



REPORT No. : SZ21040341S01

Annex E2 Conducted Reduced Power

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		28.98	29.06	28.99	30.00	19.98	20.06	19.99	21.00
GPRS 1 Tx slot		29.00	29.05	29.01	30.00	20.00	20.05	20.01	21.00
GPRS 2 Tx slots		26.62	26.65	26.64	27.50	20.62	20.65	20.64	21.50
GPRS 3 Tx slots		24.64	24.62	24.61	25.50	20.38	20.36	20.35	21.24
GPRS 4 Tx slots		23.58	23.62	23.43	24.50	20.58	20.62	20.43	21.50
EDGE 1 Tx slot		22.36	22.33	22.41	23.50	13.36	13.33	13.41	14.50
EDGE 2 Tx slots		20.36	20.32	20.38	21.50	14.36	14.32	14.38	15.50
EDGE 3 Tx slots		18.56	18.57	18.53	19.50	14.30	14.31	14.27	15.24
EDGE 4 Tx slots		18.15	18.09	18.10	19.00	15.15	15.09	15.10	16.00
Antenna		Ant.1 for Head							

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		25.51	25.45	25.48	26.50	16.51	16.45	16.48	17.50
GPRS 1 Tx slot		25.50	25.46	25.50	26.50	16.50	16.46	16.50	17.50
GPRS 2 Tx slots		22.82	22.86	22.83	24.00	16.82	16.86	16.83	18.00
GPRS 3 Tx slots		20.78	20.60	20.71	22.00	16.52	16.34	16.45	17.74
GPRS 4 Tx slots		19.95	20.01	19.94	21.00	16.95	17.01	16.94	18.00
EDGE 1 Tx slot		20.86	20.89	20.82	22.00	11.86	11.89	11.82	13.00
EDGE 2 Tx slots		18.91	18.82	18.88	20.00	12.91	12.82	12.88	14.00
EDGE 3 Tx slots		17.13	17.12	16.93	18.00	12.87	12.86	12.67	13.74
EDGE 4 Tx slots		16.46	16.41	16.44	17.50	13.46	13.41	13.44	14.50
Antenna		Ant.1 for Head							

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band 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	15.01	15.08	15.05	16.00	15.60	15.61	15.49	16.50
3GPP Rel 6	HSDPA Subtest-1	14.79	14.50	14.53	15.50	14.94	15.06	14.91	16.00
3GPP Rel 6	HSDPA Subtest-2	14.86	14.73	14.43	15.50	15.08	15.03	14.93	16.00
3GPP Rel 6	HSDPA Subtest-3	14.21	14.27	13.97	15.00	13.53	13.55	13.30	14.00
3GPP Rel 6	HSDPA Subtest-4	14.28	14.25	14.15	15.00	13.54	13.45	13.38	14.00
3GPP Rel 6	HSUPA Subtest-1	14.86	14.71	14.47	15.50	14.93	14.99	14.77	16.00
3GPP Rel 6	HSUPA Subtest-2	14.29	14.11	14.07	15.00	13.51	13.50	13.41	14.00
3GPP Rel 6	HSUPA Subtest-3	14.97	14.74	14.49	15.50	14.98	15.07	14.88	15.50
3GPP Rel 6	HSUPA Subtest-4	14.88	14.79	14.48	15.50	14.96	15.00	14.97	15.50
3GPP Rel 6	HSUPA Subtest-5	14.85	14.76	14.47	15.50	15.01	15.05	14.90	16.00
3GPP Rel 7	HSUPA+ (16QAM) Subtest-	14.85	14.82	14.49	15.50	15.15	15.02	14.96	16.00
Antenna		Ant.1 for Head				Ant.1 for Head			

Band		WCDMA Band V			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.50	22.52	22.47	23.50
3GPP Rel 6	HSDPA Subtest-1	21.13	21.17	21.03	22.00
3GPP Rel 6	HSDPA Subtest-2	21.31	21.13	21.15	22.00
3GPP Rel 6	HSDPA Subtest-3	20.73	20.67	20.57	21.50
3GPP Rel 6	HSDPA Subtest-4	20.63	20.68	20.64	21.50
3GPP Rel 6	HSUPA Subtest-1	21.14	21.17	21.12	22.00
3GPP Rel 6	HSUPA Subtest-2	20.63	20.64	20.58	21.00
3GPP Rel 6	HSUPA Subtest-3	21.19	21.20	21.20	22.00
3GPP Rel 6	HSUPA Subtest-4	21.15	21.20	21.09	22.00
3GPP Rel 6	HSUPA Subtest-5	21.24	21.19	21.05	22.00
3GPP Rel 7	HSUPA+ (16QAM) Subtest-	21.12	21.17	21.07	22.00
Antenna		Ant.1 for Head			

LTE Band 2 (Ant. 1 for Head)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	16.22	16.33	16.18	17
20	QPSK	1	49	15.81	15.78	15.83	
20	QPSK	1	99	15.73	15.69	15.66	
20	QPSK	50	0	15.30	15.32	15.24	
20	QPSK	50	24	14.88	14.89	14.92	16
20	QPSK	50	50	14.77	14.83	14.86	
20	QPSK	100	0	14.66	14.65	14.64	
20	16QAM	1	0	15.04	15.03	15.11	
20	16QAM	1	49	14.76	14.75	14.91	14
20	16QAM	1	99	14.70	14.67	14.65	
20	16QAM	50	0	13.59	13.56	13.56	
20	16QAM	50	24	13.55	13.57	13.53	
20	16QAM	50	50	13.53	13.48	13.47	14
20	16QAM	100	0	13.54	13.46	13.45	
20	64QAM	1	0	14.06	14.13	14.04	
20	64QAM	1	49	13.99	14.10	13.98	
20	64QAM	1	99	13.90	14.04	13.99	15
20	64QAM	50	0	13.04	13.14	13.04	
20	64QAM	50	24	13.19	12.93	12.91	
20	64QAM	50	50	13.11	13.05	12.98	
20	64QAM	100	0	13.08	13.07	13.01	14
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	15.81	15.92	15.85	17
15	QPSK	1	37	15.69	15.66	15.71	
15	QPSK	1	74	15.61	15.57	15.54	
15	QPSK	36	0	14.85	14.93	14.86	
15	QPSK	36	20	14.76	14.77	14.80	16
15	QPSK	36	39	14.65	14.71	14.74	
15	QPSK	75	0	14.54	14.53	14.52	
15	16QAM	1	0	14.92	14.91	14.99	
15	16QAM	1	37	14.64	14.63	14.79	14
15	16QAM	1	74	14.58	14.55	14.53	
15	16QAM	36	0	13.47	13.44	13.44	
15	16QAM	36	20	13.43	13.45	13.41	
15	16QAM	36	39	13.41	13.36	13.35	14
15	16QAM	75	0	13.42	13.34	13.33	
15	64QAM	1	0	13.94	14.01	13.92	
15	64QAM	1	37	13.87	13.98	13.86	
15	64QAM	1	74	13.78	13.92	13.87	15
15	64QAM	36	0	12.92	13.02	12.92	
15	64QAM	36	20	13.07	12.81	12.79	
15	64QAM	36	39	12.99	12.93	12.86	
15	64QAM	75	0	12.96	12.95	12.89	14
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	15.69	15.80	15.73	17
10	QPSK	1	25	15.57	15.54	15.59	
10	QPSK	1	49	15.49	15.45	15.42	
10	QPSK	25	0	14.73	14.81	14.74	
10	QPSK	25	12	14.64	14.65	14.68	16
10	QPSK	25	25	14.53	14.59	14.62	
10	QPSK	50	0	14.42	14.41	14.40	
10	16QAM	1	0	14.80	14.79	14.87	
10	16QAM	1	25	14.52	14.51	14.67	14
10	16QAM	1	49	14.46	14.43	14.41	
10	16QAM	25	0	13.35	13.32	13.32	
10	16QAM	25	12	13.31	13.33	13.29	
10	16QAM	25	25	13.29	13.24	13.23	14
10	16QAM	50	0	13.30	13.22	13.21	
10	64QAM	1	0	13.82	13.89	13.80	
10	64QAM	1	25	13.75	13.86	13.74	
10	64QAM	1	49	13.66	13.80	13.75	15
10	64QAM	25	0	12.80	12.90	12.80	
10	64QAM	25	12	12.95	12.69	12.67	
10	64QAM	25	25	12.87	12.81	12.74	
10	64QAM	50	0	12.84	12.83	12.77	14
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	15.58	15.69	15.62	17
5	QPSK	1	12	15.46	15.43	15.48	
5	QPSK	1	24	15.38	15.34	15.31	
5	QPSK	12	0	14.62	14.70	14.63	
5	QPSK	12	7	14.53	14.54	14.57	16
5	QPSK	12	13	14.42	14.48	14.51	
5	QPSK	25	0	14.31	14.30	14.29	
5	16QAM	1	0	14.69	14.68	14.66	
5	16QAM	1	12	14.41	14.40	14.56	14
5	16QAM	1	24	14.35	14.32	14.30	
5	16QAM	12	0	13.24	13.21	13.21	
5	16QAM	12	7	13.20	13.22	13.18	
5	16QAM	12	13	13.18	13.13	13.12	14
5	16QAM	25	0	13.19	13.11	13.10	
5	64QAM	1	0	13.61	13.68	13.69	
5	64QAM	1	12	13.64	13.65	13.63	
5	64QAM	1	24	13.55	13.69	13.64	15
5	64QAM	12	0	12.69	12.79	12.69	
5	64QAM	12	7	12.84	12.58	12.56	
5	64QAM	12	13	12.76	12.70	12.63	
5	64QAM	25	0	12.73	12.72	12.66	14
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	Tune-up limit (dBm)
3	QPSK	1	0	15.35	15.46	15.39	17
3	QPSK	1	8	15.23	15.20	15.25	
3	QPSK	1	14	15.15	15.11	15.08	
3	QPSK	8	0	14.39	14.47	14.40	
3	QPSK	8	4	14.30	14.31	14.34	16
3	QPSK	8	7	14.19	14.25	14.28	
3	QPSK	15	0	14.08	14.07	14.06	
3	16QAM	1	0	14.46	14.45	14.43	
3	16QAM	1	8	14.18	14.17	14.33	14
3	16QAM	1	14	14.12	14.09	14.07	
3	16QAM	8	0	13.01	12.98	12.98	

LTE Band 4 (Ant. 1 for Head)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	15.90	15.96	15.93	17
20	QPSK	1	49	15.73	15.77	15.73	
20	QPSK	1	99	15.61	15.58	15.65	
20	QPSK	50	0	14.83	14.92	14.86	
20	QPSK	50	24	14.76	14.81	14.63	16
20	QPSK	50	50	14.71	14.67	14.59	
20	QPSK	100	0	14.66	14.62	14.64	
20	16QAM	1	0	14.93	15.05	14.93	
20	16QAM	1	49	14.86	14.93	14.83	16
20	16QAM	1	99	14.76	14.80	14.77	
20	16QAM	50	0	14.10	14.09	14.02	
20	16QAM	50	24	13.93	13.90	14.00	
20	16QAM	50	50	13.80	13.97	13.83	15
20	16QAM	100	0	13.83	13.89	13.80	
20	64QAM	1	0	14.01	13.98	14.03	
20	64QAM	1	49	13.88	13.91	13.90	
20	64QAM	1	99	13.80	13.83	13.85	15
20	64QAM	50	0	13.02	13.03	12.92	
20	64QAM	50	24	12.90	12.91	12.83	
20	64QAM	50	50	12.70	12.75	12.73	
20	64QAM	100	0	12.82	12.83	12.80	14
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	15.83	15.86	15.81	17
15	QPSK	1	37	15.65	15.69	15.63	
15	QPSK	1	74	15.51	15.48	15.55	
15	QPSK	36	0	14.73	14.82	14.76	
15	QPSK	36	20	14.66	14.71	14.53	16
15	QPSK	36	39	14.61	14.57	14.49	
15	QPSK	75	0	14.56	14.52	14.54	
15	16QAM	1	0	14.83	14.95	14.83	
15	16QAM	1	37	14.76	14.83	14.73	16
15	16QAM	1	74	14.66	14.70	14.67	
15	16QAM	36	0	14.00	13.99	13.92	
15	16QAM	36	20	13.83	13.80	13.90	
15	16QAM	36	39	13.70	13.87	13.73	15
15	16QAM	75	0	13.73	13.79	13.70	
15	64QAM	1	0	13.91	13.88	13.93	
15	64QAM	1	37	13.78	13.81	13.80	
15	64QAM	1	74	13.70	13.73	13.75	15
15	64QAM	36	0	12.92	12.93	12.82	
15	64QAM	36	20	12.80	12.81	12.73	
15	64QAM	36	39	12.60	12.65	12.63	
15	64QAM	75	0	12.72	12.73	12.70	14
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	15.71	15.74	15.69	17
10	QPSK	1	25	15.53	15.57	15.51	
10	QPSK	1	49	15.39	15.36	15.43	
10	QPSK	25	0	14.61	14.70	14.64	
10	QPSK	25	12	14.54	14.59	14.41	16
10	QPSK	25	25	14.49	14.45	14.37	
10	QPSK	50	0	14.44	14.40	14.42	
10	16QAM	1	0	14.71	14.83	14.71	
10	16QAM	1	25	14.64	14.71	14.61	16
10	16QAM	1	49	14.54	14.58	14.55	
10	16QAM	25	0	13.88	13.87	13.80	
10	16QAM	25	12	13.71	13.68	13.78	
10	16QAM	25	25	13.58	13.75	13.61	15
10	16QAM	50	0	13.61	13.67	13.58	
10	64QAM	1	0	13.79	13.76	13.81	
10	64QAM	1	25	13.66	13.69	13.68	
10	64QAM	1	49	13.58	13.61	13.63	15
10	64QAM	25	0	12.80	12.81	12.70	
10	64QAM	25	12	12.68	12.69	12.61	
10	64QAM	25	25	12.48	12.53	12.51	
10	64QAM	50	0	12.60	12.61	12.52	14
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	15.58	15.61	15.56	17
5	QPSK	1	12	15.40	15.44	15.38	
5	QPSK	1	24	15.26	15.23	15.30	
5	QPSK	12	0	14.48	14.57	14.51	
5	QPSK	12	7	14.41	14.46	14.28	16
5	QPSK	12	13	14.36	14.32	14.24	
5	QPSK	25	0	14.31	14.27	14.29	
5	16QAM	1	0	14.58	14.70	14.58	
5	16QAM	1	12	14.51	14.58	14.48	16
5	16QAM	1	24	14.41	14.45	14.42	
5	16QAM	12	0	13.75	13.74	13.67	
5	16QAM	12	7	13.58	13.55	13.65	
5	16QAM	12	13	13.45	13.62	13.48	15
5	16QAM	25	0	13.48	13.54	13.45	
5	64QAM	1	0	13.66	13.63	13.68	
5	64QAM	1	12	13.53	13.56	13.55	
5	64QAM	1	24	13.45	13.48	13.50	15
5	64QAM	12	0	12.67	12.68	12.57	
5	64QAM	12	7	12.55	12.56	12.48	
5	64QAM	12	13	12.35	12.40	12.38	
5	64QAM	25	0	12.59	12.60	12.57	14
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	15.47	15.50	15.45	17
3	QPSK	1	8	15.29	15.33	15.27	
3	QPSK	1	14	15.15	15.12	15.19	
3	QPSK	8	0	14.37	14.46	14.40	
3	QPSK	8	4	14.30	14.35	14.17	16
3	QPSK	8	7	14.25	14.21	14.13	
3	QPSK	15	0	14.20	14.16	14.18	
3	16QAM	1	0	14.47	14.59	14.47	
3	16QAM	1	8	14.40	14.47	14.37	16
3	16QAM	1	14	14.30	14.34	14.31	
3	16QAM	8	0	13.64	13.63	13.56	

3	16QAM	8	4	12.97	12.99	12.95	14
3	16QAM	8	7	12.95	12.90	12.89	
3	16QAM	15	0	12.96	12.88	12.87	
3	64QAM	1	0	13.38	13.45	13.46	14
3	64QAM	1	8	13.41	13.42	13.40	
3	64QAM	1	14	13.32	13.46	13.41	
3	64QAM	8	0	12.46	12.56	12.46	13
3	64QAM	8	4	12.61	12.35	12.33	
3	64QAM	8	7	12.53	12.47	12.40	
3	64QAM	15	0	12.50	12.49	12.43	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.12	15.13	15.06	17
1.4	QPSK	1	3	15.10	15.07	15.12	
1.4	QPSK	1	5	15.02	14.98	14.95	
1.4	QPSK	3	0	14.26	14.34	14.27	
1.4	QPSK	3	1	14.17	14.18	14.21	
1.4	QPSK	3	3	14.06	14.12	14.15	
1.4	QPSK	6	0	13.95	13.94	13.93	16
1.4	16QAM	1	0	14.33	14.32	14.30	15
1.4	16QAM	1	3	14.05	14.04	14.20	
1.4	16QAM	1	5	13.99	13.96	13.94	
1.4	16QAM	3	0	12.88	12.85	12.85	
1.4	16QAM	3	1	12.84	12.86	12.82	
1.4	16QAM	3	3	12.82	12.77	12.76	
1.4	16QAM	6	0	12.83	12.75	12.74	14
1.4	64QAM	1	0	13.25	13.32	13.33	14
1.4	64QAM	1	3	13.28	13.29	13.27	
1.4	64QAM	1	5	13.19	13.33	13.28	
1.4	64QAM	3	0	12.33	12.43	12.33	
1.4	64QAM	3	1	12.48	12.22	12.20	
1.4	64QAM	3	3	12.40	12.34	12.27	
1.4	64QAM	6	0	12.37	12.36	12.30	13

3	16QAM	8	4	13.47	13.44	13.54	15
3	16QAM	8	7	13.34	13.51	13.37	
3	16QAM	15	0	13.37	13.43	13.34	
3	16QAM	1	0	13.55	13.52	13.57	14
3	16QAM	1	8	13.42	13.45	13.44	
3	16QAM	1	14	13.34	13.37	13.39	
3	16QAM	8	0	12.56	12.57	12.46	13
3	16QAM	8	4	12.44	12.45	12.37	
3	16QAM	8	7	12.24	12.29	12.27	
3	16QAM	15	0	12.48	12.49	12.46	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.34	15.37	15.32	17
1.4	QPSK	1	3	15.16	15.20	15.14	
1.4	QPSK	1	5	15.02	14.99	15.06	
1.4	QPSK	3	0	14.24	14.33	14.27	
1.4	QPSK	3	1	14.17	14.23	14.04	
1.4	QPSK	3	3	14.12	14.08	14.00	
1.4	QPSK	6	0	14.07	14.03	14.05	16
1.4	16QAM	1	0	14.34	14.46	14.34	15
1.4	16QAM	1	3	14.27	14.34	14.24	
1.4	16QAM	1	5	14.17	14.21	14.18	
1.4	16QAM	3	0	13.51	13.50	13.43	
1.4	16QAM	3	1	13.34	13.31	13.41	
1.4	16QAM	3	3	13.21	13.38	13.24	
1.4	16QAM	6	0	13.24	13.30	13.21	14
1.4	16QAM	1	0	13.42	13.39	13.44	14
1.4	16QAM	1	3	13.29	13.32	13.31	
1.4	16QAM	1	5	13.21	13.24	13.26	
1.4	16QAM	3	0	12.43	12.44	12.33	
1.4	16QAM	3	1	12.31	12.32	12.24	
1.4	16QAM	3	3	12.11	12.16	12.14	
1.4	16QAM	6	0	12.36	12.37	12.34	13

LTE Band 5 (Ant. 1 for Head)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	23.5
10	QPSK	1	0	22.40	22.41	22.38	
10	QPSK	1	25	22.29	22.25	22.27	
10	QPSK	1	49	22.10	22.18	22.11	
10	QPSK	25	0	21.34	21.40	21.32	
10	QPSK	25	12	21.30	21.33	21.26	22.5
10	QPSK	25	25	21.19	21.18	21.20	
10	QPSK	50	0	21.20	21.28	21.20	
10	16QAM	1	0	21.35	21.44	21.39	
10	16QAM	1	25	21.20	21.25	21.22	
10	16QAM	1	49	21.20	21.23	21.32	22.5
10	16QAM	25	0	20.41	20.37	20.36	
10	16QAM	25	12	20.22	20.27	20.29	
10	16QAM	25	25	20.32	20.36	20.26	
10	16QAM	50	0	20.25	20.36	20.22	
10	64QAM	1	0	20.27	20.34	20.34	21.5
10	64QAM	1	25	20.36	20.47	20.65	
10	64QAM	1	49	20.22	20.30	20.28	
10	64QAM	25	0	19.32	19.24	19.34	
10	64QAM	25	12	19.41	19.37	19.40	
10	64QAM	25	25	19.41	19.38	19.27	20.5
10	64QAM	50	0	19.41	19.31	19.38	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.18	22.23	22.15	23.5
5	QPSK	1	12	22.07	22.13	22.05	
5	QPSK	1	24	21.98	22.06	21.96	
5	QPSK	12	0	21.22	21.28	21.20	
5	QPSK	12	7	21.18	21.21	21.14	
5	QPSK	12	13	21.07	21.06	21.08	22.5
5	QPSK	25	0	21.08	21.16	21.08	
5	16QAM	1	0	21.03	21.12	21.07	
5	16QAM	1	12	21.08	21.07	21.10	
5	16QAM	1	24	21.08	21.11	21.33	
5	16QAM	12	0	20.29	20.25	20.24	21.5
5	16QAM	12	7	20.10	20.15	20.17	
5	16QAM	12	13	20.20	20.24	20.14	
5	16QAM	25	0	20.13	20.24	20.10	
5	64QAM	1	0	20.15	20.22	20.22	
5	64QAM	1	12	20.24	20.35	20.53	21.5
5	64QAM	1	24	20.10	20.18	20.16	
5	64QAM	12	0	19.20	19.12	19.22	
5	64QAM	12	7	19.29	19.25	19.28	
5	64QAM	12	13	19.29	19.26	19.15	
5	64QAM	25	0	19.29	19.19	19.26	20.5
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	22.07	22.12	22.04	23.5
3	QPSK	1	8	21.96	22.02	21.94	
3	QPSK	1	14	21.87	21.95	21.85	
3	QPSK	8	0	21.11	21.17	21.09	
3	QPSK	8	4	21.07	21.10	21.03	
3	QPSK	8	7	20.96	20.95	20.97	22.5
3	QPSK	15	0	20.97	21.05	20.97	
3	16QAM	1	0	20.92	21.01	20.96	
3	16QAM	1	8	20.97	20.96	20.99	
3	16QAM	1	14	20.97	21.00	21.22	
3	16QAM	8	0	20.18	20.14	20.13	21.5
3	16QAM	8	4	19.99	20.04	20.06	
3	16QAM	8	7	20.09	20.13	20.03	
3	16QAM	15	0	20.02	20.13	19.99	
3	64QAM	1	0	20.04	20.11	20.11	
3	64QAM	1	8	20.13	20.24	20.42	21.5
3	64QAM	1	14	19.99	20.07	20.05	
3	64QAM	8	0	19.09	19.01	19.11	
3	64QAM	8	4	19.18	19.14	19.17	
3	64QAM	8	7	19.18	19.15	19.04	
3	64QAM	15	0	19.18	19.08	19.15	20.5
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.27	22.32	22.24	23
1.4	QPSK	1	3	22.16	22.22	22.14	
1.4	QPSK	1	5	22.07	22.15	22.05	
1.4	QPSK	3	0	21.31	21.37	21.29	
1.4	QPSK	3	1	21.27	21.30	21.23	
1.4	QPSK	3	3	21.16	21.15	21.17	22
1.4	QPSK	6	0	21.17	21.25	21.17	
1.4	16QAM	1	0	21.12	21.21	21.16	
1.4	16QAM	1	3	21.17	21.16	21.19	
1.4	16QAM	1	5	21.17	21.20	21.42	
1.4	16QAM	3	0	20.38	20.34	20.33	22
1.4	16QAM	3	1	20.19	20.24	20.26	
1.4	16QAM	3	3	20.29	20.33	20.23	
1.4	16QAM	6	0	20.22	20.33	20.19	
1.4	64QAM	1	0	20.24	20.31	20.31	
1.4	64QAM	1	3	20.33	20.44	20.62	21
1.4	64QAM	1	5	20.19	20.27	20.25	
1.4	64QAM	3	0	19.29	19.21	19.31	
1.4	64QAM	3	1	19.38	19.34	19.37	
1.4	64QAM	3	3	19.38	19.35	19.24	
1.4	64QAM	6	0	19.38	19.28	19.35	20

LTE Band 7 (Ant. 1 for Head)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	17.2
20	QPSK	1	0	16.15	16.21	16.04	
20	QPSK	1	49	16.03	16.08	15.99	
20	QPSK	1	99	15.91	15.97	15.84	
20	QPSK	50	0	15.35	15.37	15.31	
20	QPSK	50	24	15.30	15.24	15.18	16.2
20	QPSK	50	50	15.12	15.14	15.15	
20	QPSK	100	0	14.98	15.02	15.05	
20	16QAM	1	0	15.32	15.30	15.31	
20	16QAM	1	49	15.23	15.21	15.33	
20	16QAM	1	99	15.22	15.27	15.29	16.2
20	16QAM	50	0	14.33	14.31	14.40	
20	16QAM	50	24	14.45	14.31	14.43	
20	16QAM	50	50	14.36	14.50	14.40	
20	16QAM	100	0	14.54	14.40	14.42	
20	64QAM	1	0	14.21	14.38	14.48	15.2
20	64QAM	1	49	14.40	14.51	14.69	
20	64QAM	1	99	14.26	14.64	14.52	
20	64QAM	50	0	13.36	13.28	13.38	
20	64QAM	50	24	13.45	13.41	13.44	
20	64QAM	50	50	13.45	13.42	13.31	14.2
20	64QAM	100	0	13.45	13.35	13.42	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)
15	QPSK	1	0	16.05	16.11	15.94	
15	QPSK	1	37	15.93	15.98	15.89	17.2
15	QPSK	1	74	15.81	15.87	15.74	
15	QPSK	36	0	15.25	15.27	15.21	
15	QPSK	36	20	15.20	15.14	15.08	16.2
15	QPSK	36	39	15.02	15.04	15.05	
15	QPSK	75	0	14.88	14.92	14.95	
15	16QAM	1	0	15.22	15.20	15.21	
15	16QAM	1	37	15.13	15.11	15.23	
15	16QAM	1	74	15.12	15.17	15.19	16.2
15	16QAM	36	0	14.23	14.21	14.30	
15	16QAM	36	20	14.35	14.21	14.33	
15	16QAM	36	39	14.26	14.40	14.30	
15	16QAM	75	0	14.44	14.30	14.32	
15	64QAM	1	0	14.11	14.28	14.38	15.2
15	64QAM	1	37	14.30	14.41	14.59	
15	64QAM	1	74	14.16	14.54	14.42	
15	64QAM	36	0	13.26	13.18	13.28	
15	64QAM	36	20	13.35	13.31	13.34	
15	64QAM	36	39	13.35	13.32	13.21	14.2
15	64QAM	75	0	13.35	13.25	13.32	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)
10	QPSK	1	0	15.93	15.99	15.82	
10	QPSK	1	25	15.81	15.86	15.77	17.2
10	QPSK	1	49	15.69	15.75	15.62	
10	QPSK	25	0	15.13	15.15	15.09	
10	QPSK	25	12	15.08	15.02	14.96	
10	QPSK	25	25	14.90	14.92	14.93	16.2
10	QPSK	50	0	14.76	14.80	14.83	
10	16QAM	1	0	15.10	15.08	15.09	
10	16QAM	1	25	15.01	14.99	15.11	
10	16QAM	1	49	15.00	15.05	15.07	
10	16QAM	25	0	14.11	14.09	14.18	15.2
10	16QAM	25	12	14.23	14.09	14.21	
10	16QAM	25	25	14.14	14.28	14.18	
10	16QAM	50	0	14.32	14.18	14.20	
10	64QAM	1	0	13.99	14.16	14.26	
10	64QAM	1	25	14.18	14.29	14.47	15.2
10	64QAM	1	49	14.04	14.42	14.30	
10	64QAM	25	0	13.14	13.06	13.16	14.2
10	64QAM	25	12	13.23	13.19	13.22	
10	64QAM	25	25	13.23	13.20	13.09	
10	64QAM	50	0	13.23	13.13	13.20	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)
5	QPSK	1	0	15.82	15.88	15.71	
5	QPSK	1	12	15.70	15.75	15.66	17.2
5	QPSK	1	24	15.58	15.64	15.51	
5	QPSK	12	0	15.02	15.04	14.98	
5	QPSK	12	7	14.97	14.91	14.85	16.2
5	QPSK	12	13	14.79	14.81	14.82	
5	QPSK	25	0	14.65	14.69	14.72	
5	16QAM	1	0	14.99	14.97	14.98	
5	16QAM	1	12	14.90	14.88	15.00	
5	16QAM	1	24	14.89	14.94	14.96	16.2
5	16QAM	12	0	14.00	13.98	14.07	
5	16QAM	12	7	14.12	13.98	14.10	
5	16QAM	12	13	14.03	14.17	14.07	
5	16QAM	25	0	14.21	14.07	14.09	
5	64QAM	1	0	13.88	14.05	14.15	15.2
5	64QAM	1	12	14.07	14.18	14.36	
5	64QAM	1	24	13.93	14.31	14.19	
5	64QAM	12	0	13.03	12.95	13.05	
5	64QAM	12	7	13.12	13.08	13.11	
5	64QAM	12	13	13.12	13.09	12.98	14.2
5	64QAM	25	0	13.12	13.02	13.09	

LTE Band 26 (Ant. 1 for Head)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	23.5
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.57	22.65	22.58	
15	QPSK	1	37	22.39	22.42	22.35	22.5
15	QPSK	1	74	22.24	22.28	22.27	
15	QPSK	36	0	21.65	21.68	21.60	
15	QPSK	36	20	21.66	21.63	21.59	22.5
15	QPSK	36	39	21.59	21.57	21.53	
15	QPSK	75	0	21.68	21.64	21.63	
15	16QAM	1	0	22.24	22.04	21.84	22.5
15	16QAM	1	37	22.03	21.91	21.81	
15	16QAM	1	74	21.84	21.78	21.76	
15	16QAM	36	0	20.72	20.69	20.65	21.5
15	16QAM	36	20	20.68	20.65	20.61	
15	16QAM	36	39	20.64	20.62	20.69	
15	16QAM	75	0	20.69	20.67	20.65	21.5
15	64QAM	1	0	20.91	20.95	20.90	
15	64QAM	1	37	20.73	20.81	20.85	
15	64QAM	1	74	20.95	20.94	20.91	20.5
15	64QAM	36	0	19.70	19.85	19.84	
15	64QAM	36	20	19.75	19.71	19.71	
15	64QAM	36	39	19.71	19.65	19.71	20.5
15	64QAM	75	0	19.74	19.71	19.76	
Channel				26740	26865	26990	23.5
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.46	22.54	22.47	
10	QPSK	1	25	22.28	22.31	22.24	22.5
10	QPSK	1	49	22.13	22.17	22.16	
10	QPSK	25	0	21.54	21.57	21.49	
10	QPSK	25	12	21.55	21.52	21.48	22.5
10	QPSK	25	25	21.48	21.46	21.42	
10	QPSK	50	0	21.57	21.53	21.52	
10	16QAM	1	0	22.13	21.93	21.73	22.5
10	16QAM	1	25	21.92	21.80	21.70	
10	16QAM	1	49	21.73	21.67	21.65	
10	16QAM	25	0	20.61	20.58	20.54	21.5
10	16QAM	25	12	20.57	20.54	20.50	
10	16QAM	25	25	20.53	20.51	20.58	
10	16QAM	50	0	20.58	20.56	20.54	21.5
10	64QAM	1	0	20.80	20.84	20.79	
10	64QAM	1	25	20.62	20.70	20.74	
10	64QAM	1	49	20.84	20.83	20.80	20.5
10	64QAM	25	0	19.59	19.74	19.73	
10	64QAM	25	12	19.64	19.60	19.60	
10	64QAM	25	25	19.60	19.54	19.60	20.5
10	64QAM	50	0	19.63	19.60	19.65	
Channel				26715	26865	27015	23.5
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.33	22.41	22.34	
5	QPSK	1	12	22.15	22.18	22.11	22.5
5	QPSK	1	24	22.00	22.04	22.03	
5	QPSK	12	0	21.41	21.44	21.36	
5	QPSK	12	7	21.42	21.39	21.35	22.5
5	QPSK	12	13	21.35	21.33	21.29	
5	QPSK	25	0	21.44	21.40	21.39	
5	16QAM	1	0	22.00	21.80	21.60	22.5
5	16QAM	1	12	21.79	21.67	21.57	
5	16QAM	1	24	21.60	21.54	21.52	
5	16QAM	12	0	20.48	20.45	20.41	21.5
5	16QAM	12	7	20.44	20.41	20.37	
5	16QAM	12	13	20.40	20.38	20.45	
5	16QAM	25	0	20.45	20.43	20.41	21.5
5	64QAM	1	0	20.67	20.71	20.66	
5	64QAM	1	12	20.49	20.57	20.61	
5	64QAM	1	24	20.71	20.70	20.67	20.5
5	64QAM	12	0	19.46	19.61	19.60	
5	64QAM	12	7	19.51	19.47	19.47	
5	64QAM	12	13	19.47	19.41	19.47	20.5
5	64QAM	25	0	19.50	19.47	19.52	
Channel				26705	26865	27025	23.5
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.21	22.29	22.22	
3	QPSK	1	8	22.03	22.06	21.99	22.5
3	QPSK	1	14	21.88	21.92	21.91	
3	QPSK	8	0	21.29	21.32	21.24	
3	QPSK	8	4	21.30	21.27	21.23	22.5
3	QPSK	8	7	21.23	21.21	21.17	
3	QPSK	15	0	21.32	21.28	21.27	
3	16QAM	1	0	21.58	21.68	21.48	22.5
3	16QAM	1	8	21.67	21.55	21.45	
3	16QAM	1	14	21.48	21.42	21.40	
3	16QAM	8	0	20.36	20.33	20.29	21.5
3	16QAM	8	4	20.32	20.29	20.25	
3	16QAM	8	7	20.28	20.26	20.33	
3	16QAM	15	0	20.33	20.31	20.29	21.5
3	64QAM	1	0	20.55	20.59	20.54	
3	64QAM	1	8	20.37	20.45	20.49	
3	64QAM	1	14	20.59	20.58	20.55	20.5
3	64QAM	8	0	19.34	19.49	19.48	
3	64QAM	8	4	19.39	19.35	19.35	
3	64QAM	8	7	19.35	19.29	19.35	20.5
3	64QAM	15	0	19.38	19.35	19.40	
Channel				26697	26865	27033	23.5
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.08	22.16	22.09	
1.4	QPSK	1	3	21.90	21.93	21.86	23
1.4	QPSK	1	5	21.75	21.79	21.78	
1.4	QPSK	3	0	21.16	21.19	21.11	
1.4	QPSK	3	1	21.17	21.14	21.10	22
1.4	QPSK	3	3	21.10	21.08	21.04	
1.4	QPSK	6	0	21.19	21.15	21.14	
1.4	16QAM	1	0	21.52	21.55	21.35	22
1.4	16QAM	1	3	21.54	21.42	21.32	
1.4	16QAM	1	5	21.35	21.29	21.27	
1.4	16QAM	3	0	20.23	20.20	20.16	

1.4	16QAM	3	1	20.19	20.16	20.12	
1.4	16QAM	3	3	20.15	20.13	20.20	
1.4	16QAM	6	0	20.20	20.18	20.16	
1.4	16QAM	6	0	20.20	20.18	20.16	21
1.4	16QAM	1	0	20.42	20.46	20.41	21
1.4	16QAM	1	3	20.24	20.32	20.36	
1.4	16QAM	1	5	20.46	20.45	20.42	
1.4	16QAM	3	0	19.21	19.36	19.35	
1.4	16QAM	3	1	19.26	19.22	19.22	
1.4	16QAM	3	3	19.22	19.16	19.22	
1.4	16QAM	6	0	19.25	19.22	19.27	
1.4	16QAM	6	0	19.25	19.22	19.27	20.5

LTE Band 38 (Ant. 1 for Head)								
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	21.41	21.44	21.40	22.5	
20	QPSK	1	49	21.27	21.32	21.28		
20	QPSK	1	99	21.11	21.19	21.16		
20	QPSK	50	0	20.31	20.41	20.38		
20	QPSK	50	24	20.18	20.30	20.27	21.5	
20	QPSK	50	50	20.20	20.12	20.20		
20	QPSK	100	0	20.15	20.20	20.16		
20	16QAM	1	0	20.52	20.51	20.47		
20	16QAM	1	49	20.42	20.40	20.36	21.5	
20	16QAM	1	99	20.25	20.26	20.28		
20	16QAM	50	0	19.15	19.17	19.20		
20	16QAM	50	24	19.06	19.11	19.05		
20	16QAM	50	50	18.98	19.02	18.99	20.5	
20	16QAM	100	0	18.90	18.94	18.97		
20	64QAM	1	0	19.61	19.57	19.59		
20	64QAM	1	49	19.57	19.55	19.50		
20	64QAM	1	99	19.43	19.40	19.44	19.5	
20	64QAM	50	0	18.98	18.96	18.99		
20	64QAM	50	24	18.86	18.93	18.90		
20	64QAM	50	50	18.83	18.94	18.99		
20	64QAM	100	0	18.80	18.96	18.73		
Channel				37825	38000	38175	Tune-up limit (dBm)	
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	21.41	21.44	21.40	22.5	
15	QPSK	1	37	21.27	21.32	21.28		
15	QPSK	1	74	21.11	21.19	21.16		
15	QPSK	36	0	20.31	20.41	20.38		
15	QPSK	36	20	20.18	20.30	20.27	21.5	
15	QPSK	36	39	20.20	20.12	20.20		
15	QPSK	75	0	20.15	20.20	20.16		
15	16QAM	1	0	20.52	20.51	20.47		
15	16QAM	1	37	20.42	20.40	20.36	21.5	
15	16QAM	1	74	20.25	20.26	20.28		
15	16QAM	36	0	19.15	19.17	19.20		
15	16QAM	36	20	19.06	19.11	19.05		
15	16QAM	36	39	18.98	19.02	18.99	20.5	
15	16QAM	75	0	18.90	18.94	18.97		
15	64QAM	1	0	19.61	19.57	19.59		
15	64QAM	1	37	19.57	19.55	19.50		
15	64QAM	1	74	19.43	19.40	19.44	19.5	
15	64QAM	36	0	18.98	18.96	18.99		
15	64QAM	36	20	18.86	18.93	18.90		
15	64QAM	36	39	18.83	18.94	18.99		
15	64QAM	75	0	18.80	18.96	18.73		
Channel				37800	38000	38200	Tune-up limit (dBm)	
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	21.41	21.44	21.40	22.5	
10	QPSK	1	25	21.27	21.32	21.28		
10	QPSK	1	49	21.11	21.19	21.16		
10	QPSK	25	0	20.31	20.41	20.38		
10	QPSK	25	12	20.18	20.30	20.27	21.5	
10	QPSK	25	25	20.20	20.12	20.20		
10	QPSK	50	0	20.15	20.20	20.16		
10	16QAM	1	0	20.52	20.51	20.47		
10	16QAM	1	25	20.42	20.40	20.36	21.5	
10	16QAM	1	49	20.25	20.26	20.28		
10	16QAM	25	0	19.15	19.17	19.20		
10	16QAM	25	12	19.06	19.11	19.05		
10	16QAM	25	25	18.98	19.02	18.99	20.5	
10	16QAM	50	0	18.90	18.94	18.97		
10	64QAM	1	0	19.37	19.33	19.35		
10	64QAM	1	25	19.33	19.31	19.26		
10	64QAM	1	49	19.19	19.16	19.20	20.5	
10	64QAM	25	0	18.74	18.72	18.75		
10	64QAM	25	12	18.62	18.69	18.66		
10	64QAM	25	25	18.59	18.70	18.75		
10	64QAM	50	0	18.56	18.72	18.49	19.5	
Channel				37775	38000	38225	Tune-up limit (dBm)	
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	21.41	21.44	21.40	22.5	
5	QPSK	1	12	21.27	21.32	21.28		
5	QPSK	1	24	21.11	21.19	21.16		
5	QPSK	12	0	20.31	20.41	20.38		
5	QPSK	12	7	20.18	20.30	20.27	21.5	
5	QPSK	12	13	20.20	20.12	20.20		
5	QPSK	25	0	20.15	20.20	20.16		
5	16QAM	1	0	20.52	20.51	20.47		
5	16QAM	1	12	20.42	20.40	20.36	21.5	
5	16QAM	1	24	20.25	20.26	20.28		
5	16QAM	12	0	19.15	19.17	19.20		
5	16QAM	12	7	19.06	19.11	19.05		
5	16QAM	12	13	18.98	19.02	18.99	20.5	
5	16QAM	25	0	18.90	18.94	18.97		
5	64QAM	1	0	19.61	19.57	19.59		
5	64QAM	1	12	19.57	19.55	19.50		
5	64QAM	1	24	19.43	19.40	19.44	19.5	
5	64QAM	12	0	18.98	18.96	18.99		
5	64QAM	12	7	18.86	18.93	18.90		
5	64QAM	12	13	18.83	18.94	18.99		
5	64QAM	25	0	18.80	18.96	18.73		

LTE Band 41 (Ant. 1 for Head)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	20.73	20.83	20.92	20.76	20.78	22
20	QPSK	1	49	20.66	20.69	20.77	20.64	20.69	
20	QPSK	1	99	20.59	20.65	20.62	20.55	20.67	
20	QPSK	50	0	19.86	19.80	19.89	19.76	19.81	
20	QPSK	50	24	19.71	19.74	19.72	19.73	19.75	21
20	QPSK	50	50	19.67	19.62	19.59	19.66	19.71	
20	QPSK	100	0	19.60	19.56	19.55	19.45	19.59	
20	16QAM	1	0	20.12	20.11	20.14	20.17	20.13	
20	16QAM	1	49	19.96	19.94	19.99	19.98	20.00	21
20	16QAM	1	99	19.82	19.83	19.91	19.92	19.84	
20	16QAM	50	0	18.81	18.88	18.83	18.82	18.86	
20	16QAM	50	24	18.71	18.81	18.71	18.73	18.72	
20	16QAM	50	50	18.65	18.62	18.60	18.63	18.65	19.5
20	16QAM	100	0	18.57	18.55	18.55	18.54	18.47	
20	64QAM	1	0	19.44	19.46	19.43	19.44	19.36	
20	64QAM	1	49	19.65	19.51	19.51	19.33	19.36	
20	64QAM	1	99	19.52	19.55	19.43	19.55	19.40	20
20	64QAM	50	0	18.42	18.45	18.45	18.46	18.38	
20	64QAM	50	24	18.32	18.31	18.34	18.37	18.33	
20	64QAM	50	50	18.35	18.33	18.29	18.26	18.29	
20	64QAM	100	0	18.26	18.27	18.24	18.21	18.25	19
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.61	20.71	20.80	20.64	20.66	22
15	QPSK	1	37	20.54	20.57	20.65	20.52	20.57	
15	QPSK	1	74	20.47	20.53	20.50	20.43	20.55	
15	QPSK	36	0	19.74	19.68	19.77	19.64	19.69	
15	QPSK	36	20	19.59	19.62	19.60	19.61	19.63	21
15	QPSK	36	39	19.55	19.50	19.47	19.54	19.59	
15	QPSK	75	0	19.48	19.44	19.43	19.33	19.47	
15	16QAM	1	0	20.00	19.99	20.02	20.05	20.01	
15	16QAM	1	37	19.84	19.82	19.87	19.86	19.88	21
15	16QAM	1	74	19.70	19.71	19.79	19.80	19.72	
15	16QAM	36	0	18.69	18.76	18.71	18.70	18.74	
15	16QAM	36	20	18.59	18.69	18.59	18.61	18.60	
15	16QAM	36	39	18.53	18.50	18.48	18.51	18.53	19.5
15	16QAM	75	0	18.45	18.43	18.43	18.42	18.35	
15	64QAM	1	0	19.32	19.34	19.31	19.32	19.24	
15	64QAM	1	37	19.53	19.39	19.39	19.21	19.24	
15	64QAM	1	74	19.40	19.43	19.31	19.43	19.28	20
15	64QAM	36	0	18.30	18.33	18.33	18.34	18.26	
15	64QAM	36	20	18.20	18.19	18.22	18.25	18.21	19
15	64QAM	36	39	18.23	18.21	18.17	18.14	18.17	
15	64QAM	75	0	18.14	18.15	18.12	18.09	18.13	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.48	20.58	20.67	20.51	20.53	22
10	QPSK	1	25	20.41	20.44	20.52	20.39	20.44	
10	QPSK	1	49	20.34	20.40	20.37	20.30	20.42	
10	QPSK	25	0	19.61	19.55	19.64	19.51	19.56	
10	QPSK	25	12	19.46	19.49	19.47	19.48	19.50	21
10	QPSK	25	25	19.42	19.37	19.34	19.41	19.46	
10	QPSK	50	0	19.35	19.31	19.30	19.20	19.34	
10	16QAM	1	0	19.87	19.86	19.89	19.92	19.88	
10	16QAM	1	25	19.71	19.69	19.74	19.73	19.75	21
10	16QAM	1	49	19.57	19.58	19.66	19.67	19.59	
10	16QAM	25	0	18.56	18.63	18.58	18.57	18.61	
10	16QAM	25	12	18.46	18.56	18.46	18.48	18.47	
10	16QAM	25	25	18.40	18.37	18.35	18.38	18.40	19.5
10	16QAM	50	0	18.32	18.30	18.30	18.29	18.22	
10	16QAM	1	0	19.19	19.21	19.18	19.19	19.11	
10	16QAM	1	25	19.40	19.26	19.26	19.08	19.11	
10	16QAM	1	49	19.27	19.30	19.18	19.30	19.15	20
10	16QAM	25	0	18.17	18.20	18.20	18.21	18.13	
10	16QAM	25	12	18.07	18.06	18.09	18.12	18.08	
10	16QAM	25	25	18.10	18.08	18.04	18.01	18.04	
10	16QAM	50	0	18.01	18.02	17.99	17.96	18.00	19
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	20.36	20.46	20.55	20.39	20.41	22
5	QPSK	1	12	20.29	20.32	20.40	20.27	20.32	
5	QPSK	1	24	20.22	20.28	20.25	20.18	20.30	
5	QPSK	12	0	19.49	19.43	19.52	19.39	19.44	
5	QPSK	12	7	19.34	19.37	19.35	19.36	19.38	21
5	QPSK	12	13	19.30	19.25	19.22	19.29	19.34	
5	QPSK	25	0	19.23	19.19	19.18	19.08	19.22	
5	16QAM	1	0	19.75	19.74	19.77	19.80	19.76	
5	16QAM	1	12	19.59	19.57	19.62	19.61	19.63	21
5	16QAM	1	24	19.45	19.46	19.54	19.55	19.47	
5	16QAM	12	0	18.44	18.51	18.46	18.45	18.49	
5	16QAM	12	7	18.34	18.44	18.34	18.36	18.35	
5	16QAM	12	13	18.28	18.25	18.23	18.26	18.28	19.5
5	16QAM	25	0	18.20	18.18	18.18	18.17	18.10	
5	64QAM	1	0	19.07	19.09	19.06	19.07	18.99	
5	64QAM	1	12	19.28	19.14	19.14	18.96	18.99	
5	64QAM	1	24	19.15	19.18	19.06	19.18	19.03	20
5	64QAM	12	0	18.05	18.08	18.08	18.09	18.01	
5	64QAM	12	7	17.95	17.94	17.97	18.00	17.96	
5	64QAM	12	13	17.98	17.96	17.92	17.89	17.92	
5	64QAM	25	0	17.89	17.90	17.87	17.84	17.88	19

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.51	28.45	28.48	29.50	19.51	19.45	19.48	20.50
GPRS 1 Tx slot	28.50	28.46	28.50	29.50	19.50	19.46	19.50	20.50
GPRS 2 Tx slots	25.82	25.86	25.83	27.00	19.82	19.86	19.83	21.00
GPRS 3 Tx slots	23.78	23.60	23.71	25.00	19.52	19.34	19.45	20.74
GPRS 4 Tx slots	22.95	23.01	22.94	24.00	19.95	20.01	19.94	21.00
EDGE 1 Tx slot	23.86	23.89	23.82	25.00	14.86	14.89	14.82	16.00
EDGE 2 Tx slots	21.91	21.82	21.88	23.00	15.91	15.82	15.88	17.00
EDGE 3 Tx slots	20.13	20.12	19.93	21.00	15.87	15.86	15.67	16.74
EDGE 4 Tx slots	19.46	19.41	19.44	20.50	16.46	16.41	16.44	17.50
Antenna	Ant.1 for Body							

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band 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	19.51	19.58	19.55	20.50	21.10	21.11	20.99	22.00
3GPP Rel 6 HSDPA Subtest-1	19.29	19.00	19.03	20.00	20.44	20.56	20.41	21.50
3GPP Rel 6 HSDPA Subtest-2	19.36	19.23	18.93	20.00	20.58	20.53	20.43	21.50
3GPP Rel 6 HSDPA Subtest-3	18.71	18.77	18.47	19.50	19.03	19.05	18.80	19.50
3GPP Rel 6 HSDPA Subtest-4	18.78	18.75	18.65	19.50	19.04	18.95	18.88	19.50
3GPP Rel 6 HSUPA Subtest-1	19.36	19.21	18.97	20.00	20.43	20.49	20.27	21.50
3GPP Rel 6 HSUPA Subtest-2	18.79	18.61	18.57	19.50	19.01	19.00	18.91	19.50
3GPP Rel 6 HSUPA Subtest-3	19.47	19.24	18.99	20.00	20.48	20.57	20.38	21.00
3GPP Rel 6 HSUPA Subtest-4	19.38	19.29	18.98	20.00	20.46	20.50	20.47	21.00
3GPP Rel 6 HSUPA Subtest-5	19.35	19.26	18.97	20.00	20.51	20.55	20.40	21.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	19.35	19.32	18.99	20.00	20.65	20.52	20.46	21.50
Antenna	Ant.1 for Body				Ant.1 for Body			

LTE Band 2 (Ant.1 for Body)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.22	20.23	20.18	21
20	QPSK	1	49	19.81	19.78	19.83	
20	QPSK	1	99	19.73	19.69	19.66	
20	QPSK	50	0	19.20	19.26	19.24	
20	QPSK	50	24	18.88	18.89	18.92	20
20	QPSK	50	50	18.77	18.83	18.86	
20	QPSK	100	0	18.66	18.65	18.64	
20	16QAM	1	0	19.04	19.03	19.11	
20	16QAM	1	49	18.76	18.75	18.91	20
20	16QAM	1	99	18.70	18.67	18.65	
20	16QAM	50	0	17.59	17.56	17.56	
20	16QAM	50	24	17.55	17.57	17.53	
20	16QAM	50	50	17.53	17.48	17.47	19
20	16QAM	100	0	17.54	17.46	17.45	
20	64QAM	1	0	18.06	18.13	18.04	
20	64QAM	1	49	17.99	18.10	17.98	
20	64QAM	1	99	17.90	18.04	17.99	19
20	64QAM	50	0	17.04	17.14	17.04	
20	64QAM	50	24	17.19	16.93	16.91	
20	64QAM	50	50	17.11	17.05	16.98	
20	64QAM	100	0	17.08	17.07	17.01	18
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.81	19.92	19.85	21
15	QPSK	1	37	19.69	19.66	19.71	
15	QPSK	1	74	19.61	19.57	19.54	
15	QPSK	36	0	18.85	18.93	18.86	
15	QPSK	36	20	18.76	18.77	18.80	20
15	QPSK	36	39	18.65	18.71	18.74	
15	QPSK	75	0	18.54	18.53	18.52	
15	16QAM	1	0	18.92	18.91	18.99	
15	16QAM	1	37	18.64	18.63	18.79	20
15	16QAM	1	74	18.58	18.55	18.53	
15	16QAM	36	0	17.47	17.44	17.44	
15	16QAM	36	20	17.43	17.45	17.41	
15	16QAM	36	39	17.41	17.36	17.35	19
15	16QAM	75	0	17.42	17.34	17.33	
15	64QAM	1	0	17.94	18.01	17.92	
15	64QAM	1	37	17.87	17.98	17.86	
15	64QAM	1	74	17.78	17.92	17.87	19
15	64QAM	36	0	16.92	17.02	16.92	
15	64QAM	36	20	17.07	16.81	16.79	
15	64QAM	36	39	16.99	16.93	16.86	
15	64QAM	75	0	16.96	16.95	16.89	18
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.69	19.80	19.73	21
10	QPSK	1	25	19.57	19.54	19.59	
10	QPSK	1	49	19.49	19.45	19.42	
10	QPSK	25	0	18.73	18.81	18.74	
10	QPSK	25	12	18.64	18.65	18.68	20
10	QPSK	25	25	18.53	18.59	18.62	
10	QPSK	50	0	18.42	18.41	18.40	
10	16QAM	1	0	18.80	18.79	18.87	
10	16QAM	1	25	18.52	18.51	18.67	20
10	16QAM	1	49	18.46	18.43	18.41	
10	16QAM	25	0	17.35	17.32	17.32	
10	16QAM	25	12	17.31	17.33	17.29	
10	16QAM	25	25	17.29	17.24	17.23	19
10	16QAM	50	0	17.30	17.22	17.21	
10	64QAM	1	0	17.82	17.89	17.80	
10	64QAM	1	25	17.75	17.86	17.74	
10	64QAM	1	49	17.66	17.80	17.75	19
10	64QAM	25	0	16.80	16.90	16.80	
10	64QAM	25	12	16.95	16.69	16.67	
10	64QAM	25	25	16.87	16.81	16.74	
10	64QAM	50	0	16.84	16.83	16.77	18
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.58	19.69	19.62	21
5	QPSK	1	12	19.46	19.43	19.48	
5	QPSK	1	24	19.38	19.34	19.31	
5	QPSK	12	0	18.62	18.70	18.63	
5	QPSK	12	7	18.53	18.54	18.57	20
5	QPSK	12	13	18.42	18.48	18.51	
5	QPSK	25	0	18.31	18.30	18.29	
5	16QAM	1	0	18.69	18.68	18.66	
5	16QAM	1	12	18.41	18.40	18.56	20
5	16QAM	1	24	18.35	18.32	18.30	
5	16QAM	12	0	17.24	17.21	17.21	
5	16QAM	12	7	17.20	17.22	17.18	
5	16QAM	12	13	17.18	17.13	17.12	19
5	16QAM	25	0	17.19	17.11	17.10	
5	64QAM	1	0	17.61	17.68	17.69	
5	64QAM	1	12	17.64	17.65	17.63	
5	64QAM	1	24	17.55	17.69	17.64	19
5	64QAM	12	0	16.69	16.79	16.69	
5	64QAM	12	7	16.84	16.58	16.56	
5	64QAM	12	13	16.76	16.70	16.63	
5	64QAM	25	0	16.73	16.72	16.66	18
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.35	19.46	19.39	21
3	QPSK	1	8	19.23	19.20	19.25	
3	QPSK	1	14	19.15	19.11	19.08	
3	QPSK	8	0	18.39	18.47	18.40	
3	QPSK	8	4	18.30	18.31	18.34	20
3	QPSK	8	7	18.19	18.25	18.28	
3	QPSK	15	0	18.08	18.07	18.06	
3	16QAM	1	0	18.46	18.45	18.43	
3	16QAM	1	8	18.18	18.17	18.33	20
3	16QAM	1	14	18.12	18.09	18.07	
3	16QAM	8	0	17.01	16.98	16.98	

LTE Band 4 (Ant.1 for Body)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.90	20.96	20.93	22
20	QPSK	1	49	20.73	20.77	20.73	
20	QPSK	1	99	20.61	20.58	20.65	
20	QPSK	50	0	19.83	19.92	19.86	
20	QPSK	50	24	19.76	19.81	19.63	21
20	QPSK	50	50	19.71	19.67	19.59	
20	QPSK	100	0	19.66	19.62	19.64	
20	16QAM	1	0	19.93	20.05	19.93	
20	16QAM	1	49	19.86	19.93	19.83	21
20	16QAM	1	99	19.76	19.80	19.77	
20	16QAM	50	0	19.10	19.09	19.02	
20	16QAM	50	24	18.93	18.90	19.00	
20	16QAM	50	50	18.80	18.97	18.83	20
20	16QAM	100	0	18.83	18.89	18.80	
20	64QAM	1	0	19.01	18.98	19.03	
20	64QAM	1	49	18.88	18.91	18.90	
20	64QAM	1	99	18.80	18.83	18.85	20
20	64QAM	50	0	18.02	18.03	17.92	
20	64QAM	50	24	17.90	17.91	17.83	
20	64QAM	50	50	17.70	17.75	17.73	
20	64QAM	100	0	17.82	17.83	17.80	19
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.83	20.86	20.81	22
15	QPSK	1	37	20.65	20.69	20.63	
15	QPSK	1	74	20.51	20.48	20.55	
15	QPSK	36	0	19.73	19.82	19.76	
15	QPSK	36	20	19.66	19.71	19.53	21
15	QPSK	36	39	19.61	19.57	19.49	
15	QPSK	75	0	19.56	19.52	19.54	
15	16QAM	1	0	19.83	19.95	19.83	
15	16QAM	1	37	19.76	19.83	19.73	21
15	16QAM	1	74	19.66	19.70	19.67	
15	16QAM	36	0	19.00	18.99	18.92	
15	16QAM	36	20	18.83	18.80	18.90	
15	16QAM	36	39	18.70	18.87	18.73	20
15	16QAM	75	0	18.73	18.79	18.70	
15	64QAM	1	0	18.91	18.88	18.93	
15	64QAM	1	37	18.78	18.81	18.80	
15	64QAM	1	74	18.70	18.73	18.75	20
15	64QAM	36	0	17.92	17.93	17.82	
15	64QAM	36	20	17.80	17.81	17.73	
15	64QAM	36	39	17.60	17.65	17.63	
15	64QAM	75	0	17.72	17.73	17.70	19
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.71	20.74	20.69	22
10	QPSK	1	25	20.53	20.57	20.51	
10	QPSK	1	49	20.39	20.36	20.43	
10	QPSK	25	0	19.61	19.70	19.64	
10	QPSK	25	12	19.54	19.59	19.41	21
10	QPSK	25	25	19.49	19.45	19.37	
10	QPSK	50	0	19.44	19.40	19.42	
10	16QAM	1	0	19.71	19.83	19.71	
10	16QAM	1	25	19.64	19.71	19.61	21
10	16QAM	1	49	19.54	19.58	19.55	
10	16QAM	25	0	18.88	18.87	18.80	
10	16QAM	25	12	18.71	18.68	18.78	
10	16QAM	25	25	18.58	18.75	18.61	20
10	16QAM	50	0	18.61	18.67	18.58	
10	64QAM	1	0	18.79	18.76	18.81	
10	64QAM	1	25	18.66	18.69	18.68	
10	64QAM	1	49	18.58	18.61	18.63	20
10	64QAM	25	0	17.80	17.81	17.70	
10	64QAM	25	12	17.68	17.69	17.61	
10	64QAM	25	25	17.48	17.53	17.51	
10	64QAM	50	0	17.60	17.61	17.52	19
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.58	20.61	20.56	22
5	QPSK	1	12	20.40	20.44	20.38	
5	QPSK	1	24	20.26	20.23	20.30	
5	QPSK	12	0	19.48	19.57	19.51	
5	QPSK	12	7	19.41	19.46	19.28	21
5	QPSK	12	13	19.36	19.32	19.24	
5	QPSK	25	0	19.31	19.27	19.29	
5	16QAM	1	0	19.58	19.70	19.58	
5	16QAM	1	12	19.51	19.58	19.48	21
5	16QAM	1	24	19.41	19.45	19.42	
5	16QAM	12	0	18.75	18.74	18.67	
5	16QAM	12	7	18.58	18.55	18.65	
5	16QAM	12	13	18.45	18.62	18.48	20
5	16QAM	25	0	18.48	18.54	18.45	
5	64QAM	1	0	18.66	18.63	18.68	
5	64QAM	1	12	18.53	18.56	18.55	
5	64QAM	1	24	18.45	18.48	18.50	20
5	64QAM	12	0	17.67	17.68	17.57	
5	64QAM	12	7	17.55	17.56	17.48	
5	64QAM	12	13	17.35	17.40	17.38	
5	64QAM	25	0	17.59	17.60	17.57	19
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.47	20.50	20.45	22
3	QPSK	1	8	20.29	20.33	20.27	
3	QPSK	1	14	20.15	20.12	20.19	
3	QPSK	8	0	19.37	19.46	19.40	
3	QPSK	8	4	19.30	19.35	19.17	21
3	QPSK	8	7	19.25	19.21	19.13	
3	QPSK	15	0	19.20	19.16	19.18	
3	16QAM	1	0	19.47	19.59	19.47	
3	16QAM	1	8	19.40	19.47	19.37	21
3	16QAM	1	14	19.30	19.34	19.31	
3	16QAM	8	0	18.64	18.63	18.56	

3	16QAM	8	4	16.97	16.99	16.95	19
3	16QAM	8	7	16.95	16.90	16.89	
3	16QAM	15	0	16.96	16.88	16.87	
3	64QAM	1	0	17.38	17.45	17.46	18
3	64QAM	1	8	17.41	17.42	17.40	
3	64QAM	1	14	17.32	17.46	17.41	
3	64QAM	8	0	16.46	16.56	16.46	17
3	64QAM	8	4	16.61	16.35	16.33	
3	64QAM	8	7	16.53	16.47	16.40	
3	64QAM	15	0	16.50	16.49	16.43	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.12	19.13	19.06	21
1.4	QPSK	1	3	19.10	19.07	19.12	
1.4	QPSK	1	5	19.02	18.98	18.95	
1.4	QPSK	3	0	18.26	18.34	18.27	
1.4	QPSK	3	1	18.17	18.18	18.21	
1.4	QPSK	3	3	18.06	18.12	18.15	
1.4	QPSK	6	0	17.95	17.94	17.93	20
1.4	16QAM	1	0	18.33	18.32	18.30	19
1.4	16QAM	1	3	18.05	18.04	18.20	
1.4	16QAM	1	5	17.99	17.96	17.94	
1.4	16QAM	3	0	16.88	16.85	16.85	
1.4	16QAM	3	1	16.84	16.86	16.82	
1.4	16QAM	3	3	16.82	16.77	16.76	
1.4	16QAM	6	0	16.83	16.75	16.74	18
1.4	64QAM	1	0	17.25	17.32	17.33	18
1.4	64QAM	1	3	17.28	17.29	17.27	
1.4	64QAM	1	5	17.19	17.33	17.28	
1.4	64QAM	3	0	16.33	16.43	16.33	
1.4	64QAM	3	1	16.48	16.22	16.20	
1.4	64QAM	3	3	16.40	16.34	16.27	
1.4	64QAM	6	0	16.37	16.36	16.30	17

3	16QAM	8	4	18.47	18.44	18.54	20
3	16QAM	8	7	18.34	18.51	18.37	
3	16QAM	15	0	18.37	18.43	18.34	
3	16QAM	1	0	18.55	18.52	18.57	19
3	16QAM	1	8	18.42	18.45	18.44	
3	16QAM	1	14	18.34	18.37	18.39	
3	16QAM	8	0	17.56	17.57	17.46	18
3	16QAM	8	4	17.44	17.45	17.37	
3	16QAM	8	7	17.24	17.29	17.27	
3	16QAM	15	0	17.48	17.49	17.46	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.34	20.37	20.32	22
1.4	QPSK	1	3	20.16	20.20	20.14	
1.4	QPSK	1	5	20.02	19.99	20.06	
1.4	QPSK	3	0	19.24	19.33	19.27	
1.4	QPSK	3	1	19.17	19.23	19.04	
1.4	QPSK	3	3	19.12	19.08	19.00	
1.4	QPSK	6	0	19.07	19.03	19.05	21
1.4	16QAM	1	0	19.34	19.46	19.34	20
1.4	16QAM	1	3	19.27	19.34	19.24	
1.4	16QAM	1	5	19.17	19.21	19.18	
1.4	16QAM	3	0	18.51	18.50	18.43	
1.4	16QAM	3	1	18.34	18.31	18.41	
1.4	16QAM	3	3	18.21	18.38	18.24	
1.4	16QAM	6	0	18.24	18.30	18.21	19
1.4	16QAM	1	0	18.42	18.39	18.44	19
1.4	16QAM	1	3	18.29	18.32	18.31	
1.4	16QAM	1	5	18.21	18.24	18.26	
1.4	16QAM	3	0	17.43	17.44	17.33	
1.4	16QAM	3	1	17.31	17.32	17.24	
1.4	16QAM	3	3	17.11	17.16	17.14	
1.4	16QAM	6	0	17.36	17.37	17.34	18

LTE Band 7 (Ant.1 for Body)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	20.15	20.21	20.04	
20	QPSK	1	49	20.03	20.08	19.99	21.2
20	QPSK	1	99	19.91	19.97	19.84	
20	QPSK	50	0	19.35	19.37	19.31	
20	QPSK	50	24	19.30	19.24	19.18	20.2
20	QPSK	50	50	19.12	19.14	19.15	
20	QPSK	100	0	18.98	19.02	19.05	
20	16QAM	1	0	19.32	19.30	19.31	20.2
20	16QAM	1	49	19.23	19.21	19.33	
20	16QAM	1	99	19.22	19.27	19.29	
20	16QAM	50	0	18.33	18.31	18.40	19.2
20	16QAM	50	24	18.45	18.31	18.43	
20	16QAM	50	50	18.36	18.50	18.40	
20	16QAM	100	0	18.54	18.40	18.42	19.2
20	64QAM	1	0	18.21	18.38	18.48	
20	64QAM	1	49	18.40	18.51	18.69	
20	64QAM	1	99	18.26	18.64	18.52	18.2
20	64QAM	50	0	17.36	17.28	17.38	
20	64QAM	50	24	17.45	17.41	17.44	
20	64QAM	50	50	17.45	17.42	17.31	Tune-up limit (dBm)
20	64QAM	100	0	17.45	17.35	17.42	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	21.2
15	QPSK	1	0	20.05	20.11	19.94	
15	QPSK	1	37	19.93	19.98	19.89	20.2
15	QPSK	1	74	19.81	19.87	19.74	
15	QPSK	36	0	19.25	19.27	19.21	
15	QPSK	36	20	19.20	19.14	19.08	20.2
15	QPSK	36	39	19.02	19.04	19.05	
15	QPSK	75	0	18.88	18.92	18.95	
15	16QAM	1	0	19.22	19.20	19.21	20.2
15	16QAM	1	37	19.13	19.11	19.23	
15	16QAM	1	74	19.12	19.17	19.19	
15	16QAM	36	0	18.23	18.21	18.30	19.2
15	16QAM	36	20	18.35	18.21	18.33	
15	16QAM	36	39	18.26	18.40	18.30	
15	16QAM	75	0	18.44	18.30	18.32	19.2
15	64QAM	1	0	18.11	18.28	18.38	
15	64QAM	1	37	18.30	18.41	18.59	
15	64QAM	1	74	18.16	18.54	18.42	18.2
15	64QAM	36	0	17.26	17.18	17.28	
15	64QAM	36	20	17.35	17.31	17.34	
15	64QAM	36	39	17.35	17.32	17.21	Tune-up limit (dBm)
15	64QAM	75	0	17.35	17.25	17.32	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	21.2
10	QPSK	1	0	19.93	19.99	19.82	
10	QPSK	1	25	19.81	19.86	19.77	20.2
10	QPSK	1	49	19.69	19.75	19.62	
10	QPSK	25	0	19.13	19.15	19.09	20.2
10	QPSK	25	12	19.08	19.02	18.96	
10	QPSK	25	25	18.90	18.92	18.93	
10	QPSK	50	0	18.76	18.80	18.83	20.2
10	16QAM	1	0	19.10	19.08	19.09	
10	16QAM	1	25	19.01	18.99	19.11	
10	16QAM	1	49	19.00	19.05	19.07	19.2
10	16QAM	25	0	18.11	18.09	18.18	
10	16QAM	25	12	18.23	18.09	18.21	
10	16QAM	25	25	18.14	18.28	18.18	19.2
10	16QAM	50	0	18.32	18.18	18.20	
10	64QAM	1	0	17.99	18.16	18.26	
10	64QAM	1	25	18.18	18.29	18.47	18.2
10	64QAM	1	49	18.04	18.42	18.30	
10	64QAM	25	0	17.14	17.06	17.16	
10	64QAM	25	12	17.23	17.19	17.22	Tune-up limit (dBm)
10	64QAM	25	25	17.23	17.20	17.09	
10	64QAM	50	0	17.23	17.13	17.20	
Channel				20775	21100	21425	21.2
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	19.82	19.88	19.71	
5	QPSK	1	12	19.70	19.75	19.66	20.2
5	QPSK	1	24	19.58	19.64	19.51	
5	QPSK	12	0	19.02	19.04	18.98	
5	QPSK	12	7	18.97	18.91	18.85	20.2
5	QPSK	12	13	18.79	18.81	18.82	
5	QPSK	25	0	18.65	18.69	18.72	
5	16QAM	1	0	18.99	18.97	18.98	20.2
5	16QAM	1	12	18.90	18.88	19.00	
5	16QAM	1	24	18.89	18.94	18.96	
5	16QAM	12	0	18.00	17.98	18.07	19.2
5	16QAM	12	7	18.12	17.98	18.10	
5	16QAM	12	13	18.03	18.17	18.07	
5	16QAM	25	0	18.21	18.07	18.09	19.2
5	64QAM	1	0	17.88	18.05	18.15	
5	64QAM	1	12	18.07	18.18	18.36	
5	64QAM	1	24	17.93	18.31	18.19	18.2
5	64QAM	12	0	17.03	16.95	17.05	
5	64QAM	12	7	17.12	17.08	17.11	
5	64QAM	12	13	17.12	17.09	16.98	Tune-up limit (dBm)
5	64QAM	25	0	17.12	17.02	17.09	
5	64QAM	25	0	17.12	17.02	17.09	

5G NR n5(Ant. 1 for Head)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	22.2
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.68	20.71	20.84	22.2
20		1	53	20.57	20.75	20.96	
20		1	104	20.53	20.65	20.89	
20		50	1	20.67	20.69	20.88	
20		50	25	20.63	20.66	20.90	
20		50	50	20.62	20.67	20.84	
20	DFT-s-OFDM QPSK	100	0	20.68	20.75	20.71	22.2
20		1	1	20.98	21.11	20.98	
20		1	53	20.78	20.85	20.86	
20		1	104	20.70	20.72	20.74	
20		50	1	20.65	20.70	20.62	
20		50	25	20.69	20.66	20.67	
20	DFT-s-OFDM QPSK	50	50	20.63	20.67	20.96	21.7
20		100	0	20.71	20.23	20.66	
20	DFT-s-OFDM	1	1	20.77	20.13	20.71	21.2
20	DFT-s-OFDM	1	1	19.35	18.38	19.30	20.7
20	DFT-s-OFDM	1	1	17.28	17.52	17.33	21.2
Channel				166300	167300	168300	21.7
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	20.11	20.13	20.03	21.7
Channel				165800	167300	168800	21.7
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM	1	1	20.43	20.56	20.18	21.7
Channel				165300	167300	169300	21.7
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	20.71	20.13	20.36	21.7
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	21.2
Frequency (MHz)				834	836.5	839	
20	CP-OFDM QPSK	1	1	20.57	20.46	19.76	21.2
20	CP-OFDM 16QAM	1	1	20.23	20.15	19.53	21.7
20	CP-OFDM 64QAM	1	1	18.23	18.33	18.28	21.7
20	CP-OFDM 256QAM	1	1	15.40	15.52	15.39	19.2

5G NR n7(Ant. 1 for Head)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	16.2
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM PI/2 BPSK	1	1	15.05	14.90	14.82	16.2
20		1	53	15.04	14.94	14.85	
20		1	104	15.00	14.87	14.78	
20		50	1	14.77	14.51	14.41	
20		50	25	15.03	15.01	14.88	
20		50	50	14.78	14.46	14.39	
20	DFT-s-OFDM QPSK	100	0	14.72	14.49	14.37	16.2
20		1	1	15.00	15.06	14.97	
20		1	53	14.92	14.79	14.92	
20		1	104	14.97	14.78	14.91	
20		50	1	14.27	14.65	13.93	
20		50	25	14.61	14.57	14.58	
20	DFT-s-OFDM QPSK	50	50	14.30	13.99	13.89	15.7
20		100	0	14.26	13.98	13.94	
20	DFT-s-OFDM	1	1	14.32	14.09	13.95	15.2
20	DFT-s-OFDM	1	1	12.56	12.21	12.19	13.2
20	DFT-s-OFDM	1	1	10.69	10.51	10.26	11.7
Channel				501500	507000	512500	16.2
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	15.00	14.86	14.76	16.2
Channel				501000	507000	513000	16.2
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM	1	1	15.00	14.96	14.91	16.2
Channel				500500	507000	513500	16.2
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	14.93	14.95	14.94	16.2
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	14.7
Frequency (MHz)				2510	2535	1767.5	
20	CP-OFDM QPSK	1	1	13.73	13.45	13.29	14.7
20	CP-OFDM 16QAM	1	1	13.43	13.25	13.09	14.2
20	CP-OFDM 64QAM	1	1	11.41	11.18	11.01	12.2
20	CP-OFDM 256QAM	1	1	8.84	8.55	8.41	9.7

5G NR n38(Ant. 1 for Head)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	16.2
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.20	15.51	15.08	
40		1	53	15.43	15.43	15.19	16.2
40		1	104	14.87	14.85	14.58	
40		50	1	15.19	15.00	14.56	
40		50	25	15.43	15.33	15.20	
40		50	50	14.94	14.91	14.75	
40	DFT-s-OFDM QPSK	100	0	15.15	14.91	14.51	16.2
40		1	1	15.45	15.54	15.36	
40		1	53	15.40	15.41	15.22	
40		1	104	14.69	14.75	15.01	
40		50	1	14.41	14.50	14.43	
40		50	25	15.12	15.34	15.10	16.2
40	DFT-s-OFDM	50	50	14.47	14.42	14.44	
40		100	0	14.69	14.35	14.32	
40		1	1	14.68	14.52	14.14	
40	DFT-s-OFDM	1	1	12.97	12.85	12.36	14.2
40	DFT-s-OFDM	1	1	11.16	11.35	10.73	12.2
Channel				516000	519000	522000	16.2
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM	1	1	14.91	14.90	15.02	
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	15.2
Frequency (MHz)				2590	2595	2600	
40	CP-OFDM QPSK	1	1	14.34	14.07	13.93	
40	CP-OFDM 16QAM	1	1	13.65	13.72	13.59	14.2
40	CP-OFDM 64QAM	1	1	12.17	12.02	12.33	13.2
40	CP-OFDM 256QAM	1	1	9.35	9.07	8.89	10.2

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5G NR n41(Ant. 1 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				509202	513900	518598	523296	528000	17.2
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.84	15.90	15.61	15.97	15.90	
100		1	136	15.66	15.92	15.85	15.83	15.98	17.2
100		1	272	15.38	15.56	15.60	15.34	15.62	
100		135	1	15.59	15.50	15.54	15.54	15.64	
100		135	67	15.95	15.97	16.00	16.00	15.98	
100		135	136	15.58	15.47	15.38	15.49	15.53	
100	DFT-s-OFDM QPSK	270	0	15.50	15.42	15.50	15.48	15.44	17.2
100		1	1	15.87	16.08	16.18	16.03	15.97	
100		1	136	15.70	16.01	15.62	15.92	16.02	
100		1	272	15.76	15.60	15.47	15.50	15.59	
100		135	1	15.62	15.97	15.98	15.59	15.74	
100		135	67	15.92	15.95	15.94	15.96	15.96	17.2
100	DFT-s-OFDM	135	136	15.97	15.93	15.81	15.89	15.89	
100		270	0	15.03	15.12	15.00	14.92	14.93	
100		1	1	14.55	14.96	15.09	15.01	14.84	
100	DFT-s-OFDM	1	1	13.30	12.96	12.99	13.31	13.33	14.2
100	DFT-s-OFDM	1	1	11.08	11.93	11.08	11.62	11.47	12.2
Channel				508200	513402	518598	523800	528996	17.2
Frequency (MHz)				2541	2567	2593	2619	2645	
90	DFT-s-OFDM	1	1	15.30	15.39	15.50	15.29	15.56	
Channel				507204	512904	518598	524298	529998	17.2
Frequency (MHz)				2536	2564.5	2593	2621.5	2650	
80	DFT-s-OFDM	1	1	15.33	15.27	15.41	15.30	15.51	
Channel				505200	511902	518598	525300	531996	17.2
Frequency (MHz)				2526	2559.5	2593	2626.5	2660	
60	DFT-s-OFDM	1	1	15.50	15.65	15.62	15.72	15.72	
Channel				504204	511404	518598	525798	532998	17.2
Frequency (MHz)				2521	2557	2593	2629	2665	
50	DFT-s-OFDM	1	1	15.75	15.65	15.77	15.74	15.85	
Channel				503202	510900	518598	526296	534000	17.2
Frequency (MHz)				2516	2554.5	2593	2631.5	2670	
40	DFT-s-OFDM	1	1	15.74	15.69	15.78	15.81	15.78	
Channel				502200	510402	518598	526800	534996	17.2
Frequency (MHz)				2511	2552	2593	2634	2675	
30	DFT-s-OFDM	1	1	15.86	15.58	15.61	15.68	15.90	
Channel				501204	509898	518598	527298	535998	17.2
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	DFT-s-OFDM	1	1	15.58	15.66	15.58	15.83	15.65	
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	15.2
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	CP-OFDM QPSK	1	1	14.37	14.42	14.34	14.41	14.61	
100	CP-OFDM 16QAM	1	1	13.93	13.95	13.96	14.37	14.19	15.2
100	CP-OFDM 64QAM	1	1	12.44	12.59	12.12	12.43	12.37	16.2
100	CP-OFDM 256QAM	1	1	9.29	9.34	9.37	9.33	9.46	18.2

5G NR n7(Ant.1 for Body)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.55	19.40	19.32	20.7
20		1	53	19.54	19.44	19.35	
20		1	104	19.50	19.37	19.28	
20		50	1	19.27	19.01	18.91	20.2
20		50	25	19.53	19.51	19.38	
20		50	50	19.28	18.96	18.89	
20		100	0	19.22	18.99	18.87	
20	DFT-s-OFDM QPSK	1	1	19.50	19.56	19.37	20.7
20		1	53	19.42	19.29	19.42	
20		1	104	19.47	19.28	19.41	
20		50	1	18.77	19.15	18.43	20.2
20		50	25	19.11	19.07	19.08	
20		50	50	18.80	18.49	18.39	
20		100	0	18.76	18.48	18.44	
20	DFT-s-OFDM	1	1	18.82	18.59	18.45	19.7
20	DFT-s-OFDM	1	1	17.06	16.71	16.69	18.2
20	DFT-s-OFDM	1	1	15.19	15.01	14.76	16.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.50	19.36	19.26	20.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM	1	1	19.93	20.06	19.68	20.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.43	19.45	19.44	20.7
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	1767.5	
20	CP-OFDM QPSK	1	1	18.23	17.95	17.79	19.2
20	CP-OFDM 16QAM	1	1	17.93	17.75	17.59	18.7
20	CP-OFDM 64QAM	1	1	15.91	15.68	15.51	16.7
20	CP-OFDM 256QAM	1	1	13.34	13.05	12.91	14.2

5G NR n38(Ant.1 for Body)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	21.2
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	20.20	20.51	20.08	
40		1	53	20.43	20.43	20.19	21.2
40		1	104	19.87	19.85	19.58	
40		50	1	20.19	20.00	19.56	
40		50	25	20.43	20.33	20.20	
40		50	50	19.94	19.91	19.75	
40		100	0	20.15	19.91	19.51	
40		1	1	20.45	20.54	20.36	21.2
40		1	53	20.40	20.41	20.22	
40		1	104	19.69	19.75	20.01	
40	DFT-s-OFDM QPSK	50	1	19.41	19.50	19.43	20.2
40		50	25	20.12	20.34	20.10	
40		50	50	19.47	19.42	19.44	
40		100	0	19.69	19.35	19.32	
40	DFT-s-OFDM	1	1	19.68	19.52	19.14	20.2
40	DFT-s-OFDM	1	1	17.97	17.85	17.36	19.2
40	DFT-s-OFDM	1	1	16.16	16.35	15.73	17.2
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	21.2
20	DFT-s-OFDM	1	1	19.91	19.90	20.02	
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	20
Frequency (MHz)				2590	2595	2600	
40	CP-OFDM QPSK	1	1	19.34	19.07	18.93	20
40	CP-OFDM 16QAM	1	1	18.65	18.72	18.59	19.2
40	CP-OFDM 64QAM	1	1	17.17	17.02	17.33	18.2
40	CP-OFDM 256QAM	1	1	14.35	14.07	13.89	15.2

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5G NR n41(Ant.1 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				509202	513900	518598	523296	528000	22.2	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640		
100	DFT-s-OFDM PI/2 BPSK	1	1	21.34	21.40	21.11	21.47	21.40	22.2	22.2
100		1	136	21.16	21.42	21.35	21.33	21.48		
100		1	272	20.88	21.06	21.10	20.84	21.12		
100		135	1	21.09	21.00	21.04	21.04	21.14		
100		135	67	21.45	21.47	21.50	21.50	21.48		
100		135	136	21.08	20.97	20.88	20.99	21.03	22.2	22.2
100		270	0	21.00	20.92	21.00	20.98	20.94		
100		1	1	21.37	21.58	21.68	21.53	21.47		
100		1	136	21.20	21.51	21.12	21.42	21.52		
100		1	272	21.26	21.10	20.97	21.00	21.09		
100	DFT-s-OFDM QPSK	135	1	21.12	21.47	21.48	21.09	21.24	22.2	22.2
100		135	67	21.42	21.45	21.44	21.46	21.46		
100		135	136	21.47	21.43	21.31	21.39	21.44		
100		270	0	20.53	20.62	20.50	20.42	20.43		
100	DFT-s-OFDM	1	1	20.05	20.46	20.59	20.51	20.34		
100	DFT-s-OFDM	1	1	18.80	18.46	18.49	18.81	18.83	20.2	
100	DFT-s-OFDM	1	1	16.58	17.43	16.58	17.12	16.97	17.2	
Channel				508200	513402	518598	523800	528996	Tune-up limit (dbm)	
Frequency (MHz)				2541	2567	2593	2619	2645	22.2	
90	DFT-s-OFDM	1	1	20.80	20.89	21.00	20.79	21.06		
Channel				507204	512904	518598	524298	529998	Tune-up limit (dbm)	
Frequency (MHz)				2536	2564.5	2593	2621.5	2650	22.2	
80	DFT-s-OFDM	1	1	20.83	20.77	20.91	20.80	21.01		
Channel				505200	511902	518598	525300	531996	Tune-up limit (dbm)	
Frequency (MHz)				2526	2559.5	2593	2626.5	2660	22.2	
60	DFT-s-OFDM	1	1	21.00	21.15	21.12	21.22	21.22		
Channel				504204	511404	518598	525798	532998	Tune-up limit (dbm)	
Frequency (MHz)				2521	2557	2593	2629	2665	22.2	
50	DFT-s-OFDM	1	1	21.25	21.15	21.27	21.24	21.35		
Channel				503202	510900	518598	526296	534000	Tune-up limit (dbm)	
Frequency (MHz)				2516	2554.5	2593	2631.5	2670	22.2	
40	DFT-s-OFDM	1	1	21.24	21.19	21.28	21.31	21.28		
Channel				502200	510402	518598	526800	534996	Tune-up limit (dbm)	
Frequency (MHz)				2511	2552	2593	2634	2675	22.2	
30	DFT-s-OFDM	1	1	21.36	21.08	21.11	21.18	21.40		
Channel				501204	509898	518598	527298	535998	Tune-up limit (dbm)	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	22.2	
20	DFT-s-OFDM	1	1	21.08	21.16	21.08	21.33	21.15		
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dbm)	
Channel				509202	513900	518598	523296	528000	21.2	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640		
100	CP-OFDM QPSK	1	1	19.87	19.92	19.84	19.91	20.11		
100	CP-OFDM 16QAM	1	1	19.43	19.45	19.46	19.87	19.69	20.2	
100	CP-OFDM 64QAM	1	1	17.94	18.09	17.62	17.93	17.87	19.2	
100	CP-OFDM 256QAM	1	1	14.79	14.84	14.87	14.83	14.96	16.2	

LTE Band 2(Ant.1 for Head ENDC)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	11.72	11.76	11.68	12.5
20	QPSK	1	49	11.31	11.28	11.33	
20	QPSK	1	99	11.23	11.19	11.16	
20	QPSK	50	0	10.70	10.76	10.74	
20	QPSK	50	24	10.38	10.39	10.42	11.5
20	QPSK	50	50	10.27	10.33	10.36	
20	QPSK	100	0	10.16	10.15	10.14	
20	16QAM	1	0	10.54	10.53	10.61	
20	16QAM	1	49	10.26	10.25	10.41	11.5
20	16QAM	1	99	10.20	10.17	10.15	
20	16QAM	50	0	9.09	9.06	9.06	
20	16QAM	50	24	9.05	9.07	9.03	
20	16QAM	50	50	9.03	8.98	8.97	10.5
20	16QAM	100	0	9.04	8.96	8.95	
20	64QAM	1	0	9.56	9.63	9.54	
20	64QAM	1	49	9.49	9.60	9.48	
20	64QAM	1	99	9.40	9.54	9.49	9.5
20	64QAM	50	0	8.54	8.64	8.54	
20	64QAM	50	24	8.69	8.43	8.41	
20	64QAM	50	50	8.61	8.55	8.48	
20	64QAM	100	0	8.58	8.57	8.51	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	11.31	11.42	11.35	12.5
15	QPSK	1	37	11.19	11.16	11.21	
15	QPSK	1	74	11.11	11.07	11.04	
15	QPSK	36	0	10.35	10.43	10.36	
15	QPSK	36	20	10.26	10.27	10.30	11.5
15	QPSK	36	39	10.15	10.21	10.24	
15	QPSK	75	0	10.04	10.03	10.02	
15	16QAM	1	0	10.42	10.41	10.49	
15	16QAM	1	37	10.14	10.13	10.29	11.5
15	16QAM	1	74	10.08	10.05	10.03	
15	16QAM	36	0	8.97	8.94	8.94	
15	16QAM	36	20	8.93	8.95	8.91	
15	16QAM	36	39	8.91	8.86	8.85	10.5
15	16QAM	75	0	8.92	8.84	8.83	
15	64QAM	1	0	9.44	9.51	9.42	
15	64QAM	1	37	9.37	9.48	9.36	
15	64QAM	1	74	9.28	9.42	9.37	10.5
15	64QAM	36	0	8.42	8.52	8.42	
15	64QAM	36	20	8.57	8.31	8.29	
15	64QAM	36	39	8.49	8.43	8.36	
15	64QAM	75	0	8.46	8.45	8.39	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	11.19	11.30	11.23	12.5
10	QPSK	1	25	11.07	11.04	11.09	
10	QPSK	1	49	10.99	10.95	10.92	
10	QPSK	25	0	10.23	10.31	10.24	
10	QPSK	25	12	10.14	10.15	10.18	11.5
10	QPSK	25	25	10.03	10.09	10.12	
10	QPSK	50	0	9.92	9.91	9.90	
10	16QAM	1	0	10.30	10.29	10.37	
10	16QAM	1	25	10.02	10.01	10.17	11.5
10	16QAM	1	49	9.96	9.93	9.91	
10	16QAM	25	0	8.85	8.82	8.82	
10	16QAM	25	12	8.81	8.83	8.79	
10	16QAM	25	25	8.79	8.74	8.73	10.5
10	16QAM	50	0	8.80	8.72	8.71	
10	64QAM	1	0	9.32	9.39	9.30	
10	64QAM	1	25	9.25	9.36	9.24	
10	64QAM	1	49	9.16	9.30	9.25	10.5
10	64QAM	25	0	8.30	8.40	8.30	
10	64QAM	25	12	8.45	8.19	8.17	
10	64QAM	25	25	8.37	8.31	8.24	
10	64QAM	50	0	8.34	8.33	8.27	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	11.08	11.19	11.12	12.5
5	QPSK	1	12	10.96	10.93	10.98	
5	QPSK	1	24	10.88	10.84	10.81	
5	QPSK	12	0	10.12	10.20	10.13	
5	QPSK	12	7	10.03	10.04	10.07	11.5
5	QPSK	12	13	9.92	9.98	10.01	
5	QPSK	25	0	9.81	9.80	9.79	
5	16QAM	1	0	10.19	10.18	10.16	
5	16QAM	1	12	9.91	9.90	10.06	11.5
5	16QAM	1	24	9.85	9.82	9.80	
5	16QAM	12	0	8.74	8.71	8.71	
5	16QAM	12	7	8.70	8.72	8.68	
5	16QAM	12	13	8.68	8.63	8.62	10.5
5	16QAM	25	0	8.69	8.61	8.60	
5	64QAM	1	0	9.11	9.18	9.19	
5	64QAM	1	12	9.14	9.15	9.13	
5	64QAM	1	24	9.05	9.19	9.14	9.5
5	64QAM	12	0	8.19	8.29	8.19	
5	64QAM	12	7	8.34	8.08	8.06	
5	64QAM	12	13	8.26	8.20	8.13	
5	64QAM	25	0	8.23	8.22	8.16	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	10.85	10.96	10.89	12.5
3	QPSK	1	8	10.73	10.70	10.75	
3	QPSK	1	14	10.65	10.61	10.58	
3	QPSK	8	0	9.89	9.97	9.90	
3	QPSK	8	4	9.80	9.81	9.84	11.5
3	QPSK	8	7	9.69	9.75	9.78	
3	QPSK	15	0	9.58	9.57	9.56	
3	16QAM	1	0	9.96	9.95	9.93	
3	16QAM	1	8	9.68	9.67	9.83	11.5
3	16QAM	1	14	9.62	9.59	9.57	
3	16QAM	8	0	8.51	8.48	8.48	

LTE Band 5(Ant.1 for Head ENDC)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450.00	20525.00	20600.00	
Frequency (MHz)				829.00	836.50	844.00	
10.00	QPSK	1.00	0	21.40	21.41	21.38	22.50
10.00	QPSK	1.00	25	21.29	21.25	21.27	
10.00	QPSK	1.00	49	21.10	21.18	21.11	
10.00	QPSK	25.00	0	20.34	20.40	20.32	
10.00	QPSK	25.00	12	20.30	20.33	20.26	21.50
10.00	QPSK	25.00	25	20.19	20.18	20.20	
10.00	QPSK	50.00	0	20.20	20.28	20.20	
10.00	16QAM	1.00	0	20.35	20.44	20.39	
10.00	16QAM	1.00	25	20.20	20.25	20.22	21.50
10.00	16QAM	1.00	49	20.20	20.23	20.32	
10.00	16QAM	25.00	0	19.41	19.37	19.36	
10.00	16QAM	25.00	12	19.22	19.27	19.29	
10.00	16QAM	25.00	25	19.32	19.36	19.26	20.50
10.00	16QAM	50.00	0	19.25	19.36	19.22	
10.00	64QAM	1.00	0	19.27	19.34	19.34	
10.00	64QAM	1.00	25	19.36	19.47	19.65	
10.00	64QAM	1.00	49	19.22	19.30	19.28	20.50
10.00	64QAM	25.00	0	18.32	18.24	18.34	
10.00	64QAM	25.00	12	18.41	18.37	18.40	
10.00	64QAM	25.00	25	18.41	18.38	18.27	
10.00	64QAM	50.00	0	18.41	18.31	18.38	19.50
Channel				20425.00	20525.00	20625.00	
Frequency (MHz)				826.50	836.50	846.50	Tune-up limit (dBm)
5.00	QPSK	1.00	0	21.18	21.23	21.15	22.50
5.00	QPSK	1.00	12	21.07	21.13	21.05	
5.00	QPSK	1.00	24	20.98	21.06	20.96	
5.00	QPSK	12.00	0	20.22	20.28	20.20	
5.00	QPSK	12.00	7	20.18	20.21	20.14	21.50
5.00	QPSK	12.00	13	20.07	20.06	20.08	
5.00	QPSK	25.00	0	20.08	20.16	20.08	
5.00	16QAM	1.00	0	20.03	20.12	20.07	
5.00	16QAM	1.00	12	20.08	20.07	20.10	21.50
5.00	16QAM	1.00	24	20.08	20.11	20.33	
5.00	16QAM	12.00	0	19.29	19.25	19.24	
5.00	16QAM	12.00	7	19.10	19.15	19.17	
5.00	16QAM	12.00	13	19.20	19.24	19.14	20.50
5.00	16QAM	25.00	0	19.13	19.24	19.10	
5.00	64QAM	1.00	0	19.15	19.22	19.22	
5.00	64QAM	1.00	12	19.24	19.35	19.53	
5.00	64QAM	1.00	24	19.10	19.18	19.16	20.50
5.00	64QAM	12.00	0	18.20	18.12	18.22	
5.00	64QAM	12.00	7	18.29	18.25	18.28	
5.00	64QAM	12.00	13	18.29	18.26	18.15	
5.00	64QAM	25.00	0	18.29	18.19	18.26	19.50
Channel				20415.00	20525.00	20635.00	
Frequency (MHz)				825.50	836.50	847.50	Tune-up limit (dBm)
3.00	QPSK	1.00	0	21.07	21.12	21.04	22.50
3.00	QPSK	1.00	8	20.96	21.02	20.94	
3.00	QPSK	1.00	14	20.87	20.95	20.85	
3.00	QPSK	8.00	0	20.11	20.17	20.09	
3.00	QPSK	8.00	4	20.07	20.10	20.03	21.50
3.00	QPSK	8.00	7	19.96	19.95	19.97	
3.00	QPSK	15.00	0	19.97	20.05	19.97	
3.00	16QAM	1.00	0	19.92	20.01	19.96	
3.00	16QAM	1.00	8	19.97	19.96	19.99	21.50
3.00	16QAM	1.00	14	19.97	20.00	20.22	
3.00	16QAM	8.00	0	19.18	19.14	19.13	
3.00	16QAM	8.00	4	18.99	19.04	19.06	
3.00	16QAM	8.00	7	19.09	19.13	19.03	20.50
3.00	16QAM	15.00	0	19.02	19.13	18.99	
3.00	64QAM	1.00	0	19.04	19.11	19.11	
3.00	64QAM	1.00	8	19.13	19.24	19.42	
3.00	64QAM	1.00	14	18.99	19.07	19.05	20.50
3.00	64QAM	8.00	0	18.09	18.01	18.11	
3.00	64QAM	8.00	4	18.18	18.14	18.17	
3.00	64QAM	8.00	7	18.18	18.15	18.04	
3.00	64QAM	15.00	0	18.18	18.08	18.15	19.50
Channel				20407.00	20525.00	20643.00	
Frequency (MHz)				824.70	836.50	848.30	Tune-up limit (dBm)
1.40	QPSK	1.00	0	20.97	21.02	20.94	22.50
1.40	QPSK	1.00	3	20.86	20.92	20.84	
1.40	QPSK	1.00	5	20.77	20.85	20.75	
1.40	QPSK	3.00	0	20.01	20.07	19.99	
1.40	QPSK	3.00	1	19.97	20.00	19.93	21.50
1.40	QPSK	3.00	3	19.86	19.85	19.87	
1.40	QPSK	6.00	0	19.87	19.95	19.87	
1.40	16QAM	1.00	0	19.82	19.91	19.86	
1.40	16QAM	1.00	3	19.87	19.86	19.89	21.50
1.40	16QAM	1.00	5	19.87	19.90	20.12	
1.40	16QAM	3.00	0	19.08	19.04	19.03	
1.40	16QAM	3.00	1	18.89	18.94	18.96	
1.40	16QAM	3.00	3	18.99	19.03	18.93	20.50
1.40	16QAM	6.00	0	18.92	19.03	18.89	
1.40	64QAM	1.00	0	18.94	19.01	19.01	
1.40	64QAM	1.00	3	19.03	19.14	19.32	
1.40	64QAM	1.00	5	18.89	18.97	18.95	20.50
1.40	64QAM	3.00	0	17.99	17.91	18.01	
1.40	64QAM	3.00	1	18.08	18.04	18.07	
1.40	64QAM	3.00	3	18.08	18.05	17.94	
1.40	64QAM	6.00	0	18.08	17.98	18.05	19.50

3	16QAM	8	4	8.47	8.49	8.45	10.5
3	16QAM	8	7	8.45	8.40	8.39	
3	16QAM	15	0	8.46	8.38	8.37	
3	64QAM	1	0	8.88	8.95	8.96	9.5
3	64QAM	1	8	8.91	8.92	8.90	
3	64QAM	1	14	8.82	8.96	8.91	
3	64QAM	8	0	7.96	8.06	7.96	8.5
3	64QAM	8	4	8.11	7.85	7.83	
3	64QAM	8	7	8.03	7.97	7.90	
3	64QAM	15	0	8.00	7.99	7.93	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	10.62	10.63	10.56	12.5
1.4	QPSK	1	3	10.60	10.57	10.62	
1.4	QPSK	1	5	10.52	10.48	10.45	
1.4	QPSK	3	0	9.76	9.84	9.77	11.5
1.4	QPSK	3	1	9.67	9.68	9.71	
1.4	QPSK	3	3	9.56	9.62	9.65	
1.4	QPSK	6	0	9.45	9.44	9.43	
1.4	16QAM	1	0	9.83	9.82	9.80	11.5
1.4	16QAM	1	3	9.55	9.54	9.70	
1.4	16QAM	1	5	9.49	9.46	9.44	
1.4	16QAM	3	0	8.38	8.35	8.35	
1.4	16QAM	3	1	8.34	8.36	8.32	10.5
1.4	16QAM	3	3	8.32	8.27	8.26	
1.4	16QAM	6	0	8.33	8.25	8.24	
1.4	64QAM	1	0	8.75	8.82	8.83	9.5
1.4	64QAM	1	3	8.78	8.79	8.77	
1.4	64QAM	1	5	8.69	8.83	8.78	
1.4	64QAM	3	0	7.83	7.93	7.83	
1.4	64QAM	3	1	7.98	7.72	7.70	8.5
1.4	64QAM	3	3	7.90	7.84	7.77	
1.4	64QAM	6	0	7.87	7.86	7.80	

LTE Band 7(Ant.1 for Head ENDC)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.65	16.71	16.54	17.7
20	QPSK	1	49	16.53	16.58	16.49	
20	QPSK	1	99	16.41	16.47	16.34	
20	QPSK	50	0	15.85	15.87	15.81	
20	QPSK	50	24	15.80	15.74	15.68	16.7
20	QPSK	50	50	15.62	15.64	15.65	
20	QPSK	100	0	15.48	15.52	15.55	
20	16QAM	1	0	15.82	15.80	15.81	
20	16QAM	1	49	15.73	15.71	15.83	16.7
20	16QAM	1	99	15.72	15.77	15.79	
20	16QAM	50	0	14.83	14.81	14.90	
20	16QAM	50	24	14.95	14.81	14.93	
20	16QAM	50	50	14.86	15.00	14.90	15.7
20	16QAM	100	0	15.04	14.90	14.92	
20	64QAM	1	0	14.71	14.88	14.98	
20	64QAM	1	49	14.90	15.01	15.19	
20	64QAM	1	99	14.76	15.14	15.02	15.7
20	64QAM	50	0	13.86	13.78	13.88	
20	64QAM	50	24	13.95	13.91	13.94	
20	64QAM	50	50	13.95	13.92	13.81	
20	64QAM	100	0	13.95	13.85	13.92	14.7
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.55	16.61	16.44	17.7
15	QPSK	1	37	16.43	16.48	16.39	
15	QPSK	1	74	16.31	16.37	16.24	
15	QPSK	36	0	15.75	15.77	15.71	
15	QPSK	36	20	15.70	15.64	15.58	16.7
15	QPSK	36	39	15.52	15.54	15.55	
15	QPSK	75	0	15.38	15.42	15.45	
15	16QAM	1	0	15.72	15.70	15.71	
15	16QAM	1	37	15.63	15.61	15.73	16.7
15	16QAM	1	74	15.62	15.67	15.69	
15	16QAM	36	0	14.73	14.71	14.80	
15	16QAM	36	20	14.85	14.71	14.83	
15	16QAM	36	39	14.76	14.90	14.80	15.7
15	16QAM	75	0	14.94	14.80	14.82	
15	64QAM	1	0	14.61	14.78	14.88	
15	64QAM	1	37	14.80	14.91	15.09	
15	64QAM	1	74	14.66	15.04	14.92	15.7
15	64QAM	36	0	13.76	13.68	13.78	
15	64QAM	36	20	13.85	13.81	13.84	
15	64QAM	36	39	13.85	13.82	13.71	
15	64QAM	75	0	13.85	13.75	13.82	14.7
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.43	16.49	16.32	17.7
10	QPSK	1	25	16.31	16.36	16.27	
10	QPSK	1	49	16.19	16.25	16.12	
10	QPSK	25	0	15.63	15.65	15.59	
10	QPSK	25	12	15.58	15.52	15.46	16.7
10	QPSK	25	25	15.40	15.42	15.43	
10	QPSK	50	0	15.26	15.30	15.33	
10	16QAM	1	0	15.60	15.58	15.59	
10	16QAM	1	25	15.51	15.49	15.61	16.7
10	16QAM	1	49	15.50	15.55	15.57	
10	16QAM	25	0	14.61	14.59	14.68	
10	16QAM	25	12	14.73	14.59	14.71	
10	16QAM	25	25	14.64	14.78	14.68	15.7
10	16QAM	50	0	14.82	14.68	14.70	
10	64QAM	1	0	14.49	14.66	14.76	
10	64QAM	1	25	14.68	14.79	14.97	
10	64QAM	1	49	14.54	14.92	14.80	15.7
10	64QAM	25	0	13.64	13.56	13.66	
10	64QAM	25	12	13.73	13.69	13.72	
10	64QAM	25	25	13.73	13.70	13.59	
10	64QAM	50	0	13.73	13.63	13.70	14.7
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.32	16.38	16.21	17.7
5	QPSK	1	12	16.20	16.25	16.16	
5	QPSK	1	24	16.08	16.14	16.01	
5	QPSK	12	0	15.52	15.54	15.48	
5	QPSK	12	7	15.47	15.41	15.35	16.7
5	QPSK	12	13	15.29	15.31	15.32	
5	QPSK	25	0	15.15	15.19	15.22	
5	16QAM	1	0	15.49	15.47	15.48	
5	16QAM	1	12	15.40	15.38	15.50	16.7
5	16QAM	1	24	15.39	15.44	15.46	
5	16QAM	12	0	14.50	14.48	14.57	
5	16QAM	12	7	14.62	14.48	14.60	
5	16QAM	12	13	14.53	14.67	14.57	15.7
5	16QAM	25	0	14.71	14.57	14.59	
5	64QAM	1	0	14.38	14.55	14.65	
5	64QAM	1	12	14.57	14.68	14.86	
5	64QAM	1	24	14.43	14.81	14.69	15.7
5	64QAM	12	0	13.53	13.45	13.55	
5	64QAM	12	7	13.62	13.58	13.61	
5	64QAM	12	13	13.62	13.59	13.48	
5	64QAM	25	0	13.62	13.52	13.59	14.7

LTE Band 26(Ant.1 for Head ENDC)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	21.57	21.65	21.58	22.5
15	QPSK	1	37	21.39	21.42	21.35	
15	QPSK	1	74	21.24	21.28	21.27	
15	QPSK	36	0	20.65	20.68	20.60	
15	QPSK	36	20	20.66	20.63	20.59	21.5
15	QPSK	36	39	20.59	20.57	20.53	
15	QPSK	75	0	20.68	20.64	20.63	
15	16QAM	1	0	21.24	21.04	20.84	
15	16QAM	1	37	21.03	20.91	20.81	21.5
15	16QAM	1	74	20.84	20.78	20.76	
15	16QAM	36	0	19.72	19.69	19.65	
15	16QAM	36	20	19.68	19.65	19.61	
15	16QAM	36	39	19.64	19.62	19.69	20.5
15	16QAM	75	0	19.69	19.67	19.65	
15	64QAM	1	0	19.91	19.95	19.90	
15	64QAM	1	37	19.73	19.81	19.85	
15	64QAM	1	74	19.95	19.94	19.91	20.5
15	64QAM	36	0	18.70	18.85	18.84	
15	64QAM	36	20	18.75	18.71	18.71	
15	64QAM	36	39	18.71	18.65	18.71	
15	64QAM	75	0	18.74	18.71	18.76	19.5
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.46	21.54	21.47	22.5
10	QPSK	1	25	21.28	21.31	21.24	
10	QPSK	1	49	21.13	21.17	21.16	
10	QPSK	25	0	20.54	20.57	20.49	
10	QPSK	25	12	20.55	20.52	20.48	21.5
10	QPSK	25	25	20.48	20.46	20.42	
10	QPSK	50	0	20.57	20.53	20.52	
10	16QAM	1	0	21.13	20.93	20.73	
10	16QAM	1	25	20.92	20.80	20.70	21.5
10	16QAM	1	49	20.73	20.67	20.65	
10	16QAM	25	0	19.61	19.58	19.54	
10	16QAM	25	12	19.57	19.54	19.50	
10	16QAM	25	25	19.53	19.51	19.58	20.5
10	16QAM	50	0	19.58	19.56	19.54	
10	64QAM	1	0	19.80	19.84	19.79	
10	64QAM	1	25	19.62	19.70	19.74	
10	64QAM	1	49	19.84	19.83	19.80	20.5
10	64QAM	25	0	18.59	18.74	18.73	
10	64QAM	25	12	18.64	18.60	18.60	
10	64QAM	25	25	18.60	18.54	18.60	
10	64QAM	50	0	18.63	18.60	18.65	19.5
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	21.33	21.41	21.34	22.5
5	QPSK	1	12	21.15	21.18	21.11	
5	QPSK	1	24	21.00	21.04	21.03	
5	QPSK	12	0	20.41	20.44	20.36	
5	QPSK	12	7	20.42	20.39	20.35	21.5
5	QPSK	12	13	20.35	20.33	20.29	
5	QPSK	25	0	20.44	20.40	20.39	
5	16QAM	1	0	21.00	20.80	20.60	
5	16QAM	1	12	20.79	20.67	20.57	21.5
5	16QAM	1	24	20.60	20.54	20.52	
5	16QAM	12	0	19.48	19.45	19.41	
5	16QAM	12	7	19.44	19.41	19.37	
5	16QAM	12	13	19.40	19.38	19.45	20.5
5	16QAM	25	0	19.45	19.43	19.41	
5	64QAM	1	0	19.67	19.71	19.66	
5	64QAM	1	12	19.49	19.57	19.61	
5	64QAM	1	24	19.71	19.70	19.67	

1.4	16QAM	3	1	19.19	19.16	19.12	
1.4	16QAM	3	3	19.15	19.13	19.20	
1.4	16QAM	6	0	19.20	19.18	19.16	20.5
1.4	16QAM	1	0	19.42	19.46	19.41	
1.4	16QAM	1	3	19.24	19.32	19.36	
1.4	16QAM	1	5	19.46	19.45	19.42	
1.4	16QAM	3	0	18.21	18.36	18.35	20.5
1.4	16QAM	3	1	18.26	18.22	18.22	
1.4	16QAM	3	3	18.22	18.16	18.22	
1.4	16QAM	6	0	18.25	18.22	18.27	19.5

LTE Band 66(Ant.4 for Head ENDC)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.35	22.46	22.41	23.3
20	QPSK	1	49	22.27	22.34	22.29	
20	QPSK	1	99	22.12	22.25	22.21	
20	QPSK	50	0	21.49	21.54	21.50	
20	QPSK	50	24	21.36	21.32	21.41	22.3
20	QPSK	50	50	21.24	21.21	21.38	
20	QPSK	100	0	21.17	21.13	21.22	
20	16QAM	1	0	21.32	21.37	21.33	
20	16QAM	1	49	21.30	21.24	21.40	22.3
20	16QAM	1	99	21.23	21.31	21.38	
20	16QAM	50	0	20.44	20.36	20.41	
20	16QAM	50	24	20.40	20.43	20.49	
20	16QAM	50	50	20.55	20.42	20.36	21.3
20	16QAM	100	0	20.60	20.40	20.45	
20	64QAM	1	0	20.34	20.52	20.59	
20	64QAM	1	49	20.49	20.49	20.53	
20	64QAM	1	99	20.46	20.60	20.65	21.3
20	64QAM	50	0	19.55	19.53	19.55	
20	64QAM	50	24	19.65	19.55	19.43	
20	64QAM	50	50	19.60	19.48	19.37	
20	64QAM	100	0	19.42	19.50	19.41	20.3
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)
15	QPSK	1	0	22.23	22.34	22.29	23.3
15	QPSK	1	37	22.15	22.22	22.17	
15	QPSK	1	74	22.00	22.13	22.09	
15	QPSK	36	0	21.37	21.42	21.38	
15	QPSK	36	20	21.24	21.20	21.29	22.3
15	QPSK	36	39	21.12	21.09	21.26	
15	QPSK	75	0	21.05	21.01	21.10	
15	16QAM	1	0	21.20	21.25	21.21	
15	16QAM	1	37	21.18	21.12	21.28	22.3
15	16QAM	1	74	21.11	21.19	21.26	
15	16QAM	36	0	20.32	20.24	20.29	
15	16QAM	36	20	20.28	20.31	20.37	
15	16QAM	36	39	20.43	20.30	20.24	21.3
15	16QAM	75	0	20.48	20.28	20.33	
15	64QAM	1	0	20.22	20.40	20.47	
15	64QAM	1	37	20.37	20.37	20.41	
15	64QAM	1	74	20.34	20.48	20.53	21.3
15	64QAM	36	0	19.43	19.41	19.43	
15	64QAM	36	20	19.53	19.43	19.31	
15	64QAM	36	39	19.48	19.36	19.25	
15	64QAM	75	0	19.30	19.38	19.29	20.3
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)
10	QPSK	1	0	22.11	22.22	22.17	23.3
10	QPSK	1	25	22.03	22.10	22.05	
10	QPSK	1	49	21.88	22.01	21.97	
10	QPSK	25	0	21.25	21.30	21.26	
10	QPSK	25	12	21.12	21.08	21.17	22.3
10	QPSK	25	25	21.00	20.97	21.14	
10	QPSK	50	0	20.93	20.89	20.98	
10	16QAM	1	0	21.08	21.13	21.09	
10	16QAM	1	25	21.06	21.00	21.16	22.3
10	16QAM	1	49	20.99	21.07	21.14	
10	16QAM	25	0	20.20	20.12	20.17	
10	16QAM	25	12	20.16	20.19	20.25	
10	16QAM	25	25	20.31	20.18	20.12	21.3
10	16QAM	50	0	20.36	20.16	20.21	
10	64QAM	1	0	20.10	20.28	20.35	
10	64QAM	1	25	20.25	20.25	20.29	
10	64QAM	1	49	20.22	20.36	20.41	21.3
10	64QAM	25	0	19.31	19.29	19.31	
10	64QAM	25	12	19.41	19.31	19.19	
10	64QAM	25	25	19.36	19.24	19.13	
10	64QAM	50	0	19.18	19.26	19.17	20.3
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)
5	QPSK	1	0	22.00	22.11	22.06	23.3
5	QPSK	1	12	21.92	21.99	21.94	
5	QPSK	1	24	21.77	21.90	21.86	
5	QPSK	12	0	21.14	21.19	21.15	
5	QPSK	12	7	21.01	20.97	21.06	22.3
5	QPSK	12	13	20.89	20.86	21.03	
5	QPSK	25	0	20.82	20.78	20.87	
5	16QAM	1	0	20.97	21.02	20.98	
5	16QAM	1	12	20.95	20.89	21.05	22.3
5	16QAM	1	24	20.88	20.96	21.03	
5	16QAM	12	0	20.09	20.01	20.06	
5	16QAM	12	7	20.05	20.08	20.14	
5	16QAM	12	13	20.20	20.07	20.01	21.3
5	16QAM	25	0	20.25	20.05	20.10	
5	64QAM	1	0	19.99	20.17	20.24	
5	64QAM	1	12	20.14	20.14	20.18	
5	64QAM	1	24	20.11	20.25	20.30	21.3
5	64QAM	12	0	19.20	19.18	19.10	
5	64QAM	12	7	19.30	19.20	19.08	
5	64QAM	12	13	19.25	19.13	19.02	
5	64QAM	25	0	19.07	19.15	19.06	20.3
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)
3	QPSK	1	0	22.12	22.23	22.18	23.3
3	QPSK	1	8	22.04	22.11	22.06	
3	QPSK	1	14	21.89	22.02	21.98	
3	QPSK	8	0	21.26	21.22	21.31	
3	QPSK	8	4	21.13	21.09	21.18	22.3
3	QPSK	8	7	21.01	20.98	21.15	
3	QPSK	15	0	20.94	20.90	20.99	
3	16QAM	1	0	21.83	21.86	21.80	
3	16QAM	1	8	21.75	21.79	21.73	22.3
3	16QAM	1	14	21.60	21.66	21.61	
3	16QAM	8	0	20.23	20.29	20.38	

3	16QAM	8	4	20.12	20.21	20.31	21.3
3	16QAM	8	7	20.06	20.08	20.24	
3	16QAM	15	0	19.99	20.02	20.09	
3	64QAM	1	0	21.66	21.58	21.76	22.3
3	64QAM	1	8	21.53	21.51	21.63	
3	64QAM	1	14	21.46	21.43	21.55	
3	64QAM	8	0	20.26	20.23	20.20	21.3
3	64QAM	8	4	20.11	20.10	20.23	
3	64QAM	8	7	20.04	20.03	20.15	
3	64QAM	15	0	19.96	19.91	20.00	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.88	21.99	21.94	23.3
1.4	QPSK	1	3	21.80	21.87	21.82	
1.4	QPSK	1	5	21.65	21.78	21.74	
1.4	QPSK	3	0	21.02	21.07	21.03	
1.4	QPSK	3	1	20.89	20.85	20.94	
1.4	QPSK	3	3	20.77	20.74	20.91	
1.4	QPSK	6	0	20.70	20.66	20.75	22.3
1.4	16QAM	1	0	20.85	20.90	20.86	21.3
1.4	16QAM	1	3	20.83	20.77	20.93	
1.4	16QAM	1	5	20.76	20.84	20.91	
1.4	16QAM	3	0	19.97	19.89	19.94	
1.4	16QAM	3	1	19.93	19.96	20.02	
1.4	16QAM	3	3	20.08	19.95	19.89	
1.4	16QAM	6	0	20.13	19.93	19.98	21.3
1.4	64QAM	1	0	19.87	20.05	20.12	21.3
1.4	64QAM	1	3	20.02	20.02	20.06	
1.4	64QAM	1	5	19.99	20.13	20.18	
1.4	64QAM	3	0	19.08	19.06	19.08	
1.4	64QAM	3	1	19.18	19.08	18.96	
1.4	64QAM	3	3	19.13	19.01	18.90	
1.4	64QAM	6	0	18.95	19.03	18.94	20.3

LTE Band 2(Ant. 1 for Body ENDC)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	15.31	15.32	15.27	16
20	QPSK	1	49	14.90	14.87	14.92	
20	QPSK	1	99	14.82	14.78	14.75	
20	QPSK	50	0	14.29	14.35	14.33	
20	QPSK	50	24	13.97	13.98	14.01	15
20	QPSK	50	50	13.86	13.92	13.95	
20	QPSK	100	0	13.75	13.74	13.73	
20	16QAM	1	0	14.13	14.12	14.20	
20	16QAM	1	49	13.85	13.84	14.00	15
20	16QAM	1	99	13.79	13.76	13.74	
20	16QAM	50	0	12.68	12.65	12.65	
20	16QAM	50	24	12.64	12.66	12.62	
20	16QAM	50	50	12.62	12.57	12.56	14
20	16QAM	100	0	12.63	12.55	12.54	
20	64QAM	1	0	13.15	13.22	13.13	
20	64QAM	1	49	13.08	13.19	13.07	
20	64QAM	1	99	12.99	13.13	13.08	14
20	64QAM	50	0	12.13	12.23	12.13	
20	64QAM	50	24	12.28	12.02	12.00	
20	64QAM	50	50	12.20	12.14	12.07	
20	64QAM	100	0	12.17	12.16	12.10	13
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	14.90	15.01	14.94	16
15	QPSK	1	37	14.78	14.75	14.80	
15	QPSK	1	74	14.70	14.66	14.63	
15	QPSK	36	0	13.94	14.02	13.95	
15	QPSK	36	20	13.85	13.86	13.89	15
15	QPSK	36	39	13.74	13.80	13.83	
15	QPSK	75	0	13.63	13.62	13.61	
15	16QAM	1	0	14.01	14.00	14.08	
15	16QAM	1	37	13.73	13.72	13.88	15
15	16QAM	1	74	13.67	13.64	13.62	
15	16QAM	36	0	12.56	12.53	12.53	
15	16QAM	36	20	12.52	12.54	12.50	
15	16QAM	36	39	12.50	12.45	12.44	14
15	16QAM	75	0	12.51	12.43	12.42	
15	64QAM	1	0	13.03	13.10	13.01	
15	64QAM	1	37	12.96	13.07	12.95	
15	64QAM	1	74	12.87	13.01	12.96	14
15	64QAM	36	0	12.01	12.11	12.01	
15	64QAM	36	20	12.16	11.90	11.88	
15	64QAM	36	39	12.08	12.02	11.95	
15	64QAM	75	0	12.05	12.04	11.98	13
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	14.79	14.90	14.83	16
10	QPSK	1	25	14.67	14.64	14.69	
10	QPSK	1	49	14.59	14.55	14.52	
10	QPSK	25	0	13.83	13.91	13.84	
10	QPSK	25	12	13.74	13.75	13.78	15
10	QPSK	25	25	13.63	13.69	13.72	
10	QPSK	50	0	13.52	13.51	13.50	
10	16QAM	1	0	13.90	13.89	13.97	
10	16QAM	1	25	13.62	13.61	13.77	15
10	16QAM	1	49	13.56	13.53	13.51	
10	16QAM	25	0	12.45	12.42	12.42	
10	16QAM	25	12	12.41	12.43	12.39	
10	16QAM	25	25	12.39	12.34	12.33	14
10	16QAM	50	0	12.40	12.32	12.31	
10	64QAM	1	0	12.92	12.99	12.90	
10	64QAM	1	25	12.85	12.96	12.84	
10	64QAM	1	49	12.76	12.90	12.85	14
10	64QAM	25	0	11.90	12.00	11.90	
10	64QAM	25	12	12.05	11.79	11.77	
10	64QAM	25	25	11.97	11.91	11.84	
10	64QAM	50	0	11.94	11.93	11.87	13
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	14.67	14.78	14.71	16
5	QPSK	1	12	14.55	14.52	14.57	
5	QPSK	1	24	14.47	14.43	14.40	
5	QPSK	12	0	13.71	13.79	13.72	
5	QPSK	12	7	13.62	13.63	13.66	14.5
5	QPSK	12	13	13.51	13.57	13.60	
5	QPSK	25	0	13.40	13.39	13.38	
5	16QAM	1	0	13.78	13.77	13.85	
5	16QAM	1	12	13.50	13.49	13.65	14.5
5	16QAM	1	24	13.44	13.41	13.39	
5	16QAM	12	0	12.33	12.30	12.30	
5	16QAM	12	7	12.29	12.31	12.27	
5	16QAM	12	13	12.27	12.22	12.21	13.5
5	16QAM	25	0	12.28	12.20	12.19	
5	64QAM	1	0	12.80	12.87	12.78	
5	64QAM	1	12	12.73	12.84	12.72	
5	64QAM	1	24	12.64	12.78	12.73	13.5
5	64QAM	12	0	11.78	11.88	11.78	
5	64QAM	12	7	11.93	11.67	11.65	
5	64QAM	12	13	11.85	11.79	11.72	
5	64QAM	25	0	11.82	11.81	11.75	12.5
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	14.54	14.65	14.58	15.5
3	QPSK	1	8	14.42	14.39	14.44	
3	QPSK	1	14	14.34	14.30	14.27	
3	QPSK	8	0	13.58	13.66	13.59	
3	QPSK	8	4	13.49	13.50	13.53	14.5
3	QPSK	8	7	13.38	13.44	13.47	
3	QPSK	15	0	13.27	13.26	13.25	
3	16QAM	1	0	13.65	13.64	13.72	
3	16QAM	1	8	13.37	13.36	13.52	14.5
3	16QAM	1	14	13.31	13.28	13.26	
3	16QAM	8	0	12.20	12.17	12.17	

LTE Band 66(Ant. 0 for Body ENDC)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	18.92	19.03	18.98	20.3
20	QPSK	1	49	18.84	18.91	18.86	
20	QPSK	1	99	18.69	18.82	18.78	
20	QPSK	50	0	18.06	18.10	18.07	
20	QPSK	50	24	17.93	17.89	17.98	19.3
20	QPSK	50	50	17.81	17.78	17.95	
20	QPSK	100	0	17.74	17.70	17.79	
20	16QAM	1	0	17.89	17.94	17.90	
20	16QAM	1	49	17.87	17.81	17.97	19.3
20	16QAM	1	99	17.80	17.88	17.95	
20	16QAM	50	0	17.01	16.93	16.98	
20	16QAM	50	24	16.97	17.00	17.06	
20	16QAM	50	50	17.12	16.99	16.93	18.3
20	16QAM	100	0	17.17	16.97	17.02	
20	64QAM	1	0	16.91	17.09	17.16	
20	64QAM	1	49	17.06	17.06	17.10	
20	64QAM	1	99	17.03	17.17	17.22	18.3
20	64QAM	50	0	16.12	16.10	16.12	
20	64QAM	50	24	16.22	16.12	16.00	
20	64QAM	50	50	16.17	16.05	15.94	
20	64QAM	100	0	15.99	16.07	15.98	17.3
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.81	18.92	18.87	20.3
15	QPSK	1	37	18.73	18.80	18.75	
15	QPSK	1	74	18.58	18.71	18.67	
15	QPSK	36	0	17.95	18.00	17.96	
15	QPSK	36	20	17.82	17.78	17.87	19.3
15	QPSK	36	39	17.70	17.67	17.84	
15	QPSK	75	0	17.63	17.59	17.68	
15	16QAM	1	0	17.78	17.83	17.79	
15	16QAM	1	37	17.76	17.70	17.86	19.3
15	16QAM	1	74	17.69	17.77	17.84	
15	16QAM	36	0	16.90	16.82	16.87	
15	16QAM	36	20	16.86	16.89	16.95	
15	16QAM	36	39	17.01	16.88	16.82	18.3
15	16QAM	75	0	17.06	16.86	16.91	
15	64QAM	1	0	16.80	16.98	17.05	
15	64QAM	1	37	16.95	16.95	16.99	
15	64QAM	1	74	16.92	17.06	17.11	18.3
15	64QAM	36	0	16.01	15.99	16.01	
15	64QAM	36	20	16.11	16.01	15.89	
15	64QAM	36	39	16.06	15.94	15.83	
15	64QAM	75	0	15.88	15.96	15.87	17.3
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.69	18.80	18.75	20.3
10	QPSK	1	25	18.61	18.68	18.63	
10	QPSK	1	49	18.46	18.59	18.55	
10	QPSK	25	0	17.83	17.88	17.84	
10	QPSK	25	12	17.70	17.66	17.75	19.3
10	QPSK	25	25	17.58	17.55	17.72	
10	QPSK	50	0	17.51	17.47	17.56	
10	16QAM	1	0	17.66	17.71	17.67	
10	16QAM	1	25	17.64	17.58	17.74	18.3
10	16QAM	1	49	17.57	17.65	17.72	
10	16QAM	25	0	16.78	16.70	16.75	
10	16QAM	25	12	16.74	16.77	16.83	
10	16QAM	25	25	16.89	16.76	16.70	17.3
10	16QAM	50	0	16.94	16.74	16.79	
10	64QAM	1	0	16.68	16.86	16.93	
10	64QAM	1	25	16.83	16.83	16.87	
10	64QAM	1	49	16.80	16.94	16.99	18.3
10	64QAM	25	0	15.89	15.87	15.89	
10	64QAM	25	12	15.99	15.89	15.77	
10	64QAM	25	25	15.94	15.82	15.71	
10	64QAM	50	0	15.76	15.84	15.75	17.3
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.56	18.67	18.62	20.3
5	QPSK	1	12	18.48	18.55	18.50	
5	QPSK	1	24	18.33	18.46	18.42	
5	QPSK	12	0	17.70	17.75	17.71	
5	QPSK	12	7	17.57	17.53	17.62	19.3
5	QPSK	12	13	17.45	17.42	17.59	
5	QPSK	25	0	17.38	17.34	17.43	
5	16QAM	1	0	17.53	17.58	17.54	
5	16QAM	1	12	17.51	17.45	17.61	18.3
5	16QAM	1	24	17.44	17.52	17.59	
5	16QAM	12	0	16.65	16.57	16.62	
5	16QAM	12	7	16.61	16.64	16.70	
5	16QAM	12	13	16.76	16.63	16.57	17.3
5	16QAM	25	0	16.51	16.61	16.66	
5	64QAM	1	0	16.55	16.73	16.70	
5	64QAM	1	12	16.70	16.70	16.74	
5	64QAM	1	24	16.67	16.67	16.66	17.3
5	64QAM	12	0	15.76	15.74	15.76	
5	64QAM	12	7	15.86	15.76	15.64	
5	64QAM	12	13	15.81	15.69	15.58	
5	64QAM	25	0	15.63	15.71	15.62	16.3
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.43	18.54	18.49	19.3
3	QPSK	1	8	18.35	18.42	18.37	
3	QPSK	1	14	18.20	18.33	18.29	
3	QPSK	8	0	17.57	17.62	17.58	
3	QPSK	8	4	17.44	17.40	17.49	18.3
3	QPSK	8	7	17.32	17.29	17.46	
3	QPSK	15	0	17.25	17.21	17.30	
3	16QAM	1	0	17.40	17.45	17.41	
3	16QAM	1	8	17.38	17.32	17.48	18.3
3	16QAM	1	14	17.31	17.39	17.46	
3	16QAM	8	0	16.52	16.44	16.49	

3	16QAM	8	4	12.16	12.18	12.14	13.5
3	16QAM	8	7	12.14	12.09	12.08	
3	16QAM	15	0	12.15	12.07	12.06	
3	64QAM	1	0	12.67	12.74	12.65	13.5
3	64QAM	1	8	12.60	12.71	12.59	
3	64QAM	1	14	12.51	12.65	12.60	
3	64QAM	8	0	11.65	11.75	11.65	12.5
3	64QAM	8	4	11.80	11.54	11.52	
3	64QAM	8	7	11.72	11.66	11.59	
3	64QAM	15	0	11.69	11.68	11.62	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	14.42	14.53	14.46	15.5
1.4	QPSK	1	3	14.30	14.27	14.32	
1.4	QPSK	1	5	14.22	14.18	14.15	
1.4	QPSK	3	0	13.46	13.54	13.47	
1.4	QPSK	3	1	13.37	13.38	13.41	
1.4	QPSK	3	3	13.26	13.32	13.35	
1.4	QPSK	6	0	13.15	13.14	13.13	14
1.4	16QAM	1	0	13.53	13.52	13.60	14.5
1.4	16QAM	1	3	13.25	13.24	13.40	
1.4	16QAM	1	5	13.19	13.16	13.14	
1.4	16QAM	3	0	12.08	12.05	12.05	
1.4	16QAM	3	1	12.04	12.06	12.02	
1.4	16QAM	3	3	12.02	11.97	11.96	
1.4	16QAM	6	0	12.03	11.95	11.94	12.5
1.4	64QAM	1	0	12.55	12.62	12.53	
1.4	64QAM	1	3	12.48	12.59	12.47	
1.4	64QAM	1	5	12.39	12.53	12.48	113.5
1.4	64QAM	3	0	11.53	11.63	11.53	
1.4	64QAM	3	1	11.68	11.42	11.40	
1.4	64QAM	3	3	11.60	11.54	11.47	
1.4	64QAM	6	0	11.57	11.56	11.50	
1.4	64QAM	6	0	11.57	11.56	11.50	12.5

3	16QAM	8	4	16.48	16.51	16.57	17.3
3	16QAM	8	7	16.63	16.50	16.44	
3	16QAM	15	0	16.38	16.48	16.53	
3	64QAM	1	0	16.42	16.60	16.57	17.3
3	64QAM	1	8	16.57	16.57	16.61	
3	64QAM	1	14	16.54	16.54	16.53	
3	64QAM	8	0	15.63	15.61	15.63	16.3
3	64QAM	8	4	15.73	15.63	15.51	
3	64QAM	8	7	15.68	15.56	15.45	
3	64QAM	15	0	15.50	15.58	15.49	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.31	18.42	18.37	19.3
1.4	QPSK	1	3	18.23	18.30	18.25	
1.4	QPSK	1	5	18.08	18.21	18.17	
1.4	QPSK	3	0	17.45	17.50	17.46	
1.4	QPSK	3	1	17.32	17.28	17.37	
1.4	QPSK	3	3	17.20	17.17	17.34	
1.4	QPSK	6	0	17.13	17.09	17.18	18.3
1.4	16QAM	1	0	17.28	17.33	17.29	18.3
1.4	16QAM	1	3	17.26	17.20	17.36	
1.4	16QAM	1	5	17.19	17.27	17.34	
1.4	16QAM	3	0	16.40	16.32	16.37	
1.4	16QAM	3	1	16.36	16.39	16.45	
1.4	16QAM	3	3	16.51	16.38	16.32	
1.4	16QAM	6	0	16.26	16.36	16.41	17.3
1.4	64QAM	1	0	16.30	16.48	16.45	17.3
1.4	64QAM	1	3	16.45	16.45	16.49	
1.4	64QAM	1	5	16.42	16.42	16.41	
1.4	64QAM	3	0	15.51	15.49	15.51	
1.4	64QAM	3	1	15.61	15.51	15.39	
1.4	64QAM	3	3	15.56	15.44	15.33	
1.4	64QAM	6	0	15.38	15.46	15.37	16.3

5G NR n5(Ant.1 for Head ENDC)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	19.2
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.77	17.80	17.93	19.2
20		1	53	17.66	17.84	18.05	
20		1	104	17.62	17.74	17.98	
20		50	1	17.76	17.78	17.97	19.2
20		50	25	17.72	17.75	17.99	
20		50	50	17.71	17.76	17.93	
20		100	0	17.77	17.84	17.80	
20	DFT-s-OFDM QPSK	1	1	18.07	18.20	18.07	19.2
20		1	53	17.87	17.94	17.95	
20		1	104	17.79	17.81	17.83	
20		50	1	17.74	17.79	17.71	19.2
20		50	25	17.78	17.75	17.76	
20		50	50	17.72	17.76	18.05	
20		100	0	17.80	17.32	17.75	
20	DFT-s-OFDM	1	1	17.86	17.22	17.80	19.2
20	DFT-s-OFDM	1	1	16.44	15.47	16.39	18.2
20	DFT-s-OFDM	1	1	14.37	14.61	14.42	15.2
Channel				166300	167300	168300	18.2
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	17.09	17.13	17.10	18.2
Channel				165800	167300	168800	18.7
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM	1	1	17.45	17.36	17.28	18.7
Channel				165300	167300	169300	18.7
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	17.62	17.22	17.26	18.7
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	18.7
Frequency (MHz)				834	836.5	839	
20	CP-OFDM QPSK	1	1	17.66	17.55	16.85	18.7
20	CP-OFDM 16QAM	1	1	17.32	17.24	16.62	18.7
20	CP-OFDM 64QAM	1	1	15.32	15.42	15.37	16.7
20	CP-OFDM 256QAM	1	1	12.49	12.61	12.48	13.7

5G NR n7(Ant.1 for Head ENDC)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	14.2
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM PI/2 BPSK	1	1	13.05	12.90	12.82	14.2
20		1	53	13.04	12.94	12.85	
20		1	104	13.00	12.87	12.78	
20		50	1	12.77	12.51	12.41	13.7
20		50	25	13.03	13.01	12.88	
20		50	50	12.78	12.46	12.39	
20		100	0	12.72	12.49	12.37	
20	DFT-s-OFDM QPSK	1	1	13.50	13.76	13.57	14.2
20		1	53	12.92	12.79	12.92	
20		1	104	12.97	12.78	12.91	
20		50	1	12.27	12.65	11.93	13.7
20		50	25	12.61	12.57	12.58	
20		50	50	12.30	11.99	11.89	
20		100	0	12.26	11.98	11.94	
20	DFT-s-OFDM	1	1	12.32	12.09	11.95	13.7
20	DFT-s-OFDM	1	1	10.56	10.21	10.19	12.2
20	DFT-s-OFDM	1	1	8.69	8.51	8.26	9.7
Channel				501500	507000	512500	14.2
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	13.00	12.86	12.76	14.2
Channel				501000	507000	513000	14.2
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM	1	1	13.00	12.96	12.91	14.2
Channel				500500	507000	513500	14.2
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	12.93	12.95	12.94	14.2
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	13.7
Frequency (MHz)				2510	2535	1767.5	
20	CP-OFDM QPSK	1	1	11.73	11.45	11.29	13.7
20	CP-OFDM 16QAM	1	1	11.43	11.25	11.09	12.7
20	CP-OFDM 64QAM	1	1	9.41	9.18	9.01	10.7
20	CP-OFDM 256QAM	1	1	6.84	6.55	6.41	7.7

5G NR n41(Ant.1 for Head ENDC)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.72	12.78	12.49	12.85	12.78	14.2
100		1	136	12.54	12.80	12.73	12.71	12.86	
100		1	272	12.26	12.44	12.48	12.22	12.50	
100		135	1	12.47	12.38	12.42	12.42	12.52	14.2
100		135	67	12.83	12.85	12.88	12.88	12.86	
100		135	136	12.46	12.35	12.26	12.37	12.41	
100		270	0	12.38	12.30	12.38	12.36	12.32	
100	DFT-s-OFDM QPSK	1	1	12.75	12.96	13.08	12.91	12.85	14.2
100		1	136	12.58	12.89	12.50	12.80	12.90	
100		1	272	12.64	12.48	12.35	12.38	12.47	
100		135	1	12.50	12.85	12.86	12.47	12.62	14.2
100		135	67	12.80	12.83	12.82	12.84	12.84	
100		135	136	12.85	12.81	12.69	12.77	12.82	
100		270	0	11.91	12.00	11.88	11.80	11.81	
100	DFT-s-OFDM	1	1	11.43	11.84	11.97	11.89	11.72	13.2
100	DFT-s-OFDM	1	1	10.18	9.84	9.87	10.19	10.21	11.2
100	DFT-s-OFDM	1	1	7.96	8.81	7.96	8.50	8.35	10.2
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567	2593	2619	2645	
90	DFT-s-OFDM	1	1	12.18	12.27	12.38	12.17	12.44	14.2
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536	2564.5	2593	2621.5	2650	
80	DFT-s-OFDM	1	1	12.21	12.15	12.29	12.18	12.39	14.2
Channel				505200	511902	518598	525300	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.5	2593	2626.5	2660	
60	DFT-s-OFDM	1	1	12.40	12.55	12.52	12.62	12.62	14.2
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521	2557	2593	2629	2665	
50	DFT-s-OFDM	1	1	12.63	12.53	12.65	12.62	12.73	14.2
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516	2554.5	2593	2631.5	2670	
40	DFT-s-OFDM	1	1	12.64	12.59	12.68	12.71	12.68	14.2
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552	2593	2634	2675	
30	DFT-s-OFDM	1	1	12.74	12.46	12.49	12.56	12.78	14.2
Channel				501204	509898	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	DFT-s-OFDM	1	1	12.46	12.54	12.46	12.71	12.53	13.2
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	

Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	CP-OFDM QPSK	1	1	11.27	11.32	11.24	11.31	11.51	12.2
100	CP-OFDM 16QAM	1	1	10.83	10.85	10.86	11.27	11.09	12.2
100	CP-OFDM 64QAM	1	1	9.34	9.49	9.02	9.33	9.27	10.2
100	CP-OFDM 256QAM	1	1	6.19	6.24	6.27	6.23	6.36	7.2

WLAN for standalone SAR

2.4GHz WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	13.29	15.00	14.00	100.00
	CH 9	2437	13.49	15.00	14.00	
	CH 11	2462	12.53	14.00	14.00	
802.11g 1Mbps	CH 1	2412	12.03	14.00	13.00	100.00
	CH 6	2437	12.28	14.00	13.00	
	CH 11	2462	12.46	14.00	13.00	
802.11n-HT20 MCS0	CH 1	2412	11.74	13.00	13.00	100.00
	CH 6	2437	11.83	13.00	13.00	
	CH 11	2462	11.36	13.00	13.00	
802.11n-HT40 MCS0	CH 3	2422	11.43	13.00	12.00	100.00
	CH 6	2437	11.77	13.00	12.00	
	CH 9	2452	11.39	13.00	12.00	
802.11ac-VHT20 MCS0	CH 1	2412	11.77	13.00	13.00	100.00
	CH 6	2437	11.84	13.00	13.00	
	CH 11	2462	11.76	13.00	13.00	
802.11ac-VHT40 MCS0	CH 3	2422	11.69	13.00	12.00	100.00
	CH 6	2437	11.78	13.00	12.00	
	CH 9	2452	11.67	13.00	12.00	
802.11ax-HEW20 MCS0 (RU20)	CH 1	2412	11.23	13.00	13.00	100.00
	CH 6	2437	11.12	13.00	13.00	
	CH 11	2462	11.33	13.00	13.00	
802.11ax-HEW20 MCS0 (RU25)	CH 1	2412	0.20	2.00	1.00	100.00
	CH 6	2437	0.40	2.50	1.00	
	CH 11	2462	1.07	3.00	1.00	
802.11ax-HEW40 MCS0 (RU25)	CH 1	2412	2.92	4.50	4.00	100.00
	CH 6	2437	3.41	5.00	4.00	
	CH 11	2462	3.55	5.50	4.00	
802.11ax-HEW40 MCS0 (RU106)	CH 1	2412	5.78	7.50	7.00	100.00
	CH 6	2437	5.87	7.50	7.00	
	CH 11	2462	5.90	7.50	7.00	
802.11ax-HEW40 MCS0	CH 9	2452	11.56	13.00	12.00	100.00
	CH 6	2437	11.38	13.00	12.00	
	CH 9	2452	11.92	13.00	12.00	

5.2GHz WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	14.11	16.00	16.00	100.00
	CH 44	5220	14.18	16.00	16.00	
	CH 48	5240	14.17	16.00	16.00	
802.11n-HT20 MCS0	CH 36	5180	13.23	15.00	16.00	100.00
	CH 44	5220	13.41	15.00	16.00	
	CH 48	5240	13.12	15.00	16.00	
802.11n-HT40 MCS0	CH 36	5180	12.85	15.00	16.00	100.00
	CH 44	5220	13.09	15.00	16.00	
	CH 48	5240	12.59	15.00	16.00	
802.11ac-VHT20 MCS0	CH 36	5180	13.05	15.00	16.00	100.00
	CH 44	5220	13.93	15.00	16.00	
	CH 48	5240	13.13	15.00	16.00	
802.11ac-VHT40 MCS0	CH 36	5180	12.91	15.00	16.00	100.00
	CH 44	5220	13.95	15.00	16.00	
	CH 48	5240	13.11	15.00	16.00	
802.11ac-VHT80 MCS0	CH 42	5210	12.14	14.00	15.00	100.00
	CH 50	5250	10.90	12.00	13.00	
	CH 58	5380	13.50	15.00	16.00	
802.11ax-HEW20 MCS0 (RU242)	CH 44	5220	14.10	16.00	16.00	100.00
	CH 48	5240	13.11	15.00	16.00	
	CH 58	5380	2.22	4.00	4.00	
802.11ax-HEW20 MCS0 (RU26)	CH 44	5220	2.71	4.50	4.00	100.00
	CH 48	5240	3.11	5.00	4.00	
	CH 58	5380	4.88	6.50	7.00	
802.11ax-HEW20 MCS0 (RU52)	CH 44	5220	4.94	6.50	7.00	100.00
	CH 48	5240	4.83	6.50	7.00	
	CH 58	5380	7.75	9.50	10.00	
802.11ax-HEW40 MCS0 (RU106)	CH 44	5220	7.97	9.50	10.00	100.00
	CH 48	5240	7.81	9.50	10.00	
	CH 58	5380	12.53	14.00	16.00	
802.11ax-HEW40 MCS0	CH 46	5230	12.68	14.00	16.00	100.00
	CH 42	5210	12.05	14.00	15.00	
	CH 50	5250	10.93	12.00	13.00	

5.3GHz WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 52	5260	13.83	15.00	16.00	100.00
	CH 60	5300	14.10	16.00	16.00	
	CH 64	5320	14.10	16.00	16.00	
802.11n-HT20 MCS0	CH 60	5300	13.17	15.00	16.00	100.00
	CH 64	5320	13.22	15.00	16.00	
	CH 54	5270	13.14	15.00	16.00	
802.11n-HT40 MCS0	CH 52	5260	13.51	15.00	16.00	100.00
	CH 52	5260	12.50	14.00	16.00	
	CH 60	5300	12.92	14.50	16.00	
802.11ac-VHT20 MCS0	CH 64	5320	12.49	14.00	16.00	100.00
	CH 54	5270	13.83	15.00	16.00	
	CH 62	5310	13.97	15.00	16.00	
802.11ac-VHT40 MCS0	CH 58	5290	12.55	14.50	15.00	100.00
	CH 52	5260	13.17	15.00	16.00	
	CH 60	5300	13.26	16.00	16.00	
802.11ac-VHT80 MCS0 (RU242)	CH 64	5320	12.28	14.00	16.00	100.00
	CH 52	5260	2.07	4.00	4.00	
	CH 60	5300	2.12	4.00	4.00	
802.11ax-HEW20 MCS0 (RU26)	CH 64	5320	2.34	4.50	4.00	100.00
	CH 52	5260	4.88	6.50	7.00	
	CH 60	5300	4.80	6.50	7.00	
802.11ax-HEW20 MCS0 (RU52)	CH 64	5320	4.88	6.50	7.00	100.00
	CH 52	5260	7.74	9.50	10.00	
	CH 60	5300	7.12	9.50	10.00	
802.11ax-HEW40 MCS0 (RU106)	CH 64	5320	7.44	9.50	10.00	100.00
	CH 54	5270	12.70	14.50	16.00	
	CH 62	5310	12.75	14.50	16.00	
802.11ax-HEW40 MCS0	CH 58	5290	12.94	14.50	15.00	100.00
	CH 52	5260	12.94	14.50	15.00	
	CH 60	5300	12.94	14.50	15.00	

5.5GHz WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 100	5500	10.48	12.00	11.00	100.00
	CH 120	5600	10.57	12.00	11.00	
	CH 140	5700	10.40	12.00	11.00	
802.11n-HT20 MCS0	CH 100	5500	10.13	12.00	11.00	100.00
	CH 120	5600	10.19	12.00	11.00	
	CH 140	5700	9.88	11.00	11.00	
802.11n-HT40 MCS0	CH 100	5500	10.06	12.00	11.00	100.00
	CH 126	5630	10.44	12.00	11.00	
	CH 134	5670	10.40	12.00	11.00	
802.11ac-VHT20 MCS0	CH 100	5500	10.04	12.00	11.00	100.00
	CH 120	5600	10.51	12.00	11.00	
	CH 140	5700	10.34	12.00	11.00	
802.11ac-VHT40 MCS0	CH 100	5500	9.10	11.00	10.00	100.00
	CH 122	5610	9.24	11.00	10.00	
	CH 114	5570	10.40	12.00	11.00	
802.11ac-VHT80 MCS0	CH 100	5500	10.00	12.00	11.00	100.00
	CH 120	5600	10.27	12.00	11.00	
	CH 140	5700	9.81	11.00	11.00	
802.11ax-HEW20 MCS0 (RU242)	CH 100	5500	-2.01	-0.50	-1	100.00
	CH 120	5600	-1.90	-0.50	-1	
	CH 140	5700	-1.93	-0.50	-1	
802.11ax-HEW20 MCS0 (RU52)	CH 100	5500	2.00	4.00	2.00	100.00
	CH 120	5600	2.31	4.00	2.00	
	CH 140	5700	2.00	4.00	2.00	
802.11ax-HEW40 MCS0 (RU106)	CH 100	5500	4.89	6.50	5.00	100.00
	CH 120	5600	4.96	6.50	5.00	
	CH 140	5700	4.90	6.50	5.00	
802.11ax-HEW40 MCS0	CH 102	5510	10.34	12.00	11.00	100.00
	CH 126	5630	10.44	12.00	11.00	
	CH 134	5670	10.37	12.00	11.00	
802.11ax-HEW40 MCS0	CH 106	5530	8.39	10.00	10.00	100.00
	CH 122	5610	8.45	10.00	10.00	
	CH 114	5570	7.61	9.50	8.00	

2.4GHz WLAN ANT 7

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 7	802.11b 1Mbps	CH 1	2412	14.44	16.00	15.00	100.00
		CH 6	2437	14.63	16.00	15.00	
		CH 11	2462	14.48	16.00	15.00	
	802.11g 6Mbps	CH 1	2412	14.18	16.00	15.00	100.00
		CH 6	2437	13.94	15.00	15.00	
		CH 11	2462	14.02	16.00	15.00	
	802.11n-HT20 MCS0	CH 1	2412	13.87	15.00	15.00	100.00
		CH 6	2437	13.98	15.00	15.00	
		CH 11	2462	13.69	15.00	15.00	
	802.11n-HT40 MCS0	CH 3	2422	13.50	15.00	14.00	100.00
		CH 6	2437	13.23	15.00	14.00	
		CH 9	2452	13.27	15.00	14.00	
	802.11ac-VHT20 MCS0	CH 1	2412	13.07	15.00	14.00	100.00
		CH 6	2437	12.78	14.50	14.00	
		CH 11	2462	12.74	14.50	14.00	
	802.11ac-VHT40 MCS0	CH 3	2422	13.66	15.00	14.00	100.00
		CH 6	2437	13.43	15.00	14.00	
		CH 9	2452	13.48	15.00	14.00	
802.11n-HEW20 MCS0	CH 1	2412	13.23	15.00	14.00	100.00	
	CH 6	2437	13.11	15.00	14.00		
	CH 11	2462	13.00	15.00	14.00		
802.11n-HEW40 MCS0 (RU05)	CH 1	2412	2.29	4.00	3.00	100.00	
	CH 6	2437	2.40	4.00	3.00		
	CH 11	2462	2.47	4.75	4.50		
802.11n-HEW20 MCS0 (RU02)	CH 6	2437	5.38	7.00	6.00	100.00	
	CH 11	2462	5.57	7.00	6.00		
	CH 1	2412	8.02	10.00	9.00		
802.11n-HEW40 MCS0 (RU06)	CH 6	2437	7.95	9.00	9.00	100.00	
	CH 11	2462	8.47	10.00	9.00		
	CH 1	2412	10.87	15.00	14.00		
802.11n-HEW40 MCS0	CH 6	2437	12.90	14.50	14.00	100.00	
	CH 9	2452	12.88	14.50	14.00		

5.8GHz WLAN ANT 6

5.8GHz WLAN ANT 6	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	13.90	16.00	14.00	100.00
		CH 157	5785	14.02	16.50	14.00	
		CH 165	5825	13.78	16.00	14.00	
	802.11n-VHT20 MCS0	CH 149	5745	12.13	14.00	14.00	100.00
		CH 157	5785	12.31	14.00	14.00	
		CH 165	5825	12.06	14.00	14.00	
	802.11n-VHT40 MCS0	CH 151	5765	10.88	12.50	14.00	100.00
		CH 159	5785	10.97	12.50	14.00	
		CH 149	5745	12.32	14.00	14.00	
5.8GHz WLAN ANT 6	802.11ac-VHT20 MCS0	CH 157	5785	12.41	14.00	14.00	100.00
		CH 165	5825	12.50	14.00	14.00	
		CH 151	5765	12.01	14.00	14.00	
	802.11ac-VHT40 MCS0	CH 159	5785	12.71	14.50	14.00	100.00
		CH 155	5775	11.66	13.50	13.00	
		CH 149	5745	12.52	14.50	14.00	
	802.11ax-HEW20 MCS0 (RU042)	CH 157	5785	12.28	14.00	14.00	100.00
		CH 165	5825	12.15	14.00	14.00	
		CH 149	5745	1.97	3.50	2.50	
	802.11ax-HEW20 MCS0 (RU06)	CH 157	5785	2.07	4.00	2.00	100.00
		CH 165	5825	2.00	4.00	2.00	
		CH 149	5745	4.99	8.50	5.00	
5.8GHz WLAN ANT 6	802.11ax-HEW20 MCS0 (RU02)	CH 157	5785	4.52	6.50	5.00	100.00
		CH 165	5825	3.68	5.50	5.00	
		CH 149	5745	7.86	9.50	8.00	
	802.11ax-HEW20 MCS0 (RU106)	CH 157	5785	7.13	9.00	8.00	100.00
		CH 165	5825	7.27	9.00	8.00	
		CH 151	5765	13.12	15.00	14.00	
	802.11ax-HEW40 MCS0	CH 159	5785	13.60	15.50	14.00	100.00
		CH 155	5775	11.31	13.00	13.00	
	802.11ax-HEW80 MCS0	CH 155	5775	11.31	13.00	13.00	100.00

5.8GHz WLAN ANT 7

5.8GHz WLAN ANT 7	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	11.21	13.50	12	100.00
		CH 157	5785	11.36	13.50	12	
		CH 165	5825	11.27	13.50	12	
	802.11n-VHT20 MCS0	CH 149	5745	10.30	12.00	12	100.00
		CH 157	5785	10.17	12.00	12	
		CH 165	5825	10.27	12.00	12	
	802.11n-VHT40 MCS0	CH 151	5765	9.73	11.50	11.50	100.00
		CH 159	5785	9.64	11.50	11.50	
		CH 149	5745	10.87	12.50	12	
	802.11ac-VHT20 MCS0	CH 157	5785	10.21	12.00	12	100.00
		CH 165	5825	10.31	12.00	12	
		CH 151	5765	10.43	12.00	12.00	
5.8GHz WLAN ANT 7	802.11ac-VHT40 MCS0	CH 159	5785	10.48	12.00	12.00	100.00
		CH 155	5775	10.38	12.00	12.00	
		CH 149	5745	10.21	12.00	12.00	
	802.11ax-HEW20 MCS0 (RU042)	CH 157	5785	10.44	12.00	12.00	100.00
		CH 165	5825	10.78	12.50	12.00	
		CH 149	5745	-2.83	-1.50	-1.00	
	802.11ax-HEW20 MCS0 (RU06)	CH 157	5785	-2.17	-1.00	-1.00	100.00
		CH 165	5825	-2.36	-1.00	-1.00	
		CH 149	5745	1.86	3.50	2.00	
	802.11ax-HEW20 MCS0 (RU02)	CH 157	5785	2.44	4.00	2.00	100.00
		CH 165	5825	2.05	4.00	2.00	
		CH 149	5745	3.82	5.50	5.00	
5.8GHz WLAN ANT 7	802.11ax-HEW20 MCS0 (RU106)	CH 157	5785	2.88	5.50	5.00	100.00
		CH 165	5825	3.70	5.50	5.00	
		CH 151	5765	10.12	12.00	12.00	
	802.11ax-HEW40 MCS0	CH 159	5785	10.95	12.00	12.00	100.00
		CH 155	5775	10.61	12.50	12.00	
	802.11ax-HEW80 MCS0	CH 155	5775	10.61	12.50	12.00	100.00

5.8GHz WLAN ANT 6+7

5.8GHz WLAN ANT 6+7	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit
	802.11a MCS0	CH 149	5745	N/A	N/A
		CH 157	5785	N/A	N/A
		CH 165	5825	N/A	N/A
	802.11n-VHT20 MCS0	CH 149	5745	14.32	16.00
		CH 157	5785	14.38	16.00
		CH 165	5825	14.25	16.00
	802.11n-VHT40 MCS0	CH 151	5765	13.35	15.00
		CH 159	5785	13.37	15.00
		CH 149	5745	14.62	16.50
	802.11ac-VHT20 MCS0	CH 157	5785	14.48	16.00
		CH 165	5825	14.62	16.50
		CH 151	5765	14.30	16.00
5.8GHz WLAN ANT 6+7	802.11ac-VHT40 MCS0	CH 159	5785	14.75	16.50
		CH 155	5775	14.08	16.00
		CH 149	5745	14.53	16.50
	802.11ax-HEW20 MCS0 (RU042)	CH 157	5785	14.47	16.00
		CH 165	5825	14.52	16.50
		CH 149	5745	3.21	5.00
	802.11ax-HEW20 MCS0 (RU06)	CH 157	5785	3.46	5.00
		CH 165	5825	3.36	5.00
		CH 149	5745	6.71	8.50
	802.11ax-HEW20 MCS0 (RU02)	CH 157	5785	6.61	8.50
		CH 165	5825	5.95	7.50
		CH 149	5745	9.33	11.00
5.8GHz WLAN ANT 6+7	802.11ax-HEW20 MCS0 (RU106)	CH 157	5785	8.86	10.50
		CH 165	5825	8.82	10.50
		CH 151	5765	14.88	16.50
	802.11ac-HEW40 MCS0	CH 159	5785	15.28	17.00
		CH 155	5775	13.98	15.50
	802.11ax-HEW80 MCS0	CH 155	5775	13.98	15.50

WLAN for standalone simultaneous transmission SAR

2.4GHz WLAN ANT 6

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps		CH 1	2412	8.96	10.50	9.50	100.00
		CH 6	2437	9.16	11.00	8.50	
		CH 11	2462	8.20	10.00	9.50	
802.11g 6Mbps		CH 1	2412	7.70	9.00	8.50	100.00
		CH 6	2437	7.95	9.50	8.50	
		CH 11	2462	8.12	10.00	8.50	
802.11n-HT20 MCS0		CH 1	2412	7.41	9.00	8.50	100.00
		CH 6	2437	7.50	9.00	8.50	
		CH 11	2462	7.03	9.00	8.50	
802.11n-HT40 MCS0		CH 3	2422	7.10	9.00	7.50	100.00
		CH 6	2437	7.44	9.00	7.50	
		CH 9	2452	7.56	9.00	7.50	
802.11ac-VHT20 MCS0		CH 1	2412	7.44	9.00	8.50	100.00
		CH 6	2437	7.51	9.00	8.50	
		CH 11	2462	7.43	9.00	8.50	
802.11ac-VHT40 MCS0		CH 3	2422	7.36	9.00	7.50	100.00
		CH 6	2437	7.45	9.00	7.50	
		CH 9	2452	7.54	9.00	7.50	
802.11ac-HEW20 MCS0 (RU02)		CH 1	2412	6.90	8.00	8.50	100.00
		CH 6	2437	6.79	8.50	8.50	
		CH 11	2462	7.06	9.00	8.50	
802.11ac-HEW20 MCS0 (RU05)		CH 1	2412	-4.13	2.00	1.00	100.00
		CH 6	2437	-3.65	2.00	1.00	
		CH 11	2462	-3.25	2.00	1.00	
802.11ac-HEW20 MCS0 (RU06)		CH 1	2412	-1.41	2.00	-0.50	100.00
		CH 6	2437	-0.82	2.00	-0.50	
		CH 11	2462	-0.78	2.00	-0.50	
802.11ac-HEW20 MCS0 (RU10)		CH 1	2412	1.45	3.00	2.50	100.00
		CH 6	2437	1.49	3.00	2.50	
		CH 11	2462	1.57	3.00	2.50	
802.11ac-HEW40 MCS0		CH 3	2422	7.32	9.00	7.50	100.00
		CH 6	2437	7.05	9.00	7.50	
		CH 9	2452	7.50	9.50	7.50	

5.2GHz WLAN ANT 6

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps		CH 36	5180	9.23	11.00	16.00	100.00
		CH 44	5200	9.36	11.00	16.00	
		CH 48	5240	9.29	11.00	16.00	
802.11n-HT20 MCS0		CH 36	5180	8.35	10.00	16.00	100.00
		CH 44	5200	8.53	10.00	16.00	
		CH 48	5240	8.24	10.00	16.00	
802.11n-HT40 MCS0		CH 36	5180	8.67	10.50	16.00	100.00
		CH 44	5200	9.11	11.00	16.00	
		CH 36	5180	8.17	10.00	16.00	100.00
802.11ac-VHT20 MCS0		CH 44	5200	9.05	11.00	16.00	
		CH 48	5240	9.25	10.00	16.00	
		CH 36	5180	9.03	11.00	16.00	100.00
802.11ac-VHT40 MCS0		CH 48	5240	9.07	11.00	16.00	
		CH 42	5210	7.26	9.00	15.00	
802.11ac-VHT80 MCS0		CH 50	5250	9.12	7.00	13.00	100.00
		CH 36	5180	8.62	10.50	16.00	
		CH 44	5200	8.727	10.50	16.00	100.00
802.11ac-HEW20 MCS0 (RU042)		CH 48	5240	8.227	10.00	16.00	
		CH 36	5180	-2.683	2.00	4.00	
802.11ac-HEW20 MCS0 (RU05)		CH 44	5200	-2.173	2.00	4.00	100.00
		CH 48	5240	-1.773	2.00	4.00	
		CH 36	5180	-0.003	2.00	7.00	100.00
802.11ac-HEW20 MCS0 (RU06)		CH 44	5200	0.687	2.00	7.00	
		CH 48	5240	-0.053	2.00	7.00	
802.11ac-HEW20 MCS0 (RU10)		CH 36	5180	2.887	5.00	10.00	100.00
		CH 44	5200	3.087	5.00	10.00	
		CH 48	5240	2.927	6.00	10.00	100.00
802.11ac-HEW40 MCS0		CH 36	5180	7.647	9.00	16.00	
		CH 44	5200	7.797	9.00	16.00	
		CH 42	5210	7.17	9.00	15.00	100.00
802.11ac-HEW80 MCS0		CH 50	5250	9.15	7.00	13.00	
		CH 48	5240	8.227	10.00	16.00	

5.3GHz WLAN ANT 6

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps		CH 52	5260	8.35	10.50	10.50	100.00
		CH 60	5300	8.62	10.50	10.50	
		CH 64	5320	8.60	10.50	10.50	100.00
802.11n-HT20 MCS0		CH 52	5260	7.60	9.50	10.50	
		CH 60	5300	7.67	9.50	10.50	
		CH 64	5320	7.72	9.50	10.50	100.00
802.11n-HT40 MCS0		CH 54	5270	7.64	9.50	10.50	
		CH 62	5310	8.01	10.00	10.50	
802.11ac-VHT20 MCS0		CH 52	5260	7.80	9.00	10.50	100.00
		CH 60	5300	7.42	9.00	10.50	
		CH 64	5320	6.99	8.50	10.50	100.00
802.11ac-VHT40 MCS0		CH 54	5270	8.33	10.00	10.50	
		CH 62	5310	8.47	10.00	10.50	
802.11ac-VHT80 MCS0		CH 58	5280	7.05	9.00	9.50	100.00
		CH 52	5260	7.67	9.50	10.50	
		CH 60	5300	7.75	9.50	10.50	100.00
802.11ac-HEW20 MCS0 (RU042)		CH 64	5320	6.78	8.50	10.50	
		CH 52	5260	-3.43	-1.50	-1.50	
802.11ac-HEW20 MCS0 (RU05)		CH 60	5300	-3.38	-1.50	-1.50	100.00
		CH 64	5320	-3.16	-1.50	-1.50	
		CH 52	5260	-0.64	1.00	1.50	100.00
802.11ac-HEW20 MCS0 (RU06)		CH 60	5300	-0.58	1.00	1.50	
		CH 64	5320	-0.62	1.00	1.50	
802.11ac-HEW20 MCS0 (RU10)		CH 52	5260	2.24	4.00	4.50	100.00
		CH 60	5300	1.62	3.50	4.50	
		CH 64	5320	1.94	3.50	4.50	100.00
802.11ac-HEW40 MCS0		CH 54	5270	7.20	9.00	10.50	
		CH 62	5310	7.23	9.00	10.50	
		CH 58	5280	7.44	9.00	9.50	100.00
802.11ac-HEW80 MCS0		CH 58	5280	7.44	9.00	9.50	
		CH 52	5260	7.44	9.00	9.50	

5.5GHz WLAN ANT 6

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps		CH 100	5500	6.98	8.50	7.50	100.00
		CH 120	5600	7.07	9.00	7.50	
		CH 140	5700	5.90	8.00	7.50	
802.11n-HT20 MCS0		CH 100	5500	6.63	8.50	7.50	100.00
		CH 120	5600	6.69	8.50	7.50	
		CH 140	5700	6.36	8.00	7.50	
802.11n-HT40 MCS0		CH 100	5500	6.96	9.00	7.50	100.00
		CH 120	5600	6.94	8.50	7.50	
		CH 126	5630	6.94	8.50	7.50	
802.11ac-VHT20 MCS0		CH 134	5670	6.90	8.50	7.50	100.00
		CH 100	5500	6.54	8.50	7.50	
		CH 120	5600	7.01	9.00	7.50	
802.11ac-VHT40 MCS0		CH 140	5700	6.84	8.50	7.50	100.00
		CH 102	5510	6.82	8.50	7.50	
		CH 126	5630	7.01	9.00	7.50	
802.11ac-VHT80 MCS0		CH 134	5670	6.98	8.50	7.50	100.00
		CH 106	5530	5.60	7.50	6.50	
		CH 122	5610	5.74	7.50	6.50	
802.11ac-VHT160 MCS0		CH 114	5570	6.90	8.50	4.50	100.00
		CH 100	5500	6.50	8.50	7.50	
		CH 120	5600	6.77	8.50	7.50	
802.11ac-HEW20 MCS0 (RU042)		CH 140	5700	6.66	8.50	7.50	100.00
		CH 100	5500	5.51	4.00	4.5	
		CH 120	5600	5.40	4.00	4.5	
802.11ac-HEW20 MCS0 (RU05)		CH 140	5700	5.43	4.00	4.5	100.00
		CH 100	5500	1.41	0.50	1.50	
		CH 120	5600	1.19	0.50	1.50	
802.11ac-HEW20 MCS0 (RU07)		CH 140	5700	1.50	0.50	1.50	100.00
		CH 100	5500	1.39	3.00	1.50	
		CH 120	5600	1.46	3.00	1.50	
802.11ac-HEW40 MCS0		CH 140	5700	1.40	3.00	1.50	100.00
		CH 102	5510	6.84	8.50	7.50	
		CH 126	5630	6.94	8.50	7.50	
802.11ac-HEW80 MCS0		CH 134	5670	6.87	8.50	7.50	100.00
		CH 106	5530	4.89	6.50	6.50	
		CH 122	5610	4.96	6.50	6.50	
802.11ac-HEW160 MCS0		CH 114	5570	4.11	4.00	4.50	100.00

5.8GHz WLAN ANT 6

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	8.90	10.50	9.00	100.00
		CH 157	5785	9.02	11.00	9.00	
		CH 165	5825	8.78	10.50	9.00	
	802.11n-HT20 MCS0	CH 149	5745	7.13	9.00	9.00	100.00
		CH 157	5785	7.31	9.00	9.00	
		CH 165	5825	7.26	9.00	9.00	
	802.11n-HT40 MCS0	CH 151	5755	5.88	7.50	9.00	100.00
		CH 159	5795	5.97	7.50	9.00	
		CH 149	5745	7.32	9.00	9.00	
	802.11ac-VHT20 MCS0	CH 157	5785	7.41	9.00	9.00	100.00
		CH 165	5825	7.50	9.50	9.00	
		CH 151	5755	7.01	9.00	9.00	
	802.11ac-VHT40 MCS0	CH 159	5795	7.71	9.50	9.00	100.00
		CH 155	5775	6.66	8.50	8.00	
		CH 149	5745	7.52	9.50	9.00	
	802.11ax-HEW00 MCS0 (RU042)	CH 157	5785	7.28	9.00	9.00	100.00
		CH 165	5825	7.15	9.00	9.00	
		CH 149	5745	-3.03	-1.50	-3.00	
	802.11ax-HEW00 MCS0 (RU06)	CH 157	5785	-2.93	-1.00	-3.00	100.00
		CH 165	5825	-3.00	-1.00	-3.00	
		CH 149	5745	-0.51	1.50	0.00	
	802.11ax-HEW00 MCS0 (RU02)	CH 157	5785	-0.48	1.50	0.00	100.00
		CH 165	5825	-1.32	0.50	0.00	
		CH 149	5745	2.86	4.50	3.00	
	802.11ax-HEW00 MCS0 (RU106)	CH 157	5785	2.13	4.00	3.00	100.00
		CH 165	5825	2.22	4.00	3.00	
		CH 151	5755	8.12	10.00	9.00	
	802.11ax-HEW40 MCS0	CH 159	5795	8.60	10.50	9.00	100.00
		CH 155	5775	6.31	8.00	8.00	

5.8GHz WLAN ANT 7

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	9.21	11.00	10	100.00
		CH 157	5785	9.36	11.00	10	
		CH 165	5825	9.27	11.00	10	
	802.11n-HT20 MCS0	CH 149	5745	8.30	10.00	10	100.00
		CH 157	5785	8.17	10.00	10	
		CH 165	5825	8.27	10.00	10	
	802.11n-HT40 MCS0	CH 151	5755	7.73	9.50	9.50	100.00
		CH 159	5795	7.64	9.50	9.50	
		CH 149	5745	8.87	10.50	10	
	802.11ac-VHT20 MCS0	CH 157	5785	8.23	10.00	10	100.00
		CH 165	5825	8.31	10.00	10	
		CH 151	5755	8.43	10.00	10.00	
	802.11ac-VHT40 MCS0	CH 159	5795	8.48	10.00	10.00	100.00
		CH 155	5775	8.38	10.00	10.00	
		CH 149	5745	8.23	10.00	10.00	
	802.11ax-HEW00 MCS0 (RU042)	CH 157	5785	6.44	10.00	10.00	100.00
		CH 165	5825	6.78	10.50	10.00	
		CH 149	5745	-4.83	-3.50	-3.00	
	802.11ax-HEW00 MCS0 (RU06)	CH 157	5785	-4.17	-3.00	-3.00	100.00
		CH 165	5825	-4.26	-3.00	-3.00	
		CH 149	5745	-0.34	1.50	0.00	
	802.11ax-HEW00 MCS0 (RU02)	CH 157	5785	0.44	2.00	0.00	100.00
		CH 165	5825	0.05	2.00	0.00	
		CH 149	5745	1.92	3.50	3.00	
	802.11ax-HEW00 MCS0 (RU106)	CH 157	5785	1.98	3.50	3.00	100.00
		CH 165	5825	1.79	3.50	3.00	
		CH 151	5755	8.12	10.00	10.00	
	802.11ax-HEW40 MCS0	CH 159	5795	8.35	10.00	10.00	100.00
		CH 155	5775	8.61	10.50	10.00	

5.8GHz WLAN ANT 6+7

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit
	802.11a MCS0	CH 149	5745	N/A	N/A
		CH 157	5785	N/A	N/A
		CH 165	5825	N/A	N/A
	802.11n-HT20 MCS0	CH 149	5745	10.79	12.50
		CH 157	5785	10.79	12.50
		CH 165	5825	10.79	12.50
	802.11n-HT40 MCS0	CH 151	5755	10.00	12.00
		CH 159	5795	10.00	12.00
		CH 149	5745	11.14	13.00
	802.11ac-VHT20 MCS0	CH 157	5785	10.79	12.50
		CH 165	5825	10.79	12.50
		CH 151	5755	10.79	12.50
	802.11ac-VHT40 MCS0	CH 159	5795	11.14	13.00
		CH 155	5775	10.79	12.50
		CH 149	5745	10.79	12.50
	802.11ax-HEW00 MCS0 (RU042)	CH 157	5785	10.79	12.50
		CH 165	5825	11.14	13.00
		CH 149	5745	9.00	2.00
	802.11ax-HEW00 MCS0 (RU06)	CH 157	5785	8.00	2.00
		CH 165	5825	0.00	2.00
		CH 149	5745	3.01	5.00
	802.11ax-HEW00 MCS0 (RU02)	CH 157	5785	3.01	5.00
		CH 165	5825	3.01	5.00
		CH 149	5745	4.77	6.50
	802.11ax-HEW00 MCS0 (RU106)	CH 157	5785	4.77	6.50
		CH 165	5825	4.77	6.50
		CH 151	5755	11.14	13.00
	802.11ax-HEW40 MCS0	CH 159	5795	11.46	13.00
		CH 155	5775	10.79	12.50

CA Reduction Power for Head											
CA_7C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	14.85	16.2
21100	21001	21199	QPSK	1	0	0	0	1	0	15.24	16.2
21350	21152	21350	QPSK	1	0	0	0	1	0	15.32	16.2
CA_38C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	20.29	21.5
38000	37901	38099	QPSK	1	0	0	0	1	0	20.25	21.5
38150	37952	38150	QPSK	1	0	0	0	1	0	20.31	21.5
CA_41C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	20.63	22
40620	40521	40719	QPSK	1	0	0	0	1	0	20.83	22
41490	41292	41490	QPSK	1	0	0	0	1	0	20.62	22

CA Reduction Power for Body											
CA_7C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	19.85	21.2
21100	21001	21199	QPSK	1	0	0	0	1	0	20.24	21.2
21350	21152	21350	QPSK	1	0	0	0	1	0	20.32	21.2