



Appendix F. Output Power Measurement

GSM850_Ant 1_State 0/1/2/3

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.33	32.12	32.30	34.00	23.33	23.12	23.30	25.00
GPRS 1 Tx slot	32.29	32.15	32.29	34.00	23.29	23.15	23.29	25.00
GPRS 2 Tx slots	32.00	32.14	32.07	34.00	26.00	26.14	26.07	28.00
EDGE 1 Tx slot	26.12	26.00	26.03	28.00	17.12	17.00	17.03	19.00
EDGE 2 Tx slots	26.07	26.05	26.00	28.00	20.07	20.05	20.00	22.00

GSM850_Ant 3_State 0/1/3

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.11	32.19	32.10	34.00	23.11	23.19	23.10	25.00
GPRS 1 Tx slot	32.16	32.17	32.06	34.00	23.21	23.20	23.06	25.00
GPRS 2 Tx slots	31.88	31.89	31.81	33.00	25.88	25.89	25.81	27.00
EDGE 1 Tx slot	26.21	26.31	26.24	28.00	17.21	17.31	17.24	19.00
EDGE 2 Tx slots	26.19	26.28	26.16	28.00	20.19	20.28	20.16	22.00

GSM850_Ant 3_State 2

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.11	32.19	32.10	33.50	23.11	23.19	23.10	24.50
GPRS 1 Tx slot	32.21	32.20	32.06	33.50	23.21	23.20	23.06	24.50
GPRS 2 Tx slots	31.88	31.89	31.81	32.50	25.88	25.89	25.81	26.50
EDGE 1 Tx slot	26.21	26.31	26.24	27.50	17.21	17.31	17.24	18.50
EDGE 2 Tx slots	26.19	26.28	26.16	27.50	20.19	20.28	20.16	21.50



GSM1900_Ant 2_State 0/1/2/3

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.18	29.30	29.20	31.00	20.18	20.30	20.20	22.00
GPRS 1 Tx slot	29.25	29.28	29.22	31.00	20.25	20.35	20.22	22.00
GPRS 2 Tx slots	29.15	29.20	29.13	31.00	23.15	23.20	23.13	25.00
EDGE 1 Tx slot	25.10	25.08	25.05	27.00	16.10	16.08	16.05	18.00
EDGE 2 Tx slots	25.00	25.06	25.11	27.00	19.00	19.06	19.11	21.00

GSM1900_Ant 4_State 0/1/3

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.38	29.43	29.40	31.00	20.38	20.43	20.40	22.00
GPRS 1 Tx slot	29.39	29.42	29.06	31.00	20.39	20.43	20.06	22.00
GPRS 2 Tx slots	29.31	29.34	28.96	30.50	23.31	23.34	22.96	24.50
EDGE 1 Tx slot	25.37	25.44	25.46	27.00	16.37	16.44	16.46	18.00
EDGE 2 Tx slots	25.25	25.22	25.20	27.00	19.25	19.22	19.20	21.00

GSM1900_Ant 4_State 2

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.45	27.40	27.42	29.00	18.45	18.40	18.42	20.00
GPRS 1 Tx slot	27.91	28.38	27.88	29.00	18.91	19.38	18.88	20.00
GPRS 2 Tx slots	27.96	28.33	27.94	28.50	21.96	22.33	21.94	22.50
EDGE 1 Tx slot	23.56	23.49	23.58	25.00	14.56	14.49	14.58	16.00
EDGE 2 Tx slots	23.34	23.37	23.32	25.00	17.34	17.37	17.32	19.00



UMTS B2_Ant 2_State 0/1/2/3

Band		WCDMA II			Tune-up Limit (dBm)
TX Channel		9262	9400	9538	
Rx Channel		9662	9800	9938	
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	AMR 12.2Kbps	23.77	23.85	23.80	25.00
3GPP Rel 99	RMC 12.2Kbps	23.80	23.88	23.82	25.00
3GPP Rel 6	HSDPA Subtest-1	22.67	22.75	22.70	24.00
3GPP Rel 6	HSDPA Subtest-2	22.64	22.70	22.83	24.00
3GPP Rel 6	HSDPA Subtest-3	22.14	22.26	22.31	23.50
3GPP Rel 6	HSDPA Subtest-4	22.26	22.25	22.12	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.60	22.65	22.63	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.44	22.58	22.81	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.95	22.24	22.24	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.11	22.24	22.04	23.50
3GPP Rel 6	HSUPA Subtest-1	22.55	22.54	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2	20.48	20.70	20.43	22.00
3GPP Rel 6	HSUPA Subtest-3	21.55	21.57	21.38	23.00
3GPP Rel 6	HSUPA Subtest-4	20.52	20.63	20.51	22.00
3GPP Rel 6	HSUPA Subtest-5	22.50	22.60	22.70	24.00

UMTS B2_Ant 4_State 0/1/3

Band		WCDMA II			Tune-up Limit (dBm)
TX Channel		9262	9400	9538	
Rx Channel		9662	9800	9938	
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	AMR 12.2Kbps	23.22	23.35	23.27	24.00
3GPP Rel 99	RMC 12.2Kbps	23.25	23.38	23.29	24.00
3GPP Rel 6	HSDPA Subtest-1	22.11	22.11	22.19	23.00
3GPP Rel 6	HSDPA Subtest-2	22.02	22.23	22.19	23.00
3GPP Rel 6	HSDPA Subtest-3	21.54	21.78	21.68	22.50
3GPP Rel 6	HSDPA Subtest-4	21.70	21.71	21.63	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.04	22.16	22.15	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.86	22.07	22.25	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.42	21.74	21.69	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.47	21.72	21.42	22.50
3GPP Rel 6	HSUPA Subtest-1	22.06	22.02	22.12	23.00
3GPP Rel 6	HSUPA Subtest-2	19.85	20.04	19.83	21.00
3GPP Rel 6	HSUPA Subtest-3	20.96	21.05	20.88	22.00
3GPP Rel 6	HSUPA Subtest-4	19.86	20.07	20.01	21.00
3GPP Rel 6	HSUPA Subtest-5	21.80	22.00	22.20	23.00



UMTS B2_Ant 4_State 2

Band		WCDMA II			Tune-up Limit (dBm)
TX Channel		9262	9400	9538	
Rx Channel		9662	9800	9938	
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	AMR 12.2Kbps	21.25	21.38	21.30	21.50
3GPP Rel 99	RMC 12.2Kbps	21.28	21.41	21.32	21.50
3GPP Rel 6	HSDPA Subtest-1	19.94	20.14	19.98	21.50
3GPP Rel 6	HSDPA Subtest-2	19.99	20.26	20.03	21.50
3GPP Rel 6	HSDPA Subtest-3	19.67	19.81	19.71	21.00
3GPP Rel 6	HSDPA Subtest-4	19.47	19.74	19.51	21.00
3GPP Rel 8	DC-HSDPA Subtest-1	19.97	20.19	20.01	20.50
3GPP Rel 8	DC-HSDPA Subtest-2	19.84	20.10	19.88	20.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.59	19.77	19.63	20.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.43	19.75	19.47	20.00
3GPP Rel 6	HSUPA Subtest-1	19.82	20.05	19.86	20.50
3GPP Rel 6	HSUPA Subtest-2	17.90	18.07	17.94	18.50
3GPP Rel 6	HSUPA Subtest-3	18.90	19.08	18.94	19.50
3GPP Rel 6	HSUPA Subtest-4	17.89	18.10	17.93	18.50
3GPP Rel 6	HSUPA Subtest-5	19.89	20.03	19.93	20.50

UMTS B4_Ant 2_State 0/1/2/3

Band		WCDMA IV			Tune-up Limit (dBm)
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.68	23.73	23.62	25.00
3GPP Rel 99	RMC 12.2Kbps	23.70	23.75	23.65	25.00
3GPP Rel 6	HSDPA Subtest-1	22.48	22.52	22.52	24.00
3GPP Rel 6	HSDPA Subtest-2	22.42	22.57	22.57	24.00
3GPP Rel 6	HSDPA Subtest-3	21.93	22.10	22.12	23.50
3GPP Rel 6	HSDPA Subtest-4	21.97	22.07	21.86	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.28	22.52	22.48	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.30	22.40	22.60	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.78	22.03	21.99	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.81	22.05	21.81	23.50
3GPP Rel 6	HSUPA Subtest-1	22.39	22.28	22.42	24.00
3GPP Rel 6	HSUPA Subtest-2	20.16	20.41	20.14	22.00
3GPP Rel 6	HSUPA Subtest-3	21.31	21.36	21.11	23.00
3GPP Rel 6	HSUPA Subtest-4	20.34	20.45	20.32	22.00
3GPP Rel 6	HSUPA Subtest-5	22.20	22.40	22.50	24.00



UMTS B4_Ant 4_State 0/3

Band		WCDMA IV			Tune-up Limit (dBm)
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.23	23.27	23.25	25.00
3GPP Rel 99	RMC 12.2Kbps	23.25	23.30	23.27	25.00
3GPP Rel 6	HSDPA Subtest-1	22.09	22.27	22.22	24.00
3GPP Rel 6	HSDPA Subtest-2	22.15	22.17	22.29	24.00
3GPP Rel 6	HSDPA Subtest-3	21.51	21.69	21.73	23.50
3GPP Rel 6	HSDPA Subtest-4	21.74	21.77	21.55	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.10	22.00	22.12	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.02	22.03	22.15	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.50	21.71	21.74	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.59	21.74	21.57	23.50
3GPP Rel 6	HSUPA Subtest-1	22.00	22.05	22.02	24.00
3GPP Rel 6	HSUPA Subtest-2	20.06	20.18	20.05	22.00
3GPP Rel 6	HSUPA Subtest-3	21.03	21.02	21.05	23.00
3GPP Rel 6	HSUPA Subtest-4	20.03	20.02	20.04	22.00
3GPP Rel 6	HSUPA Subtest-5	22.00	22.10	22.20	24.00

UMTS B4_Ant 4_State 1

Band		WCDMA IV			Tune-up Limit (dBm)
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.23	23.27	23.25	24.50
3GPP Rel 99	RMC 12.2Kbps	23.25	23.30	23.27	24.50
3GPP Rel 6	HSDPA Subtest-1	22.09	22.27	22.22	23.50
3GPP Rel 6	HSDPA Subtest-2	22.15	22.17	22.29	23.50
3GPP Rel 6	HSDPA Subtest-3	21.51	21.69	21.73	23.00
3GPP Rel 6	HSDPA Subtest-4	21.74	21.77	21.55	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.10	22.00	22.12	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.02	22.03	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.50	21.71	21.74	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.59	21.74	21.57	23.00
3GPP Rel 6	HSUPA Subtest-1	22.00	22.05	22.02	23.50
3GPP Rel 6	HSUPA Subtest-2	20.06	20.18	20.05	21.50
3GPP Rel 6	HSUPA Subtest-3	21.03	21.02	21.05	22.50
3GPP Rel 6	HSUPA Subtest-4	20.03	20.02	20.04	21.50
3GPP Rel 6	HSUPA Subtest-5	22.00	22.10	22.20	23.50



UMTS B4_Ant 4_State 2

Band		WCDMA IV			Tune-up Limit (dBm)
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	20.23	20.27	20.25	20.50
3GPP Rel 99	RMC 12.2Kbps	20.25	20.30	20.27	20.50
3GPP Rel 6	HSDPA Subtest-1	19.20	19.27	19.22	19.50
3GPP Rel 6	HSDPA Subtest-2	19.09	19.17	19.11	19.50
3GPP Rel 6	HSDPA Subtest-3	18.50	18.69	18.52	19.00
3GPP Rel 6	HSDPA Subtest-4	18.68	18.77	18.70	19.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.82	19.00	18.84	19.50
3GPP Rel 8	DC-HSDPA Subtest-2	18.93	19.03	18.95	19.50
3GPP Rel 8	DC-HSDPA Subtest-3	18.55	18.71	18.57	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	18.59	18.74	18.61	19.00
3GPP Rel 6	HSUPA Subtest-1	18.91	19.05	18.93	19.50
3GPP Rel 6	HSUPA Subtest-2	17.01	17.18	17.03	17.50
3GPP Rel 6	HSUPA Subtest-3	17.89	18.02	17.91	18.50
3GPP Rel 6	HSUPA Subtest-4	16.97	17.02	16.99	17.50
3GPP Rel 6	HSUPA Subtest-5	19.01	19.10	19.03	19.50

UMTS B5_Ant 1_State 0/1/2/3

Band		WCDMA 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	AMR 12.2Kbps	23.70	23.75	23.73	25.00
3GPP Rel 99	RMC 12.2Kbps	23.72	23.77	23.76	25.00
3GPP Rel 6	HSDPA Subtest-1	22.28	22.46	22.75	24.00
3GPP Rel 6	HSDPA Subtest-2	22.20	22.48	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3	21.67	21.82	22.22	23.50
3GPP Rel 6	HSDPA Subtest-4	21.74	21.96	22.21	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.11	22.28	22.54	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.02	22.28	22.62	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.56	21.79	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.66	21.80	22.03	23.50
3GPP Rel 6	HSUPA Subtest-1	22.21	22.51	22.68	24.00
3GPP Rel 6	HSUPA Subtest-2	20.30	20.50	20.86	22.00
3GPP Rel 6	HSUPA Subtest-3	21.34	21.47	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4	20.32	20.51	20.71	22.00
3GPP Rel 6	HSUPA Subtest-5	22.20	22.40	22.70	24.00



UMTS B5_Ant 3_State 0/1/2/3

Band		WCDMA 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	AMR 12.2Kbps	22.52	22.60	22.54	24.00
3GPP Rel 99	RMC 12.2Kbps	22.55	22.63	22.56	24.00
3GPP Rel 6	HSDPA Subtest-1	21.59	21.65	21.89	23.50
3GPP Rel 6	HSDPA Subtest-2	21.59	21.63	21.83	23.50
3GPP Rel 6	HSDPA Subtest-3	21.04	21.02	21.32	23.00
3GPP Rel 6	HSDPA Subtest-4	21.14	21.08	21.37	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.62	21.62	21.65	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.59	21.67	21.72	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.11	21.16	21.28	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.01	21.10	21.19	22.50
3GPP Rel 6	HSUPA Subtest-1	21.60	21.67	21.79	23.00
3GPP Rel 6	HSUPA Subtest-2	19.67	19.62	20.04	21.00
3GPP Rel 6	HSUPA Subtest-3	20.52	20.59	20.74	22.00
3GPP Rel 6	HSUPA Subtest-4	19.68	19.61	19.87	21.00
3GPP Rel 6	HSUPA Subtest-5	21.50	21.50	21.70	23.00



FDD LTE Band 2_Ant 2_State 0/1/2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.85	23.07	22.89	24.5
20	QPSK	1	49	22.88	23.13	22.98	
20	QPSK	1	99	22.85	22.90	22.84	
20	QPSK	50	0	21.95	22.07	22.00	23.5
20	QPSK	50	24	22.00	22.02	22.03	
20	QPSK	50	50	21.92	22.02	22.00	
20	QPSK	100	0	21.95	22.07	22.01	23.5
20	16QAM	1	0	22.21	22.39	22.19	
20	16QAM	1	49	22.62	22.47	22.23	
20	16QAM	1	99	22.23	22.41	22.16	22.5
20	16QAM	50	0	20.91	21.00	21.07	
20	16QAM	50	24	21.00	21.00	21.06	
20	16QAM	50	50	20.95	21.03	20.99	22.5
20	16QAM	100	0	20.97	21.04	21.11	
20	64QAM	1	0	21.17	21.28	21.21	
20	64QAM	1	49	21.22	21.22	21.14	22.5
20	64QAM	1	99	20.96	21.08	21.09	
20	64QAM	50	0	19.85	20.04	20.10	
20	64QAM	50	24	19.94	20.06	20.05	21.5
20	64QAM	50	50	19.94	20.03	20.02	
20	64QAM	100	0	19.98	20.03	20.01	
20	256QAM	1	0	18.07	17.89	18.25	19.5
20	256QAM	1	49	18.00	18.09	18.18	
20	256QAM	1	99	18.15	17.94	18.23	
20	256QAM	50	0	18.21	17.96	18.20	19.5
20	256QAM	50	24	18.28	18.27	18.31	
20	256QAM	50	50	18.39	18.18	18.28	
20	256QAM	100	0	18.16	18.03	18.28	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	22.88	22.97	22.80	24.5
15	QPSK	1	37	22.95	22.91	22.95	
15	QPSK	1	74	22.69	22.90	22.65	
15	QPSK	36	0	21.84	21.86	21.97	23.5
15	QPSK	36	20	21.93	21.97	21.76	
15	QPSK	36	39	21.83	21.87	21.83	
15	QPSK	75	0	21.78	22.04	21.96	23.5
15	16QAM	1	0	22.23	22.40	22.02	
15	16QAM	1	37	22.52	22.37	22.10	
15	16QAM	1	74	22.21	22.37	22.10	22.5
15	16QAM	36	0	20.90	20.89	20.82	
15	16QAM	36	20	20.96	20.82	20.96	
15	16QAM	36	39	20.72	21.04	20.93	22.5
15	16QAM	75	0	20.89	20.84	20.93	
15	64QAM	1	0	21.13	21.16	21.12	
15	64QAM	1	37	21.21	21.17	21.14	22.5
15	64QAM	1	74	20.86	21.01	21.07	
15	64QAM	36	0	19.80	19.92	19.85	
15	64QAM	36	20	19.99	19.99	19.94	21.5
15	64QAM	36	39	19.83	19.93	19.92	
15	64QAM	75	0	19.85	19.87	20.02	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	1	0	18.09	17.76	18.17	19.5
15	256QAM	1	37	17.82	17.91	18.09	
15	256QAM	1	74	17.95	17.84	18.19	
15	256QAM	36	0	17.95	17.87	18.04	19.5
15	256QAM	36	20	18.23	18.06	18.22	
15	256QAM	36	39	18.43	17.89	18.26	
15	256QAM	75	0	18.13	18.05	18.23	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.71	22.90	22.79	24.5
10	QPSK	1	25	22.84	23.07	22.80	
10	QPSK	1	49	22.66	22.89	22.77	
10	QPSK	25	0	21.77	21.96	21.98	23.5
10	QPSK	25	12	21.75	21.93	22.02	
10	QPSK	25	25	21.83	21.98	21.87	
10	QPSK	50	0	21.96	21.81	21.81	
10	16QAM	1	0	22.16	22.22	22.08	23.5
10	16QAM	1	25	22.41	22.34	22.26	
10	16QAM	1	49	22.05	22.39	22.03	
10	16QAM	25	0	20.85	20.98	20.98	22.5
10	16QAM	25	12	20.84	20.96	21.00	
10	16QAM	25	25	20.88	20.97	21.00	
10	16QAM	50	0	20.84	20.93	21.02	
10	64QAM	1	0	21.08	21.09	21.01	22.5
10	64QAM	1	25	21.16	21.19	21.07	
10	64QAM	1	49	20.79	21.05	20.86	
10	64QAM	25	0	19.73	20.05	20.05	21.5
10	64QAM	25	12	19.93	19.94	20.01	
10	64QAM	25	25	20.02	19.96	19.95	
10	64QAM	50	0	19.89	19.85	20.08	
10	256QAM	1	0	17.90	17.71	18.23	19.5
10	256QAM	1	25	17.99	18.06	17.97	
10	256QAM	1	49	18.06	17.85	18.07	
10	256QAM	25	0	18.01	17.95	18.09	19.5
10	256QAM	25	12	18.30	18.22	18.15	
10	256QAM	25	25	18.28	17.98	18.15	
10	256QAM	50	0	18.11	17.93	18.20	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.74	22.94	22.82	24.5
5	QPSK	1	12	22.83	23.02	22.84	
5	QPSK	1	24	22.59	22.84	22.76	
5	QPSK	12	0	21.85	21.85	21.95	23.5
5	QPSK	12	7	21.84	22.01	22.03	
5	QPSK	12	13	21.83	22.00	21.90	
5	QPSK	25	0	21.86	21.96	21.90	
5	16QAM	1	0	22.09	22.31	22.06	23.5
5	16QAM	1	12	22.47	22.46	22.24	
5	16QAM	1	24	22.03	22.48	21.98	
5	16QAM	12	0	20.76	21.00	20.94	22.5
5	16QAM	12	7	20.87	20.97	20.99	
5	16QAM	12	13	20.98	20.86	20.84	
5	16QAM	25	0	20.98	20.77	20.95	
5	64QAM	1	0	21.12	21.09	21.08	22.5
5	64QAM	1	12	21.05	21.06	21.06	
5	64QAM	1	24	20.90	21.03	21.02	



FCC SAR TEST REPORT

Report No. : FA210409

5	64QAM	12	0	19.77	19.99	19.91	21.5
5	64QAM	12	7	19.99	19.88	20.01	
5	64QAM	12	13	19.92	19.87	19.95	
5	64QAM	25	0	19.82	19.81	19.92	
5	256QAM	1	0	18.00	17.77	18.15	19.5
5	256QAM	1	12	17.98	18.00	18.00	
5	256QAM	1	24	17.99	17.77	18.10	
5	256QAM	12	0	17.96	17.76	18.18	19.5
5	256QAM	12	7	18.21	18.17	18.25	
5	256QAM	12	13	18.24	18.09	18.18	
5	256QAM	25	0	18.02	17.95	18.14	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.80	22.87	22.83	24.5
3	QPSK	1	8	22.75	23.00	22.80	
3	QPSK	1	14	22.84	22.91	22.75	
3	QPSK	8	0	21.77	21.98	21.81	23.5
3	QPSK	8	4	21.91	21.81	21.92	
3	QPSK	8	7	21.91	22.00	21.96	
3	QPSK	15	0	21.93	21.92	21.82	
3	16QAM	1	0	22.03	22.32	22.08	23.5
3	16QAM	1	8	22.53	22.41	22.22	
3	16QAM	1	14	22.13	22.27	22.03	
3	16QAM	8	0	20.82	20.87	21.04	22.5
3	16QAM	8	4	20.78	20.90	21.07	
3	16QAM	8	7	20.85	20.95	20.91	
3	16QAM	15	0	20.93	20.81	20.86	
3	64QAM	1	0	21.25	21.09	21.08	22.5
3	64QAM	1	8	21.05	21.12	21.10	
3	64QAM	1	14	20.83	21.04	20.85	
3	64QAM	8	0	19.71	19.82	19.90	21.5
3	64QAM	8	4	19.93	19.95	20.00	
3	64QAM	8	7	19.81	19.89	19.76	
3	64QAM	15	0	19.76	19.75	19.99	
3	256QAM	1	0	18.11	17.93	18.25	19.5
3	256QAM	1	8	17.98	18.02	18.11	
3	256QAM	1	14	18.04	17.69	18.08	
3	256QAM	8	0	17.97	17.81	18.11	19.5
3	256QAM	8	4	18.10	18.19	18.07	
3	256QAM	8	7	18.39	18.06	18.17	
3	256QAM	15	0	18.03	17.98	18.27	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.69	23.01	22.94	24.5
1.4	QPSK	1	3	22.81	22.89	22.97	
1.4	QPSK	1	5	22.80	22.87	22.83	
1.4	QPSK	3	0	22.92	22.88	22.78	
1.4	QPSK	3	1	22.82	22.85	22.80	
1.4	QPSK	3	3	22.67	22.85	22.88	
1.4	QPSK	6	0	21.95	21.90	21.99	23.5
1.4	16QAM	1	0	22.03	22.18	22.10	23.5
1.4	16QAM	1	3	22.39	22.38	22.21	
1.4	16QAM	1	5	22.22	22.40	21.94	
1.4	16QAM	3	0	22.12	22.18	22.06	
1.4	16QAM	3	1	22.47	22.35	22.12	
1.4	16QAM	3	3	22.17	22.38	22.14	



1.4	16QAM	6	0	20.89	21.01	20.86	22.5
1.4	64QAM	1	0	21.04	21.07	21.05	22.5
1.4	64QAM	1	3	21.19	21.06	21.14	
1.4	64QAM	1	5	20.77	20.89	20.99	
1.4	64QAM	3	0	20.99	21.24	20.99	
1.4	64QAM	3	1	21.18	21.07	20.91	
1.4	64QAM	3	3	20.95	20.92	21.01	
1.4	64QAM	6	0	19.89	19.84	19.85	21.5
1.4	256QAM	1	0	17.95	17.81	18.12	19.5
1.4	256QAM	1	3	17.96	18.08	18.13	
1.4	256QAM	1	5	17.95	17.68	18.19	
1.4	256QAM	3	0	18.19	17.78	18.18	
1.4	256QAM	3	1	18.23	18.14	18.25	
1.4	256QAM	3	3	18.34	18.06	18.14	
1.4	256QAM	6	0	17.94	17.92	18.24	19.5

FDD LTE Band 2_Ant 2_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	24
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.72	22.71	22.75	24
20	QPSK	1	49	22.75	22.76	22.77	
20	QPSK	1	99	22.63	22.75	22.67	
20	QPSK	50	0	21.81	21.80	21.88	23
20	QPSK	50	24	21.84	21.85	21.86	
20	QPSK	50	50	21.77	21.86	21.81	
20	QPSK	100	0	21.79	21.82	21.83	23
20	16QAM	1	0	22.12	22.16	22.29	
20	16QAM	1	49	22.26	22.29	22.12	
20	16QAM	1	99	21.93	22.03	21.94	
20	16QAM	50	0	20.85	20.93	20.91	
20	16QAM	50	24	20.86	20.88	20.85	
20	16QAM	50	50	20.87	20.89	20.84	22
20	16QAM	100	0	20.89	20.89	20.86	
20	64QAM	1	0	20.88	21.12	21.00	
20	64QAM	1	49	21.09	21.22	21.06	22
20	64QAM	1	99	21.01	20.95	20.91	
20	64QAM	50	0	19.84	19.91	19.90	
20	64QAM	50	24	19.89	19.87	19.85	21
20	64QAM	50	50	19.85	19.91	19.80	
20	64QAM	100	0	19.87	19.86	19.87	
20	256QAM	1	0	17.72	17.71	17.86	19
20	256QAM	1	49	17.81	17.82	17.67	
20	256QAM	1	99	17.77	17.74	17.69	
20	256QAM	50	0	17.73	17.82	17.82	19
20	256QAM	50	24	17.77	17.91	17.82	
20	256QAM	50	50	17.72	17.76	17.84	
20	256QAM	100	0	17.81	17.76	17.89	
Channel				18675	18900	19125	24
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.66	22.70	22.67	24
15	QPSK	1	37	22.71	22.71	22.71	
15	QPSK	1	74	22.62	22.67	22.57	
15	QPSK	36	0	21.69	21.77	21.78	



FCC SAR TEST REPORT

Report No. : FA210409

15	QPSK	36	20	21.70	21.76	21.77	
15	QPSK	36	39	21.70	21.81	21.71	
15	QPSK	75	0	21.75	21.75	21.75	
15	16QAM	1	0	21.90	22.11	22.05	23
15	16QAM	1	37	22.01	22.17	22.12	
15	16QAM	1	74	22.08	21.99	21.77	
15	16QAM	36	0	20.73	20.84	20.78	22
15	16QAM	36	20	20.76	20.78	20.81	
15	16QAM	36	39	20.71	20.80	20.70	
15	16QAM	75	0	20.76	20.78	20.76	
15	64QAM	1	0	21.01	20.92	21.05	22
15	64QAM	1	37	20.93	21.02	20.97	
15	64QAM	1	74	20.80	21.00	20.75	
15	64QAM	36	0	19.71	19.83	19.80	21
15	64QAM	36	20	19.79	19.78	19.79	
15	64QAM	36	39	19.73	19.84	19.75	
15	64QAM	75	0	19.75	19.76	19.76	
15	256QAM	1	0	17.64	17.69	17.80	19
15	256QAM	1	37	17.78	17.68	17.67	
15	256QAM	1	74	17.67	17.67	17.54	
15	256QAM	36	0	17.63	17.67	17.69	19
15	256QAM	36	20	17.58	17.74	17.74	
15	256QAM	36	39	17.59	17.63	17.82	
15	256QAM	75	0	17.62	17.60	17.78	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.76	22.70	22.73	24
10	QPSK	1	25	22.71	22.76	22.70	
10	QPSK	1	49	22.65	22.77	22.71	
10	QPSK	25	0	21.81	21.96	21.93	23
10	QPSK	25	12	21.90	21.93	21.89	
10	QPSK	25	25	21.82	21.94	21.83	
10	QPSK	50	0	21.88	21.93	21.87	
10	16QAM	1	0	22.22	22.35	22.29	23
10	16QAM	1	25	22.08	22.27	22.26	
10	16QAM	1	49	22.20	22.30	22.13	
10	16QAM	25	0	20.85	20.98	21.00	22
10	16QAM	25	12	20.92	20.90	20.95	
10	16QAM	25	25	20.82	20.99	20.87	
10	16QAM	50	0	20.88	20.91	20.90	
10	64QAM	1	0	21.15	21.23	21.05	22
10	64QAM	1	25	20.99	21.12	21.06	
10	64QAM	1	49	20.91	21.02	21.10	
10	64QAM	25	0	19.82	19.97	19.99	
10	64QAM	25	12	19.90	19.96	19.94	21
10	64QAM	25	25	19.83	19.94	19.86	
10	64QAM	50	0	19.88	19.92	19.91	
10	256QAM	1	0	17.60	17.59	17.73	
10	256QAM	1	25	17.71	17.65	17.56	19
10	256QAM	1	49	17.62	17.66	17.55	
10	256QAM	25	0	17.63	17.65	17.70	
10	256QAM	25	12	17.68	17.75	17.75	19
10	256QAM	25	25	17.65	17.66	17.68	
10	256QAM	50	0	17.72	17.58	17.73	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	



FCC SAR TEST REPORT

Report No. : FA210409

5	QPSK	1	0	22.76	22.77	22.75	24
5	QPSK	1	12	22.75	22.69	22.73	
5	QPSK	1	24	22.67	22.71	22.69	
5	QPSK	12	0	21.87	21.95	21.92	23
5	QPSK	12	7	21.85	21.91	21.85	
5	QPSK	12	13	21.81	21.91	21.79	
5	QPSK	25	0	21.82	21.89	21.85	23
5	16QAM	1	0	22.17	22.34	22.26	
5	16QAM	1	12	22.16	22.39	22.35	
5	16QAM	1	24	21.99	22.17	22.05	22
5	16QAM	12	0	20.91	21.01	20.95	
5	16QAM	12	7	20.94	20.96	20.94	
5	16QAM	12	13	20.83	20.93	20.85	22
5	16QAM	25	0	20.88	20.89	20.86	
5	64QAM	1	0	20.98	21.07	21.01	
5	64QAM	1	12	20.98	21.18	21.05	21
5	64QAM	1	24	21.02	21.05	20.92	
5	64QAM	12	0	19.88	19.98	19.93	
5	64QAM	12	7	19.90	20.00	19.90	19
5	64QAM	12	13	19.79	19.91	19.82	
5	64QAM	25	0	19.92	19.90	19.89	
5	256QAM	1	0	17.58	17.58	17.75	19
5	256QAM	1	12	17.80	17.73	17.56	
5	256QAM	1	24	17.60	17.60	17.55	
5	256QAM	12	0	17.56	17.78	17.65	19
5	256QAM	12	7	17.65	17.89	17.72	
5	256QAM	12	13	17.69	17.67	17.77	
5	256QAM	25	0	17.73	17.65	17.79	Tune-up limit (dBm)
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.76	22.73	22.74	24
3	QPSK	1	8	22.76	22.71	22.77	
3	QPSK	1	14	22.59	22.74	22.60	
3	QPSK	8	0	21.87	21.94	21.91	23
3	QPSK	8	4	21.85	22.01	21.87	
3	QPSK	8	7	21.81	21.91	21.80	
3	QPSK	15	0	21.81	21.89	21.81	23
3	16QAM	1	0	22.17	22.33	22.08	
3	16QAM	1	8	22.08	22.28	22.19	
3	16QAM	1	14	21.94	22.25	21.96	22
3	16QAM	8	0	20.96	21.00	20.98	
3	16QAM	8	4	20.94	21.05	20.93	
3	16QAM	8	7	20.82	20.99	20.84	22
3	16QAM	15	0	20.87	20.90	20.88	
3	64QAM	1	0	20.96	21.10	20.96	
3	64QAM	1	8	21.08	21.24	21.06	22
3	64QAM	1	14	20.82	20.94	20.94	
3	64QAM	8	0	19.91	20.00	19.95	
3	64QAM	8	4	19.85	20.07	19.85	21
3	64QAM	8	7	19.81	19.94	19.89	
3	64QAM	15	0	19.86	19.92	19.83	
3	256QAM	1	0	17.65	17.64	17.69	19
3	256QAM	1	8	17.67	17.66	17.54	
3	256QAM	1	14	17.65	17.62	17.64	
3	256QAM	8	0	17.68	17.71	17.80	19
3	256QAM	8	4	17.73	17.84	17.67	



3	256QAM	8	7	17.60	17.60	17.83	
3	256QAM	15	0	17.71	17.70	17.73	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.73	22.71	22.77	24
1.4	QPSK	1	3	22.72	22.72	22.77	
1.4	QPSK	1	5	22.64	22.75	22.65	
1.4	QPSK	3	0	22.77	22.74	22.76	
1.4	QPSK	3	1	22.70	22.73	22.75	
1.4	QPSK	3	3	22.72	22.66	22.77	
1.4	QPSK	6	0	21.79	21.94	21.79	23
1.4	16QAM	1	0	22.31	22.35	22.20	23
1.4	16QAM	1	3	22.22	22.27	22.15	
1.4	16QAM	1	5	22.11	22.26	22.12	
1.4	16QAM	3	0	22.04	22.05	21.95	
1.4	16QAM	3	1	21.92	22.15	21.87	
1.4	16QAM	3	3	21.96	22.06	21.96	
1.4	16QAM	6	0	20.85	21.08	20.86	22
1.4	64QAM	1	0	21.04	21.00	21.01	22
1.4	64QAM	1	3	21.00	21.23	21.03	
1.4	64QAM	1	5	20.82	20.97	21.00	
1.4	64QAM	3	0	20.91	21.10	20.97	
1.4	64QAM	3	1	20.89	21.07	20.96	
1.4	64QAM	3	3	20.88	21.02	20.89	
1.4	64QAM	6	0	19.87	19.99	19.74	21
1.4	256QAM	1	0	17.66	17.68	17.67	19
1.4	256QAM	1	3	17.70	17.71	17.60	
1.4	256QAM	1	5	17.69	17.60	17.65	
1.4	256QAM	3	0	17.64	17.71	17.64	
1.4	256QAM	3	1	17.61	17.85	17.73	
1.4	256QAM	3	3	17.64	17.64	17.65	
1.4	256QAM	6	0	17.78	17.62	17.87	19



FDD LTE Band 2_Ant 4_State 0/1/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.33	22.43	22.63	24
20	QPSK	1	49	22.32	22.54	22.36	
20	QPSK	1	99	22.53	22.44	22.41	
20	QPSK	50	0	21.49	21.66	21.61	23
20	QPSK	50	24	21.37	21.47	21.57	
20	QPSK	50	50	21.55	21.60	21.54	
20	QPSK	100	0	21.52	22.57	21.48	23
20	16QAM	1	0	21.62	21.69	21.92	
20	16QAM	1	49	21.97	21.77	21.93	
20	16QAM	1	99	21.61	21.64	21.55	22
20	16QAM	50	0	20.62	20.70	20.62	
20	16QAM	50	24	20.40	20.76	20.52	
20	16QAM	50	50	20.42	20.61	20.56	22
20	16QAM	100	0	20.39	20.61	20.47	
20	64QAM	1	0	20.39	20.64	20.76	
20	64QAM	1	49	20.45	20.77	20.75	22
20	64QAM	1	99	20.44	20.65	20.36	
20	64QAM	50	0	19.63	19.62	19.53	
20	64QAM	50	24	19.41	19.78	19.66	21
20	64QAM	50	50	19.36	19.68	19.42	
20	64QAM	100	0	19.36	19.45	19.48	
20	256QAM	1	0	17.65	17.59	17.48	19
20	256QAM	1	49	17.52	17.52	17.53	
20	256QAM	1	99	17.59	17.34	17.48	
20	256QAM	50	0	17.37	17.34	17.42	19
20	256QAM	50	24	17.47	17.55	17.72	
20	256QAM	50	50	17.33	17.65	17.73	
20	256QAM	100	0	17.45	17.43	17.44	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.14	22.25	22.63	24
15	QPSK	1	37	22.20	22.35	22.24	
15	QPSK	1	74	22.42	22.29	22.35	
15	QPSK	36	0	21.39	21.57	21.53	23
15	QPSK	36	20	21.36	21.39	21.51	
15	QPSK	36	39	21.52	21.56	21.42	
15	QPSK	75	0	21.34	22.44	21.32	23
15	16QAM	1	0	21.57	21.56	21.90	
15	16QAM	1	37	21.92	21.69	21.86	
15	16QAM	1	74	21.41	21.48	21.47	22
15	16QAM	36	0	20.52	20.52	20.62	
15	16QAM	36	20	20.29	20.58	20.33	
15	16QAM	36	39	20.28	20.61	20.44	22
15	16QAM	75	0	20.27	20.57	20.47	
15	64QAM	1	0	20.20	20.49	20.67	
15	64QAM	1	37	20.25	20.58	20.73	22
15	64QAM	1	74	20.35	20.57	20.17	
15	64QAM	36	0	19.56	19.57	19.40	
15	64QAM	36	20	19.24	19.70	19.65	21
15	64QAM	36	39	19.32	19.48	19.36	
15	64QAM	75	0	19.31	19.28	19.29	
15	256QAM	1	0	17.55	17.54	17.37	19
15	256QAM	1	37	17.51	17.42	17.44	
15	256QAM	1	74	17.48	17.31	17.47	
15	256QAM	36	0	17.27	17.29	17.33	19
15	256QAM	36	20	17.37	17.40	17.53	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	17.15	17.62	17.56	
15	256QAM	75	0	17.37	17.25	17.39	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.31	22.36	22.55	24
10	QPSK	1	25	22.31	22.37	22.30	
10	QPSK	1	49	22.38	22.24	22.36	
10	QPSK	25	0	21.32	21.56	21.49	23
10	QPSK	25	12	21.26	21.35	21.56	
10	QPSK	25	25	21.45	21.44	21.48	
10	QPSK	50	0	21.34	22.54	21.44	
10	16QAM	1	0	21.55	21.50	21.75	23
10	16QAM	1	25	21.78	21.74	21.89	
10	16QAM	1	49	21.47	21.59	21.36	
10	16QAM	25	0	20.48	20.65	20.49	22
10	16QAM	25	12	20.30	20.76	20.41	
10	16QAM	25	25	20.39	20.48	20.49	
10	16QAM	50	0	20.35	20.49	20.33	
10	64QAM	1	0	20.33	20.60	20.70	22
10	64QAM	1	25	20.28	20.75	20.64	
10	64QAM	1	49	20.43	20.47	20.18	
10	64QAM	25	0	19.58	19.56	19.34	21
10	64QAM	25	12	19.28	19.75	19.48	
10	64QAM	25	25	19.30	19.62	19.35	
10	64QAM	50	0	19.36	19.43	19.38	
10	256QAM	1	0	17.59	17.59	17.46	19
10	256QAM	1	25	17.42	17.47	17.44	
10	256QAM	1	49	17.50	17.28	17.42	
10	256QAM	25	0	17.19	17.32	17.34	19
10	256QAM	25	12	17.47	17.47	17.72	
10	256QAM	25	25	17.30	17.61	17.55	
10	256QAM	50	0	17.38	17.32	17.43	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.23	22.26	22.58	24
5	QPSK	1	12	22.12	22.45	22.31	
5	QPSK	1	24	22.41	22.30	22.40	
5	QPSK	12	0	21.32	21.58	21.49	23
5	QPSK	12	7	21.19	21.37	21.48	
5	QPSK	12	13	21.51	21.43	21.40	
5	QPSK	25	0	21.43	22.50	21.41	
5	16QAM	1	0	21.47	21.49	21.72	23
5	16QAM	1	12	21.91	21.69	21.82	
5	16QAM	1	24	21.50	21.63	21.37	
5	16QAM	12	0	20.46	20.70	20.42	22
5	16QAM	12	7	20.31	20.66	20.48	
5	16QAM	12	13	20.29	20.57	20.41	
5	16QAM	25	0	20.26	20.56	20.46	
5	64QAM	1	0	20.30	20.59	20.75	22
5	64QAM	1	12	20.26	20.63	20.64	
5	64QAM	1	24	20.35	20.63	20.16	
5	64QAM	12	0	19.52	19.52	19.42	21
5	64QAM	12	7	19.25	19.63	19.64	
5	64QAM	12	13	19.24	19.65	19.35	
5	64QAM	25	0	19.30	19.39	19.43	
5	256QAM	1	0	17.47	17.51	17.36	19
5	256QAM	1	12	17.41	17.47	17.34	
5	256QAM	1	24	17.43	17.30	17.33	
5	256QAM	12	0	17.27	17.15	17.33	19
5	256QAM	12	7	17.29	17.39	17.60	
5	256QAM	12	13	17.15	17.59	17.65	
5	256QAM	25	0	17.44	17.24	17.35	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				18615	18900	19185	Tune-up limit (dBm)	
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.16	22.43	22.50	24	
3	QPSK	1	8	22.21	22.40	22.18		
3	QPSK	1	14	22.41	22.43	22.21		
3	QPSK	8	0	21.36	21.65	21.54	23	
3	QPSK	8	4	21.25	21.35	21.37		
3	QPSK	8	7	21.47	21.56	21.52		
3	QPSK	15	0	21.39	22.37	21.45	23	
3	16QAM	1	0	21.58	21.58	21.85		
3	16QAM	1	8	21.97	21.62	21.91		
3	16QAM	1	14	21.42	21.59	21.51	22	
3	16QAM	8	0	20.60	20.51	20.61		
3	16QAM	8	4	20.32	20.67	20.36		
3	16QAM	8	7	20.35	20.57	20.56	22	
3	16QAM	15	0	20.32	20.47	20.34		
3	64QAM	1	0	20.35	20.49	20.59		
3	64QAM	1	8	20.44	20.72	20.74	22	
3	64QAM	1	14	20.29	20.62	20.18		
3	64QAM	8	0	19.57	19.51	19.36		
3	64QAM	8	4	19.40	19.59	19.54	21	
3	64QAM	8	7	19.31	19.62	19.27		
3	64QAM	15	0	19.31	19.33	19.33		
3	256QAM	1	0	17.57	17.57	17.34	19	
3	256QAM	1	8	17.37	17.48	17.35		
3	256QAM	1	14	17.55	17.14	17.42		
3	256QAM	8	0	17.21	17.34	17.28	19	
3	256QAM	8	4	17.36	17.53	17.54		
3	256QAM	8	7	17.16	17.45	17.56		
3	256QAM	15	0	17.30	17.37	17.37	19	
Channel				18607	18900	19193		Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.19	22.24	22.54	24	
1.4	QPSK	1	3	22.18	22.39	22.20		
1.4	QPSK	1	5	22.45	22.42	22.35		
1.4	QPSK	3	0	22.15	22.42	22.47	23	
1.4	QPSK	3	1	22.17	22.37	22.33		
1.4	QPSK	3	3	22.42	22.40	22.29		
1.4	QPSK	6	0	21.49	22.38	21.48	23	
1.4	16QAM	1	0	21.42	21.65	21.84		
1.4	16QAM	1	3	21.85	21.75	21.92		
1.4	16QAM	1	5	21.61	21.53	21.51	23	
1.4	16QAM	3	0	21.44	21.62	21.85		
1.4	16QAM	3	1	21.79	21.66	21.79		
1.4	16QAM	3	3	21.55	21.64	21.36	22	
1.4	16QAM	6	0	20.26	20.48	20.33		
1.4	64QAM	1	0	20.26	20.45	20.74		
1.4	64QAM	1	3	20.25	20.68	20.61	22	
1.4	64QAM	1	5	20.26	20.46	20.19		
1.4	64QAM	3	0	20.51	20.55	20.47		
1.4	64QAM	3	1	20.37	20.72	20.34	21	
1.4	64QAM	3	3	20.24	20.57	20.39		
1.4	64QAM	6	0	19.29	19.25	19.44		
1.4	256QAM	1	0	17.55	17.49	17.29	19	
1.4	256QAM	1	3	17.40	17.44	17.52		
1.4	256QAM	1	5	17.48	17.14	17.46		
1.4	256QAM	3	0	17.23	17.20	17.39	19	
1.4	256QAM	3	1	17.44	17.49	17.62		
1.4	256QAM	3	3	17.22	17.58	17.71		
1.4	256QAM	6	0	17.27	17.38	17.37	19	



FDD LTE Band 2_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.09	18.35	18.63	19.5
20	QPSK	1	49	18.23	18.37	18.35	
20	QPSK	1	99	18.18	18.19	18.16	
20	QPSK	50	0	17.11	17.20	17.30	18.5
20	QPSK	50	24	17.23	17.21	17.29	
20	QPSK	50	50	17.16	17.23	17.25	
20	QPSK	100	0	17.17	17.25	17.26	18.5
20	16QAM	1	0	17.19	17.21	17.27	
20	16QAM	1	49	17.49	17.65	17.34	
20	16QAM	1	99	17.10	17.10	17.15	17.5
20	16QAM	50	0	16.12	16.22	16.22	
20	16QAM	50	24	16.17	16.21	16.27	
20	16QAM	50	50	16.20	16.28	16.30	17.5
20	16QAM	100	0	16.16	16.17	16.28	
20	64QAM	1	0	16.21	16.45	16.37	
20	64QAM	1	49	16.17	16.30	16.31	17.5
20	64QAM	1	99	16.14	16.43	16.42	
20	64QAM	50	0	15.18	15.14	15.22	
20	64QAM	50	24	15.10	15.20	15.26	16.5
20	64QAM	50	50	15.18	15.21	15.20	
20	64QAM	100	0	15.10	15.22	15.28	
20	256QAM	1	0	13.12	13.20	13.31	14.5
20	256QAM	1	49	13.15	13.26	13.43	
20	256QAM	1	99	13.25	13.35	13.29	
20	256QAM	50	0	13.04	13.12	13.22	14.5
20	256QAM	50	24	13.15	13.19	13.23	
20	256QAM	50	50	13.09	13.20	13.30	
20	256QAM	100	0	13.06	13.11	13.27	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	18.02	18.26	18.54	19.5
15	QPSK	1	37	18.19	18.18	18.30	
15	QPSK	1	74	18.16	18.07	18.12	
15	QPSK	36	0	17.11	17.12	17.26	18.5
15	QPSK	36	20	17.04	17.05	17.13	
15	QPSK	36	39	17.01	17.03	17.15	
15	QPSK	75	0	17.10	17.18	17.13	18.5
15	16QAM	1	0	17.16	17.04	17.17	
15	16QAM	1	37	17.32	17.53	17.25	
15	16QAM	1	74	16.90	16.94	16.98	17.5
15	16QAM	36	0	16.10	16.21	16.12	
15	16QAM	36	20	16.09	16.01	16.09	
15	16QAM	36	39	16.18	16.25	16.29	17.5
15	16QAM	75	0	16.15	16.14	16.24	
15	64QAM	1	0	16.19	16.26	16.18	
15	64QAM	1	37	16.16	16.21	16.29	17.5
15	64QAM	1	74	16.05	16.31	16.37	
15	64QAM	36	0	15.04	14.99	15.07	
15	64QAM	36	20	14.97	15.01	15.21	16.5
15	64QAM	36	39	15.10	15.18	15.18	
15	64QAM	75	0	15.04	15.12	15.27	
15	256QAM	1	0	12.99	13.08	13.24	14.5
15	256QAM	1	37	12.96	13.25	13.25	
15	256QAM	1	74	13.15	13.33	13.14	
15	256QAM	36	0	13.00	12.99	13.08	14.5
15	256QAM	36	20	13.15	13.19	13.12	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	13.04	13.20	13.10	
15	256QAM	75	0	12.88	12.98	13.09	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.03	18.18	18.51	19.5
10	QPSK	1	25	18.16	18.28	18.31	
10	QPSK	1	49	18.02	18.10	18.12	
10	QPSK	25	0	16.96	17.15	17.21	18.5
10	QPSK	25	12	17.17	17.05	17.25	
10	QPSK	25	25	17.06	17.04	17.20	
10	QPSK	50	0	17.14	17.19	17.22	
10	16QAM	1	0	17.09	17.08	17.13	18.5
10	16QAM	1	25	17.45	17.46	17.34	
10	16QAM	1	49	16.91	16.94	17.00	
10	16QAM	25	0	16.11	16.18	16.13	17.5
10	16QAM	25	12	16.13	16.19	16.08	
10	16QAM	25	25	16.05	16.26	16.16	
10	16QAM	50	0	16.16	16.15	16.28	
10	64QAM	1	0	16.12	16.35	16.20	17.5
10	64QAM	1	25	15.97	16.28	16.18	
10	64QAM	1	49	16.10	16.32	16.25	
10	64QAM	25	0	15.14	15.05	15.21	16.5
10	64QAM	25	12	15.03	15.02	15.26	
10	64QAM	25	25	15.17	15.05	15.04	
10	64QAM	50	0	15.05	15.06	15.27	
10	256QAM	1	0	13.04	13.11	13.12	14.5
10	256QAM	1	25	13.13	13.23	13.43	
10	256QAM	1	49	13.06	13.30	13.14	
10	256QAM	25	0	13.01	13.02	13.12	14.5
10	256QAM	25	12	13.07	13.02	13.14	
10	256QAM	25	25	13.04	13.04	13.18	
10	256QAM	50	0	13.03	13.06	13.11	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.08	18.29	18.62	19.5
5	QPSK	1	12	18.07	18.22	18.29	
5	QPSK	1	24	18.03	18.12	17.99	
5	QPSK	12	0	16.94	17.17	17.17	18.5
5	QPSK	12	7	17.12	17.03	17.28	
5	QPSK	12	13	17.05	17.11	17.08	
5	QPSK	25	0	17.01	17.11	17.07	
5	16QAM	1	0	17.03	17.05	17.16	18.5
5	16QAM	1	12	17.33	17.49	17.19	
5	16QAM	1	24	17.04	17.06	17.09	
5	16QAM	12	0	16.12	16.17	16.09	17.5
5	16QAM	12	7	16.11	16.08	16.23	
5	16QAM	12	13	16.07	16.09	16.26	
5	16QAM	25	0	16.08	16.12	16.24	
5	64QAM	1	0	16.14	16.39	16.22	17.5
5	64QAM	1	12	15.97	16.13	16.31	
5	64QAM	1	24	16.02	16.29	16.33	
5	64QAM	12	0	15.13	15.01	15.13	16.5
5	64QAM	12	7	15.03	15.20	15.20	
5	64QAM	12	13	15.01	15.11	15.20	
5	64QAM	25	0	14.93	15.07	15.18	
5	256QAM	1	0	12.98	13.12	13.30	14.5
5	256QAM	1	12	13.13	13.20	13.43	
5	256QAM	1	24	13.14	13.27	13.24	
5	256QAM	12	0	12.90	13.01	13.10	14.5
5	256QAM	12	7	13.00	13.18	13.05	
5	256QAM	12	13	12.99	13.08	13.15	
5	256QAM	25	0	12.90	12.98	13.18	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.09	18.34	18.54	19.5
3	QPSK	1	8	18.05	18.34	18.19	
3	QPSK	1	14	18.14	18.04	18.16	
3	QPSK	8	0	17.11	17.03	17.16	18.5
3	QPSK	8	4	17.18	17.07	17.20	
3	QPSK	8	7	16.98	17.18	17.20	
3	QPSK	15	0	17.15	17.23	17.12	18.5
3	16QAM	1	0	17.00	17.20	17.08	
3	16QAM	1	8	17.38	17.54	17.26	
3	16QAM	1	14	16.99	16.99	17.10	17.5
3	16QAM	8	0	16.10	16.14	16.09	
3	16QAM	8	4	16.01	16.06	16.22	
3	16QAM	8	7	16.06	16.26	16.29	17.5
3	16QAM	15	0	16.16	16.05	16.24	
3	64QAM	1	0	16.05	16.32	16.21	
3	64QAM	1	8	16.11	16.10	16.19	17.5
3	64QAM	1	14	16.12	16.39	16.38	
3	64QAM	8	0	14.99	15.13	15.15	
3	64QAM	8	4	15.00	15.11	15.23	16.5
3	64QAM	8	7	14.99	15.04	15.11	
3	64QAM	15	0	14.99	15.04	15.26	
3	256QAM	1	0	12.99	13.12	13.15	14.5
3	256QAM	1	8	13.03	13.17	13.34	
3	256QAM	1	14	13.08	13.25	13.22	
3	256QAM	8	0	12.98	12.95	13.13	14.5
3	256QAM	8	4	13.08	13.10	13.13	
3	256QAM	8	7	12.95	13.20	13.16	
3	256QAM	15	0	13.05	13.05	13.27	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.02	18.20	18.45	19.5
1.4	QPSK	1	3	18.07	18.22	18.17	
1.4	QPSK	1	5	18.05	18.00	18.00	
1.4	QPSK	3	0	17.97	18.28	18.44	18.5
1.4	QPSK	3	1	18.13	18.26	18.20	
1.4	QPSK	3	3	18.01	18.10	17.99	
1.4	QPSK	6	0	16.93	17.01	17.17	18.5
1.4	16QAM	1	0	17.22	17.13	17.25	
1.4	16QAM	1	3	17.08	17.04	17.11	
1.4	16QAM	1	5	17.05	17.15	17.23	18.5
1.4	16QAM	3	0	16.94	17.07	17.26	
1.4	16QAM	3	1	17.18	17.12	17.21	
1.4	16QAM	3	3	17.08	17.04	17.08	17.5
1.4	16QAM	6	0	16.05	16.10	16.17	
1.4	64QAM	1	0	16.07	16.02	16.07	
1.4	64QAM	1	3	16.02	16.25	16.23	17.5
1.4	64QAM	1	5	16.05	16.12	16.14	
1.4	64QAM	3	0	16.03	16.16	16.11	
1.4	64QAM	3	1	16.03	15.97	16.16	16.5
1.4	64QAM	3	3	16.16	16.27	16.26	
1.4	64QAM	6	0	15.99	16.23	16.28	
1.4	256QAM	1	0	12.94	13.05	13.14	14.5
1.4	256QAM	1	3	12.99	13.12	13.40	
1.4	256QAM	1	5	13.06	13.28	13.15	
1.4	256QAM	3	0	13.03	13.05	13.11	14.5
1.4	256QAM	3	1	13.11	13.18	13.22	
1.4	256QAM	3	3	13.07	13.03	13.13	
1.4	256QAM	6	0	13.05	12.97	13.14	14.5



FDD LTE Band 4_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.58	22.53	22.49	24.5
20	QPSK	1	49	22.32	22.71	22.67	
20	QPSK	1	99	22.64	22.44	22.53	
20	QPSK	50	0	21.41	21.69	21.51	23.5
20	QPSK	50	24	21.59	21.68	21.61	
20	QPSK	50	50	21.65	21.65	21.65	
20	QPSK	100	0	21.58	21.59	21.57	23.5
20	16QAM	1	0	21.82	21.68	21.76	
20	16QAM	1	49	21.80	22.07	21.89	
20	16QAM	1	99	21.81	22.02	21.84	22.5
20	16QAM	50	0	20.65	20.56	20.60	
20	16QAM	50	24	20.55	20.67	20.75	
20	16QAM	50	50	20.58	20.63	20.83	22.5
20	16QAM	100	0	20.51	20.52	20.65	
20	64QAM	1	0	20.44	20.55	20.83	
20	64QAM	1	49	20.64	20.93	20.86	21.5
20	64QAM	1	99	20.73	20.66	20.66	
20	64QAM	50	0	19.84	19.93	19.96	
20	64QAM	50	24	19.65	19.76	19.94	19.5
20	64QAM	50	50	19.76	19.78	19.90	
20	64QAM	100	0	19.65	19.84	19.92	
20	256QAM	1	0	17.81	17.82	18.04	19.5
20	256QAM	1	49	17.91	17.69	18.06	
20	256QAM	1	99	17.86	17.71	18.10	
20	256QAM	50	0	17.75	17.79	18.07	19.5
20	256QAM	50	24	17.98	17.73	18.05	
20	256QAM	50	50	18.02	18.11	17.90	
20	256QAM	100	0	17.98	17.98	17.90	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.55	22.49	22.31	24.5
15	QPSK	1	37	22.23	22.54	22.60	
15	QPSK	1	74	22.50	22.36	22.38	
15	QPSK	36	0	21.25	21.58	21.31	23.5
15	QPSK	36	20	21.39	21.44	21.50	
15	QPSK	36	39	21.52	21.60	21.49	
15	QPSK	75	0	21.46	21.46	21.38	23.5
15	16QAM	1	0	21.72	21.52	21.65	
15	16QAM	1	37	21.80	21.98	21.70	
15	16QAM	1	74	21.77	21.82	21.84	22.5
15	16QAM	36	0	20.59	20.38	20.57	
15	16QAM	36	20	20.43	20.62	20.57	
15	16QAM	36	39	20.41	20.43	20.69	22.5
15	16QAM	75	0	20.38	20.46	20.46	
15	64QAM	1	0	20.43	20.50	20.70	
15	64QAM	1	37	20.53	20.74	20.70	21.5
15	64QAM	1	74	20.63	20.55	20.50	
15	64QAM	36	0	19.70	19.89	19.79	
15	64QAM	36	20	19.51	19.62	19.81	19.5
15	64QAM	36	39	19.64	19.68	19.86	
15	64QAM	75	0	19.62	19.80	19.75	
15	256QAM	1	0	17.69	17.81	18.01	19.5
15	256QAM	1	37	17.78	17.58	17.98	
15	256QAM	1	74	17.71	17.71	17.92	
15	256QAM	36	0	17.57	17.64	17.96	19.5
15	256QAM	36	20	17.80	17.68	17.90	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	17.94	17.93	17.72	
15	256QAM	75	0	17.81	17.98	17.80	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.44	22.45	22.31	24.5
10	QPSK	1	25	22.27	22.59	22.60	
10	QPSK	1	49	22.50	22.34	22.42	
10	QPSK	25	0	21.40	21.46	21.40	23.5
10	QPSK	25	12	21.49	21.55	21.50	
10	QPSK	25	25	21.50	21.68	21.61	
10	QPSK	50	0	21.43	21.46	21.44	
10	16QAM	1	0	21.76	21.53	21.68	23.5
10	16QAM	1	25	21.76	22.02	21.88	
10	16QAM	1	49	21.70	21.88	21.82	
10	16QAM	25	0	20.49	20.51	20.46	22.5
10	16QAM	25	12	20.36	20.60	20.55	
10	16QAM	25	25	20.57	20.57	20.70	
10	16QAM	50	0	20.38	20.48	20.51	
10	64QAM	1	0	20.35	20.37	20.64	22.5
10	64QAM	1	25	20.59	20.79	20.80	
10	64QAM	1	49	20.65	20.50	20.64	
10	64QAM	25	0	19.80	19.88	19.83	21.5
10	64QAM	25	12	19.64	19.71	19.94	
10	64QAM	25	25	19.75	19.73	19.84	
10	64QAM	50	0	19.57	19.70	19.77	
10	256QAM	1	0	17.72	17.63	18.02	19.5
10	256QAM	1	25	17.87	17.56	17.88	
10	256QAM	1	49	17.72	17.69	18.00	
10	256QAM	25	0	17.75	17.73	18.02	19.5
10	256QAM	25	12	17.78	17.56	17.91	
10	256QAM	25	25	18.01	17.98	17.88	
10	256QAM	50	0	17.80	17.80	17.70	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.39	22.40	22.47	24.5
5	QPSK	1	12	22.19	22.62	22.55	
5	QPSK	1	24	22.55	22.24	22.45	
5	QPSK	12	0	21.25	21.48	21.50	23.5
5	QPSK	12	7	21.44	21.52	21.53	
5	QPSK	12	13	21.46	21.60	21.47	
5	QPSK	25	0	21.47	21.47	21.45	
5	16QAM	1	0	21.73	21.55	21.71	23.5
5	16QAM	1	12	21.78	21.89	21.76	
5	16QAM	1	24	21.70	21.89	21.71	
5	16QAM	12	0	20.45	20.46	20.60	22.5
5	16QAM	12	7	20.42	20.48	20.56	
5	16QAM	12	13	20.44	20.59	20.82	
5	16QAM	25	0	20.38	20.51	20.65	
5	64QAM	1	0	20.32	20.45	20.74	22.5
5	64QAM	1	12	20.51	20.92	20.79	
5	64QAM	1	24	20.68	20.47	20.55	
5	64QAM	12	0	19.81	19.73	19.79	21.5
5	64QAM	12	7	19.63	19.72	19.75	
5	64QAM	12	13	19.64	19.67	19.71	
5	64QAM	25	0	19.58	19.78	19.72	
5	256QAM	1	0	17.61	17.75	17.97	19.5
5	256QAM	1	12	17.76	17.64	18.05	
5	256QAM	1	24	17.84	17.65	18.01	
5	256QAM	12	0	17.65	17.73	18.07	19.5
5	256QAM	12	7	17.96	17.60	18.05	
5	256QAM	12	13	17.82	17.95	17.79	
5	256QAM	25	0	17.93	17.97	17.74	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.58	22.47	22.30	24.5
3	QPSK	1	8	22.15	22.66	22.47	
3	QPSK	1	14	22.64	22.37	22.36	
3	QPSK	8	0	21.26	21.56	21.42	23.5
3	QPSK	8	4	21.48	21.40	21.59	
3	QPSK	8	7	21.57	21.57	21.57	
3	QPSK	15	0	21.55	21.47	21.57	
3	16QAM	1	0	21.75	21.66	21.76	23.5
3	16QAM	1	8	21.68	22.05	21.84	
3	16QAM	1	14	21.66	22.00	21.78	
3	16QAM	8	0	20.48	20.37	20.55	22.5
3	16QAM	8	4	20.49	20.62	20.75	
3	16QAM	8	7	20.49	20.53	20.80	
3	16QAM	15	0	20.48	20.48	20.54	
3	64QAM	1	0	20.34	20.45	20.63	22.5
3	64QAM	1	8	20.53	20.76	20.80	
3	64QAM	1	14	20.55	20.51	20.47	
3	64QAM	8	0	19.77	19.74	19.95	21.5
3	64QAM	8	4	19.51	19.67	19.76	
3	64QAM	8	7	19.73	19.60	19.84	
3	64QAM	15	0	19.63	19.69	19.78	
3	256QAM	1	0	17.79	17.70	17.88	19.5
3	256QAM	1	8	17.77	17.68	17.92	
3	256QAM	1	14	17.76	17.55	18.01	
3	256QAM	8	0	17.60	17.68	18.03	19.5
3	256QAM	8	4	17.89	17.62	17.91	
3	256QAM	8	7	17.94	18.11	17.79	
3	256QAM	15	0	17.96	17.91	17.82	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.40	22.37	22.32	24.5
1.4	QPSK	1	3	22.29	22.70	22.49	
1.4	QPSK	1	5	22.51	22.30	22.50	
1.4	QPSK	3	0	22.51	22.34	22.33	
1.4	QPSK	3	1	22.19	22.69	22.67	
1.4	QPSK	3	3	22.61	22.54	22.52	23.5
1.4	QPSK	6	0	21.71	21.65	21.63	
1.4	16QAM	1	0	21.72	21.61	21.59	23.5
1.4	16QAM	1	3	21.76	21.97	21.89	
1.4	16QAM	1	5	21.67	22.02	21.72	
1.4	16QAM	3	0	21.63	21.66	21.73	
1.4	16QAM	3	1	21.60	21.91	21.74	
1.4	16QAM	3	3	21.80	21.99	21.72	
1.4	16QAM	6	0	20.56	20.52	20.56	22.5
1.4	64QAM	1	0	20.51	20.55	20.83	22.5
1.4	64QAM	1	3	20.51	20.85	20.71	
1.4	64QAM	1	5	20.65	20.48	20.46	
1.4	64QAM	3	0	20.62	20.77	20.78	
1.4	64QAM	3	1	20.72	20.52	20.64	
1.4	64QAM	3	3	20.61	20.88	20.79	21.5
1.4	64QAM	6	0	19.77	19.76	19.95	
1.4	256QAM	1	0	17.62	17.81	17.93	19.5
1.4	256QAM	1	3	17.78	17.57	18.04	
1.4	256QAM	1	5	17.81	17.62	17.97	
1.4	256QAM	3	0	17.63	17.77	18.02	
1.4	256QAM	3	1	17.95	17.66	17.91	
1.4	256QAM	3	3	17.90	17.94	17.90	
1.4	256QAM	6	0	17.78	17.82	17.74	19.5



FDD LTE Band 4_Ant 4_State 0/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.50	22.63	22.56	24.5
20	QPSK	1	49	22.70	22.74	22.61	
20	QPSK	1	99	22.60	22.69	22.55	
20	QPSK	50	0	21.51	21.66	21.61	23.5
20	QPSK	50	24	21.57	21.60	21.58	
20	QPSK	50	50	21.54	21.63	21.61	
20	QPSK	100	0	21.54	21.60	21.53	23.5
20	16QAM	1	0	21.59	21.63	21.63	
20	16QAM	1	49	21.89	21.88	21.90	
20	16QAM	1	99	21.57	21.61	21.57	22.5
20	16QAM	50	0	20.68	20.68	20.53	
20	16QAM	50	24	20.68	20.69	20.59	
20	16QAM	50	50	20.55	20.66	20.64	22.5
20	16QAM	100	0	20.72	20.77	20.62	
20	64QAM	1	0	20.56	20.60	20.60	
20	64QAM	1	49	20.87	20.98	20.94	22.5
20	64QAM	1	99	20.58	20.70	20.69	
20	64QAM	50	0	19.60	19.52	19.59	
20	64QAM	50	24	19.62	19.68	19.66	21.5
20	64QAM	50	50	19.66	19.55	19.55	
20	64QAM	100	0	19.52	19.63	19.58	
20	256QAM	1	0	17.74	17.79	17.73	19.5
20	256QAM	1	49	17.99	17.98	17.91	
20	256QAM	1	99	17.82	17.95	17.86	
20	256QAM	50	0	17.87	17.96	17.81	19.5
20	256QAM	50	24	17.89	17.96	17.85	
20	256QAM	50	50	17.92	17.99	17.95	
20	256QAM	100	0	17.97	17.91	17.89	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.50	22.61	22.55	24.5
15	QPSK	1	37	22.62	22.70	22.61	
15	QPSK	1	74	22.53	22.64	22.51	
15	QPSK	36	0	21.52	21.63	21.55	23.5
15	QPSK	36	20	21.50	21.51	21.55	
15	QPSK	36	39	21.50	21.55	21.53	
15	QPSK	75	0	21.55	21.51	21.51	23.5
15	16QAM	1	0	21.50	21.52	21.56	
15	16QAM	1	37	21.88	21.69	21.70	
15	16QAM	1	74	21.56	21.50	21.37	22.5
15	16QAM	36	0	20.52	20.50	20.53	
15	16QAM	36	20	20.56	20.69	20.51	
15	16QAM	36	39	20.56	20.50	20.53	22.5
15	16QAM	75	0	20.70	20.70	20.60	
15	64QAM	1	0	20.52	20.46	20.57	
15	64QAM	1	37	20.70	20.80	20.80	22.5
15	64QAM	1	74	20.43	20.55	20.61	
15	64QAM	36	0	19.57	19.33	19.53	
15	64QAM	36	20	19.58	19.52	19.66	21.5
15	64QAM	36	39	19.66	19.49	19.55	
15	64QAM	75	0	19.45	19.43	19.39	
15	256QAM	1	0	17.62	17.64	17.66	19.5
15	256QAM	1	37	17.91	17.89	17.85	
15	256QAM	1	74	17.82	17.81	17.68	
15	256QAM	36	0	17.81	17.92	17.73	19.5
15	256QAM	36	20	17.82	17.87	17.81	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	17.82	17.85	17.93	
15	256QAM	75	0	17.83	17.85	17.72	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.50	22.51	22.53	24.5
10	QPSK	1	25	22.59	22.64	22.51	
10	QPSK	1	49	22.51	22.66	22.54	
10	QPSK	25	0	21.50	21.64	21.61	23.5
10	QPSK	25	12	21.52	21.54	21.58	
10	QPSK	25	25	21.50	21.56	21.50	
10	QPSK	50	0	21.50	21.58	21.51	
10	16QAM	1	0	21.51	21.53	21.62	23.5
10	16QAM	1	25	21.73	21.76	21.82	
10	16QAM	1	49	21.50	21.55	21.53	
10	16QAM	25	0	20.59	20.52	20.36	22.5
10	16QAM	25	12	20.53	20.58	20.56	
10	16QAM	25	25	20.54	20.52	20.54	
10	16QAM	50	0	20.63	20.73	20.50	
10	64QAM	1	0	20.53	20.54	20.59	22.5
10	64QAM	1	25	20.81	20.78	20.88	
10	64QAM	1	49	20.57	20.56	20.59	
10	64QAM	25	0	19.41	19.50	19.47	21.5
10	64QAM	25	12	19.42	19.65	19.63	
10	64QAM	25	25	19.57	19.41	19.35	
10	64QAM	50	0	19.52	19.59	19.40	
10	256QAM	1	0	17.72	17.64	17.59	19.5
10	256QAM	1	25	17.86	17.90	17.76	
10	256QAM	1	49	17.82	17.82	17.68	
10	256QAM	25	0	17.74	17.91	17.76	19.5
10	256QAM	25	12	17.86	17.92	17.69	
10	256QAM	25	25	17.73	17.81	17.92	
10	256QAM	50	0	17.86	17.84	17.73	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.51	22.51	22.51	24.5
5	QPSK	1	12	22.58	22.69	22.61	
5	QPSK	1	24	22.52	22.61	22.52	
5	QPSK	12	0	21.52	21.50	21.56	23.5
5	QPSK	12	7	21.51	21.60	21.52	
5	QPSK	12	13	21.50	21.56	21.54	
5	QPSK	25	0	21.53	21.56	21.50	
5	16QAM	1	0	21.55	21.61	21.54	23.5
5	16QAM	1	12	21.75	21.71	21.79	
5	16QAM	1	24	21.52	21.55	21.51	
5	16QAM	12	0	20.59	20.56	20.50	22.5
5	16QAM	12	7	20.52	20.64	20.52	
5	16QAM	12	13	20.51	20.53	20.51	
5	16QAM	25	0	20.68	20.77	20.57	
5	64QAM	1	0	20.50	20.54	20.51	22.5
5	64QAM	1	12	20.82	20.80	20.81	
5	64QAM	1	24	20.54	20.57	20.58	
5	64QAM	12	0	19.49	19.49	19.51	21.5
5	64QAM	12	7	19.55	19.53	19.63	
5	64QAM	12	13	19.63	19.51	19.55	
5	64QAM	25	0	19.37	19.57	19.50	
5	256QAM	1	0	17.54	17.79	17.54	19.5
5	256QAM	1	12	17.90	17.96	17.78	
5	256QAM	1	24	17.63	17.79	17.66	
5	256QAM	12	0	17.69	17.88	17.74	19.5
5	256QAM	12	7	17.71	17.79	17.65	
5	256QAM	12	13	17.81	17.83	17.93	
5	256QAM	25	0	17.88	17.81	17.84	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.50	22.59	22.52	24.5
3	QPSK	1	8	22.67	22.72	22.50	
3	QPSK	1	14	22.51	22.57	22.53	
3	QPSK	8	0	21.50	21.53	21.53	23.5
3	QPSK	8	4	21.50	21.55	21.59	
3	QPSK	8	7	21.51	21.52	21.54	
3	QPSK	15	0	21.53	21.51	21.55	
3	16QAM	1	0	21.50	21.52	21.57	23.5
3	16QAM	1	8	21.88	21.73	21.83	
3	16QAM	1	14	21.52	21.56	21.54	
3	16QAM	8	0	20.62	20.57	20.54	22.5
3	16QAM	8	4	20.67	20.56	20.55	
3	16QAM	8	7	20.51	20.62	20.57	
3	16QAM	15	0	20.65	20.69	20.53	
3	64QAM	1	0	20.51	20.53	20.51	
3	64QAM	1	8	20.80	20.93	20.76	22.5
3	64QAM	1	14	20.52	20.63	20.60	
3	64QAM	8	0	19.55	19.52	19.57	
3	64QAM	8	4	19.51	19.58	19.57	21.5
3	64QAM	8	7	19.54	19.55	19.54	
3	64QAM	15	0	19.52	19.51	19.54	
3	256QAM	1	0	17.69	17.76	17.69	
3	256QAM	1	8	17.83	17.84	17.83	19.5
3	256QAM	1	14	17.65	17.80	17.82	
3	256QAM	8	0	17.86	17.84	17.68	19.5
3	256QAM	8	4	17.73	17.91	17.72	
3	256QAM	8	7	17.74	17.93	17.87	
3	256QAM	15	0	17.87	17.78	17.80	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.51	22.53	22.51	24.5
1.4	QPSK	1	3	22.54	22.68	22.50	
1.4	QPSK	1	5	22.52	22.66	22.54	
1.4	QPSK	3	0	22.50	22.51	22.50	
1.4	QPSK	3	1	22.64	22.55	22.51	
1.4	QPSK	3	3	22.59	22.60	22.51	23.5
1.4	QPSK	6	0	21.50	21.54	21.53	
1.4	16QAM	1	0	21.52	21.50	21.51	23.5
1.4	16QAM	1	3	21.53	21.59	21.52	
1.4	16QAM	1	5	21.51	21.55	21.50	
1.4	16QAM	3	0	21.60	21.61	21.58	
1.4	16QAM	3	1	21.65	21.65	21.65	
1.4	16QAM	3	3	21.63	21.64	21.61	
1.4	16QAM	6	0	20.52	20.51	20.53	22.5
1.4	64QAM	1	0	20.52	20.57	20.53	22.5
1.4	64QAM	1	3	20.56	20.56	20.51	
1.4	64QAM	1	5	20.51	20.53	20.51	
1.4	64QAM	3	0	20.62	20.53	20.49	
1.4	64QAM	3	1	20.56	20.56	20.42	
1.4	64QAM	3	3	20.55	20.52	20.62	21.5
1.4	64QAM	6	0	19.55	19.68	19.61	
1.4	256QAM	1	0	17.78	17.78	17.78	19.5
1.4	256QAM	1	3	17.88	17.88	17.82	
1.4	256QAM	1	5	17.76	17.84	17.73	
1.4	256QAM	3	0	17.72	17.81	17.68	
1.4	256QAM	3	1	17.83	17.86	17.81	
1.4	256QAM	3	3	17.86	17.85	17.86	
1.4	256QAM	6	0	17.85	17.84	17.89	19.5



FDD LTE Band 4_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.50	22.63	22.56	23
20	QPSK	1	49	22.70	22.74	22.61	
20	QPSK	1	99	22.60	22.69	22.55	
20	QPSK	50	0	21.51	21.66	21.61	22
20	QPSK	50	24	21.57	21.60	21.58	
20	QPSK	50	50	21.62	21.63	21.61	
20	QPSK	100	0	21.54	21.60	21.53	22
20	16QAM	1	0	21.59	21.63	21.63	
20	16QAM	1	49	21.89	21.88	21.90	
20	16QAM	1	99	21.57	21.61	21.57	21
20	16QAM	50	0	20.68	20.68	20.53	
20	16QAM	50	24	20.68	20.69	20.59	
20	16QAM	50	50	20.55	20.66	20.64	21
20	16QAM	100	0	20.72	20.77	20.62	
20	64QAM	1	0	20.56	20.60	20.60	
20	64QAM	1	49	20.87	20.98	20.94	21
20	64QAM	1	99	20.58	20.70	20.69	
20	64QAM	50	0	19.60	19.52	19.59	
20	64QAM	50	24	19.62	19.68	19.66	20
20	64QAM	50	50	19.66	19.55	19.55	
20	64QAM	100	0	19.52	19.63	19.58	
20	256QAM	1	0	17.74	17.79	17.73	18
20	256QAM	1	49	17.99	17.98	17.91	
20	256QAM	1	99	17.82	17.95	17.86	
20	256QAM	50	0	17.87	17.96	17.81	18
20	256QAM	50	24	17.89	17.96	17.85	
20	256QAM	50	50	17.92	17.99	17.95	
20	256QAM	100	0	17.97	17.91	17.89	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.52	22.57	22.56	23
15	QPSK	1	37	22.60	22.69	22.55	
15	QPSK	1	74	22.56	22.57	22.57	
15	QPSK	36	0	21.56	21.71	21.60	22
15	QPSK	36	20	21.56	21.68	21.68	
15	QPSK	36	39	21.71	21.73	21.69	
15	QPSK	75	0	21.60	21.56	21.58	22
15	16QAM	1	0	21.67	21.62	21.73	
15	16QAM	1	37	21.88	21.79	21.86	
15	16QAM	1	74	21.61	21.70	21.56	21
15	16QAM	36	0	20.69	20.65	20.50	
15	16QAM	36	20	20.70	20.66	20.65	
15	16QAM	36	39	20.59	20.63	20.66	21
15	16QAM	75	0	20.71	20.85	20.60	
15	64QAM	1	0	20.54	20.56	20.56	
15	64QAM	1	37	20.94	20.94	21.00	21
15	64QAM	1	74	20.66	20.68	20.67	
15	64QAM	36	0	19.58	19.59	19.64	
15	64QAM	36	20	19.65	19.78	19.62	20
15	64QAM	36	39	19.65	19.60	19.62	
15	64QAM	75	0	19.59	19.60	19.53	
15	256QAM	1	0	17.76	17.84	17.75	18
15	256QAM	1	37	17.81	17.86	17.79	
15	256QAM	1	74	17.86	17.94	17.84	
15	256QAM	36	0	17.73	17.93	17.68	18
15	256QAM	36	20	17.95	17.95	17.91	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	17.77	17.98	17.92	
15	256QAM	75	0	17.95	17.97	17.81	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.59	22.50	22.52	23
10	QPSK	1	25	22.70	22.70	22.58	
10	QPSK	1	49	22.55	22.58	22.54	
10	QPSK	25	0	21.53	21.51	21.56	22
10	QPSK	25	12	21.57	21.51	21.50	
10	QPSK	25	25	21.61	21.59	21.50	
10	QPSK	50	0	21.56	21.58	21.50	
10	16QAM	1	0	21.67	21.69	21.68	22
10	16QAM	1	25	21.88	21.89	21.80	
10	16QAM	1	49	21.56	21.57	21.63	
10	16QAM	25	0	20.78	20.76	20.62	21
10	16QAM	25	12	20.65	20.69	20.64	
10	16QAM	25	25	20.65	20.70	20.69	
10	16QAM	50	0	20.80	20.87	20.57	
10	64QAM	1	0	20.54	20.70	20.62	21
10	64QAM	1	25	20.96	20.99	20.91	
10	64QAM	1	49	20.56	20.79	20.67	
10	64QAM	25	0	19.68	19.60	19.56	20
10	64QAM	25	12	19.51	19.59	19.66	
10	64QAM	25	25	19.52	19.55	19.50	
10	64QAM	50	0	19.52	19.54	19.52	
10	256QAM	1	0	17.59	17.69	17.72	18
10	256QAM	1	25	17.76	17.81	17.70	
10	256QAM	1	49	17.73	17.83	17.85	
10	256QAM	25	0	17.75	17.85	17.66	18
10	256QAM	25	12	17.93	18.00	17.94	
10	256QAM	25	25	17.92	17.92	17.89	
10	256QAM	50	0	17.88	17.90	17.86	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.59	22.51	22.54	23
5	QPSK	1	12	22.55	22.65	22.52	
5	QPSK	1	24	22.59	22.55	22.55	
5	QPSK	12	0	21.56	21.76	21.61	22
5	QPSK	12	7	21.55	21.58	21.58	
5	QPSK	12	13	21.65	21.61	21.58	
5	QPSK	25	0	21.64	21.58	21.55	
5	16QAM	1	0	21.60	21.66	21.60	22
5	16QAM	1	12	21.88	21.89	21.88	
5	16QAM	1	24	21.67	21.67	21.64	
5	16QAM	12	0	20.71	20.75	20.60	21
5	16QAM	12	7	20.68	20.71	20.64	
5	16QAM	12	13	20.62	20.73	20.67	
5	16QAM	25	0	20.78	20.82	20.71	
5	64QAM	1	0	20.57	20.59	20.67	21
5	64QAM	1	12	20.97	20.98	20.97	
5	64QAM	1	24	20.58	20.73	20.74	
5	64QAM	12	0	19.57	19.57	19.57	20
5	64QAM	12	7	19.70	19.69	19.63	
5	64QAM	12	13	19.66	19.61	19.54	
5	64QAM	25	0	19.50	19.64	19.68	
5	256QAM	1	0	17.73	17.83	17.83	18
5	256QAM	1	12	17.89	17.96	17.80	
5	256QAM	1	24	17.75	17.87	17.80	
5	256QAM	12	0	17.77	17.90	17.75	18
5	256QAM	12	7	17.98	17.96	17.91	
5	256QAM	12	13	17.89	17.88	17.83	
5	256QAM	25	0	17.92	17.86	17.84	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.56	22.53	22.51	23
3	QPSK	1	8	22.58	22.63	22.59	
3	QPSK	1	14	22.54	22.64	22.54	
3	QPSK	8	0	21.54	21.57	21.56	22
3	QPSK	8	4	21.56	21.55	21.50	
3	QPSK	8	7	21.57	21.55	21.55	
3	QPSK	15	0	21.64	21.63	21.59	
3	16QAM	1	0	21.62	21.66	21.70	22
3	16QAM	1	8	21.71	21.74	21.70	
3	16QAM	1	14	21.54	21.71	21.57	
3	16QAM	8	0	20.68	20.67	20.58	21
3	16QAM	8	4	20.71	20.76	20.69	
3	16QAM	8	7	20.62	20.64	20.70	
3	16QAM	15	0	20.70	20.84	20.63	
3	64QAM	1	0	20.51	20.63	20.59	
3	64QAM	1	8	20.95	20.99	20.94	21
3	64QAM	1	14	20.54	20.71	20.75	
3	64QAM	8	0	19.70	19.60	19.55	
3	64QAM	8	4	19.60	19.70	19.62	20
3	64QAM	8	7	19.72	19.64	19.54	
3	64QAM	15	0	19.52	19.64	19.62	
3	256QAM	1	0	17.84	17.86	17.81	
3	256QAM	1	8	17.88	17.89	17.76	18
3	256QAM	1	14	17.83	17.81	17.95	
3	256QAM	8	0	17.97	17.93	17.88	18
3	256QAM	8	4	17.95	17.81	17.89	
3	256QAM	8	7	17.90	17.97	17.95	
3	256QAM	15	0	17.82	17.76	17.84	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.58	22.60	22.55	23
1.4	QPSK	1	3	22.59	22.64	22.55	
1.4	QPSK	1	5	22.56	22.69	22.57	
1.4	QPSK	3	0	22.51	22.54	22.57	
1.4	QPSK	3	1	22.55	22.53	22.53	
1.4	QPSK	3	3	22.59	22.55	22.59	22
1.4	QPSK	6	0	21.59	21.66	21.57	
1.4	16QAM	1	0	21.61	21.63	21.59	22
1.4	16QAM	1	3	21.77	21.79	21.86	
1.4	16QAM	1	5	21.57	21.65	21.59	
1.4	16QAM	3	0	21.75	21.74	21.58	
1.4	16QAM	3	1	21.65	21.71	21.65	
1.4	16QAM	3	3	21.63	21.64	21.72	
1.4	16QAM	6	0	20.75	20.87	20.57	21
1.4	64QAM	1	0	20.62	20.68	20.57	
1.4	64QAM	1	3	20.88	20.99	21.04	21
1.4	64QAM	1	5	20.61	20.79	20.77	
1.4	64QAM	3	0	20.63	20.57	20.57	
1.4	64QAM	3	1	20.72	20.77	20.75	
1.4	64QAM	3	3	20.68	20.50	20.54	
1.4	64QAM	6	0	19.55	19.68	19.61	20
1.4	256QAM	1	0	17.78	17.78	17.78	
1.4	256QAM	1	3	17.99	17.99	17.92	18
1.4	256QAM	1	5	17.76	17.94	17.73	
1.4	256QAM	3	0	17.72	17.81	17.68	
1.4	256QAM	3	1	17.93	17.96	17.91	
1.4	256QAM	3	3	17.86	17.99	17.93	
1.4	256QAM	6	0	17.95	17.94	17.89	



FDD LTE Band 4_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.67	18.63	18.38	20
20	QPSK	1	49	18.81	19.15	18.34	
20	QPSK	1	99	18.69	18.45	18.00	
20	QPSK	50	0	17.52	17.42	17.17	19
20	QPSK	50	24	17.55	17.31	17.15	
20	QPSK	50	50	17.40	17.26	17.11	
20	QPSK	100	0	17.45	17.26	17.11	19
20	16QAM	1	0	18.61	18.44	18.32	
20	16QAM	1	49	18.39	18.52	18.13	
20	16QAM	1	99	18.66	18.32	17.95	18
20	16QAM	50	0	17.57	17.38	17.15	
20	16QAM	50	24	17.56	17.34	17.11	
20	16QAM	50	50	17.43	17.25	16.99	18
20	16QAM	100	0	17.43	17.27	17.10	
20	64QAM	1	0	17.65	17.49	17.44	
20	64QAM	1	49	17.72	17.94	17.30	18
20	64QAM	1	99	17.63	17.27	17.15	
20	64QAM	50	0	16.51	16.40	16.13	
20	64QAM	50	24	16.52	16.28	16.16	17
20	64QAM	50	50	16.36	16.26	15.95	
20	64QAM	100	0	16.49	16.28	16.15	
20	256QAM	1	0	14.61	14.56	14.43	15
20	256QAM	1	49	14.59	14.40	14.21	
20	256QAM	1	99	14.28	14.28	13.95	
20	256QAM	50	0	14.52	14.36	14.10	15
20	256QAM	50	24	14.56	14.35	14.07	
20	256QAM	50	50	14.36	14.22	13.96	
20	256QAM	100	0	14.47	14.26	14.13	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.47	18.45	18.35	20
15	QPSK	1	37	18.64	18.96	18.26	
15	QPSK	1	74	18.55	18.29	17.85	
15	QPSK	36	0	17.35	17.23	17.00	19
15	QPSK	36	20	17.48	17.16	17.00	
15	QPSK	36	39	17.26	17.07	16.94	
15	QPSK	75	0	17.26	17.09	17.07	19
15	16QAM	1	0	18.60	18.35	18.12	
15	16QAM	1	37	18.39	18.32	17.96	
15	16QAM	1	74	18.65	18.31	17.93	18
15	16QAM	36	0	17.56	17.24	17.13	
15	16QAM	36	20	17.41	17.30	16.98	
15	16QAM	36	39	17.27	17.23	16.91	18
15	16QAM	75	0	17.39	17.20	16.98	
15	64QAM	1	0	17.54	17.43	17.38	
15	64QAM	1	37	17.63	17.93	17.22	18
15	64QAM	1	74	17.61	17.20	17.12	
15	64QAM	36	0	16.37	16.34	16.11	
15	64QAM	36	20	16.48	16.21	16.10	17
15	64QAM	36	39	16.19	16.08	15.82	
15	64QAM	75	0	16.32	16.13	16.14	
15	256QAM	1	0	14.44	14.46	14.40	15
15	256QAM	1	37	14.47	14.34	14.01	
15	256QAM	1	74	14.12	14.11	13.84	
15	256QAM	36	0	14.32	14.36	13.99	15
15	256QAM	36	20	14.46	14.27	13.95	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	14.23	14.18	13.83	
15	256QAM	75	0	14.30	14.08	14.01	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.52	18.56	18.38	20
10	QPSK	1	25	18.76	19.13	18.33	
10	QPSK	1	49	18.67	18.43	17.99	
10	QPSK	25	0	17.38	17.24	17.08	19
10	QPSK	25	12	17.37	17.21	17.08	
10	QPSK	25	25	17.31	17.24	17.05	
10	QPSK	50	0	17.25	17.10	17.01	
10	16QAM	1	0	18.59	18.26	18.27	19
10	16QAM	1	25	18.20	18.40	18.09	
10	16QAM	1	49	18.47	18.28	17.75	
10	16QAM	25	0	17.57	17.31	17.02	18
10	16QAM	25	12	17.45	17.17	16.92	
10	16QAM	25	25	17.42	17.19	16.96	
10	16QAM	50	0	17.37	17.26	16.93	
10	64QAM	1	0	17.49	17.38	17.30	18
10	64QAM	1	25	17.58	17.94	17.25	
10	64QAM	1	49	17.47	17.16	17.14	
10	64QAM	25	0	16.43	16.27	16.04	17
10	64QAM	25	12	16.40	16.23	16.02	
10	64QAM	25	25	16.35	16.24	15.92	
10	64QAM	50	0	16.47	16.14	16.06	
10	256QAM	1	0	14.44	14.36	14.24	15
10	256QAM	1	25	14.44	14.21	14.02	
10	256QAM	1	49	14.13	14.16	13.83	
10	256QAM	25	0	14.38	14.21	14.05	15
10	256QAM	25	12	14.50	14.22	13.90	
10	256QAM	25	25	14.16	14.20	13.86	
10	256QAM	50	0	14.28	14.20	14.03	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.67	18.62	18.30	20
5	QPSK	1	12	18.74	19.13	18.20	
5	QPSK	1	24	18.69	18.34	17.99	
5	QPSK	12	0	17.40	17.36	17.14	19
5	QPSK	12	7	17.38	17.17	17.06	
5	QPSK	12	13	17.31	17.22	16.98	
5	QPSK	25	0	17.30	17.06	17.09	
5	16QAM	1	0	18.54	18.44	18.15	19
5	16QAM	1	12	18.20	18.38	18.02	
5	16QAM	1	24	18.48	18.13	17.84	
5	16QAM	12	0	17.54	17.26	17.02	18
5	16QAM	12	7	17.36	17.18	17.07	
5	16QAM	12	13	17.43	17.19	16.84	
5	16QAM	25	0	17.26	17.27	17.01	
5	64QAM	1	0	17.51	17.29	17.26	18
5	64QAM	1	12	17.67	17.82	17.11	
5	64QAM	1	24	17.45	17.12	17.02	
5	64QAM	12	0	16.51	16.20	15.94	17
5	64QAM	12	7	16.41	16.28	16.03	
5	64QAM	12	13	16.24	16.11	15.79	
5	64QAM	25	0	16.44	16.23	15.98	
5	256QAM	1	0	14.53	14.51	14.33	15
5	256QAM	1	12	14.56	14.29	14.11	
5	256QAM	1	24	14.25	14.16	13.91	
5	256QAM	12	0	14.44	14.36	13.93	15
5	256QAM	12	7	14.50	14.19	14.01	
5	256QAM	12	13	14.28	14.20	13.86	
5	256QAM	25	0	14.30	14.24	13.93	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.49	18.44	18.28	20
3	QPSK	1	8	18.71	19.06	18.26	
3	QPSK	1	14	18.69	18.45	17.91	
3	QPSK	8	0	17.48	17.26	17.07	19
3	QPSK	8	4	17.49	17.30	17.11	
3	QPSK	8	7	17.36	17.12	17.02	
3	QPSK	15	0	17.37	17.14	16.94	
3	16QAM	1	0	18.53	18.41	18.17	19
3	16QAM	1	8	18.34	18.37	18.00	
3	16QAM	1	14	18.64	18.29	17.85	
3	16QAM	8	0	17.52	17.22	17.08	18
3	16QAM	8	4	17.54	17.27	17.11	
3	16QAM	8	7	17.25	17.15	16.94	
3	16QAM	15	0	17.29	17.15	17.02	
3	64QAM	1	0	17.57	17.49	17.40	18
3	64QAM	1	8	17.57	17.74	17.16	
3	64QAM	1	14	17.46	17.25	17.10	
3	64QAM	8	0	16.37	16.20	16.08	17
3	64QAM	8	4	16.38	16.16	16.04	
3	64QAM	8	7	16.35	16.21	15.90	
3	64QAM	15	0	16.42	16.28	15.96	
3	256QAM	1	0	14.43	14.38	14.33	15
3	256QAM	1	8	14.57	14.38	14.02	
3	256QAM	1	14	14.18	14.24	13.90	
3	256QAM	8	0	14.51	14.19	14.09	15
3	256QAM	8	4	14.43	14.20	13.92	
3	256QAM	8	7	14.22	14.16	13.77	
3	256QAM	15	0	14.40	14.13	14.09	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.48	18.63	18.34	20
1.4	QPSK	1	3	18.71	18.95	18.34	
1.4	QPSK	1	5	18.49	18.42	17.93	
1.4	QPSK	3	0	18.52	18.53	18.20	
1.4	QPSK	3	1	18.79	19.04	18.24	
1.4	QPSK	3	3	18.57	18.28	17.86	
1.4	QPSK	6	0	17.25	17.08	16.93	19
1.4	16QAM	1	0	17.50	17.22	17.15	19
1.4	16QAM	1	3	17.36	17.26	17.11	
1.4	16QAM	1	5	17.36	17.22	17.07	
1.4	16QAM	3	0	17.39	17.28	17.07	
1.4	16QAM	3	1	17.43	17.18	16.98	
1.4	16QAM	3	3	17.32	17.09	16.92	
1.4	16QAM	6	0	17.46	17.37	17.03	18
1.4	64QAM	1	0	17.38	17.30	17.09	18
1.4	64QAM	1	3	17.34	17.20	16.94	
1.4	64QAM	1	5	17.36	17.13	16.98	
1.4	64QAM	3	0	17.54	17.48	17.25	
1.4	64QAM	3	1	17.52	17.77	17.16	
1.4	64QAM	3	3	17.59	17.19	17.00	
1.4	64QAM	6	0	16.32	16.10	15.98	17
1.4	256QAM	1	0	14.45	14.48	14.25	15
1.4	256QAM	1	3	14.50	14.27	14.15	
1.4	256QAM	1	5	14.11	14.25	13.80	
1.4	256QAM	3	0	14.35	14.20	14.07	
1.4	256QAM	3	1	14.49	14.15	13.99	
1.4	256QAM	3	3	14.20	14.10	13.81	
1.4	256QAM	6	0	14.37	14.22	14.11	15



FDD LTE Band 5_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.80	22.91	22.82	24.5
10	QPSK	1	25	22.89	22.98	22.84	
10	QPSK	1	49	22.81	22.85	22.82	
10	QPSK	25	0	21.88	22.02	21.96	23.5
10	QPSK	25	12	21.84	21.99	21.83	
10	QPSK	25	25	21.90	21.95	21.94	
10	QPSK	50	0	21.87	22.01	21.93	
10	16QAM	1	0	22.16	22.38	22.33	23.5
10	16QAM	1	25	22.28	22.20	22.05	
10	16QAM	1	49	22.36	22.26	22.19	
10	16QAM	25	0	20.85	20.96	20.92	22.5
10	16QAM	25	12	21.02	21.01	20.95	
10	16QAM	25	25	20.91	20.98	20.95	
10	16QAM	50	0	20.95	21.05	20.84	
10	64QAM	1	0	20.87	21.00	21.01	22.5
10	64QAM	1	25	20.94	20.96	21.04	
10	64QAM	1	49	21.03	21.03	21.12	
10	64QAM	25	0	19.79	19.97	19.93	21.5
10	64QAM	25	12	19.92	20.02	19.90	
10	64QAM	25	25	19.88	20.01	19.85	
10	64QAM	50	0	19.95	20.08	19.85	
10	256QAM	1	0	17.90	17.95	17.65	19.5
10	256QAM	1	25	17.95	18.07	17.83	
10	256QAM	1	49	17.87	17.94	17.85	
10	256QAM	25	0	17.91	17.96	17.56	19.5
10	256QAM	25	12	17.91	17.96	17.76	
10	256QAM	25	25	17.87	18.05	17.81	
10	256QAM	50	0	17.99	18.00	17.91	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.78	22.81	22.69	24.5
5	QPSK	1	12	22.84	22.72	22.92	
5	QPSK	1	24	22.66	22.76	22.67	
5	QPSK	12	0	21.94	21.80	21.91	23.5
5	QPSK	12	7	21.74	21.81	21.81	
5	QPSK	12	13	21.81	21.77	21.99	
5	QPSK	25	0	21.75	21.88	21.86	
5	16QAM	1	0	21.97	22.19	22.21	23.5
5	16QAM	1	12	22.17	22.06	22.08	
5	16QAM	1	24	22.23	22.06	22.21	
5	16QAM	12	0	20.77	20.84	20.85	22.5
5	16QAM	12	7	20.91	20.96	20.88	
5	16QAM	12	13	20.89	20.81	20.84	
5	16QAM	25	0	20.82	20.81	20.79	
5	64QAM	1	0	20.65	20.92	20.84	22.5
5	64QAM	1	12	20.87	20.93	20.88	
5	64QAM	1	24	20.91	20.98	20.99	
5	64QAM	12	0	19.80	19.81	19.86	21.5
5	64QAM	12	7	19.76	19.77	19.93	
5	64QAM	12	13	19.83	19.81	19.93	
5	64QAM	25	0	19.76	19.81	19.99	
5	256QAM	1	0	17.76	17.54	17.92	19.5
5	256QAM	1	12	17.69	17.62	18.04	
5	256QAM	1	24	17.84	17.83	17.74	
5	256QAM	12	0	17.93	17.50	17.76	19.5
5	256QAM	12	7	17.79	17.69	17.81	
5	256QAM	12	13	17.78	17.63	18.01	
5	256QAM	25	0	17.96	17.75	18.05	



Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.69	22.71	22.71	24.5
3	QPSK	1	8	22.78	22.72	22.80	
3	QPSK	1	14	22.61	22.78	22.67	
3	QPSK	8	0	21.80	21.76	21.82	23.5
3	QPSK	8	4	21.90	21.81	21.78	
3	QPSK	8	7	21.68	21.83	21.92	
3	QPSK	15	0	21.72	21.76	21.90	23.5
3	16QAM	1	0	22.11	22.17	22.22	
3	16QAM	1	8	22.17	21.85	22.12	
3	16QAM	1	14	22.29	22.12	22.22	22.5
3	16QAM	8	0	20.70	20.97	20.83	
3	16QAM	8	4	20.94	20.80	20.85	
3	16QAM	8	7	20.72	20.80	20.80	22.5
3	16QAM	15	0	20.85	20.86	20.89	
3	64QAM	1	0	20.79	20.88	20.85	
3	64QAM	1	8	20.85	20.81	20.88	21.5
3	64QAM	1	14	20.94	21.03	20.99	
3	64QAM	8	0	19.83	19.78	19.70	
3	64QAM	8	4	19.94	19.77	19.97	19.5
3	64QAM	8	7	19.76	19.78	19.78	
3	64QAM	15	0	19.77	19.82	19.88	
3	256QAM	1	0	17.78	17.50	17.91	19.5
3	256QAM	1	8	17.84	17.76	18.02	
3	256QAM	1	14	17.70	17.82	17.82	
3	256QAM	8	0	17.74	17.51	17.95	19.5
3	256QAM	8	4	17.83	17.77	17.83	
3	256QAM	8	7	17.69	17.74	17.96	
3	256QAM	15	0	18.00	17.76	17.94	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.73	22.66	22.71	24.5
1.4	QPSK	1	3	22.79	22.69	22.82	
1.4	QPSK	1	5	22.69	22.86	22.87	
1.4	QPSK	3	0	22.65	22.66	22.77	23.5
1.4	QPSK	3	1	22.71	22.76	22.70	
1.4	QPSK	3	3	22.65	22.84	22.82	
1.4	QPSK	6	0	21.64	21.75	22.06	23.5
1.4	16QAM	1	0	22.03	22.23	22.40	
1.4	16QAM	1	3	22.12	21.93	22.08	
1.4	16QAM	1	5	22.34	22.14	22.14	22.5
1.4	16QAM	3	0	21.90	22.14	22.38	
1.4	16QAM	3	1	22.13	21.91	22.03	
1.4	16QAM	3	3	22.38	22.01	22.18	22.5
1.4	16QAM	6	0	20.76	20.71	20.95	
1.4	64QAM	1	0	20.77	20.83	20.89	
1.4	64QAM	1	3	20.82	21.03	21.01	21.5
1.4	64QAM	1	5	20.78	21.05	20.91	
1.4	64QAM	3	0	20.75	20.98	20.95	
1.4	64QAM	3	1	20.81	21.00	20.82	19.5
1.4	64QAM	3	3	20.94	21.11	20.94	
1.4	64QAM	6	0	19.83	19.89	19.82	
1.4	256QAM	1	0	17.92	17.58	17.99	19.5
1.4	256QAM	1	3	17.72	17.68	17.96	
1.4	256QAM	1	5	17.81	17.68	17.78	
1.4	256QAM	3	0	17.83	17.54	17.81	19.5
1.4	256QAM	3	1	17.74	17.72	17.90	
1.4	256QAM	3	3	17.69	17.75	17.99	
1.4	256QAM	6	0	17.89	17.83	17.99	19.5



FDD LTE Band 5_Ant 3_State 01/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.36	22.50	22.38	24.5
10	QPSK	1	25	22.49	22.43	22.50	
10	QPSK	1	49	22.48	22.49	22.39	
10	QPSK	25	0	21.62	21.67	21.63	23.5
10	QPSK	25	12	21.54	21.45	21.51	
10	QPSK	25	25	21.66	21.67	21.60	
10	QPSK	50	0	21.51	21.85	21.54	23.5
10	16QAM	1	0	21.91	21.70	22.03	
10	16QAM	1	25	21.94	22.23	21.90	
10	16QAM	1	49	22.14	21.86	21.68	22.5
10	16QAM	25	0	20.58	20.61	20.55	
10	16QAM	25	12	20.55	20.83	20.64	
10	16QAM	25	25	20.71	20.82	20.63	22.5
10	16QAM	50	0	20.53	20.94	20.59	
10	64QAM	1	0	20.61	21.13	20.87	
10	64QAM	1	25	20.99	21.03	20.61	21.5
10	64QAM	1	49	20.63	20.80	20.65	
10	64QAM	25	0	19.58	19.79	19.59	
10	64QAM	25	12	19.76	19.70	19.52	19.5
10	64QAM	25	25	19.74	19.86	19.69	
10	64QAM	50	0	19.52	19.77	19.68	
10	256QAM	1	0	17.90	17.69	17.78	19.5
10	256QAM	1	25	17.78	17.76	17.80	
10	256QAM	1	49	17.89	17.87	17.68	
10	256QAM	25	0	17.84	17.69	17.58	19.5
10	256QAM	25	12	17.66	18.13	18.00	
10	256QAM	25	25	18.03	17.93	17.70	
10	256QAM	50	0	17.92	17.83	17.75	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.49	22.45	22.45	24.5
5	QPSK	1	12	22.43	22.47	22.43	
5	QPSK	1	24	22.46	22.42	22.44	
5	QPSK	12	0	21.63	21.80	21.75	23.5
5	QPSK	12	7	21.69	21.57	21.63	
5	QPSK	12	13	21.65	21.67	21.69	
5	QPSK	25	0	21.57	21.62	21.75	23.5
5	16QAM	1	0	22.28	22.12	22.10	
5	16QAM	1	12	22.08	22.15	21.75	
5	16QAM	1	24	21.82	22.08	22.11	22.5
5	16QAM	12	0	20.53	20.50	20.85	
5	16QAM	12	7	20.70	20.73	20.88	
5	16QAM	12	13	20.60	20.57	20.77	22.5
5	16QAM	25	0	20.73	20.59	20.73	
5	64QAM	1	0	20.69	20.62	21.07	
5	64QAM	1	12	20.73	20.56	21.07	21.5
5	64QAM	1	24	20.94	20.76	20.58	
5	64QAM	12	0	19.68	19.52	19.63	
5	64QAM	12	7	19.57	19.68	19.82	19.5
5	64QAM	12	13	19.65	19.71	19.77	
5	64QAM	25	0	19.85	19.59	19.75	
5	256QAM	1	0	17.62	17.50	17.67	19.5
5	256QAM	1	12	17.60	17.55	17.60	
5	256QAM	1	24	17.62	17.61	17.58	
5	256QAM	12	0	17.62	17.61	17.59	19.5
5	256QAM	12	7	17.58	17.64	17.67	
5	256QAM	12	13	17.61	17.70	17.62	
5	256QAM	25	0	17.60	17.60	17.69	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.45	22.48	22.44	24.5
3	QPSK	1	8	22.46	22.48	22.46	
3	QPSK	1	14	22.46	22.45	22.42	
3	QPSK	8	0	21.64	21.65	21.77	23.5
3	QPSK	8	4	21.60	21.56	21.72	
3	QPSK	8	7	21.61	21.70	21.67	
3	QPSK	15	0	21.73	21.67	21.80	23.5
3	16QAM	1	0	22.26	22.12	22.06	
3	16QAM	1	8	21.95	22.14	21.91	
3	16QAM	1	14	21.95	21.96	22.01	22.5
3	16QAM	8	0	20.69	20.60	20.70	
3	16QAM	8	4	20.60	20.64	20.83	
3	16QAM	8	7	20.77	20.74	20.73	22.5
3	16QAM	15	0	20.62	20.76	20.73	
3	64QAM	1	0	20.75	20.75	21.17	
3	64QAM	1	8	20.78	20.67	20.93	21.5
3	64QAM	1	14	20.86	20.80	20.63	
3	64QAM	8	0	19.63	19.54	19.60	
3	64QAM	8	4	19.63	19.76	19.73	19.5
3	64QAM	8	7	19.73	19.62	19.69	
3	64QAM	15	0	19.81	19.62	19.83	
3	256QAM	1	0	17.53	17.54	17.63	19.5
3	256QAM	1	8	17.57	17.63	17.68	
3	256QAM	1	14	17.63	17.61	17.67	
3	256QAM	8	0	17.57	17.50	17.62	19.5
3	256QAM	8	4	17.63	17.58	17.79	
3	256QAM	8	7	17.56	17.62	17.58	
3	256QAM	15	0	17.60	17.63	17.53	19.5
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.31	22.33	22.30	24.5
1.4	QPSK	1	3	22.35	22.38	22.38	
1.4	QPSK	1	5	22.32	22.31	22.30	
1.4	QPSK	3	0	22.44	22.47	22.39	
1.4	QPSK	3	1	22.42	22.44	22.45	
1.4	QPSK	3	3	22.34	22.47	22.42	23.5
1.4	QPSK	6	0	21.64	21.74	21.80	
1.4	16QAM	1	0	22.29	22.23	21.97	23.5
1.4	16QAM	1	3	22.01	22.04	21.91	
1.4	16QAM	1	5	21.80	22.11	22.03	
1.4	16QAM	3	0	22.19	22.08	22.02	
1.4	16QAM	3	1	21.93	22.15	21.86	
1.4	16QAM	3	3	21.91	22.09	22.03	22.5
1.4	16QAM	6	0	20.65	20.65	20.70	
1.4	64QAM	1	0	20.65	20.71	21.00	22.5
1.4	64QAM	1	3	20.79	20.72	20.94	
1.4	64QAM	1	5	20.75	20.71	20.63	
1.4	64QAM	3	0	20.60	20.55	21.04	
1.4	64QAM	3	1	20.63	20.54	21.08	
1.4	64QAM	3	3	20.89	20.74	20.63	21.5
1.4	64QAM	6	0	19.71	19.64	19.70	
1.4	256QAM	1	0	17.64	17.58	17.59	19.5
1.4	256QAM	1	3	17.64	17.52	17.64	
1.4	256QAM	1	5	17.55	17.66	17.73	
1.4	256QAM	3	0	17.64	17.50	17.59	
1.4	256QAM	3	1	17.60	17.56	17.67	
1.4	256QAM	3	3	17.50	17.62	17.50	19.5
1.4	256QAM	6	0	17.57	17.61	17.71	



FDD LTE Band 5_Ant 3_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	18.59	17.79	17.48	19.5
10	QPSK	1	25	18.58	17.76	17.82	
10	QPSK	1	49	18.47	17.71	17.69	
10	QPSK	25	0	17.63	17.77	17.64	18.5
10	QPSK	25	12	17.69	16.62	16.60	
10	QPSK	25	25	17.69	16.60	16.54	
10	QPSK	50	0	17.65	16.63	16.56	
10	16QAM	1	0	18.03	16.59	16.56	18.5
10	16QAM	1	25	18.05	17.64	17.62	
10	16QAM	1	49	17.97	17.61	17.58	
10	16QAM	25	0	16.70	17.56	17.51	17.5
10	16QAM	25	12	16.80	16.62	16.63	
10	16QAM	25	25	16.70	16.57	16.54	
10	16QAM	50	0	16.68	16.64	16.59	
10	64QAM	1	0	17.61	16.55	16.54	17.5
10	64QAM	1	25	16.85	16.67	16.56	
10	64QAM	1	49	16.84	16.72	16.61	
10	64QAM	25	0	15.65	16.54	16.57	16.5
10	64QAM	25	12	15.69	15.61	15.51	
10	64QAM	25	25	15.68	15.55	15.55	
10	64QAM	50	0	15.71	15.60	15.54	
10	256QAM	1	0	13.65	15.54	15.53	14.5
10	256QAM	1	25	13.66	13.56	13.58	
10	256QAM	1	49	13.72	13.65	13.66	
10	256QAM	25	0	13.62	13.59	13.59	14.5
10	256QAM	25	12	13.72	13.57	13.50	
10	256QAM	25	25	13.63	13.56	13.48	
10	256QAM	50	0	13.14	13.11	13.18	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	18.42	17.60	17.46	19.5
5	QPSK	1	12	18.49	17.71	17.81	
5	QPSK	1	24	18.46	17.54	17.60	
5	QPSK	12	0	17.48	17.65	17.62	18.5
5	QPSK	12	7	17.66	16.47	16.45	
5	QPSK	12	13	17.54	16.42	16.38	
5	QPSK	25	0	17.64	16.56	16.54	
5	16QAM	1	0	17.93	16.57	16.56	18.5
5	16QAM	1	12	17.94	17.57	17.43	
5	16QAM	1	24	17.93	17.53	17.55	
5	16QAM	12	0	16.57	17.55	17.51	17.5
5	16QAM	12	7	16.72	16.49	16.47	
5	16QAM	12	13	16.57	16.37	16.43	
5	16QAM	25	0	16.54	16.62	16.55	
5	64QAM	1	0	17.43	16.49	16.41	17.5
5	64QAM	1	12	16.67	16.58	16.49	
5	64QAM	1	24	16.73	16.53	16.58	
5	64QAM	12	0	15.53	16.40	16.51	16.5
5	64QAM	12	7	15.65	15.48	15.38	
5	64QAM	12	13	15.56	15.38	15.48	
5	64QAM	25	0	15.52	15.50	15.40	
5	256QAM	1	0	13.55	15.34	15.37	14.5
5	256QAM	1	12	13.53	13.45	13.54	
5	256QAM	1	24	13.61	13.56	13.66	
5	256QAM	12	0	13.45	13.46	13.55	14.5
5	256QAM	12	7	13.63	13.40	13.30	
5	256QAM	12	13	13.61	13.47	13.42	
5	256QAM	25	0	12.98	13.08	13.00	



Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	18.47	17.65	17.40	19.5
3	QPSK	1	8	18.49	17.71	17.75	
3	QPSK	1	14	18.30	17.51	17.69	
3	QPSK	8	0	17.58	17.60	17.47	18.5
3	QPSK	8	4	17.55	16.56	16.44	
3	QPSK	8	7	17.64	16.59	16.38	
3	QPSK	15	0	17.53	16.54	16.55	18.5
3	16QAM	1	0	17.99	16.45	16.49	
3	16QAM	1	8	17.90	17.57	17.46	
3	16QAM	1	14	17.92	17.59	17.53	17.5
3	16QAM	8	0	16.50	17.45	17.42	
3	16QAM	8	4	16.79	16.53	16.49	
3	16QAM	8	7	16.57	16.41	16.40	17.5
3	16QAM	15	0	16.49	16.62	16.44	
3	64QAM	1	0	17.53	16.49	16.41	
3	64QAM	1	8	16.80	16.61	16.38	16.5
3	64QAM	1	14	16.82	16.55	16.50	
3	64QAM	8	0	15.45	16.45	16.48	
3	64QAM	8	4	15.51	15.49	15.49	14.5
3	64QAM	8	7	15.64	15.47	15.48	
3	64QAM	15	0	15.71	15.58	15.42	
3	256QAM	1	0	13.51	15.51	15.49	14.5
3	256QAM	1	8	13.59	13.41	13.44	
3	256QAM	1	14	13.70	13.53	13.46	
3	256QAM	8	0	13.59	13.58	13.49	14.5
3	256QAM	8	4	13.53	13.56	13.38	
3	256QAM	8	7	13.57	13.37	13.43	
3	256QAM	15	0	13.03	12.98	13.00	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	18.45	17.72	17.29	19.5
1.4	QPSK	1	3	18.54	17.66	17.81	
1.4	QPSK	1	5	18.40	17.66	17.61	
1.4	QPSK	3	0	18.45	17.63	17.40	18.5
1.4	QPSK	3	1	18.51	17.72	17.69	
1.4	QPSK	3	3	18.36	17.70	17.67	
1.4	QPSK	6	0	17.64	16.56	16.54	18.5
1.4	16QAM	1	0	17.93	16.57	16.56	18.5
1.4	16QAM	1	3	17.94	17.57	17.43	
1.4	16QAM	1	5	17.53	17.60	17.55	
1.4	16QAM	3	0	17.95	17.56	17.47	17.5
1.4	16QAM	3	1	17.81	17.56	17.43	
1.4	16QAM	3	3	17.20	17.37	17.33	
1.4	16QAM	6	0	16.79	16.56	16.52	17.5
1.4	64QAM	1	0	16.70	16.57	16.40	17.5
1.4	64QAM	1	3	16.64	16.46	16.52	
1.4	64QAM	1	5	17.58	16.54	16.38	
1.4	64QAM	3	0	17.54	16.43	16.50	16.5
1.4	64QAM	3	1	16.85	16.64	16.47	
1.4	64QAM	3	3	16.73	16.55	16.53	
1.4	64QAM	6	0	15.54	16.48	16.53	16.5
1.4	256QAM	1	0	13.55	15.34	15.37	14.5
1.4	256QAM	1	3	13.53	13.45	13.54	
1.4	256QAM	1	5	13.61	13.56	13.66	
1.4	256QAM	3	0	13.45	13.46	13.55	14.5
1.4	256QAM	3	1	13.63	13.40	13.30	
1.4	256QAM	3	3	13.61	13.47	13.42	
1.4	256QAM	6	0	12.98	13.08	13.00	14.5



FDD LTE Band 7_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.87	23.12	23.46	24.5
20	QPSK	1	49	23.12	23.33	23.65	
20	QPSK	1	99	23.22	23.25	23.20	
20	QPSK	50	0	22.02	22.32	22.71	23.5
20	QPSK	50	24	22.11	22.34	22.55	
20	QPSK	50	50	22.12	22.41	22.69	
20	QPSK	100	0	22.09	22.39	22.68	
20	16QAM	1	0	22.16	22.51	22.76	23.5
20	16QAM	1	49	22.18	22.47	22.75	
20	16QAM	1	99	22.34	22.54	22.83	
20	16QAM	50	0	21.09	21.33	21.59	22.5
20	16QAM	50	24	21.13	21.36	21.66	
20	16QAM	50	50	21.18	21.41	21.72	
20	16QAM	100	0	21.12	21.39	21.68	
20	64QAM	1	0	21.05	21.97	21.64	22.5
20	64QAM	1	49	21.23	21.44	21.83	
20	64QAM	1	99	21.23	21.52	21.82	
20	64QAM	50	0	20.00	20.29	20.55	21.5
20	64QAM	50	24	20.13	20.32	20.66	
20	64QAM	50	50	20.12	20.41	20.71	
20	64QAM	100	0	20.13	20.38	20.67	
20	256QAM	1	0	18.09	18.21	18.35	19.5
20	256QAM	1	49	17.99	18.14	18.52	
20	256QAM	1	99	18.07	18.18	18.36	
20	256QAM	50	0	18.02	18.17	18.40	19.5
20	256QAM	50	24	18.07	18.12	18.41	
20	256QAM	50	50	17.94	18.17	18.38	
20	256QAM	100	0	18.12	18.13	18.42	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.72	22.92	23.26	24.5
15	QPSK	1	37	23.00	23.19	23.58	
15	QPSK	1	74	23.20	23.09	23.04	
15	QPSK	36	0	21.86	22.23	22.55	23.5
15	QPSK	36	20	21.92	22.33	22.41	
15	QPSK	36	39	22.07	22.23	22.67	
15	QPSK	75	0	21.97	22.28	22.51	
15	16QAM	1	0	22.14	22.45	22.71	23.5
15	16QAM	1	37	22.16	22.42	22.73	
15	16QAM	1	74	22.21	22.35	22.69	
15	16QAM	36	0	20.94	21.16	21.56	22.5
15	16QAM	36	20	20.94	21.24	21.60	
15	16QAM	36	39	21.05	21.30	21.70	
15	16QAM	75	0	20.92	21.28	21.51	
15	64QAM	1	0	21.04	21.91	21.50	22.5
15	64QAM	1	37	21.11	21.37	21.72	
15	64QAM	1	74	21.08	21.34	21.71	
15	64QAM	36	0	19.85	20.09	20.35	21.5
15	64QAM	36	20	20.07	20.16	20.50	
15	64QAM	36	39	20.05	20.27	20.68	
15	64QAM	75	0	20.03	20.24	20.53	
15	256QAM	1	0	17.98	18.07	18.27	19.5
15	256QAM	1	37	17.92	18.00	18.44	
15	256QAM	1	74	18.05	18.06	18.19	
15	256QAM	36	0	17.82	18.08	18.34	19.5
15	256QAM	36	20	17.91	17.92	18.33	
15	256QAM	36	39	17.88	18.09	18.24	
15	256QAM	75	0	17.97	18.02	18.38	



Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.85	23.06	23.42	24.5
10	QPSK	1	25	23.07	23.15	23.50	
10	QPSK	1	49	23.10	23.17	23.16	
10	QPSK	25	0	21.90	22.15	22.67	23.5
10	QPSK	25	12	22.10	22.22	22.44	
10	QPSK	25	25	21.99	22.40	22.56	
10	QPSK	50	0	21.91	22.33	22.52	23.5
10	16QAM	1	0	22.09	22.49	22.71	
10	16QAM	1	25	21.99	22.37	22.70	
10	16QAM	1	49	22.28	22.53	22.75	22.5
10	16QAM	25	0	21.03	21.30	21.47	
10	16QAM	25	12	21.02	21.19	21.53	
10	16QAM	25	25	21.04	21.29	21.54	22.5
10	16QAM	50	0	20.94	21.22	21.57	
10	64QAM	1	0	20.99	21.90	21.54	
10	64QAM	1	25	21.14	21.28	21.75	22.5
10	64QAM	1	49	21.22	21.33	21.77	
10	64QAM	25	0	19.92	20.12	20.45	
10	64QAM	25	12	20.08	20.16	20.57	21.5
10	64QAM	25	25	20.00	20.36	20.51	
10	64QAM	50	0	20.00	20.30	20.49	
10	256QAM	1	0	18.06	18.09	18.18	19.5
10	256QAM	1	25	17.94	18.02	18.37	
10	256QAM	1	49	18.03	18.14	18.30	
10	256QAM	25	0	17.97	17.98	18.31	19.5
10	256QAM	25	12	17.93	17.98	18.30	
10	256QAM	25	25	17.76	18.05	18.37	
10	256QAM	50	0	18.05	17.93	18.26	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.80	22.99	23.38	24.5
5	QPSK	1	12	23.06	23.28	23.48	
5	QPSK	1	24	23.21	23.09	23.03	
5	QPSK	12	0	21.93	22.15	22.53	23.5
5	QPSK	12	7	22.01	22.24	22.53	
5	QPSK	12	13	22.07	22.22	22.59	
5	QPSK	25	0	21.91	22.24	22.59	23.5
5	16QAM	1	0	22.15	22.39	22.70	
5	16QAM	1	12	22.16	22.36	22.71	
5	16QAM	1	24	22.26	22.52	22.72	22.5
5	16QAM	12	0	20.98	21.22	21.45	
5	16QAM	12	7	21.03	21.21	21.59	
5	16QAM	12	13	21.07	21.23	21.56	22.5
5	16QAM	25	0	21.11	21.31	21.57	
5	64QAM	1	0	20.99	21.78	21.61	
5	64QAM	1	12	21.21	21.27	21.77	22.5
5	64QAM	1	24	21.20	21.41	21.73	
5	64QAM	12	0	19.88	20.26	20.44	
5	64QAM	12	7	20.00	20.29	20.48	21.5
5	64QAM	12	13	20.10	20.26	20.59	
5	64QAM	25	0	19.98	20.24	20.49	
5	256QAM	1	0	17.97	18.01	18.16	19.5
5	256QAM	1	12	17.93	17.99	18.37	
5	256QAM	1	24	17.88	18.15	18.34	
5	256QAM	12	0	17.96	18.02	18.24	19.5
5	256QAM	12	7	17.94	18.05	18.37	
5	256QAM	12	13	17.82	18.07	18.19	
5	256QAM	25	0	18.11	18.00	18.24	



FDD LTE Band 7_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.44	23.51	23.32	24.5
20	QPSK	1	49	23.51	23.71	23.34	
20	QPSK	1	99	23.37	23.49	23.32	
20	QPSK	50	0	22.52	22.64	22.42	23.5
20	QPSK	50	24	22.52	22.61	22.41	
20	QPSK	50	50	22.51	22.56	22.40	
20	QPSK	100	0	22.62	22.64	22.31	
20	16QAM	1	0	22.87	22.79	22.66	23.5
20	16QAM	1	49	22.99	22.80	23.11	
20	16QAM	1	99	22.73	22.79	22.72	
20	16QAM	50	0	21.60	21.75	21.49	22.5
20	16QAM	50	24	21.65	21.70	21.47	
20	16QAM	50	50	21.58	21.58	21.52	
20	16QAM	100	0	21.56	21.69	21.42	
20	64QAM	1	0	21.63	21.70	21.61	22.5
20	64QAM	1	49	21.68	21.97	21.62	
20	64QAM	1	99	21.63	21.67	21.41	
20	64QAM	50	0	20.53	20.72	20.48	21.5
20	64QAM	50	24	20.65	20.68	20.48	
20	64QAM	50	50	20.62	20.58	20.53	
20	64QAM	100	0	20.56	20.67	20.48	
20	256QAM	1	0	18.45	18.65	18.55	19.5
20	256QAM	1	49	18.48	18.74	18.49	
20	256QAM	1	99	18.45	18.61	18.46	
20	256QAM	50	0	18.44	18.60	18.51	19.5
20	256QAM	50	24	18.44	18.80	18.45	
20	256QAM	50	50	18.48	18.91	18.72	
20	256QAM	100	0	18.57	18.79	18.49	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.40	23.24	23.13	24.5
15	QPSK	1	37	23.49	23.41	23.35	
15	QPSK	1	74	23.43	23.36	23.21	
15	QPSK	36	0	22.63	22.38	22.28	23.5
15	QPSK	36	20	22.55	22.32	22.41	
15	QPSK	36	39	22.48	22.36	22.26	
15	QPSK	75	0	22.42	22.41	22.28	
15	16QAM	1	0	22.83	22.60	22.54	23.5
15	16QAM	1	37	22.75	22.97	22.94	
15	16QAM	1	74	22.75	22.61	22.69	
15	16QAM	36	0	21.71	21.39	21.27	22.5
15	16QAM	36	20	21.49	21.41	21.27	
15	16QAM	36	39	21.43	21.49	21.49	
15	16QAM	75	0	21.62	21.49	21.35	
15	64QAM	1	0	21.54	21.49	21.56	22.5
15	64QAM	1	37	21.75	21.64	21.51	
15	64QAM	1	74	21.71	21.48	21.33	
15	64QAM	36	0	20.71	20.35	20.28	21.5
15	64QAM	36	20	20.54	20.52	20.37	
15	64QAM	36	39	20.55	20.43	20.34	
15	64QAM	75	0	20.68	20.64	20.32	
15	256QAM	1	0	18.60	18.31	18.46	19.5
15	256QAM	1	37	18.50	18.37	18.47	
15	256QAM	1	74	18.60	18.29	18.29	
15	256QAM	36	0	18.39	18.30	18.56	19.5
15	256QAM	36	20	18.74	18.27	18.37	
15	256QAM	36	39	18.90	18.42	18.72	
15	256QAM	75	0	18.73	18.45	18.30	



Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.44	23.42	23.17	24.5
10	QPSK	1	25	23.58	23.55	23.29	
10	QPSK	1	49	23.46	23.19	23.37	
10	QPSK	25	0	22.63	22.52	22.37	23.5
10	QPSK	25	12	22.59	22.40	22.30	
10	QPSK	25	25	22.50	22.52	22.33	
10	QPSK	50	0	22.45	22.56	22.32	23.5
10	16QAM	1	0	22.83	22.70	22.44	
10	16QAM	1	25	22.74	22.95	22.91	
10	16QAM	1	49	22.56	22.55	22.54	22.5
10	16QAM	25	0	21.52	21.50	21.25	
10	16QAM	25	12	21.62	21.56	21.27	
10	16QAM	25	25	21.42	21.47	21.36	22.5
10	16QAM	50	0	21.63	21.36	21.24	
10	64QAM	1	0	21.60	21.54	21.54	
10	64QAM	1	25	21.91	21.60	21.42	22.5
10	64QAM	1	49	21.76	21.49	21.42	
10	64QAM	25	0	20.57	20.43	20.34	
10	64QAM	25	12	20.62	20.56	20.29	21.5
10	64QAM	25	25	20.55	20.61	20.52	
10	64QAM	50	0	20.55	20.60	20.29	
10	256QAM	1	0	18.63	18.29	18.43	19.5
10	256QAM	1	25	18.52	18.36	18.46	
10	256QAM	1	49	18.54	18.37	18.40	
10	256QAM	25	0	18.49	18.40	18.30	19.5
10	256QAM	25	12	18.51	18.43	18.43	
10	256QAM	25	25	18.85	18.53	18.65	
10	256QAM	50	0	18.67	18.50	18.48	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.50	23.38	23.25	24.5
5	QPSK	1	12	23.64	23.37	23.33	
5	QPSK	1	24	23.44	23.22	23.28	
5	QPSK	12	0	22.49	22.45	22.35	23.5
5	QPSK	12	7	22.46	22.53	22.35	
5	QPSK	12	13	22.44	22.39	22.39	
5	QPSK	25	0	22.50	22.54	22.17	23.5
5	16QAM	1	0	22.61	22.76	22.60	
5	16QAM	1	12	22.70	22.97	23.02	
5	16QAM	1	24	22.65	22.49	22.58	22.5
5	16QAM	12	0	21.53	21.53	21.30	
5	16QAM	12	7	21.45	21.54	21.32	
5	16QAM	12	13	21.58	21.54	21.39	22.5
5	16QAM	25	0	21.57	21.48	21.22	
5	64QAM	1	0	21.53	21.47	21.61	
5	64QAM	1	12	21.94	21.68	21.53	22.5
5	64QAM	1	24	21.57	21.43	21.44	
5	64QAM	12	0	20.49	20.58	20.31	
5	64QAM	12	7	20.71	20.52	20.40	21.5
5	64QAM	12	13	20.49	20.50	20.52	
5	64QAM	25	0	20.62	20.54	20.26	
5	256QAM	1	0	18.64	18.26	18.35	19.5
5	256QAM	1	12	18.45	18.45	18.36	
5	256QAM	1	24	18.44	18.35	18.39	
5	256QAM	12	0	18.39	18.29	18.38	19.5
5	256QAM	12	7	18.61	18.34	18.36	
5	256QAM	12	13	18.86	18.47	18.64	
5	256QAM	25	0	18.69	18.49	18.44	



FDD LTE Band 7_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.53	22.51	22.50	24
20	QPSK	1	49	22.50	22.55	22.52	
20	QPSK	1	99	22.52	22.50	22.52	
20	QPSK	50	0	21.63	21.65	21.60	23
20	QPSK	50	24	21.61	21.51	21.58	
20	QPSK	50	50	21.57	21.50	21.55	
20	QPSK	100	0	21.60	21.63	21.57	
20	16QAM	1	0	21.85	21.63	21.84	23
20	16QAM	1	49	21.89	21.93	21.88	
20	16QAM	1	99	21.71	21.89	21.88	
20	16QAM	50	0	20.61	20.62	20.57	22
20	16QAM	50	24	20.63	20.54	20.62	
20	16QAM	50	50	20.61	20.51	20.60	
20	16QAM	100	0	20.59	20.53	20.60	
20	64QAM	1	0	20.55	20.60	20.73	22
20	64QAM	1	49	20.83	20.70	20.68	
20	64QAM	1	99	20.62	20.56	20.87	
20	64QAM	50	0	19.58	19.60	19.57	21
20	64QAM	50	24	19.64	19.55	19.58	
20	64QAM	50	50	19.63	19.60	19.64	
20	64QAM	100	0	19.59	19.53	19.61	
20	256QAM	1	0	17.61	17.68	17.77	19
20	256QAM	1	49	17.54	17.52	17.70	
20	256QAM	1	99	17.52	17.62	17.67	
20	256QAM	50	0	17.53	17.63	17.80	19
20	256QAM	50	24	17.50	17.68	17.77	
20	256QAM	50	50	17.80	17.65	17.81	
20	256QAM	100	0	17.50	17.65	18.07	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.52	22.54	22.46	24
15	QPSK	1	37	22.48	22.49	22.41	
15	QPSK	1	74	22.50	22.41	22.48	
15	QPSK	36	0	21.56	21.67	21.60	23
15	QPSK	36	20	21.64	21.36	21.55	
15	QPSK	36	39	21.48	21.48	21.58	
15	QPSK	75	0	21.47	21.49	21.55	
15	16QAM	1	0	21.79	21.49	21.81	23
15	16QAM	1	37	21.74	21.80	21.73	
15	16QAM	1	74	21.75	21.75	21.92	
15	16QAM	36	0	20.61	20.56	20.47	22
15	16QAM	36	20	20.64	20.58	20.60	
15	16QAM	36	39	20.55	20.42	20.63	
15	16QAM	75	0	20.48	20.41	20.51	
15	64QAM	1	0	20.57	20.47	20.74	22
15	64QAM	1	37	20.84	20.59	20.72	
15	64QAM	1	74	20.55	20.42	20.74	
15	64QAM	36	0	19.53	19.48	19.59	21
15	64QAM	36	20	19.61	19.47	19.53	
15	64QAM	36	39	19.60	19.55	19.50	
15	64QAM	75	0	19.49	19.49	19.48	
15	256QAM	1	0	17.46	17.60	17.71	19
15	256QAM	1	37	17.44	17.47	17.70	
15	256QAM	1	74	17.48	17.51	17.59	
15	256QAM	36	0	17.49	17.57	17.68	19
15	256QAM	36	20	17.51	17.54	17.73	
15	256QAM	36	39	17.65	17.56	17.72	
15	256QAM	75	0	17.36	17.58	18.06	



Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.52	22.51	22.38	24
10	QPSK	1	25	22.37	22.44	22.46	
10	QPSK	1	49	22.51	22.51	22.40	
10	QPSK	25	0	21.60	21.57	21.64	23
10	QPSK	25	12	21.64	21.48	21.45	
10	QPSK	25	25	21.47	21.54	21.59	
10	QPSK	50	0	21.52	21.55	21.43	23
10	16QAM	1	0	21.85	21.60	21.75	
10	16QAM	1	25	21.78	21.88	21.86	
10	16QAM	1	49	21.62	21.83	21.76	22
10	16QAM	25	0	20.59	20.52	20.60	
10	16QAM	25	12	20.51	20.46	20.57	
10	16QAM	25	25	20.52	20.36	20.50	22
10	16QAM	50	0	20.59	20.50	20.52	
10	64QAM	1	0	20.41	20.64	20.61	
10	64QAM	1	25	20.81	20.56	20.59	22
10	64QAM	1	49	20.52	20.52	20.86	
10	64QAM	25	0	19.56	19.53	19.42	
10	64QAM	25	12	19.63	19.49	19.46	21
10	64QAM	25	25	19.67	19.60	19.57	
10	64QAM	50	0	19.61	19.38	19.56	
10	256QAM	1	0	17.53	17.71	17.74	19
10	256QAM	1	25	17.57	17.50	17.66	
10	256QAM	1	49	17.47	17.48	17.69	
10	256QAM	25	0	17.54	17.55	17.65	19
10	256QAM	25	12	17.36	17.55	17.68	
10	256QAM	25	25	17.77	17.69	17.83	
10	256QAM	50	0	17.50	17.55	17.98	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.42	22.49	22.53	24
5	QPSK	1	12	22.44	22.43	22.45	
5	QPSK	1	24	22.42	22.43	22.38	
5	QPSK	12	0	21.54	21.65	21.63	23
5	QPSK	12	7	21.55	21.51	21.53	
5	QPSK	12	13	21.50	21.37	21.51	
5	QPSK	25	0	21.63	21.66	21.58	23
5	16QAM	1	0	21.85	21.67	21.85	
5	16QAM	1	12	21.75	21.89	21.92	
5	16QAM	1	24	21.57	21.80	21.84	22
5	16QAM	12	0	20.61	20.63	20.46	
5	16QAM	12	7	20.62	20.46	20.65	
5	16QAM	12	13	20.56	20.52	20.60	22
5	16QAM	25	0	20.58	20.50	20.54	
5	64QAM	1	0	20.48	20.54	20.67	
5	64QAM	1	12	20.72	20.74	20.59	22
5	64QAM	1	24	20.55	20.60	20.81	
5	64QAM	12	0	19.59	19.60	19.44	
5	64QAM	12	7	19.58	19.41	19.62	21
5	64QAM	12	13	19.57	19.60	19.59	
5	64QAM	25	0	19.56	19.55	19.53	
5	256QAM	1	0	17.55	17.63	17.80	19
5	256QAM	1	12	17.58	17.51	17.62	
5	256QAM	1	24	17.56	17.51	17.67	
5	256QAM	12	0	17.43	17.59	17.75	19
5	256QAM	12	7	17.51	17.67	17.62	
5	256QAM	12	13	17.68	17.60	17.80	
5	256QAM	25	0	17.46	17.67	18.09	



FDD LTE Band 7_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.55	18.72	18.58	19.5
20	QPSK	1	49	18.56	18.77	18.59	
20	QPSK	1	99	18.54	18.62	18.51	
20	QPSK	50	0	17.82	17.98	17.73	18.5
20	QPSK	50	24	17.76	17.97	17.72	
20	QPSK	50	50	17.74	17.91	17.66	
20	QPSK	100	0	17.64	17.90	17.69	
20	16QAM	1	0	18.35	18.43	18.23	18.5
20	16QAM	1	49	18.34	18.62	18.32	
20	16QAM	1	99	18.24	18.46	18.15	
20	16QAM	50	0	17.29	17.43	17.25	17.5
20	16QAM	50	24	17.27	17.45	17.22	
20	16QAM	50	50	17.20	17.40	17.10	
20	16QAM	100	0	17.18	17.39	17.08	
20	64QAM	1	0	17.23	17.48	17.32	17.5
20	64QAM	1	49	17.43	17.46	17.26	
20	64QAM	1	99	17.24	17.38	17.26	
20	64QAM	50	0	16.27	16.44	16.21	16.5
20	64QAM	50	24	16.21	16.45	16.19	
20	64QAM	50	50	16.18	16.40	16.11	
20	64QAM	100	0	16.24	16.39	16.18	
20	256QAM	1	0	14.24	14.45	14.27	14.5
20	256QAM	1	49	14.27	14.49	14.24	
20	256QAM	1	99	14.33	14.44	14.13	
20	256QAM	50	0	14.17	14.38	14.19	14.5
20	256QAM	50	24	14.16	14.44	14.19	
20	256QAM	50	50	14.19	14.39	14.14	
20	256QAM	100	0	14.15	14.41	14.16	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.40	18.59	18.53	19.5
15	QPSK	1	37	18.43	18.60	18.39	
15	QPSK	1	74	18.39	18.45	18.47	
15	QPSK	36	0	17.78	17.78	17.63	18.5
15	QPSK	36	20	17.73	17.97	17.59	
15	QPSK	36	39	17.65	17.78	17.60	
15	QPSK	75	0	17.58	17.70	17.59	
15	16QAM	1	0	18.35	18.25	18.03	18.5
15	16QAM	1	37	18.26	18.57	18.23	
15	16QAM	1	74	18.07	18.43	18.13	
15	16QAM	36	0	17.17	17.27	17.13	17.5
15	16QAM	36	20	17.07	17.34	17.09	
15	16QAM	36	39	17.15	17.22	17.09	
15	16QAM	75	0	17.00	17.26	17.03	
15	64QAM	1	0	17.05	17.37	17.16	17.5
15	64QAM	1	37	17.39	17.40	17.25	
15	64QAM	1	74	17.19	17.37	17.18	
15	64QAM	36	0	16.09	16.26	16.10	16.5
15	64QAM	36	20	16.16	16.42	16.18	
15	64QAM	36	39	16.16	16.26	15.98	
15	64QAM	75	0	16.20	16.38	16.04	
15	256QAM	1	0	14.12	14.28	14.15	14.5
15	256QAM	1	37	14.14	14.33	14.13	
15	256QAM	1	74	14.27	14.41	14.05	
15	256QAM	36	0	14.07	14.23	14.11	14.5
15	256QAM	36	20	14.07	14.25	14.04	
15	256QAM	36	39	14.06	14.31	14.02	
15	256QAM	75	0	14.12	14.28	14.13	



Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.50	18.55	18.55	19.5
10	QPSK	1	25	18.44	18.72	18.42	
10	QPSK	1	49	18.53	18.54	18.49	
10	QPSK	25	0	17.76	17.82	17.60	18.5
10	QPSK	25	12	17.68	17.85	17.53	
10	QPSK	25	25	17.70	17.74	17.65	
10	QPSK	50	0	17.58	17.83	17.58	18.5
10	16QAM	1	0	18.35	18.23	18.03	
10	16QAM	1	25	18.24	18.58	18.20	
10	16QAM	1	49	18.23	18.32	18.03	17.5
10	16QAM	25	0	17.13	17.43	17.23	
10	16QAM	25	12	17.11	17.25	17.05	
10	16QAM	25	25	17.06	17.29	17.04	17.5
10	16QAM	50	0	17.09	17.34	16.89	
10	64QAM	1	0	17.18	17.30	17.26	
10	64QAM	1	25	17.29	17.40	17.11	16.5
10	64QAM	1	49	17.22	17.30	17.09	
10	64QAM	25	0	16.25	16.41	16.21	
10	64QAM	25	12	16.13	16.27	16.07	14.5
10	64QAM	25	25	16.14	16.33	16.09	
10	64QAM	50	0	16.18	16.34	16.11	
10	256QAM	1	0	14.10	14.35	14.09	14.5
10	256QAM	1	25	14.07	14.41	14.05	
10	256QAM	1	49	14.15	14.43	13.96	
10	256QAM	25	0	13.97	14.28	14.05	14.5
10	256QAM	25	12	14.15	14.42	14.04	
10	256QAM	25	25	14.08	14.19	14.09	
10	256QAM	50	0	14.13	14.31	14.15	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	18.45	18.64	18.48	19.5
5	QPSK	1	12	18.40	18.69	18.43	
5	QPSK	1	24	18.43	18.52	18.37	
5	QPSK	12	0	17.65	17.83	17.54	18.5
5	QPSK	12	7	17.70	17.79	17.56	
5	QPSK	12	13	17.67	17.75	17.66	
5	QPSK	25	0	17.50	17.75	17.59	18.5
5	16QAM	1	0	18.24	18.39	18.10	
5	16QAM	1	12	18.16	18.54	18.23	
5	16QAM	1	24	18.19	18.30	18.03	17.5
5	16QAM	12	0	17.17	17.32	17.19	
5	16QAM	12	7	17.11	17.26	17.03	
5	16QAM	12	13	17.16	17.30	16.92	17.5
5	16QAM	25	0	17.17	17.38	17.05	
5	64QAM	1	0	17.17	17.35	17.24	
5	64QAM	1	12	17.35	17.40	17.11	16.5
5	64QAM	1	24	17.15	17.33	17.13	
5	64QAM	12	0	16.14	16.41	16.18	
5	64QAM	12	7	16.16	16.42	16.17	14.5
5	64QAM	12	13	16.09	16.32	15.98	
5	64QAM	25	0	16.23	16.30	16.17	
5	256QAM	1	0	14.17	14.43	14.27	14.5
5	256QAM	1	12	14.22	14.39	14.09	
5	256QAM	1	24	14.33	14.39	14.04	
5	256QAM	12	0	14.11	14.30	14.04	14.5
5	256QAM	12	7	14.01	14.31	14.00	
5	256QAM	12	13	14.19	14.31	13.96	
5	256QAM	25	0	13.99	14.41	14.16	



FDD LTE Band 7_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.66	16.24	15.94	17
20	QPSK	1	49	16.74	16.52	16.33	
20	QPSK	1	99	16.63	16.22	16.16	
20	QPSK	50	0	15.89	15.86	15.80	16
20	QPSK	50	24	15.85	14.78	14.76	
20	QPSK	50	50	15.85	14.76	14.70	
20	QPSK	100	0	15.81	14.79	14.72	
20	16QAM	1	0	16.19	14.75	14.72	16
20	16QAM	1	49	16.21	15.80	15.78	
20	16QAM	1	99	16.13	15.77	15.74	
20	16QAM	50	0	14.86	15.72	15.67	15.5
20	16QAM	50	24	14.96	14.78	14.79	
20	16QAM	50	50	14.86	14.73	14.70	
20	16QAM	100	0	14.84	14.80	14.75	
20	64QAM	1	0	15.77	14.71	14.70	15.5
20	64QAM	1	49	15.01	14.83	14.72	
20	64QAM	1	99	15.00	14.88	14.77	
20	64QAM	50	0	13.81	14.70	14.73	15
20	64QAM	50	24	13.85	13.77	13.67	
20	64QAM	50	50	13.84	13.71	13.71	
20	64QAM	100	0	13.87	13.76	13.70	
20	256QAM	1	0	11.81	13.70	13.69	13
20	256QAM	1	49	11.82	11.72	11.74	
20	256QAM	1	99	11.88	11.81	11.82	
20	256QAM	50	0	11.78	11.75	11.75	13
20	256QAM	50	24	11.88	11.73	11.66	
20	256QAM	50	50	11.79	11.72	11.64	
20	256QAM	100	0	11.30	11.27	11.34	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.55	16.23	15.79	17
15	QPSK	1	37	16.71	16.52	16.25	
15	QPSK	1	74	16.48	16.05	16.08	
15	QPSK	36	0	15.69	15.68	15.67	16
15	QPSK	36	20	15.78	14.76	14.66	
15	QPSK	36	39	15.84	14.76	14.56	
15	QPSK	75	0	15.67	14.70	14.54	
15	16QAM	1	0	15.99	14.56	14.57	16
15	16QAM	1	37	16.09	15.68	15.78	
15	16QAM	1	74	16.00	15.65	15.61	
15	16QAM	36	0	14.80	15.54	15.51	15.5
15	16QAM	36	20	14.87	14.77	14.66	
15	16QAM	36	39	14.79	14.68	14.62	
15	16QAM	75	0	14.75	14.80	14.58	
15	64QAM	1	0	15.62	14.69	14.62	15.5
15	64QAM	1	37	14.81	14.71	14.68	
15	64QAM	1	74	14.91	14.87	14.64	
15	64QAM	36	0	13.66	14.58	14.71	15
15	64QAM	36	20	13.81	13.73	13.48	
15	64QAM	36	39	13.69	13.63	13.63	
15	64QAM	75	0	13.80	13.69	13.62	
15	256QAM	1	0	11.63	13.54	13.59	13
15	256QAM	1	37	11.75	11.62	11.56	
15	256QAM	1	74	11.70	11.66	11.62	
15	256QAM	36	0	11.75	11.72	11.72	13
15	256QAM	36	20	11.72	11.65	11.50	
15	256QAM	36	39	11.70	11.64	11.61	
15	256QAM	75	0	11.27	11.19	11.14	



Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.59	16.11	15.87	17
10	QPSK	1	25	16.57	16.46	16.23	
10	QPSK	1	49	16.60	16.14	15.96	
10	QPSK	25	0	15.87	15.66	15.62	16
10	QPSK	25	12	15.75	14.62	14.67	
10	QPSK	25	25	15.82	14.72	14.68	
10	QPSK	50	0	15.71	14.69	14.59	
10	16QAM	1	0	16.05	14.70	14.67	16
10	16QAM	1	25	16.01	15.60	15.73	
10	16QAM	1	49	16.07	15.70	15.70	
10	16QAM	25	0	14.69	15.63	15.67	15.5
10	16QAM	25	12	14.76	14.78	14.74	
10	16QAM	25	25	14.75	14.71	14.54	
10	16QAM	50	0	14.81	14.64	14.61	
10	64QAM	1	0	15.59	14.58	14.57	15.5
10	64QAM	1	25	15.01	14.68	14.71	
10	64QAM	1	49	14.91	14.76	14.69	
10	64QAM	25	0	13.72	14.51	14.71	15
10	64QAM	25	12	13.81	13.70	13.64	
10	64QAM	25	25	13.80	13.54	13.64	
10	64QAM	50	0	13.67	13.72	13.51	
10	256QAM	1	0	11.79	13.61	13.63	13
10	256QAM	1	25	11.65	11.68	11.65	
10	256QAM	1	49	11.80	11.65	11.72	
10	256QAM	25	0	11.66	11.74	11.69	13
10	256QAM	25	12	11.84	11.67	11.59	
10	256QAM	25	25	11.70	11.54	11.61	
10	256QAM	50	0	11.30	11.18	11.23	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.48	16.04	15.79	17
5	QPSK	1	12	16.73	16.35	16.33	
5	QPSK	1	24	16.61	16.03	16.10	
5	QPSK	12	0	15.78	15.80	15.65	16
5	QPSK	12	7	15.78	14.74	14.70	
5	QPSK	12	13	15.68	14.72	14.65	
5	QPSK	25	0	15.74	14.60	14.54	
5	16QAM	1	0	16.06	14.63	14.71	16
5	16QAM	1	12	16.07	15.65	15.76	
5	16QAM	1	24	16.07	15.61	15.74	
5	16QAM	12	0	14.67	15.59	15.51	15.5
5	16QAM	12	7	14.79	14.78	14.75	
5	16QAM	12	13	14.82	14.62	14.57	
5	16QAM	25	0	14.81	14.64	14.72	
5	64QAM	1	0	15.76	14.59	14.56	15.5
5	64QAM	1	12	14.94	14.81	14.56	
5	64QAM	1	24	14.88	14.87	14.60	
5	64QAM	12	0	13.80	14.51	14.69	15
5	64QAM	12	7	13.85	13.59	13.47	
5	64QAM	12	13	13.82	13.69	13.60	
5	64QAM	25	0	13.86	13.70	13.63	
5	256QAM	1	0	11.74	13.60	13.60	13
5	256QAM	1	12	11.76	11.69	11.70	
5	256QAM	1	24	11.83	11.71	11.69	
5	256QAM	12	0	11.76	11.70	11.56	13
5	256QAM	12	7	11.74	11.64	11.64	
5	256QAM	12	13	11.75	11.52	11.60	
5	256QAM	25	0	11.12	11.09	11.24	



FDD LTE Band 7_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	21.30	21.47	21.03	22
20	QPSK	1	49	21.70	21.51	21.67	
20	QPSK	1	99	21.13	21.26	21.26	
20	QPSK	50	0	20.37	20.13	20.13	21
20	QPSK	50	24	20.23	20.00	20.02	
20	QPSK	50	50	20.35	20.09	19.95	
20	QPSK	100	0	20.33	20.15	20.09	
20	16QAM	1	0	21.19	21.20	21.24	21
20	16QAM	1	49	21.23	21.14	21.15	
20	16QAM	1	99	21.59	20.99	20.73	
20	16QAM	50	0	20.18	20.10	20.14	20
20	16QAM	50	24	20.36	20.06	19.89	
20	16QAM	50	50	20.29	20.07	19.95	
20	16QAM	100	0	20.44	20.13	20.09	
20	64QAM	1	0	20.49	20.13	20.31	20
20	64QAM	1	49	20.59	19.99	20.16	
20	64QAM	1	99	20.42	20.12	20.11	
20	64QAM	50	0	18.92	18.56	18.60	19
20	64QAM	50	24	18.76	18.55	18.64	
20	64QAM	50	50	18.63	18.52	18.52	
20	64QAM	100	0	18.83	18.65	18.63	
20	256QAM	1	0	16.77	16.78	16.39	17
20	256QAM	1	49	16.77	16.80	16.84	
20	256QAM	1	99	16.69	16.82	16.52	
20	256QAM	50	0	16.77	16.59	16.65	17
20	256QAM	50	24	16.89	16.71	16.53	
20	256QAM	50	50	16.80	16.65	16.61	
20	256QAM	100	0	16.85	16.61	16.59	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	21.21	21.45	20.98	22
15	QPSK	1	37	21.69	21.34	21.47	
15	QPSK	1	74	20.93	21.15	21.09	
15	QPSK	36	0	20.24	19.94	20.04	21
15	QPSK	36	20	20.06	19.94	19.84	
15	QPSK	36	39	20.21	19.98	19.87	
15	QPSK	75	0	20.15	20.02	19.99	
15	16QAM	1	0	21.17	21.13	21.12	21
15	16QAM	1	37	21.20	20.98	21.08	
15	16QAM	1	74	21.39	20.99	20.67	
15	16QAM	36	0	20.11	19.96	20.07	20
15	16QAM	36	20	20.33	19.97	19.76	
15	16QAM	36	39	20.14	20.02	19.81	
15	16QAM	75	0	20.44	20.04	19.96	
15	64QAM	1	0	20.35	20.12	20.20	20
15	64QAM	1	37	20.50	19.90	20.13	
15	64QAM	1	74	20.34	19.94	20.07	
15	64QAM	36	0	18.73	18.39	18.48	19
15	64QAM	36	20	18.75	18.46	18.45	
15	64QAM	36	39	18.63	18.44	18.49	
15	64QAM	75	0	18.69	18.55	18.59	
15	256QAM	1	0	16.74	16.60	16.39	17
15	256QAM	1	37	16.66	16.80	16.70	
15	256QAM	1	74	16.63	16.73	16.43	
15	256QAM	36	0	16.71	16.46	16.57	17
15	256QAM	36	20	16.76	16.67	16.52	
15	256QAM	36	39	16.80	16.52	16.44	
15	256QAM	75	0	16.68	16.47	16.58	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	21.24	21.36	20.87	22
10	QPSK	1	25	21.53	21.46	21.64	
10	QPSK	1	49	20.97	21.14	21.26	
10	QPSK	25	0	20.35	20.01	19.96	21
10	QPSK	25	12	20.19	19.90	19.91	
10	QPSK	25	25	20.15	20.04	19.79	
10	QPSK	50	0	20.21	20.04	19.95	
10	16QAM	1	0	21.00	21.19	21.22	21
10	16QAM	1	25	21.11	21.02	21.02	
10	16QAM	1	49	21.50	20.98	20.57	
10	16QAM	25	0	20.13	20.08	20.00	20
10	16QAM	25	12	20.22	20.02	19.79	
10	16QAM	25	25	20.22	20.02	19.94	
10	16QAM	50	0	20.39	20.05	19.94	
10	64QAM	1	0	20.41	20.06	20.17	20
10	64QAM	1	25	20.52	19.97	20.03	
10	64QAM	1	49	20.23	19.99	19.97	
10	64QAM	25	0	18.74	18.51	18.60	
10	64QAM	25	12	18.56	18.50	18.44	19
10	64QAM	25	25	18.45	18.36	18.45	
10	64QAM	50	0	18.79	18.57	18.48	
10	256QAM	1	0	16.63	16.74	16.21	17
10	256QAM	1	25	16.66	16.68	16.83	
10	256QAM	1	49	16.50	16.79	16.37	
10	256QAM	25	0	16.76	16.44	16.63	17
10	256QAM	25	12	16.84	16.61	16.51	
10	256QAM	25	25	16.75	16.58	16.55	
10	256QAM	50	0	16.71	16.60	16.40	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	21.19	21.44	20.94	22
5	QPSK	1	12	21.57	21.44	21.67	
5	QPSK	1	24	21.08	21.08	21.11	
5	QPSK	12	0	20.35	20.01	20.09	21
5	QPSK	12	7	20.19	19.97	19.97	
5	QPSK	12	13	20.27	20.01	19.93	
5	QPSK	25	0	20.26	20.00	20.07	
5	16QAM	1	0	21.19	21.20	21.15	21
5	16QAM	1	12	21.14	21.09	20.95	
5	16QAM	1	24	21.48	20.80	20.53	
5	16QAM	12	0	20.15	20.09	19.96	20
5	16QAM	12	7	20.17	19.98	19.70	
5	16QAM	12	13	20.24	19.92	19.90	
5	16QAM	25	0	20.33	19.94	19.92	
5	64QAM	1	0	20.32	20.01	20.15	20
5	64QAM	1	12	20.43	19.94	20.09	
5	64QAM	1	24	20.34	20.00	20.05	
5	64QAM	12	0	18.92	18.47	18.45	19
5	64QAM	12	7	18.59	18.47	18.53	
5	64QAM	12	13	18.57	18.45	18.32	
5	64QAM	25	0	18.65	18.51	18.62	
5	256QAM	1	0	16.70	16.73	16.33	17
5	256QAM	1	12	16.63	16.60	16.76	
5	256QAM	1	24	16.69	16.77	16.33	
5	256QAM	12	0	16.62	16.57	16.60	17
5	256QAM	12	7	16.74	16.69	16.36	
5	256QAM	12	13	16.67	16.62	16.60	
5	256QAM	25	0	16.84	16.50	16.57	



FDD LTE Band 12_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.99	23.04	23.01	24.5
10	QPSK	1	25	23.04	23.09	23.04	
10	QPSK	1	49	22.92	23.06	23.01	
10	QPSK	25	0	22.06	22.15	22.08	23.5
10	QPSK	25	12	21.98	22.11	22.05	
10	QPSK	25	25	22.05	22.08	22.03	
10	QPSK	50	0	22.07	22.17	22.15	23.5
10	16QAM	1	0	22.42	22.53	22.42	
10	16QAM	1	25	22.32	22.53	22.46	
10	16QAM	1	49	22.48	22.60	22.56	22.5
10	16QAM	25	0	21.08	21.01	21.10	
10	16QAM	25	12	21.14	21.14	21.13	
10	16QAM	25	25	21.14	21.11	21.13	22.5
10	16QAM	50	0	21.15	21.08	21.14	
10	64QAM	1	0	21.06	21.32	21.19	
10	64QAM	1	25	21.27	21.18	21.32	22.5
10	64QAM	1	49	21.14	21.24	21.31	
10	64QAM	25	0	20.12	20.08	20.00	
10	64QAM	25	12	20.19	20.13	20.10	21.5
10	64QAM	25	25	20.12	20.17	20.07	
10	64QAM	50	0	20.06	20.06	20.17	
10	256QAM	1	0	18.11	18.26	18.14	19.5
10	256QAM	1	25	18.16	18.19	17.97	
10	256QAM	1	49	18.11	18.18	18.14	
10	256QAM	25	0	18.24	18.17	18.06	19.5
10	256QAM	25	12	18.08	18.21	18.20	
10	256QAM	25	25	18.27	18.17	18.29	
10	256QAM	50	0	18.08	18.08	18.43	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.82	23.04	22.97	24.5
5	QPSK	1	12	22.79	23.09	22.86	
5	QPSK	1	24	22.85	22.80	22.81	
5	QPSK	12	0	21.99	21.96	22.03	23.5
5	QPSK	12	7	21.94	22.14	21.96	
5	QPSK	12	13	21.85	21.96	21.85	
5	QPSK	25	0	22.00	21.99	21.99	23.5
5	16QAM	1	0	22.35	22.39	22.37	
5	16QAM	1	12	22.24	22.47	22.45	
5	16QAM	1	24	22.35	22.52	22.44	22.5
5	16QAM	12	0	21.05	20.83	21.05	
5	16QAM	12	7	21.07	21.13	20.96	
5	16QAM	12	13	21.00	21.11	20.96	22.5
5	16QAM	25	0	20.94	21.01	21.12	
5	64QAM	1	0	20.95	21.08	20.98	
5	64QAM	1	12	21.11	21.07	21.24	22.5
5	64QAM	1	24	20.99	21.07	21.37	
5	64QAM	12	0	20.06	20.05	20.00	
5	64QAM	12	7	20.11	19.91	20.01	21.5
5	64QAM	12	13	19.92	20.00	19.97	
5	64QAM	25	0	19.99	20.10	20.11	
5	256QAM	1	0	18.09	18.22	18.15	19.5
5	256QAM	1	12	18.14	18.11	17.97	
5	256QAM	1	24	18.08	18.18	18.12	
5	256QAM	12	0	18.15	18.18	18.07	19.5
5	256QAM	12	7	18.11	18.10	18.06	
5	256QAM	12	13	18.08	18.05	18.11	
5	256QAM	25	0	17.97	18.01	18.32	



Channel				23025	23095	23165	Tune-up limit (dBm)	
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.77	23.00	22.86	24.5	
3	QPSK	1	8	23.02	22.95	22.83		
3	QPSK	1	14	22.91	23.08	22.80		
3	QPSK	8	0	22.03	21.95	21.98	23.5	
3	QPSK	8	4	21.96	22.03	21.91		
3	QPSK	8	7	21.86	21.85	21.98		
3	QPSK	15	0	21.97	22.03	22.03	23.5	
3	16QAM	1	0	22.31	22.38	22.27		
3	16QAM	1	8	22.17	22.54	22.42		
3	16QAM	1	14	22.34	22.42	22.43	22.5	
3	16QAM	8	0	21.04	20.85	20.97		
3	16QAM	8	4	21.00	21.14	21.12		
3	16QAM	8	7	21.04	21.03	20.91	22.5	
3	16QAM	15	0	21.08	21.10	21.06		
3	64QAM	1	0	20.93	21.12	21.03		
3	64QAM	1	8	21.23	21.05	21.24	21.5	
3	64QAM	1	14	21.10	21.23	21.17		
3	64QAM	8	0	19.97	19.90	19.96		
3	64QAM	8	4	20.10	20.02	20.06	19.5	
3	64QAM	8	7	19.98	20.02	20.14		
3	64QAM	15	0	19.98	20.06	20.08		
3	256QAM	1	0	17.95	18.27	18.06	19.5	
3	256QAM	1	8	18.23	18.01	17.87		
3	256QAM	1	14	18.03	18.03	18.20		
3	256QAM	8	0	18.13	18.20	17.89	19.5	
3	256QAM	8	4	18.04	18.09	18.12		
3	256QAM	8	7	18.23	18.07	18.20		
3	256QAM	15	0	17.94	17.98	18.27	19.5	
Channel				23017	23095	23173		Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.89	22.90	22.89	24.5	
1.4	QPSK	1	3	22.98	23.02	22.92		
1.4	QPSK	1	5	22.77	23.06	22.85		
1.4	QPSK	3	0	22.88	23.06	22.94	23.5	
1.4	QPSK	3	1	22.88	22.98	22.94		
1.4	QPSK	3	3	22.83	22.94	22.86		
1.4	QPSK	6	0	21.97	22.14	21.97	23.5	
1.4	16QAM	1	0	22.41	22.38	22.21	23.5	
1.4	16QAM	1	3	22.11	22.37	22.40		
1.4	16QAM	1	5	22.36	22.56	22.62		
1.4	16QAM	3	0	22.41	22.52	22.24	22.5	
1.4	16QAM	3	1	22.21	22.54	22.41		
1.4	16QAM	3	3	22.32	22.53	22.53		
1.4	16QAM	6	0	20.94	21.09	21.06	22.5	
1.4	64QAM	1	0	20.95	21.08	21.03	22.5	
1.4	64QAM	1	3	21.12	21.12	21.25		
1.4	64QAM	1	5	20.95	21.21	21.27		
1.4	64QAM	3	0	21.02	21.09	21.16	21.5	
1.4	64QAM	3	1	21.25	21.06	21.31		
1.4	64QAM	3	3	21.04	21.20	21.23		
1.4	64QAM	6	0	20.03	19.96	20.13	21.5	
1.4	256QAM	1	0	17.89	18.27	18.05	19.5	
1.4	256QAM	1	3	18.11	18.26	17.93		
1.4	256QAM	1	5	18.12	17.97	18.00		
1.4	256QAM	3	0	18.03	18.11	17.95	19.5	
1.4	256QAM	3	1	18.01	18.13	18.09		
1.4	256QAM	3	3	18.13	18.09	18.20		
1.4	256QAM	6	0	17.92	17.93	18.40	19.5	



FDD LTE Band 12_Ant 3_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.55	22.60	22.51	24.5
10	QPSK	1	25	22.60	22.65	22.58	
10	QPSK	1	49	22.53	22.62	22.55	
10	QPSK	25	0	21.55	21.76	21.69	23.5
10	QPSK	25	12	21.51	21.69	21.64	
10	QPSK	25	25	21.55	21.70	21.66	
10	QPSK	50	0	21.56	21.71	21.67	
10	16QAM	1	0	22.07	21.92	21.59	23.5
10	16QAM	1	25	21.89	21.76	21.87	
10	16QAM	1	49	22.15	21.65	21.78	
10	16QAM	25	0	20.57	20.63	20.67	22.5
10	16QAM	25	12	20.71	20.60	20.62	
10	16QAM	25	25	20.62	20.56	20.71	
10	16QAM	50	0	20.65	20.54	20.67	
10	64QAM	1	0	21.05	21.04	20.77	22.5
10	64QAM	1	25	20.65	20.73	21.19	
10	64QAM	1	49	20.76	20.79	20.69	
10	64QAM	25	0	19.63	19.55	19.65	21.5
10	64QAM	25	12	19.72	19.70	19.58	
10	64QAM	25	25	19.54	19.58	19.66	
10	64QAM	50	0	19.60	19.60	19.77	
10	256QAM	1	0	17.59	17.61	17.63	19.5
10	256QAM	1	25	17.79	17.66	17.57	
10	256QAM	1	49	17.55	17.67	17.70	
10	256QAM	25	0	17.64	17.64	17.74	19.5
10	256QAM	25	12	17.70	17.72	17.76	
10	256QAM	25	25	17.73	17.64	17.69	
10	256QAM	50	0	17.71	17.72	17.77	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.58	22.61	22.59	24.5
5	QPSK	1	12	22.58	22.51	22.58	
5	QPSK	1	24	22.54	22.59	22.51	
5	QPSK	12	0	21.55	21.56	21.69	23.5
5	QPSK	12	7	21.59	21.57	21.54	
5	QPSK	12	13	21.52	21.50	21.50	
5	QPSK	25	0	21.50	21.67	21.61	
5	16QAM	1	0	22.01	21.74	21.59	23.5
5	16QAM	1	12	21.89	21.60	21.68	
5	16QAM	1	24	21.99	21.62	21.70	
5	16QAM	12	0	20.57	20.67	20.61	22.5
5	16QAM	12	7	20.64	20.55	20.68	
5	16QAM	12	13	20.63	20.52	20.80	
5	16QAM	25	0	20.66	20.53	20.75	
5	64QAM	1	0	21.07	20.98	20.76	22.5
5	64QAM	1	12	20.69	20.81	21.11	
5	64QAM	1	24	20.84	20.77	20.67	
5	64QAM	12	0	19.59	19.55	19.68	21.5
5	64QAM	12	7	19.67	19.75	19.59	
5	64QAM	12	13	19.64	19.57	19.64	
5	64QAM	25	0	19.59	19.62	19.82	
5	256QAM	1	0	17.68	17.71	17.73	19.5
5	256QAM	1	12	17.79	17.70	17.59	
5	256QAM	1	24	17.57	17.59	17.77	
5	256QAM	12	0	17.55	17.65	17.84	19.5
5	256QAM	12	7	17.68	17.70	17.83	
5	256QAM	12	13	17.67	17.61	17.61	
5	256QAM	25	0	17.63	17.66	17.72	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.58	22.62	22.57	24.5
3	QPSK	1	8	22.55	22.61	22.59	
3	QPSK	1	14	22.54	22.58	22.50	
3	QPSK	8	0	21.52	21.66	21.63	23.5
3	QPSK	8	4	21.56	21.52	21.51	
3	QPSK	8	7	21.50	21.51	21.58	
3	QPSK	15	0	21.56	21.81	21.70	
3	16QAM	1	0	21.97	21.99	21.64	23.5
3	16QAM	1	8	21.91	21.69	21.94	
3	16QAM	1	14	22.05	21.67	21.83	
3	16QAM	8	0	20.57	20.65	20.58	22.5
3	16QAM	8	4	20.73	20.67	20.57	
3	16QAM	8	7	20.53	20.52	20.80	
3	16QAM	15	0	20.66	20.54	20.69	
3	64QAM	1	0	21.14	21.03	20.85	22.5
3	64QAM	1	8	20.69	20.68	21.12	
3	64QAM	1	14	20.86	20.75	20.61	
3	64QAM	8	0	19.64	19.65	19.74	
3	64QAM	8	4	19.74	19.61	19.63	21.5
3	64QAM	8	7	19.61	19.65	19.70	
3	64QAM	15	0	19.57	19.51	19.81	
3	256QAM	1	0	17.58	17.63	17.72	19.5
3	256QAM	1	8	17.82	17.71	17.67	
3	256QAM	1	14	17.64	17.65	17.71	
3	256QAM	8	0	17.65	17.72	17.77	19.5
3	256QAM	8	4	17.68	17.77	17.78	
3	256QAM	8	7	17.69	17.68	17.69	
3	256QAM	15	0	17.81	17.79	17.84	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.56	22.53	22.50	24.5
1.4	QPSK	1	3	22.55	22.58	22.52	
1.4	QPSK	1	5	22.59	22.57	22.62	
1.4	QPSK	3	0	22.50	22.56	22.58	
1.4	QPSK	3	1	22.53	22.51	22.58	
1.4	QPSK	3	3	22.55	22.55	22.54	23.5
1.4	QPSK	6	0	21.56	21.64	21.62	
1.4	16QAM	1	0	21.93	21.76	21.55	
1.4	16QAM	1	3	21.73	21.68	21.76	23.5
1.4	16QAM	1	5	22.00	21.52	21.69	
1.4	16QAM	3	0	22.06	21.84	21.58	
1.4	16QAM	3	1	21.89	21.56	21.75	
1.4	16QAM	3	3	22.11	21.70	21.84	
1.4	16QAM	6	0	20.61	20.55	20.63	22.5
1.4	64QAM	1	0	21.07	21.06	20.82	22.5
1.4	64QAM	1	3	20.75	20.77	21.23	
1.4	64QAM	1	5	20.82	20.85	20.75	
1.4	64QAM	3	0	21.08	21.10	20.87	
1.4	64QAM	3	1	20.66	20.69	21.26	
1.4	64QAM	3	3	20.84	20.73	20.67	21.5
1.4	64QAM	6	0	19.60	19.62	19.74	
1.4	256QAM	1	0	17.61	17.66	17.64	
1.4	256QAM	1	3	17.74	17.66	17.66	19.5
1.4	256QAM	1	5	17.59	17.68	17.61	
1.4	256QAM	3	0	17.73	17.63	17.66	
1.4	256QAM	3	1	17.61	17.79	17.68	
1.4	256QAM	3	3	17.83	17.65	17.59	
1.4	256QAM	6	0	17.66	17.62	17.74	19.5



FDD LTE Band 17_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.74	22.82	22.83	24.5
10	QPSK	1	25	22.84	22.87	22.81	
10	QPSK	1	49	22.71	22.85	22.75	
10	QPSK	25	0	21.92	21.93	21.91	23.5
10	QPSK	25	12	21.74	21.88	21.80	
10	QPSK	25	25	21.75	21.92	21.82	
10	QPSK	50	0	21.79	22.00	21.91	23.5
10	16QAM	1	0	22.24	22.15	22.26	
10	16QAM	1	25	22.18	22.13	22.35	
10	16QAM	1	49	22.21	22.44	22.27	22.5
10	16QAM	25	0	20.97	20.89	20.91	
10	16QAM	25	12	20.94	20.97	21.01	
10	16QAM	25	25	20.91	20.92	20.97	22.5
10	16QAM	50	0	20.97	20.97	21.02	
10	64QAM	1	0	20.84	20.88	21.02	
10	64QAM	1	25	20.92	21.00	21.12	22.5
10	64QAM	1	49	21.01	21.11	21.24	
10	64QAM	25	0	19.86	19.94	19.87	
10	64QAM	25	12	19.98	19.99	20.00	21.5
10	64QAM	25	25	19.84	19.94	19.89	
10	64QAM	50	0	19.86	19.95	19.98	
10	256QAM	1	0	18.03	17.84	17.99	19.5
10	256QAM	1	25	17.93	17.81	18.13	
10	256QAM	1	49	17.94	17.88	18.00	
10	256QAM	25	0	17.94	17.95	18.06	19.5
10	256QAM	25	12	17.85	17.86	17.89	
10	256QAM	25	25	18.11	17.85	18.17	
10	256QAM	50	0	18.02	17.88	18.19	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.66	22.86	22.81	24.5
5	QPSK	1	12	22.75	22.82	22.85	
5	QPSK	1	24	22.68	22.73	22.52	
5	QPSK	12	0	21.87	21.89	21.81	23.5
5	QPSK	12	7	21.63	21.75	21.70	
5	QPSK	12	13	21.65	21.67	21.90	
5	QPSK	25	0	21.69	21.75	21.85	23.5
5	16QAM	1	0	22.25	22.10	22.20	
5	16QAM	1	12	22.14	21.96	22.36	
5	16QAM	1	24	22.18	22.35	22.30	22.5
5	16QAM	12	0	20.90	20.91	20.87	
5	16QAM	12	7	20.72	20.94	20.80	
5	16QAM	12	13	20.89	20.73	20.91	22.5
5	16QAM	25	0	20.95	20.91	20.92	
5	64QAM	1	0	20.69	20.87	20.79	
5	64QAM	1	12	20.84	20.95	21.07	22.5
5	64QAM	1	24	20.96	21.02	21.09	
5	64QAM	12	0	19.75	19.73	19.93	
5	64QAM	12	7	19.82	19.74	19.74	21.5
5	64QAM	12	13	19.73	19.86	19.71	
5	64QAM	25	0	19.77	19.78	19.81	
5	256QAM	1	0	18.00	17.81	17.98	19.5
5	256QAM	1	12	17.77	17.85	17.92	
5	256QAM	1	24	17.75	17.81	17.86	
5	256QAM	12	0	17.86	17.91	17.92	19.5
5	256QAM	12	7	17.88	17.72	17.75	
5	256QAM	12	13	18.01	17.69	17.93	
5	256QAM	25	0	18.05	17.83	18.09	



FDD LTE Band 17_Ant 3_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.44	22.60	22.43	24.5
10	QPSK	1	25	22.59	22.48	22.45	
10	QPSK	1	49	22.35	22.43	22.54	
10	QPSK	25	0	21.48	21.75	21.62	23.5
10	QPSK	25	12	21.49	21.64	21.46	
10	QPSK	25	25	21.52	21.65	21.62	
10	QPSK	50	0	21.38	21.59	21.51	23.5
10	16QAM	1	0	21.91	21.87	21.39	
10	16QAM	1	25	21.70	21.65	21.70	
10	16QAM	1	49	21.97	21.56	21.76	22.5
10	16QAM	25	0	20.52	20.43	20.54	
10	16QAM	25	12	20.53	20.51	20.45	
10	16QAM	25	25	20.45	20.44	20.65	22.5
10	16QAM	50	0	20.56	20.52	20.48	
10	64QAM	1	0	20.90	21.00	20.66	
10	64QAM	1	25	20.48	20.59	21.10	22.5
10	64QAM	1	49	20.65	20.64	20.55	
10	64QAM	25	0	19.45	19.49	19.63	
10	64QAM	25	12	19.67	19.50	19.48	21.5
10	64QAM	25	25	19.53	19.51	19.47	
10	64QAM	50	0	19.49	19.52	19.59	
10	256QAM	1	0	17.41	17.50	17.50	19.5
10	256QAM	1	25	17.75	17.56	17.41	
10	256QAM	1	49	17.55	17.49	17.57	
10	256QAM	25	0	17.54	17.52	17.61	19.5
10	256QAM	25	12	17.61	17.61	17.61	
10	256QAM	25	25	17.72	17.46	17.63	
10	256QAM	50	0	17.56	17.71	17.60	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.29	22.55	22.35	24.5
5	QPSK	1	12	22.48	22.30	22.29	
5	QPSK	1	24	22.26	22.42	22.49	
5	QPSK	12	0	21.38	21.57	21.62	23.5
5	QPSK	12	7	21.37	21.56	21.36	
5	QPSK	12	13	21.32	21.48	21.61	
5	QPSK	25	0	21.27	21.49	21.40	23.5
5	16QAM	1	0	21.78	21.70	21.29	
5	16QAM	1	12	21.62	21.56	21.68	
5	16QAM	1	24	21.97	21.44	21.75	22.5
5	16QAM	12	0	20.38	20.34	20.44	
5	16QAM	12	7	20.49	20.42	20.27	
5	16QAM	12	13	20.31	20.25	20.60	22.5
5	16QAM	25	0	20.47	20.52	20.44	
5	64QAM	1	0	20.85	20.86	20.61	
5	64QAM	1	12	20.29	20.56	20.92	22.5
5	64QAM	1	24	20.58	20.49	20.39	
5	64QAM	12	0	19.32	19.41	19.60	
5	64QAM	12	7	19.58	19.41	19.34	21.5
5	64QAM	12	13	19.40	19.31	19.37	
5	64QAM	25	0	19.37	19.42	19.54	
5	256QAM	1	0	17.32	17.30	17.39	19.5
5	256QAM	1	12	17.73	17.39	17.31	
5	256QAM	1	24	17.51	17.45	17.47	
5	256QAM	12	0	17.39	17.48	17.59	19.5
5	256QAM	12	7	17.45	17.58	17.61	
5	256QAM	12	13	17.64	17.31	17.55	
5	256QAM	25	0	17.53	17.65	17.40	



FDD LTE Band 25_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	22.89	23.22	23.17	24.5
20	QPSK	1	49	22.94	23.28	23.17	
20	QPSK	1	99	22.93	23.10	23.03	
20	QPSK	50	0	22.14	22.39	22.36	23.5
20	QPSK	50	24	22.15	22.30	22.22	
20	QPSK	50	50	22.02	22.37	22.32	
20	QPSK	100	0	22.05	22.32	22.16	23.5
20	16QAM	1	0	22.20	22.40	22.43	
20	16QAM	1	49	22.57	22.62	22.50	
20	16QAM	1	99	22.30	22.43	22.25	22.5
20	16QAM	50	0	21.08	21.25	21.40	
20	16QAM	50	24	21.13	21.33	21.32	
20	16QAM	50	50	21.11	21.36	21.33	22.5
20	16QAM	100	0	21.12	21.33	21.32	
20	64QAM	1	0	21.13	21.36	21.45	
20	64QAM	1	49	21.42	21.62	21.41	22.5
20	64QAM	1	99	21.26	21.37	21.27	
20	64QAM	50	0	20.00	20.30	20.31	
20	64QAM	50	24	20.10	20.41	20.29	21.5
20	64QAM	50	50	20.10	20.35	20.25	
20	64QAM	100	0	20.13	20.23	20.38	
20	256QAM	1	0	18.28	18.38	18.48	19.5
20	256QAM	1	49	18.43	18.34	18.44	
20	256QAM	1	99	18.38	18.52	18.49	
20	256QAM	50	0	18.32	18.36	18.45	19.5
20	256QAM	50	24	18.34	18.44	18.56	
20	256QAM	50	50	18.67	18.63	18.57	
20	256QAM	100	0	18.35	18.46	18.34	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	22.68	23.22	23.10	24.5
15	QPSK	1	37	22.91	23.23	23.07	
15	QPSK	1	74	22.82	22.98	22.86	
15	QPSK	36	0	21.97	22.29	22.31	23.5
15	QPSK	36	20	22.00	22.09	22.10	
15	QPSK	36	39	22.06	22.33	22.28	
15	QPSK	75	0	22.01	22.22	22.11	23.5
15	16QAM	1	0	22.03	22.18	22.19	
15	16QAM	1	37	22.52	22.44	22.32	
15	16QAM	1	74	22.22	22.30	22.19	22.5
15	16QAM	36	0	21.07	21.19	21.17	
15	16QAM	36	20	21.00	21.39	21.30	
15	16QAM	36	39	21.17	21.19	21.22	22.5
15	16QAM	75	0	21.06	21.14	21.32	
15	64QAM	1	0	21.14	21.36	21.41	
15	64QAM	1	37	21.26	21.56	21.31	22.5
15	64QAM	1	74	21.11	21.30	21.19	
15	64QAM	36	0	19.91	20.19	20.17	
15	64QAM	36	20	19.93	20.29	20.27	21.5
15	64QAM	36	39	20.05	20.22	20.14	
15	64QAM	75	0	19.97	20.15	20.20	
15	256QAM	1	0	18.14	18.23	18.49	19.5
15	256QAM	1	37	18.21	18.26	18.34	
15	256QAM	1	74	18.25	18.40	18.35	
15	256QAM	36	0	18.10	18.24	18.28	19.5
15	256QAM	36	20	18.28	18.26	18.37	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	18.52	18.45	18.44	
15	256QAM	75	0	18.22	18.33	18.21	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	22.83	23.23	23.05	24.5
10	QPSK	1	25	22.97	23.24	23.02	
10	QPSK	1	49	22.89	23.01	22.87	
10	QPSK	25	0	22.03	22.28	22.25	23.5
10	QPSK	25	12	21.85	22.26	22.20	
10	QPSK	25	25	21.97	22.12	22.17	
10	QPSK	50	0	21.95	22.28	22.11	
10	16QAM	1	0	22.09	22.39	22.26	23.5
10	16QAM	1	25	22.34	22.54	22.46	
10	16QAM	1	49	22.27	22.28	22.20	
10	16QAM	25	0	20.93	21.09	21.28	22.5
10	16QAM	25	12	21.06	21.30	21.26	
10	16QAM	25	25	21.06	21.20	21.28	
10	16QAM	50	0	21.06	21.17	21.18	
10	64QAM	1	0	21.10	21.23	21.44	22.5
10	64QAM	1	25	21.42	21.53	21.39	
10	64QAM	1	49	21.10	21.20	21.21	
10	64QAM	25	0	19.87	20.19	20.37	21.5
10	64QAM	25	12	20.08	20.23	20.23	
10	64QAM	25	25	20.00	20.20	20.26	
10	64QAM	50	0	20.09	20.23	20.20	
10	256QAM	1	0	18.32	18.37	18.46	19.5
10	256QAM	1	25	18.33	18.31	18.36	
10	256QAM	1	49	18.32	18.35	18.31	
10	256QAM	25	0	18.10	18.30	18.26	19.5
10	256QAM	25	12	18.33	18.36	18.39	
10	256QAM	25	25	18.48	18.58	18.42	
10	256QAM	50	0	18.15	18.35	18.39	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	22.73	23.20	22.97	24.5
5	QPSK	1	12	22.85	23.08	23.13	
5	QPSK	1	24	22.89	23.03	22.96	
5	QPSK	12	0	21.97	22.16	22.36	23.5
5	QPSK	12	7	22.04	22.25	22.09	
5	QPSK	12	13	21.97	22.30	22.23	
5	QPSK	25	0	21.94	22.31	22.07	
5	16QAM	1	0	22.16	22.39	22.33	23.5
5	16QAM	1	12	22.50	22.42	22.43	
5	16QAM	1	24	22.34	22.45	22.23	
5	16QAM	12	0	20.98	21.22	21.23	22.5
5	16QAM	12	7	20.98	21.22	21.21	
5	16QAM	12	13	21.11	21.34	21.24	
5	16QAM	25	0	21.13	21.30	21.36	
5	64QAM	1	0	21.16	21.31	21.46	22.5
5	64QAM	1	12	21.33	21.39	21.34	
5	64QAM	1	24	21.12	21.23	21.19	
5	64QAM	12	0	19.88	20.24	20.28	21.5
5	64QAM	12	7	19.97	20.36	20.27	
5	64QAM	12	13	19.92	20.34	20.17	
5	64QAM	25	0	20.00	20.21	20.34	
5	256QAM	1	0	18.32	18.22	18.45	19.5
5	256QAM	1	12	18.16	18.28	18.43	
5	256QAM	1	24	18.13	18.42	18.47	
5	256QAM	12	0	18.09	18.37	18.35	19.5
5	256QAM	12	7	18.12	18.34	18.34	
5	256QAM	12	13	18.65	18.52	18.49	
5	256QAM	25	0	18.36	18.33	18.35	



Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	22.83	22.96	23.05	24.5
3	QPSK	1	8	22.97	23.08	23.14	
3	QPSK	1	14	22.84	22.96	22.94	
3	QPSK	8	0	21.92	22.37	22.29	23.5
3	QPSK	8	4	22.02	22.25	22.14	
3	QPSK	8	7	22.12	22.22	22.04	
3	QPSK	15	0	22.05	22.33	22.04	
3	16QAM	1	0	22.16	22.32	22.35	23.5
3	16QAM	1	8	22.41	22.42	22.44	
3	16QAM	1	14	22.12	22.42	22.10	
3	16QAM	8	0	20.99	21.19	21.21	22.5
3	16QAM	8	4	21.13	21.30	21.32	
3	16QAM	8	7	21.09	21.23	21.32	
3	16QAM	15	0	21.09	21.17	21.25	
3	64QAM	1	0	20.96	21.21	21.38	22.5
3	64QAM	1	8	21.29	21.36	21.29	
3	64QAM	1	14	21.08	21.21	21.22	
3	64QAM	8	0	19.92	20.10	20.27	21.5
3	64QAM	8	4	20.08	20.33	20.31	
3	64QAM	8	7	20.00	20.25	20.21	
3	64QAM	15	0	20.03	20.14	20.36	
3	256QAM	1	0	18.12	18.23	18.40	19.5
3	256QAM	1	8	18.28	18.32	18.30	
3	256QAM	1	14	18.31	18.36	18.31	
3	256QAM	8	0	18.13	18.26	18.33	19.5
3	256QAM	8	4	18.28	18.37	18.41	
3	256QAM	8	7	18.60	18.59	18.54	
3	256QAM	15	0	18.28	18.45	18.35	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	22.69	23.23	23.12	24.5
1.4	QPSK	1	3	22.98	23.13	23.17	
1.4	QPSK	1	5	22.96	22.95	22.99	
1.4	QPSK	3	0	22.75	23.05	22.95	
1.4	QPSK	3	1	22.90	23.14	23.25	
1.4	QPSK	3	3	22.82	23.11	23.06	23.5
1.4	QPSK	6	0	22.05	22.20	22.08	
1.4	16QAM	1	0	22.03	22.23	22.44	23.5
1.4	16QAM	1	3	22.47	22.42	22.43	
1.4	16QAM	1	5	22.31	22.23	22.15	
1.4	16QAM	3	0	22.03	22.30	22.30	
1.4	16QAM	3	1	22.57	22.40	22.36	
1.4	16QAM	3	3	22.22	22.25	22.20	22.5
1.4	16QAM	6	0	21.08	21.25	21.25	
1.4	64QAM	1	0	21.02	21.34	21.42	22.5
1.4	64QAM	1	3	21.33	21.46	21.45	
1.4	64QAM	1	5	21.08	21.29	21.32	
1.4	64QAM	3	0	21.06	21.28	21.42	
1.4	64QAM	3	1	21.22	21.37	21.22	
1.4	64QAM	3	3	21.09	21.32	21.14	21.5
1.4	64QAM	6	0	20.16	20.17	20.27	
1.4	256QAM	1	0	18.15	18.27	18.36	19.5
1.4	256QAM	1	3	18.26	18.26	18.30	
1.4	256QAM	1	5	18.21	18.30	18.48	
1.4	256QAM	3	0	18.21	18.24	18.33	
1.4	256QAM	3	1	18.23	18.28	18.42	
1.4	256QAM	3	3	18.59	18.57	18.41	
1.4	256QAM	6	0	18.14	18.52	18.19	19.5



FDD LTE Band 25_Ant 4_State 0/1/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	22.52	22.50	22.64	24
20	QPSK	1	49	22.50	22.66	22.52	
20	QPSK	1	99	22.60	22.53	22.59	
20	QPSK	50	0	21.59	21.71	21.66	23
20	QPSK	50	24	21.52	21.65	21.62	
20	QPSK	50	50	21.69	21.68	21.56	
20	QPSK	100	0	21.65	22.70	21.56	23
20	16QAM	1	0	21.71	21.88	21.94	
20	16QAM	1	49	21.97	21.94	21.94	
20	16QAM	1	99	21.71	21.71	21.55	22
20	16QAM	50	0	20.64	20.70	20.68	
20	16QAM	50	24	20.56	20.76	20.64	
20	16QAM	50	50	20.53	20.72	20.62	22
20	16QAM	100	0	20.50	20.69	20.62	
20	64QAM	1	0	20.58	20.84	20.82	
20	64QAM	1	49	20.60	20.88	20.85	22
20	64QAM	1	99	20.52	20.67	20.55	
20	64QAM	50	0	19.65	19.68	19.67	
20	64QAM	50	24	19.52	19.78	19.66	21
20	64QAM	50	50	19.51	19.70	19.59	
20	64QAM	100	0	19.50	19.65	19.64	
20	256QAM	1	0	17.65	17.60	17.64	19
20	256QAM	1	49	17.68	17.66	17.65	
20	256QAM	1	99	17.60	17.54	17.52	
20	256QAM	50	0	17.57	17.54	17.54	19
20	256QAM	50	24	17.63	17.65	17.74	
20	256QAM	50	50	17.50	17.78	17.91	
20	256QAM	100	0	17.59	17.52	17.51	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	22.55	22.67	22.62	24
15	QPSK	1	37	22.52	22.54	22.60	
15	QPSK	1	74	22.60	22.68	22.50	
15	QPSK	36	0	21.54	21.58	21.56	23
15	QPSK	36	20	21.60	21.67	21.54	
15	QPSK	36	39	21.60	21.64	21.63	
15	QPSK	75	0	21.61	21.68	21.55	23
15	16QAM	1	0	21.71	21.95	21.83	
15	16QAM	1	37	21.59	21.85	21.80	
15	16QAM	1	74	21.70	21.70	21.52	22
15	16QAM	36	0	20.56	20.64	20.57	
15	16QAM	36	20	20.66	20.71	20.59	
15	16QAM	36	39	20.63	20.68	20.67	22
15	16QAM	75	0	20.65	20.68	20.57	
15	64QAM	1	0	20.51	20.74	20.56	
15	64QAM	1	37	20.67	20.87	20.83	22
15	64QAM	1	74	20.67	20.70	20.59	
15	64QAM	36	0	19.50	19.60	19.57	
15	64QAM	36	20	19.62	19.72	19.54	21
15	64QAM	36	39	19.62	19.67	19.66	
15	64QAM	75	0	19.63	19.68	19.54	
15	256QAM	1	0	17.58	17.63	17.69	19
15	256QAM	1	37	17.65	17.63	17.52	
15	256QAM	1	74	17.61	17.69	17.51	
15	256QAM	36	0	17.64	17.66	17.55	19
15	256QAM	36	20	17.50	17.54	17.74	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	17.54	17.72	17.74	
15	256QAM	75	0	17.51	17.50	17.63	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	22.59	22.54	22.58	24
10	QPSK	1	25	22.57	22.56	22.60	
10	QPSK	1	49	22.55	22.64	22.59	
10	QPSK	25	0	21.65	21.72	21.65	23
10	QPSK	25	12	21.54	21.81	21.65	
10	QPSK	25	25	21.68	21.78	21.61	
10	QPSK	50	0	21.50	21.78	21.64	
10	16QAM	1	0	21.86	22.05	21.89	23
10	16QAM	1	25	21.66	22.16	21.98	
10	16QAM	1	49	21.84	22.12	21.85	
10	16QAM	25	0	20.67	20.73	20.68	22
10	16QAM	25	12	20.54	20.85	20.68	
10	16QAM	25	25	20.51	20.81	20.62	
10	16QAM	50	0	20.51	20.81	20.66	
10	64QAM	1	0	20.56	20.97	20.90	22
10	64QAM	1	25	20.62	20.96	21.02	
10	64QAM	1	49	20.54	20.94	20.54	
10	64QAM	25	0	19.65	19.75	19.68	21
10	64QAM	25	12	19.55	19.85	19.71	
10	64QAM	25	25	19.53	19.80	19.63	
10	64QAM	50	0	19.51	19.80	19.63	
10	256QAM	1	0	17.58	17.67	17.62	19
10	256QAM	1	25	17.52	17.61	17.53	
10	256QAM	1	49	17.50	17.66	17.65	
10	256QAM	25	0	17.63	17.56	17.63	19
10	256QAM	25	12	17.53	17.60	17.59	
10	256QAM	25	25	17.63	17.68	17.82	
10	256QAM	50	0	17.56	17.52	17.61	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	22.59	22.57	22.52	24
5	QPSK	1	12	22.58	22.63	22.54	
5	QPSK	1	24	22.62	22.59	22.60	
5	QPSK	12	0	21.58	21.67	21.62	23
5	QPSK	12	7	21.67	21.77	21.50	
5	QPSK	12	13	21.67	21.73	21.63	
5	QPSK	25	0	21.65	21.75	21.51	
5	16QAM	1	0	21.60	22.17	21.93	23
5	16QAM	1	12	21.71	22.17	21.64	
5	16QAM	1	24	21.68	22.19	21.88	
5	16QAM	12	0	20.59	20.74	20.64	22
5	16QAM	12	7	20.56	20.84	20.61	
5	16QAM	12	13	20.51	20.81	20.58	
5	16QAM	25	0	20.69	20.79	20.64	
5	64QAM	1	0	20.67	20.93	20.81	22
5	64QAM	1	12	20.59	20.91	20.72	
5	64QAM	1	24	20.61	20.90	20.70	
5	64QAM	12	0	19.63	19.72	19.65	21
5	64QAM	12	7	19.47	19.84	19.64	
5	64QAM	12	13	19.44	19.80	19.41	
5	64QAM	25	0	19.48	19.82	19.64	
5	256QAM	1	0	17.53	17.69	17.68	19
5	256QAM	1	12	17.50	17.53	17.62	
5	256QAM	1	24	17.68	17.50	17.50	
5	256QAM	12	0	17.59	17.63	17.55	19
5	256QAM	12	7	17.61	17.50	17.54	
5	256QAM	12	13	17.61	17.70	17.76	
5	256QAM	25	0	17.64	17.51	17.68	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	22.54	22.61	22.60	24
3	QPSK	1	8	22.56	22.56	22.52	
3	QPSK	1	14	22.51	22.65	22.53	
3	QPSK	8	0	21.66	21.75	21.67	23
3	QPSK	8	4	21.63	21.75	21.57	
3	QPSK	8	7	21.62	21.75	21.54	
3	QPSK	15	0	21.62	21.72	21.55	
3	16QAM	1	0	21.70	22.08	21.77	23
3	16QAM	1	8	21.71	22.10	21.65	
3	16QAM	1	14	21.69	22.05	21.53	
3	16QAM	8	0	20.52	20.78	20.59	22
3	16QAM	8	4	20.51	20.85	20.67	
3	16QAM	8	7	20.67	20.82	20.54	
3	16QAM	15	0	20.66	20.78	20.61	
3	64QAM	1	0	20.70	20.90	20.77	22
3	64QAM	1	8	20.55	20.97	20.69	
3	64QAM	1	14	20.64	21.03	20.54	
3	64QAM	8	0	19.63	19.78	19.58	21
3	64QAM	8	4	19.48	19.84	19.53	
3	64QAM	8	7	19.46	19.83	19.37	
3	64QAM	15	0	19.42	19.77	19.48	
3	256QAM	1	0	17.59	17.58	17.60	19
3	256QAM	1	8	17.50	17.57	17.63	
3	256QAM	1	14	17.57	17.62	17.62	
3	256QAM	8	0	17.62	17.65	17.62	19
3	256QAM	8	4	17.57	17.53	17.61	
3	256QAM	8	7	17.52	17.78	17.71	
3	256QAM	15	0	17.59	17.61	17.67	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	22.52	22.51	22.54	24
1.4	QPSK	1	3	22.55	22.63	22.63	
1.4	QPSK	1	5	22.68	22.61	22.56	
1.4	QPSK	3	0	22.59	22.54	22.52	
1.4	QPSK	3	1	22.57	22.56	22.68	
1.4	QPSK	3	3	22.62	22.61	22.61	23
1.4	QPSK	6	0	21.57	21.72	21.57	
1.4	16QAM	1	0	21.72	22.09	21.61	23
1.4	16QAM	1	3	21.76	22.25	21.64	
1.4	16QAM	1	5	21.78	22.19	21.53	
1.4	16QAM	3	0	21.54	21.94	21.63	
1.4	16QAM	3	1	21.55	21.93	21.62	
1.4	16QAM	3	3	21.55	21.87	21.64	
1.4	16QAM	6	0	20.49	20.51	20.26	22
1.4	64QAM	1	0	20.68	20.94	20.60	22
1.4	64QAM	1	3	20.62	20.93	20.51	
1.4	64QAM	1	5	20.53	21.06	20.54	
1.4	64QAM	3	0	20.64	20.85	20.57	
1.4	64QAM	3	1	20.54	20.88	20.58	
1.4	64QAM	3	3	20.56	20.95	20.51	21
1.4	64QAM	6	0	19.59	19.80	19.56	
1.4	256QAM	1	0	17.57	17.67	17.59	19
1.4	256QAM	1	3	17.68	17.68	17.51	
1.4	256QAM	1	5	17.57	17.66	17.51	
1.4	256QAM	3	0	17.67	17.61	17.64	
1.4	256QAM	3	1	17.63	17.65	17.59	
1.4	256QAM	3	3	17.67	17.78	17.90	
1.4	256QAM	6	0	17.59	17.52	17.52	19



FDD LTE Band 25_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	20.92	21.09	21.06	22.5
20	QPSK	1	49	21.11	21.39	21.38	
20	QPSK	1	99	20.89	20.94	21.12	
20	QPSK	50	0	20.18	20.21	20.19	21.5
20	QPSK	50	24	20.08	20.11	20.15	
20	QPSK	50	50	19.97	20.01	19.96	
20	QPSK	100	0	19.79	19.96	19.95	21.5
20	16QAM	1	0	20.03	20.07	20.21	
20	16QAM	1	49	20.11	20.30	20.34	
20	16QAM	1	99	20.02	20.27	20.45	20.5
20	16QAM	50	0	18.84	19.00	19.17	
20	16QAM	50	24	19.04	19.16	19.16	
20	16QAM	50	50	19.10	19.17	19.25	20.5
20	16QAM	100	0	19.09	19.20	19.30	
20	64QAM	1	0	19.05	19.30	19.34	
20	64QAM	1	49	19.22	19.22	19.37	20.5
20	64QAM	1	99	19.08	19.26	19.48	
20	64QAM	50	0	17.92	18.00	18.26	
20	64QAM	50	24	18.05	18.15	18.16	19.5
20	64QAM	50	50	18.00	17.99	18.36	
20	64QAM	100	0	18.15	18.18	18.27	
20	256QAM	1	0	16.13	16.20	16.36	17.5
20	256QAM	1	49	16.23	16.22	16.41	
20	256QAM	1	99	16.10	16.31	16.57	
20	256QAM	50	0	15.99	16.04	16.23	17.5
20	256QAM	50	24	16.11	16.19	16.28	
20	256QAM	50	50	16.06	16.18	16.29	
20	256QAM	100	0	16.07	16.16	16.30	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	20.74	20.96	20.90	22.5
15	QPSK	1	37	20.99	21.21	21.20	
15	QPSK	1	74	20.70	20.75	20.96	
15	QPSK	36	0	20.18	20.17	20.18	21.5
15	QPSK	36	20	20.04	19.97	19.99	
15	QPSK	36	39	19.92	19.88	19.94	
15	QPSK	75	0	19.70	19.94	19.93	21.5
15	16QAM	1	0	19.99	20.01	20.06	
15	16QAM	1	37	20.11	20.19	20.28	
15	16QAM	1	74	20.01	20.26	20.39	20.5
15	16QAM	36	0	18.67	18.95	19.11	
15	16QAM	36	20	18.92	19.02	19.07	
15	16QAM	36	39	19.04	19.15	19.14	20.5
15	16QAM	75	0	18.97	19.19	19.15	
15	64QAM	1	0	18.94	19.25	19.22	
15	64QAM	1	37	19.20	19.08	19.26	20.5
15	64QAM	1	74	18.92	19.12	19.31	
15	64QAM	36	0	17.86	17.96	18.11	
15	64QAM	36	20	17.86	18.15	18.03	19.5
15	64QAM	36	39	17.98	17.89	18.34	
15	64QAM	75	0	18.06	17.99	18.23	
15	256QAM	1	0	15.99	16.00	16.17	17.5
15	256QAM	1	37	16.17	16.13	16.21	
15	256QAM	1	74	15.90	16.14	16.53	
15	256QAM	36	0	15.92	15.94	16.09	17.5
15	256QAM	36	20	16.05	16.09	16.19	



FCC SAR TEST REPORT

Report No. : FA210409

15	256QAM	36	39	16.05	16.12	16.11	
15	256QAM	75	0	15.93	16.15	16.26	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	20.76	20.92	20.93	22.5
10	QPSK	1	25	21.00	21.23	21.26	
10	QPSK	1	49	20.87	20.90	21.03	
10	QPSK	25	0	20.12	20.04	20.05	21.5
10	QPSK	25	12	19.89	20.03	20.08	
10	QPSK	25	25	19.87	20.01	19.86	
10	QPSK	50	0	19.68	19.81	19.91	
10	16QAM	1	0	19.99	19.96	20.13	21.5
10	16QAM	1	25	19.91	20.19	20.33	
10	16QAM	1	49	19.83	20.13	20.30	
10	16QAM	25	0	18.66	18.97	18.98	20.5
10	16QAM	25	12	19.02	18.99	19.05	
10	16QAM	25	25	18.90	19.00	19.09	
10	16QAM	50	0	19.03	19.18	19.24	
10	64QAM	1	0	19.03	19.12	19.26	20.5
10	64QAM	1	25	19.03	19.11	19.17	
10	64QAM	1	49	18.96	19.12	19.48	
10	64QAM	25	0	17.72	17.81	18.09	19.5
10	64QAM	25	12	18.00	17.98	18.13	
10	64QAM	25	25	17.88	17.80	18.35	
10	64QAM	50	0	18.13	17.98	18.21	
10	256QAM	1	0	15.94	16.11	16.19	17.5
10	256QAM	1	25	16.22	16.16	16.21	
10	256QAM	1	49	15.92	16.14	16.53	
10	256QAM	25	0	15.99	15.93	16.11	17.5
10	256QAM	25	12	16.02	16.00	16.17	
10	256QAM	25	25	16.06	16.01	16.13	
10	256QAM	50	0	15.87	16.07	16.17	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	20.87	21.03	21.04	22.5
5	QPSK	1	12	21.10	21.24	21.22	
5	QPSK	1	24	20.87	20.82	21.04	
5	QPSK	12	0	20.02	20.19	20.19	21.5
5	QPSK	12	7	19.98	20.07	20.12	
5	QPSK	12	13	19.91	20.00	19.78	
5	QPSK	25	0	19.68	19.78	19.87	
5	16QAM	1	0	19.93	20.06	20.04	21.5
5	16QAM	1	12	20.05	20.21	20.32	
5	16QAM	1	24	19.93	20.22	20.37	
5	16QAM	12	0	18.67	18.88	19.09	20.5
5	16QAM	12	7	19.01	19.12	18.96	
5	16QAM	12	13	19.02	18.99	19.21	
5	16QAM	25	0	18.96	19.00	19.25	
5	64QAM	1	0	18.90	19.17	19.22	20.5
5	64QAM	1	12	19.17	19.02	19.21	
5	64QAM	1	24	19.08	19.06	19.47	
5	64QAM	12	0	17.75	17.86	18.06	19.5
5	64QAM	12	7	17.99	18.08	18.13	
5	64QAM	12	13	17.99	17.86	18.25	
5	64QAM	25	0	18.00	17.98	18.25	
5	256QAM	1	0	15.93	16.05	16.33	17.5
5	256QAM	1	12	16.05	16.13	16.30	
5	256QAM	1	24	16.06	16.15	16.56	
5	256QAM	12	0	15.91	15.85	16.07	17.5
5	256QAM	12	7	16.01	16.06	16.22	
5	256QAM	12	13	15.94	16.15	16.29	
5	256QAM	25	0	15.97	16.09	16.16	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	20.90	20.99	20.98	22.5
3	QPSK	1	8	21.09	21.20	21.25	
3	QPSK	1	14	20.74	20.80	21.06	
3	QPSK	8	0	20.10	20.17	20.16	21.5
3	QPSK	8	4	19.89	20.11	19.97	
3	QPSK	8	7	19.91	19.82	19.87	
3	QPSK	15	0	19.63	19.88	19.91	
3	16QAM	1	0	19.95	20.04	20.09	21.5
3	16QAM	1	8	20.06	20.24	20.19	
3	16QAM	1	14	19.82	20.25	20.30	
3	16QAM	8	0	18.82	18.80	19.07	20.5
3	16QAM	8	4	18.90	19.01	19.00	
3	16QAM	8	7	19.10	19.13	19.08	
3	16QAM	15	0	19.06	19.15	19.13	
3	64QAM	1	0	18.95	19.11	19.32	20.5
3	64QAM	1	8	19.06	19.10	19.22	
3	64QAM	1	14	19.05	19.25	19.46	
3	64QAM	8	0	17.84	17.85	18.08	19.5
3	64QAM	8	4	17.92	17.96	18.14	
3	64QAM	8	7	17.95	17.95	18.30	
3	64QAM	15	0	17.99	18.10	18.22	
3	256QAM	1	0	16.02	16.08	16.27	17.5
3	256QAM	1	8	16.05	16.09	16.36	
3	256QAM	1	14	16.00	16.11	16.41	
3	256QAM	8	0	15.91	15.86	16.03	17.5
3	256QAM	8	4	16.10	16.00	16.18	
3	256QAM	8	7	15.93	16.04	16.11	
3	256QAM	15	0	16.03	16.12	16.21	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	20.84	21.02	21.00	22.5
1.4	QPSK	1	3	20.93	21.30	21.20	
1.4	QPSK	1	5	20.82	20.78	20.99	
1.4	QPSK	3	0	20.87	20.99	21.03	
1.4	QPSK	3	1	21.09	21.28	21.37	
1.4	QPSK	3	3	20.79	20.82	21.12	21.5
1.4	QPSK	6	0	19.72	19.83	19.85	
1.4	16QAM	1	0	19.85	20.03	20.17	21.5
1.4	16QAM	1	3	20.07	20.21	20.31	
1.4	16QAM	1	5	19.83	20.10	20.29	
1.4	16QAM	3	0	19.95	19.89	20.17	
1.4	16QAM	3	1	19.96	20.20	20.32	
1.4	16QAM	3	3	19.85	20.19	20.42	
1.4	16QAM	6	0	18.95	19.08	19.23	20.5
1.4	64QAM	1	0	18.92	19.17	19.15	20.5
1.4	64QAM	1	3	19.22	19.16	19.25	
1.4	64QAM	1	5	18.95	19.13	19.34	
1.4	64QAM	3	0	18.85	19.29	19.30	
1.4	64QAM	3	1	19.21	19.06	19.34	
1.4	64QAM	3	3	19.07	19.11	19.34	
1.4	64QAM	6	0	17.98	18.00	18.08	19.5
1.4	256QAM	1	0	16.00	16.12	16.16	17.5
1.4	256QAM	1	3	16.21	16.05	16.23	
1.4	256QAM	1	5	15.94	16.23	16.40	
1.4	256QAM	3	0	15.97	16.02	16.15	
1.4	256QAM	3	1	15.91	16.02	16.08	
1.4	256QAM	3	3	15.88	16.02	16.20	
1.4	256QAM	6	0	15.88	16.16	16.28	17.5



FDD LTE Band 26_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.88	22.96	22.89	24.5
15	QPSK	1	37	22.78	22.99	22.91	
15	QPSK	1	74	22.65	22.98	22.76	
15	QPSK	36	0	21.84	22.00	21.94	23.5
15	QPSK	36	20	21.84	21.93	21.86	
15	QPSK	36	39	21.78	21.99	21.98	
15	QPSK	75	0	21.85	22.08	21.99	23.5
15	16QAM	1	0	21.90	22.10	22.16	
15	16QAM	1	37	22.15	22.06	22.32	
15	16QAM	1	74	22.09	22.32	22.14	22.5
15	16QAM	36	0	20.87	20.97	20.83	
15	16QAM	36	20	20.87	21.04	20.94	
15	16QAM	36	39	20.85	21.13	20.99	22.5
15	16QAM	75	0	20.84	21.22	20.99	
15	64QAM	1	0	20.90	21.06	20.77	
15	64QAM	1	37	20.85	21.10	20.86	22.5
15	64QAM	1	74	20.85	20.97	21.04	
15	64QAM	36	0	19.83	19.93	19.93	
15	64QAM	36	20	19.88	20.10	19.91	21.5
15	64QAM	36	39	19.89	20.12	19.97	
15	64QAM	75	0	19.92	20.09	19.97	
15	256QAM	1	0	18.04	18.09	18.13	19.5
15	256QAM	1	37	18.04	18.15	18.28	
15	256QAM	1	74	18.04	18.22	18.26	
15	256QAM	36	0	18.05	18.22	18.28	19.5
15	256QAM	36	20	18.06	18.11	17.97	
15	256QAM	36	39	18.03	18.05	18.16	
15	256QAM	75	0	18.15	17.80	18.20	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.81	22.94	22.89	24.5
10	QPSK	1	25	22.76	22.75	22.95	
10	QPSK	1	49	22.67	22.85	22.70	
10	QPSK	25	0	21.71	21.99	21.88	23.5
10	QPSK	25	12	21.67	21.83	21.82	
10	QPSK	25	25	21.64	21.75	21.81	
10	QPSK	50	0	21.74	21.86	21.80	23.5
10	16QAM	1	0	21.77	22.06	22.13	
10	16QAM	1	25	22.20	21.92	22.31	
10	16QAM	1	49	21.88	22.29	21.93	22.5
10	16QAM	25	0	20.77	20.87	20.78	
10	16QAM	25	12	20.71	21.02	20.88	
10	16QAM	25	25	20.85	21.01	20.83	22.5
10	16QAM	50	0	20.82	21.08	20.92	
10	64QAM	1	0	20.78	21.03	20.66	
10	64QAM	1	25	20.76	21.12	20.69	22.5
10	64QAM	1	49	20.77	20.91	20.86	
10	64QAM	25	0	19.61	19.80	19.69	
10	64QAM	25	12	19.85	20.07	19.86	21.5
10	64QAM	25	25	19.91	19.93	19.90	
10	64QAM	50	0	19.85	20.04	19.84	
10	256QAM	1	0	17.90	18.05	18.04	19.5
10	256QAM	1	25	17.95	18.02	18.20	
10	256QAM	1	49	17.95	18.02	18.15	
10	256QAM	25	0	18.07	18.05	18.12	19.5
10	256QAM	25	12	18.03	17.96	18.00	



FCC SAR TEST REPORT

Report No. : FA210409

10	256QAM	25	25	18.00	17.94	17.98	
10	256QAM	50	0	17.93	17.73	18.15	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.69	22.90	22.75	24.5
5	QPSK	1	12	22.78	22.83	22.75	
5	QPSK	1	24	22.62	22.85	22.63	
5	QPSK	12	0	21.75	21.89	21.77	23.5
5	QPSK	12	7	21.69	21.91	21.83	
5	QPSK	12	13	21.80	21.86	21.82	
5	QPSK	25	0	21.72	21.93	21.78	
5	16QAM	1	0	21.77	22.00	22.05	23.5
5	16QAM	1	12	22.08	21.96	22.30	
5	16QAM	1	24	22.02	22.21	21.96	
5	16QAM	12	0	20.77	20.74	20.67	22.5
5	16QAM	12	7	20.91	20.93	20.85	
5	16QAM	12	13	20.74	21.11	20.97	
5	16QAM	25	0	20.72	20.97	20.86	
5	64QAM	1	0	20.87	21.02	20.78	
5	64QAM	1	12	20.77	20.93	20.90	22.5
5	64QAM	1	24	20.79	20.77	20.90	
5	64QAM	12	0	19.77	19.85	19.73	
5	64QAM	12	7	19.91	20.12	19.88	21.5
5	64QAM	12	13	19.85	20.10	19.75	
5	64QAM	25	0	19.79	20.05	19.85	
5	256QAM	1	0	18.02	18.05	18.00	
5	256QAM	1	12	17.94	18.06	18.06	19.5
5	256QAM	1	24	17.88	18.17	18.19	
5	256QAM	12	0	18.00	18.17	18.16	
5	256QAM	12	7	17.91	17.98	17.87	19.5
5	256QAM	12	13	18.01	17.87	18.13	
5	256QAM	12	0	18.04	17.76	18.10	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.74	22.88	22.76	24.5
3	QPSK	1	8	22.66	22.92	22.73	
3	QPSK	1	14	22.66	22.80	22.65	
3	QPSK	8	0	21.91	21.79	21.80	23.5
3	QPSK	8	4	21.74	21.90	21.81	
3	QPSK	8	7	21.75	21.94	21.84	
3	QPSK	15	0	21.82	22.11	21.88	
3	16QAM	1	0	21.90	21.94	21.95	23.5
3	16QAM	1	8	22.10	21.95	22.18	
3	16QAM	1	14	22.02	22.15	22.05	
3	16QAM	8	0	20.75	20.99	20.80	22.5
3	16QAM	8	4	20.88	20.91	20.81	
3	16QAM	8	7	20.80	21.08	20.93	
3	16QAM	15	0	20.74	21.09	20.86	
3	64QAM	1	0	20.88	20.81	20.66	22.5
3	64QAM	1	8	20.75	20.88	20.75	
3	64QAM	1	14	20.66	20.83	20.92	
3	64QAM	8	0	19.63	19.82	19.83	
3	64QAM	8	4	19.77	19.98	19.82	21.5
3	64QAM	8	7	19.69	19.91	19.89	
3	64QAM	15	0	19.74	19.88	19.76	
3	256QAM	1	0	17.91	18.10	18.05	
3	256QAM	1	8	17.93	18.02	18.25	19.5
3	256QAM	1	14	17.98	18.12	18.09	
3	256QAM	8	0	17.85	18.10	18.01	
3	256QAM	8	4	17.98	18.18	17.98	19.5
3	256QAM	8	7	17.79	17.99	18.04	
3	256QAM	15	0	18.07	17.75	18.12	



Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.77	22.89	22.72	24.5
1.4	QPSK	1	3	22.63	22.96	22.68	
1.4	QPSK	1	5	22.69	22.76	22.81	
1.4	QPSK	3	0	22.81	22.85	22.84	
1.4	QPSK	3	1	22.66	22.94	22.77	
1.4	QPSK	3	3	22.70	22.91	22.58	
1.4	QPSK	6	0	21.80	21.86	21.83	23.5
1.4	16QAM	1	0	21.88	21.98	22.13	23.5
1.4	16QAM	1	3	22.13	21.91	22.25	
1.4	16QAM	1	5	21.95	22.16	22.10	
1.4	16QAM	3	0	21.84	22.02	21.95	
1.4	16QAM	3	1	22.04	21.97	22.23	
1.4	16QAM	3	3	22.09	22.11	22.10	
1.4	16QAM	6	0	20.68	21.12	20.80	22.5
1.4	64QAM	1	0	20.80	20.84	20.56	22.5
1.4	64QAM	1	3	20.65	21.01	20.73	
1.4	64QAM	1	5	20.86	20.78	20.96	
1.4	64QAM	3	0	20.65	21.01	20.64	
1.4	64QAM	3	1	20.76	20.89	20.88	
1.4	64QAM	3	3	20.70	20.98	20.89	
1.4	64QAM	6	0	19.79	20.09	19.82	21.5
1.4	256QAM	1	0	17.85	18.10	18.19	19.5
1.4	256QAM	1	3	17.88	18.06	18.28	
1.4	256QAM	1	5	17.90	18.07	18.20	
1.4	256QAM	3	0	18.01	17.97	18.14	
1.4	256QAM	3	1	18.11	17.96	17.79	
1.4	256QAM	3	3	17.99	17.90	18.13	
1.4	256QAM	6	0	17.98	17.71	18.07	19.5



FDD LTE Band 26_Ant 3_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.53	22.57	22.50	24.5
15	QPSK	1	37	22.55	22.60	22.58	
15	QPSK	1	74	22.52	22.50	22.53	
15	QPSK	36	0	21.65	21.75	21.71	23.5
15	QPSK	36	20	21.59	21.63	21.66	
15	QPSK	36	39	21.55	21.70	21.66	
15	QPSK	75	0	21.68	21.98	21.69	23.5
15	16QAM	1	0	21.94	21.85	22.14	
15	16QAM	1	37	22.14	22.25	21.96	
15	16QAM	1	74	22.18	22.02	21.86	22.5
15	16QAM	36	0	20.70	20.78	20.70	
15	16QAM	36	20	20.68	20.83	20.67	
15	16QAM	36	39	20.77	20.94	20.78	22.5
15	16QAM	75	0	20.69	20.95	20.66	
15	64QAM	1	0	20.67	21.25	20.89	
15	64QAM	1	37	21.11	21.21	20.70	22.5
15	64QAM	1	74	20.79	20.85	20.80	
15	64QAM	36	0	19.68	19.85	19.62	
15	64QAM	36	20	19.76	19.85	19.71	21.5
15	64QAM	36	39	19.76	20.01	19.74	
15	64QAM	75	0	19.71	19.96	19.72	
15	256QAM	1	0	17.91	17.85	17.90	19.5
15	256QAM	1	37	17.80	17.83	17.82	
15	256QAM	1	74	17.97	17.92	17.83	
15	256QAM	36	0	17.88	17.88	17.73	19.5
15	256QAM	36	20	17.84	18.13	18.03	
15	256QAM	36	39	18.12	18.09	17.89	
15	256QAM	75	0	17.95	17.92	17.94	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.59	22.59	22.55	24.5
10	QPSK	1	25	22.51	22.55	22.52	
10	QPSK	1	49	22.55	22.54	22.54	
10	QPSK	25	0	21.64	21.57	21.67	23.5
10	QPSK	25	12	21.51	21.52	21.63	
10	QPSK	25	25	21.52	21.69	21.62	
10	QPSK	50	0	21.62	21.78	21.50	23.5
10	16QAM	1	0	21.90	21.68	22.03	
10	16QAM	1	25	22.08	22.08	21.76	
10	16QAM	1	49	22.10	21.90	21.67	22.5
10	16QAM	25	0	20.67	20.69	20.55	
10	16QAM	25	12	20.65	20.79	20.51	
10	16QAM	25	25	20.68	20.85	20.67	22.5
10	16QAM	50	0	20.50	20.89	20.57	
10	64QAM	1	0	20.65	21.05	20.85	
10	64QAM	1	25	21.05	21.14	20.58	22.5
10	64QAM	1	49	20.77	20.69	20.70	
10	64QAM	25	0	19.52	19.75	19.59	
10	64QAM	25	12	19.74	19.66	19.67	21.5
10	64QAM	25	25	19.70	19.94	19.66	
10	64QAM	50	0	19.51	19.83	19.65	
10	256QAM	1	0	17.75	17.72	17.73	19.5
10	256QAM	1	25	17.65	17.79	17.76	
10	256QAM	1	49	17.87	17.74	17.71	
10	256QAM	25	0	17.87	17.77	17.70	19.5
10	256QAM	25	12	17.65	18.04	17.85	



FCC SAR TEST REPORT

Report No. : FA210409

10	256QAM	25	25	17.99	17.96	17.72	
10	256QAM	50	0	17.78	17.77	17.76	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.55	22.53	22.50	24.5
5	QPSK	1	12	22.53	22.50	22.56	
5	QPSK	1	24	22.57	22.54	22.50	
5	QPSK	12	0	21.58	21.64	21.61	23.5
5	QPSK	12	7	21.50	21.52	21.50	
5	QPSK	12	13	21.52	21.51	21.58	
5	QPSK	25	0	21.58	21.94	21.52	
5	16QAM	1	0	21.86	21.74	22.10	23.5
5	16QAM	1	12	22.05	22.20	21.86	
5	16QAM	1	24	22.07	21.93	21.75	
5	16QAM	12	0	20.55	20.74	20.64	22.5
5	16QAM	12	7	20.58	20.75	20.56	
5	16QAM	12	13	20.74	20.92	20.75	
5	16QAM	25	0	20.63	20.77	20.62	
5	64QAM	1	0	20.51	21.23	20.79	22.5
5	64QAM	1	12	21.06	21.07	20.67	
5	64QAM	1	24	20.66	20.74	20.60	
5	64QAM	12	0	19.63	19.82	19.59	21.5
5	64QAM	12	7	19.64	19.74	19.64	
5	64QAM	12	13	19.57	19.88	19.69	
5	64QAM	25	0	19.56	19.80	19.68	
5	256QAM	1	0	17.78	17.75	17.79	19.5
5	256QAM	1	12	17.76	17.73	17.75	
5	256QAM	1	24	17.86	17.84	17.80	
5	256QAM	12	0	17.78	17.77	17.62	19.5
5	256QAM	12	7	17.83	17.94	17.95	
5	256QAM	12	13	18.08	17.89	17.87	
5	256QAM	25	0	17.86	17.81	17.79	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.46	22.53	22.33	24.5
3	QPSK	1	8	22.41	22.59	22.48	
3	QPSK	1	14	22.38	22.38	22.50	
3	QPSK	8	0	21.64	21.64	21.63	23.5
3	QPSK	8	4	21.44	21.60	21.46	
3	QPSK	8	7	21.37	21.52	21.55	
3	QPSK	15	0	21.57	21.90	21.65	
3	16QAM	1	0	21.90	21.69	22.04	23.5
3	16QAM	1	8	22.03	22.22	21.86	
3	16QAM	1	14	22.06	22.01	21.74	
3	16QAM	8	0	20.62	20.58	20.52	22.5
3	16QAM	8	4	20.59	20.72	20.52	
3	16QAM	8	7	20.66	20.85	20.73	
3	16QAM	15	0	20.59	20.82	20.62	
3	64QAM	1	0	20.56	21.10	20.77	22.5
3	64QAM	1	8	21.03	21.01	20.66	
3	64QAM	1	14	20.71	20.84	20.61	
3	64QAM	8	0	19.48	19.74	19.53	21.5
3	64QAM	8	4	19.64	19.74	19.69	
3	64QAM	8	7	19.58	19.88	19.55	
3	64QAM	15	0	19.58	19.82	19.54	
3	256QAM	1	0	17.78	17.82	17.80	19.5
3	256QAM	1	8	17.64	17.82	17.77	
3	256QAM	1	14	17.96	17.82	17.68	
3	256QAM	8	0	17.77	17.84	17.72	19.5
3	256QAM	8	4	17.73	18.07	17.88	
3	256QAM	8	7	18.05	18.08	17.88	
3	256QAM	15	0	17.89	17.90	17.92	



Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.33	22.55	22.36	24.5
1.4	QPSK	1	3	22.38	22.43	22.39	
1.4	QPSK	1	5	22.42	22.44	22.39	
1.4	QPSK	3	0	21.47	21.59	21.54	
1.4	QPSK	3	1	21.40	21.50	21.63	
1.4	QPSK	3	3	21.50	21.66	21.59	
1.4	QPSK	6	0	21.52	21.97	21.67	23.5
1.4	16QAM	1	0	21.76	21.77	22.00	23.5
1.4	16QAM	1	3	22.13	22.09	21.91	
1.4	16QAM	1	5	22.13	21.83	21.76	
1.4	16QAM	3	0	20.52	20.60	20.60	
1.4	16QAM	3	1	20.60	20.81	20.57	
1.4	16QAM	3	3	20.70	20.92	20.74	
1.4	16QAM	6	0	20.57	20.89	20.47	22.5
1.4	64QAM	1	0	20.52	21.16	20.86	22.5
1.4	64QAM	1	3	21.03	21.11	20.58	
1.4	64QAM	1	5	20.68	20.83	20.72	
1.4	64QAM	3	0	19.55	19.80	19.59	
1.4	64QAM	3	1	19.59	19.81	19.67	
1.4	64QAM	3	3	19.57	19.89	19.70	
1.4	64QAM	6	0	19.68	19.85	19.57	21.5
1.4	256QAM	1	0	17.78	17.82	17.82	19.5
1.4	256QAM	1	3	17.77	17.77	17.62	
1.4	256QAM	1	5	17.83	17.84	17.71	
1.4	256QAM	3	0	17.80	17.79	17.71	
1.4	256QAM	3	1	17.79	18.09	17.87	
1.4	256QAM	3	3	18.06	18.05	17.69	
1.4	256QAM	6	0	17.78	17.77	17.88	19.5



FDD LTE Band 30_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			24.5
Frequency (MHz)				2310			
10	QPSK	1	0		24.31		24.5
10	QPSK	1	25		24.36		
10	QPSK	1	49		24.32		
10	QPSK	25	0		23.32		23.5
10	QPSK	25	12		23.30		
10	QPSK	25	25		23.29		
10	QPSK	50	0		23.33		23.5
10	16QAM	1	0		23.35		
10	16QAM	1	25		23.16		
10	16QAM	1	49		23.22		22.5
10	16QAM	25	0		22.34		
10	16QAM	25	12		22.37		
10	16QAM	25	25		22.33		22.5
10	16QAM	50	0		22.36		
10	64QAM	1	0		22.04		
10	64QAM	1	25		22.10		22.5
10	64QAM	1	49		22.02		
10	64QAM	25	0		21.35		
10	64QAM	25	12		21.33		21.5
10	64QAM	25	25		21.33		
10	64QAM	50	0		21.41		
10	256QAM	1	0		19.38		19.5
10	256QAM	1	25		19.33		
10	256QAM	1	49		19.38		
10	256QAM	25	0		19.29		19.5
10	256QAM	25	12		19.32		
10	256QAM	25	25		19.29		
10	256QAM	50	0		19.41		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.21	24.28	24.11	24.5
5	QPSK	1	12	24.25	24.31	24.20	
5	QPSK	1	24	24.31	24.28	24.15	
5	QPSK	12	0	23.31	23.27	23.21	23.5
5	QPSK	12	7	23.20	23.28	23.21	
5	QPSK	12	13	23.28	23.33	23.20	
5	QPSK	25	0	23.32	23.41	23.31	23.5
5	16QAM	1	0	23.23	23.40	23.17	
5	16QAM	1	12	23.01	23.14	23.06	
5	16QAM	1	24	23.11	23.17	23.06	22.5
5	16QAM	12	0	22.18	22.36	22.32	
5	16QAM	12	7	22.31	22.36	22.21	
5	16QAM	12	13	22.16	22.31	22.14	22.5
5	16QAM	25	0	22.28	22.35	22.34	
5	64QAM	1	0	22.22	22.39	22.21	
5	64QAM	1	12	22.36	22.39	22.18	22.5
5	64QAM	1	24	22.22	22.34	22.13	
5	64QAM	12	0	21.23	21.32	21.13	
5	64QAM	12	7	21.14	21.26	21.17	21.5
5	64QAM	12	13	21.19	21.25	21.22	
5	64QAM	25	0	21.31	21.42	21.19	
5	256QAM	1	0	19.38	19.40	19.19	19.5
5	256QAM	1	12	19.25	19.40	19.14	
5	256QAM	1	24	19.29	19.43	19.29	
5	256QAM	12	0	19.20	19.24	19.10	19.5
5	256QAM	12	7	19.23	19.23	19.15	
5	256QAM	12	13	19.12	19.22	19.27	
5	256QAM	25	0	19.29	19.40	19.33	



FDD LTE Band 30_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			24.5
Frequency (MHz)				2310			
10	QPSK	1	0		22.76		24.5
10	QPSK	1	25		22.80		
10	QPSK	1	49		22.50		
10	QPSK	25	0		21.74		23.5
10	QPSK	25	12		21.72		
10	QPSK	25	25		21.73		
10	QPSK	50	0		21.75		23.5
10	16QAM	1	0		22.27		
10	16QAM	1	25		22.00		
10	16QAM	1	49		21.94		22.5
10	16QAM	25	0		20.75		
10	16QAM	25	12		20.74		
10	16QAM	25	25		20.78		22.5
10	16QAM	50	0		20.74		
10	64QAM	1	0		21.00		
10	64QAM	1	25		20.97		22.5
10	64QAM	1	49		20.88		
10	64QAM	25	0		19.74		
10	64QAM	25	12		19.76		21.5
10	64QAM	25	25		19.73		
10	64QAM	50	0		19.74		
10	256QAM	1	0		17.81		19.5
10	256QAM	1	25		17.79		
10	256QAM	1	49		17.70		
10	256QAM	25	0		17.66		19.5
10	256QAM	25	12		17.86		
10	256QAM	25	25		17.80		
10	256QAM	50	0		17.63		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.77	22.74	22.68	24.5
5	QPSK	1	12	22.63	22.71	22.65	
5	QPSK	1	24	22.71	22.72	22.51	
5	QPSK	12	0	21.78	21.70	21.66	23.5
5	QPSK	12	7	21.73	21.76	21.84	
5	QPSK	12	13	21.64	21.71	21.78	
5	QPSK	25	0	21.69	21.71	21.69	23.5
5	16QAM	1	0	22.17	22.14	22.01	
5	16QAM	1	12	22.29	22.09	22.31	
5	16QAM	1	24	22.09	22.02	22.03	22.5
5	16QAM	12	0	20.84	20.74	20.75	
5	16QAM	12	7	20.79	20.80	20.90	
5	16QAM	12	13	20.75	20.75	20.83	22.5
5	16QAM	25	0	20.69	20.74	20.73	
5	64QAM	1	0	20.94	21.05	20.99	
5	64QAM	1	12	21.06	20.96	21.04	22.5
5	64QAM	1	24	21.02	20.90	20.98	
5	64QAM	12	0	19.85	19.79	19.71	
5	64QAM	12	7	19.79	19.81	19.92	21.5
5	64QAM	12	13	19.69	19.75	19.85	
5	64QAM	25	0	19.68	19.71	19.72	
5	256QAM	1	0	17.86	17.56	17.69	19.5
5	256QAM	1	12	17.79	17.51	17.81	
5	256QAM	1	24	17.81	17.55	17.93	
5	256QAM	12	0	17.69	17.50	17.80	19.5
5	256QAM	12	7	17.74	17.85	17.81	
5	256QAM	12	13	17.53	17.84	17.69	
5	256QAM	25	0	17.59	17.64	17.99	



FDD LTE Band 30_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			19.5
Frequency (MHz)				2310			
10	QPSK	1	0		18.67		19.5
10	QPSK	1	25		18.68		
10	QPSK	1	49		18.55		
10	QPSK	25	0		17.33		18.5
10	QPSK	25	12		17.32		
10	QPSK	25	25		17.27		
10	QPSK	50	0		18.33		18.5
10	16QAM	1	0		18.36		
10	16QAM	1	25		18.54		
10	16QAM	1	49		18.52		17.5
10	16QAM	25	0		17.32		
10	16QAM	25	12		17.28		
10	16QAM	25	25		17.31		17.5
10	16QAM	50	0		17.86		
10	64QAM	1	0		17.37		
10	64QAM	1	25		17.48		17.5
10	64QAM	1	49		17.39		
10	64QAM	25	0		16.34		
10	64QAM	25	12		16.33		16.5
10	64QAM	25	25		16.33		
10	64QAM	50	0		16.92		
10	256QAM	1	0		14.41		14.5
10	256QAM	1	25		14.58		
10	256QAM	1	49		14.38		
10	256QAM	25	0		14.36		14.5
10	256QAM	25	12		14.40		
10	256QAM	25	25		14.44		
10	256QAM	50	0		14.36		
Channel				27685	27710	27735	19.5
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	18.48	18.60	18.51	19.5
5	QPSK	1	12	18.56	18.56	18.52	
5	QPSK	1	24	18.49	18.39	18.49	
5	QPSK	12	0	17.24	17.22	17.28	18.5
5	QPSK	12	7	17.25	17.30	17.30	
5	QPSK	12	13	17.09	17.23	17.10	
5	QPSK	25	0	18.16	18.15	18.25	18.5
5	16QAM	1	0	18.35	18.29	18.32	
5	16QAM	1	12	18.45	18.50	18.37	
5	16QAM	1	24	18.33	18.35	18.42	17.5
5	16QAM	12	0	17.23	17.12	17.26	
5	16QAM	12	7	17.15	17.10	17.27	
5	16QAM	12	13	17.15	17.21	17.23	17.5
5	16QAM	25	0	17.78	17.76	17.84	
5	64QAM	1	0	17.29	17.28	17.24	
5	64QAM	1	12	17.46	17.47	17.40	17.5
5	64QAM	1	24	17.34	17.25	17.35	
5	64QAM	12	0	16.33	16.21	16.26	
5	64QAM	12	7	16.30	16.15	16.25	16.5
5	64QAM	12	13	16.27	16.23	16.17	
5	64QAM	25	0	16.83	16.87	16.76	
5	256QAM	1	0	14.41	14.39	14.35	14.5
5	256QAM	1	12	14.57	14.51	14.41	
5	256QAM	1	24	14.24	14.36	14.35	
5	256QAM	12	0	14.20	14.34	14.32	14.5
5	256QAM	12	7	14.32	14.28	14.34	
5	256QAM	12	13	14.25	14.40	14.26	
5	256QAM	25	0	14.25	14.35	14.34	



FDD LTE Band 30_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			16
Frequency (MHz)				2310			
10	QPSK	1	0		15.53		16
10	QPSK	1	25		15.75		
10	QPSK	1	49		15.74		
10	QPSK	25	0		14.73		15
10	QPSK	25	12		14.72		
10	QPSK	25	25		14.67		
10	QPSK	50	0		14.63		15
10	16QAM	1	0		14.79		
10	16QAM	1	25		15.03		
10	16QAM	1	49		14.58		14
10	16QAM	25	0		13.56		
10	16QAM	25	12		13.58		
10	16QAM	25	25		13.77		14
10	16QAM	50	0		13.58		
10	64QAM	1	0		13.62		
10	64QAM	1	25		13.59		14
10	64QAM	1	49		13.58		
10	64QAM	25	0		12.62		
10	64QAM	25	12		12.70		13
10	64QAM	25	25		12.65		
10	64QAM	50	0		12.55		
10	256QAM	1	0		10.72		11
10	256QAM	1	25		10.72		
10	256QAM	1	49		10.84		
10	256QAM	25	0		10.59		11
10	256QAM	25	12		10.59		
10	256QAM	25	25		10.66		
10	256QAM	50	0		10.47		
Channel				27685	27710	27735	16
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	15.39	15.47	15.36	16
5	QPSK	1	12	15.68	15.68	15.68	
5	QPSK	1	24	15.69	15.54	15.56	
5	QPSK	12	0	14.62	14.63	14.43	15
5	QPSK	12	7	14.61	14.57	14.50	
5	QPSK	12	13	14.65	14.61	14.51	
5	QPSK	25	0	14.56	14.45	14.51	15
5	16QAM	1	0	14.63	14.66	14.46	
5	16QAM	1	12	14.97	14.84	14.96	
5	16QAM	1	24	14.50	14.56	14.37	14
5	16QAM	12	0	13.54	13.50	13.51	
5	16QAM	12	7	13.43	13.38	13.27	
5	16QAM	12	13	13.71	13.63	13.54	14
5	16QAM	25	0	13.57	13.46	13.53	
5	64QAM	1	0	13.55	13.48	13.49	
5	64QAM	1	12	13.51	13.42	13.34	14
5	64QAM	1	24	13.48	13.58	13.41	
5	64QAM	12	0	12.44	12.46	12.30	
5	64QAM	12	7	12.61	12.58	12.58	13
5	64QAM	12	13	12.62	12.46	12.56	
5	64QAM	25	0	12.52	12.49	12.34	
5	256QAM	1	0	10.71	10.65	10.52	11
5	256QAM	1	12	10.71	10.66	10.71	
5	256QAM	1	24	10.66	10.72	10.51	
5	256QAM	12	0	10.57	10.56	10.55	11
5	256QAM	12	7	10.42	10.48	10.34	
5	256QAM	12	13	10.58	10.55	10.51	
5	256QAM	25	0	10.34	10.46	10.15	



FDD LTE Band 30_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			23.5
Frequency (MHz)				2310			
10	QPSK	1	0		22.76		23.5
10	QPSK	1	25		22.80		
10	QPSK	1	49		22.50		
10	QPSK	25	0		21.74		22.5
10	QPSK	25	12		21.72		
10	QPSK	25	25		21.73		
10	QPSK	50	0		21.75		22.5
10	16QAM	1	0		22.27		
10	16QAM	1	25		22.00		
10	16QAM	1	49		21.94		22.5
10	16QAM	25	0		20.75		
10	16QAM	25	12		20.74		
10	16QAM	25	25		20.78		21.5
10	16QAM	50	0		20.74		
10	64QAM	1	0		21.00		
10	64QAM	1	25		20.97		21.5
10	64QAM	1	49		20.88		
10	64QAM	25	0		19.74		
10	64QAM	25	12		19.76		20.5
10	64QAM	25	25		19.73		
10	64QAM	50	0		19.74		
10	256QAM	1	0		17.81		18.5
10	256QAM	1	25		17.79		
10	256QAM	1	49		17.70		
10	256QAM	25	0		17.66		18.5
10	256QAM	25	12		17.86		
10	256QAM	25	25		17.80		
10	256QAM	50	0		17.63		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.77	22.74	22.68	23.5
5	QPSK	1	12	22.63	22.71	22.65	
5	QPSK	1	24	22.71	22.72	22.51	
5	QPSK	12	0	21.78	21.70	21.66	22.5
5	QPSK	12	7	21.73	21.76	21.84	
5	QPSK	12	13	21.64	21.71	21.78	
5	QPSK	25	0	21.69	21.71	21.69	22.5
5	16QAM	1	0	22.17	22.14	22.01	
5	16QAM	1	12	22.29	22.09	22.31	
5	16QAM	1	24	22.09	22.02	22.03	22.5
5	16QAM	12	0	20.84	20.74	20.75	
5	16QAM	12	7	20.79	20.80	20.90	
5	16QAM	12	13	20.75	20.75	20.83	21.5
5	16QAM	25	0	20.69	20.74	20.73	
5	64QAM	1	0	20.94	21.05	20.99	
5	64QAM	1	12	21.06	20.96	21.04	21.5
5	64QAM	1	24	21.02	20.90	20.98	
5	64QAM	12	0	19.85	19.79	19.71	
5	64QAM	12	7	19.79	19.81	19.92	20.5
5	64QAM	12	13	19.69	19.75	19.85	
5	64QAM	25	0	19.68	19.71	19.72	
5	256QAM	1	0	17.86	17.56	17.69	18.5
5	256QAM	1	12	17.79	17.51	17.81	
5	256QAM	1	24	17.81	17.55	17.93	
5	256QAM	12	0	17.69	17.50	17.80	18.5
5	256QAM	12	7	17.74	17.85	17.81	
5	256QAM	12	13	17.53	17.84	17.69	
5	256QAM	25	0	17.59	17.64	17.99	



FDD LTE Band 66_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.65	22.65	22.60	24.5
20	QPSK	1	49	22.51	22.83	22.69	
20	QPSK	1	99	22.65	22.64	22.63	
20	QPSK	50	0	21.53	21.76	21.70	23.5
20	QPSK	50	24	21.67	21.71	21.69	
20	QPSK	50	50	21.69	21.72	21.67	
20	QPSK	100	0	21.69	21.70	21.64	
20	16QAM	1	0	21.88	21.81	21.92	23.5
20	16QAM	1	49	21.99	22.27	21.99	
20	16QAM	1	99	21.90	22.02	22.04	
20	16QAM	50	0	20.69	20.71	20.75	22.5
20	16QAM	50	24	20.56	20.75	20.80	
20	16QAM	50	50	20.69	20.73	20.88	
20	16QAM	100	0	20.69	20.63	20.85	
20	64QAM	1	0	20.64	20.69	20.99	22.5
20	64QAM	1	49	20.73	21.11	21.04	
20	64QAM	1	99	20.79	20.86	20.70	
20	64QAM	50	0	19.89	19.97	20.02	21.5
20	64QAM	50	24	19.75	19.91	20.05	
20	64QAM	50	50	19.80	19.96	20.07	
20	64QAM	100	0	19.79	19.90	19.98	
20	256QAM	1	0	17.85	17.92	18.11	19.5
20	256QAM	1	49	17.94	17.88	18.10	
20	256QAM	1	99	17.95	17.87	18.21	
20	256QAM	50	0	17.94	17.92	18.14	19.5
20	256QAM	50	24	18.13	17.78	18.09	
20	256QAM	50	50	18.12	18.16	18.09	
20	256QAM	100	0	17.99	18.14	18.01	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.56	22.63	22.58	24.5
15	QPSK	1	37	22.69	22.64	22.67	
15	QPSK	1	74	22.63	22.64	22.68	
15	QPSK	36	0	21.58	21.71	21.54	23.5
15	QPSK	36	20	21.68	21.60	21.67	
15	QPSK	36	39	21.53	21.65	21.65	
15	QPSK	75	0	21.52	21.65	21.66	
15	16QAM	1	0	21.56	21.60	21.68	23.5
15	16QAM	1	37	21.92	22.13	21.94	
15	16QAM	1	74	21.64	21.97	21.87	
15	16QAM	36	0	20.64	20.62	20.75	22.5
15	16QAM	36	20	20.54	20.61	20.80	
15	16QAM	36	39	20.64	20.60	20.76	
15	16QAM	75	0	20.68	20.62	20.58	
15	64QAM	1	0	20.58	20.51	20.92	22.5
15	64QAM	1	37	20.70	20.95	21.00	
15	64QAM	1	74	20.60	20.78	20.62	
15	64QAM	36	0	19.52	19.58	19.82	21.5
15	64QAM	36	20	19.53	19.58	19.84	
15	64QAM	36	39	19.57	19.64	19.69	
15	64QAM	75	0	19.54	19.63	19.78	
15	256QAM	1	0	17.65	17.82	17.95	19.5
15	256QAM	1	37	17.82	17.85	17.90	
15	256QAM	1	74	17.81	17.78	18.01	
15	256QAM	36	0	17.77	17.74	17.94	19.5
15	256QAM	36	20	18.12	17.59	18.09	
15	256QAM	36	39	18.03	18.15	18.02	
15	256QAM	75	0	17.82	17.94	17.94	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.50	22.51	22.53	24.5
10	QPSK	1	25	22.58	22.75	22.63	
10	QPSK	1	49	22.56	22.66	22.68	
10	QPSK	25	0	21.60	21.72	21.51	23.5
10	QPSK	25	12	21.67	21.63	21.56	
10	QPSK	25	25	21.57	21.68	21.50	
10	QPSK	50	0	21.59	21.70	21.53	23.5
10	16QAM	1	0	21.61	21.50	21.60	
10	16QAM	1	25	21.92	22.19	21.91	
10	16QAM	1	49	21.77	21.98	21.93	22.5
10	16QAM	25	0	20.55	20.58	20.66	
10	16QAM	25	12	20.52	20.64	20.72	
10	16QAM	25	25	20.63	20.54	20.88	22.5
10	16QAM	50	0	20.57	20.52	20.74	
10	64QAM	1	0	20.56	20.66	20.86	
10	64QAM	1	25	20.62	20.96	20.91	21.5
10	64QAM	1	49	20.52	20.88	20.69	
10	64QAM	25	0	19.54	19.53	19.76	
10	64QAM	25	12	19.53	19.56	19.70	19.5
10	64QAM	25	25	19.54	19.58	19.72	
10	64QAM	50	0	19.54	19.67	19.79	
10	256QAM	1	0	17.70	17.73	18.09	19.5
10	256QAM	1	25	17.90	17.85	17.91	
10	256QAM	1	49	17.87	17.69	18.07	
10	256QAM	25	0	17.79	17.83	18.14	19.5
10	256QAM	25	12	18.07	17.71	18.04	
10	256QAM	25	25	18.10	18.16	18.04	
10	256QAM	50	0	17.91	18.05	18.01	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.51	22.59	22.53	24.5
5	QPSK	1	12	22.66	22.67	22.59	
5	QPSK	1	24	22.51	22.62	22.51	
5	QPSK	12	0	21.54	21.71	21.63	23.5
5	QPSK	12	7	21.54	21.59	21.69	
5	QPSK	12	13	21.52	21.59	21.64	
5	QPSK	25	0	21.51	21.57	21.72	23.5
5	16QAM	1	0	21.70	21.56	21.66	
5	16QAM	1	12	21.93	22.18	21.94	
5	16QAM	1	24	21.62	21.94	22.03	22.5
5	16QAM	12	0	20.52	20.67	20.61	
5	16QAM	12	7	20.57	20.65	20.64	
5	16QAM	12	13	20.64	20.74	20.72	22.5
5	16QAM	25	0	20.58	20.57	20.77	
5	64QAM	1	0	20.65	20.60	20.96	
5	64QAM	1	12	20.63	21.02	20.88	21.5
5	64QAM	1	24	20.56	20.66	20.65	
5	64QAM	12	0	19.67	19.63	19.64	
5	64QAM	12	7	19.57	19.66	19.82	19.5
5	64QAM	12	13	19.52	19.67	19.73	
5	64QAM	25	0	19.56	19.63	19.83	
5	256QAM	1	0	17.81	17.86	17.93	19.5
5	256QAM	1	12	17.85	17.82	18.02	
5	256QAM	1	24	17.79	17.84	18.17	
5	256QAM	12	0	17.86	17.80	17.99	19.5
5	256QAM	12	7	18.03	17.62	18.01	
5	256QAM	12	13	18.08	18.06	17.91	
5	256QAM	25	0	17.99	18.04	18.00	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.50	22.65	22.52	24.5
3	QPSK	1	8	22.66	22.66	22.61	



FCC SAR TEST REPORT

Report No. : FA210409

3	QPSK	1	14	22.52	22.52	22.61	23.5	
3	QPSK	8	0	21.60	21.69	21.63		
3	QPSK	8	4	21.50	21.63	21.57		
3	QPSK	8	7	21.51	21.59	21.59		
3	QPSK	15	0	21.60	21.53	21.69	23.5	
3	16QAM	1	0	21.62	21.72	21.67		
3	16QAM	1	8	21.80	22.02	21.79		
3	16QAM	1	14	21.62	21.98	21.99		
3	16QAM	8	0	20.54	20.63	20.62	22.5	
3	16QAM	8	4	20.50	20.67	20.77		
3	16QAM	8	7	20.54	20.64	20.84		
3	16QAM	15	0	20.63	20.66	20.86		
3	64QAM	1	0	20.63	20.62	21.03	22.5	
3	64QAM	1	8	20.81	20.89	20.94		
3	64QAM	1	14	20.61	20.70	20.67		
3	64QAM	8	0	19.55	19.69	19.67		
3	64QAM	8	4	19.60	19.69	19.70	21.5	
3	64QAM	8	7	19.68	19.67	19.74		
3	64QAM	15	0	19.55	19.59	19.74		
3	256QAM	1	0	17.75	17.73	17.93		
3	256QAM	1	8	17.89	17.70	18.04	19.5	
3	256QAM	1	14	17.75	17.81	18.16		
3	256QAM	8	0	17.84	17.87	17.99		
3	256QAM	8	4	17.95	17.63	18.03		
3	256QAM	8	7	17.96	18.09	17.97	19.5	
3	256QAM	15	0	17.96	17.97	17.84		
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.53	22.60	22.50	24.5	
1.4	QPSK	1	3	22.54	22.63	22.52		
1.4	QPSK	1	5	22.56	22.68	22.58		
1.4	QPSK	3	0	22.57	22.53	22.55		
1.4	QPSK	3	1	22.63	22.68	22.65		
1.4	QPSK	3	3	22.65	22.67	22.66		
1.4	QPSK	6	0	21.56	21.71	21.57	23.5	
1.4	16QAM	1	0	21.53	21.75	21.60	23.5	
1.4	16QAM	1	3	21.97	22.17	21.94		
1.4	16QAM	1	5	21.80	22.01	22.06		
1.4	16QAM	3	0	21.61	21.61	21.60		
1.4	16QAM	3	1	21.97	22.11	21.90		
1.4	16QAM	3	3	21.74	21.94	22.00		
1.4	16QAM	6	0	20.54	20.64	20.68	22.5	
1.4	64QAM	1	0	20.59	20.65	20.87	22.5	
1.4	64QAM	1	3	20.59	21.04	20.97		
1.4	64QAM	1	5	20.56	20.81	20.61		
1.4	64QAM	3	0	20.67	20.63	20.91		
1.4	64QAM	3	1	20.72	20.87	20.89		
1.4	64QAM	3	3	20.65	20.71	20.64		
1.4	64QAM	6	0	19.60	19.58	19.65	21.5	
1.4	256QAM	1	0	17.75	17.73	17.99	19.5	
1.4	256QAM	1	3	17.86	17.84	18.07		
1.4	256QAM	1	5	17.91	17.86	18.13		
1.4	256QAM	3	0	17.75	17.81	18.10		
1.4	256QAM	3	1	17.98	17.61	18.08		
1.4	256QAM	3	3	18.11	18.06	17.89		
1.4	256QAM	6	0	17.90	18.01	17.81		19.5



FDD LTE Band 66_Ant 4_State 0/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.60	22.69	22.66	24.5
20	QPSK	1	49	22.75	22.80	22.69	
20	QPSK	1	99	22.74	22.77	22.64	
20	QPSK	50	0	21.86	21.97	21.73	23.5
20	QPSK	50	24	21.79	21.91	21.66	
20	QPSK	50	50	21.82	21.95	21.68	
20	QPSK	100	0	21.78	22.21	21.79	
20	16QAM	1	0	21.87	21.99	21.93	23.5
20	16QAM	1	49	21.91	21.96	21.86	
20	16QAM	1	99	21.99	21.95	21.86	
20	16QAM	50	0	20.72	20.96	20.72	22.5
20	16QAM	50	24	20.83	20.97	20.70	
20	16QAM	50	50	20.79	20.94	20.67	
20	16QAM	100	0	20.78	20.91	20.65	
20	64QAM	1	0	20.70	20.96	20.90	22.5
20	64QAM	1	49	20.94	20.99	20.93	
20	64QAM	1	99	20.99	21.00	20.89	
20	64QAM	50	0	19.72	19.96	19.65	21.5
20	64QAM	50	24	19.83	19.98	19.68	
20	64QAM	50	50	19.74	19.93	19.71	
20	64QAM	100	0	19.79	19.61	19.63	
20	256QAM	1	0	17.81	17.86	17.82	19.5
20	256QAM	1	49	17.87	17.72	17.78	
20	256QAM	1	99	17.69	17.80	17.61	
20	256QAM	50	0	17.74	17.97	17.75	19.5
20	256QAM	50	24	17.79	17.91	17.97	
20	256QAM	50	50	17.76	17.89	17.87	
20	256QAM	100	0	17.92	17.97	17.96	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.52	22.62	22.60	24.5
15	QPSK	1	37	22.62	22.65	22.60	
15	QPSK	1	74	22.61	22.72	22.53	
15	QPSK	36	0	21.81	21.94	21.60	23.5
15	QPSK	36	20	21.68	21.79	21.63	
15	QPSK	36	39	21.73	21.93	21.60	
15	QPSK	75	0	21.68	21.90	21.77	
15	16QAM	1	0	21.72	22.32	21.80	23.5
15	16QAM	1	37	21.79	21.83	21.88	
15	16QAM	1	74	21.93	21.82	21.79	
15	16QAM	36	0	20.65	20.92	20.70	22.5
15	16QAM	36	20	20.82	20.89	20.56	
15	16QAM	36	39	20.72	20.79	20.61	
15	16QAM	75	0	20.67	20.88	20.62	
15	64QAM	1	0	20.70	20.98	20.83	22.5
15	64QAM	1	37	20.96	20.86	20.82	
15	64QAM	1	74	20.98	20.98	20.78	
15	64QAM	36	0	19.67	19.82	19.53	21.5
15	64QAM	36	20	19.81	19.96	19.60	
15	64QAM	36	39	19.65	19.80	19.69	
15	64QAM	75	0	19.66	19.51	19.50	
15	256QAM	1	0	17.89	17.78	17.77	19.5
15	256QAM	1	37	17.85	17.67	17.75	
15	256QAM	1	74	17.61	17.79	17.53	
15	256QAM	36	0	17.61	17.85	17.73	19.5
15	256QAM	36	20	17.68	17.85	17.92	
15	256QAM	36	39	17.88	17.76	17.84	
15	256QAM	75	0	17.90	17.93	17.90	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.60	22.60	22.53	24.5
10	QPSK	1	25	22.64	22.71	22.63	
10	QPSK	1	49	22.64	22.65	22.52	
10	QPSK	25	0	21.76	21.91	21.63	23.5
10	QPSK	25	12	21.77	21.81	21.52	
10	QPSK	25	25	21.72	21.92	21.58	
10	QPSK	50	0	21.75	22.18	21.64	
10	16QAM	1	0	21.74	22.24	21.84	23.5
10	16QAM	1	25	21.89	21.90	21.88	
10	16QAM	1	49	21.99	21.84	21.80	
10	16QAM	25	0	20.70	20.83	20.66	22.5
10	16QAM	25	12	20.69	20.97	20.58	
10	16QAM	25	25	20.65	20.88	20.67	
10	16QAM	50	0	20.64	21.18	20.52	
10	64QAM	1	0	20.66	20.95	20.79	22.5
10	64QAM	1	25	20.89	20.89	20.81	
10	64QAM	1	49	20.87	20.85	20.87	
10	64QAM	25	0	19.60	19.88	19.61	21.5
10	64QAM	25	12	19.76	19.89	19.55	
10	64QAM	25	25	19.70	19.85	19.59	
10	64QAM	50	0	19.66	19.52	19.62	
10	256QAM	1	0	17.79	17.77	17.77	19.5
10	256QAM	1	25	17.77	17.63	17.64	
10	256QAM	1	49	17.60	17.80	17.55	
10	256QAM	25	0	17.61	17.91	17.75	19.5
10	256QAM	25	12	17.71	17.85	17.91	
10	256QAM	25	25	17.86	17.74	17.72	
10	256QAM	50	0	17.90	17.86	17.89	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.52	22.66	22.65	24.5
5	QPSK	1	12	22.70	22.79	22.63	
5	QPSK	1	24	22.73	22.76	22.57	
5	QPSK	12	0	21.83	21.86	21.70	23.5
5	QPSK	12	7	21.75	21.76	21.63	
5	QPSK	12	13	21.76	21.88	21.67	
5	QPSK	25	0	21.63	22.11	21.73	
5	16QAM	1	0	21.79	22.29	21.83	23.5
5	16QAM	1	12	21.88	21.91	21.89	
5	16QAM	1	24	21.90	21.94	21.71	
5	16QAM	12	0	20.65	20.90	20.70	22.5
5	16QAM	12	7	20.81	20.95	20.64	
5	16QAM	12	13	20.65	20.94	20.58	
5	16QAM	25	0	20.74	20.91	20.63	
5	64QAM	1	0	20.58	20.96	20.82	22.5
5	64QAM	1	12	20.78	20.91	20.91	
5	64QAM	1	24	20.93	20.85	20.86	
5	64QAM	12	0	19.67	19.90	19.61	21.5
5	64QAM	12	7	19.78	19.84	19.67	
5	64QAM	12	13	19.66	19.82	19.69	
5	64QAM	25	0	19.68	19.51	19.50	
5	256QAM	1	0	17.89	17.83	17.78	19.5
5	256QAM	1	12	17.80	17.66	17.72	
5	256QAM	1	24	17.61	17.71	17.51	
5	256QAM	12	0	17.61	17.91	17.62	19.5
5	256QAM	12	7	17.68	17.91	17.88	
5	256QAM	12	13	17.88	17.83	17.85	
5	256QAM	25	0	17.86	17.95	17.85	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.51	22.69	22.60	24.5
3	QPSK	1	8	22.62	22.74	22.57	



FCC SAR TEST REPORT

Report No. : FA210409

3	QPSK	1	14	22.60	22.62	22.63	23.5
3	QPSK	8	0	21.85	21.97	21.67	
3	QPSK	8	4	21.72	21.80	21.52	
3	QPSK	8	7	21.73	21.86	21.55	
3	QPSK	15	0	21.65	22.18	21.72	
3	16QAM	1	0	21.76	21.99	21.88	23.5
3	16QAM	1	8	21.80	21.82	22.20	
3	16QAM	1	14	21.91	21.87	21.83	
3	16QAM	8	0	20.66	20.93	20.66	22.5
3	16QAM	8	4	20.78	20.95	20.67	
3	16QAM	8	7	20.64	20.82	20.61	
3	16QAM	15	0	20.69	21.15	20.56	
3	64QAM	1	0	20.65	20.92	20.83	
3	64QAM	1	8	21.02	20.94	20.93	22.5
3	64QAM	1	14	20.91	20.94	20.84	
3	64QAM	8	0	19.57	19.96	19.65	
3	64QAM	8	4	19.78	19.88	19.65	21.5
3	64QAM	8	7	19.63	19.86	19.68	
3	64QAM	15	0	19.72	19.55	19.52	
3	256QAM	1	0	18.12	17.72	17.72	
3	256QAM	1	8	17.85	17.72	17.75	
3	256QAM	1	14	17.65	17.66	17.56	19.5
3	256QAM	8	0	17.69	17.87	17.68	
3	256QAM	8	4	17.78	17.79	17.86	
3	256QAM	8	7	18.15	17.88	17.83	19.5
3	256QAM	8	0	17.89	17.96	17.81	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.57	22.59	22.62	24.5
1.4	QPSK	1	3	22.66	22.76	22.55	
1.4	QPSK	1	5	22.70	22.69	22.60	
1.4	QPSK	3	0	22.63	22.61	22.65	
1.4	QPSK	3	1	22.68	22.66	22.52	
1.4	QPSK	3	3	22.70	22.75	22.60	23.5
1.4	QPSK	6	0	21.90	21.96	21.88	
1.4	16QAM	1	0	21.74	21.89	21.90	
1.4	16QAM	1	3	21.88	21.87	21.89	23.5
1.4	16QAM	1	5	21.93	21.95	21.74	
1.4	16QAM	3	0	21.61	21.84	21.66	
1.4	16QAM	3	1	21.72	21.99	21.64	
1.4	16QAM	3	3	21.77	21.92	21.62	
1.4	16QAM	6	0	20.76	20.81	20.56	22.5
1.4	64QAM	1	0	20.59	20.90	20.87	22.5
1.4	64QAM	1	3	20.77	20.99	20.79	
1.4	64QAM	1	5	20.87	20.87	20.74	
1.4	64QAM	3	0	20.63	20.93	20.63	
1.4	64QAM	3	1	20.79	20.88	20.59	
1.4	64QAM	3	3	20.70	20.89	20.69	21.5
1.4	64QAM	6	0	19.73	19.59	19.61	
1.4	256QAM	1	0	17.89	17.75	17.73	
1.4	256QAM	1	3	17.82	17.58	17.64	19.5
1.4	256QAM	1	5	17.55	17.71	17.59	
1.4	256QAM	3	0	17.73	17.90	17.65	
1.4	256QAM	3	1	17.67	17.90	17.90	
1.4	256QAM	3	3	17.88	17.79	17.81	
1.4	256QAM	6	0	17.92	17.83	17.87	19.5



FDD LTE Band 66_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.60	22.69	22.66	23
20	QPSK	1	49	22.75	22.80	22.69	
20	QPSK	1	99	22.74	22.77	22.64	
20	QPSK	50	0	21.86	21.97	21.73	22
20	QPSK	50	24	21.79	21.91	21.66	
20	QPSK	50	50	21.82	21.95	21.68	
20	QPSK	100	0	21.78	22.21	21.79	
20	16QAM	1	0	21.87	21.99	21.93	22
20	16QAM	1	49	21.91	21.96	21.86	
20	16QAM	1	99	21.99	21.95	21.86	
20	16QAM	50	0	20.72	20.96	20.72	21
20	16QAM	50	24	20.83	20.97	20.70	
20	16QAM	50	50	20.79	20.94	20.67	
20	16QAM	100	0	20.78	20.91	20.65	
20	64QAM	1	0	20.70	20.96	20.90	21
20	64QAM	1	49	20.94	20.99	20.93	
20	64QAM	1	99	20.99	21.00	20.89	
20	64QAM	50	0	19.72	19.96	19.65	20
20	64QAM	50	24	19.83	19.98	19.68	
20	64QAM	50	50	19.74	19.93	19.71	
20	64QAM	100	0	19.79	19.61	19.63	
20	256QAM	1	0	17.81	17.86	17.82	18
20	256QAM	1	49	17.87	17.72	17.78	
20	256QAM	1	99	17.69	17.80	17.61	
20	256QAM	50	0	17.74	17.97	17.75	18
20	256QAM	50	24	17.79	17.91	17.97	
20	256QAM	50	50	17.76	17.89	17.87	
20	256QAM	100	0	17.92	17.97	17.96	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.52	22.62	22.60	23
15	QPSK	1	37	22.62	22.65	22.60	
15	QPSK	1	74	22.61	22.72	22.53	
15	QPSK	36	0	21.81	21.94	21.60	22
15	QPSK	36	20	21.68	21.79	21.63	
15	QPSK	36	39	21.73	21.93	21.60	
15	QPSK	75	0	21.68	21.90	21.77	
15	16QAM	1	0	21.72	22.32	21.80	22
15	16QAM	1	37	21.79	21.83	21.88	
15	16QAM	1	74	21.93	21.82	21.79	
15	16QAM	36	0	20.65	20.92	20.70	21
15	16QAM	36	20	20.82	20.89	20.56	
15	16QAM	36	39	20.72	20.79	20.61	
15	16QAM	75	0	20.67	20.88	20.62	
15	64QAM	1	0	20.70	20.98	20.83	21
15	64QAM	1	37	20.96	20.86	20.82	
15	64QAM	1	74	20.98	20.98	20.78	
15	64QAM	36	0	19.67	19.82	19.53	20
15	64QAM	36	20	19.81	19.96	19.60	
15	64QAM	36	39	19.65	19.80	19.69	
15	64QAM	75	0	19.66	19.51	19.50	
15	256QAM	1	0	17.89	17.78	17.77	18
15	256QAM	1	37	17.85	17.67	17.75	
15	256QAM	1	74	17.61	17.79	17.53	
15	256QAM	36	0	17.61	17.85	17.73	18
15	256QAM	36	20	17.68	17.85	17.92	
15	256QAM	36	39	17.88	17.76	17.84	
15	256QAM	75	0	17.90	17.93	17.90	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.60	22.60	22.53	23
10	QPSK	1	25	22.64	22.71	22.63	
10	QPSK	1	49	22.64	22.65	22.52	
10	QPSK	25	0	21.76	21.91	21.63	22
10	QPSK	25	12	21.77	21.81	21.52	
10	QPSK	25	25	21.72	21.92	21.58	
10	QPSK	50	0	21.75	22.18	21.64	
10	16QAM	1	0	21.74	22.24	21.84	22
10	16QAM	1	25	21.89	21.90	21.88	
10	16QAM	1	49	21.99	21.84	21.80	
10	16QAM	25	0	20.70	20.83	20.66	21
10	16QAM	25	12	20.69	20.97	20.58	
10	16QAM	25	25	20.65	20.88	20.67	
10	16QAM	50	0	20.64	21.18	20.52	
10	64QAM	1	0	20.66	20.95	20.79	21
10	64QAM	1	25	20.89	20.89	20.81	
10	64QAM	1	49	20.87	20.85	20.87	
10	64QAM	25	0	19.60	19.88	19.61	20
10	64QAM	25	12	19.76	19.89	19.55	
10	64QAM	25	25	19.70	19.85	19.59	
10	64QAM	50	0	19.66	19.52	19.62	
10	256QAM	1	0	17.79	17.77	17.77	18
10	256QAM	1	25	17.77	17.63	17.64	
10	256QAM	1	49	17.60	17.80	17.55	
10	256QAM	25	0	17.61	17.91	17.75	18
10	256QAM	25	12	17.71	17.85	17.91	
10	256QAM	25	25	17.86	17.74	17.72	
10	256QAM	50	0	17.90	17.86	17.89	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.52	22.66	22.65	23
5	QPSK	1	12	22.70	22.79	22.63	
5	QPSK	1	24	22.73	22.76	22.57	
5	QPSK	12	0	21.83	21.86	21.70	22
5	QPSK	12	7	21.75	21.76	21.63	
5	QPSK	12	13	21.76	21.88	21.67	
5	QPSK	25	0	21.63	22.11	21.73	
5	16QAM	1	0	21.79	22.29	21.83	22
5	16QAM	1	12	21.88	21.91	21.89	
5	16QAM	1	24	21.90	21.94	21.71	
5	16QAM	12	0	20.65	20.90	20.70	21
5	16QAM	12	7	20.81	20.95	20.64	
5	16QAM	12	13	20.65	20.94	20.58	
5	16QAM	25	0	20.74	20.91	20.63	
5	64QAM	1	0	20.58	20.96	20.82	21
5	64QAM	1	12	20.78	20.91	20.91	
5	64QAM	1	24	20.93	20.85	20.86	
5	64QAM	12	0	19.67	19.90	19.61	20
5	64QAM	12	7	19.78	19.84	19.67	
5	64QAM	12	13	19.66	19.82	19.69	
5	64QAM	25	0	19.68	19.51	19.50	
5	256QAM	1	0	17.89	17.83	17.78	18
5	256QAM	1	12	17.80	17.66	17.72	
5	256QAM	1	24	17.61	17.71	17.51	
5	256QAM	12	0	17.61	17.91	17.62	18
5	256QAM	12	7	17.68	17.91	17.88	
5	256QAM	12	13	17.88	17.83	17.85	
5	256QAM	25	0	17.86	17.95	17.85	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.51	22.69	22.60	23
3	QPSK	1	8	22.62	22.74	22.57	



3	QPSK	1	14	22.60	22.62	22.63	
3	QPSK	8	0	21.85	21.97	21.67	22
3	QPSK	8	4	21.72	21.80	21.52	
3	QPSK	8	7	21.73	21.86	21.55	
3	QPSK	15	0	21.65	22.18	21.72	
3	16QAM	1	0	21.76	21.99	21.88	22
3	16QAM	1	8	21.80	21.82	22.20	
3	16QAM	1	14	21.91	21.87	21.83	
3	16QAM	8	0	20.66	20.93	20.66	21
3	16QAM	8	4	20.78	20.95	20.67	
3	16QAM	8	7	20.64	20.82	20.61	
3	16QAM	15	0	20.69	21.15	20.56	
3	64QAM	1	0	20.65	20.92	20.83	
3	64QAM	1	8	21.02	20.94	20.93	21
3	64QAM	1	14	20.91	20.94	20.84	
3	64QAM	8	0	19.57	19.96	19.65	20
3	64QAM	8	4	19.78	19.88	19.65	
3	64QAM	8	7	19.63	19.86	19.68	
3	64QAM	15	0	19.72	19.55	19.52	
3	256QAM	1	0	18.12	17.72	17.72	
3	256QAM	1	8	17.85	17.72	17.75	18
3	256QAM	1	14	17.65	17.66	17.56	
3	256QAM	8	0	17.69	17.87	17.68	18
3	256QAM	8	4	17.78	17.79	17.86	
3	256QAM	8	7	18.15	17.88	17.83	
3	256QAM	15	0	17.89	17.96	17.81	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.57	22.59	22.62	23
1.4	QPSK	1	3	22.66	22.76	22.55	
1.4	QPSK	1	5	22.70	22.69	22.60	
1.4	QPSK	3	0	22.63	22.61	22.65	
1.4	QPSK	3	1	22.68	22.66	22.52	
1.4	QPSK	3	3	22.70	22.75	22.60	22
1.4	QPSK	6	0	21.90	21.96	21.88	
1.4	16QAM	1	0	21.74	21.89	21.90	22
1.4	16QAM	1	3	21.88	21.87	21.89	
1.4	16QAM	1	5	21.93	21.95	21.74	
1.4	16QAM	3	0	21.61	21.84	21.66	
1.4	16QAM	3	1	21.72	21.99	21.64	
1.4	16QAM	3	3	21.77	21.92	21.62	21
1.4	16QAM	6	0	20.76	20.81	20.56	
1.4	64QAM	1	0	20.59	20.90	20.87	21
1.4	64QAM	1	3	20.77	20.99	20.79	
1.4	64QAM	1	5	20.87	20.87	20.74	
1.4	64QAM	3	0	20.63	20.93	20.63	
1.4	64QAM	3	1	20.79	20.88	20.59	
1.4	64QAM	3	3	20.70	20.89	20.69	20
1.4	64QAM	6	0	19.73	19.59	19.61	
1.4	256QAM	1	0	17.89	17.75	17.73	18
1.4	256QAM	1	3	17.82	17.58	17.64	
1.4	256QAM	1	5	17.55	17.71	17.59	
1.4	256QAM	3	0	17.73	17.90	17.65	
1.4	256QAM	3	1	17.67	17.90	17.90	
1.4	256QAM	3	3	17.88	17.79	17.81	
1.4	256QAM	6	0	17.92	17.83	17.87	



FDD LTE Band 66_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	18.58	18.52	18.03	20
20	QPSK	1	49	18.88	18.65	17.90	
20	QPSK	1	99	18.46	18.08	17.80	
20	QPSK	50	0	17.45	17.15	16.83	19
20	QPSK	50	24	17.32	17.11	16.83	
20	QPSK	50	50	17.29	16.99	16.68	
20	QPSK	100	0	17.27	17.12	16.83	
20	16QAM	1	0	18.56	18.16	17.87	19
20	16QAM	1	49	18.57	18.27	17.80	
20	16QAM	1	99	18.30	18.21	17.73	
20	16QAM	50	0	17.44	17.09	16.88	18
20	16QAM	50	24	17.36	17.11	16.79	
20	16QAM	50	50	17.25	16.99	16.73	
20	16QAM	100	0	17.26	17.09	16.76	
20	64QAM	1	0	17.50	17.27	16.99	18
20	64QAM	1	49	17.44	17.18	17.03	
20	64QAM	1	99	17.32	17.03	16.76	
20	64QAM	50	0	16.38	16.16	15.83	17
20	64QAM	50	24	16.35	16.11	15.80	
20	64QAM	50	50	16.26	16.01	15.66	
20	64QAM	100	0	16.28	16.10	15.82	
20	256QAM	1	0	14.50	14.30	13.93	15
20	256QAM	1	49	14.49	14.22	13.82	
20	256QAM	1	99	14.35	14.07	13.70	
20	256QAM	50	0	14.45	14.14	13.82	15
20	256QAM	50	24	14.31	14.10	13.74	
20	256QAM	50	50	14.26	13.96	13.71	
20	256QAM	100	0	14.26	14.14	13.83	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.52	18.43	17.97	20
15	QPSK	1	37	18.73	18.58	17.71	
15	QPSK	1	74	18.28	17.99	17.64	
15	QPSK	36	0	17.42	17.12	16.63	19
15	QPSK	36	20	17.24	16.93	16.76	
15	QPSK	36	39	17.09	16.83	16.50	
15	QPSK	75	0	17.14	17.01	16.69	
15	16QAM	1	0	18.38	18.00	17.84	19
15	16QAM	1	37	18.50	18.08	17.78	
15	16QAM	1	74	18.13	18.11	17.71	
15	16QAM	36	0	17.39	17.00	16.81	18
15	16QAM	36	20	17.17	16.95	16.71	
15	16QAM	36	39	17.10	16.86	16.54	
15	16QAM	75	0	17.22	17.07	16.65	
15	64QAM	1	0	17.43	17.17	16.83	18
15	64QAM	1	37	17.35	16.99	16.87	
15	64QAM	1	74	17.20	16.93	16.72	
15	64QAM	36	0	16.34	16.05	15.82	17
15	64QAM	36	20	16.23	15.99	15.77	
15	64QAM	36	39	16.09	15.99	15.57	
15	64QAM	75	0	16.19	16.09	15.67	
15	256QAM	1	0	14.41	14.10	13.82	15
15	256QAM	1	37	14.34	14.22	13.78	
15	256QAM	1	74	14.35	13.93	13.56	
15	256QAM	36	0	14.33	14.14	13.81	15
15	256QAM	36	20	14.11	13.95	13.70	
15	256QAM	36	39	14.13	13.92	13.60	
15	256QAM	75	0	14.19	14.05	13.69	



Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.51	18.50	17.92	20
10	QPSK	1	25	18.76	18.48	17.79	
10	QPSK	1	49	18.39	17.94	17.71	
10	QPSK	25	0	17.32	16.98	16.73	19
10	QPSK	25	12	17.18	17.11	16.65	
10	QPSK	25	25	17.29	16.95	16.53	
10	QPSK	50	0	17.15	16.92	16.81	19
10	16QAM	1	0	18.39	18.12	17.71	
10	16QAM	1	25	18.54	18.14	17.78	
10	16QAM	1	49	18.10	18.02	17.53	18
10	16QAM	25	0	17.35	16.94	16.69	
10	16QAM	25	12	17.21	17.05	16.79	
10	16QAM	25	25	17.12	16.99	16.56	18
10	16QAM	50	0	17.06	17.08	16.72	
10	64QAM	1	0	17.50	17.14	16.97	
10	64QAM	1	25	17.42	17.09	16.87	18
10	64QAM	1	49	17.14	16.98	16.69	
10	64QAM	25	0	16.30	16.10	15.78	
10	64QAM	25	12	16.17	15.98	15.61	17
10	64QAM	25	25	16.23	15.91	15.64	
10	64QAM	50	0	16.14	16.04	15.77	
10	256QAM	1	0	14.49	14.11	13.93	15
10	256QAM	1	25	14.30	14.19	13.82	
10	256QAM	1	49	14.17	14.07	13.52	
10	256QAM	25	0	14.31	14.13	13.78	15
10	256QAM	25	12	14.14	13.98	13.71	
10	256QAM	25	25	14.17	13.86	13.59	
10	256QAM	50	0	14.11	14.11	13.83	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.52	18.51	17.93	20
5	QPSK	1	12	18.79	18.45	17.78	
5	QPSK	1	24	18.32	17.88	17.68	
5	QPSK	12	0	17.32	16.96	16.79	19
5	QPSK	12	7	17.32	16.99	16.63	
5	QPSK	12	13	17.16	16.98	16.57	
5	QPSK	25	0	17.19	16.92	16.66	19
5	16QAM	1	0	18.49	18.04	17.84	
5	16QAM	1	12	18.40	18.14	17.65	
5	16QAM	1	24	18.19	18.11	17.53	19
5	16QAM	12	0	17.29	17.01	16.72	
5	16QAM	12	7	17.20	16.93	16.61	
5	16QAM	12	13	17.11	16.85	16.61	18
5	16QAM	25	0	17.20	17.08	16.70	
5	64QAM	1	0	17.41	17.10	16.80	
5	64QAM	1	12	17.32	16.98	17.01	18
5	64QAM	1	24	17.21	16.97	16.66	
5	64QAM	12	0	16.20	15.96	15.65	
5	64QAM	12	7	16.30	15.95	15.72	17
5	64QAM	12	13	16.21	15.86	15.57	
5	64QAM	25	0	16.09	15.98	15.81	
5	256QAM	1	0	14.36	14.17	13.88	15
5	256QAM	1	12	14.29	14.02	13.74	
5	256QAM	1	24	14.30	14.02	13.63	
5	256QAM	12	0	14.30	13.95	13.72	15
5	256QAM	12	7	14.31	14.08	13.74	
5	256QAM	12	13	14.06	13.95	13.59	
5	256QAM	25	0	14.15	14.07	13.71	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.47	18.41	17.95	20
3	QPSK	1	8	18.86	18.58	17.77	



FCC SAR TEST REPORT

Report No. : FA210409

3	QPSK	1	14	18.34	18.04	17.75	19
3	QPSK	8	0	17.36	17.04	16.71	
3	QPSK	8	4	17.26	17.06	16.63	
3	QPSK	8	7	17.17	16.95	16.54	
3	QPSK	15	0	17.13	17.10	16.80	
3	16QAM	1	0	18.53	18.12	17.69	19
3	16QAM	1	8	18.43	18.27	17.70	
3	16QAM	1	14	18.20	18.03	17.64	
3	16QAM	8	0	17.42	16.97	16.78	18
3	16QAM	8	4	17.36	17.07	16.60	
3	16QAM	8	7	17.24	16.94	16.61	
3	16QAM	15	0	17.22	16.89	16.64	
3	64QAM	1	0	17.49	17.23	16.94	
3	64QAM	1	8	17.37	17.01	16.99	18
3	64QAM	1	14	17.16	16.94	16.66	
3	64QAM	8	0	16.35	16.02	15.68	
3	64QAM	8	4	16.22	16.10	15.77	17
3	64QAM	8	7	16.09	15.94	15.59	
3	64QAM	15	0	16.28	16.04	15.65	
3	256QAM	1	0	14.33	14.27	13.92	
3	256QAM	1	8	14.38	14.20	13.67	
3	256QAM	1	14	14.35	13.90	13.68	15
3	256QAM	8	0	14.35	13.99	13.78	
3	256QAM	8	4	14.13	13.98	13.56	
3	256QAM	8	7	14.08	13.79	13.64	15
3	256QAM	15	0	14.25	14.10	13.71	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.40	18.32	17.93	20
1.4	QPSK	1	3	18.80	18.49	17.74	
1.4	QPSK	1	5	18.39	17.97	17.69	
1.4	QPSK	3	0	18.56	18.49	17.94	
1.4	QPSK	3	1	18.74	18.57	17.72	
1.4	QPSK	3	3	18.46	17.96	17.63	
1.4	QPSK	6	0	17.07	16.98	16.63	19
1.4	16QAM	1	0	18.43	18.16	17.79	19
1.4	16QAM	1	3	18.51	18.22	17.64	
1.4	16QAM	1	5	18.26	18.21	17.56	
1.4	16QAM	3	0	18.52	18.09	17.69	
1.4	16QAM	3	1	18.54	18.22	17.62	
1.4	16QAM	3	3	18.11	18.18	17.57	
1.4	16QAM	6	0	17.10	16.94	16.74	18
1.4	64QAM	1	0	17.41	17.22	16.89	18
1.4	64QAM	1	3	17.28	17.13	16.90	
1.4	64QAM	1	5	17.29	17.01	16.63	
1.4	64QAM	3	0	17.30	17.22	16.80	
1.4	64QAM	3	1	17.35	17.05	16.87	
1.4	64QAM	3	3	17.17	16.98	16.64	
1.4	64QAM	6	0	14.50	14.17	13.81	17
1.4	256QAM	1	0	14.33	14.20	13.65	15
1.4	256QAM	1	3	14.24	13.88	13.56	
1.4	256QAM	1	5	14.40	14.01	13.82	
1.4	256QAM	3	0	14.27	13.90	13.65	
1.4	256QAM	3	1	14.10	13.78	13.51	
1.4	256QAM	3	3	14.12	14.00	13.71	
1.4	256QAM	6	0	14.13	14.07	13.65	15



FDD LTE Band 71_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	22.90	23.03	22.89	24.5
20	QPSK	1	49	22.95	23.05	22.87	
20	QPSK	1	99	22.86	22.89	22.74	
20	QPSK	50	0	21.98	22.10	21.88	23.5
20	QPSK	50	24	21.92	22.01	21.79	
20	QPSK	50	50	22.06	22.03	21.86	
20	QPSK	100	0	21.99	22.02	21.84	23.5
20	16QAM	1	0	22.07	22.10	21.96	
20	16QAM	1	49	22.26	22.22	21.97	
20	16QAM	1	99	22.04	22.05	21.81	22.5
20	16QAM	50	0	20.76	20.95	20.76	
20	16QAM	50	24	21.13	21.05	20.84	
20	16QAM	50	50	21.07	21.04	20.69	22.5
20	16QAM	100	0	21.07	21.07	20.78	
20	64QAM	1	0	21.29	20.99	21.08	
20	64QAM	1	49	21.29	21.10	20.82	22.5
20	64QAM	1	99	21.13	20.99	20.77	
20	64QAM	50	0	20.04	19.92	19.91	
20	64QAM	50	24	19.98	20.24	19.85	21.5
20	64QAM	50	50	20.02	20.05	19.68	
20	64QAM	100	0	20.00	19.92	19.82	
20	256QAM	1	0	18.06	18.00	17.90	19.5
20	256QAM	1	49	18.32	18.10	17.84	
20	256QAM	1	99	18.13	18.19	17.73	
20	256QAM	50	0	18.18	17.99	17.77	19.5
20	256QAM	50	24	18.04	17.90	17.90	
20	256QAM	50	50	18.00	18.00	17.75	
20	256QAM	100	0	17.96	17.98	17.82	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.93	22.88	22.87	24.5
15	QPSK	1	37	22.94	22.95	22.81	
15	QPSK	1	74	22.82	22.87	22.57	
15	QPSK	36	0	21.84	21.81	21.73	23.5
15	QPSK	36	20	21.91	22.09	21.96	
15	QPSK	36	39	21.96	21.88	21.68	
15	QPSK	75	0	22.04	22.06	21.73	23.5
15	16QAM	1	0	22.10	22.02	21.90	
15	16QAM	1	37	22.22	22.22	22.05	
15	16QAM	1	74	21.95	22.08	21.62	22.5
15	16QAM	36	0	20.67	20.87	20.72	
15	16QAM	36	20	21.09	21.08	20.71	
15	16QAM	36	39	20.83	21.04	20.71	22.5
15	16QAM	75	0	20.94	21.04	20.77	
15	64QAM	1	0	21.26	21.03	21.03	
15	64QAM	1	37	21.27	21.02	20.83	22.5
15	64QAM	1	74	21.15	20.87	20.68	
15	64QAM	36	0	20.09	19.89	19.75	
15	64QAM	36	20	20.00	20.16	19.76	21.5
15	64QAM	36	39	19.92	19.86	19.78	
15	64QAM	75	0	20.00	19.88	19.83	
15	256QAM	1	0	17.98	17.80	17.89	19.5
15	256QAM	1	37	18.26	18.05	17.80	
15	256QAM	1	74	18.10	18.07	17.72	
15	256QAM	36	0	18.05	18.05	17.72	19.5
15	256QAM	36	20	18.04	17.87	17.79	
15	256QAM	36	39	17.85	17.77	17.65	
15	256QAM	75	0	17.92	17.89	17.82	



Channel				133172	133297	133422	Tune-up limit
Frequency (MHz)				668	680.5	693	(dBm)
10	QPSK	1	0	23.00	22.99	22.89	24.5
10	QPSK	1	25	22.92	22.99	22.77	
10	QPSK	1	49	22.80	22.82	22.61	
10	QPSK	25	0	21.90	21.84	21.80	23.5
10	QPSK	25	12	21.97	22.08	21.93	
10	QPSK	25	25	22.00	21.97	21.80	
10	QPSK	50	0	21.89	21.97	21.77	23.5
10	16QAM	1	0	21.97	22.16	21.96	
10	16QAM	1	25	22.16	22.13	21.99	
10	16QAM	1	49	21.91	22.06	21.81	22.5
10	16QAM	25	0	20.67	20.92	20.74	
10	16QAM	25	12	21.07	21.07	20.71	
10	16QAM	25	25	20.98	21.08	20.79	22.5
10	16QAM	50	0	20.96	21.01	20.88	
10	64QAM	1	0	21.37	20.93	21.05	
10	64QAM	1	25	21.19	21.12	20.70	21.5
10	64QAM	1	49	20.95	20.88	20.69	
10	64QAM	25	0	20.03	19.90	19.70	
10	64QAM	25	12	20.02	20.33	19.88	19.5
10	64QAM	25	25	19.89	19.99	19.78	
10	64QAM	50	0	19.99	19.81	19.79	
10	256QAM	1	0	17.91	17.83	17.84	19.5
10	256QAM	1	25	18.32	18.07	17.73	
10	256QAM	1	49	18.11	18.18	17.55	
10	256QAM	25	0	18.08	17.88	17.62	19.5
10	256QAM	25	12	17.95	18.02	17.86	
10	256QAM	25	25	17.96	17.79	17.65	
10	256QAM	50	0	18.01	17.95	17.83	
Channel				133147	133297	133447	Tune-up limit
Frequency (MHz)				665.5	680.5	695.5	(dBm)
5	QPSK	1	0	22.96	22.87	22.78	24.5
5	QPSK	1	12	22.99	22.94	22.78	
5	QPSK	1	24	22.74	22.81	22.62	
5	QPSK	12	0	21.96	21.90	21.71	23.5
5	QPSK	12	7	22.02	22.09	21.89	
5	QPSK	12	13	22.00	21.93	21.74	
5	QPSK	25	0	21.79	21.89	21.78	23.5
5	16QAM	1	0	21.90	22.05	21.83	
5	16QAM	1	12	22.32	22.22	22.01	
5	16QAM	1	24	22.14	21.91	21.67	22.5
5	16QAM	12	0	20.70	21.01	20.69	
5	16QAM	12	7	21.15	21.10	20.67	
5	16QAM	12	13	20.93	21.10	20.79	22.5
5	16QAM	25	0	21.12	20.93	20.74	
5	64QAM	1	0	21.32	21.00	21.12	
5	64QAM	1	12	21.23	21.02	20.91	22.5
5	64QAM	1	24	21.13	20.90	20.80	
5	64QAM	12	0	20.03	19.79	19.75	
5	64QAM	12	7	19.93	20.09	19.95	21.5
5	64QAM	12	13	19.83	20.01	19.54	
5	64QAM	25	0	19.84	19.88	19.86	
5	256QAM	1	0	17.92	17.94	17.74	19.5
5	256QAM	1	12	18.29	18.18	17.69	
5	256QAM	1	24	17.99	18.02	17.67	
5	256QAM	12	0	18.12	18.03	17.67	19.5
5	256QAM	12	7	17.99	17.74	17.77	
5	256QAM	12	13	17.96	17.88	17.76	
5	256QAM	25	0	17.86	17.93	17.83	



FDD LTE Band 71_Ant 3_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	22.53	22.50	22.55	24
20	QPSK	1	49	22.55	22.60	22.56	
20	QPSK	1	99	22.51	22.53	22.52	
20	QPSK	50	0	21.71	21.78	21.75	23
20	QPSK	50	24	21.58	21.65	21.64	
20	QPSK	50	50	21.56	21.72	21.62	
20	QPSK	100	0	21.71	21.76	21.74	
20	16QAM	1	0	21.75	21.77	21.67	23
20	16QAM	1	49	21.81	21.92	21.83	
20	16QAM	1	99	21.86	21.76	21.71	
20	16QAM	50	0	20.66	20.71	20.71	22
20	16QAM	50	24	20.78	20.78	20.74	
20	16QAM	50	50	20.84	20.71	20.66	
20	16QAM	100	0	20.71	20.67	20.78	
20	64QAM	1	0	20.91	20.95	20.91	22
20	64QAM	1	49	20.91	20.93	20.89	
20	64QAM	1	99	20.86	20.91	20.81	
20	64QAM	50	0	19.69	19.85	19.86	21
20	64QAM	50	24	19.82	19.91	19.81	
20	64QAM	50	50	19.81	19.86	19.87	
20	64QAM	100	0	19.83	19.90	19.76	
20	256QAM	1	0	17.66	17.83	17.81	19
20	256QAM	1	49	17.73	18.01	17.99	
20	256QAM	1	99	17.91	17.85	17.85	
20	256QAM	50	0	17.72	17.83	17.76	19
20	256QAM	50	24	17.82	17.82	17.80	
20	256QAM	50	50	17.79	17.86	17.79	
20	256QAM	100	0	17.81	17.89	17.82	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.47	22.47	22.47	24
15	QPSK	1	37	22.52	22.56	22.47	
15	QPSK	1	74	22.41	22.45	22.47	
15	QPSK	36	0	21.67	21.68	21.55	23
15	QPSK	36	20	21.41	21.64	21.63	
15	QPSK	36	39	21.48	21.61	21.55	
15	QPSK	75	0	21.65	21.67	21.54	
15	16QAM	1	0	21.60	21.67	21.59	23
15	16QAM	1	37	21.64	21.72	21.73	
15	16QAM	1	74	21.79	21.64	21.67	
15	16QAM	36	0	20.59	20.51	20.67	22
15	16QAM	36	20	20.74	20.73	20.59	
15	16QAM	36	39	20.77	20.51	20.56	
15	16QAM	75	0	20.65	20.49	20.64	
15	64QAM	1	0	20.89	20.93	20.87	22
15	64QAM	1	37	20.71	20.89	20.77	
15	64QAM	1	74	20.73	20.73	20.61	
15	64QAM	36	0	19.62	19.80	19.84	21
15	64QAM	36	20	19.65	19.78	19.62	
15	64QAM	36	39	19.65	19.78	19.67	
15	64QAM	75	0	19.66	19.75	19.70	
15	256QAM	1	0	17.46	17.72	17.61	19
15	256QAM	1	37	17.69	17.97	17.82	
15	256QAM	1	74	17.83	17.74	17.75	
15	256QAM	36	0	17.64	17.66	17.65	19
15	256QAM	36	20	17.73	17.76	17.74	
15	256QAM	36	39	17.69	17.76	17.73	
15	256QAM	75	0	17.68	17.70	17.65	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	22.40	22.38	22.53	24
10	QPSK	1	25	22.43	22.55	22.36	
10	QPSK	1	49	22.34	22.41	22.55	
10	QPSK	25	0	21.51	21.63	21.66	23
10	QPSK	25	12	21.42	21.46	21.57	
10	QPSK	25	25	21.42	21.59	21.53	
10	QPSK	50	0	21.54	21.56	21.59	23
10	16QAM	1	0	21.56	21.72	21.51	
10	16QAM	1	25	21.76	21.85	21.71	
10	16QAM	1	49	21.70	21.58	21.68	22
10	16QAM	25	0	20.55	20.60	20.67	
10	16QAM	25	12	20.60	20.69	20.55	
10	16QAM	25	25	20.77	20.58	20.47	22
10	16QAM	50	0	20.61	20.57	20.61	
10	64QAM	1	0	20.84	20.76	20.86	
10	64QAM	1	25	20.81	20.85	20.83	22
10	64QAM	1	49	20.74	20.87	20.76	
10	64QAM	25	0	19.63	19.74	19.66	
10	64QAM	25	12	19.68	19.80	19.72	21
10	64QAM	25	25	19.68	19.78	19.69	
10	64QAM	50	0	19.82	19.80	19.72	
10	256QAM	1	0	17.62	17.64	17.80	19
10	256QAM	1	25	17.66	17.98	17.98	
10	256QAM	1	49	17.83	17.66	17.81	
10	256QAM	25	0	17.63	17.74	17.71	19
10	256QAM	25	12	17.64	17.76	17.60	
10	256QAM	25	25	17.68	17.76	17.63	
10	256QAM	50	0	17.62	17.85	17.69	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	22.46	22.33	22.51	24
5	QPSK	1	12	22.39	22.43	22.42	
5	QPSK	1	24	22.32	22.51	22.54	
5	QPSK	12	0	21.59	21.72	21.71	23
5	QPSK	12	7	21.56	21.59	21.48	
5	QPSK	12	13	21.54	21.60	21.45	
5	QPSK	25	0	21.55	21.62	21.58	23
5	16QAM	1	0	21.63	21.71	21.57	
5	16QAM	1	12	21.67	21.86	21.73	
5	16QAM	1	24	21.79	21.67	21.57	22
5	16QAM	12	0	20.47	20.63	20.63	
5	16QAM	12	7	20.61	20.64	20.66	
5	16QAM	12	13	20.70	20.65	20.46	22
5	16QAM	25	0	20.60	20.57	20.61	
5	64QAM	1	0	20.71	20.75	20.90	
5	64QAM	1	12	20.79	20.74	20.87	22
5	64QAM	1	24	20.76	20.79	20.80	
5	64QAM	12	0	19.66	19.66	19.74	
5	64QAM	12	7	19.74	19.83	19.76	21
5	64QAM	12	13	19.64	19.85	19.83	
5	64QAM	25	0	19.73	19.82	19.72	
5	256QAM	1	0	17.61	17.74	17.72	19
5	256QAM	1	12	17.71	17.89	17.87	
5	256QAM	1	24	17.74	17.72	17.76	
5	256QAM	12	0	17.64	17.77	17.67	19
5	256QAM	12	7	17.69	17.74	17.61	
5	256QAM	12	13	17.66	17.84	17.76	
5	256QAM	25	0	17.79	17.69	17.74	



TDD LTE Band 38_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.92	23.03	22.80	23.5
20	QPSK	1	49	23.16	23.22	23.00	
20	QPSK	1	99	22.98	23.09	22.84	
20	QPSK	50	0	21.97	22.11	21.88	22.5
20	QPSK	50	24	21.87	21.93	21.94	
20	QPSK	50	50	22.06	22.07	21.86	
20	QPSK	100	0	22.04	22.08	21.97	
20	16QAM	1	0	22.22	22.04	22.08	22.5
20	16QAM	1	49	21.91	22.29	22.01	
20	16QAM	1	99	21.68	21.80	21.83	
20	16QAM	50	0	21.04	20.92	20.91	21.5
20	16QAM	50	24	21.06	21.02	21.08	
20	16QAM	50	50	21.03	21.04	20.98	
20	16QAM	100	0	21.15	20.98	20.90	
20	64QAM	1	0	21.03	21.24	20.84	21.5
20	64QAM	1	49	21.37	20.99	21.26	
20	64QAM	1	99	21.51	20.93	21.37	
20	64QAM	50	0	19.99	20.03	19.87	20.5
20	64QAM	50	24	20.15	19.98	20.03	
20	64QAM	50	50	20.15	20.05	19.97	
20	64QAM	100	0	20.02	19.92	19.95	
20	256QAM	1	0	18.04	17.99	17.86	18.5
20	256QAM	1	49	18.15	17.95	18.01	
20	256QAM	1	99	17.91	17.97	18.09	
20	256QAM	50	0	18.10	18.06	17.91	18.5
20	256QAM	50	24	17.80	18.07	17.79	
20	256QAM	50	50	17.98	17.96	18.02	
20	256QAM	100	0	18.14	17.98	18.14	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.74	22.96	22.74	23.5
15	QPSK	1	37	23.01	23.06	22.78	
15	QPSK	1	74	22.80	22.92	22.69	
15	QPSK	36	0	21.82	22.12	21.80	22.5
15	QPSK	36	20	21.63	21.84	21.65	
15	QPSK	36	39	21.86	21.98	21.70	
15	QPSK	75	0	21.81	21.96	21.85	
15	16QAM	1	0	22.58	22.46	22.43	22.5
15	16QAM	1	37	22.33	22.54	22.50	
15	16QAM	1	74	22.12	22.08	22.23	
15	16QAM	36	0	20.78	20.88	20.83	21.5
15	16QAM	36	20	21.10	20.92	20.96	
15	16QAM	36	39	20.85	20.87	20.92	
15	16QAM	75	0	21.07	20.89	20.73	
15	64QAM	1	0	21.04	21.20	20.79	21.5
15	64QAM	1	37	21.28	20.81	21.02	
15	64QAM	1	74	21.43	20.90	21.40	
15	64QAM	36	0	20.01	19.81	19.72	20.5
15	64QAM	36	20	20.09	19.90	20.02	
15	64QAM	36	39	20.06	19.97	19.81	
15	64QAM	75	0	19.85	19.81	19.99	
15	256QAM	1	0	17.95	17.94	17.72	18.5
15	256QAM	1	37	18.11	17.96	17.89	
15	256QAM	1	74	17.90	17.87	17.98	
15	256QAM	36	0	17.96	17.76	17.83	18.5
15	256QAM	36	20	17.77	18.01	17.78	
15	256QAM	36	39	17.97	17.94	18.06	
15	256QAM	75	0	17.87	17.87	18.06	



Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.77	22.94	22.69	23.5
10	QPSK	1	25	22.97	23.13	22.86	
10	QPSK	1	49	22.85	23.04	22.69	
10	QPSK	25	0	22.01	21.99	21.75	22.5
10	QPSK	25	12	21.79	21.89	21.93	
10	QPSK	25	25	21.91	21.93	21.75	
10	QPSK	50	0	21.88	21.96	21.82	22.5
10	16QAM	1	0	22.63	22.55	22.53	
10	16QAM	1	25	22.30	22.65	22.54	
10	16QAM	1	49	22.11	22.27	22.19	21.5
10	16QAM	25	0	21.02	20.80	20.71	
10	16QAM	25	12	20.91	20.87	20.94	
10	16QAM	25	25	20.98	20.89	20.81	21.5
10	16QAM	50	0	21.03	21.03	20.77	
10	64QAM	1	0	20.87	21.18	20.89	
10	64QAM	1	25	21.26	20.95	21.10	20.5
10	64QAM	1	49	21.25	20.86	21.29	
10	64QAM	25	0	19.85	19.85	19.76	
10	64QAM	25	12	20.05	19.86	19.92	18.5
10	64QAM	25	25	20.08	19.95	19.86	
10	64QAM	50	0	20.07	19.76	19.90	
10	256QAM	1	0	17.94	18.03	17.80	18.5
10	256QAM	1	25	18.07	17.99	17.89	
10	256QAM	1	49	17.89	17.75	17.94	
10	256QAM	25	0	18.09	17.94	17.81	18.5
10	256QAM	25	12	17.72	17.92	17.65	
10	256QAM	25	25	17.86	17.99	17.97	
10	256QAM	50	0	17.93	17.77	17.95	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.77	23.02	22.72	23.5
5	QPSK	1	12	23.10	22.93	22.92	
5	QPSK	1	24	22.94	22.93	22.77	
5	QPSK	12	0	22.00	21.95	21.74	22.5
5	QPSK	12	7	21.75	21.84	21.85	
5	QPSK	12	13	22.01	21.86	21.86	
5	QPSK	25	0	21.82	21.99	21.99	22.5
5	16QAM	1	0	22.54	22.54	22.31	
5	16QAM	1	12	22.18	22.71	22.30	
5	16QAM	1	24	22.04	22.20	22.20	21.5
5	16QAM	12	0	20.85	20.81	20.75	
5	16QAM	12	7	21.03	20.97	20.84	
5	16QAM	12	13	20.96	20.99	20.82	21.5
5	16QAM	25	0	21.14	20.89	20.73	
5	64QAM	1	0	20.87	21.17	20.79	
5	64QAM	1	12	21.18	20.84	21.12	20.5
5	64QAM	1	24	21.34	20.85	21.37	
5	64QAM	12	0	19.81	19.88	19.69	
5	64QAM	12	7	20.15	19.81	19.84	18.5
5	64QAM	12	13	20.04	20.00	19.77	
5	64QAM	25	0	19.88	19.76	19.89	
5	256QAM	1	0	17.88	17.86	17.80	18.5
5	256QAM	1	12	18.15	17.91	17.89	
5	256QAM	1	24	17.87	17.99	18.03	
5	256QAM	12	0	18.00	17.89	17.92	18.5
5	256QAM	12	7	17.72	18.00	17.65	
5	256QAM	12	13	18.04	18.00	17.85	
5	256QAM	25	0	17.95	17.88	17.94	



TDD LTE Band 38_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.21	22.26	22.20	23
20	QPSK	1	49	22.31	22.43	22.16	
20	QPSK	1	99	22.36	22.39	22.28	
20	QPSK	50	0	21.23	21.31	21.21	22
20	QPSK	50	24	21.09	21.15	21.01	
20	QPSK	50	50	21.16	21.21	21.14	
20	QPSK	100	0	21.16	21.19	21.15	
20	16QAM	1	0	21.14	21.06	21.04	22
20	16QAM	1	49	21.47	21.45	21.32	
20	16QAM	1	99	20.99	21.09	21.24	
20	16QAM	50	0	20.08	20.02	20.00	21
20	16QAM	50	24	20.20	20.14	20.23	
20	16QAM	50	50	20.19	20.22	20.17	
20	16QAM	100	0	20.11	20.16	20.17	
20	64QAM	1	0	20.10	20.06	20.21	21
20	64QAM	1	49	20.31	20.37	20.41	
20	64QAM	1	99	20.16	20.06	20.03	
20	64QAM	50	0	19.27	19.24	19.20	20
20	64QAM	50	24	19.36	19.35	19.35	
20	64QAM	50	50	19.27	19.35	19.26	
20	64QAM	100	0	19.34	19.24	19.28	
20	256QAM	1	0	17.13	17.18	17.16	18
20	256QAM	1	49	17.35	17.19	17.31	
20	256QAM	1	99	17.21	17.12	17.33	
20	256QAM	50	0	17.15	17.17	17.22	18
20	256QAM	50	24	17.20	17.16	17.23	
20	256QAM	50	50	17.28	17.26	17.47	
20	256QAM	100	0	17.17	17.01	17.01	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.02	22.10	22.35	23
15	QPSK	1	37	22.06	22.17	22.13	
15	QPSK	1	74	22.16	22.19	22.18	
15	QPSK	36	0	21.09	21.18	21.10	22
15	QPSK	36	20	21.17	21.19	21.18	
15	QPSK	36	39	21.11	21.19	21.20	
15	QPSK	75	0	21.12	21.13	21.12	
15	16QAM	1	0	21.07	21.30	21.04	22
15	16QAM	1	37	21.29	21.44	21.13	
15	16QAM	1	74	21.11	21.31	21.00	
15	16QAM	36	0	20.03	20.18	20.03	21
15	16QAM	36	20	20.20	20.18	20.18	
15	16QAM	36	39	20.14	20.15	20.21	
15	16QAM	75	0	20.23	20.12	20.16	
15	64QAM	1	0	19.71	20.20	20.15	21
15	64QAM	1	37	20.03	20.25	20.39	
15	64QAM	1	74	20.31	20.15	20.28	
15	64QAM	36	0	18.95	19.19	19.02	20
15	64QAM	36	20	19.22	19.16	19.11	
15	64QAM	36	39	19.18	19.21	19.15	
15	64QAM	75	0	19.19	19.23	18.97	
15	256QAM	1	0	16.87	17.05	16.89	18
15	256QAM	1	37	17.10	16.97	17.01	
15	256QAM	1	74	16.94	16.91	17.23	
15	256QAM	36	0	16.85	16.87	16.99	18
15	256QAM	36	20	16.99	16.98	16.98	
15	256QAM	36	39	17.15	17.00	17.18	
15	256QAM	75	0	16.97	16.76	16.86	



Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.95	21.99	22.32	23
10	QPSK	1	25	21.91	22.21	22.08	
10	QPSK	1	49	22.14	22.14	22.16	
10	QPSK	25	0	21.02	21.04	21.05	22
10	QPSK	25	12	21.13	21.18	21.03	
10	QPSK	25	25	21.03	21.07	21.12	
10	QPSK	50	0	20.99	20.99	21.04	
10	16QAM	1	0	21.04	21.32	20.99	22
10	16QAM	1	25	21.23	21.29	21.06	
10	16QAM	1	49	20.96	21.19	20.98	
10	16QAM	25	0	20.04	20.12	19.99	21
10	16QAM	25	12	20.18	20.04	20.13	
10	16QAM	25	25	20.04	20.01	20.17	
10	16QAM	50	0	20.12	19.99	20.14	
10	64QAM	1	0	19.71	20.08	20.08	
10	64QAM	1	25	20.05	20.27	20.27	21
10	64QAM	1	49	20.26	20.16	20.15	
10	64QAM	25	0	18.96	19.21	18.87	
10	64QAM	25	12	19.22	19.12	19.15	20
10	64QAM	25	25	19.09	19.14	19.05	
10	64QAM	50	0	19.07	19.17	19.00	
10	256QAM	1	0	16.93	17.04	16.98	
10	256QAM	1	25	17.12	16.90	17.16	18
10	256QAM	1	49	16.95	16.98	17.15	
10	256QAM	25	0	17.04	17.03	17.04	
10	256QAM	25	12	17.09	16.99	17.04	18
10	256QAM	25	25	17.13	17.09	17.34	
10	256QAM	50	0	16.91	16.74	16.79	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.33	22.21	22.28	23
5	QPSK	1	12	22.36	22.30	22.30	
5	QPSK	1	24	22.30	22.31	22.26	
5	QPSK	12	0	21.27	21.20	21.21	22
5	QPSK	12	7	21.29	21.31	21.35	
5	QPSK	12	13	21.27	21.36	21.28	
5	QPSK	25	0	21.22	21.27	21.20	
5	16QAM	1	0	21.13	21.35	21.24	22
5	16QAM	1	12	21.48	21.48	21.19	
5	16QAM	1	24	21.25	21.35	21.23	
5	16QAM	12	0	20.19	20.15	20.24	21
5	16QAM	12	7	20.30	20.41	20.26	
5	16QAM	12	13	20.15	20.35	20.27	
5	16QAM	25	0	20.33	20.27	20.27	
5	64QAM	1	0	20.67	20.11	20.16	21
5	64QAM	1	12	19.81	20.27	20.09	
5	64QAM	1	24	20.24	20.25	19.96	
5	64QAM	12	0	19.18	19.38	19.18	20
5	64QAM	12	7	19.35	19.36	19.27	
5	64QAM	12	13	19.22	19.44	19.30	
5	64QAM	25	0	19.23	19.34	19.28	
5	256QAM	1	0	16.86	16.93	16.95	18
5	256QAM	1	12	17.07	16.90	17.14	
5	256QAM	1	24	17.08	16.98	17.23	
5	256QAM	12	0	17.00	17.02	16.96	18
5	256QAM	12	7	17.07	17.04	16.94	
5	256QAM	12	13	17.02	16.98	17.35	
5	256QAM	25	0	16.98	16.90	16.78	



TDD LTE Band 38_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	18.80	18.94	18.96	20
20	QPSK	1	49	18.87	18.87	18.91	
20	QPSK	1	99	18.78	18.86	18.89	
20	QPSK	50	0	17.80	17.84	17.90	19
20	QPSK	50	24	17.91	17.96	17.91	
20	QPSK	50	50	17.86	17.86	17.90	
20	QPSK	100	0	17.85	17.89	17.86	
20	16QAM	1	0	17.96	18.01	18.02	19
20	16QAM	1	49	18.17	18.12	17.92	
20	16QAM	1	99	17.85	17.81	17.89	18
20	16QAM	50	0	16.81	16.88	16.93	
20	16QAM	50	24	16.95	16.93	16.91	
20	16QAM	50	50	16.86	16.91	16.87	
20	16QAM	100	0	16.88	16.91	16.87	18
20	64QAM	1	0	16.74	16.88	16.93	
20	64QAM	1	49	16.89	17.01	16.98	
20	64QAM	1	99	16.81	16.82	16.81	
20	64QAM	50	0	15.82	15.87	15.87	17
20	64QAM	50	24	15.92	15.97	15.86	
20	64QAM	50	50	15.86	15.89	15.90	
20	64QAM	100	0	15.88	15.92	15.85	
20	256QAM	1	0	13.77	13.89	13.83	15
20	256QAM	1	49	13.88	13.84	14.00	
20	256QAM	1	99	13.84	13.78	13.90	
20	256QAM	50	0	13.80	13.85	13.89	15
20	256QAM	50	24	13.90	13.96	13.91	
20	256QAM	50	50	13.85	13.84	13.91	
20	256QAM	100	0	13.87	13.91	13.88	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	18.60	18.86	18.86	20
15	QPSK	1	37	18.73	18.71	18.91	
15	QPSK	1	74	18.63	18.82	18.74	
15	QPSK	36	0	17.73	17.74	17.78	19
15	QPSK	36	20	17.72	17.83	17.74	
15	QPSK	36	39	17.67	17.80	17.88	
15	QPSK	75	0	17.81	17.85	17.86	
15	16QAM	1	0	17.96	17.91	17.98	19
15	16QAM	1	37	17.99	18.02	17.82	
15	16QAM	1	74	17.82	17.76	17.75	18
15	16QAM	36	0	16.64	16.73	16.90	
15	16QAM	36	20	16.80	16.74	16.85	
15	16QAM	36	39	16.69	16.82	16.74	
15	16QAM	75	0	16.83	16.90	16.86	18
15	64QAM	1	0	16.56	16.83	16.82	
15	64QAM	1	37	16.77	16.88	16.96	
15	64QAM	1	74	16.80	16.67	16.70	
15	64QAM	36	0	15.68	15.81	15.70	17
15	64QAM	36	20	15.84	15.79	15.69	
15	64QAM	36	39	15.84	15.72	15.86	
15	64QAM	75	0	15.79	15.80	15.73	
15	256QAM	1	0	13.75	13.85	13.78	15
15	256QAM	1	37	13.87	13.81	13.83	
15	256QAM	1	74	13.80	13.71	13.77	
15	256QAM	36	0	13.79	13.83	13.69	15
15	256QAM	36	20	13.75	13.89	13.80	
15	256QAM	36	39	13.66	13.81	13.73	
15	256QAM	75	0	13.70	13.85	13.78	



Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.79	18.80	18.83	20
10	QPSK	1	25	18.74	18.67	18.91	
10	QPSK	1	49	18.69	18.73	18.81	
10	QPSK	25	0	17.68	17.71	17.86	19
10	QPSK	25	12	17.74	17.93	17.77	
10	QPSK	25	25	17.72	17.72	17.71	
10	QPSK	50	0	17.80	17.80	17.85	19
10	16QAM	1	0	17.95	17.95	17.96	
10	16QAM	1	25	18.04	17.92	17.72	
10	16QAM	1	49	17.65	17.80	17.71	18
10	16QAM	25	0	16.67	16.85	16.90	
10	16QAM	25	12	16.80	16.76	16.76	
10	16QAM	25	25	16.68	16.79	16.82	18
10	16QAM	50	0	16.76	16.81	16.77	
10	64QAM	1	0	16.72	16.70	16.84	
10	64QAM	1	25	16.77	16.84	16.98	18
10	64QAM	1	49	16.76	16.75	16.61	
10	64QAM	25	0	15.80	15.68	15.74	
10	64QAM	25	12	15.72	15.89	15.80	17
10	64QAM	25	25	15.80	15.87	15.80	
10	64QAM	50	0	15.77	15.75	15.66	
10	256QAM	1	0	13.67	13.80	13.67	15
10	256QAM	1	25	13.88	13.67	13.92	
10	256QAM	1	49	13.83	13.65	13.82	
10	256QAM	25	0	13.76	13.72	13.77	15
10	256QAM	25	12	13.78	13.93	13.82	
10	256QAM	25	25	13.83	13.66	13.83	
10	256QAM	50	0	13.83	13.71	13.68	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.73	18.75	18.92	20
5	QPSK	1	12	18.80	18.86	18.74	
5	QPSK	1	24	18.66	18.85	18.80	
5	QPSK	12	0	17.62	17.72	17.70	19
5	QPSK	12	7	17.79	17.96	17.86	
5	QPSK	12	13	17.84	17.71	17.72	
5	QPSK	25	0	17.83	17.71	17.74	19
5	16QAM	1	0	17.77	17.96	17.92	
5	16QAM	1	12	18.12	17.97	17.88	
5	16QAM	1	24	17.72	17.67	17.80	18
5	16QAM	12	0	16.74	16.75	16.90	
5	16QAM	12	7	16.95	16.88	16.89	
5	16QAM	12	13	16.78	16.90	16.75	18
5	16QAM	25	0	16.72	16.80	16.72	
5	64QAM	1	0	16.60	16.72	16.87	
5	64QAM	1	12	16.82	16.84	16.81	18
5	64QAM	1	24	16.78	16.75	16.75	
5	64QAM	12	0	15.76	15.75	15.82	
5	64QAM	12	7	15.86	15.77	15.66	17
5	64QAM	12	13	15.67	15.73	15.86	
5	64QAM	25	0	15.80	15.77	15.84	
5	256QAM	1	0	13.68	13.82	13.71	15
5	256QAM	1	12	13.87	13.76	13.81	
5	256QAM	1	24	13.76	13.65	13.85	
5	256QAM	12	0	13.69	13.79	13.81	15
5	256QAM	12	7	13.88	13.94	13.91	
5	256QAM	12	13	13.76	13.75	13.76	
5	256QAM	25	0	13.85	13.77	13.68	



TDD LTE Band 38_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	15.76	15.80	15.90	17.5
20	QPSK	1	49	15.81	15.89	15.89	
20	QPSK	1	99	15.71	15.75	15.75	
20	QPSK	50	0	14.80	14.83	14.87	16.5
20	QPSK	50	24	14.91	14.91	14.87	
20	QPSK	50	50	14.84	14.90	14.87	
20	QPSK	100	0	14.85	14.88	14.86	
20	16QAM	1	0	15.70	15.82	15.90	16.5
20	16QAM	1	49	15.81	15.85	15.86	
20	16QAM	1	99	15.71	15.77	15.75	
20	16QAM	50	0	14.78	14.85	14.89	15.5
20	16QAM	50	24	14.89	14.95	14.88	
20	16QAM	50	50	14.84	14.87	14.90	
20	16QAM	100	0	14.86	14.89	14.83	
20	64QAM	1	0	14.81	14.92	15.07	15.5
20	64QAM	1	49	14.85	14.94	14.96	
20	64QAM	1	99	14.74	14.80	14.79	
20	64QAM	50	0	13.79	13.85	13.90	14.5
20	64QAM	50	24	13.91	13.93	13.86	
20	64QAM	50	50	13.83	13.86	13.89	
20	64QAM	100	0	13.86	13.90	13.84	
20	256QAM	1	0	11.78	11.83	11.92	12.5
20	256QAM	1	49	11.90	11.95	11.93	
20	256QAM	1	99	11.87	11.86	11.90	
20	256QAM	50	0	11.86	11.87	11.98	12.5
20	256QAM	50	24	11.98	11.96	11.99	
20	256QAM	50	50	11.93	11.91	11.99	
20	256QAM	100	0	11.92	11.95	11.95	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	15.73	15.75	15.84	17.5
15	QPSK	1	37	15.80	15.86	15.89	
15	QPSK	1	74	15.72	15.74	15.68	
15	QPSK	36	0	14.76	14.83	14.87	16.5
15	QPSK	36	20	14.89	14.92	14.83	
15	QPSK	36	39	14.81	14.91	14.81	
15	QPSK	75	0	14.82	14.84	14.85	
15	16QAM	1	0	15.73	15.78	15.89	16.5
15	16QAM	1	37	15.77	15.84	15.88	
15	16QAM	1	74	15.73	15.72	15.73	
15	16QAM	36	0	14.71	14.84	14.89	15.5
15	16QAM	36	20	14.91	14.97	14.88	
15	16QAM	36	39	14.80	14.82	14.93	
15	16QAM	75	0	14.79	14.91	14.78	
15	64QAM	1	0	14.77	14.91	15.01	15.5
15	64QAM	1	37	14.87	14.95	14.99	
15	64QAM	1	74	14.67	14.78	14.82	
15	64QAM	36	0	13.73	13.88	13.86	14.5
15	64QAM	36	20	13.84	13.95	13.85	
15	64QAM	36	39	13.83	13.87	13.83	
15	64QAM	75	0	13.81	13.84	13.85	
15	256QAM	1	0	11.79	11.76	11.91	12.5
15	256QAM	1	37	11.85	11.97	11.86	
15	256QAM	1	74	11.84	11.87	11.87	
15	256QAM	36	0	11.79	11.84	11.99	12.5
15	256QAM	36	20	11.91	11.93	11.92	
15	256QAM	36	39	11.92	11.90	11.94	
15	256QAM	75	0	11.89	11.96	11.95	



Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	15.75	15.75	15.79	17.5
10	QPSK	1	25	15.75	15.84	15.85	
10	QPSK	1	49	15.73	15.77	15.62	
10	QPSK	25	0	14.70	14.77	14.88	16.5
10	QPSK	25	12	14.89	14.94	14.84	
10	QPSK	25	25	14.84	14.84	14.74	
10	QPSK	50	0	14.79	14.86	14.85	16.5
10	16QAM	1	0	15.75	15.78	15.87	
10	16QAM	1	25	15.76	15.80	15.87	
10	16QAM	1	49	15.73	15.69	15.76	15.5
10	16QAM	25	0	14.72	14.83	14.90	
10	16QAM	25	12	14.87	15.00	14.90	
10	16QAM	25	25	14.75	14.79	14.86	15.5
10	16QAM	50	0	14.79	14.88	14.81	
10	64QAM	1	0	14.70	14.92	14.97	
10	64QAM	1	25	14.87	14.89	14.99	14.5
10	64QAM	1	49	14.66	14.73	14.77	
10	64QAM	25	0	13.72	13.88	13.84	
10	64QAM	25	12	13.78	13.94	13.83	12.5
10	64QAM	25	25	13.80	13.80	13.77	
10	64QAM	50	0	13.81	13.79	13.80	
10	256QAM	1	0	11.73	11.75	11.87	12.5
10	256QAM	1	25	11.83	11.93	11.84	
10	256QAM	1	49	11.82	11.83	11.83	
10	256QAM	25	0	11.73	11.83	12.02	12.5
10	256QAM	25	12	11.89	11.95	11.91	
10	256QAM	25	25	11.87	11.93	11.93	
10	256QAM	50	0	11.82	11.99	11.91	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	15.78	15.75	15.72	17.5
5	QPSK	1	12	15.72	15.83	15.82	
5	QPSK	1	24	15.73	15.79	15.65	
5	QPSK	12	0	14.73	14.77	14.91	16.5
5	QPSK	12	7	14.82	14.95	14.87	
5	QPSK	12	13	14.82	14.84	14.70	
5	QPSK	25	0	14.81	14.87	14.86	16.5
5	16QAM	1	0	15.71	15.73	15.81	
5	16QAM	1	12	15.77	15.81	15.85	
5	16QAM	1	24	15.70	15.69	15.78	15.5
5	16QAM	12	0	14.69	14.79	14.85	
5	16QAM	12	7	14.81	14.95	14.84	
5	16QAM	12	13	14.68	14.82	14.84	15.5
5	16QAM	25	0	14.80	14.83	14.74	
5	64QAM	1	0	14.64	14.95	14.91	
5	64QAM	1	12	14.88	14.85	14.95	14.5
5	64QAM	1	24	14.59	14.75	14.78	
5	64QAM	12	0	13.65	13.91	13.79	
5	64QAM	12	7	13.79	13.93	13.77	12.5
5	64QAM	12	13	13.75	13.73	13.73	
5	64QAM	25	0	13.76	13.78	13.75	
5	256QAM	1	0	11.71	11.70	11.84	12.5
5	256QAM	1	12	11.85	11.91	11.84	
5	256QAM	1	24	11.79	11.83	11.80	
5	256QAM	12	0	11.72	11.83	12.04	12.5
5	256QAM	12	7	11.86	11.95	11.87	
5	256QAM	12	13	11.85	11.90	11.91	
5	256QAM	25	0	11.79	11.92	11.84	



TDD LTE Band 38_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.30	20.46	20.41	21
20	QPSK	1	49	20.23	20.37	20.44	
20	QPSK	1	99	20.30	20.33	20.25	
20	QPSK	50	0	19.29	19.35	19.36	20
20	QPSK	50	24	19.39	19.40	19.37	
20	QPSK	50	50	19.35	19.38	19.38	
20	QPSK	100	0	19.36	19.38	19.33	
20	16QAM	1	0	19.29	19.33	19.36	20
20	16QAM	1	49	19.31	19.37	19.24	
20	16QAM	1	99	19.26	19.32	19.22	
20	16QAM	50	0	18.31	18.32	18.37	19
20	16QAM	50	24	18.39	18.43	18.38	
20	16QAM	50	50	18.37	18.36	18.39	
20	16QAM	100	0	18.34	18.40	18.34	
20	64QAM	1	0	18.40	18.42	18.39	19
20	64QAM	1	49	18.49	18.30	18.47	
20	64QAM	1	99	18.34	18.37	18.30	
20	64QAM	50	0	17.30	17.34	17.39	18
20	64QAM	50	24	17.39	17.43	17.38	
20	64QAM	50	50	17.35	17.36	17.37	
20	64QAM	100	0	17.35	17.39	17.32	
20	256QAM	1	0	15.22	15.32	15.29	16
20	256QAM	1	49	15.24	15.22	15.29	
20	256QAM	1	99	15.07	15.21	14.98	
20	256QAM	50	0	15.23	15.21	15.33	16
20	256QAM	50	24	15.47	15.37	15.34	
20	256QAM	50	50	15.33	15.25	15.42	
20	256QAM	100	0	15.33	15.25	15.25	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.13	20.38	20.32	21
15	QPSK	1	37	20.18	20.25	20.32	
15	QPSK	1	74	20.26	20.22	20.21	
15	QPSK	36	0	19.14	19.27	19.30	20
15	QPSK	36	20	19.26	19.25	19.23	
15	QPSK	36	39	19.26	19.23	19.33	
15	QPSK	75	0	19.27	19.30	19.21	
15	16QAM	1	0	19.26	19.20	19.30	20
15	16QAM	1	37	19.23	19.27	19.11	
15	16QAM	1	74	19.13	19.21	19.13	
15	16QAM	36	0	18.28	18.23	18.24	19
15	16QAM	36	20	18.30	18.29	18.29	
15	16QAM	36	39	18.26	18.31	18.33	
15	16QAM	75	0	18.18	18.29	18.30	
15	64QAM	1	0	18.29	18.24	18.33	19
15	64QAM	1	37	18.32	18.24	18.37	
15	64QAM	1	74	18.31	18.32	18.23	
15	64QAM	36	0	17.11	17.15	17.36	18
15	64QAM	36	20	17.25	17.38	17.20	
15	64QAM	36	39	17.35	17.18	17.18	
15	64QAM	75	0	17.26	17.36	17.21	
15	256QAM	1	0	15.17	15.31	15.23	16
15	256QAM	1	37	15.16	15.05	15.10	
15	256QAM	1	74	14.87	15.06	14.86	
15	256QAM	36	0	15.18	15.16	15.13	16
15	256QAM	36	20	15.27	15.23	15.30	
15	256QAM	36	39	15.27	15.22	15.40	
15	256QAM	75	0	15.24	15.16	15.21	



Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.17	20.37	20.23	21
10	QPSK	1	25	20.12	20.28	20.33	
10	QPSK	1	49	20.10	20.29	20.25	
10	QPSK	25	0	19.09	19.16	19.18	20
10	QPSK	25	12	19.30	19.28	19.37	
10	QPSK	25	25	19.29	19.25	19.27	
10	QPSK	50	0	19.26	19.29	19.23	
10	16QAM	1	0	19.19	19.33	19.18	20
10	16QAM	1	25	19.18	19.36	19.05	
10	16QAM	1	49	19.06	19.18	19.17	
10	16QAM	25	0	18.15	18.14	18.21	19
10	16QAM	25	12	18.33	18.24	18.38	
10	16QAM	25	25	18.36	18.36	18.28	
10	16QAM	50	0	18.30	18.30	18.26	
10	64QAM	1	0	18.21	18.34	18.34	19
10	64QAM	1	25	18.47	18.19	18.30	
10	64QAM	1	49	18.31	18.27	18.21	
10	64QAM	25	0	17.17	17.34	17.21	18
10	64QAM	25	12	17.31	17.33	17.25	
10	64QAM	25	25	17.32	17.22	17.17	
10	64QAM	50	0	17.29	17.39	17.14	
10	256QAM	1	0	15.17	15.20	15.29	16
10	256QAM	1	25	15.06	15.22	15.14	
10	256QAM	1	49	14.90	15.08	14.88	
10	256QAM	25	0	15.23	15.16	15.19	16
10	256QAM	25	12	15.42	15.34	15.28	
10	256QAM	25	25	15.16	15.13	15.40	
10	256QAM	50	0	15.30	15.06	15.16	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.30	20.44	20.35	21
5	QPSK	1	12	20.09	20.29	20.25	
5	QPSK	1	24	20.20	20.18	20.15	
5	QPSK	12	0	19.15	19.23	19.18	20
5	QPSK	12	7	19.22	19.27	19.23	
5	QPSK	12	13	19.35	19.21	19.38	
5	QPSK	25	0	19.28	19.27	19.30	
5	16QAM	1	0	19.18	19.20	19.22	20
5	16QAM	1	12	19.20	19.18	19.12	
5	16QAM	1	24	19.25	19.31	19.05	
5	16QAM	12	0	18.24	18.15	18.36	19
5	16QAM	12	7	18.37	18.23	18.34	
5	16QAM	12	13	18.35	18.26	18.39	
5	16QAM	25	0	18.23	18.21	18.26	
5	64QAM	1	0	18.20	18.22	18.36	19
5	64QAM	1	12	18.45	18.30	18.38	
5	64QAM	1	24	18.16	18.23	18.16	
5	64QAM	12	0	17.14	17.29	17.26	18
5	64QAM	12	7	17.37	17.26	17.23	
5	64QAM	12	13	17.27	17.20	17.23	
5	64QAM	25	0	17.24	17.20	17.14	
5	256QAM	1	0	15.06	15.20	15.23	16
5	256QAM	1	12	15.13	15.03	15.12	
5	256QAM	1	24	14.97	15.09	14.92	
5	256QAM	12	0	15.18	15.05	15.30	16
5	256QAM	12	7	15.36	15.35	15.32	
5	256QAM	12	13	15.14	15.22	15.36	
5	256QAM	25	0	15.20	15.06	15.06	



TDD LTE Band 41_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.10	23.24	23.20	23.09	23.04	23.5
20	QPSK	1	49	23.23	23.30	23.21	23.09	22.96	
20	QPSK	1	99	23.10	23.21	23.24	23.16	23.07	
20	QPSK	50	0	22.11	22.25	22.14	22.16	21.97	22.5
20	QPSK	50	24	22.09	22.11	22.07	22.09	22.03	
20	QPSK	50	50	22.11	22.23	22.17	22.22	21.96	
20	QPSK	100	0	22.15	22.29	22.28	22.18	22.11	
20	16QAM	1	0	22.22	22.12	22.15	22.24	22.03	22.5
20	16QAM	1	49	22.21	22.23	22.11	22.08	22.52	
20	16QAM	1	99	22.26	22.16	22.00	22.08	21.82	21.5
20	16QAM	50	0	21.21	21.20	21.11	21.14	21.02	
20	16QAM	50	24	21.20	21.28	21.08	21.18	21.01	
20	16QAM	50	50	21.19	21.29	21.10	21.18	21.08	
20	16QAM	100	0	21.21	21.24	21.01	21.27	20.94	21.5
20	64QAM	1	0	21.00	21.21	21.14	21.20	20.99	
20	64QAM	1	49	21.22	21.11	21.09	21.16	20.94	
20	64QAM	1	99	21.11	21.09	20.99	21.02	20.99	20.5
20	64QAM	50	0	20.19	20.19	20.07	20.20	19.95	
20	64QAM	50	24	20.23	20.29	20.02	20.24	19.99	
20	64QAM	50	50	20.22	20.29	20.12	20.16	19.97	
20	64QAM	100	0	20.21	20.28	20.08	20.21	20.05	18.5
20	256QAM	1	0	18.06	17.91	17.88	18.10	17.94	
20	256QAM	1	49	18.11	17.95	17.90	18.10	17.97	
20	256QAM	1	99	18.07	18.13	17.92	18.09	17.86	
20	256QAM	50	0	18.05	18.13	17.84	18.00	17.82	18.5
20	256QAM	50	24	17.90	17.97	17.93	18.11	17.99	
20	256QAM	50	50	17.99	18.01	17.93	18.11	17.90	
20	256QAM	100	0	17.96	17.94	17.94	18.01	17.76	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.04	23.13	22.97	23.00	22.77	23.50
15	QPSK	1	37	23.11	23.09	23.00	23.02	22.84	
15	QPSK	1	74	23.10	23.13	23.01	22.98	22.72	
15	QPSK	36	0	22.05	22.15	21.95	22.11	21.82	22.5
15	QPSK	36	20	22.20	22.20	21.90	22.19	21.80	
15	QPSK	36	39	22.08	22.14	22.02	22.11	21.76	
15	QPSK	75	0	22.13	22.16	21.97	22.12	21.88	
15	16QAM	1	0	22.17	22.12	21.99	22.12	21.81	22.5
15	16QAM	1	37	22.06	22.28	21.85	22.09	21.74	
15	16QAM	1	74	22.12	22.04	22.12	22.05	21.82	21.5
15	16QAM	36	0	21.05	21.19	21.01	21.13	20.74	
15	16QAM	36	20	21.16	21.19	20.97	21.04	20.81	
15	16QAM	36	39	21.16	21.22	21.01	21.07	20.82	
15	16QAM	75	0	21.12	21.17	20.98	21.19	20.91	21.5
15	64QAM	1	0	21.02	21.12	21.08	21.07	20.86	
15	64QAM	1	37	21.04	21.13	20.90	21.09	20.72	
15	64QAM	1	74	21.01	21.18	21.00	20.96	20.67	20.5
15	64QAM	36	0	20.04	20.09	20.01	19.96	19.80	
15	64QAM	36	20	20.19	20.26	19.98	20.21	19.79	
15	64QAM	36	39	20.14	20.24	20.00	20.12	19.81	
15	64QAM	75	0	20.23	20.24	19.94	20.10	19.84	18.5
15	256QAM	1	0	18.03	17.80	17.75	18.05	17.93	
15	256QAM	1	37	17.86	17.88	17.77	18.19	17.85	
15	256QAM	1	74	17.85	18.04	17.74	17.94	17.73	
15	256QAM	36	0	18.01	17.96	17.76	17.83	17.78	18.5
15	256QAM	36	20	17.78	17.97	17.77	18.04	17.86	
15	256QAM	36	39	17.74	17.96	17.86	17.96	17.80	
15	256QAM	75	0	17.75	17.94	17.83	17.86	17.55	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.06	23.19	23.20	23.26	22.97	23.5
10	QPSK	1	25	23.16	23.09	23.23	23.14	22.94	
10	QPSK	1	49	22.96	23.19	23.07	23.16	22.91	
10	QPSK	25	0	22.23	22.24	22.14	22.19	21.97	22.5
10	QPSK	25	12	22.32	22.35	22.17	22.15	21.99	
10	QPSK	25	25	22.32	22.33	22.16	22.25	22.01	
10	QPSK	50	0	22.38	22.41	22.14	22.14	22.08	22.5
10	16QAM	1	0	22.31	22.18	22.09	22.32	22.15	
10	16QAM	1	25	22.27	22.34	22.31	22.44	21.97	
10	16QAM	1	49	22.24	22.19	22.22	22.14	22.12	21.5
10	16QAM	25	0	21.24	21.24	21.11	21.29	20.90	
10	16QAM	25	12	21.37	21.39	21.20	21.17	20.97	
10	16QAM	25	25	21.32	21.39	21.22	21.32	21.05	21.5
10	16QAM	50	0	21.32	21.33	21.08	21.13	21.04	
10	64QAM	1	0	21.14	21.38	21.06	21.16	20.91	
10	64QAM	1	25	21.33	21.28	21.20	21.23	20.92	21.5
10	64QAM	1	49	21.12	21.26	20.98	21.26	20.80	
10	64QAM	25	0	20.21	20.24	20.02	20.14	19.95	
10	64QAM	25	12	20.26	20.37	20.11	20.15	19.98	20.5
10	64QAM	25	25	20.34	20.36	20.23	20.25	20.05	
10	64QAM	50	0	20.26	20.34	20.12	20.24	20.05	
10	256QAM	1	0	18.10	17.87	17.85	17.98	17.80	18.5
10	256QAM	1	25	18.00	17.80	17.67	18.05	17.89	
10	256QAM	1	49	17.84	17.98	17.83	18.06	17.68	
10	256QAM	25	0	17.92	17.97	17.68	17.86	17.86	18.5
10	256QAM	25	12	17.72	17.94	17.77	17.85	17.81	
10	256QAM	25	25	17.89	17.89	17.70	17.99	17.85	
10	256QAM	50	0	17.76	17.84	17.86	17.86	17.72	
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	23.16	23.16	23.05	23.05	22.86	23.5
5	QPSK	1	12	23.21	23.21	23.08	23.16	23.04	
5	QPSK	1	24	23.17	23.23	23.01	23.09	23.03	
5	QPSK	12	0	22.19	22.18	21.96	22.03	21.95	22.5
5	QPSK	12	7	22.22	22.30	22.18	22.10	21.98	
5	QPSK	12	13	22.14	22.23	22.04	22.19	22.03	
5	QPSK	25	0	22.18	22.21	21.95	22.12	21.85	22.5
5	16QAM	1	0	22.07	22.16	21.99	21.99	21.82	
5	16QAM	1	12	22.22	22.40	22.05	22.06	22.08	
5	16QAM	1	24	22.17	22.23	22.17	22.25	22.05	21.5
5	16QAM	12	0	21.23	21.08	20.87	21.07	20.99	
5	16QAM	12	7	21.23	21.20	21.07	21.24	21.14	
5	16QAM	12	13	21.18	21.22	21.01	21.13	20.91	21.5
5	16QAM	25	0	21.15	21.22	20.95	21.17	20.86	
5	64QAM	1	0	21.15	21.01	21.03	21.04	20.81	
5	64QAM	1	12	21.07	21.01	21.05	21.20	20.96	21.5
5	64QAM	1	24	21.23	21.20	20.90	21.04	21.01	
5	64QAM	12	0	20.28	20.19	20.08	20.09	19.88	
5	64QAM	12	7	20.31	20.28	20.15	20.14	19.88	20.5
5	64QAM	12	13	20.18	20.15	20.15	20.20	20.05	
5	64QAM	25	0	20.24	20.22	20.01	20.11	19.99	
5	256QAM	1	0	17.99	17.95	17.71	18.12	17.89	18.5
5	256QAM	1	12	18.00	17.89	17.79	18.17	18.02	
5	256QAM	1	24	17.89	18.10	17.79	18.03	17.79	
5	256QAM	12	0	17.99	17.87	17.71	17.92	17.77	18.5
5	256QAM	12	7	17.85	17.79	17.76	17.92	17.81	
5	256QAM	12	13	17.82	17.92	17.93	17.95	17.73	
5	256QAM	25	0	17.88	17.71	17.82	17.96	17.66	



TDD LTE Band 41_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.51	22.58	22.53	22.50	22.52	23
20	QPSK	1	49	22.59	22.71	22.61	22.59	22.58	
20	QPSK	1	99	22.51	22.59	22.55	22.51	22.56	
20	QPSK	50	0	21.59	21.76	21.62	21.50	21.59	22
20	QPSK	50	24	21.56	21.65	21.60	21.66	21.55	
20	QPSK	50	50	21.56	21.70	21.63	21.68	21.56	
20	QPSK	100	0	21.61	21.71	21.55	21.50	21.63	
20	16QAM	1	0	21.53	21.55	21.54	21.59	21.51	22
20	16QAM	1	49	21.51	21.56	21.67	21.69	21.59	
20	16QAM	1	99	21.51	21.53	21.63	21.61	21.56	
20	16QAM	50	0	20.53	20.53	20.64	20.69	20.62	21
20	16QAM	50	24	20.69	20.71	20.56	20.50	20.67	
20	16QAM	50	50	20.71	20.54	20.68	20.68	20.64	
20	16QAM	100	0	20.73	20.65	20.64	20.53	20.65	
20	64QAM	1	0	20.69	20.59	20.60	20.53	20.65	21
20	64QAM	1	49	20.63	20.50	20.56	20.50	20.58	
20	64QAM	1	99	20.61	20.61	20.63	20.66	20.61	
20	64QAM	50	0	19.68	19.61	19.61	19.65	19.57	20
20	64QAM	50	24	19.74	19.60	19.63	19.50	19.54	
20	64QAM	50	50	19.83	19.60	19.53	19.65	19.61	
20	64QAM	100	0	19.73	19.64	19.55	19.64	19.60	
20	256QAM	1	0	17.54	17.55	17.63	17.57	17.59	18
20	256QAM	1	49	17.53	17.62	17.53	17.54	17.57	
20	256QAM	1	99	17.65	17.58	17.65	17.54	17.62	
20	256QAM	50	0	17.61	17.62	17.51	17.64	17.58	18
20	256QAM	50	24	17.57	17.62	17.60	17.64	17.65	
20	256QAM	50	50	17.56	17.61	17.65	17.59	17.69	
20	256QAM	100	0	17.59	17.61	17.59	17.61	17.56	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.68	22.66	22.66	22.68	22.50	23
15	QPSK	1	37	22.57	22.65	22.68	22.68	22.54	
15	QPSK	1	74	22.52	22.52	22.58	22.66	22.52	
15	QPSK	36	0	21.59	21.58	21.59	21.70	21.72	22
15	QPSK	36	20	21.68	21.59	21.55	21.69	21.65	
15	QPSK	36	39	21.61	21.59	21.69	21.58	21.65	
15	QPSK	75	0	21.66	21.84	21.72	21.69	21.80	
15	16QAM	1	0	21.61	21.68	21.52	21.57	21.74	22
15	16QAM	1	37	21.76	21.71	21.70	21.77	21.65	
15	16QAM	1	74	21.66	21.72	21.64	21.50	21.72	
15	16QAM	36	0	20.74	20.76	20.78	20.80	20.86	21
15	16QAM	36	20	20.86	20.77	20.60	20.80	20.85	
15	16QAM	36	39	20.80	20.81	20.84	20.81	20.76	
15	16QAM	75	0	20.88	20.89	20.90	20.80	20.78	
15	64QAM	1	0	20.89	20.66	20.87	20.99	20.73	21
15	64QAM	1	37	20.81	20.66	21.01	20.61	20.60	
15	64QAM	1	74	21.08	20.65	20.81	20.93	20.58	
15	64QAM	36	0	19.74	19.86	19.76	19.74	19.69	20
15	64QAM	36	20	19.69	19.84	19.59	19.71	19.74	
15	64QAM	36	39	19.89	19.81	19.82	19.77	19.75	
15	64QAM	75	0	19.90	19.74	19.83	19.87	19.69	
15	256QAM	1	0	17.56	17.65	17.78	17.68	17.61	18
15	256QAM	1	37	17.85	17.99	17.84	17.68	17.50	
15	256QAM	1	74	17.85	17.73	17.65	17.56	17.79	
15	256QAM	36	0	17.94	17.92	17.69	17.70	17.63	18
15	256QAM	36	20	17.70	17.65	17.78	17.69	17.54	
15	256QAM	36	39	17.72	17.77	17.65	17.69	17.78	
15	256QAM	75	0	17.61	17.67	17.80	17.77	17.58	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.55	22.59	22.52	22.65	22.69	23
10	QPSK	1	25	22.64	22.51	22.57	22.65	22.68	
10	QPSK	1	49	22.50	22.56	22.50	22.52	22.63	
10	QPSK	25	0	21.52	21.58	21.64	21.52	21.65	22
10	QPSK	25	12	21.63	21.64	21.54	21.60	21.52	
10	QPSK	25	25	21.60	21.67	21.61	21.53	21.62	
10	QPSK	50	0	21.67	21.81	21.85	21.68	21.89	22
10	16QAM	1	0	21.53	21.74	21.60	21.67	21.74	
10	16QAM	1	25	21.84	21.72	21.64	21.82	21.55	
10	16QAM	1	49	21.55	21.68	21.62	21.66	21.76	21
10	16QAM	25	0	20.77	20.92	20.82	20.77	20.85	
10	16QAM	25	12	20.93	20.86	20.59	20.88	20.73	
10	16QAM	25	25	20.78	20.80	20.85	20.85	20.85	21
10	16QAM	50	0	20.84	20.80	20.87	20.69	20.79	
10	64QAM	1	0	20.95	20.69	20.79	20.92	20.69	
10	64QAM	1	25	20.67	20.67	20.93	20.61	20.67	21
10	64QAM	1	49	20.92	20.55	20.78	20.98	20.65	
10	64QAM	25	0	19.74	19.75	19.82	19.62	19.80	
10	64QAM	25	12	19.83	19.83	19.61	19.73	19.83	20
10	64QAM	25	25	19.87	19.71	19.85	19.85	19.85	
10	64QAM	50	0	19.92	19.81	19.70	19.78	19.71	
10	256QAM	1	0	17.66	17.65	17.71	17.74	17.77	18
10	256QAM	1	25	17.92	17.83	17.88	17.63	17.66	
10	256QAM	1	49	18.04	17.60	17.82	17.64	17.81	
10	256QAM	25	0	17.90	17.83	17.66	17.70	17.58	18
10	256QAM	25	12	17.58	17.78	17.65	17.62	17.61	
10	256QAM	25	25	17.64	17.76	17.65	17.70	17.75	
10	256QAM	50	0	17.65	17.56	17.99	17.67	17.58	
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	22.54	22.53	22.69	22.60	22.63	23
5	QPSK	1	12	22.55	22.51	22.55	22.67	22.51	
5	QPSK	1	24	22.63	22.56	22.60	22.63	22.53	
5	QPSK	12	0	21.67	21.57	21.58	21.60	21.67	22
5	QPSK	12	7	21.53	21.64	21.57	21.63	21.67	
5	QPSK	12	13	21.66	21.69	21.53	21.59	21.62	
5	QPSK	25	0	21.53	21.58	21.68	21.67	21.54	22
5	16QAM	1	0	21.64	21.76	21.63	21.56	21.75	
5	16QAM	1	12	21.81	21.55	21.71	21.74	21.54	
5	16QAM	1	24	21.66	21.75	21.61	21.57	21.78	21
5	16QAM	12	0	20.76	20.78	20.67	20.65	20.86	
5	16QAM	12	7	20.80	20.83	20.64	20.77	20.70	
5	16QAM	12	13	20.72	20.87	20.83	20.81	20.79	21
5	16QAM	25	0	20.88	20.71	20.87	20.71	20.85	
5	64QAM	1	0	20.83	20.70	20.70	20.80	20.70	
5	64QAM	1	12	20.63	20.68	20.75	20.68	20.68	21
5	64QAM	1	24	20.89	20.60	20.72	20.87	20.60	
5	64QAM	12	0	19.73	19.80	19.72	19.68	19.71	
5	64QAM	12	7	19.77	19.83	19.61	19.78	19.86	20
5	64QAM	12	13	19.70	19.77	19.77	19.75	19.81	
5	64QAM	25	0	19.78	19.80	19.67	19.74	19.84	
5	256QAM	1	0	17.72	17.66	17.63	17.62	17.67	18
5	256QAM	1	12	17.72	17.85	17.82	17.72	17.55	
5	256QAM	1	24	17.82	17.76	17.75	17.74	17.74	
5	256QAM	12	0	17.72	17.76	17.60	17.84	17.68	18
5	256QAM	12	7	17.68	17.71	17.74	17.60	17.64	
5	256QAM	12	13	17.68	17.75	17.54	17.62	17.77	
5	256QAM	25	0	17.64	17.65	17.79	17.67	17.64	



TDD LTE Band 41_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	18.98	18.73	19.03	19.09	19.45	20
20	QPSK	1	49	18.99	18.74	19.05	19.11	19.46	
20	QPSK	1	99	18.89	18.72	18.79	19.04	19.36	
20	QPSK	50	0	18.03	17.81	18.01	18.06	18.44	19
20	QPSK	50	24	18.04	17.79	18.00	18.03	18.42	
20	QPSK	50	50	17.96	17.78	17.94	18.05	18.38	
20	QPSK	100	0	18.04	17.80	17.96	18.02	18.37	
20	16QAM	1	0	18.03	17.75	18.04	18.07	18.53	19
20	16QAM	1	49	18.24	17.82	17.88	18.13	18.31	
20	16QAM	1	99	17.88	17.77	17.89	18.09	18.39	
20	16QAM	50	0	17.04	16.78	16.95	17.05	17.34	18
20	16QAM	50	24	17.07	16.83	17.02	17.01	17.43	
20	16QAM	50	50	17.02	16.83	16.95	17.06	17.39	
20	16QAM	100	0	17.05	16.83	16.99	17.03	17.42	
20	64QAM	1	0	17.01	16.60	16.95	17.08	17.34	18
20	64QAM	1	49	16.95	16.70	16.86	17.08	17.33	
20	64QAM	1	99	16.72	16.73	16.90	16.98	17.39	
20	64QAM	50	0	16.03	15.81	15.97	16.04	16.35	17
20	64QAM	50	24	16.08	15.83	16.02	16.05	16.43	
20	64QAM	50	50	16.03	15.83	16.00	16.07	16.37	
20	64QAM	100	0	16.05	15.86	16.03	16.02	16.43	
20	256QAM	1	0	13.99	13.80	13.95	14.07	14.28	15
20	256QAM	1	49	13.98	13.79	13.88	14.04	14.39	
20	256QAM	1	99	13.89	13.85	13.86	13.95	14.51	
20	256QAM	50	0	14.05	13.80	14.02	14.09	14.36	15
20	256QAM	50	24	14.07	13.90	14.01	14.05	14.45	
20	256QAM	50	50	14.00	13.85	13.96	14.10	14.41	
20	256QAM	100	0	14.06	13.88	14.03	14.05	14.43	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.96	18.67	19.02	19.04	19.45	20
15	QPSK	1	37	19.00	18.69	19.04	19.04	19.40	
15	QPSK	1	74	18.88	18.66	18.77	19.00	19.29	
15	QPSK	36	0	18.01	17.84	18.04	18.01	18.38	19
15	QPSK	36	20	18.04	17.77	17.95	17.98	18.35	
15	QPSK	36	39	17.93	17.79	17.94	18.03	18.41	
15	QPSK	75	0	18.07	17.74	17.91	17.96	18.37	
15	16QAM	1	0	18.06	17.70	18.06	18.01	18.47	19
15	16QAM	1	37	18.26	17.83	17.90	18.08	18.32	
15	16QAM	1	74	17.86	17.72	17.87	18.12	18.34	
15	16QAM	36	0	17.01	16.79	16.90	17.03	17.28	18
15	16QAM	36	20	17.06	16.85	17.05	17.01	17.38	
15	16QAM	36	39	17.03	16.85	16.92	17.05	17.36	
15	16QAM	75	0	17.05	16.83	16.95	17.02	17.36	
15	64QAM	1	0	17.03	16.53	16.97	17.08	17.35	18
15	64QAM	1	37	16.89	16.72	16.85	17.03	17.28	
15	64QAM	1	74	16.75	16.68	16.84	16.91	17.34	
15	64QAM	36	0	16.00	15.76	15.97	15.97	16.31	17
15	64QAM	36	20	16.09	15.83	16.05	16.06	16.46	
15	64QAM	36	39	16.00	15.79	15.93	16.02	16.34	
15	64QAM	75	0	15.98	15.83	16.03	16.01	16.44	
15	256QAM	1	0	13.95	13.77	13.89	14.07	14.26	15
15	256QAM	1	37	13.91	13.79	13.86	14.00	14.34	
15	256QAM	1	74	13.89	13.87	13.81	13.95	14.49	
15	256QAM	36	0	14.02	13.82	14.02	14.08	14.32	15
15	256QAM	36	20	14.02	13.93	13.98	14.03	14.44	
15	256QAM	36	39	14.03	13.78	13.95	14.05	14.34	
15	256QAM	75	0	14.07	13.84	14.04	14.08	14.43	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.89	18.61	18.96	19.02	19.43	20
10	QPSK	1	25	18.97	18.64	19.05	19.03	19.44	
10	QPSK	1	49	18.89	18.68	18.74	18.95	19.31	
10	QPSK	25	0	17.98	17.77	18.07	18.01	18.32	19
10	QPSK	25	12	18.01	17.71	17.91	17.96	18.31	
10	QPSK	25	25	17.96	17.73	17.92	18.03	18.43	
10	QPSK	50	0	18.00	17.75	17.88	17.94	18.37	19
10	16QAM	1	0	18.07	17.73	18.07	18.04	18.50	
10	16QAM	1	25	18.26	17.77	17.84	18.07	18.33	
10	16QAM	1	49	17.87	17.72	17.85	18.07	18.36	18
10	16QAM	25	0	17.03	16.80	16.87	16.96	17.23	
10	16QAM	25	12	17.03	16.85	17.08	16.94	17.35	
10	16QAM	25	25	17.05	16.83	16.87	17.03	17.33	18
10	16QAM	50	0	17.07	16.83	16.91	16.97	17.38	
10	64QAM	1	0	16.97	16.54	16.96	17.06	17.28	
10	64QAM	1	25	16.91	16.70	16.87	17.05	17.31	18
10	64QAM	1	49	16.72	16.69	16.81	16.91	17.35	
10	64QAM	25	0	16.00	15.69	15.98	16.00	16.27	
10	64QAM	25	12	16.10	15.78	16.01	16.01	16.45	17
10	64QAM	25	25	16.01	15.82	15.93	16.02	16.30	
10	64QAM	50	0	15.91	15.76	16.05	16.04	16.41	
10	256QAM	1	0	13.90	13.75	13.91	14.04	14.29	15
10	256QAM	1	25	13.92	13.78	13.85	13.99	14.30	
10	256QAM	1	49	13.86	13.89	13.83	13.92	14.45	
10	256QAM	25	0	14.00	13.80	14.02	14.10	14.32	15
10	256QAM	25	12	14.04	13.88	13.91	13.98	14.39	
10	256QAM	25	25	14.05	13.81	13.89	13.98	14.34	
10	256QAM	50	0	14.09	13.85	14.07	14.01	14.38	
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	18.92	18.62	18.96	18.97	19.41	20
5	QPSK	1	12	19.00	18.57	19.05	18.99	19.45	
5	QPSK	1	24	18.90	18.62	18.73	18.91	19.28	
5	QPSK	12	0	17.97	17.76	18.09	17.94	18.34	19
5	QPSK	12	7	18.02	17.69	17.89	17.96	18.27	
5	QPSK	12	13	17.99	17.71	17.88	18.04	18.38	
5	QPSK	25	0	17.97	17.68	17.87	17.93	18.30	19
5	16QAM	1	0	18.09	17.72	18.05	18.02	18.53	
5	16QAM	1	12	18.19	17.71	17.80	18.01	18.32	
5	16QAM	1	24	17.80	17.67	17.84	18.03	18.33	18
5	16QAM	12	0	17.03	16.81	16.82	16.93	17.24	
5	16QAM	12	7	17.04	16.88	17.02	16.94	17.31	
5	16QAM	12	13	16.98	16.81	16.89	17.00	17.34	18
5	16QAM	25	0	17.01	16.85	16.86	16.92	17.34	
5	64QAM	1	0	16.98	16.52	16.95	17.09	17.27	
5	64QAM	1	12	16.84	16.63	16.87	17.05	17.26	18
5	64QAM	1	24	16.66	16.67	16.84	16.91	17.28	
5	64QAM	12	0	15.98	15.67	15.93	16.02	16.23	
5	64QAM	12	7	16.13	15.75	15.95	16.01	16.38	17
5	64QAM	12	13	15.95	15.82	15.93	16.05	16.28	
5	64QAM	25	0	15.84	15.78	16.06	16.04	16.43	
5	256QAM	1	0	13.86	13.70	13.85	14.00	14.31	15
5	256QAM	1	12	13.92	13.73	13.84	13.92	14.23	
5	256QAM	1	24	13.84	13.82	13.81	13.90	14.47	
5	256QAM	12	0	13.93	13.73	13.99	14.10	14.33	15
5	256QAM	12	7	14.06	13.81	13.85	13.95	14.41	
5	256QAM	12	13	14.03	13.77	13.89	13.92	14.31	
5	256QAM	25	0	14.10	13.78	14.03	13.99	14.40	



TDD LTE Band 41_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	15.55	15.52	15.53	15.64	15.81	17.5
20	QPSK	1	49	15.60	15.59	15.58	15.68	15.83	
20	QPSK	1	99	15.57	15.55	15.52	15.54	15.80	
20	QPSK	50	0	14.63	14.62	14.57	14.61	14.91	16.5
20	QPSK	50	24	14.61	14.59	14.53	14.53	14.90	
20	QPSK	50	50	14.52	14.55	14.56	14.60	14.87	
20	QPSK	100	0	14.56	14.57	14.55	14.52	14.88	
20	16QAM	1	0	15.51	15.20	15.49	15.58	15.84	16.5
20	16QAM	1	49	15.39	15.20	15.40	15.59	15.81	
20	16QAM	1	99	15.28	15.11	15.29	15.48	15.90	
20	16QAM	50	0	14.55	14.29	14.46	14.53	14.85	15.5
20	16QAM	50	24	14.60	14.38	14.52	14.54	14.89	
20	16QAM	50	50	14.56	14.33	14.46	14.56	14.87	
20	16QAM	100	0	14.56	14.36	14.51	14.52	14.91	
20	64QAM	1	0	14.04	13.67	14.02	14.04	14.39	15.5
20	64QAM	1	49	14.00	13.77	13.85	14.08	14.31	
20	64QAM	1	99	13.77	13.75	13.85	14.04	14.49	
20	64QAM	50	0	13.05	12.83	12.96	13.05	13.33	14.5
20	64QAM	50	24	13.13	12.86	13.02	13.02	13.39	
20	64QAM	50	50	13.04	12.86	12.95	13.06	13.35	
20	64QAM	100	0	13.08	12.85	13.01	13.01	13.40	
20	256QAM	1	0	11.02	10.81	11.04	11.12	11.25	12.5
20	256QAM	1	49	10.98	10.80	10.90	10.99	11.32	
20	256QAM	1	99	10.86	10.85	10.87	10.94	11.40	
20	256QAM	50	0	11.06	10.83	10.99	11.07	11.32	12.5
20	256QAM	50	24	11.12	10.89	11.01	11.13	11.34	
20	256QAM	50	50	11.01	10.87	11.00	11.08	11.37	
20	256QAM	100	0	11.11	10.88	11.02	11.09	11.42	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	15.46	15.35	15.43	15.44	15.76	17.5
15	QPSK	1	37	15.51	15.56	15.47	15.58	15.64	
15	QPSK	1	74	15.47	15.48	15.39	15.34	15.70	
15	QPSK	36	0	14.47	14.60	14.54	14.54	14.85	16.5
15	QPSK	36	20	14.43	14.44	14.40	14.42	14.88	
15	QPSK	36	39	14.34	14.48	14.47	14.51	14.67	
15	QPSK	75	0	14.53	14.41	14.40	14.47	14.72	
15	16QAM	1	0	15.45	15.03	15.43	15.43	15.75	16.5
15	16QAM	1	37	15.36	15.13	15.29	15.39	15.61	
15	16QAM	1	74	15.19	15.03	15.21	15.42	15.81	
15	16QAM	36	0	14.40	14.20	14.39	14.44	14.81	15.5
15	16QAM	36	20	14.54	14.18	14.39	14.38	14.73	
15	16QAM	36	39	14.36	14.25	14.27	14.38	14.83	
15	16QAM	75	0	14.40	14.18	14.43	14.32	14.75	
15	64QAM	1	0	13.95	13.67	13.82	13.92	14.39	15.5
15	64QAM	1	37	13.93	13.71	13.68	14.03	14.27	
15	64QAM	1	74	13.72	13.55	13.66	13.84	14.41	
15	64QAM	36	0	13.03	12.65	12.92	13.00	13.30	14.5
15	64QAM	36	20	13.08	12.69	12.98	12.85	13.35	
15	64QAM	36	39	12.99	12.83	12.91	12.95	13.22	
15	64QAM	75	0	13.02	12.72	12.98	12.81	13.36	
15	256QAM	1	0	10.86	10.70	10.95	10.95	11.12	12.5
15	256QAM	1	37	10.81	10.61	10.85	10.92	11.27	
15	256QAM	1	74	10.83	10.77	10.82	10.91	11.29	
15	256QAM	36	0	10.97	10.83	10.92	10.89	11.30	12.5
15	256QAM	36	20	10.94	10.71	10.84	11.05	11.21	
15	256QAM	36	39	10.83	10.67	10.82	10.89	11.34	
15	256QAM	75	0	11.08	10.74	10.95	11.08	11.36	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	15.55	15.41	15.45	15.47	15.72	17.5
10	QPSK	1	25	15.52	15.53	15.40	15.63	15.65	
10	QPSK	1	49	15.55	15.49	15.39	15.44	15.63	
10	QPSK	25	0	14.44	14.45	14.46	14.58	14.83	16.5
10	QPSK	25	12	14.42	14.45	14.45	14.39	14.71	
10	QPSK	25	25	14.48	14.44	14.52	14.60	14.79	
10	QPSK	50	0	14.50	14.37	14.45	14.47	14.81	16.5
10	16QAM	1	0	15.46	15.00	15.45	15.49	15.66	
10	16QAM	1	25	15.19	15.20	15.38	15.51	15.61	
10	16QAM	1	49	15.10	15.04	15.28	15.33	15.66	15.5
10	16QAM	25	0	14.50	14.26	14.42	14.46	14.66	
10	16QAM	25	12	14.45	14.24	14.35	14.38	14.87	
10	16QAM	25	25	14.44	14.17	14.33	14.48	14.69	15.5
10	16QAM	50	0	14.40	14.36	14.42	14.45	14.83	
10	64QAM	1	0	13.87	13.47	13.82	13.88	14.39	
10	64QAM	1	25	13.93	13.62	13.74	13.99	14.29	15.5
10	64QAM	1	49	13.69	13.66	13.76	14.04	14.35	
10	64QAM	25	0	12.98	12.78	12.77	12.91	13.16	
10	64QAM	25	12	13.06	12.84	12.89	12.83	13.22	14.5
10	64QAM	25	25	12.95	12.69	12.83	12.93	13.23	
10	64QAM	50	0	12.89	12.68	12.92	12.85	13.31	
10	256QAM	1	0	10.94	10.63	10.99	11.04	11.14	12.5
10	256QAM	1	25	10.80	10.75	10.71	10.83	11.32	
10	256QAM	1	49	10.75	10.71	10.84	10.83	11.21	
10	256QAM	25	0	10.90	10.72	10.87	10.91	11.32	12.5
10	256QAM	25	12	10.98	10.69	10.81	10.95	11.22	
10	256QAM	25	25	10.85	10.72	10.88	10.91	11.27	
10	256QAM	50	0	10.94	10.79	10.98	11.02	11.27	
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	15.38	15.34	15.46	15.51	15.61	17.50
5	QPSK	1	12	15.56	15.40	15.47	15.52	15.69	
5	QPSK	1	24	15.56	15.52	15.47	15.49	15.76	
5	QPSK	12	0	14.47	14.49	14.39	14.60	14.75	16.5
5	QPSK	12	7	14.53	14.53	14.50	14.46	14.70	
5	QPSK	12	13	14.37	14.39	14.47	14.52	14.69	
5	QPSK	25	0	14.54	14.50	14.43	14.49	14.85	16.5
5	16QAM	1	0	15.46	15.02	15.29	15.48	15.65	
5	16QAM	1	12	15.33	15.01	15.31	15.53	15.65	
5	16QAM	1	24	15.14	14.94	15.09	15.44	15.80	15.5
5	16QAM	12	0	14.36	14.18	14.35	14.37	14.79	
5	16QAM	12	7	14.51	14.28	14.51	14.35	14.72	
5	16QAM	12	13	14.42	14.29	14.35	14.39	14.81	15.5
5	16QAM	25	0	14.37	14.25	14.33	14.39	14.91	
5	64QAM	1	0	13.94	13.56	13.89	13.99	14.34	
5	64QAM	1	12	13.82	13.63	13.69	14.06	14.21	15.5
5	64QAM	1	24	13.63	13.63	13.82	14.00	14.31	
5	64QAM	12	0	13.01	12.72	12.92	12.91	13.30	
5	64QAM	12	7	13.01	12.82	12.93	12.90	13.34	14.5
5	64QAM	12	13	12.89	12.76	12.93	12.93	13.17	
5	64QAM	25	0	12.95	12.68	12.81	12.96	13.23	
5	256QAM	1	0	11.02	10.75	10.98	10.97	11.21	12.5
5	256QAM	1	12	10.86	10.71	10.86	10.87	11.29	
5	256QAM	1	24	10.74	10.73	10.74	10.81	11.23	
5	256QAM	12	0	10.87	10.65	10.95	10.97	11.22	12.5
5	256QAM	12	7	11.09	10.71	10.87	11.10	11.26	
5	256QAM	12	13	10.94	10.81	10.89	10.94	11.23	
5	256QAM	25	0	10.91	10.72	10.82	11.00	11.41	



TDD LTE Band 41_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	20.69	20.29	20.37	20.39	20.37	21
20	QPSK	1	49	20.70	20.31	20.39	20.58	20.81	
20	QPSK	1	99	20.12	20.13	20.27	20.19	20.58	
20	QPSK	50	0	19.46	19.21	19.51	19.56	19.99	20
20	QPSK	50	24	19.44	19.20	19.47	19.37	19.78	
20	QPSK	50	50	19.43	19.17	19.28	19.55	19.72	
20	QPSK	100	0	19.48	19.10	19.37	19.45	19.84	20
20	16QAM	1	0	19.48	18.60	19.26	19.46	19.62	
20	16QAM	1	49	19.12	18.86	18.96	19.41	19.46	
20	16QAM	1	99	19.40	19.12	19.33	19.56	19.61	19
20	16QAM	50	0	18.36	18.08	18.44	18.48	18.77	
20	16QAM	50	24	18.47	18.31	18.40	18.43	18.86	
20	16QAM	50	50	18.28	18.16	18.28	18.41	18.68	19
20	16QAM	100	0	18.40	18.28	18.41	18.41	18.82	
20	64QAM	1	0	18.64	17.93	18.06	18.19	18.79	
20	64QAM	1	49	18.10	17.99	18.19	18.83	18.56	19
20	64QAM	1	99	18.08	18.01	18.21	18.75	18.88	
20	64QAM	50	0	17.47	17.06	17.35	17.52	17.73	
20	64QAM	50	24	17.43	17.20	17.49	17.43	17.82	18
20	64QAM	50	50	17.45	17.17	17.40	17.43	17.80	
20	64QAM	100	0	17.47	17.26	17.42	17.46	17.80	
20	256QAM	1	0	15.75	15.17	15.29	15.52	15.85	16
20	256QAM	1	49	15.26	14.83	15.12	15.76	15.84	
20	256QAM	1	99	15.45	15.31	15.25	15.19	15.60	
20	256QAM	50	0	15.43	15.23	15.23	15.52	15.73	16
20	256QAM	50	24	15.47	15.24	15.46	15.47	15.82	
20	256QAM	50	50	15.44	15.27	15.27	15.47	15.90	
20	256QAM	100	0	15.41	15.25	15.42	15.45	15.75	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.61	20.12	20.32	20.32	20.34	21
15	QPSK	1	37	20.63	20.17	20.34	20.44	20.69	
15	QPSK	1	74	20.12	20.09	20.23	20.06	20.45	
15	QPSK	36	0	19.40	19.02	19.43	19.54	19.98	20
15	QPSK	36	20	19.29	19.10	19.43	19.37	19.67	
15	QPSK	36	39	19.36	19.09	19.17	19.50	19.62	
15	QPSK	75	0	19.35	18.92	19.31	19.32	19.65	20
15	16QAM	1	0	19.39	18.57	19.26	19.44	19.54	
15	16QAM	1	37	18.99	18.73	18.78	19.29	19.37	
15	16QAM	1	74	19.29	18.93	19.24	19.36	19.58	19
15	16QAM	36	0	18.18	17.89	18.26	18.37	18.74	
15	16QAM	36	20	18.43	18.18	18.30	18.26	18.73	
15	16QAM	36	39	18.26	17.98	18.20	18.23	18.51	19
15	16QAM	75	0	18.28	18.12	18.28	18.24	18.62	
15	64QAM	1	0	18.48	17.85	17.99	18.02	18.65	
15	64QAM	1	37	17.94	17.94	18.03	18.81	18.36	19
15	64QAM	1	74	17.88	17.86	18.12	18.74	18.83	
15	64QAM	36	0	17.32	16.95	17.33	17.46	17.55	
15	64QAM	36	20	17.29	17.05	17.32	17.42	17.70	18
15	64QAM	36	39	17.38	17.09	17.20	17.23	17.63	
15	64QAM	75	0	17.28	17.10	17.35	17.36	17.80	
15	256QAM	1	0	15.62	14.97	15.27	15.44	15.66	16
15	256QAM	1	37	15.06	14.65	15.11	15.67	15.70	
15	256QAM	1	74	15.31	15.22	15.14	15.01	15.58	
15	256QAM	36	0	15.28	15.20	15.18	15.39	15.66	16
15	256QAM	36	20	15.44	15.17	15.41	15.44	15.81	
15	256QAM	36	39	15.43	15.18	15.19	15.28	15.83	
15	256QAM	75	0	15.36	15.07	15.28	15.38	15.57	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.54	20.13	20.17	20.34	20.22	21
10	QPSK	1	25	20.55	20.17	20.25	20.40	20.73	
10	QPSK	1	49	20.06	20.04	20.07	20.11	20.45	
10	QPSK	25	0	19.36	19.10	19.38	19.37	19.99	20
10	QPSK	25	12	19.27	19.20	19.36	19.22	19.76	
10	QPSK	25	25	19.24	19.04	19.26	19.51	19.65	
10	QPSK	50	0	19.40	18.99	19.34	19.32	19.65	20
10	16QAM	1	0	19.38	18.60	19.12	19.37	19.57	
10	16QAM	1	25	19.12	18.85	18.94	19.34	19.32	
10	16QAM	1	49	19.37	19.04	19.17	19.47	19.55	19
10	16QAM	25	0	18.28	17.95	18.38	18.44	18.77	
10	16QAM	25	12	18.28	18.25	18.40	18.35	18.78	
10	16QAM	25	25	18.21	18.16	18.25	18.40	18.63	19
10	16QAM	50	0	18.38	18.13	18.34	18.35	18.64	
10	64QAM	1	0	18.64	17.82	17.98	18.11	18.69	
10	64QAM	1	25	17.91	17.95	18.07	18.80	18.42	19
10	64QAM	1	49	17.96	17.90	18.04	18.56	18.71	
10	64QAM	25	0	17.47	16.93	17.17	17.42	17.73	
10	64QAM	25	12	17.39	17.15	17.35	17.36	17.67	18
10	64QAM	25	25	17.27	17.06	17.22	17.37	17.76	
10	64QAM	50	0	17.28	17.17	17.42	17.42	17.74	
10	256QAM	1	0	15.69	15.04	15.19	15.41	15.75	16
10	256QAM	1	25	15.15	14.83	15.00	15.75	15.83	
10	256QAM	1	49	15.25	15.24	15.10	15.18	15.51	
10	256QAM	25	0	15.42	15.07	15.08	15.50	15.54	16
10	256QAM	25	12	15.27	15.21	15.34	15.43	15.81	
10	256QAM	25	25	15.27	15.17	15.19	15.27	15.77	
10	256QAM	50	0	15.33	15.24	15.37	15.32	15.64	
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	20.65	20.25	20.37	20.38	20.36	21
5	QPSK	1	12	20.52	20.16	20.20	20.57	20.75	
5	QPSK	1	24	20.05	20.04	20.21	20.12	20.38	
5	QPSK	12	0	19.35	19.21	19.46	19.49	19.83	20
5	QPSK	12	7	19.36	19.03	19.33	19.33	19.69	
5	QPSK	12	13	19.27	19.14	19.28	19.44	19.61	
5	QPSK	25	0	19.38	19.02	19.36	19.42	19.83	20
5	16QAM	1	0	19.38	18.48	19.25	19.40	19.47	
5	16QAM	1	12	18.97	18.77	18.90	19.33	19.27	
5	16QAM	1	24	19.22	19.01	19.21	19.37	19.51	19
5	16QAM	12	0	18.22	17.88	18.38	18.43	18.61	
5	16QAM	12	7	18.40	18.28	18.36	18.23	18.71	
5	16QAM	12	13	18.26	18.04	18.09	18.32	18.65	19
5	16QAM	25	0	18.35	18.16	18.24	18.37	18.72	
5	64QAM	1	0	18.56	17.87	17.97	17.99	18.72	
5	64QAM	1	12	17.92	17.95	18.04	18.77	18.48	19
5	64QAM	1	24	18.04	17.97	18.15	18.64	18.72	
5	64QAM	12	0	17.43	16.90	17.31	17.39	17.73	
5	64QAM	12	7	17.30	17.06	17.32	17.42	17.72	18
5	64QAM	12	13	17.35	17.05	17.35	17.33	17.71	
5	64QAM	25	0	17.38	17.21	17.41	17.40	17.70	
5	256QAM	1	0	15.69	14.99	15.12	15.45	15.77	16
5	256QAM	1	12	15.20	14.74	15.06	15.64	15.69	
5	256QAM	1	24	15.26	15.18	15.15	15.12	15.57	
5	256QAM	12	0	15.38	15.04	15.11	15.47	15.73	16
5	256QAM	12	7	15.36	15.15	15.36	15.45	15.81	
5	256QAM	12	13	15.29	15.24	15.07	15.38	15.71	
5	256QAM	25	0	15.31	15.19	15.32	15.40	15.73	



TDD LTE Band 42_Ant 4_State 0/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	24.09	24.02	23.97	24.5
20	QPSK	1	49	24.17	24.06	23.99	
20	QPSK	1	99	23.99	23.83	23.76	
20	QPSK	50	0	23.15	23.07	22.97	23.5
20	QPSK	50	24	23.11	23.03	22.93	
20	QPSK	50	50	23.08	23.03	22.88	
20	QPSK	100	0	23.14	23.08	22.91	
20	16QAM	1	0	23.00	22.87	22.80	23.5
20	16QAM	1	49	23.01	22.94	23.10	
20	16QAM	1	99	23.23	22.71	22.81	
20	16QAM	50	0	22.23	22.07	21.92	22.5
20	16QAM	50	24	22.18	22.02	22.00	
20	16QAM	50	50	22.13	21.97	21.91	
20	16QAM	100	0	22.19	22.10	21.91	
20	64QAM	1	0	21.85	21.73	21.55	22.5
20	64QAM	1	49	22.09	22.05	22.10	
20	64QAM	1	99	21.95	21.64	21.76	
20	64QAM	50	0	21.26	21.05	20.95	21.5
20	64QAM	50	24	21.22	21.00	20.90	
20	64QAM	50	50	21.23	20.97	20.92	
20	64QAM	100	0	21.13	21.12	20.83	
20	256QAM	1	0	19.08	19.09	18.95	19.5
20	256QAM	1	49	19.14	19.12	19.03	
20	256QAM	1	99	19.20	19.07	18.98	
20	256QAM	50	0	19.09	19.04	19.00	19.5
20	256QAM	50	24	19.07	19.01	19.07	
20	256QAM	50	50	19.11	18.98	19.02	
20	256QAM	100	0	19.08	18.99	18.86	
Channel				42165	42590	43015	
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	23.98	23.84	23.95	24.5
15	QPSK	1	37	23.98	23.99	23.85	
15	QPSK	1	74	23.83	23.73	23.67	
15	QPSK	36	0	23.19	23.04	22.92	23.5
15	QPSK	36	20	23.11	22.95	22.98	
15	QPSK	36	39	23.19	23.00	22.83	
15	QPSK	75	0	23.17	22.94	22.86	
15	16QAM	1	0	23.22	22.75	22.75	23.5
15	16QAM	1	37	23.07	22.92	23.05	
15	16QAM	1	74	22.89	22.90	22.65	
15	16QAM	36	0	22.19	22.11	21.92	22.5
15	16QAM	36	20	22.16	22.09	22.03	
15	16QAM	36	39	22.15	22.00	21.96	
15	16QAM	75	0	22.10	22.06	21.91	
15	64QAM	1	0	22.05	21.70	21.56	22.5
15	64QAM	1	37	22.18	21.86	21.87	
15	64QAM	1	74	21.73	21.95	21.96	
15	64QAM	36	0	21.18	21.03	20.93	21.5
15	64QAM	36	20	21.22	21.06	20.97	
15	64QAM	36	39	21.12	21.05	20.93	
15	64QAM	75	0	21.11	20.89	20.94	
15	256QAM	1	0	18.99	19.08	18.81	19.5
15	256QAM	1	37	18.99	19.11	18.97	
15	256QAM	1	74	19.15	18.92	18.79	
15	256QAM	36	0	19.02	18.84	18.90	19.5
15	256QAM	36	20	18.90	18.96	18.97	
15	256QAM	36	39	19.06	18.93	18.83	
15	256QAM	75	0	19.00	18.82	18.81	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	24.06	24.14	24.11	24.5
10	QPSK	1	25	24.09	24.11	24.15	
10	QPSK	1	49	24.07	24.05	23.98	
10	QPSK	25	0	23.24	23.14	23.00	23.5
10	QPSK	25	12	23.33	23.19	22.96	
10	QPSK	25	25	23.33	23.19	23.04	
10	QPSK	50	0	23.32	23.07	22.93	23.5
10	16QAM	1	0	23.20	22.75	22.68	
10	16QAM	1	25	23.04	22.97	23.08	
10	16QAM	1	49	23.22	23.18	23.29	22.5
10	16QAM	25	0	22.32	22.14	22.11	
10	16QAM	25	12	22.38	22.21	22.09	
10	16QAM	25	25	22.36	22.27	22.07	22.5
10	16QAM	50	0	22.38	22.28	21.99	
10	64QAM	1	0	21.93	21.91	22.05	
10	64QAM	1	25	21.87	21.98	21.83	22.5
10	64QAM	1	49	21.96	22.05	21.53	
10	64QAM	25	0	21.31	21.06	21.07	
10	64QAM	25	12	21.45	21.30	21.16	21.5
10	64QAM	25	25	21.30	21.14	20.96	
10	64QAM	50	0	21.22	21.24	21.18	
10	256QAM	1	0	19.02	18.94	18.90	19.5
10	256QAM	1	25	18.98	18.98	18.96	
10	256QAM	1	49	19.08	19.03	18.82	
10	256QAM	25	0	18.96	18.98	18.92	19.5
10	256QAM	25	12	18.89	18.90	18.99	
10	256QAM	25	25	18.95	18.94	19.02	
10	256QAM	50	0	18.92	18.85	18.83	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	24.11	23.90	24.06	24.5
5	QPSK	1	12	24.16	23.98	23.98	
5	QPSK	1	24	24.05	23.86	23.85	
5	QPSK	12	0	23.27	23.08	22.99	23.5
5	QPSK	12	7	23.27	23.10	22.97	
5	QPSK	12	13	23.24	23.07	23.05	
5	QPSK	25	0	23.19	23.03	23.03	23.5
5	16QAM	1	0	23.10	23.20	22.74	
5	16QAM	1	12	23.21	22.82	22.86	
5	16QAM	1	24	23.16	23.18	23.02	22.5
5	16QAM	12	0	22.19	22.22	22.14	
5	16QAM	12	7	22.08	22.18	21.91	
5	16QAM	12	13	22.05	22.01	21.95	22.5
5	16QAM	25	0	22.25	22.09	22.01	
5	64QAM	1	0	22.09	22.03	21.93	
5	64QAM	1	12	22.27	21.78	22.48	22.5
5	64QAM	1	24	22.07	22.17	21.71	
5	64QAM	12	0	21.31	20.91	21.02	
5	64QAM	12	7	21.26	21.10	21.06	21.5
5	64QAM	12	13	21.23	21.03	21.07	
5	64QAM	25	0	21.11	21.11	20.95	
5	256QAM	1	0	18.97	19.04	18.80	19.5
5	256QAM	1	12	19.04	18.97	18.91	
5	256QAM	1	24	19.17	19.04	18.89	
5	256QAM	12	0	19.03	19.03	18.82	19.5
5	256QAM	12	7	18.88	18.94	18.88	
5	256QAM	12	13	19.11	18.91	18.95	
5	256QAM	25	0	18.97	18.93	18.68	



TDD LTE Band 42_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	20.84	20.64	20.69	21.5
20	QPSK	1	49	21.00	21.10	20.74	
20	QPSK	1	99	20.89	20.72	20.62	
20	QPSK	50	0	19.96	20.05	19.75	20.5
20	QPSK	50	24	19.95	19.87	19.86	
20	QPSK	50	50	19.73	19.83	19.87	
20	QPSK	100	0	19.87	19.98	19.86	
20	16QAM	1	0	19.54	20.33	19.86	20.5
20	16QAM	1	49	20.11	19.88	19.82	
20	16QAM	1	99	19.73	19.88	19.61	
20	16QAM	50	0	18.78	18.69	18.80	19.5
20	16QAM	50	24	19.00	18.86	18.71	
20	16QAM	50	50	18.93	18.87	18.86	
20	16QAM	100	0	18.96	18.80	18.93	
20	64QAM	1	0	18.86	19.12	18.65	19.5
20	64QAM	1	49	18.72	18.41	18.54	
20	64QAM	1	99	18.67	18.69	18.48	
20	64QAM	50	0	17.79	17.82	17.79	18.5
20	64QAM	50	24	17.73	17.99	17.86	
20	64QAM	50	50	17.85	17.89	17.99	
20	64QAM	100	0	17.64	17.88	17.90	
20	256QAM	1	0	16.22	16.29	16.25	16.5
20	256QAM	1	49	16.43	16.51	16.39	
20	256QAM	1	99	16.36	16.34	16.35	
20	256QAM	50	0	16.45	16.46	16.45	16.5
20	256QAM	50	24	16.37	16.38	16.33	
20	256QAM	50	50	16.45	16.46	16.42	
20	256QAM	100	0	16.37	16.39	16.41	
Channel				42165	42590	43015	
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	20.79	20.61	20.69	21.5
15	QPSK	1	37	20.95	21.09	20.75	
15	QPSK	1	74	20.82	20.69	20.63	
15	QPSK	36	0	19.95	20.03	19.76	20.5
15	QPSK	36	20	19.96	19.88	19.88	
15	QPSK	36	39	19.66	19.83	19.83	
15	QPSK	75	0	19.81	19.98	19.87	
15	16QAM	1	0	19.47	20.27	19.81	20.5
15	16QAM	1	37	20.13	19.91	19.84	
15	16QAM	1	74	19.67	19.81	19.56	
15	16QAM	36	0	18.78	18.69	18.78	19.5
15	16QAM	36	20	18.98	18.83	18.66	
15	16QAM	36	39	18.93	18.84	18.87	
15	16QAM	75	0	18.95	18.77	18.87	
15	64QAM	1	0	18.82	19.09	18.62	19.5
15	64QAM	1	37	18.67	18.39	18.51	
15	64QAM	1	74	18.69	18.65	18.43	
15	64QAM	36	0	17.80	17.82	17.78	18.5
15	64QAM	36	20	17.73	17.96	17.87	
15	64QAM	36	39	17.84	17.91	17.92	
15	64QAM	75	0	17.60	17.84	17.90	
15	256QAM	1	0	16.25	16.27	16.26	16.5
15	256QAM	1	37	16.45	16.48	16.41	
15	256QAM	1	74	16.31	16.30	16.37	
15	256QAM	36	0	16.45	16.47	16.44	16.5
15	256QAM	36	20	16.38	16.34	16.34	
15	256QAM	36	39	16.39	16.43	16.36	
15	256QAM	75	0	16.30	16.32	16.44	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				42140	42590	43040	Tune-up limit (dBm)	
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	20.74	20.62	20.67	21.5	
10	QPSK	1	25	20.96	21.05	20.76		
10	QPSK	1	49	20.77	20.63	20.65		
10	QPSK	25	0	19.88	20.03	19.77	20.5	
10	QPSK	25	12	19.89	19.81	19.88		
10	QPSK	25	25	19.59	19.79	19.82		
10	QPSK	50	0	19.81	19.91	19.83	20.5	
10	16QAM	1	0	19.46	20.30	19.79		
10	16QAM	1	25	20.07	19.87	19.82		
10	16QAM	1	49	19.69	19.79	19.58	20.5	
10	16QAM	25	0	18.80	18.69	18.72		
10	16QAM	25	12	18.92	18.76	18.59		
10	16QAM	25	25	18.89	18.86	18.83	19.5	
10	16QAM	50	0	18.94	18.76	18.80		
10	64QAM	1	0	18.79	19.02	18.57		
10	64QAM	1	25	18.65	18.34	18.47	19.5	
10	64QAM	1	49	18.64	18.64	18.42		
10	64QAM	25	0	17.74	17.81	17.78		
10	64QAM	25	12	17.67	17.95	17.82	18.5	
10	64QAM	25	25	17.77	17.93	17.86		
10	64QAM	50	0	17.62	17.83	17.93		
10	256QAM	1	0	16.21	16.30	16.26	16.5	
10	256QAM	1	25	16.45	16.46	16.43		
10	256QAM	1	49	16.34	16.23	16.40		
10	256QAM	25	0	16.39	16.44	16.41	16.5	
10	256QAM	25	12	16.34	16.28	16.29		
10	256QAM	25	25	16.41	16.36	16.39		
10	256QAM	50	0	16.32	16.28	16.42	16.5	
Channel				42115	42590	43065		Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	20.70	20.64	20.61	21.5	
5	QPSK	1	12	20.99	21.00	20.70		
5	QPSK	1	24	20.73	20.66	20.68		
5	QPSK	12	0	19.81	19.99	19.76	20.5	
5	QPSK	12	7	19.83	19.79	19.82		
5	QPSK	12	13	19.60	19.82	19.77		
5	QPSK	25	0	19.77	19.90	19.79	20.5	
5	16QAM	1	0	19.39	20.32	19.81		
5	16QAM	1	12	20.03	19.82	19.83		
5	16QAM	1	24	19.63	19.81	19.55	20.5	
5	16QAM	12	0	18.78	18.71	18.68		
5	16QAM	12	7	18.90	18.74	18.55		
5	16QAM	12	13	18.89	18.86	18.76	19.5	
5	16QAM	25	0	18.97	18.73	18.83		
5	64QAM	1	0	18.76	18.97	18.56		
5	64QAM	1	12	18.64	18.33	18.48	19.5	
5	64QAM	1	24	18.57	18.58	18.45		
5	64QAM	12	0	17.77	17.83	17.71		
5	64QAM	12	7	17.64	17.94	17.77	18.5	
5	64QAM	12	13	17.73	17.86	17.84		
5	64QAM	25	0	17.62	17.81	17.94		
5	256QAM	1	0	16.24	16.25	16.29	16.5	
5	256QAM	1	12	16.44	16.49	16.38		
5	256QAM	1	24	16.30	16.26	16.34		
5	256QAM	12	0	16.33	16.40	16.34	16.5	
5	256QAM	12	7	16.33	16.30	16.26		
5	256QAM	12	13	16.40	16.36	16.37		
5	256QAM	25	0	16.35	16.26	16.35	16.5	



TDD LTE Band 42_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	16.93	17.41	16.81	18
20	QPSK	1	49	17.01	17.76	16.96	
20	QPSK	1	99	16.87	17.41	16.82	
20	QPSK	50	0	16.11	16.48	16.03	17
20	QPSK	50	24	16.03	16.45	16.08	
20	QPSK	50	50	16.09	16.46	16.07	
20	QPSK	100	0	16.07	16.47	16.01	
20	16QAM	1	0	16.99	17.35	16.90	17
20	16QAM	1	49	17.12	17.23	16.97	
20	16QAM	1	99	16.90	17.35	16.83	
20	16QAM	50	0	16.08	16.38	16.04	16
20	16QAM	50	24	16.00	16.46	16.00	
20	16QAM	50	50	15.96	16.47	15.95	
20	16QAM	100	0	15.99	16.53	16.00	
20	64QAM	1	0	15.88	16.29	16.07	16
20	64QAM	1	49	16.25	16.43	16.06	
20	64QAM	1	99	16.00	16.42	15.86	
20	64QAM	50	0	15.09	15.40	15.02	16
20	64QAM	50	24	15.02	15.49	15.03	
20	64QAM	50	50	14.98	15.48	14.98	
20	64QAM	100	0	14.99	15.45	14.99	
20	256QAM	1	0	13.14	13.33	12.93	14
20	256QAM	1	49	12.99	13.36	12.91	
20	256QAM	1	99	12.96	13.45	12.91	
20	256QAM	50	0	13.11	13.40	13.03	14
20	256QAM	50	24	13.02	13.50	13.05	
20	256QAM	50	50	13.00	13.48	12.99	
20	256QAM	100	0	13.01	13.48	13.04	
Channel				42165	42590	43015	
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	16.93	17.25	16.67	18
15	QPSK	1	37	16.95	17.70	16.92	
15	QPSK	1	74	16.67	17.28	16.65	
15	QPSK	36	0	16.08	16.37	15.92	17
15	QPSK	36	20	15.93	16.43	15.94	
15	QPSK	36	39	15.99	16.44	16.05	
15	QPSK	75	0	15.92	16.28	15.91	
15	16QAM	1	0	16.99	17.22	16.89	17
15	16QAM	1	37	17.11	17.06	16.88	
15	16QAM	1	74	16.84	17.32	16.77	
15	16QAM	36	0	15.88	16.30	15.95	16
15	16QAM	36	20	15.94	16.31	15.88	
15	16QAM	36	39	15.82	16.36	15.89	
15	16QAM	75	0	15.79	16.44	15.89	
15	64QAM	1	0	15.83	16.20	15.93	16
15	64QAM	1	37	16.21	16.39	15.86	
15	64QAM	1	74	15.94	16.29	15.68	
15	64QAM	36	0	15.08	15.39	14.90	16
15	64QAM	36	20	14.92	15.46	14.83	
15	64QAM	36	39	14.78	15.38	14.81	
15	64QAM	75	0	14.98	15.41	14.79	
15	256QAM	1	0	13.12	13.23	12.85	14
15	256QAM	1	37	12.82	13.16	12.85	
15	256QAM	1	74	12.80	13.26	12.86	
15	256QAM	36	0	13.02	13.21	12.85	14
15	256QAM	36	20	12.82	13.40	12.95	
15	256QAM	36	39	12.99	13.38	12.81	
15	256QAM	75	0	12.86	13.37	12.92	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	16.79	17.34	16.72	18
10	QPSK	1	25	16.93	17.71	16.89	
10	QPSK	1	49	16.79	17.23	16.72	
10	QPSK	25	0	16.06	16.30	15.93	17
10	QPSK	25	12	15.88	16.35	16.00	
10	QPSK	25	25	16.00	16.32	15.89	
10	QPSK	50	0	15.99	16.41	15.88	17
10	16QAM	1	0	16.80	17.27	16.75	
10	16QAM	1	25	17.12	17.06	16.92	
10	16QAM	1	49	16.84	17.29	16.77	16
10	16QAM	25	0	15.96	16.36	15.89	
10	16QAM	25	12	15.93	16.30	15.90	
10	16QAM	25	25	15.94	16.36	15.75	16
10	16QAM	50	0	15.88	16.41	15.96	
10	64QAM	1	0	15.79	16.09	16.02	
10	64QAM	1	25	16.05	16.32	15.96	16
10	64QAM	1	49	15.94	16.42	15.72	
10	64QAM	25	0	14.97	15.37	14.93	
10	64QAM	25	12	14.85	15.48	15.01	16
10	64QAM	25	25	14.84	15.44	14.95	
10	64QAM	50	0	14.85	15.41	14.80	
10	256QAM	1	0	13.11	13.26	12.85	14
10	256QAM	1	25	12.94	13.18	12.75	
10	256QAM	1	49	12.77	13.42	12.82	
10	256QAM	25	0	13.02	13.39	13.03	14
10	256QAM	25	12	12.96	13.40	12.88	
10	256QAM	25	25	12.97	13.32	12.81	
10	256QAM	50	0	12.81	13.34	13.02	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	16.90	17.34	16.79	18
5	QPSK	1	12	16.95	17.62	16.87	
5	QPSK	1	24	16.87	17.21	16.76	
5	QPSK	12	0	16.07	16.47	15.83	17
5	QPSK	12	7	15.83	16.25	15.99	
5	QPSK	12	13	16.04	16.34	15.97	
5	QPSK	25	0	15.92	16.41	16.01	17
5	16QAM	1	0	16.92	17.17	16.86	
5	16QAM	1	12	16.94	17.12	16.81	
5	16QAM	1	24	16.83	17.29	16.71	16
5	16QAM	12	0	15.95	16.33	15.91	
5	16QAM	12	7	15.89	16.30	15.95	
5	16QAM	12	13	15.83	16.35	15.87	16
5	16QAM	25	0	15.92	16.39	15.86	
5	64QAM	1	0	15.76	16.22	15.91	
5	64QAM	1	12	16.21	16.25	15.88	16
5	64QAM	1	24	15.81	16.30	15.69	
5	64QAM	12	0	14.89	15.23	15.02	
5	64QAM	12	7	14.85	15.43	15.01	16
5	64QAM	12	13	14.80	15.32	14.85	
5	64QAM	25	0	14.92	15.28	14.91	
5	256QAM	1	0	13.00	13.24	12.81	14
5	256QAM	1	12	12.88	13.23	12.88	
5	256QAM	1	24	12.89	13.37	12.85	
5	256QAM	12	0	13.11	13.27	12.91	14
5	256QAM	12	7	12.85	13.39	12.98	
5	256QAM	12	13	12.86	13.41	12.85	
5	256QAM	25	0	12.83	13.42	12.90	



TDD LTE Band 42_Ant 5_State 0/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	23.30	23.27	23.17	24.5
20	QPSK	1	49	23.45	23.41	23.22	
20	QPSK	1	99	23.29	23.16	23.09	
20	QPSK	50	0	22.40	22.30	22.20	23.5
20	QPSK	50	24	22.36	22.26	22.26	
20	QPSK	50	50	22.38	22.26	22.13	
20	QPSK	100	0	22.38	22.31	22.26	
20	16QAM	1	0	22.33	22.14	22.08	23.5
20	16QAM	1	49	22.21	22.25	22.31	
20	16QAM	1	99	22.43	21.91	22.04	
20	16QAM	50	0	21.52	21.30	21.20	22.5
20	16QAM	50	24	21.50	21.26	21.22	
20	16QAM	50	50	21.33	21.26	21.16	
20	16QAM	100	0	21.43	21.41	21.12	
20	64QAM	1	0	21.18	20.98	20.88	22.5
20	64QAM	1	49	21.29	21.36	21.37	
20	64QAM	1	99	21.18	20.94	21.09	
20	64QAM	50	0	20.46	20.30	20.30	21.5
20	64QAM	50	24	20.51	20.35	20.15	
20	64QAM	50	50	20.48	20.31	20.25	
20	64QAM	100	0	20.40	20.33	20.18	
20	256QAM	1	0	18.34	18.35	18.28	19.5
20	256QAM	1	49	18.49	18.46	18.36	
20	256QAM	1	99	18.53	18.31	18.24	
20	256QAM	50	0	18.38	18.33	18.32	19.5
20	256QAM	50	24	18.36	18.36	18.40	
20	256QAM	50	50	18.46	18.26	18.27	
20	256QAM	100	0	18.41	18.32	18.17	
Channel				42165	42590	43015	
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	23.29	23.37	23.28	24.5
15	QPSK	1	37	23.41	23.41	23.25	
15	QPSK	1	74	23.22	23.18	23.08	
15	QPSK	36	0	22.36	22.33	22.31	23.5
15	QPSK	36	20	22.40	22.37	22.16	
15	QPSK	36	39	22.31	22.27	22.16	
15	QPSK	75	0	22.36	22.43	22.19	
15	16QAM	1	0	22.20	22.08	22.04	23.5
15	16QAM	1	37	22.28	22.15	22.45	
15	16QAM	1	74	22.56	21.97	22.09	
15	16QAM	36	0	21.47	21.42	21.21	22.5
15	16QAM	36	20	21.47	21.23	21.24	
15	16QAM	36	39	21.37	21.18	21.11	
15	16QAM	75	0	21.43	21.33	21.22	
15	64QAM	1	0	21.16	20.96	20.84	22.5
15	64QAM	1	37	21.37	21.38	21.39	
15	64QAM	1	74	21.20	20.91	21.00	
15	64QAM	36	0	20.46	20.28	20.26	21.5
15	64QAM	36	20	20.43	20.20	20.23	
15	64QAM	36	39	20.55	20.29	20.14	
15	64QAM	75	0	20.48	20.43	20.10	
15	256QAM	1	0	18.34	18.38	18.18	19.5
15	256QAM	1	37	18.44	18.41	18.23	
15	256QAM	1	74	18.54	18.40	18.23	
15	256QAM	36	0	18.32	18.35	18.24	19.5
15	256QAM	36	20	18.29	18.22	18.32	
15	256QAM	36	39	18.38	18.26	18.35	
15	256QAM	75	0	18.41	18.30	18.11	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	23.31	23.30	23.21	24.5
10	QPSK	1	25	23.44	23.36	23.20	
10	QPSK	1	49	23.24	23.11	22.99	
10	QPSK	25	0	22.48	22.27	22.25	23.5
10	QPSK	25	12	22.46	22.30	22.19	
10	QPSK	25	25	22.37	22.23	22.09	
10	QPSK	50	0	22.37	22.43	22.12	23.5
10	16QAM	1	0	22.33	22.08	22.07	
10	16QAM	1	25	22.35	22.26	22.36	
10	16QAM	1	49	22.46	22.02	22.16	22.5
10	16QAM	25	0	21.58	21.30	21.12	
10	16QAM	25	12	21.39	21.36	21.26	
10	16QAM	25	25	21.39	21.30	21.13	22.5
10	16QAM	50	0	21.44	21.45	21.16	
10	64QAM	1	0	21.18	21.01	20.86	
10	64QAM	1	25	21.37	21.25	21.32	22.5
10	64QAM	1	49	21.26	20.91	21.09	
10	64QAM	25	0	20.49	20.28	20.17	
10	64QAM	25	12	20.44	20.26	20.17	21.5
10	64QAM	25	25	20.45	20.26	20.24	
10	64QAM	50	0	20.44	20.32	20.09	
10	256QAM	1	0	18.30	18.40	18.29	19.5
10	256QAM	1	25	18.39	18.47	18.34	
10	256QAM	1	49	18.47	18.39	18.30	
10	256QAM	25	0	18.33	18.36	18.26	19.5
10	256QAM	25	12	18.33	18.35	18.41	
10	256QAM	25	25	18.41	18.30	18.33	
10	256QAM	50	0	18.35	18.19	18.16	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	23.41	23.34	23.18	24.5
5	QPSK	1	12	23.38	23.35	23.19	
5	QPSK	1	24	23.25	23.06	22.97	
5	QPSK	12	0	22.37	22.27	22.20	23.5
5	QPSK	12	7	22.32	22.28	22.26	
5	QPSK	12	13	22.37	22.29	22.18	
5	QPSK	25	0	22.46	22.30	22.17	23.5
5	16QAM	1	0	22.29	22.20	22.12	
5	16QAM	1	12	22.32	22.15	22.30	
5	16QAM	1	24	22.43	22.00	22.01	22.5
5	16QAM	12	0	21.48	21.41	21.26	
5	16QAM	12	7	21.47	21.30	21.34	
5	16QAM	12	13	21.36	21.19	21.21	22.5
5	16QAM	25	0	21.40	21.35	21.13	
5	64QAM	1	0	21.15	21.03	20.88	
5	64QAM	1	12	21.32	21.37	21.39	22.5
5	64QAM	1	24	21.16	20.90	21.01	
5	64QAM	12	0	20.59	20.35	20.29	
5	64QAM	12	7	20.48	20.32	20.24	21.5
5	64QAM	12	13	20.54	20.32	20.27	
5	64QAM	25	0	20.39	20.38	20.13	
5	256QAM	1	0	18.43	18.42	18.15	19.5
5	256QAM	1	12	18.45	18.46	18.31	
5	256QAM	1	24	18.49	18.41	18.27	
5	256QAM	12	0	18.33	18.36	18.35	19.5
5	256QAM	12	7	18.32	18.35	18.42	
5	256QAM	12	13	18.41	18.18	18.30	
5	256QAM	25	0	18.33	18.25	18.21	



TDD LTE Band 42_Ant 5_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	20.20	20.37	20.38	20.5
20	QPSK	1	49	20.36	20.38	20.39	
20	QPSK	1	99	20.35	20.34	20.36	
20	QPSK	50	0	19.41	19.48	19.49	19.5
20	QPSK	50	24	19.29	19.42	19.43	
20	QPSK	50	50	19.39	19.47	19.45	
20	QPSK	100	0	19.28	19.40	19.41	
20	16QAM	1	0	19.22	19.40	19.38	19.5
20	16QAM	1	49	19.40	19.45	19.39	
20	16QAM	1	99	19.31	19.47	19.43	
20	16QAM	50	0	18.27	18.39	18.45	18.5
20	16QAM	50	24	18.30	18.43	18.48	
20	16QAM	50	50	18.40	18.49	18.50	
20	16QAM	100	0	18.29	18.41	18.42	
20	64QAM	1	0	18.12	18.29	18.37	18.5
20	64QAM	1	49	18.20	18.35	18.37	
20	64QAM	1	99	18.27	18.36	18.35	
20	64QAM	50	0	17.26	17.41	17.43	17.5
20	64QAM	50	24	17.32	17.42	17.45	
20	64QAM	50	50	17.36	17.41	17.47	
20	64QAM	100	0	17.26	17.42	17.43	
20	256QAM	1	0	15.25	15.40	15.50	15.5
20	256QAM	1	49	15.34	15.42	15.43	
20	256QAM	1	99	15.32	15.45	15.45	
20	256QAM	50	0	15.31	15.44	15.49	15.5
20	256QAM	50	24	15.32	15.45	15.47	
20	256QAM	50	50	15.42	15.41	15.43	
20	256QAM	100	0	15.30	15.43	15.46	
Channel				42165	42590	43015	
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	20.00	20.17	20.24	20.5
15	QPSK	1	37	20.19	20.37	20.36	
15	QPSK	1	74	20.21	20.16	20.34	
15	QPSK	36	0	19.35	19.41	19.35	19.5
15	QPSK	36	20	19.25	19.23	19.27	
15	QPSK	36	39	19.23	19.33	19.27	
15	QPSK	75	0	19.09	19.28	19.30	
15	16QAM	1	0	19.05	19.20	19.28	19.5
15	16QAM	1	37	19.26	19.37	19.23	
15	16QAM	1	74	19.12	19.36	19.34	
15	16QAM	36	0	18.18	18.25	18.29	18.5
15	16QAM	36	20	18.30	18.31	18.38	
15	16QAM	36	39	18.34	18.48	18.42	
15	16QAM	75	0	18.09	18.26	18.22	
15	64QAM	1	0	18.01	18.28	18.30	18.5
15	64QAM	1	37	18.06	18.34	18.27	
15	64QAM	1	74	18.18	18.16	18.33	
15	64QAM	36	0	17.25	17.40	17.37	17.5
15	64QAM	36	20	17.12	17.31	17.33	
15	64QAM	36	39	17.16	17.32	17.37	
15	64QAM	75	0	17.10	17.31	17.35	
15	256QAM	1	0	15.09	15.32	15.31	15.5
15	256QAM	1	37	15.28	15.35	15.26	
15	256QAM	1	74	15.28	15.40	15.39	
15	256QAM	36	0	15.16	15.36	15.29	15.5
15	256QAM	36	20	15.18	15.37	15.29	
15	256QAM	36	39	15.35	15.38	15.27	
15	256QAM	75	0	15.28	15.35	15.27	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	20.12	20.30	20.28	20.5
10	QPSK	1	25	20.28	20.37	20.27	
10	QPSK	1	49	20.17	20.14	20.20	
10	QPSK	25	0	19.34	19.33	19.35	19.5
10	QPSK	25	12	19.19	19.35	19.35	
10	QPSK	25	25	19.24	19.28	19.34	
10	QPSK	50	0	19.09	19.20	19.22	19.5
10	16QAM	1	0	19.22	19.25	19.35	
10	16QAM	1	25	19.33	19.28	19.19	
10	16QAM	1	49	19.23	19.31	19.38	18.5
10	16QAM	25	0	18.10	18.20	18.44	
10	16QAM	25	12	18.21	18.31	18.38	
10	16QAM	25	25	18.26	18.29	18.36	18.5
10	16QAM	50	0	18.22	18.27	18.38	
10	64QAM	1	0	18.08	18.21	18.35	
10	64QAM	1	25	18.06	18.35	18.22	18.5
10	64QAM	1	49	18.13	18.35	18.25	
10	64QAM	25	0	17.25	17.41	17.32	
10	64QAM	25	12	17.32	17.25	17.29	17.5
10	64QAM	25	25	17.36	17.27	17.34	
10	64QAM	50	0	17.21	17.25	17.40	
10	256QAM	1	0	15.16	15.29	15.41	15.5
10	256QAM	1	25	15.20	15.24	15.40	
10	256QAM	1	49	15.14	15.28	15.34	
10	256QAM	25	0	15.19	15.26	15.41	15.5
10	256QAM	25	12	15.27	15.26	15.37	
10	256QAM	25	25	15.26	15.29	15.36	
10	256QAM	50	0	15.17	15.29	15.44	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	20.16	20.36	20.37	20.5
5	QPSK	1	12	20.30	20.32	20.29	
5	QPSK	1	24	20.25	20.18	20.34	
5	QPSK	12	0	19.25	19.44	19.30	19.5
5	QPSK	12	7	19.16	19.26	19.29	
5	QPSK	12	13	19.21	19.27	19.38	
5	QPSK	25	0	19.08	19.23	19.29	19.5
5	16QAM	1	0	19.20	19.26	19.21	
5	16QAM	1	12	19.35	19.31	19.23	
5	16QAM	1	24	19.27	19.45	19.35	18.5
5	16QAM	12	0	18.09	18.38	18.37	
5	16QAM	12	7	18.12	18.34	18.30	
5	16QAM	12	13	18.39	18.37	18.39	18.5
5	16QAM	25	0	18.20	18.28	18.35	
5	64QAM	1	0	18.08	18.29	18.25	
5	64QAM	1	12	18.16	18.24	18.37	18.5
5	64QAM	1	24	18.18	18.23	18.22	
5	64QAM	12	0	17.20	17.26	17.26	
5	64QAM	12	7	17.17	17.25	17.35	17.5
5	64QAM	12	13	17.29	17.35	17.35	
5	64QAM	25	0	17.16	17.33	17.37	
5	256QAM	1	0	15.07	15.21	15.33	15.5
5	256QAM	1	12	15.21	15.26	15.31	
5	256QAM	1	24	15.16	15.41	15.40	
5	256QAM	12	0	15.15	15.31	15.44	15.5
5	256QAM	12	7	15.32	15.25	15.38	
5	256QAM	12	13	15.37	15.39	15.38	
5	256QAM	25	0	15.26	15.43	15.41	



TDD LTE Band 42_Ant 5_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	18.20	18.34	18.14	18.5
20	QPSK	1	49	18.37	18.36	18.29	
20	QPSK	1	99	18.36	18.22	18.28	
20	QPSK	50	0	17.41	17.36	17.32	17.5
20	QPSK	50	24	17.34	17.35	17.30	
20	QPSK	50	50	17.30	17.31	17.24	
20	QPSK	100	0	17.44	17.41	17.34	
20	16QAM	1	0	17.33	17.45	17.28	
20	16QAM	1	49	17.24	17.24	17.07	17.5
20	16QAM	1	99	17.38	17.43	17.27	
20	16QAM	50	0	16.29	16.18	16.47	
20	16QAM	50	24	16.41	16.38	16.39	16.5
20	16QAM	50	50	16.37	16.34	16.32	
20	16QAM	100	0	16.29	16.34	16.38	
20	64QAM	1	0	16.31	16.21	16.39	
20	64QAM	1	49	16.35	16.28	16.31	
20	64QAM	1	99	16.34	16.39	16.43	16.5
20	64QAM	50	0	15.34	15.42	15.39	
20	64QAM	50	24	15.34	15.30	15.46	
20	64QAM	50	50	15.48	15.40	15.48	
20	64QAM	100	0	15.30	15.49	15.28	
20	256QAM	1	0	14.17	14.17	14.20	13.5
20	256QAM	1	49	14.15	14.01	14.18	
20	256QAM	1	99	14.41	14.36	14.22	
20	256QAM	50	0	14.34	14.39	14.39	13.5
20	256QAM	50	24	14.39	14.16	14.29	
20	256QAM	50	50	14.35	14.48	14.21	
20	256QAM	100	0	14.30	14.39	14.31	
Channel				42165	42590	43015	
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	18.02	18.23	18.04	18.5
15	QPSK	1	37	18.18	18.29	18.26	
15	QPSK	1	74	18.21	18.17	18.27	
15	QPSK	36	0	17.24	17.30	17.12	17.5
15	QPSK	36	20	17.29	17.17	17.10	
15	QPSK	36	39	17.17	17.21	17.23	
15	QPSK	75	0	17.26	17.20	17.34	
15	16QAM	1	0	17.20	17.35	17.08	
15	16QAM	1	37	17.16	17.10	17.01	17.5
15	16QAM	1	74	17.19	17.36	17.13	
15	16QAM	36	0	16.25	16.07	16.43	
15	16QAM	36	20	16.36	16.31	16.38	16.5
15	16QAM	36	39	16.21	16.25	16.27	
15	16QAM	75	0	16.16	16.18	16.35	
15	64QAM	1	0	16.25	16.04	16.29	
15	64QAM	1	37	16.35	16.12	16.12	
15	64QAM	1	74	16.33	16.25	16.31	16.5
15	64QAM	36	0	15.22	15.24	15.19	
15	64QAM	36	20	15.34	15.16	15.41	
15	64QAM	36	39	15.44	15.40	15.42	
15	64QAM	75	0	15.12	15.36	15.11	
15	256QAM	1	0	13.97	14.16	14.08	13.5
15	256QAM	1	37	14.04	13.82	14.01	
15	256QAM	1	74	14.29	14.29	14.16	
15	256QAM	36	0	14.27	14.35	14.19	13.5
15	256QAM	36	20	14.27	14.11	14.10	
15	256QAM	36	39	14.27	14.31	14.11	
15	256QAM	75	0	14.13	14.21	14.13	



FCC SAR TEST REPORT

Report No. : FA210409

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	18.17	18.29	18.00	18.5
10	QPSK	1	25	18.31	18.22	18.29	
10	QPSK	1	49	18.18	18.14	18.28	
10	QPSK	25	0	17.39	17.17	17.25	17.5
10	QPSK	25	12	17.21	17.29	17.28	
10	QPSK	25	25	17.15	17.28	17.16	
10	QPSK	50	0	17.34	17.36	17.15	17.5
10	16QAM	1	0	17.21	17.43	17.18	
10	16QAM	1	25	17.07	17.15	16.98	
10	16QAM	1	49	17.33	17.25	17.20	16.5
10	16QAM	25	0	16.16	15.99	16.45	
10	16QAM	25	12	16.36	16.29	16.30	
10	16QAM	25	25	16.29	16.25	16.21	16.5
10	16QAM	50	0	16.21	16.27	16.33	
10	64QAM	1	0	16.12	16.11	16.20	
10	64QAM	1	25	16.19	16.19	16.24	16.5
10	64QAM	1	49	16.18	16.34	16.40	
10	64QAM	25	0	15.21	15.33	15.28	
10	64QAM	25	12	15.16	15.10	15.39	15.5
10	64QAM	25	25	15.35	15.34	15.28	
10	64QAM	50	0	15.18	15.34	15.22	
10	256QAM	1	0	14.08	14.08	14.14	13.5
10	256QAM	1	25	13.97	13.99	14.02	
10	256QAM	1	49	14.28	14.28	14.15	
10	256QAM	25	0	14.14	14.39	14.29	13.5
10	256QAM	25	12	14.35	14.08	14.23	
10	256QAM	25	25	14.24	14.39	14.04	
10	256QAM	50	0	14.15	14.38	14.30	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	18.05	18.26	17.94	18.5
5	QPSK	1	12	18.36	18.19	18.25	
5	QPSK	1	24	18.33	18.17	18.17	
5	QPSK	12	0	17.23	17.18	17.32	17.5
5	QPSK	12	7	17.29	17.16	17.23	
5	QPSK	12	13	17.30	17.14	17.24	
5	QPSK	25	0	17.32	17.39	17.14	17.5
5	16QAM	1	0	17.28	17.43	17.08	
5	16QAM	1	12	17.09	17.21	16.90	
5	16QAM	1	24	17.18	17.36	17.19	16.5
5	16QAM	12	0	16.12	16.07	16.33	
5	16QAM	12	7	16.21	16.22	16.20	
5	16QAM	12	13	16.29	16.23	16.12	16.5
5	16QAM	25	0	16.12	16.19	16.18	
5	64QAM	1	0	16.24	16.01	16.24	
5	64QAM	1	12	16.27	16.12	16.28	16.5
5	64QAM	1	24	16.22	16.28	16.24	
5	64QAM	12	0	15.33	15.40	15.22	
5	64QAM	12	7	15.22	15.22	15.30	15.5
5	64QAM	12	13	15.42	15.25	15.33	
5	64QAM	25	0	15.30	15.36	15.10	
5	256QAM	1	0	14.11	13.97	14.07	13.5
5	256QAM	1	12	14.06	13.97	14.12	
5	256QAM	1	24	14.21	14.22	14.21	
5	256QAM	12	0	14.20	14.27	14.24	13.5
5	256QAM	12	7	14.31	14.14	14.28	
5	256QAM	12	13	14.27	14.48	14.17	
5	256QAM	25	0	14.12	14.34	14.21	



FDD FR1 n2_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.60	23.50	23.28	
20	PI/2 BPSK	1	53	23.62	23.56	23.36	24.5
20	PI/2 BPSK	1	104	23.51	23.48	23.07	
20	PI/2 BPSK	50	0	23.02	23.04	22.80	
20	PI/2 BPSK	50	28	23.58	23.42	23.21	24.5
20	PI/2 BPSK	50	56	23.04	22.93	22.63	24.0
20	PI/2 BPSK	100	0	23.06	23.03	22.69	
20	QPSK	1	1	23.60	23.60	23.37	
20	QPSK	1	53	23.59	23.55	23.35	24.5
20	QPSK	1	104	23.57	23.46	23.17	
20	QPSK	50	0	22.52	22.43	22.36	
20	QPSK	50	28	23.59	23.43	23.19	24.5
20	QPSK	50	56	22.50	22.50	22.23	23.5
20	QPSK	100	0	22.53	22.48	22.18	
20	16QAM	1	1	22.87	22.57	22.64	
20	64QAM	1	1	21.33	21.13	21.05	22.0
20	256QAM	1	1	19.10	19.04	18.81	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.55	23.60	23.28	24.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.41	23.46	23.25	24.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.39	23.26	23.16	24.5



FDD FR1 n2_Ant 4_State 0/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.66	22.53	22.65	24.5
20	PI/2 BPSK	1	53	22.73	22.55	22.69	
20	PI/2 BPSK	1	104	22.67	22.70	22.52	
20	PI/2 BPSK	50	0	22.16	22.28	22.18	24.0
20	PI/2 BPSK	50	28	22.62	22.52	22.57	24.5
20	PI/2 BPSK	50	56	22.15	22.01	22.04	24.0
20	PI/2 BPSK	100	0	22.12	22.03	22.07	
20	QPSK	1	1	22.70	22.66	22.51	24.5
20	QPSK	1	53	22.71	22.66	22.64	
20	QPSK	1	104	22.71	22.54	22.49	
20	QPSK	50	0	21.62	21.56	21.70	23.5
20	QPSK	50	28	22.61	22.54	22.57	24.5
20	QPSK	50	56	21.60	21.50	21.52	23.5
20	QPSK	100	0	21.62	21.53	21.59	
20	16QAM	1	1	21.63	21.92	21.72	23.5
20	64QAM	1	1	20.46	20.30	20.17	22.0
20	256QAM	1	1	18.31	18.10	17.91	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.71	22.55	22.64	24.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.63	22.71	22.58	24.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.51	22.68	22.49	24.5



FDD FR1 n2_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.70	22.73	22.69	24.0
20	PI/2 BPSK	1	53	22.55	22.66	22.65	
20	PI/2 BPSK	1	104	22.53	22.67	22.52	
20	PI/2 BPSK	50	0	22.52	22.62	22.57	24.0
20	PI/2 BPSK	50	28	22.28	22.16	22.18	24.0
20	PI/2 BPSK	50	56	22.01	22.15	22.04	24.0
20	PI/2 BPSK	100	0	22.03	22.12	22.07	
20	QPSK	1	1	22.66	22.70	22.51	24.0
20	QPSK	1	53	22.66	22.71	22.64	
20	QPSK	1	104	22.54	22.71	22.49	
20	QPSK	50	0	21.56	21.62	21.70	23.5
20	QPSK	50	28	22.54	22.61	22.57	24.0
20	QPSK	50	56	21.50	21.60	21.52	23.5
20	QPSK	100	0	21.53	21.62	21.59	
20	16QAM	1	1	21.92	21.63	21.72	23.5
20	64QAM	1	1	20.30	20.46	20.17	22.0
20	256QAM	1	1	18.10	18.31	18.10	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.71	22.55	22.64	24.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.63	22.71	22.58	24.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.51	22.68	22.49	24.0



FDD FR1 n2_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	18.0
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.40	17.49	17.48	18.0
20	PI/2 BPSK	1	53	17.14	17.34	17.22	
20	PI/2 BPSK	1	104	17.13	17.22	17.21	
20	PI/2 BPSK	50	0	17.07	17.28	17.15	18.0
20	PI/2 BPSK	50	28	16.98	17.23	17.06	18.0
20	PI/2 BPSK	50	56	16.95	17.20	17.03	18.0
20	PI/2 BPSK	100	0	16.99	17.19	17.07	
20	QPSK	1	1	17.22	17.42	17.30	18.0
20	QPSK	1	53	17.11	17.37	17.19	
20	QPSK	1	104	17.12	17.29	17.20	
20	QPSK	50	0	17.19	17.29	17.27	18.0
20	QPSK	50	28	17.00	17.23	17.08	18.0
20	QPSK	50	56	17.00	17.17	17.08	18.0
20	QPSK	100	0	17.07	17.25	17.15	
20	16QAM	1	1	17.17	17.34	17.25	18.0
20	64QAM	1	1	17.14	17.32	17.22	18.0
20	256QAM	1	1	17.12	17.33	17.20	18.0
Channel				371500	376000	380500	18.0
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.24	17.37	17.39	18.0
Channel				371000	376000	381000	18.0
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	17.35	17.37	17.48	18.0
Channel				370500	376000	381500	18.0
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.40	17.30	17.41	18.0



FDD FR1 n5_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.57	23.48	23.42	24.5
20	PI/2 BPSK	1	53	23.70	23.69	23.62	
20	PI/2 BPSK	1	104	23.54	23.62	23.50	
20	PI/2 BPSK	50	0	23.13	23.17	23.11	24.0
20	PI/2 BPSK	50	28	23.57	23.56	23.48	24.5
20	PI/2 BPSK	50	56	23.03	23.03	21.12	24.0
20	PI/2 BPSK	100	0	23.05	23.00	21.12	
20	QPSK	1	1	23.66	23.67	23.65	24.5
20	QPSK	1	53	23.51	23.54	23.49	
20	QPSK	1	104	23.62	23.67	23.63	
20	QPSK	50	0	22.54	22.58	22.53	23.5
20	QPSK	50	28	23.52	23.56	23.53	24.5
20	QPSK	50	56	22.49	22.58	22.52	23.5
20	QPSK	100	0	22.64	22.52	22.48	
20	16QAM	1	1	22.91	22.95	22.87	23.5
20	64QAM	1	1	21.45	21.30	21.24	22.0
20	256QAM	1	1	19.25	19.23	19.25	20.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.67	23.59	23.54	24.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.68	23.60	23.50	24.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.58	23.51	23.44	24.5



FDD FR1 n5_Ant 3_State 0/1/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	22.67	22.57	22.48	24.5
20	PI/2 BPSK	1	53	22.85	22.77	22.66	
20	PI/2 BPSK	1	104	22.68	22.73	22.65	
20	PI/2 BPSK	50	0	22.24	22.15	22.13	24.0
20	PI/2 BPSK	50	28	22.65	22.60	22.53	24.5
20	PI/2 BPSK	50	56	22.04	22.12	20.38	24.0
20	PI/2 BPSK	100	0	22.09	22.03	19.92	
20	QPSK	1	1	22.80	22.83	18.64	24.5
20	QPSK	1	53	22.64	22.62	19.70	
20	QPSK	1	104	22.68	22.72	19.49	
20	QPSK	50	0	21.73	21.71	21.65	23.5
20	QPSK	50	28	22.63	22.62	22.51	24.5
20	QPSK	50	56	21.53	21.62	21.66	23.5
20	QPSK	100	0	21.64	21.64	21.55	
20	16QAM	1	1	21.69	21.67	21.98	23.5
20	64QAM	1	1	20.52	20.39	20.31	22.0
20	256QAM	1	1	18.36	18.33	18.20	20.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	22.81	22.71	22.61	24.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	22.75	22.64	22.57	24.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	22.71	22.59	22.51	24.5



FDD FR1 n5_Ant 3_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.79	20.83	20.70	21.0
20	PI/2 BPSK	1	53	20.38	20.51	20.29	
20	PI/2 BPSK	1	104	20.40	20.58	20.31	
20	PI/2 BPSK	50	0	20.37	20.56	20.28	21.0
20	PI/2 BPSK	50	28	20.44	20.53	20.35	21.0
20	PI/2 BPSK	50	56	20.36	20.50	20.27	21.0
20	PI/2 BPSK	100	0	20.41	20.53	20.32	
20	QPSK	1	1	20.53	20.64	20.44	21.0
20	QPSK	1	53	20.43	20.55	20.34	
20	QPSK	1	104	20.48	20.56	20.39	
20	QPSK	50	0	20.44	20.55	20.35	21.0
20	QPSK	50	28	20.41	20.49	20.32	21.0
20	QPSK	50	56	20.33	20.50	20.24	21.0
20	QPSK	100	0	20.37	20.49	20.28	
20	16QAM	1	1	20.52	20.61	20.43	21.0
20	64QAM	1	1	20.17	20.33	20.08	21.0
20	256QAM	1	1	18.02	18.23	17.93	20.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.64	20.72	20.65	21.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.70	20.83	20.69	21.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.65	20.74	20.70	21.0



FDD FR1 n7_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.48	23.46	23.24	24.5
40	PI/2 BPSK	1	108	23.62	23.59	23.52	
40	PI/2 BPSK	1	214	23.40	23.42	23.50	
40	PI/2 BPSK	108	0	22.98	22.77	22.93	24.0
40	PI/2 BPSK	108	54	23.50	23.44	23.35	24.5
40	PI/2 BPSK	108	108	22.80	23.12	23.05	24.0
40	PI/2 BPSK	216	0	23.02	22.96	22.92	
40	QPSK	1	1	23.31	23.38	23.57	24.5
40	QPSK	1	108	23.56	23.43	23.37	
40	QPSK	1	214	22.41	23.38	23.61	
40	QPSK	108	0	22.26	22.41	22.39	23.5
40	QPSK	108	54	23.50	23.28	23.32	24.5
40	QPSK	108	108	22.45	22.34	22.47	23.5
40	QPSK	216	0	22.63	22.39	22.41	
40	16QAM	1	1	22.53	22.33	22.73	23.5
40	64QAM	1	1	21.01	21.17	21.17	22.0
40	256QAM	1	1	18.78	19.24	19.07	20.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.47	23.46	23.25	24.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.38	23.35	23.22	24.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.33	23.38	23.18	24.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.22	23.16	23.15	24.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.17	23.17	23.07	24.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.18	23.08	22.99	24.5



FDD FR1 n7_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.55	22.51	22.54	24.5
40	PI/2 BPSK	1	108	22.61	22.55	22.59	
40	PI/2 BPSK	1	214	22.57	22.50	22.56	
40	PI/2 BPSK	108	0	22.00	22.05	22.02	24.0
40	PI/2 BPSK	108	54	22.59	22.58	22.53	24.5
40	PI/2 BPSK	108	108	22.29	22.06	22.00	24.0
40	PI/2 BPSK	216	0	22.12	22.10	22.02	
40	QPSK	1	1	22.55	22.58	22.50	24.5
40	QPSK	1	108	22.53	22.54	22.51	
40	QPSK	1	214	22.51	22.50	22.57	
40	QPSK	108	0	21.53	21.54	21.57	23.5
40	QPSK	108	54	22.56	22.53	22.50	24.5
40	QPSK	108	108	21.93	21.62	21.64	23.5
40	QPSK	216	0	21.80	21.67	21.64	
40	16QAM	1	1	21.76	22.02	21.92	23.5
40	64QAM	1	1	20.17	20.43	20.33	22.0
40	256QAM	1	1	18.08	18.28	18.19	20.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.52	22.50	22.52	24.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.51	22.55	22.55	24.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.50	22.60	22.53	24.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.51	22.50	22.56	24.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.57	22.50	22.53	24.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.58	22.51	22.55	24.5



FDD FR1 n7_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	16.92	17.03	16.74	18.0
40	PI/2 BPSK	1	108	16.51	16.74	16.33	
40	PI/2 BPSK	1	214	16.56	16.83	16.38	
40	PI/2 BPSK	108	0	16.44	16.74	16.26	18.0
40	PI/2 BPSK	108	54	16.52	16.63	16.34	18.0
40	PI/2 BPSK	108	108	16.34	16.62	16.16	18.0
40	PI/2 BPSK	216	0	16.61	16.77	16.43	
40	QPSK	1	1	16.61	16.84	16.43	
40	QPSK	1	108	16.65	16.79	16.47	18.0
40	QPSK	1	214	16.84	16.98	16.66	
40	QPSK	108	0	16.50	16.69	16.32	
40	QPSK	108	54	16.49	16.61	16.31	18.0
40	QPSK	108	108	16.63	16.78	16.45	17.5
40	QPSK	216	0	16.48	16.73	16.30	
40	16QAM	1	1	16.85	17.02	16.67	
40	64QAM	1	1	16.73	16.91	16.55	18.0
40	256QAM	1	1	16.30	16.43	16.12	18.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	16.72	16.94	16.56	18.0
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	16.81	16.93	16.61	18.0
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	16.79	16.94	16.63	18.0
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	16.79	16.95	16.60	18.0
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	16.84	16.99	16.66	18.0
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	16.82	16.88	16.69	18.0



FDD FR1 n7_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	14.15	14.32	14.00	15.0
40	PI/2 BPSK	1	108	13.60	13.92	13.45	
40	PI/2 BPSK	1	214	13.96	14.25	13.81	
40	PI/2 BPSK	108	0	13.86	14.10	13.71	15.0
40	PI/2 BPSK	108	54	13.66	13.92	13.51	15.0
40	PI/2 BPSK	108	108	13.73	14.08	13.58	15.0
40	PI/2 BPSK	216	0	13.66	14.00	13.51	
40	QPSK	1	1	13.80	14.08	13.65	15.0
40	QPSK	1	108	13.72	13.89	13.57	
40	QPSK	1	214	13.67	14.02	13.52	
40	QPSK	108	0	13.77	14.02	13.62	15.0
40	QPSK	108	54	13.56	13.92	13.41	15.0
40	QPSK	108	108	13.80	14.08	13.65	15.0
40	QPSK	216	0	13.72	13.99	13.57	
40	16QAM	1	1	13.97	14.21	13.82	15.0
40	64QAM	1	1	13.85	14.12	13.70	15.0
40	256QAM	1	1	13.77	14.04	13.62	15.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	14.05	14.18	13.87	15.0
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	14.03	14.13	13.94	15.0
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	14.02	14.18	13.85	15.0
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	14.04	14.21	13.86	15.0
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	14.06	14.13	13.97	15.0
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	14.04	14.17	13.96	15.0



FDD FR1 n7_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	19.30	19.41	19.10	20.5
40	PI/2 BPSK	1	108	18.84	19.00	18.64	
40	PI/2 BPSK	1	214	19.15	19.34	18.95	
40	PI/2 BPSK	108	0	18.91	19.15	18.71	20.5
40	PI/2 BPSK	108	54	18.81	18.93	18.61	20.5
40	PI/2 BPSK	108	108	18.87	19.14	18.67	20.5
40	PI/2 BPSK	216	0	19.00	19.14	18.80	
40	QPSK	1	1	18.93	19.20	18.73	
40	QPSK	1	108	18.76	19.04	18.56	20.5
40	QPSK	1	214	19.23	19.34	19.03	
40	QPSK	108	0	18.95	19.07	18.75	
40	QPSK	108	54	18.74	18.98	18.54	20.5
40	QPSK	108	108	18.91	19.13	18.71	19.5
40	QPSK	216	0	18.89	19.05	18.69	
40	16QAM	1	1	18.93	19.22	18.73	
40	64QAM	1	1	19.06	19.28	18.86	20.5
40	256QAM	1	1	17.44	17.65	17.24	20.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	19.30	19.34	19.08	20.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	19.22	19.40	19.02	20.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	19.18	19.27	18.96	20.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	19.19	19.32	18.93	20.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	19.11	19.21	18.98	20.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	19.18	19.21	19.06	20.5



FDD FR1 n12_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	Tune-up limit (dBm)
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.75	23.63	23.64	
15	PI/2 BPSK	1	40	24.07	23.92	23.94	24.5
15	PI/2 BPSK	1	77	23.74	23.81	23.77	
15	PI/2 BPSK	36	0	23.87	23.74	23.71	
15	PI/2 BPSK	36	22	23.97	23.93	23.90	24.5
15	PI/2 BPSK	36	43	23.93	23.83	23.87	24.0
15	PI/2 BPSK	75	0	23.89	23.84	23.87	
15	QPSK	1	1	23.82	23.66	23.73	
15	QPSK	1	40	24.05	24.00	24.04	24.5
15	QPSK	1	77	23.90	23.88	23.94	
15	QPSK	36	0	23.39	23.21	23.37	
15	QPSK	36	22	23.92	23.96	23.93	24.5
15	QPSK	36	43	23.33	23.39	23.39	23.5
15	QPSK	75	0	23.44	23.44	23.43	
15	16QAM	1	1	23.58	23.33	23.12	
15	64QAM	1	1	21.90	21.73	21.87	22.0
	256QAM	1	1	19.67	19.63	19.75	20.0
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.66	23.49	23.43	
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.48	23.45	23.42	



FDD FR1 n12_Ant 3_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	Tune-up limit (dBm)
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.41	23.34	23.32	
15	PI/2 BPSK	1	40	23.74	23.69	23.68	24.5
15	PI/2 BPSK	1	77	23.46	23.63	23.46	
15	PI/2 BPSK	36	0	23.02	22.96	22.91	
15	PI/2 BPSK	36	22	23.69	23.64	23.63	24.5
15	PI/2 BPSK	36	43	23.17	23.18	23.19	24.0
15	PI/2 BPSK	75	0	23.13	23.03	23.04	
15	QPSK	1	1	23.48	23.46	23.35	
15	QPSK	1	40	23.69	23.66	23.71	24.5
15	QPSK	1	77	23.51	23.59	23.53	
15	QPSK	36	0	22.54	22.39	22.46	
15	QPSK	36	22	23.73	23.71	23.64	24.5
15	QPSK	36	43	22.66	22.63	22.67	23.5
15	QPSK	75	0	22.68	22.61	22.53	
15	16QAM	1	1	22.72	22.32	22.58	
15	64QAM	1	1	21.02	20.97	20.94	22.0
	256QAM	1	1	18.97	18.93	18.87	20.0
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.36	23.25	23.21	24.5
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.28	23.22	23.20	24.5



FDD FR1 n25_Ant 2_State 01/12/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	24.5
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.55	23.53	23.34	24.5
40	PI/2 BPSK	1	108	23.64	23.61	23.54	
40	PI/2 BPSK	1	214	23.50	23.30	23.08	
40	PI/2 BPSK	108	0	23.18	23.01	23.03	24.0
40	PI/2 BPSK	108	54	23.51	23.46	23.42	24.5
40	PI/2 BPSK	108	108	23.13	22.95	22.74	24.0
40	PI/2 BPSK	216	0	23.06	23.04	23.00	
40	QPSK	1	1	23.54	23.60	23.58	24.5
40	QPSK	1	108	23.63	23.54	23.42	
40	QPSK	1	214	23.47	23.33	22.93	
40	QPSK	108	0	22.61	22.57	22.56	23.5
40	QPSK	108	54	23.53	23.45	23.39	24.5
40	QPSK	108	108	22.59	22.48	22.28	23.5
40	QPSK	216	0	22.59	22.63	22.45	
40	16QAM	1	1	22.56	22.85	22.85	23.5
40	64QAM	1	1	21.44	21.32	21.29	22.0
40	256QAM	1	1	19.33	19.14	19.22	20.0
Channel				343	349	354	24.5
Frequency (MHz)				38.35	182.728692	327.107384	
30	PI/2 BPSK	1	1	23.60	23.63	23.53	24.5
Channel				372500	376500	380500	24.5
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.51	23.57	23.43	24.5
Channel				372000	376500	381000	24.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.39	23.54	23.40	24.5
Channel				342	349	355	24.5
Frequency (MHz)				30.85	182.728692	334.607384	
15	PI/2 BPSK	1	1	23.43	23.63	23.34	24.5
Channel				342	349	355	24.5
Frequency (MHz)				28.35	182.728692	337.107384	
10	PI/2 BPSK	1	1	23.35	23.41	23.30	24.5
Channel				342	-7782	-222	24.5
Frequency (MHz)				25.85	185261.675	370497.5	
5	PI/2 BPSK	1	1	23.40	23.42	23.27	24.5



FDD FR1 n25_Ant 4_State 0/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	22.72	22.64	22.56	24.5
40	PI/2 BPSK	1	108	22.74	22.71	22.63	
40	PI/2 BPSK	1	214	22.52	22.53	22.60	
40	PI/2 BPSK	108	0	22.25	22.23	22.05	24.0
40	PI/2 BPSK	108	54	22.69	22.53	22.55	24.5
40	PI/2 BPSK	108	108	22.09	22.03	22.06	24.0
40	PI/2 BPSK	216	0	22.20	22.07	22.17	
40	QPSK	1	1	22.69	22.68	22.62	24.5
40	QPSK	1	108	22.70	22.61	22.65	
40	QPSK	1	214	22.58	22.50	21.81	
40	QPSK	108	0	21.76	21.62	21.55	23.5
40	QPSK	108	54	22.64	22.59	22.57	24.5
40	QPSK	108	108	21.60	21.53	21.57	23.5
40	QPSK	216	0	21.61	21.59	21.62	
40	16QAM	1	1	22.08	21.99	21.86	23.5
40	64QAM	1	1	20.50	20.46	20.26	22.0
40	256QAM	1	1	18.42	18.36	18.18	20.0
Channel				342	348	354	Tune-up limit (dBm)
Frequency (MHz)				37.67	181.972241	326.274481	
30	PI/2 BPSK	1	1	22.68	22.66	22.52	24.5
Channel				342	348	354	Tune-up limit (dBm)
Frequency (MHz)				35.17	181.972241	328.774481	
25	PI/2 BPSK	1	1	22.61	22.58	22.66	24.5
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	22.56	22.67	22.61	24.5
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	22.51	22.63	22.58	24.5
Channel				341	348	354	Tune-up limit (dBm)
Frequency (MHz)				27.67	181.972241	336.274481	
10	PI/2 BPSK	1	1	22.67	22.57	22.53	24.5
Channel				341	-7783	-222	Tune-up limit (dBm)
Frequency (MHz)				25.17	185261.335	370497.5	
5	PI/2 BPSK	1	1	22.60	22.51	22.55	24.5



FDD FR1 n25_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	22.72	22.64	22.56	24.0
40	PI/2 BPSK	1	108	22.74	22.71	22.63	
40	PI/2 BPSK	1	214	22.52	22.53	22.60	
40	PI/2 BPSK	108	0	22.25	22.23	22.05	24.0
40	PI/2 BPSK	108	54	22.69	22.53	22.55	24.0
40	PI/2 BPSK	108	108	22.09	22.03	22.06	24.0
40	PI/2 BPSK	216	0	22.20	22.07	22.17	
40	QPSK	1	1	22.69	22.68	22.62	24.0
40	QPSK	1	108	22.70	22.61	22.65	
40	QPSK	1	214	22.58	22.50	21.81	
40	QPSK	108	0	21.76	21.62	21.55	23.5
40	QPSK	108	54	22.64	22.59	22.57	24.0
40	QPSK	108	108	21.60	21.53	21.57	23.5
40	QPSK	216	0	21.61	21.59	21.62	
40	16QAM	1	1	22.08	21.99	21.86	23.5
40	64QAM	1	1	20.50	20.46	20.26	22.0
40	256QAM	1	1	18.42	18.36	18.18	20.0
Channel				355	362	368	Tune-up limit (dBm)
Frequency (MHz)				37.67	188.679952	339.689905	
30	PI/2 BPSK	1	1	22.68	22.66	22.52	24.0
Channel				355	362	368	Tune-up limit (dBm)
Frequency (MHz)				35.17	188.679952	342.189905	
25	PI/2 BPSK	1	1	22.61	22.58	22.66	24.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	22.56	22.67	22.61	24.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	22.51	22.63	22.58	24.0
Channel				355	362	368	Tune-up limit (dBm)
Frequency (MHz)				27.67	188.679952	349.689905	
10	PI/2 BPSK	1	1	22.67	22.57	22.53	24.0
Channel				355	-7946	-228	Tune-up limit (dBm)
Frequency (MHz)				25.17	185261.335	370497.5	
5	PI/2 BPSK	1	1	22.60	22.51	22.55	24.0



FDD FR1 n25_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	21.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	19.51	19.70	19.48	21.0
40	PI/2 BPSK	1	108	19.21	19.43	19.18	
40	PI/2 BPSK	1	214	18.65	19.03	18.62	
40	PI/2 BPSK	108	0	19.11	19.44	19.08	21.0
40	PI/2 BPSK	108	54	18.99	19.21	18.96	21.0
40	PI/2 BPSK	108	108	18.96	19.21	18.93	21.0
40	PI/2 BPSK	216	0	18.97	19.26	18.94	
40	QPSK	1	1	19.20	19.51	19.17	21.0
40	QPSK	1	108	19.12	19.43	19.09	
40	QPSK	1	214	18.76	19.01	18.73	
40	QPSK	108	0	19.12	19.43	19.09	21.0
40	QPSK	108	54	18.93	19.18	18.90	21.0
40	QPSK	108	108	18.81	19.15	18.78	21.0
40	QPSK	216	0	19.02	19.21	18.99	
40	16QAM	1	1	19.42	19.68	19.39	21.0
40	64QAM	1	1	19.25	19.61	19.22	21.0
40	256QAM	1	1	18.78	19.02	18.75	20.0
Channel				372000	376500	381000	21.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	19.38	19.70	19.45	21.0
Channel				372000	376500	381000	21.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	19.38	19.60	19.29	21.0
Channel				372000	376500	381000	21.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	19.39	19.54	19.43	21.0
Channel				371500	376500	381500	21.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	19.48	19.66	19.36	21.0
Channel				370000	376500	383000	21.0
Frequency (MHz)				1850	1882.5	1915	
10	PI/2 BPSK	1	1	19.36	19.58	19.30	21.0
Channel				370500	376500	382500	21.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	19.45	19.59	19.30	21.0



FDD FR1 n66_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.01	22.88	22.85	
40	PI/2 BPSK	1	108	23.15	23.10	23.11	24.5
40	PI/2 BPSK	1	214	23.14	23.09	23.10	
40	PI/2 BPSK	108	0	22.62	22.41	22.49	
40	PI/2 BPSK	108	54	23.14	23.06	23.00	24.5
40	PI/2 BPSK	108	108	22.82	22.61	22.57	24.0
40	PI/2 BPSK	216	0	22.65	22.62	22.63	
40	QPSK	1	1	23.10	22.90	22.97	
40	QPSK	1	108	23.10	23.10	23.10	24.5
40	QPSK	1	214	23.12	23.13	23.12	
40	QPSK	108	0	22.13	21.89	22.01	
40	QPSK	108	54	23.11	23.14	23.04	24.5
40	QPSK	108	108	22.34	22.19	22.12	23.5
40	QPSK	216	0	22.25	22.10	22.10	
40	16QAM	1	1	22.36	21.80	22.21	
40	64QAM	1	1	20.83	20.59	20.66	22.0
40	256QAM	1	1	18.64	18.50	18.45	20.0
Channel				319	325	330	Tune-up limit (dBm)
Frequency (MHz)				37.93	170.834388	303.738776	
30	PI/2 BPSK	1	1	23.12	22.75	23.11	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.07	22.83	23.13	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.93	22.84	23.03	
Channel				319	-7222	-222	Tune-up limit (dBm)
Frequency (MHz)				27.93	171511.465	342995	
10	PI/2 BPSK	1	1	23.06	22.87	22.88	
Channel				-14221	-7222	-222	Tune-up limit (dBm)
Frequency (MHz)				25.43	171511.465	342997.5	
5	PI/2 BPSK	1	1	23.05	22.85	22.95	



FDD FR1 n66_Ant 4_State 0/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	24.5
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.53	22.55	22.51	
40	PI/2 BPSK	1	108	22.77	22.60	22.65	24.0
40	PI/2 BPSK	1	214	22.61	22.53	22.59	
40	PI/2 BPSK	108	0	22.07	22.06	22.00	
40	PI/2 BPSK	108	54	22.70	22.52	22.63	24.0
40	PI/2 BPSK	108	108	22.22	22.08	22.16	
40	PI/2 BPSK	216	0	22.19	22.02	22.07	
40	QPSK	1	1	22.71	22.57	22.56	24.5
40	QPSK	1	108	22.75	22.65	22.72	
40	QPSK	1	214	22.76	22.62	22.65	
40	QPSK	108	0	21.65	21.56	21.53	23.5
40	QPSK	108	54	22.71	22.55	22.53	
40	QPSK	108	108	21.78	21.63	21.65	
40	QPSK	216	0	21.76	21.60	21.56	23.5
40	16QAM	1	1	21.90	21.54	21.69	
40	64QAM	1	1	20.28	20.22	20.12	
40	256QAM	1	1	18.11	18.10	18.15	20.0
Channel				319	324	330	24.5
Frequency (MHz)				37.58	170.489329	303.398659	
30	PI/2 BPSK	1	1	22.56	22.63	22.67	
Channel				344000	349000	354000	24.5
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.63	22.56	22.61	
Channel				343500	349000	354500	24.5
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.58	22.50	22.55	
Channel				318	-7222	-223	24.5
Frequency (MHz)				27.58	171511.29	342995	
10	PI/2 BPSK	1	1	22.51	22.62	22.63	
Channel				-14221	-7222	-223	24.5
Frequency (MHz)				25.08	171511.29	342997.5	
5	PI/2 BPSK	1	1	22.59	22.57	22.56	



FDD FR1 n66_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.77	22.60	22.65	23.0
40	PI/2 BPSK	1	108	22.53	22.55	22.51	
40	PI/2 BPSK	1	214	22.61	22.53	22.59	
40	PI/2 BPSK	108	0	22.70	22.52	22.63	23.0
40	PI/2 BPSK	108	54	22.07	22.06	22.00	23.0
40	PI/2 BPSK	108	108	22.22	22.08	22.16	23.0
40	PI/2 BPSK	216	0	22.19	22.02	22.07	
40	QPSK	1	1	22.71	22.57	22.56	23.0
40	QPSK	1	108	22.75	22.65	22.72	
40	QPSK	1	214	22.76	22.62	22.65	
40	QPSK	108	0	21.65	21.56	21.53	23.0
40	QPSK	108	54	22.71	22.55	22.53	23.0
40	QPSK	108	108	21.78	21.63	21.65	23.0
40	QPSK	216	0	21.76	21.60	21.56	
40	16QAM	1	1	21.90	21.54	21.69	23.0
40	64QAM	1	1	20.28	20.22	20.12	22.0
40	256QAM	1	1	18.11	18.10	18.15	20.0
Channel				359	365	372	Tune-up limit (dBm)
Frequency (MHz)				37.58	190.40914	343.23828	
30	PI/2 BPSK	1	1	22.56	22.63	22.67	23.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.63	22.56	22.61	23.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.58	22.50	22.55	23.0
Channel				358	-7694	-239	Tune-up limit (dBm)
Frequency (MHz)				27.58	171511.29	342995	
10	PI/2 BPSK	1	1	22.51	22.62	22.63	23.0
Channel				-15150	-7694	-238	Tune-up limit (dBm)
Frequency (MHz)				25.08	171511.29	342997.5	
5	PI/2 BPSK	1	1	22.59	22.57	22.56	23.0



FDD FR1 n66_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	20.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.67	19.04	18.96	
40	PI/2 BPSK	1	108	18.49	18.96	18.78	20.0
40	PI/2 BPSK	1	214	18.57	19.03	18.86	
40	PI/2 BPSK	108	0	18.61	19.00	18.90	
40	PI/2 BPSK	108	54	18.44	18.93	18.73	20.0
40	PI/2 BPSK	108	108	18.46	18.89	18.75	20.0
40	PI/2 BPSK	216	0	18.38	18.92	18.67	
40	QPSK	1	1	18.33	18.86	18.62	
40	QPSK	1	108	18.49	18.94	18.78	20.0
40	QPSK	1	214	18.51	18.97	18.80	
40	QPSK	108	0	18.29	18.78	18.58	
40	QPSK	108	54	18.30	18.87	18.59	20.0
40	QPSK	108	108	18.46	19.01	18.75	20.0
40	QPSK	216	0	18.48	18.93	18.77	
40	16QAM	1	1	18.58	19.02	18.87	
40	64QAM	1	1	18.49	19.01	18.78	20.0
40	256QAM	1	1	17.74	18.24	18.03	20.0
Channel				345000	349000	353000	20.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.53	18.88	18.90	
Channel				344000	349000	354000	20.0
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	18.62	18.87	18.85	
Channel				343500	349000	354500	20.0
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.54	18.98	18.80	
Channel				343000	349000	355000	20.0
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.53	19.00	18.93	
Channel				342500	349000	355500	20.0
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.57	18.92	18.89	



FDD FR1 n71_Ant 1_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.40	23.24	23.31	
20	PI/2 BPSK	1	53	23.57	23.52	23.40	24.5
20	PI/2 BPSK	1	104	23.52	23.49	22.43	
20	PI/2 BPSK	50	0	22.96	22.73	22.78	
20	PI/2 BPSK	50	28	22.97	22.74	22.70	24.5
20	PI/2 BPSK	50	56	22.80	22.57	22.35	24.0
20	PI/2 BPSK	100	0	22.88	22.73	22.57	
20	QPSK	1	1	23.52	23.51	23.38	
20	QPSK	1	53	23.37	23.34	23.36	24.5
20	QPSK	1	104	22.31	22.15	22.01	
20	QPSK	50	0	22.51	22.37	22.28	
20	QPSK	50	28	22.39	22.23	22.24	24.5
20	QPSK	50	56	22.28	22.08	21.85	23.5
20	QPSK	100	0	22.47	22.18	22.18	
20	16QAM	1	1	22.53	22.68	22.58	
20	64QAM	1	1	21.27	21.13	21.00	22.0
20	256QAM	1	1	19.12	18.97	18.81	20.0
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.55	23.55	23.44	24.5
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.54	23.45	23.37	24.5
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.51	23.47	23.40	24.5



FDD FR1 n71_Ant 3_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.84	22.63	22.59	24.5
20	PI/2 BPSK	1	53	23.03	22.81	22.64	
20	PI/2 BPSK	1	104	22.67	22.63	22.76	
20	PI/2 BPSK	50	0	22.40	22.19	22.06	24.0
20	PI/2 BPSK	50	28	22.79	22.64	22.58	24.5
20	PI/2 BPSK	50	56	22.16	22.08	22.21	24.0
20	PI/2 BPSK	100	0	22.26	22.12	22.07	
20	QPSK	1	1	23.00	22.90	22.70	24.5
20	QPSK	1	53	22.84	22.69	22.65	
20	QPSK	1	104	22.69	22.70	22.77	
20	QPSK	50	0	21.84	21.70	21.61	23.5
20	QPSK	50	28	22.83	22.65	22.59	24.5
20	QPSK	50	56	21.65	21.57	21.63	23.5
20	QPSK	100	0	21.76	21.66	21.65	
20	16QAM	1	1	22.28	22.07	21.93	23.5
20	64QAM	1	1	20.68	20.56	20.38	22.0
20	256QAM	1	1	18.43	18.31	18.11	20.0
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	22.97	22.89	22.77	24.5
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	22.89	22.78	22.66	24.5
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	22.85	22.77	22.54	24.5



TDD FR1 n38_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518004	519000	519996	Tune-up limit (dBm)
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	23.68	23.73	23.71	24.5
40	PI/2 BPSK	1	53	23.70	23.75	23.73	
40	PI/2 BPSK	1	104	23.54	23.58	23.54	
40	PI/2 BPSK	50	0	23.50	23.62	23.52	24.0
40	PI/2 BPSK	50	28	23.56	23.66	23.60	24.5
40	PI/2 BPSK	50	56	23.52	23.57	23.51	24.0
40	PI/2 BPSK	100	0	23.44	23.50	23.47	
40	QPSK	1	1	23.69	23.70	23.59	24.5
40	QPSK	1	53	23.65	23.70	23.67	
40	QPSK	1	104	23.33	23.56	23.30	
40	QPSK	50	0	22.80	22.81	22.75	24.5
40	QPSK	50	28	23.29	23.04	22.92	
40	QPSK	50	56	22.95	23.00	22.80	
40	QPSK	100	0	22.87	22.85	23.01	23.5
40	16QAM	1	1	23.15	23.46	23.42	23.5
40	64QAM	1	1	21.61	21.66	21.86	22.0
40	256QAM	1	1	19.69	19.67	19.62	20.0
Channel				516504	519000	521496	Tune-up limit (dBm)
Frequency (MHz)				2582.52	2595	2607.48	
30	PI/2 BPSK	1	1	23.50	23.57	23.52	24.5
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.59	23.60	23.69	24.5
Channel				515502	519000	522498	Tune-up limit (dBm)
Frequency (MHz)				2577.51	2595	2612.49	
15	PI/2 BPSK	1	1	23.67	23.72	23.64	24.5
Channel				515004	519000	522996	Tune-up limit (dBm)
Frequency (MHz)				2575.02	2595	2614.98	
10	PI/2 BPSK	1	1	23.51	23.56	23.51	24.5



TDD FR1 n38_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518004	519000	519996	Tune-up limit (dBm)
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	22.53	22.57	22.52	24.5
40	PI/2 BPSK	1	53	22.55	22.59	22.57	
40	PI/2 BPSK	1	104	22.52	22.54	22.53	
40	PI/2 BPSK	50	0	22.09	22.03	22.00	24.0
40	PI/2 BPSK	50	28	22.52	22.57	22.55	24.5
40	PI/2 BPSK	50	56	22.05	22.06	22.02	24.0
40	PI/2 BPSK	100	0	22.05	22.10	22.08	
40	QPSK	1	1	22.50	22.54	22.53	23.5
40	QPSK	1	53	22.54	22.57	22.55	
40	QPSK	1	104	22.52	22.53	22.53	
40	QPSK	50	0	21.51	21.55	21.57	23.5
40	QPSK	50	28	22.20	22.15	22.25	
40	QPSK	50	56	21.50	21.52	21.50	
40	QPSK	100	0	21.53	21.56	21.51	23.5
40	16QAM	1	1	21.55	21.56	21.50	23.5
40	64QAM	1	1	20.19	20.21	20.23	22.0
40	256QAM	1	1	18.05	18.08	18.15	20.0
Channel				517002	519000	520998	Tune-up limit (dBm)
Frequency (MHz)				2585.01	2595	2604.99	
30	PI/2 BPSK	1	1	22.54	22.53	22.53	24.5
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.56	22.55	22.52	24.5
Channel				515502	519000	522498	Tune-up limit (dBm)
Frequency (MHz)				2577.51	2595	2612.49	
15	PI/2 BPSK	1	1	22.53	22.57	22.51	24.5
Channel				515004	519000	522996	Tune-up limit (dBm)
Frequency (MHz)				2575.02	2595	2614.98	
10	PI/2 BPSK	1	1	22.52	22.55	22.54	24.5



TDD FR1 n38_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518004	519000	519996	19.0
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	17.99	18.10	18.28	19.0
40	PI/2 BPSK	1	53	17.96	18.21	18.19	
40	PI/2 BPSK	1	104	18.04	18.19	18.27	
40	PI/2 BPSK	50	0	17.93	18.20	18.16	19.0
40	PI/2 BPSK	50	28	17.88	18.13	18.11	19.0
40	PI/2 BPSK	50	56	17.89	18.08	18.12	19.0
40	PI/2 BPSK	100	0	17.87	18.07	18.10	
40	QPSK	1	1	17.89	18.12	18.12	19.0
40	QPSK	1	53	18.10	18.21	18.13	
40	QPSK	1	104	17.79	18.05	18.02	
40	QPSK	50	0	17.89	18.03	18.12	19.0
40	QPSK	50	28	17.99	18.11	18.22	
40	QPSK	50	56	17.92	18.04	18.15	
40	QPSK	100	0	17.94	18.06	18.17	19.0
40	16QAM	1	1	17.84	18.09	18.07	19.0
40	64QAM	1	1	17.99	18.15	18.22	19.0
40	256QAM	1	1	17.51	17.69	17.72	19.0
Channel				517002	519000	520998	19.0
Frequency (MHz)				2585.01	2595	2604.99	
30	PI/2 BPSK	1	1	17.94	17.95	18.05	19.0
Channel				516000	519000	522000	19.0
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	17.99	17.93	18.01	19.0
Channel				515502	519000	522498	19.0
Frequency (MHz)				2577.51	2595	2612.49	
15	PI/2 BPSK	1	1	17.98	18.04	18.11	19.0
Channel				515004	519000	522996	19.0
Frequency (MHz)				2575.02	2595	2614.98	
10	PI/2 BPSK	1	1	17.80	18.07	18.02	19.0



TDD FR1 n38_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518004	519000	519996	16.0
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	15.49	15.88	15.86	16.0
40	PI/2 BPSK	1	53	15.42	15.84	15.79	
40	PI/2 BPSK	1	104	15.21	15.79	15.58	
40	PI/2 BPSK	50	0	15.21	15.76	15.58	16.0
40	PI/2 BPSK	50	28	15.17	15.71	15.54	16.0
40	PI/2 BPSK	50	56	15.24	15.74	15.61	16.0
40	PI/2 BPSK	100	0	15.19	15.73	15.56	
40	QPSK	1	1	15.18	15.66	15.55	16.0
40	QPSK	1	53	15.04	15.61	15.41	
40	QPSK	1	104	15.24	15.69	15.61	
40	QPSK	50	0	14.97	15.54	15.34	16.0
40	QPSK	50	28	15.05	15.60	15.42	
40	QPSK	50	56	15.01	15.51	15.38	
40	QPSK	100	0	14.85	15.43	15.22	16.0
40	16QAM	1	1	14.98	15.44	15.35	16.0
40	64QAM	1	1	15.13	15.62	15.50	16.0
40	256QAM	1	1	14.90	15.49	15.27	16.0
Channel				517002	519000	520998	16.0
Frequency (MHz)				2585.01	2595	2604.99	
30	PI/2 BPSK	1	1	15.35	15.70	15.76	16.0
Channel				516000	519000	522000	16.0
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	15.34	15.87	15.79	16.0
Channel				515502	519000	522498	16.0
Frequency (MHz)				2577.51	2595	2612.49	
15	PI/2 BPSK	1	1	15.29	15.88	15.75	16.0
Channel				515004	519000	522996	16.0
Frequency (MHz)				2575.02	2595	2614.98	
10	PI/2 BPSK	1	1	15.33	15.69	15.86	16.0



TDD FR1 n38_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518004	519000	519996	Tune-up limit (dBm)
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	19.11	19.32	19.52	20.5
40	PI/2 BPSK	1	53	19.21	19.44	19.41	
40	PI/2 BPSK	1	104	19.06	19.31	19.46	
40	PI/2 BPSK	50	0	18.96	19.35	19.36	20.5
40	PI/2 BPSK	50	28	19.02	19.28	19.42	20.5
40	PI/2 BPSK	50	56	18.85	19.26	19.25	20.5
40	PI/2 BPSK	100	0	18.83	19.21	19.23	
40	QPSK	1	1	18.88	19.29	19.28	20.5
40	QPSK	1	53	19.11	19.36	19.51	
40	QPSK	1	104	19.01	19.31	19.41	
40	QPSK	50	0	19.03	19.28	19.43	20.5
40	QPSK	50	28	18.90	19.29	19.30	
40	QPSK	50	56	18.95	19.21	19.35	
40	QPSK	100	0	18.86	19.22	19.26	20.5
40	16QAM	1	1	18.91	19.16	19.31	20.5
40	64QAM	1	1	19.03	19.31	19.43	20.5
40	256QAM	1	1	18.02	18.21	18.36	20.0
Channel				517002	519000	520998	Tune-up limit (dBm)
Frequency (MHz)				2585.01	2595	2604.99	
30	PI/2 BPSK	1	1	18.93	19.29	19.37	20.5
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.06	19.15	19.48	20.5
Channel				515502	519000	522498	Tune-up limit (dBm)
Frequency (MHz)				2577.51	2595	2612.49	
15	PI/2 BPSK	1	1	19.09	19.20	19.51	20.5
Channel				515004	519000	522996	Tune-up limit (dBm)
Frequency (MHz)				2575.02	2595	2614.98	
10	PI/2 BPSK	1	1	19.08	19.21	19.44	20.5



TDD FR1 n41_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.60	23.67	23.47	24.5
100	PI/2 BPSK	1	137	23.65	23.77	23.70	
100	PI/2 BPSK	1	271	23.62	23.37	22.58	
100	PI/2 BPSK	135	0	23.02	23.19	22.93	24.0
100	PI/2 BPSK	135	69	23.56	23.60	23.22	24.5
100	PI/2 BPSK	135	138	23.14	22.94	22.50	24.0
100	PI/2 BPSK	270	0	23.07	23.10	22.75	
100	QPSK	1	1	23.64	23.69	23.73	24.5
100	QPSK	1	137	23.63	23.70	23.31	
100	QPSK	1	271	23.73	23.40	22.80	
100	QPSK	135	0	22.56	22.62	22.48	24.5
100	QPSK	135	69	23.07	23.05	23.02	
100	QPSK	135	138	22.64	22.45	22.33	
100	QPSK	270	0	22.56	22.49	22.24	23.5
100	16QAM	1	1	22.84	22.54	22.96	23.5
100	64QAM	1	1	21.32	21.38	21.40	22.0
100	256QAM	1	1	19.05	19.19	19.13	20.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.56	23.63	23.32	24.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.49	23.64	23.34	24.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.55	23.65	23.27	24.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.44	23.53	23.35	24.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.40	23.49	23.35	24.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.44	23.64	23.38	24.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.44	23.60	23.38	24.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.42	23.48	23.42	24.5



TDD FR1 n41_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.60	22.52	22.55	24.5
100	PI/2 BPSK	1	137	22.60	22.69	22.62	
100	PI/2 BPSK	1	271	22.58	22.59	22.56	
100	PI/2 BPSK	135	0	22.06	22.04	22.00	24.0
100	PI/2 BPSK	135	69	22.52	22.58	22.53	24.5
100	PI/2 BPSK	135	138	22.00	22.01	22.05	24.0
100	PI/2 BPSK	270	0	22.03	22.09	22.07	
100	QPSK	1	1	22.54	22.55	22.56	24.5
100	QPSK	1	137	22.53	22.58	22.57	
100	QPSK	1	271	22.52	22.56	22.53	
100	QPSK	135	0	21.69	21.54	21.66	24.5
100	QPSK	135	69	22.08	22.04	22.02	
100	QPSK	135	138	21.70	21.60	21.52	
100	QPSK	270	0	21.65	21.52	21.59	23.5
100	16QAM	1	1	21.84	21.95	21.84	23.5
100	64QAM	1	1	20.60	20.66	20.50	22.0
100	256QAM	1	1	18.13	18.18	18.06	20.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.64	22.54	22.65	24.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.49	22.59	22.50	24.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.59	22.63	22.60	24.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.61	22.48	22.62	24.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.57	22.62	22.58	24.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.59	22.46	22.60	24.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.65	22.48	22.66	24.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.46	22.48	22.47	24.5



TDD FR1 n41_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.03	18.28	18.17	19.0
100	PI/2 BPSK	1	137	17.86	18.27	18.00	
100	PI/2 BPSK	1	271	17.72	18.16	17.86	
100	PI/2 BPSK	135	0	17.88	18.20	18.02	19.0
100	PI/2 BPSK	135	69	17.81	18.14	17.95	19.0
100	PI/2 BPSK	135	138	17.63	18.08	17.77	19.0
100	PI/2 BPSK	270	0	17.76	18.06	17.90	
100	QPSK	1	1	17.68	18.13	17.82	
100	QPSK	1	137	17.85	18.26	17.99	19.0
100	QPSK	1	271	17.76	18.09	17.90	
100	QPSK	135	0	17.74	18.08	17.88	
100	QPSK	135	69	17.85	18.19	17.99	19.0
100	QPSK	135	138	17.79	18.06	17.93	
100	QPSK	270	0	17.60	18.02	17.74	
100	16QAM	1	1	17.74	18.02	17.88	19.0
100	64QAM	1	1	17.79	18.16	17.93	19.0
100	256QAM	1	1	17.24	17.58	17.38	19.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	17.98	18.10	18.05	19.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.01	18.13	18.01	19.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	17.98	18.20	18.09	19.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.01	18.16	18.12	19.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.90	18.24	18.17	19.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.98	18.19	18.00	19.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	17.99	18.17	17.98	19.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	17.93	18.12	18.08	19.0



TDD FR1 n41_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	16.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	15.53	15.96	15.92	16.0
100	PI/2 BPSK	1	137	15.46	15.91	15.85	
100	PI/2 BPSK	1	271	15.29	15.79	15.68	
100	PI/2 BPSK	135	0	15.36	15.88	15.75	16.0
100	PI/2 BPSK	135	69	15.28	15.86	15.67	16.0
100	PI/2 BPSK	135	138	15.21	15.75	15.60	16.0
100	PI/2 BPSK	270	0	15.19	15.72	15.58	
100	QPSK	1	1	15.32	15.75	15.71	16.0
100	QPSK	1	137	15.32	15.77	15.71	
100	QPSK	1	271	15.24	15.80	15.63	
100	QPSK	135	0	15.15	15.74	15.54	16.0
100	QPSK	135	69	15.34	15.83	15.73	
100	QPSK	135	138	15.31	15.79	15.70	
100	QPSK	270	0	15.23	15.73	15.62	16.0
100	16QAM	1	1	15.18	15.62	15.57	16.0
100	64QAM	1	1	15.28	15.91	15.67	16.0
100	256QAM	1	1	15.14	15.72	15.53	16.0
Channel				508200	518598	528996	16.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	15.48	15.84	15.77	16.0
Channel				507204	518598	529998	16.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	15.41	15.79	15.78	16.0
Channel				506202	518598	531000	16.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	15.38	15.81	15.91	16.0
Channel				505200	518598	531996	16.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	15.53	15.88	15.82	16.0
Channel				504204	518598	532998	16.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	15.51	15.89	15.89	16.0
Channel				503202	518598	534000	16.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	15.52	15.79	15.78	16.0
Channel				502200	518598	534996	16.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	15.46	15.92	15.91	16.0
Channel				501204	518598	535998	16.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	15.33	15.84	15.82	16.0



TDD FR1 n41_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.14	19.33	19.57	20.5
100	PI/2 BPSK	1	137	19.12	19.32	19.51	
100	PI/2 BPSK	1	271	19.00	19.31	19.36	
100	PI/2 BPSK	135	0	19.13	19.40	19.45	20.5
100	PI/2 BPSK	135	69	19.11	19.32	19.36	20.5
100	PI/2 BPSK	135	138	19.08	19.32	19.33	20.5
100	PI/2 BPSK	270	0	19.06	19.34	19.35	
100	QPSK	1	1	19.10	19.29	19.31	
100	QPSK	1	137	18.99	19.47	19.50	20.5
100	QPSK	1	271	18.97	19.33	19.36	
100	QPSK	135	0	18.91	19.31	19.29	
100	QPSK	135	69	19.01	19.29	19.21	20.5
100	QPSK	135	138	18.89	19.24	19.30	
100	QPSK	270	0	18.84	19.24	19.27	
100	16QAM	1	1	18.83	19.18	19.11	20.5
100	64QAM	1	1	18.80	19.43	19.36	20.5
100	256QAM	1	1	18.82	18.23	18.35	20.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.05	19.23	19.16	20.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.09	19.11	19.15	20.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.11	19.19	19.20	20.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.02	19.11	19.19	20.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.99	19.09	19.11	20.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.15	19.16	19.21	20.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.06	19.17	19.24	20.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.10	19.11	19.23	20.5



TDD FR1 n77_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.23	21.10	21.15	22.0
100	PI/2 BPSK	1	137	21.25	21.21	21.08	
100	PI/2 BPSK	1	271	21.03	21.00	21.02	
100	PI/2 BPSK	135	0	20.70	20.64	20.47	21.5
100	PI/2 BPSK	135	69	21.20	21.16	21.06	22.0
100	PI/2 BPSK	135	138	20.63	20.60	20.55	21.5
100	PI/2 BPSK	270	0	20.64	20.55	20.50	
100	QPSK	1	1	21.00	21.16	21.03	
100	QPSK	1	137	21.02	20.18	21.10	22.0
100	QPSK	1	271	21.06	21.20	21.11	
100	QPSK	135	0	20.15	20.10	20.15	
100	QPSK	135	69	20.65	20.70	20.60	22.0
100	QPSK	135	138	20.15	20.20	20.22	
100	QPSK	270	0	20.10	20.16	20.17	
100	16QAM	1	1	20.37	20.32	20.32	21.0
100	64QAM	1	1	18.92	18.83	18.71	19.5
100	256QAM	1	1	16.81	16.57	16.55	17.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.22	21.20	21.15	22.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.13	21.06	21.06	22.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.17	21.01	21.10	22.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.18	21.18	21.11	22.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.13	21.02	21.06	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.11	21.07	21.04	22.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.09	21.07	21.02	22.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.13	21.20	21.06	22.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.16	21.09	21.09	22.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.16	21.07	21.09	22.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		22.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.47		21.5
100	PI/2 BPSK	1	137		20.53		
100	PI/2 BPSK	1	271		20.40		
100	PI/2 BPSK	135	0		19.99		22.0
100	PI/2 BPSK	135	69		20.38		
100	PI/2 BPSK	135	138		19.78		21.5
100	PI/2 BPSK	270	0		19.87		
100	QPSK	1	1		20.37		22.0
100	QPSK	1	137		20.49		
100	QPSK	1	271		20.17		
100	QPSK	135	0		19.46		22.0
100	QPSK	135	69		20.35		
100	QPSK	135	138		19.34		21.0
100	QPSK	270	0		19.40		
100	16QAM	1	1		19.83		21.0
100	64QAM	1	1		18.30		19.5
100	256QAM	1	1		16.11		17.5
Channel				633000	633332	633666	22.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.45	20.50	20.40	22.0
Channel				632668	633332	634000	22.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.26	20.43	20.33	22.0
Channel				632334	633332	634332	22.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.33	20.35	20.37	22.0
Channel				632000	633332	634666	22.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.27	20.45	20.23	22.0
Channel				631668	633332	635000	22.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.45	20.31	20.34	22.0
Channel				631334	633332	635332	22.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.34	20.31	20.38	22.0
Channel				631000	633332	635666	22.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.39	20.34	20.34	22.0
Channel				630668	633332	636000	22.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.43	20.49	20.22	22.0
Channel				630500	633332	636166	22.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.36	20.45	20.33	22.0
Channel				630334	633332	636332	22.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.43	20.37	20.24	22.0



TDD FR1 n77_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.04	23.18	23.15	24.5
100	PI/2 BPSK	1	137	23.04	23.36	23.17	
100	PI/2 BPSK	1	271	22.91	23.23	23.05	
100	PI/2 BPSK	135	0	22.49	22.74	22.65	24.0
100	PI/2 BPSK	135	69	22.88	23.22	23.13	24.5
100	PI/2 BPSK	135	138	22.37	22.67	22.51	24.0
100	PI/2 BPSK	270	0	22.38	22.78	22.66	
100	QPSK	1	1	22.77	23.30	23.27	24.5
100	QPSK	1	137	22.66	23.35	23.18	
100	QPSK	1	271	22.68	23.25	22.86	
100	QPSK	135	0	21.75	22.24	22.18	24.5
100	QPSK	135	69	22.61	23.29	23.15	
100	QPSK	135	138	21.73	22.23	21.98	
100	QPSK	270	0	21.72	22.19	22.06	23.5
100	16QAM	1	1	21.71	22.10	22.11	23.5
100	64QAM	1	1	20.54	20.88	20.90	22.0
100	256QAM	1	1	18.51	18.78	18.76	20.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.02	22.98	23.14	24.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.92	22.99	23.14	24.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.96	23.17	22.98	24.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.87	23.01	23.00	24.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.85	23.17	22.99	24.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.96	23.05	23.00	24.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.90	23.12	22.96	24.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.87	23.12	23.12	24.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.91	22.99	22.99	24.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.88	23.03	23.01	24.5



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.61		24.5
100	PI/2 BPSK	1	137		23.67		
100	PI/2 BPSK	1	271		23.47		
100	PI/2 BPSK	135	0		23.09		24.0
100	PI/2 BPSK	135	69		23.49		24.5
100	PI/2 BPSK	135	138		22.97		24.0
100	PI/2 BPSK	270	0		22.93		
100	QPSK	1	1		23.34		24.5
100	QPSK	1	137		23.53		
100	QPSK	1	271		23.47		
100	QPSK	135	0		22.61		24.5
100	QPSK	135	69		23.00		
100	QPSK	135	138		22.46		
100	QPSK	270	0		22.45		23.5
100	16QAM	1	1		22.43		23.5
100	64QAM	1	1		21.37		22.0
100	256QAM	1	1		19.13		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.44	23.57	23.50	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.50	23.44	23.42	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.48	23.52	23.47	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.52	23.55	23.60	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.57	23.54	23.53	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.54	23.56	23.45	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.43	23.49	23.52	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.54	23.60	23.53	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.41	23.51	23.52	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.56	23.49	23.57	24.5



TDD FR1 n77_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1		18.43		19.0
100	PI/2 BPSK	1	137		18.08		
100	PI/2 BPSK	1	271		17.79		
100	PI/2 BPSK	135	0		18.31		19.0
100	PI/2 BPSK	135	69		18.05		19.0
100	PI/2 BPSK	135	138		18.12		19.0
100	PI/2 BPSK	270	0		18.18		
100	QPSK	1	1		18.19		19.0
100	QPSK	1	137		18.08		
100	QPSK	1	271		18.14		
100	QPSK	135	0		18.07		19.0
100	QPSK	135	69		18.03		
100	QPSK	135	138		18.06		
100	QPSK	270	0		18.33		19.0
100	16QAM	1	1		18.08		19.0
100	64QAM	1	1		17.86		19.0
100	256QAM	1	1		18.04		19.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.33	18.39	18.23	19.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.20	18.26	18.09	19.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.17	18.39	18.07	19.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.27	18.23	18.07	19.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.29	18.39	18.07	19.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.18	18.35	18.22	19.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.20	18.30	18.20	19.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.26	18.29	18.03	19.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.28	18.22	18.05	19.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.20	18.35	18.11	19.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		19.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.64		19.0
100	PI/2 BPSK	1	137		18.36		
100	PI/2 BPSK	1	271		18.32		
100	PI/2 BPSK	135	0		18.50		19.0
100	PI/2 BPSK	135	69		18.37		19.0
100	PI/2 BPSK	135	138		18.24		19.0
100	PI/2 BPSK	270	0		18.31		
100	QPSK	1	1		18.43		19.0
100	QPSK	1	137		18.42		
100	QPSK	1	271		18.31		
100	QPSK	135	0		18.35		19.0
100	QPSK	135	69		18.34		
100	QPSK	135	138		18.20		
100	QPSK	270	0		18.23		19.0
100	16QAM	1	1		18.53		19.0
100	64QAM	1	1		18.56		19.0
100	256QAM	1	1		18.43		19.0
Channel				633000	633332	633666	19.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.46	18.58	18.53	19.0
Channel				632668	633332	634000	19.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.26	18.43	18.47	19.0
Channel				632334	633332	634332	19.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.37	18.55	18.46	19.0
Channel				632000	633332	634666	19.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.43	18.40	18.36	19.0
Channel				631668	633332	635000	19.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.45	18.40	18.39	19.0
Channel				631334	633332	635332	19.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.35	18.40	18.33	19.0
Channel				631000	633332	635666	19.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.45	18.38	18.45	19.0
Channel				630668	633332	636000	19.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.34	18.47	18.42	19.0
Channel				630500	633332	636166	19.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.31	18.40	18.52	19.0
Channel				630334	633332	636332	19.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.36	18.52	18.36	19.0



TDD FR1 n77_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	16.10	16.96	16.24	17.0
100	PI/2 BPSK	1	137	15.50	16.49	15.64	
100	PI/2 BPSK	1	271	15.45	16.48	15.59	
100	PI/2 BPSK	135	0	15.98	16.91	16.12	17.0
100	PI/2 BPSK	135	69	15.40	16.41	15.54	17.0
100	PI/2 BPSK	135	138	15.49	16.40	15.63	17.0
100	PI/2 BPSK	270	0	15.51	16.40	15.65	
100	QPSK	1	1	15.35	16.41	15.49	17.0
100	QPSK	1	137	15.55	16.45	15.69	
100	QPSK	1	271	15.50	16.36	15.64	
100	QPSK	135	0	15.29	16.30	15.43	17.0
100	QPSK	135	69	15.25	16.28	15.39	
100	QPSK	135	138	15.36	16.30	15.50	
100	QPSK	270	0	15.31	16.28	15.45	17.0
100	16QAM	1	1	15.41	16.30	15.55	17.0
100	64QAM	1	1	15.34	16.33	15.48	17.0
100	256QAM	1	1	15.29	16.23	15.43	17.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.91	16.86	16.16	17.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.94	16.88	16.07	17.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.07	16.76	16.04	17.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.10	16.77	16.24	17.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.95	16.87	16.14	17.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.99	16.77	16.16	17.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.04	16.76	16.12	17.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.07	16.84	16.15	17.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.95	16.76	16.04	17.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.02	16.78	16.18	17.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633334		17.0
Frequency (MHz)					3500.01		
100	PI/2 BPSK	1	1		16.98		17.0
100	PI/2 BPSK	1	137		16.74		
100	PI/2 BPSK	1	271		16.76		
100	PI/2 BPSK	135	0		16.91		17.0
100	PI/2 BPSK	135	69		16.73		17.0
100	PI/2 BPSK	135	138		16.71		17.0
100	PI/2 BPSK	270	0		16.73		
100	QPSK	1	1		16.86		17.0
100	QPSK	1	137		16.76		
100	QPSK	1	271		16.80		
100	QPSK	135	0		16.78		17.0
100	QPSK	135	69		16.76		
100	QPSK	135	138		16.63		
100	QPSK	270	0		16.62		17.0
100	16QAM	1	1		16.89		17.0
100	64QAM	1	1		16.88		17.0
100	256QAM	1	1		16.89		17.0
Channel				633000	633332	633666	17.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.88	16.97	16.91	17.0
Channel				632668	633332	634000	17.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.80	16.82	16.75	17.0
Channel				632334	633332	634332	17.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.74	16.78	16.81	17.0
Channel				632000	633332	634666	17.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.72	16.78	16.82	17.0
Channel				631668	633332	635000	17.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.81	16.97	16.72	17.0
Channel				631334	633332	635332	17.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.38	17.44	17.41	17.0
Channel				631000	633332	635666	17.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.88	16.94	16.91	17.0
Channel				630668	633332	636000	17.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.79	16.91	16.75	17.0
Channel				630500	633332	636166	17.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.88	16.96	16.89	17.0
Channel				630334	633332	636332	17.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.85	16.95	16.73	17.0



TDD FR1 n77_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.15	17.41	17.29	17.5
100	PI/2 BPSK	1	137	16.81	17.13	16.95	
100	PI/2 BPSK	1	271	16.63	17.05	16.77	
100	PI/2 BPSK	135	0	16.66	17.02	16.80	17.5
100	PI/2 BPSK	135	69	16.54	16.98	16.68	17.5
100	PI/2 BPSK	135	138	16.50	16.92	16.64	17.5
100	PI/2 BPSK	270	0	16.55	16.84	16.69	
100	QPSK	1	1	16.94	17.35	17.08	17.5
100	QPSK	1	137	16.71	17.13	16.85	
100	QPSK	1	271	16.65	17.05	16.79	
100	QPSK	135	0	16.60	16.92	16.74	17.5
100	QPSK	135	69	16.65	16.94	16.79	
100	QPSK	135	138	16.45	16.90	16.59	17.5
100	QPSK	270	0	16.55	16.87	16.69	
100	16QAM	1	1	16.56	16.83	16.70	17.5
100	64QAM	1	1	16.65	17.04	16.79	17.5
100	256QAM	1	1	16.57	16.99	16.71	17.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.95	17.27	17.20	17.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.01	17.38	17.17	17.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.97	17.32	17.19	17.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.08	17.28	17.22	17.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.02	17.40	17.18	17.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.07	17.34	17.18	17.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.00	17.28	17.18	17.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.03	17.29	17.18	17.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.14	17.21	17.25	17.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.96	17.29	17.24	17.5



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633334		17.5
Frequency (MHz)					3500.01		
100	PI/2 BPSK	1	1		17.40		17.5
100	PI/2 BPSK	1	137		16.89		
100	PI/2 BPSK	1	271		16.80		
100	PI/2 BPSK	135	0		16.89		17.5
100	PI/2 BPSK	135	69		16.87		17.5
100	PI/2 BPSK	135	138		16.76		17.5
100	PI/2 BPSK	270	0		16.79		
100	QPSK	1	1		16.93		17.5
100	QPSK	1	137		16.82		
100	QPSK	1	271		16.77		
100	QPSK	135	0		16.81		17.5
100	QPSK	135	69		16.81		
100	QPSK	135	138		16.78		
100	QPSK	270	0		16.68		17.5
100	16QAM	1	1		16.44		17.5
100	64QAM	1	1		16.41		17.5
100	256QAM	1	1		16.41		17.5
Channel				633000	633332	633666	17.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.37	17.25	17.35	17.5
Channel				632668	633332	634000	17.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.23	17.37	17.30	17.5
Channel				632334	633332	634332	17.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.35	17.32	17.38	17.5
Channel				632000	633332	634666	17.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.30	17.24	17.31	17.5
Channel				631668	633332	635000	17.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.27	17.35	17.33	17.5
Channel				631334	633332	635332	17.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.21	17.31	17.34	17.5
Channel				631000	633332	635666	17.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.33	17.31	17.37	17.5
Channel				630668	633332	636000	17.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.30	17.34	17.28	17.5
Channel				630500	633332	636166	17.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.33	17.25	17.30	17.5
Channel				630334	633332	636332	17.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.35	17.25	17.34	17.5



TDD FR1 n77_Ant 5_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.94	23.46	23.23	24.5
100	PI/2 BPSK	1	137	22.85	23.53	23.51	
100	PI/2 BPSK	1	271	22.96	23.40	23.49	
100	PI/2 BPSK	135	0	22.37	22.97	22.83	24.0
100	PI/2 BPSK	135	69	22.92	23.36	23.28	24.5
100	PI/2 BPSK	135	138	22.34	22.79	22.93	24.0
100	PI/2 BPSK	270	0	22.29	22.88	22.75	
100	QPSK	1	1	22.96	23.46	23.15	
100	QPSK	1	137	22.94	23.47	23.48	24.5
100	QPSK	1	271	22.81	23.41	23.49	
100	QPSK	135	0	22.15	22.42	22.28	
100	QPSK	135	69	22.86	23.00	23.02	24.5
100	QPSK	135	138	22.10	22.36	22.37	
100	QPSK	270	0	21.76	22.38	22.27	
100	16QAM	1	1	22.25	22.65	22.44	23.5
100	64QAM	1	1	20.67	21.08	20.82	22.0
100	256QAM	1	1	18.44	18.98	18.63	20.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.89	23.39	23.21	24.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.85	23.33	23.19	24.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.91	23.42	23.21	24.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.89	23.28	23.03	24.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.76	23.34	23.04	24.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.84	23.35	23.22	24.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.82	23.45	23.08	24.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.93	23.33	23.14	24.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.78	23.31	23.14	24.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.82	23.29	23.21	24.5



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		24.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.47		24.5
100	PI/2 BPSK	1	137		23.51		
100	PI/2 BPSK	1	271		23.36		
100	PI/2 BPSK	135	0		22.98		24.0
100	PI/2 BPSK	135	69		23.41		24.5
100	PI/2 BPSK	135	138		22.80		24.0
100	PI/2 BPSK	270	0		22.98		
100	QPSK	1	1		23.47		24.5
100	QPSK	1	137		23.49		
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		24.5
100	QPSK	135	69		23.04		
100	QPSK	135	138		22.45		
100	QPSK	270	0		22.41		23.5
100	16QAM	1	1		22.77		23.5
100	64QAM	1	1		21.23		22.0
100	256QAM	1	1		19.02		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.33	23.42	23.37	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.28	23.32	23.44	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.30	23.41	23.43	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.44	23.38	23.39	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.40	23.36	23.45	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.43	23.37	23.32	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.38	23.27	23.46	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.42	23.35	23.33	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.30	23.39	23.27	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.42	23.41	23.46	24.5



TDD FR1 n77_Ant 5_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	19.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.79	18.93	18.73	19.0
100	PI/2 BPSK	1	137	18.67	18.88	18.61	
100	PI/2 BPSK	1	271	18.61	18.83	18.55	
100	PI/2 BPSK	135	0	18.40	18.68	18.34	19.0
100	PI/2 BPSK	135	69	18.44	18.68	18.38	19.0
100	PI/2 BPSK	135	138	18.45	18.60	18.39	19.0
100	PI/2 BPSK	270	0	18.37	18.62	18.31	
100	QPSK	1	1	18.29	18.49	18.23	
100	QPSK	1	137	18.49	18.70	18.43	19.0
100	QPSK	1	271	18.48	18.71	18.42	
100	QPSK	135	0	18.32	18.55	18.26	
100	QPSK	135	69	18.24	18.57	18.18	19.0
100	QPSK	135	138	18.35	18.61	18.29	
100	QPSK	270	0	18.36	18.53	18.30	
100	16QAM	1	1	18.37	18.63	18.31	19.0
100	64QAM	1	1	18.37	18.59	18.31	19.0
100	256QAM	1	1	18.39	18.61	18.33	19.0
Channel				649668	656000	662332	19.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.67	18.85	18.59	19.0
Channel				649334	656000	662666	19.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.65	18.74	18.71	19.0
Channel				649000	656000	663000	19.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.73	18.86	18.71	19.0
Channel				648668	656000	663332	19.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.63	18.83	18.69	19.0
Channel				648334	656000	663666	19.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.76	18.87	18.61	19.0
Channel				648000	656000	664000	19.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.63	18.89	18.70	19.0
Channel				647668	656000	664332	19.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.65	18.85	18.59	19.0
Channel				647334	656000	664666	19.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.70	18.91	18.59	19.0
Channel				647168	656000	664832	19.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.72	18.74	18.65	19.0
Channel				647000	656000	665000	19.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.77	18.87	18.66	19.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		19.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.59		19.0
100	PI/2 BPSK	1	137		18.44		
100	PI/2 BPSK	1	271		18.39		
100	PI/2 BPSK	135	0		18.56		19.0
100	PI/2 BPSK	135	69		18.53		19.0
100	PI/2 BPSK	135	138		18.44		19.0
100	PI/2 BPSK	270	0		18.47		
100	QPSK	1	1		18.50		19.0
100	QPSK	1	137		18.54		
100	QPSK	1	271		18.51		
100	QPSK	135	0		18.55		19.0
100	QPSK	135	69		18.43		
100	QPSK	135	138		18.38		
100	QPSK	270	0		18.45		19.0
100	16QAM	1	1		18.51		19.0
100	64QAM	1	1		18.54		19.0
100	256QAM	1	1		18.52		19.0
Channel				633000	633332	633666	19.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.43	18.54	18.46	19.0
Channel				632668	633332	634000	19.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.40	18.53	18.43	19.0
Channel				632334	633332	634332	19.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.38	18.36	18.29	19.0
Channel				632000	633332	634666	19.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.29	18.41	18.37	19.0
Channel				631668	633332	635000	19.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.33	18.41	18.33	19.0
Channel				631334	633332	635332	19.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.30	18.34	18.33	19.0
Channel				631000	633332	635666	19.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.33	18.40	18.35	19.0
Channel				630668	633332	636000	19.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.25	18.34	18.42	19.0
Channel				630500	633332	636166	19.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.33	18.39	18.27	19.0
Channel				630334	633332	636332	19.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.25	18.39	18.46	19.0



TDD FR1 n77_Ant 5_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	11.65	12.35	12.07	13.0
100	PI/2 BPSK	1	137	11.38	12.25	11.80	
100	PI/2 BPSK	1	271	11.45	12.20	11.87	
100	PI/2 BPSK	135	0	11.30	12.34	11.72	13.0
100	PI/2 BPSK	135	69	11.28	12.02	11.70	13.0
100	PI/2 BPSK	135	138	11.21	12.00	11.63	13.0
100	PI/2 BPSK	270	0	11.13	12.00	11.55	
100	QPSK	1	1	11.31	12.08	11.73	13.0
100	QPSK	1	137	11.38	12.18	11.80	
100	QPSK	1	271	11.39	12.10	11.81	
100	QPSK	135	0	11.19	12.02	11.61	13.0
100	QPSK	135	69	11.20	12.05	11.62	
100	QPSK	135	138	11.33	12.08	11.75	
100	QPSK	270	0	11.26	12.03	11.68	13.0
100	16QAM	1	1	11.48	12.30	11.90	13.0
100	64QAM	1	1	11.51	12.22	11.93	13.0
100	256QAM	1	1	11.20	12.08	11.62	13.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	11.57	12.18	12.07	13.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	11.57	12.19	11.94	13.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	11.47	12.25	11.94	13.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	11.58	12.20	11.90	13.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	11.64	12.29	11.93	13.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	11.60	12.30	11.97	13.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	11.60	12.31	11.97	13.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	11.52	12.27	11.92	13.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	11.52	12.27	11.91	13.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	11.45	12.26	11.95	13.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633334		13.0
Frequency (MHz)					3500.01		
100	PI/2 BPSK	1	1		12.59		13.0
100	PI/2 BPSK	1	137		12.10		
100	PI/2 BPSK	1	271		12.08		
100	PI/2 BPSK	135	0		12.58		13.0
100	PI/2 BPSK	135	69		12.05		13.0
100	PI/2 BPSK	135	138		12.04		13.0
100	PI/2 BPSK	270	0		12.03		
100	QPSK	1	1		12.20		13.0
100	QPSK	1	137		12.08		
100	QPSK	1	271		12.05		
100	QPSK	135	0		12.03		13.0
100	QPSK	135	69		12.00		
100	QPSK	135	138		12.00		
100	QPSK	270	0		11.96		13.0
100	16QAM	1	1		12.15		13.0
100	64QAM	1	1		12.40		13.0
100	256QAM	1	1		12.20		13.0
Channel				633000	633332	633666	13.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.34	12.42	12.40	13.0
Channel				632668	633332	634000	13.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.20	12.36	12.34	13.0
Channel				632334	633332	634332	13.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.27	12.25	12.26	13.0
Channel				632000	633332	634666	13.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.15	12.37	12.28	13.0
Channel				631668	633332	635000	13.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.30	12.24	12.26	13.0
Channel				631334	633332	635332	13.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.25	12.31	12.39	13.0
Channel				631000	633332	635666	13.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.14	12.39	12.39	13.0
Channel				630668	633332	636000	13.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.22	12.27	12.30	13.0
Channel				630500	633332	636166	13.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	12.15	12.39	12.22	13.0
Channel				630334	633332	636332	13.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	12.24	12.23	12.36	13.0



TDD FR1 n77_Ant 5_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.73	17.79	17.72	18.0
100	PI/2 BPSK	1	137	17.54	17.62	17.55	
100	PI/2 BPSK	1	271	17.57	17.67	17.58	
100	PI/2 BPSK	135	0	17.61	17.69	17.62	18.0
100	PI/2 BPSK	135	69	17.41	17.61	17.42	18.0
100	PI/2 BPSK	135	138	17.55	17.68	17.56	18.0
100	PI/2 BPSK	270	0	17.47	17.61	17.48	
100	QPSK	1	1	17.36	17.54	17.37	18.0
100	QPSK	1	137	17.54	17.73	17.55	
100	QPSK	1	271	17.61	17.66	17.62	
100	QPSK	135	0	17.41	17.59	17.42	18.0
100	QPSK	135	69	17.37	17.62	17.38	
100	QPSK	135	138	17.43	17.59	17.44	
100	QPSK	270	0	17.23	17.43	17.24	18.0
100	16QAM	1	1	17.28	17.39	17.29	18.0
100	64QAM	1	1	17.45	17.63	17.46	18.0
100	256QAM	1	1	15.95	16.10	15.96	17.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.72	17.60	17.53	18.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.65	17.64	17.53	18.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.59	17.78	17.55	18.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.60	17.60	17.62	18.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.70	17.69	17.57	18.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.69	17.67	17.56	18.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.72	17.70	17.56	18.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.62	17.67	17.69	18.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.64	17.59	17.57	18.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.67	17.64	17.56	18.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633334		18.0
Frequency (MHz)					3500.01		
100	PI/2 BPSK	1	1		18.00		18.0
100	PI/2 BPSK	1	137		17.85		
100	PI/2 BPSK	1	271		17.78		
100	PI/2 BPSK	135	0		17.76		18.0
100	PI/2 BPSK	135	69		17.74		18.0
100	PI/2 BPSK	135	138		17.72		18.0
100	PI/2 BPSK	270	0		17.71		
100	QPSK	1	1		17.89		18.0
100	QPSK	1	137		17.86		
100	QPSK	1	271		17.79		
100	QPSK	135	0		17.71		18.0
100	QPSK	135	69		17.63		
100	QPSK	135	138		17.69		
100	QPSK	270	0		17.59		18.0
100	16QAM	1	1		17.39		18.0
100	64QAM	1	1		17.96		18.0
100	256QAM	1	1		16.27		17.5
Channel				633000	633332	633666	18.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.90	17.66	17.69	18.0
Channel				632668	633332	634000	18.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.95	17.66	17.64	18.0
Channel				632334	633332	634332	18.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.82	17.78	17.65	18.0
Channel				632000	633332	634666	18.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.94	17.77	17.57	18.0
Channel				631668	633332	635000	18.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.81	17.74	17.54	18.0
Channel				631334	633332	635332	18.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.93	17.79	17.63	18.0
Channel				631000	633332	635666	18.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.82	17.63	17.64	18.0
Channel				630668	633332	636000	18.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.81	17.66	17.52	18.0
Channel				630500	633332	636166	18.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.93	17.75	17.67	18.0
Channel				630334	633332	636332	18.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.93	17.66	17.59	18.0



TDD FR1 n77_Ant 6_State 0/1/2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.50	20.00	20.01	22.0
100	PI/2 BPSK	1	137	20.54	20.15	20.10	
100	PI/2 BPSK	1	271	20.06	20.06	20.11	
100	PI/2 BPSK	135	0	19.55	19.60	19.52	21.5
100	PI/2 BPSK	135	69	20.25	20.04	20.00	22.0
100	PI/2 BPSK	135	138	19.70	19.55	19.52	21.5
100	PI/2 BPSK	270	0	19.67	19.52	19.50	
100	QPSK	1	1	20.16	20.02	20.06	22.0
100	QPSK	1	137	20.22	20.01	20.10	
100	QPSK	1	271	20.13	20.00	20.12	
100	QPSK	135	0	19.15	19.15	19.22	22.0
100	QPSK	135	69	19.70	19.55	19.50	
100	QPSK	135	138	19.23	19.00	19.06	
100	QPSK	270	0	19.30	19.02	19.10	21.0
100	16QAM	1	1	19.32	19.05	19.01	21.0
100	64QAM	1	1	17.88	17.69	17.66	19.5
100	256QAM	1	1	16.20	15.82	15.78	17.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.45	20.16	20.17	22.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.30	20.13	20.01	22.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.34	20.04	20.01	22.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.39	20.05	20.11	22.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.35	20.08	20.11	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.28	20.08	20.08	22.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.26	20.12	20.11	22.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.27	20.03	20.16	22.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.33	20.16	20.02	22.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.34	20.03	20.03	22.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		22.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.08		22.0
100	PI/2 BPSK	1	137		21.20		
100	PI/2 BPSK	1	271		21.06		
100	PI/2 BPSK	135	0		20.54		21.5
100	PI/2 BPSK	135	69		21.08		22.0
100	PI/2 BPSK	135	138		20.53		21.5
100	PI/2 BPSK	270	0		20.52		
100	QPSK	1	1		21.06		
100	QPSK	1	137		21.09		22.0
100	QPSK	1	271		21.02		
100	QPSK	135	0		20.25		
100	QPSK	135	69		20.79		22.0
100	QPSK	135	138		20.33		
100	QPSK	270	0		20.03		
100	16QAM	1	1		20.34		21.0
100	64QAM	1	1		18.69		19.5
100	256QAM	1	1		16.60		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.15	21.05	21.07	22.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.01	21.03	21.19	22.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.03	21.10	21.17	22.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.11	21.14	21.02	22.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.12	21.04	21.01	22.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.08	21.17	21.06	22.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.17	21.03	21.01	22.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.12	21.08	21.05	22.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.13	21.15	21.01	22.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.12	21.03	21.13	22.0



TDD FR1 n77_Ant 6_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.28	14.22	14.20	16.0
100	PI/2 BPSK	1	137	14.15	14.02	14.00	
100	PI/2 BPSK	1	271	14.33	14.09	14.18	
100	PI/2 BPSK	135	0	14.25	14.10	14.10	16.0
100	PI/2 BPSK	135	69	14.22	14.01	14.07	16.0
100	PI/2 BPSK	135	138	13.56	13.38	13.41	16.0
100	PI/2 BPSK	270	0	13.64	13.42	13.49	
100	QPSK	1	1	14.09	13.85	13.94	15.0
100	QPSK	1	137	13.93	13.73	13.78	
100	QPSK	1	271	13.71	13.51	13.56	
100	QPSK	135	0	13.78	13.60	13.63	15.0
100	QPSK	135	69	13.65	13.51	13.50	
100	QPSK	135	138	13.55	13.48	13.40	
100	QPSK	270	0	13.72	13.50	13.57	15.0
100	16QAM	1	1	13.98	13.80	13.83	15.0
100	64QAM	1	1	14.21	14.00	14.06	15.0
100	256QAM	1	1	12.60	12.44	12.45	14.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.20	14.03	14.01	16.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.21	14.02	14.02	16.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.23	14.12	14.03	16.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.13	14.06	14.00	16.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.09	14.22	14.04	16.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.09	14.22	14.19	16.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.14	14.21	14.04	16.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.17	14.16	14.11	16.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.19	14.06	14.10	16.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.21	14.11	14.18	16.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		16.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		15.17		16.0	0.0
100	PI/2 BPSK	1	137		14.63			
100	PI/2 BPSK	1	271		14.50			
100	PI/2 BPSK	135	0		14.87		15.5	0.5
100	PI/2 BPSK	135	69		14.60		16.0	0.0
100	PI/2 BPSK	135	138		14.40		15.5	0.5
100	PI/2 BPSK	270	0		14.69			
100	QPSK	1	1		15.20		16.0	0.0
100	QPSK	1	137		14.62			
100	QPSK	1	271		14.50			
100	QPSK	135	0		14.90		16.0	0.0
100	QPSK	135	69		14.67			
100	QPSK	135	138		14.47			
100	QPSK	270	0		14.72		15.0	1.0
100	16QAM	1	1		15.50		15.0	1.0
100	64QAM	1	1		15.42		13.5	2.5
100	256QAM	1	1		13.80		14.0	2.0
Channel				633000	633332	633666	16.0	0.0
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	14.97	14.13	14.20	16.0	0.0
Channel				632668	633332	634000	16.0	0.0
Frequency (MHz)				3490.02	3499.98	3510		
80	PI/2 BPSK	1	1	15.15	14.16	14.13	16.0	0.0
Channel				632334	633332	634332	16.0	0.0
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	15.02	14.12	14.02	16.0	0.0
Channel				632000	633332	634666	16.0	0.0
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	15.01	14.21	14.01	16.0	0.0
Channel				631668	633332	635000	16.0	0.0
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	15.00	14.03	14.03	16.0	0.0
Channel				631334	633332	635332	16.0	0.0
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	15.03	14.03	14.08	16.0	0.0
Channel				631000	633332	635666	16.0	0.0
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	15.00	14.02	14.16	16.0	0.0
Channel				630668	633332	636000	16.0	0.0
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	15.10	14.11	14.03	16.0	0.0
Channel				630500	633332	636166	16.0	0.0
Frequency (MHz)				3457.5	3499.98	3542.49		
15	PI/2 BPSK	1	1	15.07	14.10	14.02	16.0	0.0
Channel				630334	633332	636332	16.0	0.0
Frequency (MHz)				3455.01	3499.98	3544.98		
10	PI/2 BPSK	1	1	14.99	14.02	14.14	16.0	0.0



TDD FR1 n78_Ant 2_State 0/1/2/3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.15		22.0
100	PI/2 BPSK	1	137		21.19		
100	PI/2 BPSK	1	271		21.12		
100	PI/2 BPSK	135	0		20.60		21.5
100	PI/2 BPSK	135	69		21.14		22.0
100	PI/2 BPSK	135	138		20.65		21.5
100	PI/2 BPSK	270	0		20.57		
100	QPSK	1	1		21.10		22.0
100	QPSK	1	137		21.18		
100	QPSK	1	271		21.03		
100	QPSK	135	0		20.33		22.0
100	QPSK	135	69		21.02		
100	QPSK	135	138		20.40		
100	QPSK	270	0		20.22		21.0
100	16QAM	1	1		20.26		21.0
100	64QAM	1	1		18.66		19.5
100	256QAM	1	1		16.70		17.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.15	21.02	21.14	22.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.06	21.07	21.07	22.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.06	21.12	21.16	22.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.04	21.10	21.03	22.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.08	21.09	21.04	22.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.05	21.03	21.04	22.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.08	21.18	21.14	22.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.10	21.05	21.09	22.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.10	21.16	21.04	22.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.05	21.16	21.11	22.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		22.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.00		22.0
100	PI/2 BPSK	1	137		21.15		
100	PI/2 BPSK	1	271		21.02		
100	PI/2 BPSK	135	0		20.55		21.5
100	PI/2 BPSK	135	69		21.07		22.0
100	PI/2 BPSK	135	138		20.56		21.5
100	PI/2 BPSK	270	0		20.60		
100	QPSK	1	1		21.00		
100	QPSK	1	137		21.06		22.0
100	QPSK	1	271		21.10		
100	QPSK	135	0		20.22		
100	QPSK	135	69		20.86		22.0
100	QPSK	135	138		20.20		
100	QPSK	270	0		20.06		
100	16QAM	1	1		20.17		21.0
100	64QAM	1	1		18.61		19.5
100	256QAM	1	1		16.90		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.13	21.14	21.11	22.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.06	21.08	21.10	22.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.07	21.05	21.06	22.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.01	21.09	21.03	22.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.04	21.14	21.11	22.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.04	21.11	21.00	22.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.00	21.00	21.02	22.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.11	21.06	21.03	22.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.03	21.13	21.10	22.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.13	21.04	21.09	22.0



TDD FR1 n78_Ant 4_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.01		24.5
100	PI/2 BPSK	1	137		23.02		
100	PI/2 BPSK	1	271		22.96		
100	PI/2 BPSK	135	0		22.53		24.0
100	PI/2 BPSK	135	69		22.87		24.5
100	PI/2 BPSK	135	138		22.28		24.0
100	PI/2 BPSK	270	0		22.42		
100	QPSK	1	1		23.00		
100	QPSK	1	137		22.77		24.5
100	QPSK	1	271		22.65		
100	QPSK	135	0		21.92		
100	QPSK	135	69		22.28		24.5
100	QPSK	135	138		21.90		
100	QPSK	270	0		21.77		
100	16QAM	1	1		21.90		23.5
100	64QAM	1	1		20.65		22.0
100	256QAM	1	1		18.54		20.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.88	22.91	22.97	24.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.99	22.96	22.97	24.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.81	23.00	22.87	24.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.00	22.81	22.89	24.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.85	22.82	22.91	24.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.97	22.97	22.95	24.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.90	22.86	22.93	24.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.00	22.99	22.89	24.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.95	22.82	22.91	24.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.84	22.98	22.86	24.5



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		24.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.60		24.5
100	PI/2 BPSK	1	137		23.66		
100	PI/2 BPSK	1	271		23.42		
100	PI/2 BPSK	135	0		23.08		24.0
100	PI/2 BPSK	135	69		23.55		24.5
100	PI/2 BPSK	135	138		22.99		24.0
100	PI/2 BPSK	270	0		23.01		
100	QPSK	1	1		23.48		24.5
100	QPSK	1	137		23.56		
100	QPSK	1	271		23.51		
100	QPSK	135	0		22.60		24.5
100	QPSK	135	69		22.99		
100	QPSK	135	138		22.50		
100	QPSK	270	0		22.52		23.5
100	16QAM	1	1		22.46		23.5
100	64QAM	1	1		21.38		22.0
100	256QAM	1	1		19.25		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.55	23.44	23.56	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.41	23.55	23.55	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.44	23.49	23.52	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.42	23.53	23.49	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.42	23.56	23.47	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.45	23.40	23.59	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.55	23.46	23.58	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.49	23.45	23.47	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.53	23.55	23.43	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.48	23.50	23.49	24.5



TDD FR1 n78_Ant 4_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.48		19.0
100	PI/2 BPSK	1	137		18.27		
100	PI/2 BPSK	1	271		18.11		
100	PI/2 BPSK	135	0		18.32		19.0
100	PI/2 BPSK	135	69		18.21		19.0
100	PI/2 BPSK	135	138		18.01		19.0
100	PI/2 BPSK	270	0		18.11		
100	QPSK	1	1		18.31		
100	QPSK	1	137		18.23		19.0
100	QPSK	1	271		18.03		
100	QPSK	135	0		18.25		
100	QPSK	135	69		18.18		19.0
100	QPSK	135	138		17.97		
100	QPSK	270	0		18.02		
100	16QAM	1	1		18.28		19.0
100	64QAM	1	1		17.95		19.0
100	256QAM	1	1		17.88		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.38	18.43	18.30	19.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.32	18.26	18.18	19.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.24	18.43	18.26	19.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.20	18.28	18.26	19.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.32	18.28	18.27	19.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.26	18.23	18.13	19.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.34	18.36	18.29	19.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.18	18.23	18.19	19.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.34	18.30	18.10	19.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.21	18.27	18.29	19.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.98		19.0
100	PI/2 BPSK	1	137		18.77		
100	PI/2 BPSK	1	271		18.72		
100	PI/2 BPSK	135	0		18.83		19.0
100	PI/2 BPSK	135	69		18.77		19.0
100	PI/2 BPSK	135	138		18.72		19.0
100	PI/2 BPSK	270	0		18.67		
100	QPSK	1	1		18.83		
100	QPSK	1	137		18.81		19.0
100	QPSK	1	271		18.70		
100	QPSK	135	0		18.82		
100	QPSK	135	69		18.74		19.0
100	QPSK	135	138		18.67		
100	QPSK	270	0		18.60		
100	16QAM	1	1		18.79		19.0
100	64QAM	1	1		18.12		19.0
100	256QAM	1	1		18.11		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.82	18.92	18.81	19.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.64	18.84	18.63	19.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.82	18.80	18.64	19.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.65	18.90	18.80	19.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.70	18.88	18.73	19.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.64	18.80	18.73	19.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.81	18.72	18.62	19.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.64	18.81	18.64	19.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.63	18.85	18.61	19.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.73	18.90	18.63	19.0



TDD FR1 n78_Ant 4_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		13.41		14.0
100	PI/2 BPSK	1	137		13.17		
100	PI/2 BPSK	1	271		13.08		
100	PI/2 BPSK	135	0		13.14		14.0
100	PI/2 BPSK	135	69		13.08		14.0
100	PI/2 BPSK	135	138		13.05		14.0
100	PI/2 BPSK	270	0		13.04		
100	QPSK	1	1		13.19		14.0
100	QPSK	1	137		13.17		
100	QPSK	1	271		13.09		
100	QPSK	135	0		13.13		14.0
100	QPSK	135	69		13.07		
100	QPSK	135	138		13.03		
100	QPSK	270	0		13.03		14.0
100	16QAM	1	1		13.37		14.0
100	64QAM	1	1		13.31		14.0
100	256QAM	1	1		13.17		14.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	13.31	13.36	13.30	14.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	13.11	13.35	13.17	14.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	13.16	13.22	13.25	14.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	13.11	13.23	13.11	14.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	13.27	13.18	13.19	14.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	13.27	13.31	13.13	14.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	13.28	13.36	13.11	14.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	13.11	13.34	13.11	14.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	13.17	13.26	13.29	14.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	13.21	13.30	13.10	14.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		14.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.98		14.0
100	PI/2 BPSK	1	137		13.74		
100	PI/2 BPSK	1	271		13.61		
100	PI/2 BPSK	135	0		13.71		14.0
100	PI/2 BPSK	135	69		13.68		14.0
100	PI/2 BPSK	135	138		13.55		14.0
100	PI/2 BPSK	270	0		13.65		
100	QPSK	1	1		13.74		
100	QPSK	1	137		13.77		14.0
100	QPSK	1	271		13.61		
100	QPSK	135	0		13.63		
100	QPSK	135	69		13.63		14.0
100	QPSK	135	138		13.55		
100	QPSK	270	0		13.65		
100	16QAM	1	1		13.84		14.0
100	64QAM	1	1		13.96		14.0
100	256QAM	1	1		13.72		14.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.80	13.94	13.91	14.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.67	13.76	13.79	14.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.64	13.83	13.81	14.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.73	13.74	13.75	14.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.79	13.77	13.82	14.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.65	13.90	13.90	14.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.76	13.94	13.85	14.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.74	13.80	13.74	14.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.69	13.88	13.75	14.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.75	13.90	13.83	14.0



TDD FR1 n78_Ant 4_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.48		19.5
100	PI/2 BPSK	1	137		18.68		
100	PI/2 BPSK	1	271		18.45		
100	PI/2 BPSK	135	0		18.60		19.5
100	PI/2 BPSK	135	69		18.57		19.5
100	PI/2 BPSK	135	138		18.48		19.5
100	PI/2 BPSK	270	0		18.42		
100	QPSK	1	1		18.65		19.5
100	QPSK	1	137		18.61		
100	QPSK	1	271		19.38		
100	QPSK	135	0		18.57		19.5
100	QPSK	135	69		18.45		
100	QPSK	135	138		18.39		
100	QPSK	270	0		18.38		19.5
100	16QAM	1	1		18.81		19.5
100	64QAM	1	1		18.75		19.5
100	256QAM	1	1		18.14		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.39	19.45	19.44	19.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.23	19.33	19.43	19.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.37	19.44	19.44	19.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.31	19.41	19.32	19.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.19	19.34	19.38	19.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.19	19.28	19.37	19.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.31	19.38	19.34	19.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.39	19.27	19.27	19.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.29	19.38	19.35	19.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.34	19.32	19.31	19.5



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		19.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.46		19.5
100	PI/2 BPSK	1	137		19.30		
100	PI/2 BPSK	1	271		19.23		
100	PI/2 BPSK	135	0		19.27		19.5
100	PI/2 BPSK	135	69		19.24		19.5
100	PI/2 BPSK	135	138		19.15		19.5
100	PI/2 BPSK	270	0		19.23		
100	QPSK	1	1		19.41		19.5
100	QPSK	1	137		19.31		
100	QPSK	1	271		19.20		
100	QPSK	135	0		19.25		19.5
100	QPSK	135	69		19.15		
100	QPSK	135	138		19.11		
100	QPSK	270	0		19.08		19.5
100	16QAM	1	1		18.36		19.5
100	64QAM	1	1		19.43		19.5
100	256QAM	1	1		18.76		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.29	19.44	19.28	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.22	19.43	19.17	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.28	19.42	19.12	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.09	19.42	19.12	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.10	19.26	19.23	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.23	19.26	19.17	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.14	19.37	19.15	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.12	19.26	19.16	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.13	19.29	19.19	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.10	19.40	19.14	24.5



TDD FR1 n78_Ant 5_State 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.95		24.5
100	PI/2 BPSK	1	137		23.00		
100	PI/2 BPSK	1	271		22.92		
100	PI/2 BPSK	135	0		22.44		24.0
100	PI/2 BPSK	135	69		22.89		24.5
100	PI/2 BPSK	135	138		22.37		24.0
100	PI/2 BPSK	270	0		22.39		
100	QPSK	1	1		22.98		24.5
100	QPSK	1	137		22.94		
100	QPSK	1	271		22.72		
100	QPSK	135	0		21.95		24.5
100	QPSK	135	69		22.40		
100	QPSK	135	138		21.95		
100	QPSK	270	0		21.88		23.5
100	16QAM	1	1		22.22		23.5
100	64QAM	1	1		20.66		22.0
100	256QAM	1	1		18.49		20.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.75	22.87	22.87	24.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.86	22.87	22.90	24.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.75	22.93	22.79	24.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.88	22.79	22.75	24.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.94	22.76	22.86	24.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.93	22.83	22.76	24.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.81	22.90	22.87	24.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.93	22.89	22.86	24.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.81	22.94	22.79	24.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.90	22.77	22.92	24.5



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		24.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.46		24.5
100	PI/2 BPSK	1	137		23.48		
100	PI/2 BPSK	1	271		23.40		
100	PI/2 BPSK	135	0		22.97		24.0
100	PI/2 BPSK	135	69		23.40		24.5
100	PI/2 BPSK	135	138		22.83		24.0
100	PI/2 BPSK	270	0		22.91		
100	QPSK	1	1		23.45		
100	QPSK	1	137		23.43		24.5
100	QPSK	1	271		23.42		
100	QPSK	135	0		22.55		
100	QPSK	135	69		23.02		24.5
100	QPSK	135	138		22.60		
100	QPSK	270	0		22.48		
100	16QAM	1	1		22.80		23.5
100	64QAM	1	1		21.19		22.0
100	256QAM	1	1		19.08		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.33	23.35	23.44	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.41	23.41	23.38	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.36	23.41	23.33	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.41	23.30	23.33	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.26	23.29	23.37	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.26	23.32	23.39	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.43	23.28	23.27	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.35	23.29	23.43	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.44	23.42	23.31	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.39	23.42	23.38	24.5



TDD FR1 n78_Ant 5_State 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.58		19.0
100	PI/2 BPSK	1	137		18.31		
100	PI/2 BPSK	1	271		18.27		
100	PI/2 BPSK	135	0		18.13		19.0
100	PI/2 BPSK	135	69		18.20		19.0
100	PI/2 BPSK	135	138		18.19		19.0
100	PI/2 BPSK	270	0		18.24		
100	QPSK	1	1		18.35		19.0
100	QPSK	1	137		18.26		
100	QPSK	1	271		18.21		
100	QPSK	135	0		18.17		19.0
100	QPSK	135	69		18.23		
100	QPSK	135	138		18.17		
100	QPSK	270	0		18.18		19.0
100	16QAM	1	1		18.37		19.0
100	64QAM	1	1		18.52		19.0
100	256QAM	1	1		18.32		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.41	18.56	18.51	19.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.26	18.54	18.32	19.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.32	18.44	18.47	19.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.41	18.50	18.41	19.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.37	18.49	18.45	19.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.39	18.44	18.41	19.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.22	18.53	18.45	19.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.39	18.39	18.47	19.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.33	18.39	18.46	19.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.29	18.37	18.40	19.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		19.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.66		19.0
100	PI/2 BPSK	1	137		18.39		
100	PI/2 BPSK	1	271		18.38		
100	PI/2 BPSK	135	0		18.48		19.0
100	PI/2 BPSK	135	69		18.38		19.0
100	PI/2 BPSK	135	138		18.26		19.0
100	PI/2 BPSK	270	0		18.41		
100	QPSK	1	1		18.46		
100	QPSK	1	137		18.40		19.0
100	QPSK	1	271		18.36		
100	QPSK	135	0		18.41		
100	QPSK	135	69		18.37		19.0
100	QPSK	135	138		18.31		
100	QPSK	270	0		18.36		
100	16QAM	1	1		18.41		19.0
100	64QAM	1	1		18.53		19.0
100	256QAM	1	1		18.44		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.49	18.64	18.59	19.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.29	18.62	18.43	19.0



TDD FR1 n78_Ant 5_State 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		13.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		12.32		13.0
100	PI/2 BPSK	1	137		12.20		
100	PI/2 BPSK	1	271		12.19		
100	PI/2 BPSK	135	0		12.16		13.0
100	PI/2 BPSK	135	69		12.12		13.0
100	PI/2 BPSK	135	138		12.04		13.0
100	PI/2 BPSK	270	0		12.11		
100	QPSK	1	1		12.20		
100	QPSK	1	137		12.26		13.0
100	QPSK	1	271		12.12		
100	QPSK	135	0		12.05		
100	QPSK	135	69		12.10		13.0
100	QPSK	135	138		12.00		
100	QPSK	270	0		12.05		
100	16QAM	1	1		12.02		13.0
100	64QAM	1	1		12.15		13.0
100	256QAM	1	1		12.23		13.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	12.27	12.31	12.13	13.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	12.08	12.23	12.01	13.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	12.18	12.24	11.93	13.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	12.09	12.24	12.07	13.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	12.17	12.14	11.95	13.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	12.21	12.28	12.08	13.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	12.26	12.22	11.97	13.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	12.19	12.28	12.11	13.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	12.26	12.29	11.96	13.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	12.24	12.15	12.09	13.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		13.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.65		13.0
100	PI/2 BPSK	1	137		12.13		
100	PI/2 BPSK	1	271		12.05		
100	PI/2 BPSK	135	0		12.14		13.0
100	PI/2 BPSK	135	69		12.03		13.0
100	PI/2 BPSK	135	138		11.95		13.0
100	PI/2 BPSK	270	0		12.03		
100	QPSK	1	1		12.25		
100	QPSK	1	137		12.13		13.0
100	QPSK	1	271		11.95		
100	QPSK	135	0		12.09		
100	QPSK	135	69		12.05		13.0
100	QPSK	135	138		11.95		
100	QPSK	270	0		12.00		
100	16QAM	1	1		12.40		13.0
100	64QAM	1	1		12.32		13.0
100	256QAM	1	1		12.20		13.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.49	12.52	12.47	13.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.29	12.37	12.28	13.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.44	12.46	12.29	13.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.43	12.51	12.47	13.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.33	12.43	12.44	13.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.44	12.50	12.39	13.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.30	12.41	12.32	13.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.31	12.47	12.41	13.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	12.31	12.35	12.29	13.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	12.39	12.43	12.34	13.0



TDD FR1 n78_Ant 5_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.95		19.5
100	PI/2 BPSK	1	137		18.87		
100	PI/2 BPSK	1	271		18.80		
100	PI/2 BPSK	135	0		18.77		19.5
100	PI/2 BPSK	135	69		18.72		19.5
100	PI/2 BPSK	135	138		18.71		19.5
100	PI/2 BPSK	270	0		18.69		
100	QPSK	1	1		18.88		19.5
100	QPSK	1	137		18.79		
100	QPSK	1	271		18.78		
100	QPSK	135	0		18.76		19.5
100	QPSK	135	69		18.73		
100	QPSK	135	138		18.61		
100	QPSK	270	0		18.65		19.5
100	16QAM	1	1		18.64		19.5
100	64QAM	1	1		18.94		19.5
100	256QAM	1	1		18.27		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.81	18.91	18.85	19.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.75	18.83	18.79	19.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.63	18.89	18.67	19.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.80	18.76	18.76	19.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.73	18.79	18.81	19.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.81	18.79	18.77	19.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.64	18.75	18.77	19.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.70	18.83	18.70	19.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.78	18.73	18.67	19.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.70	18.88	18.71	19.5



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		19.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.29		19.5
100	PI/2 BPSK	1	137		19.10		
100	PI/2 BPSK	1	271		18.97		
100	PI/2 BPSK	135	0		19.08		19.5
100	PI/2 BPSK	135	69		19.01		19.5
100	PI/2 BPSK	135	138		18.99		19.5
100	PI/2 BPSK	270	0		18.93		
100	QPSK	1	1		19.08		19.5
100	QPSK	1	137		19.06		
100	QPSK	1	271		18.98		
100	QPSK	135	0		18.97		19.5
100	QPSK	135	69		19.03		
100	QPSK	135	138		18.96		
100	QPSK	270	0		18.98		19.5
100	16QAM	1	1		19.14		19.5
100	64QAM	1	1		19.27		19.5
100	256QAM	1	1		18.51		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.24	19.25	19.19	19.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.17	19.14	19.11	19.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.19	19.10	19.15	19.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.18	19.18	19.15	19.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.10	19.13	19.19	19.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.19	19.08	19.12	19.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.21	19.14	19.14	19.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.04	19.06	19.05	19.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.12	19.21	19.15	19.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.19	19.24	19.16	19.5



TDD FR1 n78_Ant 6_State 0/1/2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.17		22.0
100	PI/2 BPSK	1	137		20.28		
100	PI/2 BPSK	1	271		20.06		
100	PI/2 BPSK	135	0		19.63		21.5
100	PI/2 BPSK	135	69		20.10		22.0
100	PI/2 BPSK	135	138		19.55		21.5
100	PI/2 BPSK	270	0		19.60		
100	QPSK	1	1		20.19		22.0
100	QPSK	1	137		20.08		
100	QPSK	1	271		20.12		
100	QPSK	135	0		19.20		22.0
100	QPSK	135	69		19.86		
100	QPSK	135	138		19.15		
100	QPSK	270	0		19.20		21.0
100	16QAM	1	1		19.55		21.0
100	64QAM	1	1		17.99		19.5
100	256QAM	1	1		15.79		17.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.26	20.22	20.20	22.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.08	20.22	20.15	22.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.14	20.19	20.09	22.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.07	20.18	20.01	22.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.26	20.22	20.15	22.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.21	20.05	20.12	22.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.20	20.15	20.06	22.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.25	20.19	20.05	22.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.25	20.09	20.11	22.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.07	20.19	20.11	22.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.21		22.0
100	PI/2 BPSK	1	137		20.34		
100	PI/2 BPSK	1	271		20.11		
100	PI/2 BPSK	135	0		19.75		21.5
100	PI/2 BPSK	135	69		20.27		22.0
100	PI/2 BPSK	135	138		19.75		21.5
100	PI/2 BPSK	270	0		19.82		
100	QPSK	1	1		20.22		22.0
100	QPSK	1	137		20.09		
100	QPSK	1	271		20.15		
100	QPSK	135	0		19.30		22.0
100	QPSK	135	69		19.88		
100	QPSK	135	138		19.26		
100	QPSK	270	0		19.30		21.0
100	16QAM	1	1		19.51		21.0
100	64QAM	1	1		17.95		19.5
100	256QAM	1	1		15.75		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.11	20.25	20.16	22.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.07	20.13	20.15	22.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.00	20.12	20.15	22.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.07	20.24	20.04	22.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.16	20.24	20.03	22.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.15	20.24	20.10	22.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.10	20.13	20.07	22.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.09	20.14	20.08	22.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.11	20.24	20.08	22.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.12	20.19	20.10	22.0



TDD FR1 n78_Ant 6_State 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.56		19.0	0.0
100	PI/2 BPSK	1	137		17.09			
100	PI/2 BPSK	1	271		17.01			
100	PI/2 BPSK	135	0		16.91		18.5	0.5
100	PI/2 BPSK	135	69		16.67		19.0	0.0
100	PI/2 BPSK	135	138		16.40		18.5	0.5
100	PI/2 BPSK	270	0		16.60			
100	QPSK	1	1		17.25		19.0	0.0
100	QPSK	1	137		17.02			
100	QPSK	1	271		17.05			
100	QPSK	135	0		17.00		19.0	0.0
100	QPSK	135	69		16.70			
100	QPSK	135	138		17.03			
100	QPSK	270	0		16.70		18.0	1.0
100	16QAM	1	1		17.35		18.0	1.0
100	64QAM	1	1		17.35		16.5	2.5
100	256QAM	1	1		15.60		16.0	3.0
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98		
90	PI/2 BPSK	1	1	17.39	17.42	17.37	19.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3759.99		
80	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3769.98		
60	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
50	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750.00	3784.98		
30	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3789.99		
20	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.48		
15	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	PI/2 BPSK	1	1	17.29	17.30	17.32	19.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633332		19.0	0.0
Frequency (MHz)					3499.98			
100	PI/2 BPSK	1	1		18.00		18.5	0.5
100	PI/2 BPSK	1	137		17.50			
100	PI/2 BPSK	1	271		17.34			
100	PI/2 BPSK	135	0		17.68		19.0	0.0
100	PI/2 BPSK	135	69		17.46			
100	PI/2 BPSK	135	138		17.30			
100	PI/2 BPSK	270	0		17.52		18.5	0.5
100	QPSK	1	1		18.01			
100	QPSK	1	137		17.56			
100	QPSK	1	271		17.27		19.0	0.0
100	QPSK	135	0		17.77			
100	QPSK	135	69		17.53			
100	QPSK	135	138		17.30		18.0	1.0
100	QPSK	270	0		17.51			
100	16QAM	1	1		18.30			
100	64QAM	1	1		18.31		16.5	2.5
100	256QAM	1	1		16.56		16.0	4.5
Channel				633000	633332	633666	19.0	0.0
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	17.84	17.96	17.88	19.0	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3490.02	3499.98	3510	19.0	0.0
80	PI/2 BPSK	1	1	17.79	17.80	17.71		
Channel				632334	633332	634332	19.0	0.0
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	17.70	17.89	17.72	19.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99	19.0	0.0
60	PI/2 BPSK	1	1	17.72	17.76	17.74		
Channel				631668	633332	635000	19.0	0.0
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	17.82	17.96	17.71	19.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98	22.0	0.0
40	PI/2 BPSK	1	1	17.73	17.84	17.72		
Channel				631000	633332	635666	19.0	0.0
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	17.70	17.84	17.84	19.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540	19.0	0.0
20	PI/2 BPSK	1	1	17.81	17.84	17.85		
Channel				630500	633332	636166	19.0	0.0
Frequency (MHz)				3457.5	3499.98	3542.49		
15	PI/2 BPSK	1	1	17.73	17.79	17.76	19.0	0.0
Channel				630334	633332	636332		
Frequency (MHz)				3455.01	3499.98	3544.98	19.0	0.0
10	PI/2 BPSK	1	1	17.73	17.79	17.76		



WLAN 2.4GHz Power State 0

2.4GHz WLAN				Ant 7			Ant 8		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	20.51	21.00	98.20	20.37	21.00
		6	2437	20.22	21.00	20.12		21.00	
		11	2462	20.42	21.00	20.23		21.00	
802.11g 6Mbps		1	2412	Not Required	21.00	Not Required	Not Required	21.00	Not Required
		6	2437		21.00			21.00	
		11	2462		21.00			21.00	
802.11n-HT20 MCS0		1	2412		21.00			21.00	
		6	2437		21.00			21.00	
		11	2462		19.00			19.00	
802.11n-HT40 MCS0		3	2422		21.00			21.00	
		6	2437		21.00			21.00	
		9	2452		19.00			19.00	
802.11ac-VHT20 MCS0		1	2412		21.00			21.00	
		6	2437		21.00			21.00	
		11	2462		19.00			19.00	
802.11ac-VHT40 MCS0		3	2422		21.00			21.00	
		6	2437		21.00			21.00	
		9	2452		19.00			19.00	
802.11ax-HE20 MCS0		1	2412	21.00	21.00				
		6	2437	21.00	21.00				
		11	2462	19.00	19.00				
802.11ax-HE40 MCS0		3	2422	21.00	21.00				
		6	2437	21.00	21.00				
		9	2452	19.00	19.00				



2.4GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	20.90	21.00	20.40	21.00	23.67	24.00	98.20
		6	2437	21.00	21.00	20.20	21.00	23.63	24.00	
		11	2462	20.90	21.00	20.10	21.00	23.53	24.00	
	802.11g 6Mbps	1	2412	Not Required	21.00	Not Required	21.00	Not Required	24.00	Not Required
		6	2437		21.00		24.00			
		11	2462		21.00		24.00			
	802.11n-HT20 MCS0	1	2412		21.00		21.00		24.00	
		6	2437		21.00		21.00		24.00	
		11	2462		19.00		19.00		22.00	
802.11n-HT40 MCS0	3	2422	21.00		21.00		24.00			
	6	2437	21.00		21.00		24.00			
	9	2452	19.00		19.00		22.00			
802.11ac-VHT20 MCS0	1	2412	21.00		21.00		24.00			
	6	2437	21.00	21.00	24.00					
	11	2462	19.00	19.00	22.00					
802.11ac-VHT40 MCS0	3	2422	21.00	21.00	24.00					
	6	2437	21.00	21.00	24.00					
	9	2452	19.00	19.00	22.00					
802.11ax-HE20 MCS0	1	2412	21.00	21.00	24.00					
	6	2437	21.00	21.00	24.00					
	11	2462	19.00	19.00	22.00					
802.11ax-HE40 MCS0	3	2422	21.00	21.00	24.00					
	6	2437	21.00	21.00	24.00					
	9	2452	19.00	19.00	22.00					



WLAN 2.4GHz Power State 1

2.4GHz WLAN				Ant 7			Ant 8		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	16.38	16.50	98.20	16.16	16.50
6			2437	16.09	16.50	16.02		16.50	
11			2462	16.15	16.50	16.02		16.50	
802.11g 6Mbps		1	2412	Not Required	16.50	Not Required	Not Required	16.50	Not Required
		6	2437		16.50			16.50	
		11	2462		16.50			16.50	
802.11n-HT20 MCS0		1	2412		16.50			16.50	
		6	2437		16.50			16.50	
		11	2462		16.50			16.50	
802.11n-HT40 MCS0		3	2422		16.50			16.50	
		6	2437		16.50			16.50	
		9	2452		16.50			16.50	
802.11ac-VHT20 MCS0		1	2412		16.50			16.50	
		6	2437		16.50			16.50	
		11	2462		16.50			16.50	
802.11ac-VHT40 MCS0		3	2422		16.50			16.50	
		6	2437		16.50			16.50	
		9	2452		16.50			16.50	
802.11ax-HE20 MCS0		1	2412	16.50	16.50				
		6	2437	16.50	16.50				
		11	2462	16.50	16.50				
802.11ax-HE40 MCS0		3	2422	16.50	16.50				
		6	2437	16.50	16.50				
		9	2452	16.50	16.50				



2.4GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	16.43	16.50	15.68	16.50	19.08	19.50	98.20
		6	2437	16.12	16.50	15.54	16.50	18.85	19.50	
		11	2462	16.15	16.50	15.51	16.50	18.85	19.50	
	802.11g 6Mbps	1	2412	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		6	2437		16.50		19.50			
		11	2462		16.50		19.50			
	802.11n-HT20 MCS0	1	2412		16.50		16.50		19.50	
		6	2437		16.50		16.50		19.50	
		11	2462		16.50		16.50		19.50	
	802.11n-HT40 MCS0	3	2422		16.50		16.50		19.50	
		6	2437		16.50		16.50		19.50	
		9	2452		16.50		16.50		19.50	
802.11ac-VHT20 MCS0	1	2412	16.50		16.50		19.50			
	6	2437	16.50		16.50		19.50			
	11	2462	16.50		16.50		19.50			
802.11ac-VHT40 MCS0	3	2422	16.50		16.50		19.50			
	6	2437	16.50	16.50	19.50					
	9	2452	16.50	16.50	19.50					
802.11ax-HE20 MCS0	1	2412	16.50	16.50	19.50					
	6	2437	16.50	16.50	19.50					
	11	2462	16.50	16.50	19.50					
802.11ax-HE40 MCS0	3	2422	16.50	16.50	19.50					
	6	2437	16.50	16.50	19.50					
	9	2452	16.50	16.50	19.50					



WLAN 2.4GHz Power State 2

2.4GHz WLAN				Ant 7			Ant 8		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	14.37	15.00	98.20	14.28	15.00	98.20	
	6	2437	14.11	15.00		14.12	15.00		
	11	2462	14.07	15.00		14.23	15.00		
802.11g 6Mbps	1	2412	Not Required	15.00	Not Required	Not Required	15.00	Not Required	
	6	2437		15.00			15.00		
	11	2462		15.00			15.00		
802.11n-HT20 MCS0	1	2412		15.00			15.00		
	6	2437		15.00			15.00		
	11	2462		15.00			15.00		
802.11n-HT40 MCS0	3	2422		15.00			15.00		
	6	2437		15.00			15.00		
	9	2452		15.00			15.00		
802.11ac-VHT20 MCS0	1	2412		15.00			15.00		
	6	2437		15.00			15.00		
	11	2462		15.00			15.00		
802.11ac-VHT40 MCS0	3	2422		15.00			15.00		
	6	2437		15.00			15.00		
	9	2452		15.00			15.00		
802.11ax-HE20 MCS0	1	2412	15.00	15.00					
	6	2437	15.00	15.00					
	11	2462	15.00	15.00					
802.11ax-HE40 MCS0	3	2422	15.00	15.00					
	6	2437	15.00	15.00					
	9	2452	15.00	15.00					
	10	2457	15.00	15.00					
	11	2462	15.00	15.00					



2.4GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8			
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11b 1Mbps	1	2412	14.89	15.00	14.30	15.00	17.62	18.00	98.20	
		6	2437	14.71	15.00	14.12	15.00	17.44	18.00		
		11	2462	14.73	15.00	14.26	15.00	17.51	18.00		
	802.11g 6Mbps	1	2412	Not Required	15.00	Not Required	15.00	Not Required	15.00	Not Required	Not Required
		6	2437		15.00		15.00				
		11	2462		15.00		15.00				
	802.11n-HT20 MCS0	1	2412		15.00		15.00				
		6	2437		15.00		15.00				
		11	2462		15.00		15.00				
	802.11n-HT40 MCS0	3	2422		15.00		15.00				
6		2437	15.00		15.00						
9		2452	15.00		15.00						
802.11ac-VHT20 MCS0	1	2412	15.00		15.00						
	6	2437	15.00		15.00						
	11	2462	15.00	15.00							
802.11ac-VHT40 MCS0	3	2422	15.00	15.00							
	6	2437	15.00	15.00							
	9	2452	15.00	15.00							
802.11ax-HE20 MCS0	1	2412	15.00	15.00							
	6	2437	15.00	15.00							
	11	2462	15.00	15.00							
802.11ax-HE40 MCS0	3	2422	15.00	15.00							
	6	2437	15.00	15.00							
	9	2452	15.00	15.00							



WLAN 2.4GHz Power State 3

2.4GHz WLAN				Ant 7			Ant 8				
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
	802.11b 1Mbps		1	2412	20.51	21.00	98.20	20.37	21.00	98.20	
		6	2437	20.22	21.00	20.12		21.00			
		11	2462	20.42	21.00	20.23		21.00			
802.11g 6Mbps		1	2412	Not Required	21.00	Not Required	Not Required	21.00	Not Required		
		6	2437		21.00			21.00			
		11	2462		21.00			21.00			
		12	2467		21.00			21.00			
		13	2472		21.00			21.00			
802.11n-HT20 MCS0		1	2412		21.00			21.00		21.00	21.00
		6	2437		21.00			21.00		21.00	21.00
		11	2462		19.00			19.00		19.00	19.00
802.11n-HT40 MCS0		3	2422		21.00			21.00		21.00	21.00
		6	2437		21.00			21.00		21.00	21.00
		9	2452		19.00			19.00		19.00	19.00
802.11ac-VHT20 MCS0		1	2412		21.00			21.00		21.00	21.00
		6	2437		21.00			21.00		21.00	21.00
		11	2462		19.00			19.00		19.00	19.00
802.11ac-VHT40 MCS0		3	2422		21.00			21.00		21.00	21.00
		6	2437	21.00	21.00	21.00	21.00				
		9	2452	19.00	19.00	19.00	19.00				
802.11ax-HE20 MCS0		1	2412	21.00	21.00	21.00	21.00				
		6	2437	21.00	21.00	21.00	21.00				
		11	2462	19.00	19.00	19.00	19.00				
802.11ax-HE40 MCS0		3	2422	21.00	21.00	21.00	21.00				
		6	2437	21.00	21.00	21.00	21.00				
		9	2452	19.00	19.00	19.00	19.00				



2.4GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	20.90	21.00	20.40	21.00	23.67	24.00	98.20
		6	2437	21.00	21.00	20.20	21.00	23.63	24.00	
		11	2462	20.90	21.00	20.10	21.00	23.53	24.00	
	802.11g 6Mbps	1	2412	Not Required	21.00	Not Required	21.00	Not Required	24.00	Not Required
		6	2437		21.00		24.00			
		11	2462		21.00		24.00			
	802.11n-HT20 MCS0	1	2412		21.00		21.00		24.00	
		6	2437		21.00		21.00		24.00	
		11	2462		19.00		19.00		22.00	
	802.11n-HT40 MCS0	3	2422		21.00		21.00		24.00	
6		2437	21.00		21.00		24.00			
9		2452	19.00		19.00		22.00			
802.11ac-VHT20 MCS0	1	2412	21.00		21.00		24.00			
	6	2437	21.00		21.00		24.00			
	11	2462	19.00	19.00	22.00					
802.11ac-VHT40 MCS0	3	2422	21.00	21.00	24.00					
	6	2437	21.00	21.00	24.00					
	9	2452	19.00	19.00	22.00					
802.11ax-HE20 MCS0	1	2412	21.00	21.00	24.00					
	6	2437	21.00	21.00	24.00					
	11	2462	19.00	19.00	22.00					
802.11ax-HE40 MCS0	3	2422	21.00	21.00	24.00					
	6	2437	21.00	21.00	24.00					
	9	2452	19.00	19.00	22.00					



WLAN 5.2GHz Power State 0

5.2GHz WLAN				Ant 7			Ant 8											
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %									
	5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	20.00	Not Required	Not Required	20.00	Not Required								
40			5200	20.00		20.00												
44			5220	20.00		20.00												
48			5240	20.00		20.00												
802.11n-HT20 MCS0		36	5180	20.00		20.00												
		40	5200	20.00		20.00												
		44	5220	20.00		20.00												
		48	5240	20.00		20.00												
802.11n-HT40 MCS0		38	5190	17.70		18.50			99.60		18.10	18.50	99.60					
		46	5230	19.50		20.00					19.30	20.00						
802.11ac-VHT20 MCS0		36	5180	Not Required		20.00			Not Required		Not Required	20.00	Not Required					
		40	5200			20.00						20.00						
		44	5220			20.00						20.00						
		48	5240			20.00						20.00						
802.11ac-VHT40 MCS0		38	5190			18.50						18.50		99.60	18.50	18.50	99.60	
		46	5230			20.00						20.00			20.00	20.00		
802.11ac-VHT80 MCS0	42	5210	17.50		17.50	Not Required	17.50	17.50		Not Required								
802.11ax-HE20 MCS0	36	5180	20.00		20.00		Not Required	20.00				20.00		Not Required				
	40	5200	20.00		20.00			20.00				20.00						
	44	5220	20.00		20.00			20.00				20.00						
	48	5240	20.00		20.00			20.00				20.00						
802.11ax-HE40 MCS0	38	5190	18.50		18.50			Not Required				18.50			18.50	Not Required		
	46	5230	20.00		20.00							20.00			20.00			
802.11ax-HE80 MCS0	42	5210	17.50		17.50							Not Required			17.50		17.50	Not Required



5.2GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		40	5200		20.00		23.00			
		44	5220		20.00		23.00			
		48	5240		20.00		23.00			
	802.11n-HT20 MCS0	36	5180	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		40	5200		20.00		23.00			
		44	5220		20.00		23.00			
	802.11n-HT40 MCS0	38	5190	17.80	18.50	18.20	18.50	21.01	21.50	99.60
		46	5230	19.60	20.00	19.50	20.00	22.56	23.00	
	802.11ac-VHT20 MCS0	36	5180	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		40	5200		20.00		23.00			
		44	5220		20.00		23.00			
48		5240	20.00		23.00					
802.11ac-VHT40 MCS0	38	5190	Not Required	18.50	Not Required	18.50	Not Required	21.50	Not Required	
	46	5230		20.00		23.00				
802.11ac-VHT80 MCS0	42	5210	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required	
802.11ax-HE20 MCS0	36	5180		20.00		20.00		23.00		
	40	5200		20.00		23.00				
	44	5220		20.00		23.00				
	48	5240		20.00		23.00				
802.11ax-HE40 MCS0	38	5190		18.50		18.50		21.50		
	46	5230		20.00		20.00		23.00		
802.11ax-HE80 MCS0	42	5210		17.50		17.50		20.50		



WLAN 5.2GHz Power State 1

5.2GHz WLAN				Ant 7			Ant 8		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	16.00	Not Required	Not Required	16.00
40			5200						
44			5220						
48			5240						
802.11n-HT20 MCS0		36	5180						
		40	5200						
		44	5220						
		48	5240						
802.11n-HT40 MCS0		38	5190						
		46	5230						
802.11ac-VHT20 MCS0		36	5180						
		40	5200						
		44	5220						
		48	5240						
802.11ac-VHT40 MCS0		38	5190						
		46	5230						
802.11ac-VHT80 MCS0		42	5210						
802.11ax-HE20 MCS0		36	5180						
		40	5200						
		44	5220						
	48	5240							
802.11ax-HE40 MCS0	38	5190							
	46	5230							
802.11ax-HE80 MCS0	42	5210							



5.2GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8					
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
	802.11a 6Mbps	36	5180	Not Required	16.00	Not Required	16.00	16.00	Not Required	19.00	Not Required		
		40	5200									16.00	16.00
		44	5220									16.00	16.00
		48	5240									16.00	16.00
	802.11n-HT20 MCS0	36	5180									16.00	16.00
		40	5200									16.00	16.00
		44	5220									16.00	16.00
	802.11n-HT40 MCS0	38	5190									16.00	16.00
		46	5230									16.00	16.00
	802.11ac-VHT20 MCS0	36	5180									16.00	16.00
		40	5200									16.00	16.00
		44	5220									16.00	16.00
802.11ac-VHT40 MCS0	48	5240	16.00									16.00	
	38	5190	16.00	16.00									
802.11ac-VHT80 MCS0	46	5230	16.00	16.00									
	42	5210	16.00	16.00									
802.11ax-HE20 MCS0	36	5180	16.00	16.00									
	40	5200	16.00	16.00									
	44	5220	16.00	16.00									
	48	5240	16.00	16.00									
802.11ax-HE40 MCS0	38	5190	16.00	16.00									
	46	5230	16.00	16.00									
802.11ax-HE80 MCS0	42	5210	16.00	16.00									



WLAN 5.2GHz Power State 2

5.2GHz WLAN				Ant 7			Ant 8			
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps	36	5180	Not Required	12.50	Not Required	Not Required	12.50	12.50	Not Required
		40	5200					12.50		
		44	5220					12.50		
		48	5240					12.50		
	802.11n-HT20 MCS0	36	5180					12.50		
		40	5200					12.50		
		44	5220					12.50		
		48	5240					12.50		
	802.11n-HT40 MCS0	38	5190					12.50		
		46	5230					12.50		
	802.11ac-VHT20 MCS0	36	5180					12.50		
		40	5200					12.50		
		44	5220					12.50		
802.11ac-VHT40 MCS0	38	5190	12.50							
	46	5230	12.50							
802.11ac-VHT80 MCS0	42	5210	12.50							
802.11ax-HE20 MCS0	36	5180	12.50							
	40	5200	12.50							
	44	5220	12.50							
	48	5240	12.50							
802.11ax-HE40 MCS0	38	5190	12.50							
	46	5230	12.50							
802.11ax-HE80 MCS0	42	5210	12.50							



5.2GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	12.50	Not Required	12.50	Not Required	15.50
40			5200	12.50		15.50				
44			5220	12.50		15.50				
48			5240	12.50		15.50				
802.11n-HT20 MCS0		36	5180	12.50		15.50				
		40	5200	12.50		15.50				
		44	5220	12.50		15.50				
		48	5240	12.50		15.50				
802.11n-HT40 MCS0		38	5190	12.50		15.50				
		46	5230	12.50		15.50				
802.11ac-VHT20 MCS0		36	5180	12.50		15.50				
		40	5200	12.50		15.50				
		44	5220	12.50		15.50				
		48	5240	12.50		15.50				
802.11ac-VHT40 MCS0		38	5190	12.50		15.50				
		46	5230	12.50		15.50				
802.11ac-VHT80 MCS0		42	5210	12.50		15.50				
802.11ax-HE20 MCS0		36	5180	12.50		15.50				
		40	5200	12.50		15.50				
		44	5220	12.50		15.50				
	48	5240	12.50	15.50						
802.11ax-HE40 MCS0	38	5190	12.50	15.50						
	46	5230	12.50	15.50						
802.11ax-HE80 MCS0	42	5210	12.50	15.50						



WLAN 5.2GHz Power State 3

5.2GHz WLAN				Ant 7			Ant 8		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	20.00	Not Required	Not Required	20.00
40			5200	20.00		20.00			
44			5220	20.00		20.00			
48			5240	20.00		20.00			
802.11n-HT20 MCS0		36	5180	Not Required	20.00	Not Required	Not Required	20.00	Not Required
		40	5200		20.00			20.00	
		44	5220		20.00			20.00	
		48	5240		20.00			20.00	
802.11n-HT40 MCS0		38	5190	17.70	18.50	99.60	18.10	18.50	99.60
		46	5230	19.50	20.00		19.30	20.00	
802.11ac-VHT20 MCS0		36	5180	Not Required	20.00	Not Required	Not Required	20.00	Not Required
		40	5200		20.00			20.00	
		44	5220		20.00			20.00	
		48	5240		20.00			20.00	
802.11ac-VHT40 MCS0		38	5190	Not Required	18.50	Not Required	Not Required	18.50	Not Required
		46	5230		20.00			20.00	
802.11ac-VHT80 MCS0		42	5210	Not Required	17.50	Not Required	Not Required	17.50	Not Required
802.11ax-HE20 MCS0		36	5180		20.00			20.00	
		40	5200		20.00			20.00	
		44	5220		20.00			20.00	
802.11ax-HE40 MCS0	38	5190	Not Required	18.50	Not Required	Not Required	18.50	Not Required	
	46	5230		20.00			20.00		
802.11ax-HE80 MCS0	42	5210	Not Required	17.50	Not Required	Not Required	17.50	Not Required	



5.2GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8			
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps	36	5180	Not Required	20.00	Not Required	20.00	23.00	Not Required	23.00	Not Required
		40	5200				20.00				
		44	5220				20.00				
		48	5240				20.00				
	802.11n-HT20 MCS0	36	5180	Not Required	20.00	Not Required	20.00	23.00	Not Required	23.00	Not Required
		40	5200				20.00				
		44	5220				20.00				
		48	5240				20.00				
	802.11n-HT40 MCS0	38	5190	17.80	18.50	18.20	18.50	21.01	21.50	99.60	
		46	5230	19.60	20.00	19.50	20.00	22.56	23.00		
	802.11ac-VHT20 MCS0	36	5180	Not Required	20.00	Not Required	20.00	23.00	Not Required	23.00	Not Required
40		5200	20.00								
44		5220	20.00								
48		5240	20.00								
802.11ac-VHT40 MCS0	38	5190	Not Required	18.50	Not Required	18.50	21.50	Not Required	23.00	Not Required	
	46	5230				20.00					
802.11ac-VHT80 MCS0	42	5210	Not Required	17.50	Not Required	17.50	20.50	Not Required	23.00	Not Required	
802.11ax-HE20 MCS0	36	5180				20.00					
	40	5200				20.00					
	44	5220				20.00					
802.11ax-HE40 MCS0	38	5190	Not Required	18.50	Not Required	18.50	21.50	Not Required	23.00	Not Required	
	46	5230				20.00					
802.11ax-HE80 MCS0	42	5210	Not Required	17.50	Not Required	17.50	20.50	Not Required	23.00	Not Required	



WLAN 5.3GHz Power State 0

5.3GHz WLAN				Ant 7			Ant 8		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	20.00	Not Required	Not Required	20.00
56			5280	20.00					
60			5300	20.00					
64			5320	20.00					
802.11n-HT20 MCS0		52	5260	Not Required	20.00	Not Required	Not Required	20.00	Not Required
		56	5280		20.00				
		60	5300		20.00				
802.11n-HT40 MCS0		54	5270	19.2	20.00	99.6	19.4	20.00	99.6
		62	5310	18.3	18.50			18.50	
802.11ac-VHT20 MCS0		52	5260	Not Required	20.00	Not Required	Not Required	20.00	Not Required
		56	5280		20.00				
		60	5300		20.00				
		64	5320		20.00				
802.11ac-VHT40 MCS0		54	5270	Not Required	20.00	Not Required	Not Required	20.00	Not Required
		62	5310		18.50			18.50	
802.11ac-VHT80 MCS0		58	5290	Not Required	18.50	Not Required	Not Required	18.50	Not Required
802.11ac-VHT160 MCS0		50	5250		17.50			17.50	
802.11ax-HE20 MCS0		52	5260	Not Required	20.00	Not Required	Not Required	20.00	Not Required
		56	5280		20.00				
		60	5300		20.00				
	64	5320	20.00						
802.11ax-HE40 MCS0	54	5270	Not Required	20.00	Not Required	Not Required	20.00	Not Required	
	62	5310		18.50			18.50		
802.11ax-HE80 MCS0	58	5290	Not Required	18.50	Not Required	Not Required	18.50	Not Required	
802.11ax-HE160 MCS0	50	5250		17.50			17.50		



5.3GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	20.00	Not Required	20.00	Not Required	23.00
56			5280	20.00		20.00		23.00		
60			5300	20.00		20.00		23.00		
64			5320	20.00		20.00		23.00		
802.11n-HT20 MCS0		52	5260	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		56	5280		20.00		20.00		23.00	
		60	5300		20.00		20.00		23.00	
		64	5320		20.00		20.00		23.00	
802.11n-HT40 MCS0		54	5270	19.5	20.00	19.5	20.00	22.51	23.00	99.6
		62	5310	18.4	18.50	18.2	18.50	21.31	21.50	
802.11ac-VHT20 MCS0		52	5260	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		56	5280		20.00		20.00		23.00	
		60	5300		20.00		20.00		23.00	
		64	5320		20.00		20.00		23.00	
802.11ac-VHT40 MCS0		54	5270	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		62	5310		18.50		18.50		21.50	
802.11ac-VHT80 MCS0		58	5290	Not Required	18.50	Not Required	18.50	Not Required	21.50	Not Required
802.11ac-VHT160 MCS0		50	5250		17.50		17.50		20.50	
802.11ax-HE20 MCS0		52	5260	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		56	5280		20.00		20.00		23.00	
	60	5300	20.00		20.00		23.00			
	64	5320	20.00		20.00		23.00			
802.11ax-HE40 MCS0	54	5270	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required	
	62	5310		18.50		18.50		21.50		
802.11ax-HE80 MCS0	58	5290	Not Required	18.50	Not Required	18.50	Not Required	21.50	Not Required	
802.11ax-HE160 MCS0	50	5250		17.50		17.50		20.50		



WLAN 5.3GHz Power State 1

5.3GHz WLAN				Ant 7			Ant 8								
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %						
	802.11a 6Mbps	52	5260	Not Required	16.00	Not Required	Not Required	16.00	Not Required	99.2					
		56	5280												
		60	5300												
		64	5320												
	802.11n-HT20 MCS0	52	5260												
		56	5280												
		60	5300												
		64	5320												
	802.11n-HT40 MCS0	54	5270												
		62	5310												
	802.11ac-VHT20 MCS0	52	5260												
		56	5280												
		60	5300												
		64	5320												
	802.11ac-VHT40 MCS0	54	5270												
		62	5310												
	802.11ac-VHT80 MCS0	58	5290												
	802.11ac-VHT160 MCS0	50	5250								16	16.00	99.2	14.69	16.00
802.11ax-HE20 MCS0	52	5260	Not Required								16.00	Not Required	Not Required	16.00	Not Required
	56	5280													
	60	5300													
	64	5320													
802.11ax-HE40 MCS0	54	5270													
	62	5310													
802.11ax-HE80 MCS0	58	5290													
802.11ax-HE160 MCS0	50	5250													



5.3GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	16.00	Not Required	16.00	Not Required	19.00	Not Required			
56			5280	16.00		16.00		19.00						
60			5300	16.00		16.00		19.00						
64			5320	16.00		16.00		19.00						
802.11n-HT20 MCS0		52	5260	16.00		16.00		19.00						
		56	5280	16.00		16.00		19.00						
		60	5300	16.00		16.00		19.00						
		64	5320	16.00		16.00		19.00						
802.11n-HT40 MCS0		54	5270	16.00		16.00		19.00						
		62	5310	16.00		16.00		19.00						
802.11ac-VHT20 MCS0		52	5260	16.00		16.00		19.00						
		56	5280	16.00		16.00		19.00						
		60	5300	16.00		16.00		19.00						
		64	5320	16.00		16.00		19.00						
802.11ac-VHT40 MCS0		54	5270	16.00		16.00		19.00						
		62	5310	16.00		16.00		19.00						
802.11ac-VHT80 MCS0		58	5290	16.00		16.00		19.00						
802.11ac-VHT160 MCS0		50	5250	15.43		16.00		14.45		16.00		17.98	19.00	99.2
802.11ax-HE20 MCS0		52	5260	Not Required		16.00		Not Required		16.00		Not Required	19.00	Not Required
		56	5280			16.00				16.00			19.00	
	60	5300	16.00		16.00	19.00								
	64	5320	16.00		16.00	19.00								
802.11ax-HE40 MCS0	54	5270	16.00		16.00	19.00								
	62	5310	16.00		16.00	19.00								
802.11ax-HE80 MCS0	58	5290	16.00		16.00	19.00								
802.11ax-HE160 MCS0	50	5250	16.00		16.00	19.00								



WLAN 5.3GHz Power State 2

5.3GHz WLAN				Ant 7			Ant 8						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	12.50	Not Required	Not Required	12.50	Not Required			
56			5280	12.50		12.50							
60			5300	12.50		12.50							
64			5320	12.50		12.50							
802.11n-HT20 MCS0		52	5260	12.50		12.50							
		56	5280	12.50		12.50							
		60	5300	12.50		12.50							
		64	5320	12.50		12.50							
802.11n-HT40 MCS0		54	5270	12.50		12.50							
		62	5310	12.50		12.50							
802.11ac-VHT20 MCS0		52	5260	12.50		12.50							
		56	5280	12.50		12.50							
		60	5300	12.50		12.50							
		64	5320	12.50		12.50							
802.11ac-VHT40 MCS0		54	5270	12.50		12.50							
		62	5310	12.50		12.50							
802.11ac-VHT80 MCS0		58	5290	12.50		12.50							
802.11ac-VHT160 MCS0		50	5250	12.5		12.50			99.2		12.50	12.50	99.2
802.11ax-HE20 MCS0		52	5260	Not Required		12.50			Not Required		Not Required	12.50	Not Required
		56	5280			12.50						12.50	
	60	5300	12.50		12.50								
	64	5320	12.50		12.50								
802.11ax-HE40 MCS0	54	5270	12.50		12.50								
	62	5310	12.50		12.50								
802.11ax-HE80 MCS0	58	5290	12.50		12.50								
802.11ax-HE160 MCS0	50	5250	12.50		12.50								



5.3GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required			
56			5280	12.50		15.50								
60			5300	12.50		15.50								
64			5320	12.50		15.50								
802.11n-HT20 MCS0		52	5260	12.50		15.50								
		56	5280	12.50		15.50								
		60	5300	12.50		15.50								
		64	5320	12.50		15.50								
802.11n-HT40 MCS0		54	5270	12.50		15.50								
		62	5310	12.50		15.50								
802.11ac-VHT20 MCS0		52	5260	12.50		15.50								
		56	5280	12.50		15.50								
		60	5300	12.50		15.50								
		64	5320	12.50		15.50								
802.11ac-VHT40 MCS0		54	5270	12.50		15.50								
		62	5310	12.50		15.50								
802.11ac-VHT80 MCS0		58	5290	12.50		15.50								
802.11ac-VHT160 MCS0		50	5250	12.36		12.50		11.90		12.50		15.15	15.50	99.2
802.11ax-HE20 MCS0		52	5260	Not Required		12.50		Not Required		12.50		Not Required	15.50	Not Required
		56	5280			12.50				15.50				
	60	5300	12.50		15.50									
	64	5320	12.50		15.50									
802.11ax-HE40 MCS0	54	5270	12.50		15.50									
	62	5310	12.50		15.50									
802.11ax-HE80 MCS0	58	5290	12.50		15.50									
802.11ax-HE160 MCS0	50	5250	12.50		15.50									



WLAN 5.5GHz Power State 0

5.5GHz WLAN				Ant 7			Ant 8			
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps	100	5500	Not Required	20.00	Not Required	Not Required	20.00	20.00	Not Required
		116	5580					20.00		
		132	5660					20.00		
		140	5700					20.00		
	802.11n-HT20 MCS0	100	5500	Not Required	20.00	Not Required	Not Required	20.00	20.00	Not Required
		116	5580					20.00		
		132	5660					20.00		
		140	5700					20.00		
	802.11n-HT40 MCS0	102	5510	19.10	20.00	99.60	18.00	20.00	99.60	
		110	5550	19.70	20.00		18.00	20.00		
		134	5670	19.50	20.00		18.40	20.00		
	802.11ac-VHT20 MCS0	100	5500	Not Required	20.00	Not Required	Not Required	20.00	20.00	Not Required
116		5580	20.00							
132		5660	20.00							
140		5700	20.00							
802.11ac-VHT40 MCS0	102	5510	Not Required	20.00	Not Required	Not Required	20.00	20.00	Not Required	
	110	5550					20.00			
	134	5670					20.00			
802.11ac-VHT80 MCS0	106	5530	Not Required	19.00	Not Required	Not Required	19.00	Not Required		
802.11ax-HE20 MCS0	100	5500	Not Required	20.00	Not Required	Not Required	20.00	20.00	Not Required	
	116	5580					20.00			
	132	5660					20.00			
	140	5700					20.00			
802.11ax-HE40 MCS0	102	5510	Not Required	20.00	Not Required	Not Required	20.00	20.00	Not Required	
	110	5550					20.00			
	134	5670					20.00			
802.11ax-HE80 MCS0	106	5530	Not Required	20.00	Not Required	Not Required	20.00	Not Required		



5.5GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	20.00	Not Required	20.00	Not Required	23.00
116			5580	20.00		20.00		23.00		
132			5660	20.00		20.00		23.00		
140			5700	20.00		20.00		23.00		
802.11n-HT20 MCS0		100	5500	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		116	5580		20.00		20.00		23.00	
		132	5660		20.00		20.00		23.00	
		140	5700		20.00		20.00		23.00	
802.11n-HT40 MCS0		102	5510	19.30	20.00	18.10	20.00	21.75	23.00	99.60
		110	5550	19.80	20.00	18.30	20.00	22.12	23.00	
		134	5670	19.60	20.00	18.50	20.00	22.10	23.00	
802.11ac-VHT20 MCS0		100	5500	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		116	5580		20.00		20.00		23.00	
		132	5660		20.00		20.00		23.00	
		140	5700		20.00		20.00		23.00	
802.11ac-VHT40 MCS0		102	5510	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required
		110	5550		20.00		20.00		23.00	
		134	5670		20.00		20.00		23.00	
802.11ac-VHT80 MCS0		106	5530	Not Required	19.00	Not Required	19.00	Not Required	22.00	Not Required
802.11ax-HE20 MCS0		100	5500		20.00		20.00		23.00	
	116	5580	20.00		20.00		23.00			
	132	5660	20.00		20.00		23.00			
802.11ax-HE40 MCS0	140	5700	20.00	20.00	23.00					
	102	5510	20.00	20.00	23.00					
	110	5550	20.00	20.00	23.00					
802.11ax-HE80 MCS0	134	5670	20.00	20.00	23.00					
	106	5530	20.00	20.00	23.00					



WLAN 5.5GHz Power State 1

5.5GHz WLAN				Ant 7			Ant 8						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	16.00	Not Required	Not Required	16.00	Not Required			
116			5580	16.00		16.00							
132			5660	16.00		16.00							
140			5700	16.00		16.00							
802.11n-HT20 MCS0		100	5500	16.00		16.00							
		116	5580	16.00		16.00							
		132	5660	16.00		16.00							
		140	5700	16.00		16.00							
802.11n-HT40 MCS0		102	5510	16.00		16.00							
		110	5550	16.00		16.00							
		134	5670	16.00		16.00							
802.11ac-VHT20 MCS0		100	5500	16.00		16.00							
		116	5580	16.00		16.00							
		132	5660	16.00		16.00							
		140	5700	16.00		16.00							
802.11ac-VHT40 MCS0		102	5510	16.00		16.00							
		110	5550	16.00		16.00							
		134	5670	16.00		16.00							
802.11ac-VHT80 MCS0		106	5530	15.86		16.00			99.20		15.52	16.00	99.20
802.11ax-HE20 MCS0		100	5500	Not Required		16.00			Not Required		Not Required	16.00	Not Required
	116	5580	16.00		16.00								
	132	5660	16.00		16.00								
	140	5700	16.00		16.00								
802.11ax-HE40 MCS0	102	5510	16.00		16.00								
	110	5550	16.00		16.00								
	134	5670	16.00		16.00								
802.11ax-HE80 MCS0	106	5530	16.00		16.00		16.00						



5.5GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	16.00	Not Required	16.00	Not Required	19.00	Not Required			
116			5580	16.00		16.00		19.00						
132			5660	16.00		16.00		19.00						
140			5700	16.00		16.00		19.00						
802.11n-HT20 MCS0		100	5500	16.00		16.00		19.00						
		116	5580	16.00		16.00		19.00						
		132	5660	16.00		16.00		19.00						
		140	5700	16.00		16.00		19.00						
802.11n-HT40 MCS0		102	5510	16.00		16.00		19.00						
		110	5550	16.00		16.00		19.00						
		134	5670	16.00		16.00		19.00						
802.11ac-VHT20 MCS0		100	5500	16.00		16.00		19.00						
		116	5580	16.00		16.00		19.00						
		132	5660	16.00		16.00		19.00						
		140	5700	16.00		16.00		19.00						
802.11ac-VHT40 MCS0		102	5510	16.00		16.00		19.00						
		110	5550	16.00		16.00		19.00						
		134	5670	16.00		16.00		19.00						
802.11ac-VHT80 MCS0		106	5530	15.85		16.00		14.00		16.00		18.03	19.00	99.20
802.11ax-HE20 MCS0		100	5500	Not Required		16.00		Not Required		16.00		Not Required	19.00	Not Required
	116	5580	16.00		16.00	19.00								
	132	5660	16.00		16.00	19.00								
	140	5700	16.00		16.00	19.00								
802.11ax-HE40 MCS0	102	5510	16.00		16.00	19.00								
	110	5550	16.00		16.00	19.00								
	134	5670	16.00		16.00	19.00								
802.11ax-HE80 MCS0	106	5530	16.00		16.00	16.00	16.00		19.00	19.00				



WLAN 5.5GHz Power State 2

5.5GHz WLAN				Ant 7			Ant 8						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	13.50	Not Required	Not Required	13.50	Not Required			
116			5580	13.50		13.50							
132			5660	13.50		13.50							
140			5700	13.50		13.50							
802.11n-HT20 MCS0		100	5500	13.50		13.50							
		116	5580	13.50		13.50							
		132	5660	13.50		13.50							
		140	5700	13.50		13.50							
802.11n-HT40 MCS0		102	5510	13.50		13.50							
		110	5550	13.50		13.50							
		134	5670	13.50		13.50							
802.11ac-VHT20 MCS0		100	5500	13.50		13.50							
		116	5580	13.50		13.50							
		132	5660	13.50		13.50							
		140	5700	13.50		13.50							
802.11ac-VHT40 MCS0		102	5510	13.50		13.50							
		110	5550	13.50		13.50							
		134	5670	13.50		13.50							
802.11ac-VHT80 MCS0		106	5530	13.32		13.50			99.20		13.22	13.50	99.20
802.11ax-HE20 MCS0		100	5500	Not Required		13.50			Not Required		Not Required	13.50	Not Required
	116	5580	13.50		13.50								
	132	5660	13.50		13.50								
	140	5700	13.50		13.50								
802.11ax-HE40 MCS0	102	5510	13.50		13.50								
	110	5550	13.50		13.50								
	134	5670	13.50		13.50								
802.11ax-HE80 MCS0	106	5530	13.50		13.50		13.50						



5.5GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8									
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %							
	5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required						
116			5580	13.50		16.50											
132			5660	13.50		16.50											
140			5700	13.50		16.50											
802.11n-HT20 MCS0		100	5500	13.50		16.50											
		116	5580	13.50		16.50											
		132	5660	13.50		16.50											
		140	5700	13.50		16.50											
802.11n-HT40 MCS0		102	5510	13.50		16.50											
		110	5550	13.50		16.50											
		134	5670	13.50		16.50											
802.11ac-VHT20 MCS0		100	5500	13.50		16.50											
		116	5580	13.50		16.50											
		132	5660	13.50		16.50											
		140	5700	13.50		16.50											
802.11ac-VHT40 MCS0		102	5510	13.50		16.50											
		110	5550	13.50		16.50											
		134	5670	13.50		16.50											
802.11ac-VHT80 MCS0		106	5530	13.47		13.50		11.50		13.50		15.50	16.50	99.20			
802.11ax-HE20 MCS0		100	5500	Not Required		13.50		Not Required		13.50		Not Required	16.50	Not Required			
		116	5580			13.50				16.50							
		132	5660			13.50				16.50							
		140	5700			13.50				16.50							
802.11ax-HE40 MCS0		102	5510			13.50				16.50							
		110	5550			13.50				16.50							
		134	5670			13.50				16.50							
802.11ax-HE80 MCS0		106	5530			13.50				13.50			13.50		13.50	16.50	16.50



WLAN 5.8GHz Power State 0

5.8GHz WLAN				Ant 7			Ant 8						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	802.11a 6Mbps	149	5745	Not Required	20.00	Not Required	Not Required	20.00	Not Required				
		157	5785							20.00			
		165	5825							20.00			
	802.11n-HT20 MCS0	149	5745							20.00			
		157	5785							20.00			
		165	5825							20.00			
	802.11n-HT40 MCS0	151	5755							20.00			
		159	5795							20.00			
	802.11ac-VHT20 MCS0	149	5745							20.00			
		157	5785							20.00			
	802.11ac-VHT40 MCS0	165	5825							20.00			
		151	5755							20.00			
	802.11ac-VHT80 MCS0	159	5795							20.00			
		155	5775							19.58	20.00	99.60	19.29
802.11ax-HE20 MCS0	149	5745	Not Required							20.00	Not Required	Not Required	20.00
	157	5785		20.00									
	165	5825		20.00									
802.11ax-HE40 MCS0	151	5755		20.00									
	159	5795		20.00									
802.11ax-HE80 MCS0	155	5775		20.00									

5.8GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	802.11a 6Mbps	149	5745	Not Required	20.00	Not Required	20.00	Not Required	23.00	Not Required				
		157	5785								20.00	23.00		
		165	5825								20.00	23.00		
	802.11n-HT20 MCS0	149	5745								20.00	23.00		
		157	5785								20.00	23.00		
		165	5825								20.00	23.00		
	802.11n-HT40 MCS0	151	5755								20.00	23.00		
		159	5795								20.00	23.00		
	802.11ac-VHT20 MCS0	149	5745								20.00	23.00		
		157	5785								20.00	23.00		
	802.11ac-VHT40 MCS0	165	5825								20.00	23.00		
		151	5755								20.00	23.00		
	802.11ac-VHT80 MCS0	159	5795								20.00	23.00		
		155	5775								19.80	20.00	20.00	22.91
802.11ax-HE20 MCS0	149	5745	Not Required								20.00	Not Required	20.00	Not Required
	157	5785		20.00	23.00									
	165	5825		20.00	23.00									
802.11ax-HE40 MCS0	151	5755		20.00	23.00									
	159	5795		20.00	23.00									
802.11ax-HE80 MCS0	155	5775		20.00	23.00									



WLAN 5.8GHz Power State 1

5.8GHz WLAN				Ant 7			Ant 8								
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %						
	802.11a 6Mbps	149	5745	Not Required	15.50	Not Required	Not Required	15.50	15.50	Not Required					
		157	5785												
		165	5825												
	802.11n-HT20 MCS0	149	5745												
		157	5785												
		165	5825												
	802.11n-HT40 MCS0	151	5755												
		159	5795												
	802.11ac-VHT20 MCS0	149	5745												
		157	5785												
		165	5825												
	802.11ac-VHT40 MCS0	151	5755												
		159	5795												
	802.11ac-VHT80 MCS0	155	5775								15.18	15.50	99.60	15.19	15.50
802.11ax-HE20 MCS0	149	5745	Not Required								15.50	Not Required	Not Required	15.50	15.50
	157	5785													
	165	5825													
802.11ax-HE40 MCS0	151	5755													
	159	5795													
802.11ax-HE80 MCS0	155	5775		15.50	15.50	15.50	15.50	15.50	15.50						

5.8GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8									
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %							
	802.11a 6Mbps	149	5745	Not Required	15.50	Not Required	15.50	15.50	18.50	18.50	Not Required						
		157	5785														
		165	5825														
	802.11n-HT20 MCS0	149	5745														
		157	5785														
		165	5825														
	802.11n-HT40 MCS0	151	5755														
		159	5795														
	802.11ac-VHT20 MCS0	149	5745														
		157	5785														
		165	5825														
	802.11ac-VHT40 MCS0	151	5755														
		159	5795														
	802.11ac-VHT80 MCS0	155	5775									15.01	15.50	14.08	15.50	17.58	18.50
802.11ax-HE20 MCS0	149	5745	Not Required									15.50	Not Required	15.50	15.50	18.50	18.50
	157	5785															
	165	5825															
802.11ax-HE40 MCS0	151	5755															
	159	5795															
802.11ax-HE80 MCS0	155	5775		15.50	15.50	15.50	15.50	18.50	18.50	18.50							



WLAN 5.8GHz Power State 2

5.8GHz WLAN				Ant 7			Ant 8						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %					
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	13.50	Not Required	Not Required	13.50	Not Required				
		157	5785		13.50			13.50					
		165	5825		13.50			13.50					
	802.11n-HT20 MCS0	149	5745		13.50			13.50					
		157	5785		13.50			13.50					
		165	5825		13.50			13.50					
	802.11n-HT40 MCS0	151	5755		13.50			13.50					
		159	5795		13.50			13.50					
	802.11ac-VHT20 MCS0	149	5745		13.50			13.50					
		157	5785		13.50			13.50					
		165	5825		13.50			13.50					
	802.11ac-VHT40 MCS0	151	5755		13.50			13.50					
		159	5795		13.50			13.50					
	802.11ac-VHT80 MCS0	155	5775		13.14			13.50		99.60	13.22	13.50	99.60
	802.11ax-HE20 MCS0	149	5745		Not Required			13.50		Not Required	Not Required	13.50	Not Required
		157	5785	13.50		13.50							
		165	5825	13.50		13.50							
	802.11ax-HE40 MCS0	151	5755	13.50		13.50							
159		5795	13.50	13.50									
802.11ax-HE80 MCS0	155	5775	13.50	13.50		13.50	13.50						

5.8GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %						
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	13.50	Not Required	Not Required	Not Required	16.50	Not Required					
		157	5785		13.50				13.50		16.50				
		165	5825		13.50				13.50		16.50				
	802.11n-HT20 MCS0	149	5745		13.50				13.50						
		157	5785		13.50				13.50						
		165	5825		13.50				13.50						
	802.11n-HT40 MCS0	151	5755		13.50				13.50						
		159	5795		13.50				13.50						
	802.11ac-VHT20 MCS0	149	5745		13.50				13.50						
		157	5785		13.50				13.50						
		165	5825		13.50				13.50						
	802.11ac-VHT40 MCS0	151	5755		13.50				13.50						
		159	5795		13.50				13.50						
	802.11ac-VHT80 MCS0	155	5775		13.35				13.50		12.18	13.50	15.81	16.50	99.20
	802.11ax-HE20 MCS0	149	5745		Not Required				13.50		Not Required	Not Required	Not Required	16.50	Not Required
		157	5785	13.50		13.50	16.50								
		165	5825	13.50		13.50	16.50								
	802.11ax-HE40 MCS0	151	5755	13.50		13.50									
159		5795	13.50	13.50											
802.11ax-HE80 MCS0	155	5775	13.50	13.50		13.50	13.50	16.50							



WLAN 5.8GHz Power State 3

5.8GHz WLAN				Ant 7			Ant 8									
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %							
	802.11a 6Mbps	149	5745	Not Required	19.00	Not Required	Not Required	19.00	19.00	Not Required						
		157	5785													
		165	5825													
	802.11n-HT20 MCS0	149	5745													
		157	5785													
		165	5825													
	802.11n-HT40 MCS0	151	5755													
		159	5795													
	802.11ac-VHT20 MCS0	149	5745													
		157	5785													
	802.11ac-VHT40 MCS0	151	5755													
		159	5795													
	802.11ac-VHT80 MCS0	155	5775								18.85	19.00	99.60	18.92	19.00	99.60
	802.11ax-HE20 MCS0	149	5745								Not Required	19.00	Not Required	Not Required	19.00	19.00
157		5785														
165		5825														
802.11ax-HE40 MCS0	151	5755														
	159	5795														
802.11ax-HE80 MCS0	155	5775														

5.8GHz WLAN				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8										
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %								
	802.11a 6Mbps	149	5745	Not Required	19.00	Not Required	19.00	19.00	Not Required	22.00	Not Required							
		157	5785															
		165	5825															
	802.11n-HT20 MCS0	149	5745															
		157	5785															
		165	5825															
	802.11n-HT40 MCS0	151	5755															
		159	5795															
	802.11ac-VHT20 MCS0	149	5745															
		157	5785															
	802.11ac-VHT40 MCS0	151	5755															
		159	5795															
	802.11ac-VHT80 MCS0	155	5775									18.96	19.00	18.58	19.00	21.78	22.00	99.20
	802.11ax-HE20 MCS0	149	5745									Not Required	19.00	Not Required	19.00	19.00	Not Required	22.00
157		5785																
165		5825																
802.11ax-HE40 MCS0	151	5755																
	159	5795																
802.11ax-HE80 MCS0	155	5775																



WLAN 6GHz

WiFi 6E				Ant 7			Ant 8		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	1	5955	Not Required	4.00	Not Required	Not Required	4.00	Not Required	
	57	6235		4.00			4.00		
	113	6515		4.00			4.00		
	173	6815		4.00			4.00		
	233	7115		6.00			6.00		
802.11n-HT20 MCS0	1	5955		5.00			5.00		
	57	6235		5.00			5.00		
	113	6515		5.00			5.00		
	173	6815		5.00			5.00		
	233	7115		-4.00			-4.00		
802.11n-HT40 MCS0	3	5965		7.00			7.00		
	59	6245		7.00			7.00		
	107	6485		7.00			7.00		
	171	6805		7.00			7.00		
802.11ac-VHT20 MCS0	227	7085		8.00			8.00		
	1	5955		5.00			5.00		
	57	6235		5.00			5.00		
	113	6515		5.00			5.00		
802.11ac-VHT40 MCS0	173	6815		5.00			5.00		
	233	7115		-4.00			-4.00		
	3	5965	7.00	7.00					
	59	6245	7.00	7.00					
802.11ac-VHT80 MCS0	107	6485	7.00	7.00					
	171	6805	7.00	7.00					
	227	7085	8.00	8.00					
	7	5985	10.00	10.00					
802.11ac-VHT160 MCS0	71	6305	10.00	10.00					
	119	6545	10.00	10.00					
	167	6785	10.00	10.00					
	215	7025	10.00	10.00					
802.11ax-HE20 MCS0	15	6025	12.77	13.00	100.00	12.31	13.00	100.00	
	47	6185	12.75	13.00		12.52	13.00		
	111	6505	12.51	13.00		12.69	13.00		
	175	6825	12.54	13.00		12.70	13.00		
	207	6985	12.38	13.00		12.76	13.00		
802.11ax-HE40 MCS0	1	5955	Not Required	4.00	Not Required	Not Required	4.00	Not Required	
	57	6235		4.00			4.00		
	113	6515		4.00			4.00		
	173	6815		4.00			4.00		
	233	7115		-4.00			-4.00		
802.11ax-HE80 MCS0	3	5965		7.00			7.00		
	59	6245		7.00			7.00		
	107	6485		7.00			7.00		
	171	6805		7.00			7.00		
802.11ax-HE160 MCS0	227	7085		8.50			8.50		
	7	5985		10.00			10.00		
	71	6305		10.00			10.00		
	119	6545		10.00			10.00		
802.11ax-HE160 MCS0	167	6785		10.00			10.00		
	215	7025		10.00			10.00		
	15	6025		13.00			13.00		
	47	6185		13.00			13.00		
802.11ax-HE160 MCS0	111	6505		13.00			13.00		
	175	6825		13.00			13.00		



	207	6985		13.00			13.00	
--	-----	------	--	-------	--	--	-------	--

WiFi 6E				Ant 7+8(7)		Ant 7+8(8)		Ant 7+8		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	1	5955	Not Required	4.00	Not Required	4.00	Not Required	7.00	Not Required	
	57	6235		4.00		7.00				
	113	6515		4.00		7.00				
	173	6815		4.00		7.00				
	233	7115		6.00		9.00				
802.11n-HT20 MCS0	1	5955	Not Required	5.00	Not Required	5.00	Not Required	8.00	Not Required	
	57	6235		5.00		8.00				
	113	6515		5.00		8.00				
	173	6815		5.00		8.00				
	233	7115		-4.00		-1.00				
802.11n-HT40 MCS0	3	5965	Not Required	7.00	Not Required	7.00	Not Required	10.00	Not Required	
	59	6245		7.00		10.00				
	107	6485		7.00		10.00				
	171	6805		7.00		10.00				
	227	7085		8.00		11.00				
802.11ac-VHT20 MCS0	1	5955	Not Required	5.00	Not Required	5.00	Not Required	8.00	Not Required	
	57	6235		5.00		8.00				
	113	6515		5.00		8.00				
	173	6815		5.00		8.00				
	233	7115		-4.00		-1.00				
802.11ac-VHT40 MCS0	3	5965	Not Required	7.00	Not Required	7.00	Not Required	10.00	Not Required	
	59	6245		7.00		10.00				
	107	6485		7.00		10.00				
	171	6805		7.00		10.00				
	227	7085		8.00		11.00				
802.11ac-VHT80 MCS0	7	5985	Not Required	10.00	Not Required	10.00	Not Required	13.00	Not Required	
	71	6305		10.00		13.00				
	119	6545		10.00		13.00				
	167	6785		10.00		13.00				
	215	7025		10.00		13.00				
802.11ac-VHT160 MCS0	15	6025	12.74	13.00	11.62	13.00	15.23	16.00	100.00	
	47	6185	12.82	13.00	11.13	13.00	15.07	16.00		
	111	6505	12.15	13.00	11.62	13.00	14.90	16.00		
	175	6825	12.74	13.00	11.50	13.00	15.17	16.00		
	207	6985	12.43	13.00	11.63	13.00	15.06	16.00		
802.11ax-HE20 MCS0	1	5955	Not Required	4.00	Not Required	4.00	Not Required	7.00	Not Required	
	57	6235		4.00		7.00				
	113	6515		4.00		7.00				
	173	6815		4.00		7.00				
	233	7115		-4.00		-1.00				
802.11ax-HE40 MCS0	3	5965	Not Required	7.00	Not Required	7.00	Not Required	10.00	Not Required	
	59	6245		7.00		10.00				
	107	6485		7.00		10.00				
	171	6805		7.00		10.00				
	227	7085		8.50		11.50				
802.11ax-HE80 MCS0	7	5985	Not Required	10.00	Not Required	10.00	Not Required	13.00	Not Required	
	71	6305		10.00		13.00				
	119	6545		10.00		13.00				
	167	6785		10.00		13.00				
	215	7025		10.00		13.00				
802.11ax-HE160 MCS0	15	6025	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	
	47	6185		13.00		16.00				
	111	6505		13.00		16.00				



FCC SAR TEST REPORT

Report No. : FA210409

		175	6825		13.00		13.00		16.00	
		207	6985		13.00		13.00		16.00	

Bluetooth Power

Ant7								
Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit		
			1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	15.59	Not Required	Not Required	16.00	14.50	14.50
	CH 39	2441	16.31			17.00		
	CH 78	2480	16.16			17.00		

Ant7				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	Not Required	Not Required
	CH 19	2440		
	CH 39	2480		
Tune-up Limit			8	8

Ant8								
Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit		
			1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	14.63	Not Required	Not Required	16.00	14.50	14.50
	CH 39	2441	16.68			17.00		
	CH 78	2480	15.24			17.00		

Ant8				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	Not Required	Not Required
	CH 19	2440		
	CH 39	2480		
Tune-up Limit			9.5	9.5

BT Duty Cycle_Ant7 / 8

