	20	1#0	18700	1860	20	1#0	1100	1980	22.37	22.74
CA_2A-2A Ant 4	20	1#0	18700	1860	20	1#0	1100	1980	18.41	18.63
CA_4A-4A Ant 4	20	1#0	20050	1720	20	1#0	2300	2145	19.43	19.71