



REPORT No.: SZ25110073S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

Full Power

Band		WCDMA Band II (dBm)_ANT0			Tune-up Limit (dBm)	WCDMA Band IV (dBm)_ANT0			Tune-up Limit (dBm)	WCDMA Band V (dBm)_ANT0			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.90	22.98	22.84	24.00	22.89	23.02	22.92	24.00	23.00	23.04	23.02	24.00
3GPP Rel 5	HSDPA Subtest-1	21.76	21.89	21.88	22.50	21.96	22.03	21.93	22.50	21.94	22.02	22.18	23.00
3GPP Rel 5	HSDPA Subtest-2	21.93	21.95	21.80	22.50	21.98	21.53	21.89	22.50	22.04	22.06	22.12	23.00
3GPP Rel 5	HSDPA Subtest-3	21.36	21.57	21.48	22.00	21.48	21.63	21.54	22.50	21.65	21.59	21.61	22.50
3GPP Rel 5	HSDPA Subtest-4	21.48	21.44	21.38	22.00	21.50	21.63	21.51	22.50	21.64	21.60	21.55	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.06	22.12	22.00	23.00	22.14	22.13	22.11	23.00	22.06	22.12	22.01	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.00	22.05	22.06	23.00	22.18	22.12	22.14	23.00	21.99	22.07	22.00	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.49	21.63	21.56	22.50	21.61	21.70	21.60	22.50	21.42	21.57	21.48	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.52	21.52	21.53	22.50	21.63	21.68	21.62	22.50	21.55	21.49	21.48	22.00
3GPP Rel 6	HSUPA Subtest-1	21.91	21.98	21.99	22.50	21.98	22.01	21.96	22.50	21.98	22.03	22.04	23.00
3GPP Rel 6	HSUPA Subtest-2	21.50	21.40	21.41	22.00	21.50	21.63	21.24	22.00	21.51	21.55	21.57	22.50
3GPP Rel 6	HSUPA Subtest-3	21.87	21.96	21.87	22.50	22.02	22.08	21.95	22.50	22.02	21.99	21.94	22.50
3GPP Rel 6	HSUPA Subtest-4	21.92	22.01	21.86	22.50	22.03	22.07	21.90	22.50	22.01	22.06	21.99	22.50
3GPP Rel 6	HSUPA Subtest-5	21.84	21.97	21.88	22.50	21.99	22.14	21.83	22.50	22.13	22.01	21.95	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.69	21.70	21.68	22.50	21.74	21.69	21.74	22.50	21.56	21.67	21.65	22.50
Attenuator		Cable Loss			0.6	Cable Loss			0.6	Cable Loss			0.6
Mode		Max.			22.98	Max.			23.02	Max.			23.04

Band 2 (1900MHz Band) (dBm)_Ant 0&Ant 4 Part 24E								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	23.40	23.41	23.38	24.5	
20	QPSK	1	49	23.31	23.33	23.26		
20	QPSK	1	99	23.23	23.30	23.27		
20	QPSK	50	0	22.37	22.49	22.38	23.5	
20	QPSK	50	24	22.41	22.35	22.33		
20	QPSK	50	50	22.38	22.41	22.34		
20	QPSK	100	0	22.41	22.42	22.31	23.5	
20	16QAM	1	0	22.68	22.59	22.42		
20	16QAM	1	49	22.56	22.65	22.60		
20	16QAM	1	99	22.66	22.43	22.70	22.5	
20	16QAM	50	0	21.37	21.32	21.36		
20	16QAM	50	24	21.58	21.43	21.42		
20	16QAM	50	50	21.45	21.48	21.50	22.5	
20	16QAM	100	0	21.43	21.45	21.41		
20	64QAM	1	0	21.53	21.67	21.62		
20	64QAM	1	49	21.56	21.60	21.50	22.5	
20	64QAM	1	99	21.66	21.54	21.36		
20	64QAM	50	0	20.51	20.40	20.40		
20	64QAM	50	24	20.34	20.35	20.42	21.5	
20	64QAM	50	50	20.47	20.40	20.45		
20	64QAM	100	0	20.39	20.42	20.41		
20	256QAM	1	0	18.27	18.42	18.37	19.5	
20	256QAM	1	49	18.30	18.35	18.25		
20	256QAM	1	99	18.40	18.29	18.11		
20	256QAM	50	0	18.25	18.15	18.15	19.5	
20	256QAM	50	24	18.08	18.10	18.17		
20	256QAM	50	50	18.21	18.15	18.20		
20	256QAM	100	0	18.13	18.17	18.16		
Channel				18675	18900	19125	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	23.33	23.34	23.31	24.5	
15	QPSK	1	37	23.24	23.26	23.19		
15	QPSK	1	74	23.16	23.23	23.20		
15	QPSK	36	0	22.30	22.42	22.31	23.5	
15	QPSK	36	20	22.34	22.28	22.26		
15	QPSK	36	39	22.31	22.34	22.27		
15	QPSK	75	0	22.34	22.35	22.24	23.5	
15	16QAM	1	0	22.61	22.52	22.35		
15	16QAM	1	37	22.49	22.58	22.53		
15	16QAM	1	74	22.59	22.36	22.63	22.5	
15	16QAM	36	0	21.30	21.25	21.29		
15	16QAM	36	20	21.51	21.36	21.35		
15	16QAM	36	39	21.38	21.41	21.43	22.5	
15	16QAM	75	0	21.36	21.38	21.34		
15	64QAM	1	0	21.46	21.60	21.55		
15	64QAM	1	37	21.49	21.53	21.43	21.5	
15	64QAM	1	74	21.59	21.47	21.29		
15	64QAM	36	0	20.44	20.33	20.33		
15	64QAM	36	20	20.27	20.28	20.35	19.5	
15	64QAM	36	39	20.40	20.33	20.38		
15	64QAM	75	0	20.32	20.35	20.34		
15	256QAM	1	0	18.20	18.35	18.30	19.5	
15	256QAM	1	37	18.23	18.28	18.18		
15	256QAM	1	74	18.33	18.22	18.04		
15	256QAM	36	0	18.18	18.08	18.08	19.5	
15	256QAM	36	20	18.01	18.03	18.10		
15	256QAM	36	39	18.14	18.08	18.13		
15	256QAM	75	0	18.06	18.10	18.09		
Channel				18650	18900	19150	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	23.24	23.25	23.22	24.5	
10	QPSK	1	25	23.15	23.17	23.10		
10	QPSK	1	49	23.07	23.14	23.11		
10	QPSK	25	0	22.21	22.33	22.22	23.5	
10	QPSK	25	12	22.25	22.19	22.17		
10	QPSK	25	25	22.22	22.25	22.18		
10	QPSK	50	0	22.25	22.26	22.15	23.5	
10	16QAM	1	0	22.52	22.43	22.26		
10	16QAM	1	25	22.40	22.49	22.44		
10	16QAM	1	49	22.50	22.27	22.54	22.5	
10	16QAM	25	0	21.21	21.16	21.20		
10	16QAM	25	12	21.42	21.27	21.26		
10	16QAM	25	25	21.29	21.32	21.34	22.5	
10	16QAM	50	0	21.27	21.29	21.25		
10	64QAM	1	0	21.37	21.51	21.46		
10	64QAM	1	25	21.40	21.44	21.34	22.5	
10	64QAM	1	49	21.50	21.38	21.20		
10	64QAM	25	0	20.35	20.24	20.24		
10	64QAM	25	12	20.18	20.19	20.26	21.5	
10	64QAM	25	25	20.31	20.24	20.29		
10	64QAM	50	0	20.23	20.26	20.25		
10	256QAM	1	0	18.11	18.26	18.21	19.5	
10	256QAM	1	25	18.14	18.19	18.09		
10	256QAM	1	49	18.24	18.13	17.95		
10	256QAM	25	0	18.09	17.99	17.99	19.5	
10	256QAM	25	12	17.92	17.94	18.01		
10	256QAM	25	25	18.05	17.99	18.04		
10	256QAM	50	0	17.97	18.01	18.00		
Channel				18625	18900	19175	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	23.21	23.22	23.19	24.5	
5	QPSK	1	12	23.12	23.14	23.07		
5	QPSK	1	24	23.04	23.11	23.08		
5	QPSK	12	0	22.18	22.30	22.19	23.5	
5	QPSK	12	7	22.22	22.16	22.14		
5	QPSK	12	13	22.19	22.22	22.15		

Band 4 (AWS Band) (dBm)_Ant 0 Part 27L (only on channel required)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.33	23.39	23.37	24.5
20	QPSK	1	49	23.33	23.35	23.28	
20	QPSK	1	99	23.25	23.32	23.29	
20	QPSK	50	0	22.39	22.51	22.40	23.5
20	QPSK	50	24	22.43	22.37	22.35	
20	QPSK	50	50	22.40	22.43	22.36	
20	QPSK	100	0	22.43	22.44	22.33	23.5
20	16QAM	1	0	22.70	22.61	22.44	
20	16QAM	1	49	22.58	22.67	22.62	
20	16QAM	1	99	22.68	22.45	22.72	22.5
20	16QAM	50	0	21.39	21.34	21.38	
20	16QAM	50	24	21.60	21.45	21.44	
20	16QAM	50	50	21.47	21.50	21.52	22.5
20	16QAM	100	0	21.45	21.47	21.43	
20	64QAM	1	0	21.55	21.69	21.64	22.5
20	64QAM	1	49	21.58	21.62	21.52	
20	64QAM	1	99	21.68	21.56	21.38	
20	64QAM	50	0	20.53	20.42	20.42	21.5
20	64QAM	50	24	20.36	20.37	20.44	
20	64QAM	50	50	20.49	20.42	20.47	
20	64QAM	100	0	20.41	20.44	20.43	19.5
20	256QAM	1	0	18.29	18.44	18.39	
20	256QAM	1	49	18.32	18.37	18.27	
20	256QAM	1	99	18.42	18.31	18.13	19.5
20	256QAM	50	0	18.27	18.17	18.17	
20	256QAM	50	24	18.10	18.12	18.19	
20	256QAM	50	50	18.23	18.17	18.22	22.5
20	256QAM	100	0	18.15	18.19	18.18	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.26	23.32	23.30	24.5
15	QPSK	1	37	23.26	23.28	23.21	
15	QPSK	1	74	23.18	23.25	23.22	
15	QPSK	36	0	22.32	22.44	22.33	23.5
15	QPSK	36	20	22.36	22.30	22.28	
15	QPSK	36	39	22.33	22.36	22.29	
15	QPSK	75	0	22.36	22.37	22.26	23.5
15	16QAM	1	0	22.63	22.54	22.37	
15	16QAM	1	37	22.51	22.60	22.55	
15	16QAM	1	74	22.61	22.38	22.65	22.5
15	16QAM	36	0	21.32	21.27	21.31	
15	16QAM	36	20	21.53	21.38	21.37	
15	16QAM	36	39	21.40	21.43	21.45	22.5
15	16QAM	75	0	21.38	21.40	21.36	
15	64QAM	1	0	21.48	21.62	21.57	22.5
15	64QAM	1	37	21.51	21.55	21.45	
15	64QAM	1	74	21.61	21.49	21.31	
15	64QAM	36	0	20.46	20.35	20.35	21.5
15	64QAM	36	20	20.29	20.30	20.37	
15	64QAM	36	39	20.42	20.35	20.40	
15	64QAM	75	0	20.34	20.37	20.36	19.5
15	256QAM	1	0	18.22	18.37	18.32	
15	256QAM	1	37	18.25	18.30	18.20	
15	256QAM	1	74	18.35	18.24	18.06	19.5
15	256QAM	36	0	18.20	18.10	18.10	
15	256QAM	36	20	18.03	18.05	18.12	
15	256QAM	36	39	18.16	18.10	18.15	19.5
15	256QAM	75	0	18.08	18.12	18.11	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.21	23.27	23.25	24.5
10	QPSK	1	25	23.21	23.23	23.16	
10	QPSK	1	49	23.13	23.20	23.17	
10	QPSK	25	0	22.27	22.39	22.28	23.5
10	QPSK	25	12	22.31	22.25	22.23	
10	QPSK	25	25	22.28	22.31	22.24	
10	QPSK	50	0	22.31	22.32	22.21	23.5
10	16QAM	1	0	22.58	22.49	22.32	
10	16QAM	1	25	22.46	22.55	22.50	
10	16QAM	1	49	22.56	22.33	22.60	22.5
10	16QAM	25	0	21.27	21.22	21.26	
10	16QAM	25	12	21.48	21.33	21.32	
10	16QAM	25	25	21.35	21.38	21.40	21.5
10	16QAM	50	0	21.33	21.35	21.31	
10	64QAM	1	0	21.43	21.57	21.52	22.5
10	64QAM	1	25	21.46	21.50	21.40	
10	64QAM	1	49	21.56	21.44	21.26	
10	64QAM	25	0	20.41	20.30	20.30	21.5
10	64QAM	25	12	20.24	20.25	20.32	
10	64QAM	25	25	20.37	20.30	20.35	
10	64QAM	50	0	20.29	20.32	20.31	19.5
10	256QAM	1	0	18.17	18.32	18.27	
10	256QAM	1	25	18.20	18.25	18.15	
10	256QAM	1	49	18.30	18.19	18.01	19.5
10	256QAM	25	0	18.15	18.05	18.05	
10	256QAM	25	12	17.98	18.00	18.07	
10	256QAM	25	25	18.11	18.05	18.10	19.5
10	256QAM	50	0	18.03	18.07	18.06	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.30	23.36	23.34	24.5
5	QPSK	1	12	23.30	23.32	23.25	
5	QPSK	1	24	23.22	23.29	23.26	
5	QPSK	12	0	22.36	22.48	22.37	23.5
5	QPSK	12	7	22.40	22.34	22.32	
5	QPSK	12	13	22.37	22.40	22.33	

5	QPSK	25	0	22.22	22.23	22.12	23.5
5	16QAM	1	0	22.49	22.40	22.23	
5	16QAM	1	12	22.37	22.46	22.41	
5	16QAM	1	24	22.47	22.24	22.51	
5	16QAM	12	0	21.18	21.13	21.17	22.5
5	16QAM	12	7	21.39	21.24	21.23	
5	16QAM	12	13	21.26	21.29	21.31	
5	16QAM	25	0	21.24	21.26	21.22	
5	64QAM	1	0	21.34	21.48	21.43	22.5
5	64QAM	1	12	21.37	21.41	21.31	
5	64QAM	1	24	21.47	21.35	21.17	
5	64QAM	12	0	20.32	20.21	20.21	
5	64QAM	12	7	20.15	20.16	20.23	21.5
5	64QAM	12	13	20.28	20.21	20.26	
5	64QAM	25	0	20.20	20.23	20.22	
5	256QAM	1	0	18.08	18.23	18.18	
5	256QAM	1	12	18.11	18.16	18.06	19.5
5	256QAM	1	24	18.21	18.10	17.92	
5	256QAM	12	0	18.06	17.96	17.96	
5	256QAM	12	7	17.89	17.91	17.98	
5	256QAM	12	13	18.02	17.96	18.01	19.5
5	256QAM	25	0	17.94	17.98	17.97	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.12	23.25	23.10	24.5
3	QPSK	1	8	23.03	23.05	22.98	
3	QPSK	1	14	22.95	23.02	22.99	
3	QPSK	8	0	22.09	22.21	22.10	
3	QPSK	8	4	22.13	22.07	22.05	23.5
3	QPSK	8	7	22.10	22.13	22.06	
3	QPSK	15	0	22.13	22.14	22.03	
3	16QAM	1	0	22.40	22.31	22.14	
3	16QAM	1	8	22.28	22.37	22.32	23.5
3	16QAM	1	14	22.38	22.15	22.42	
3	16QAM	8	0	21.09	21.04	21.08	
3	16QAM	8	4	21.30	21.15	21.14	
3	16QAM	8	7	21.17	21.20	21.22	22.5
3	16QAM	15	0	21.15	21.17	21.13	
3	64QAM	1	0	21.25	21.39	21.34	
3	64QAM	1	8	21.28	21.32	21.22	
3	64QAM	1	14	21.38	21.26	21.08	21.5
3	64QAM	8	0	20.23	20.12	20.12	
3	64QAM	8	4	20.06	20.07	20.14	
3	64QAM	8	7	20.19	20.12	20.17	
3	64QAM	15	0	20.11	20.14	20.13	19.5
3	256QAM	1	0	18.28	18.43	18.38	
3	256QAM	1	8	18.31	18.36	18.26	
3	256QAM	1	14	18.41	18.30	18.12	
3	256QAM	8	0	18.26	18.26	18.16	
3	256QAM	8	4	18.09	18.11	18.18	19.5
3	256QAM	8	7	18.22	18.16	18.21	
3	256QAM	15	0	18.14	18.18	18.17	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.05	23.19	23.03	24.5
1.4	QPSK	1	3	22.96	22.98	22.91	
1.4	QPSK	1	5	22.88	22.95	22.92	
1.4	QPSK	3	0	22.02	22.14	22.03	
1.4	QPSK	3	1	22.06	22.00	21.98	23.5
1.4	QPSK	3	3	22.03	22.06	21.99	
1.4	QPSK	6	0	22.06	22.40	21.96	
1.4	16QAM	1	0	22.33	22.24	22.07	
1.4	16QAM	1	3	22.21	22.30	22.25	23.5
1.4	16QAM	1	5	22.31	22.08	22.35	
1.4	16QAM	3	0	21.02	20.97	21.01	
1.4	16QAM	3	1	21.23	21.08	21.07	
1.4	16QAM	3	3	21.10	21.13	21.15	22.5
1.4	16QAM	6	0	21.08	21.31	21.06	
1.4	64QAM	1	0	21.18	21.32	21.27	
1.4	64QAM	1	3	21.21	21.25	21.15	
1.4	64QAM	1	5	21.31	21.19	21.01	22.5
1.4	64QAM	3	0	20.16	20.05	20.05	
1.4	64QAM	3	1	19.99	20.00	20.07	
1.4	64QAM	3	3	20.12	20.05	20.10	
1.4	64QAM	6	0	20.04	20.35	20.06	21.5
1.4	256QAM	1	0	18.21	18.36	18.31	
1.4	256QAM	1	3	18.24	18.29	18.19	
1.4	256QAM	1	5	18.34	18.23	18.05	
1.4	256QAM	3	0	18.19	18.09	18.09	
1.4	256QAM	3	1	18.02	18.04	18.11	19.5
1.4	256QAM	3	3	18.15	18.09	18.14	
1.4	256QAM	6	0	18.07	18.31	18.10	

5	QPSK	25	0	22.40	22.41	22.30	23.5
5	16QAM	1	0	22.67	22.58	22.41	
5	16QAM	1	12	22.55	22.64	22.59	
5	16QAM	1	24	22.65	22.42	22.69	
5	16QAM	12	0	21.36	21.31	21.35	22.5
5	16QAM	12	7	21.57	21.42	21.41	
5	16QAM	12	13	21.44	21.47	21.49	
5	16QAM	25	0	21.42	21.44	21.40	
5	64QAM	1	0	21.52	21.66	21.61	22.5
5	64QAM	1	12	21.55	21.59	21.49	
5	64QAM	1	24	21.65	21.53	21.35	
5	64QAM	12	0	20.50	20.39	20.39	
5	64QAM	12	7	20.33	20.34	20.41	21.5
5	64QAM	12	13	20.46	20.39	20.44	
5	64QAM	25	0	20.38	20.41	20.40	
5	256QAM	1	0	18.26	18.41	18.36	
5	256QAM	1	12	18.29	18.34	18.24	19.5
5	256QAM	1	24	18.39	18.28	18.10	
5	256QAM	12	0	18.24	18.14	18.14	
5	256QAM	12	7	18.07	18.09	18.16	
5	256QAM	12	13	18.20	18.14	18.19	19.5
5	256QAM	25	0	18.12	18.16	18.15	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.26	23.32	23.30	24.5
3	QPSK	1	8	23.26	23.28	23.21	
3	QPSK	1	14	23.18	23.25	23.22	
3	QPSK	8	0	22.32	22.44	22.33	
3	QPSK	8	4	22.36	22.30	22.28	23.5
3	QPSK	8	7	22.33	22.36	22.29	
3	QPSK	15	0	22.36	22.37	22.26	
3	16QAM	1	0	22.63	22.54	22.37	
3	16QAM	1	8	22.51	22.60	22.55	23.5
3	16QAM	1	14	22.61	22.38	22.65	
3	16QAM	8	0	21.32	21.27	21.31	
3	16QAM	8	4	21.53	21.38	21.37	
3	16QAM	8	7	21.40	21.43	21.45	22.5
3	16QAM	15	0	21.38	21.40	21.36	
3	64QAM	1	0	21.48	21.62	21.57	
3	64QAM	1	8	21.51	21.55	21.45	
3	64QAM	1	14	21.61	21.49	21.31	22.5
3	64QAM	8	0	20.46	20.35	20.35	
3	64QAM	8	4	20.29	20.30	20.37	
3	64QAM	8	7	20.42	20.35	20.40	
3	64QAM	15	0	20.34	20.37	20.36	21.5
3	256QAM	1	0	18.22	18.37	18.32	
3	256QAM	1	8	18.25	18.30	18.20	
3	256QAM	1	14	18.35	18.24	18.06	
3	256QAM	8	0	18.20	18.10	18.10	
3	256QAM	8	4	18.03	18.05	18.12	19.5
3	256QAM	8	7	18.16	18.10	18.15	
3	256QAM	15	0	18.08	18.12	18.11	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.17	23.23	23.21	24.5
1.4	QPSK	1	3	23.17	23.19	23.12	
1.4	QPSK	1	5	23.09	23.16	23.13	
1.4	QPSK	3	0	22.23	22.35	22.24	
1.4	QPSK	3	1	22.27	22.21	22.19	23.5
1.4	QPSK	3	3	22.24	22.27	22.20	
1.4	QPSK	6	0	22.27	22.28	22.17	
1.4	16QAM	1	0	22.54	22.45	22.28	
1.4	16QAM	1	3	22.42	22.51	22.46	23.5
1.4	16QAM	1	5	22.52	22.29	22.56	
1.4	16QAM	3	0	21.23	21.18	21.22	
1.4	16QAM	3	1	21.44	21.29	21.28	
1.4	16QAM	3	3	21.31	21.34	21.36	22.5
1.4	16QAM	6	0	21.29	21.31	21.27	
1.4	64QAM	1	0	21.39	21.53	21.48	
1.4	64QAM	1	3	21.42	21.46	21.36	
1.4	64QAM	1	5	21.52	21.40	21.22	22.5
1.4	64QAM	3	0	20.37	20.26	20.26	
1.4	64QAM	3	1	20.20	20.21	20.28	
1.4	64QAM	3	3	20.33	20.26	20.31	
1.4	64QAM	6	0	20.25	20.28	20.27	21.5
1.4	256QAM	1	0	18.13	18.28	18.23	
1.4	256QAM	1	3	18.16	18.21	18.11	
1.4	256QAM	1	5	18.26	18.15	17.97	
1.4	256QAM	3	0	18.11	18.01	18.01	
1.4	256QAM	3	1	17.94	17.96	18.03	19.5
1.4	256QAM	3	3	18.07	18.01	18.06	
1.4	256QAM	6	0	17.99	18.20	18.02	19.5

Band 5 (Celluar Band) (dBm)_Ant 0 Part 22H(only on channel required)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.89	24.05	24.01	25	
10	QPSK	1	25	23.94	23.97	23.86		
10	QPSK	1	49	23.86	23.93	23.68		
10	QPSK	25	0	23.04	23.12	22.98	24	
10	QPSK	25	12	23.11	23.08	23.03		
10	QPSK	25	25	23.03	22.99	23.02		
10	QPSK	50	0	22.92	22.94	22.91	24	
10	16QAM	1	0	23.01	22.91	22.87		
10	16QAM	1	25	23.00	23.18	23.04		
10	16QAM	1	49	22.97	22.98	22.90	23	
10	16QAM	25	0	21.96	21.87	21.84		
10	16QAM	25	12	21.88	21.84	21.81		
10	16QAM	25	25	21.96	21.92	21.87	23	
10	16QAM	50	0	22.00	21.86	21.83		
10	64QAM	1	0	22.02	22.09	21.98		
10	64QAM	1	25	21.89	21.87	21.93	23	
10	64QAM	1	49	22.04	21.84	22.00		
10	64QAM	25	0	20.99	20.92	20.87		
10	64QAM	25	12	21.07	20.87	20.92	22	
10	64QAM	25	25	20.91	20.92	20.87		
10	64QAM	50	0	20.92	20.89	20.91		
10	256QAM	1	0	18.41	18.48	18.37	19.5	
10	256QAM	1	25	18.28	18.26	18.32		
10	256QAM	1	49	18.43	18.23	18.39		
10	256QAM	25	0	18.38	18.31	18.26	19.5	
10	256QAM	25	12	18.46	18.26	18.31		
10	256QAM	25	25	18.30	18.31	18.26		
10	256QAM	50	0	18.31	18.28	18.30		
Channel				20425	20525	20625	Tune-up limit (dBm)	
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.82	23.98	23.94	25	
5	QPSK	1	12	23.87	23.90	23.79		
5	QPSK	1	24	23.79	23.86	23.61		
5	QPSK	12	0	22.97	23.05	22.91	24	
5	QPSK	12	7	23.04	23.01	22.96		
5	QPSK	12	13	22.96	22.92	22.95		
5	QPSK	25	0	22.85	22.87	22.84	24	
5	16QAM	1	0	22.94	22.84	22.80		
5	16QAM	1	12	22.93	23.11	22.97		
5	16QAM	1	24	22.90	22.91	22.83	23	
5	16QAM	12	0	21.89	21.80	21.77		
5	16QAM	12	7	21.81	21.77	21.74		
5	16QAM	12	13	21.89	21.85	21.80	23	
5	16QAM	25	0	21.93	21.79	21.76		
5	64QAM	1	0	21.95	22.02	21.91		
5	64QAM	1	12	21.82	21.80	21.86	22	
5	64QAM	1	24	21.97	21.77	21.93		
5	64QAM	12	0	20.92	20.85	20.80		
5	64QAM	12	7	21.00	20.80	20.85	19.5	
5	64QAM	12	13	20.84	20.85	20.80		
5	64QAM	25	0	20.85	20.82	20.84		
5	256QAM	1	0	18.34	18.41	18.30	19.5	
5	256QAM	1	12	18.21	18.19	18.25		
5	256QAM	1	24	18.36	18.16	18.32		
5	256QAM	12	0	18.31	18.24	18.19	19.5	
5	256QAM	12	7	18.39	18.19	18.24		
5	256QAM	12	13	18.23	18.24	18.19		
5	256QAM	25	0	18.24	18.21	18.23		
Channel				20415	20525	20635	Tune-up limit (dBm)	
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.79	23.95	23.91	25	
3	QPSK	1	8	23.84	23.87	23.76		
3	QPSK	1	14	23.76	23.83	23.58		
3	QPSK	8	0	22.94	23.02	22.88	24	
3	QPSK	8	4	23.01	22.98	22.93		
3	QPSK	8	7	22.93	22.89	22.92		
3	QPSK	15	0	22.82	22.84	22.81	24	
3	16QAM	1	0	22.91	22.81	22.77		
3	16QAM	1	8	22.90	23.08	22.94		
3	16QAM	1	14	22.87	22.88	22.80	23	
3	16QAM	8	0	21.86	21.77	21.74		
3	16QAM	8	4	21.78	21.74	21.71		
3	16QAM	8	7	21.86	21.82	21.77	23	
3	16QAM	15	0	21.90	21.76	21.73		
3	64QAM	1	0	21.92	21.99	21.88		
3	64QAM	1	8	21.79	21.77	21.83	22	
3	64QAM	1	14	21.94	21.74	21.90		
3	64QAM	8	0	20.89	20.82	20.77		
3	64QAM	8	4	20.97	20.77	20.82	19.5	
3	64QAM	8	7	20.81	20.82	20.77		
3	64QAM	15	0	20.82	20.79	20.81		
3	256QAM	1	0	18.31	18.38	18.27	19.5	
3	256QAM	1	8	18.18	18.16	18.22		
3	256QAM	1	14	18.33	18.13	18.29		
3	256QAM	8	0	18.28	18.21	18.16	19.5	
3	256QAM	8	4	18.36	18.16	18.21		
3	256QAM	8	7	18.20	18.21	18.16		
3	256QAM	15	0	18.21	18.18	18.20		
Channel				20407	20525	20643	Tune-up limit (dBm)	
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.70	23.86	23.82	25	
1.4	QPSK	1	3	23.75	23.78	23.67		
1.4	QPSK	1	5	23.67	23.74	23.49		
1.4	QPSK	3	0	22.85	22.93	22.79		
1.4	QPSK	3	1	22.92	22.89	22.84		
1.4	QPSK	3	3	22.84	22.80	22.83		

Band 12 (700MHz Low Band) (dBm)_Ant 0							
Part 27F(only on channel required)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	25
10	QPSK	1	0	24.05	24.11	23.96	
10	QPSK	1	25	23.98	24.01	23.90	
10	QPSK	1	49	23.90	23.97	23.72	24
10	QPSK	25	0	23.08	23.16	23.02	
10	QPSK	25	12	23.15	23.12	23.07	
10	QPSK	25	25	23.07	23.03	23.06	24
10	QPSK	50	0	22.96	22.98	22.95	
10	16QAM	1	0	23.05	22.95	22.91	
10	16QAM	1	25	23.04	23.22	23.08	24
10	16QAM	1	49	23.01	23.02	22.94	
10	16QAM	25	0	22.00	21.91	21.88	
10	16QAM	25	12	21.92	21.88	21.85	23
10	16QAM	25	25	22.00	21.96	21.91	
10	16QAM	50	0	22.04	21.90	21.87	
10	64QAM	1	0	22.06	22.13	22.02	23
10	64QAM	1	25	21.93	21.91	21.97	
10	64QAM	1	49	22.08	21.88	22.04	
10	64QAM	25	0	21.03	20.96	20.91	22
10	64QAM	25	12	21.11	20.91	20.96	
10	64QAM	25	25	20.95	20.96	20.91	
10	64QAM	50	0	20.96	20.93	20.95	20
10	256QAM	1	0	18.84	18.91	18.80	
10	256QAM	1	25	18.71	18.69	18.75	
10	256QAM	1	49	18.86	18.66	18.82	20
10	256QAM	25	0	18.81	18.74	18.69	
10	256QAM	25	12	18.89	18.69	18.74	
10	256QAM	25	25	18.73	18.74	18.69	20
10	256QAM	50	0	18.74	18.71	18.73	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.88	23.94	23.79	25
5	QPSK	1	12	23.81	23.84	23.73	
5	QPSK	1	24	23.73	23.80	23.55	
5	QPSK	12	0	22.91	22.99	22.85	24
5	QPSK	12	7	22.98	22.95	22.90	
5	QPSK	12	13	22.90	22.86	22.89	
5	QPSK	25	0	22.79	22.81	22.78	24
5	16QAM	1	0	22.88	22.78	22.92	
5	16QAM	1	12	22.87	23.05	22.91	
5	16QAM	1	24	22.84	22.85	22.77	23
5	16QAM	12	0	21.83	21.74	21.95	
5	16QAM	12	7	21.75	21.71	21.68	
5	16QAM	12	13	21.83	21.79	21.74	23
5	16QAM	25	0	21.87	21.73	21.70	
5	64QAM	1	0	21.89	21.96	21.85	23
5	64QAM	1	12	21.76	21.74	21.80	
5	64QAM	1	24	21.91	21.71	21.87	
5	64QAM	12	0	20.86	20.93	20.74	22
5	64QAM	12	7	20.94	20.74	20.79	
5	64QAM	12	13	20.78	20.79	20.74	
5	64QAM	25	0	20.79	20.76	20.78	20
5	256QAM	1	0	18.77	18.84	18.73	
5	256QAM	1	12	18.64	18.62	18.68	
5	256QAM	1	24	18.79	18.59	18.75	20
5	256QAM	12	0	18.74	18.91	18.62	
5	256QAM	12	7	18.82	18.62	18.67	
5	256QAM	12	13	18.66	18.67	18.62	20
5	256QAM	25	0	18.67	18.64	18.66	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.79	23.85	23.70	25
3	QPSK	1	8	23.72	23.75	23.64	
3	QPSK	1	14	23.64	23.71	23.46	
3	QPSK	8	0	22.82	22.90	22.76	24
3	QPSK	8	4	22.89	22.86	22.81	
3	QPSK	8	7	22.81	22.77	22.80	
3	QPSK	15	0	22.70	22.72	22.69	24
3	16QAM	1	0	22.79	22.69	22.65	
3	16QAM	1	8	22.78	22.96	22.82	
3	16QAM	1	14	22.75	22.76	22.68	23
3	16QAM	8	0	21.74	21.89	21.62	
3	16QAM	8	4	21.66	21.62	21.59	
3	16QAM	8	7	21.74	21.70	21.65	23
3	16QAM	15	0	21.78	21.64	21.61	
3	64QAM	1	0	21.80	21.87	21.76	
3	64QAM	1	8	21.67	21.65	21.71	23
3	64QAM	1	14	21.82	21.62	21.78	
3	64QAM	8	0	20.77	20.96	20.65	
3	64QAM	8	4	20.85	20.65	20.70	22
3	64QAM	8	7	20.69	20.70	20.65	
3	64QAM	15	0	20.70	20.67	20.69	
3	256QAM	1	0	18.68	18.81	18.64	20
3	256QAM	1	8	18.55	18.53	18.59	
3	256QAM	1	14	18.70	18.50	18.66	
3	256QAM	8	0	18.65	18.90	18.53	20
3	256QAM	8	4	18.73	18.53	18.58	
3	256QAM	8	7	18.57	18.58	18.53	
3	256QAM	15	0	18.58	18.55	18.57	25
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.70	23.86	23.61	25
1.4	QPSK	1	3	23.63	23.66	23.55	
1.4	QPSK	1	5	23.55	23.62	23.37	
1.4	QPSK	3	0	22.73	22.81	22.67	
1.4	QPSK	3	1	22.80	22.77	22.72	
1.4	QPSK	3	3	22.72	22.68	22.71	

1.4	QPSK	6	0	22.73	22.75	22.72	24
1.4	16QAM	1	0	22.82	22.72	22.68	24
1.4	16QAM	1	3	22.81	22.99	22.85	
1.4	16QAM	1	5	22.78	22.79	22.71	
1.4	16QAM	3	0	21.77	21.68	21.65	
1.4	16QAM	3	1	21.69	21.65	21.62	
1.4	16QAM	3	3	21.77	21.73	21.68	23
1.4	16QAM	6	0	21.81	21.67	21.64	
1.4	64QAM	1	0	21.83	21.90	21.79	23
1.4	64QAM	1	3	21.70	21.68	21.74	
1.4	64QAM	1	5	21.85	21.65	21.81	
1.4	64QAM	3	0	20.80	20.73	20.68	
1.4	64QAM	3	1	20.88	20.68	20.73	
1.4	64QAM	3	3	20.72	20.73	20.68	22
1.4	64QAM	6	0	20.73	20.70	20.92	
1.4	256QAM	1	0	18.22	18.29	18.18	19.5
1.4	256QAM	1	3	18.09	18.07	18.13	
1.4	256QAM	1	5	18.24	18.04	18.20	
1.4	256QAM	3	0	18.19	18.12	18.07	
1.4	256QAM	3	1	18.27	18.07	18.12	
1.4	256QAM	3	3	18.11	18.12	18.07	19.5
1.4	256QAM	6	0	18.12	18.35	18.11	

1.4	QPSK	6	0	22.61	22.90	22.60	24
1.4	16QAM	1	0	22.70	22.95	22.56	24
1.4	16QAM	1	3	22.69	22.87	22.73	
1.4	16QAM	1	5	22.66	22.67	22.59	
1.4	16QAM	3	0	21.65	21.56	21.53	
1.4	16QAM	3	1	21.57	21.53	21.50	
1.4	16QAM	3	3	21.65	21.61	21.56	23
1.4	16QAM	6	0	21.69	21.93	21.52	
1.4	64QAM	1	0	21.71	21.78	21.67	23
1.4	64QAM	1	3	21.58	21.56	21.62	
1.4	64QAM	1	5	21.73	21.53	21.69	
1.4	64QAM	3	0	20.68	20.61	20.56	
1.4	64QAM	3	1	20.76	20.56	20.61	
1.4	64QAM	3	3	20.60	20.61	20.56	22
1.4	64QAM	6	0	20.61	20.89	20.60	
1.4	256QAM	1	0	18.59	18.91	18.55	20
1.4	256QAM	1	3	18.46	18.44	18.50	
1.4	256QAM	1	5	18.61	18.41	18.57	
1.4	256QAM	3	0	18.56	18.49	18.44	
1.4	256QAM	3	1	18.64	18.44	18.49	
1.4	256QAM	3	3	18.48	18.49	18.44	20
1.4	256QAM	6	0	18.49	18.92	18.48	

Band 14 (700MHz Band) (dBm)_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			25
Frequency (MHz)				793			
10	QPSK	1	0		24.05		25
10	QPSK	1	25		24.00		
10	QPSK	1	49		23.90		
10	QPSK	25	0		23.08		
10	QPSK	25	12		23.00		24
10	QPSK	25	25		23.01		
10	QPSK	50	0		23.02		
10	16QAM	1	0		23.17		
10	16QAM	1	25		23.14		24
10	16QAM	1	49		23.25		
10	16QAM	25	0		22.11		
10	16QAM	25	12		22.11		
10	16QAM	25	25		22.03		23
10	16QAM	50	0		22.07		
10	64QAM	1	0		22.19		
10	64QAM	1	25		22.28		
10	64QAM	1	49		22.22		23
10	64QAM	25	0		21.09		
10	64QAM	25	12		21.06		
10	64QAM	25	25		21.10		
10	64QAM	50	0		21.01		22
10	256QAM	1	0		19.08		
10	256QAM	1	25		19.17		
10	256QAM	1	49		19.11		
10	256QAM	25	0		18.98		20
10	256QAM	25	12		18.95		
10	256QAM	25	25		18.99		
10	256QAM	50	0		18.90		
Channel				23305	23330	23355	25
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.80	23.81	23.78	25
5	QPSK	1	12	23.75	23.71	23.77	
5	QPSK	1	24	23.62	23.59	23.68	
5	QPSK	12	0	22.85	22.81	22.82	
5	QPSK	12	7	22.80	22.77	22.80	24
5	QPSK	12	13	22.79	22.77	22.71	
5	QPSK	25	0	22.71	22.77	22.71	
5	16QAM	1	0	22.94	22.95	22.94	
5	16QAM	1	12	22.85	22.91	22.85	24
5	16QAM	1	24	22.98	22.95	22.96	
5	16QAM	12	0	21.85	21.86	21.88	
5	16QAM	12	7	21.81	21.82	21.84	
5	16QAM	12	13	21.74	21.77	21.80	23
5	16QAM	25	0	21.83	21.76	21.83	
5	64QAM	1	0	21.96	21.90	21.96	
5	64QAM	1	12	21.98	22.03	22.05	
5	64QAM	1	24	21.91	21.94	21.91	23
5	64QAM	12	0	21.87	21.87	21.78	
5	64QAM	12	7	21.80	21.75	21.82	
5	64QAM	12	13	21.87	21.85	21.82	
5	64QAM	25	0	21.74	21.77	21.76	22
5	256QAM	1	0	18.77	18.92	18.85	
5	256QAM	1	12	18.91	18.89	18.90	
5	256QAM	1	24	18.83	18.80	18.80	
5	256QAM	12	0	18.69	18.95	18.67	20
5	256QAM	12	7	18.68	18.72	18.70	
5	256QAM	12	13	18.74	18.76	18.74	
5	256QAM	25	0	18.65	18.68	18.65	

Band 17 (700MHz Band) (dBm)_Ant 0
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	25
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.01	24.06	24.03	25
10	QPSK	1	25	23.89	23.92	23.89	
10	QPSK	1	49	23.81	23.87	23.89	
10	QPSK	25	0	23.00	23.00	23.01	
10	QPSK	25	12	22.94	22.98	22.94	24
10	QPSK	25	25	22.97	22.93	22.93	
10	QPSK	50	0	22.98	22.98	22.93	
10	16QAM	1	0	23.11	23.26	22.95	
10	16QAM	1	25	22.90	22.97	23.01	24
10	16QAM	1	49	23.09	23.10	23.14	
10	16QAM	25	0	22.01	22.06	21.92	
10	16QAM	25	12	22.07	22.05	22.07	
10	16QAM	25	25	22.06	21.99	21.98	23
10	16QAM	50	0	21.93	21.96	21.96	
10	64QAM	1	0	21.95	22.18	22.03	
10	64QAM	1	25	22.18	22.22	22.11	
10	64QAM	1	49	22.07	22.05	22.02	23
10	64QAM	25	0	20.91	21.03	20.91	
10	64QAM	25	12	20.92	21.00	20.96	
10	64QAM	25	25	20.97	21.02	21.02	
10	64QAM	50	0	20.98	20.94	20.97	22
10	256QAM	1	0	18.53	18.76	18.62	
10	256QAM	1	25	18.77	18.84	18.71	
10	256QAM	1	49	18.66	18.62	18.61	
10	256QAM	25	0	18.50	18.64	18.52	20
10	256QAM	25	12	18.49	18.55	18.57	
10	256QAM	25	25	18.61	18.64	18.60	
10	256QAM	50	0	18.54	18.50	18.54	
Channel				23755	23790	23825	25
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.79	23.94	23.91	25
5	QPSK	1	12	23.77	23.84	23.82	
5	QPSK	1	24	23.74	23.80	23.81	
5	QPSK	12	0	22.92	22.89	22.92	
5	QPSK	12	7	22.83	22.89	22.84	24
5	QPSK	12	13	22.86	22.85	22.83	
5	QPSK	25	0	22.92	22.87	22.87	
5	16QAM	1	0	23.01	23.17	22.87	
5	16QAM	1	12	22.78	22.88	22.90	24
5	16QAM	1	24	23.01	23.00	23.08	
5	16QAM	12	0	21.90	21.95	21.85	
5	16QAM	12	7	21.96	21.98	21.97	
5	16QAM	12	13	21.95	21.90	21.88	23
5	16QAM	25	0	21.83	21.85	21.90	
5	64QAM	1	0	21.83	22.10	21.97	
5	64QAM	1	12	22.11	22.10	22.01	
5	64QAM	1	24	22.00	21.97	21.91	22
5	64QAM	12	0	20.85	20.96	20.80	
5	64QAM	12	7	20.82	20.90	20.86	
5	64QAM	12	13	20.87	20.93	20.92	
5	64QAM	25	0	20.88	20.87	20.89	20
5	256QAM	1	0	18.43	18.69	18.54	
5	256QAM	1	12	18.70	18.73	18.62	
5	256QAM	1	24	18.58	18.56	18.54	
5	256QAM	12	0	18.43	18.52	18.43	20
5	256QAM	12	7	18.38	18.49	18.50	
5	256QAM	12	13	18.49	18.56	18.54	
5	256QAM	25	0	18.47	18.44	18.45	

Band 25 (1900MHz Band) (dBm)_Ant 0 Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	23.35	23.47	23.42	24.5
20	QPSK	1	49	23.33	23.30	23.27	
20	QPSK	1	99	23.31	23.22	23.20	
20	QPSK	50	0	22.48	22.49	22.46	23.5
20	QPSK	50	24	22.45	22.41	22.43	
20	QPSK	50	50	22.44	22.35	22.37	
20	QPSK	100	0	22.43	22.44	22.43	23.5
20	16QAM	1	0	22.36	22.36	22.38	
20	16QAM	1	49	22.45	22.42	22.41	
20	16QAM	1	99	22.27	22.39	22.40	22.5
20	16QAM	50	0	21.48	21.33	21.34	
20	16QAM	50	24	21.38	21.37	21.27	
20	16QAM	50	50	21.33	21.31	21.32	22.5
20	16QAM	100	0	21.32	21.41	21.31	
20	64QAM	1	0	21.39	21.40	21.33	
20	64QAM	1	49	21.34	21.36	21.43	21.5
20	64QAM	1	99	21.41	21.38	21.36	
20	64QAM	50	0	20.37	20.32	20.35	
20	64QAM	50	24	20.37	20.43	20.34	19.5
20	64QAM	50	50	20.28	20.34	20.28	
20	64QAM	100	0	20.43	20.42	20.22	
20	256QAM	1	0	18.46	18.47	18.40	19.5
20	256QAM	1	49	18.41	18.43	18.50	
20	256QAM	1	99	18.48	18.45	18.43	
20	256QAM	50	0	18.44	18.39	18.42	19.5
20	256QAM	50	24	18.44	18.50	18.41	
20	256QAM	50	50	18.35	18.41	18.35	
20	256QAM	100	0	18.50	18.49	18.29	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	23.27	23.39	23.34	24.5
15	QPSK	1	37	23.25	23.22	23.19	
15	QPSK	1	74	23.23	23.14	23.12	
15	QPSK	36	0	22.40	22.41	22.38	23.5
15	QPSK	36	20	22.37	22.33	22.35	
15	QPSK	36	39	22.36	22.27	22.29	
15	QPSK	75	0	22.35	22.36	22.35	23.5
15	16QAM	1	0	22.28	22.28	22.30	
15	16QAM	1	37	22.37	22.34	22.33	
15	16QAM	1	74	22.19	22.31	22.32	22.5
15	16QAM	36	0	21.40	21.25	21.26	
15	16QAM	36	20	21.30	21.29	21.19	
15	16QAM	36	39	21.25	21.23	21.24	22.5
15	16QAM	75	0	21.24	21.33	21.23	
15	64QAM	1	0	21.31	21.32	21.25	
15	64QAM	1	37	21.26	21.28	21.35	21.5
15	64QAM	1	74	21.33	21.30	21.28	
15	64QAM	36	0	20.29	20.24	20.27	
15	64QAM	36	20	20.29	20.35	20.26	19.5
15	64QAM	36	39	20.20	20.26	20.20	
15	64QAM	75	0	20.35	20.34	20.14	
15	256QAM	1	0	18.38	18.39	18.32	19.5
15	256QAM	1	37	18.33	18.35	18.42	
15	256QAM	1	74	18.40	18.37	18.35	
15	256QAM	36	0	18.36	18.31	18.34	19.5
15	256QAM	36	20	18.36	18.42	18.33	
15	256QAM	36	39	18.27	18.33	18.27	
15	256QAM	75	0	18.42	18.41	18.21	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	23.18	23.30	23.25	24.5
10	QPSK	1	25	23.16	23.13	23.10	
10	QPSK	1	49	23.14	23.05	23.03	
10	QPSK	25	0	22.31	22.32	22.29	23.5
10	QPSK	25	12	22.28	22.24	22.26	
10	QPSK	25	25	22.27	22.18	22.20	
10	QPSK	50	0	22.26	22.27	22.26	23.5
10	16QAM	1	0	22.19	22.19	22.21	
10	16QAM	1	25	22.28	22.25	22.24	
10	16QAM	1	49	22.10	22.22	22.23	22.5
10	16QAM	25	0	21.31	21.16	21.17	
10	16QAM	25	12	21.21	21.20	21.10	
10	16QAM	25	25	21.16	21.14	21.15	22.5
10	16QAM	50	0	21.15	21.24	21.14	
10	64QAM	1	0	21.22	21.23	21.16	
10	64QAM	1	25	21.17	21.19	21.26	21.5
10	64QAM	1	49	21.24	21.21	21.19	
10	64QAM	25	0	20.20	20.15	20.18	
10	64QAM	25	12	20.20	20.26	20.17	19.5
10	64QAM	25	25	20.11	20.17	20.11	
10	64QAM	50	0	20.26	20.25	20.05	
10	256QAM	1	0	18.29	18.30	18.23	19.5
10	256QAM	1	25	18.24	18.26	18.33	
10	256QAM	1	49	18.31	18.28	18.26	
10	256QAM	25	0	18.27	18.22	18.25	19.5
10	256QAM	25	12	18.27	18.33	18.24	
10	256QAM	25	25	18.18	18.24	18.18	
10	256QAM	50	0	18.33	18.32	18.12	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	23.14	23.26	23.21	24.5
5	QPSK	1	12	23.12	23.09	23.06	
5	QPSK	1	24	23.10	23.01	22.99	
5	QPSK	12	0	22.27	22.28	22.25	23.5
5	QPSK	12	7	22.24	22.20	22.22	
5	QPSK	12	13	22.23	22.14	22.16	

Band 30 (dBm)_Ant 0&Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		23.02		24
10	QPSK	1	25		22.93		
10	QPSK	1	49		22.93		
10	QPSK	25	0		22.06		23
10	QPSK	25	12		22.02		
10	QPSK	25	25		22.01		
10	QPSK	50	0		22.03		23
10	16QAM	1	0		22.22		
10	16QAM	1	25		22.19		
10	16QAM	1	49		22.26		22
10	16QAM	25	0		21.08		
10	16QAM	25	12		21.03		
10	16QAM	25	25		21.04		22
10	16QAM	50	0		21.01		
10	64QAM	1	0		21.28		
10	64QAM	1	25		21.02		22
10	64QAM	1	49		21.18		
10	64QAM	25	0		20.12		
10	64QAM	25	12		20.07		21
10	64QAM	25	25		20.02		
10	64QAM	50	0		20.04		
10	256QAM	1	0		17.97		19
10	256QAM	1	25		17.71		
10	256QAM	1	49		17.87		
10	256QAM	25	0		17.95		19
10	256QAM	25	12		17.75		
10	256QAM	25	25		17.70		
10	256QAM	50	0		17.72		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.86	22.96	22.85	24
5	QPSK	1	12	22.77	22.77	22.80	
5	QPSK	1	24	22.81	22.75	22.82	
5	QPSK	12	0	21.87	21.96	21.88	23
5	QPSK	12	7	21.93	21.86	21.88	
5	QPSK	12	13	21.91	21.87	21.90	
5	QPSK	25	0	21.79	21.86	21.89	23
5	16QAM	1	0	22.12	22.06	22.12	
5	16QAM	1	12	22.07	22.03	22.07	
5	16QAM	1	24	22.10	22.11	22.16	22
5	16QAM	12	0	20.92	20.91	20.99	
5	16QAM	12	7	20.88	20.88	20.92	
5	16QAM	12	13	20.87	20.95	20.85	22
5	16QAM	25	0	20.85	20.87	20.86	
5	64QAM	1	0	21.14	21.16	21.10	
5	64QAM	1	12	20.88	20.83	20.92	22
5	64QAM	1	24	21.09	21.04	21.05	
5	64QAM	12	0	20.02	19.95	19.94	
5	64QAM	12	7	19.98	19.96	19.98	21
5	64QAM	12	13	19.91	19.89	19.82	
5	64QAM	25	0	19.92	19.84	19.86	
5	256QAM	1	0	17.89	17.95	17.87	19
5	256QAM	1	12	17.70	17.69	17.68	
5	256QAM	1	24	17.85	17.83	17.81	
5	256QAM	12	0	17.69	17.75	17.71	19
5	256QAM	12	7	17.69	17.70	17.72	
5	256QAM	12	13	17.59	17.60	17.64	
5	256QAM	25	0	17.63	17.65	17.71	

5	QPSK	25	0	22.22	22.23	22.22	23.5
5	16QAM	1	0	22.15	22.15	22.17	
5	16QAM	1	12	22.24	22.21	22.20	
5	16QAM	1	24	22.06	22.18	22.19	
5	16QAM	12	0	21.27	21.12	21.13	22.5
5	16QAM	12	7	21.17	21.16	21.06	
5	16QAM	12	13	21.12	21.10	21.11	
5	16QAM	25	0	21.11	21.20	21.10	
5	64QAM	1	0	21.18	21.19	21.12	22.5
5	64QAM	1	12	21.13	21.15	21.22	
5	64QAM	1	24	21.20	21.17	21.15	
5	64QAM	12	0	20.16	20.11	20.14	
5	64QAM	12	7	20.16	20.22	20.13	21.5
5	64QAM	12	13	20.07	20.13	20.07	
5	64QAM	25	0	20.22	20.21	20.01	
5	256QAM	1	0	18.25	18.26	18.19	
5	256QAM	1	12	18.20	18.22	18.29	19.5
5	256QAM	1	24	18.27	18.24	18.22	
5	256QAM	12	0	18.23	18.18	18.21	
5	256QAM	12	7	18.23	18.29	18.20	
5	256QAM	12	13	18.14	18.20	18.14	19.5
5	256QAM	25	0	18.29	18.28	18.08	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	23.05	23.17	23.12	24.5
3	QPSK	1	8	23.03	23.00	22.97	
3	QPSK	1	14	23.01	22.92	22.90	
3	QPSK	8	0	22.18	22.19	22.16	
3	QPSK	8	4	22.15	22.11	22.13	23.5
3	QPSK	8	7	22.14	22.05	22.07	
3	QPSK	15	0	22.13	22.14	22.13	
3	16QAM	1	0	22.06	22.06	22.08	
3	16QAM	1	8	22.15	22.12	22.11	23.5
3	16QAM	1	14	21.97	22.09	22.10	
3	16QAM	8	0	21.18	21.03	21.04	
3	16QAM	8	4	21.06	21.07	20.97	
3	16QAM	8	7	21.03	21.01	21.02	22.5
3	16QAM	15	0	21.02	21.11	21.01	
3	64QAM	1	0	21.09	21.10	21.03	
3	64QAM	1	8	21.04	21.06	21.13	
3	64QAM	1	14	21.11	21.08	21.06	21.5
3	64QAM	8	0	20.07	20.02	20.05	
3	64QAM	8	4	20.07	20.13	20.04	
3	64QAM	8	7	19.98	20.04	19.98	
3	64QAM	15	0	20.13	20.12	19.92	19.5
3	256QAM	1	0	18.16	18.17	18.10	
3	256QAM	1	8	18.11	18.13	18.20	
3	256QAM	1	14	18.18	18.15	18.13	
3	256QAM	8	0	18.14	18.09	18.12	19.5
3	256QAM	8	4	18.14	18.20	18.11	
3	256QAM	8	7	18.05	18.11	18.05	
3	256QAM	15	0	18.20	18.19	17.99	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	23.08	23.20	23.15	24.5
1.4	QPSK	1	3	23.06	23.03	23.00	
1.4	QPSK	1	5	23.04	22.95	22.93	
1.4	QPSK	3	0	22.21	22.22	22.19	
1.4	QPSK	3	1	22.18	22.14	22.16	
1.4	QPSK	3	3	22.17	22.08	22.10	
1.4	QPSK	6	0	22.16	22.17	22.16	23.5
1.4	16QAM	1	0	22.09	22.09	22.11	
1.4	16QAM	1	3	22.18	22.15	22.14	22.5
1.4	16QAM	1	5	22.00	22.12	22.13	
1.4	16QAM	3	0	21.21	21.06	21.07	
1.4	16QAM	3	1	21.11	21.10	21.00	
1.4	16QAM	3	3	21.06	21.04	21.05	
1.4	16QAM	6	0	21.05	21.14	21.04	
1.4	64QAM	1	0	21.12	21.13	21.06	22.5
1.4	64QAM	1	3	21.07	21.09	21.16	
1.4	64QAM	1	5	21.14	21.11	21.09	
1.4	64QAM	3	0	21.10	21.05	21.08	
1.4	64QAM	3	1	21.10	21.16	21.07	
1.4	64QAM	3	3	21.01	21.07	21.01	
1.4	64QAM	6	0	20.16	20.25	19.95	21.5
1.4	256QAM	1	0	18.19	18.20	18.13	
1.4	256QAM	1	3	18.14	18.16	18.23	19.5
1.4	256QAM	1	5	18.21	18.18	18.16	
1.4	256QAM	3	0	18.17	18.12	18.15	
1.4	256QAM	3	1	18.17	18.23	18.14	
1.4	256QAM	3	3	18.08	18.14	18.08	
1.4	256QAM	6	0	18.23	18.22	18.02	

Band 41 (2496~2690MHz) (dBm)_ANT4									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.01	22.98	23.09	22.85	23.05	24
20	QPSK	1	49	22.97	23.04	22.87	22.89	22.85	
20	QPSK	1	99	23.06	22.91	23.02	22.92	22.84	
20	QPSK	50	0	22.29	22.24	22.30	22.15	22.27	23
20	QPSK	50	24	22.25	22.22	22.16	22.01	21.98	
20	QPSK	50	50	22.27	22.16	22.12	21.95	21.85	
20	QPSK	100	0	22.26	22.22	22.17	22.07	21.95	23
20	16QAM	1	0	22.34	22.36	22.30	22.24	22.25	
20	16QAM	1	49	22.27	22.14	22.24	22.17	22.20	
20	16QAM	1	99	22.20	22.06	22.29	22.15	22.17	22
20	16QAM	50	0	21.35	21.31	21.17	21.11	21.02	
20	16QAM	50	24	21.29	21.14	21.20	21.08	21.05	
20	16QAM	50	50	21.26	21.02	21.05	20.97	21.01	22
20	16QAM	100	0	21.17	21.14	21.20	21.14	21.15	
20	64QAM	1	0	21.25	21.32	21.23	21.13	21.17	
20	64QAM	1	49	21.24	20.96	21.14	21.05	21.07	22
20	64QAM	1	99	21.18	21.09	21.18	21.09	21.12	
20	64QAM	50	0	20.30	20.24	20.11	20.04	19.88	21
20	64QAM	50	24	20.20	20.15	20.14	20.02	20.06	
20	64QAM	50	50	20.07	20.08	20.09	19.98	20.00	
20	64QAM	100	0	20.26	20.21	20.25	20.16	20.15	19
20	256QAM	1	0	18.05	18.12	18.03	17.93	17.97	
20	256QAM	1	49	18.04	17.76	17.94	17.85	17.87	
20	256QAM	1	99	17.98	17.89	17.98	17.89	17.92	19
20	256QAM	50	0	18.10	18.04	17.91	17.84	17.68	
20	256QAM	50	24	18.00	17.95	17.94	17.82	17.86	
20	256QAM	50	50	17.87	17.88	17.89	17.78	17.80	19
20	256QAM	100	0	18.06	18.01	18.05	17.96	17.95	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.83	22.80	22.91	22.67	22.87	24
15	QPSK	1	37	22.79	22.86	22.90	22.71	22.67	
15	QPSK	1	74	22.88	22.73	22.84	22.74	22.66	
15	QPSK	36	0	22.11	22.06	22.12	21.97	22.09	23
15	QPSK	36	20	22.07	22.04	21.98	21.83	21.80	
15	QPSK	36	39	22.09	21.98	21.94	21.77	21.67	
15	QPSK	75	0	22.08	22.04	21.99	21.89	21.77	23
15	16QAM	1	0	22.16	22.18	22.12	22.06	22.07	
15	16QAM	1	37	22.09	21.96	22.06	21.99	22.02	
15	16QAM	1	74	22.02	21.88	22.11	21.97	21.99	22
15	16QAM	36	0	21.17	21.13	20.99	20.93	20.84	
15	16QAM	36	20	21.11	20.96	21.02	20.90	20.87	
15	16QAM	36	39	21.08	20.84	20.87	20.79	20.83	22
15	16QAM	75	0	20.99	20.96	21.02	20.96	20.97	
15	64QAM	1	0	21.07	21.14	21.05	20.95	20.99	22
15	64QAM	1	37	21.06	20.78	20.96	20.87	20.89	
15	64QAM	1	74	21.00	20.91	21.00	20.91	20.94	
15	64QAM	36	0	20.12	20.06	19.93	19.86	19.70	21
15	64QAM	36	20	20.02	19.97	19.96	19.84	19.88	
15	64QAM	36	39	19.89	19.90	19.91	19.80	19.82	
15	64QAM	75	0	20.08	20.03	20.07	19.98	19.97	19
15	256QAM	1	0	17.87	17.94	17.85	17.75	17.79	
15	256QAM	1	37	17.86	17.58	17.76	17.67	17.69	
15	256QAM	1	74	17.80	17.71	17.80	17.71	17.74	19
15	256QAM	36	0	17.92	17.86	17.73	17.66	17.50	
15	256QAM	36	20	17.82	17.77	17.76	17.64	17.68	
15	256QAM	36	39	17.69	17.70	17.71	17.60	17.62	19
15	256QAM	75	0	17.88	17.83	17.87	17.78	17.77	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.83	22.78	22.93	22.76	22.72	24
10	QPSK	1	25	22.75	22.80	22.69	22.75	22.71	
10	QPSK	1	49	22.88	22.72	22.78	22.76	22.73	
10	QPSK	25	0	22.11	22.03	22.08	21.96	21.82	23
10	QPSK	25	12	22.10	21.99	22.01	21.85	21.74	
10	QPSK	25	25	22.12	21.93	21.96	21.78	21.69	
10	QPSK	50	0	22.08	22.00	22.02	21.84	21.76	23
10	16QAM	1	0	22.16	22.11	22.07	21.98	22.04	
10	16QAM	1	25	22.07	21.97	22.00	21.99	21.97	
10	16QAM	1	49	22.03	21.86	22.14	21.97	21.97	22
10	16QAM	25	0	21.10	21.13	20.95	20.92	20.79	
10	16QAM	25	12	21.12	20.96	21.01	20.90	20.80	
10	16QAM	25	25	21.05	20.81	20.84	20.82	20.77	22
10	16QAM	50	0	20.93	20.94	21.02	20.97	20.99	
10	64QAM	1	0	21.06	21.11	20.99	20.92	20.97	

10	64QAM	1	25	21.07	20.72	20.92	20.86	20.84	22
10	64QAM	1	49	20.92	20.87	20.96	20.94	20.88	
10	64QAM	25	0	20.05	20.07	19.87	19.83	19.73	21
10	64QAM	25	12	20.02	19.94	19.90	19.86	19.90	
10	64QAM	25	25	19.92	19.83	19.92	19.81	19.79	
10	64QAM	50	0	20.11	20.05	20.07	19.92	19.97	
10	256QAM	1	0	18.24	18.32	18.27	18.07	18.16	19
10	256QAM	1	25	18.24	17.96	18.08	18.07	18.06	
10	256QAM	1	49	18.20	18.13	18.14	18.08	18.07	
10	256QAM	25	0	18.32	18.25	18.06	18.01	17.88	19
10	256QAM	25	12	18.20	18.20	18.17	17.98	18.01	
10	256QAM	25	25	18.12	18.04	18.05	17.92	17.97	
10	256QAM	50	0	18.25	18.23	18.24	18.17	18.17	
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	22.64	22.59	22.74	22.57	22.53	24
5	QPSK	1	12	22.56	22.61	22.50	22.56	22.52	
5	QPSK	1	24	22.69	22.53	22.59	22.57	22.54	
5	QPSK	12	0	21.92	21.84	21.89	21.77	21.63	
5	QPSK	12	7	21.91	21.80	21.82	21.66	21.55	23
5	QPSK	12	13	21.93	21.74	21.77	21.59	21.50	
5	QPSK	25	0	21.89	21.81	21.83	21.65	21.57	
5	16QAM	1	0	21.97	21.92	21.88	21.79	21.85	23
5	16QAM	1	12	21.88	21.78	21.81	21.80	21.78	
5	16QAM	1	24	21.84	21.67	21.95	21.78	21.78	
5	16QAM	12	0	20.91	20.94	20.76	20.73	20.60	22
5	16QAM	12	7	20.93	20.77	20.82	20.71	20.61	
5	16QAM	12	13	20.86	20.62	20.65	20.63	20.58	
5	16QAM	25	0	20.74	20.75	20.83	20.78	20.80	
5	64QAM	1	0	20.87	20.92	20.80	20.73	20.78	22
5	64QAM	1	12	20.88	20.53	20.73	20.67	20.65	
5	64QAM	1	24	20.73	20.68	20.77	20.75	20.69	
5	64QAM	12	0	19.86	19.88	19.68	19.64	19.54	21
5	64QAM	12	7	19.83	19.75	19.71	19.67	19.71	
5	64QAM	12	13	19.73	19.64	19.73	19.62	19.60	
5	64QAM	25	0	19.92	19.86	19.88	19.73	19.78	
5	256QAM	1	0	18.05	18.13	18.08	17.88	17.97	19
5	256QAM	1	12	18.05	17.77	17.89	17.88	17.87	
5	256QAM	1	24	18.01	17.94	17.95	17.89	17.88	
5	256QAM	12	0	18.13	18.06	17.87	17.82	17.69	
5	256QAM	12	7	18.01	18.01	17.98	17.79	17.82	19
5	256QAM	12	13	17.93	17.85	17.86	17.73	17.78	
5	256QAM	25	0	18.06	18.04	18.05	17.98	17.98	

Band 66 (dBm)_Ant 0&Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	23.45	23.47	23.42	24.5		
20	QPSK	1	49	23.22	23.34	23.19			
20	QPSK	1	99	23.30	23.30	23.27			
20	QPSK	50	0	22.42	22.47	22.45	23.5		
20	QPSK	50	24	22.35	22.43	22.42			
20	QPSK	50	50	22.46	22.41	22.43			
20	QPSK	100	0	22.42	22.47	22.44	23.5		
20	16QAM	1	0	22.72	22.67	22.69			
20	16QAM	1	49	22.59	22.68	22.45			
20	16QAM	1	99	22.53	22.60	22.68	22.5		
20	16QAM	50	0	21.39	21.32	21.31			
20	16QAM	50	24	21.51	21.46	21.34			
20	16QAM	50	50	21.44	21.43	21.40	22.5		
20	16QAM	100	0	21.45	21.42	21.32			
20	64QAM	1	0	21.68	21.65	21.66			
20	64QAM	1	49	21.56	21.66	21.40	22.5		
20	64QAM	1	99	21.47	21.60	21.61			
20	64QAM	50	0	20.36	20.31	20.31			
20	64QAM	50	24	20.43	20.41	20.33	21.5		
20	64QAM	50	50	20.36	20.37	20.37			
20	64QAM	100	0	20.47	20.36	20.25			
20	256QAM	1	0	18.57	18.52	18.59	19.5		
20	256QAM	1	49	18.40	18.57	18.30			
20	256QAM	1	99	18.42	18.49	18.57			
20	256QAM	50	0	18.22	18.15	18.16	19.5		
20	256QAM	50	24	18.32	18.36	18.17			
20	256QAM	50	50	18.35	18.28	18.26			
20	256QAM	100	0	18.31	18.34	18.17			
Channel				132047	132322	132597	Tune-up limit (dBm)		
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	23.26	23.28	23.23	24.5		
15	QPSK	1	37	23.03	23.15	23.00			
15	QPSK	1	74	23.11	23.11	23.08			
15	QPSK	36	0	22.23	22.28	22.26	23.5		
15	QPSK	36	20	22.16	22.24	22.23			
15	QPSK	36	39	22.27	22.22	22.24			
15	QPSK	75	0	22.23	22.28	22.25	23.5		
15	16QAM	1	0	22.53	22.48	22.50			
15	16QAM	1	37	22.40	22.49	22.26			
15	16QAM	1	74	22.34	22.41	22.49	22.5		
15	16QAM	36	0	21.20	21.13	21.12			
15	16QAM	36	20	21.32	21.27	21.15			
15	16QAM	36	39	21.25	21.24	21.21	22.5		
15	16QAM	75	0	21.26	21.23	21.13			
15	64QAM	1	0	21.49	21.46	21.47			
15	64QAM	1	37	21.37	21.47	21.21	22.5		
15	64QAM	1	74	21.28	21.41	21.42			
15	64QAM	36	0	20.17	20.12	20.12			
15	64QAM	36	20	20.24	20.22	20.14	21.5		
15	64QAM	36	39	20.17	20.18	20.18			
15	64QAM	75	0	20.28	20.17	20.06			
15	256QAM	1	0	18.38	18.33	18.40	19.5		
15	256QAM	1	37	18.21	18.38	18.11			
15	256QAM	1	74	18.23	18.30	18.38			
15	256QAM	36	0	18.03	17.96	17.97	19.5		
15	256QAM	36	20	18.13	18.17	17.98			
15	256QAM	36	39	18.16	18.09	18.07			
15	256QAM	75	0	18.12	18.15	17.98			
Channel				132022	132322	132622	Tune-up limit (dBm)		
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	23.19	23.21	23.16	24.5		
10	QPSK	1	25	22.96	23.08	22.93			
10	QPSK	1	49	23.04	23.04	23.01			
10	QPSK	25	0	22.16	22.21	22.19	23.5		
10	QPSK	25	12	22.09	22.17	22.16			
10	QPSK	25	25	22.20	22.15	22.17			
10	QPSK	50	0	22.16	22.21	22.18	23.5		
10	16QAM	1	0	22.46	22.41	22.43			
10	16QAM	1	25	22.33	22.42	22.19			
10	16QAM	1	49	22.27	22.34	22.42	22.5		
10	16QAM	25	0	21.13	21.06	21.05			
10	16QAM	25	12	21.25	21.20	21.08			
10	16QAM	25	25	21.18	21.17	21.14	22.5		
10	16QAM	50	0	21.19	21.16	21.06			
10	64QAM	1	0	21.42	21.39	21.40			
10	64QAM	1	25	21.30	21.40	21.14	22.5		
10	64QAM	1	49	21.21	21.34	21.35			
10	64QAM	25	0	20.10	20.05	20.05			
10	64QAM	25	12	20.17	20.15	20.07	21.5		
10	64QAM	25	25	20.10	20.11	20.11			
10	64QAM	50	0	20.21	20.10	19.99			
10	256QAM	1	0	18.31	18.26	18.33	19.5		
10	256QAM	1	25	18.14	18.31	18.04			
10	256QAM	1	49	18.16	18.23	18.31			
10	256QAM	25	0	17.96	18.21	17.90	19.5		
10	256QAM	25	12	18.06	18.10	17.91			
10	256QAM	25	25	18.09	18.02	18.00			
10	256QAM	50	0	18.05	18.08	17.91			
Channel				131997	132322	132647	Tune-up limit (dBm)		
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	23.13	23.15	23.10	24.5		
5	QPSK	1	12	22.90	23.02	22.87			
5	QPSK	1	24	22.98	22.98	22.95			
5	QPSK	12	0	22.10	22.15	22.13	23.5		
5	QPSK	12	7	22.03	22.11	22.10			
5	QPSK	12	13	22.14	22.09	22.11			

Band 71 (dBm)_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	23.85	23.89	23.82	25
20	QPSK	1	49	23.61	23.67	23.60	
20	QPSK	1	99	23.72	23.69	23.73	
20	QPSK	50	0	22.75	22.83	22.79	24
20	QPSK	50	24	22.68	22.71	22.75	
20	QPSK	50	50	22.79	22.82	22.80	
20	QPSK	100	0	22.74	22.84	22.76	24
20	16QAM	1	0	22.95	22.99	22.99	
20	16QAM	1	49	22.97	23.06	23.04	
20	16QAM	1	99	23.00	23.07	23.05	23
20	16QAM	50	0	21.67	21.71	21.76	
20	16QAM	50	24	21.82	21.84	21.81	
20	16QAM	50	50	21.81	21.86	21.83	23
20	16QAM	100	0	21.80	21.72	21.86	
20	64QAM	1	0	21.89	22.03	21.94	
20	64QAM	1	49	21.91	22.06	21.98	23
20	64QAM	1	99	22.01	22.12	22.02	
20	64QAM	50	0	21.02	21.06	21.16	
20	64QAM	50	24	21.23	21.23	21.22	22
20	64QAM	50	50	21.26	21.26	21.26	
20	64QAM	100	0	21.23	21.10	21.31	
20	256QAM	1	0	18.79	18.93	18.84	20
20	256QAM	1	49	18.81	18.96	18.88	
20	256QAM	1	99	18.91	19.02	18.92	
20	256QAM	50	0	18.52	18.56	18.66	20
20	256QAM	50	24	18.73	18.90	18.72	
20	256QAM	50	50	18.76	18.76	18.76	
20	256QAM	100	0	18.73	18.60	18.81	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.67	23.71	23.64	25
15	QPSK	1	37	23.43	23.49	23.42	
15	QPSK	1	74	23.54	23.51	23.55	
15	QPSK	36	0	22.57	22.65	22.61	24
15	QPSK	36	20	22.50	22.53	22.57	
15	QPSK	36	39	22.61	22.64	22.62	
15	QPSK	75	0	22.56	22.66	22.58	24
15	16QAM	1	0	22.77	22.81	22.81	
15	16QAM	1	37	22.79	22.88	22.86	
15	16QAM	1	74	22.82	22.89	22.87	23
15	16QAM	36	0	21.49	21.53	21.58	
15	16QAM	36	20	21.64	21.66	21.63	
15	16QAM	36	39	21.63	21.68	21.65	23
15	16QAM	75	0	21.62	21.54	21.68	
15	64QAM	1	0	21.71	21.85	21.76	
15	64QAM	1	37	21.73	21.88	21.80	23
15	64QAM	1	74	21.83	21.94	21.84	
15	64QAM	36	0	20.84	20.88	20.98	
15	64QAM	36	20	21.05	21.05	21.04	22
15	64QAM	36	39	21.08	21.08	21.08	
15	64QAM	75	0	21.05	20.92	21.13	
15	256QAM	1	0	18.61	18.75	18.66	20
15	256QAM	1	37	18.63	18.76	18.70	
15	256QAM	1	74	18.73	18.84	18.74	
15	256QAM	36	0	18.34	18.38	18.48	20
15	256QAM	36	20	18.55	18.72	18.54	
15	256QAM	36	39	18.58	18.58	18.58	
15	256QAM	75	0	18.55	18.42	18.63	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	23.65	23.69	23.62	25
10	QPSK	1	25	23.41	23.47	23.40	
10	QPSK	25	0	22.55	22.63	22.59	
10	QPSK	25	12	22.48	22.51	22.55	24
10	QPSK	25	25	22.59	22.62	22.60	
10	QPSK	50	0	22.54	22.64	22.56	
10	16QAM	1	0	22.75	22.79	22.79	24
10	16QAM	1	25	22.77	22.86	22.84	
10	16QAM	1	49	22.80	22.87	22.85	
10	16QAM	25	0	21.47	21.51	21.56	23
10	16QAM	25	12	21.62	21.64	21.61	
10	16QAM	25	25	21.61	21.66	21.63	
10	16QAM	50	0	21.60	21.52	21.68	23
10	64QAM	1	0	21.69	21.83	21.74	
10	64QAM	1	25	21.71	21.86	21.78	
10	64QAM	1	49	21.81	21.92	21.82	22
10	64QAM	25	0	20.82	20.86	20.96	
10	64QAM	25	12	21.03	21.03	21.02	
10	64QAM	25	25	21.06	21.06	21.06	20
10	64QAM	50	0	21.03	20.90	21.11	
10	256QAM	1	0	18.59	18.73	18.64	
10	256QAM	1	25	18.61	18.76	18.68	20
10	256QAM	1	49	18.71	18.82	18.72	
10	256QAM	25	0	18.32	18.36	18.46	
10	256QAM	25	12	18.53	18.70	18.52	20
10	256QAM	25	25	18.56	18.56	18.56	
10	256QAM	50	0	18.53	18.40	18.61	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	23.60	23.64	23.57	25
5	QPSK	1	12	23.36	23.42	23.35	
5	QPSK	1	24	23.47	23.44	23.48	
5	QPSK	12	0	22.50	22.58	22.54	24
5	QPSK	12	7	22.43	22.46	22.50	
5	QPSK	12	13	22.54	22.57	22.55	

5	QPSK	25	0	22.10	22.15	22.12	23.5
5	16QAM	1	0	22.40	22.35	22.37	
5	16QAM	1	12	22.27	22.36	22.13	
5	16QAM	1	24	22.21	22.28	22.36	
5	16QAM	12	0	21.07	21.00	20.99	22.5
5	16QAM	12	7	21.19	21.14	21.02	
5	16QAM	12	13	21.12	21.11	21.08	
5	16QAM	25	0	21.13	21.10	21.00	
5	64QAM	1	0	21.36	21.33	21.34	22.5
5	64QAM	1	12	21.24	21.34	21.08	
5	64QAM	1	24	21.15	21.28	21.29	
5	64QAM	12	0	20.04	19.99	19.99	
5	64QAM	12	7	20.11	20.09	20.01	21.5
5	64QAM	12	13	20.04	20.05	20.05	
5	64QAM	25	0	20.15	20.04	19.93	
5	256QAM	1	0	18.25	18.20	18.27	
5	256QAM	1	12	18.08	18.25	17.98	19.5
5	256QAM	1	24	18.10	18.17	18.25	
5	256QAM	12	0	17.90	18.15	17.84	
5	256QAM	12	7	18.00	18.04	17.85	
5	256QAM	12	13	18.03	17.96	17.94	19.5
5	256QAM	25	0	17.99	18.02	17.85	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.17	23.19	23.14	24.5
3	QPSK	1	8	22.94	23.06	22.91	
3	QPSK	1	14	23.02	23.02	22.99	
3	QPSK	8	0	22.14	22.19	22.17	
3	QPSK	8	4	22.07	22.15	22.14	23.5
3	QPSK	8	7	22.18	22.13	22.15	
3	QPSK	15	0	22.14	22.19	22.16	
3	16QAM	1	0	22.44	22.39	22.41	
3	16QAM	1	8	22.31	22.40	22.17	23.5
3	16QAM	1	14	22.25	22.32	22.40	
3	16QAM	8	0	21.11	21.04	21.03	
3	16QAM	8	4	21.23	21.18	21.06	
3	16QAM	8	7	21.16	21.15	21.12	22.5
3	16QAM	15	0	21.17	21.14	21.04	
3	64QAM	1	0	21.40	21.37	21.38	
3	64QAM	1	8	21.28	21.38	21.12	
3	64QAM	1	14	21.19	21.32	21.33	21.5
3	64QAM	8	0	20.08	20.03	20.03	
3	64QAM	8	4	20.15	20.13	20.05	
3	64QAM	8	7	20.08	20.09	20.09	
3	64QAM	15	0	20.19	20.08	19.97	19.5
3	256QAM	1	0	18.29	18.24	18.31	
3	256QAM	1	8	18.12	18.29	18.02	
3	256QAM	1	14	18.14	18.21	18.29	
3	256QAM	8	0	17.94	18.19	17.88	19.5
3	256QAM	8	4	18.04	18.08	17.89	
3	256QAM	8	7	18.07	18.00	17.98	
3	256QAM	15	0	18.03	18.06	17.89	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.19	23.21	23.16	24.5
1.4	QPSK	1	3	22.96	23.08	22.93	
1.4	QPSK	1	5	23.04	23.04	23.01	
1.4	QPSK	3	0	22.16	22.21	22.19	
1.4	QPSK	3	1	22.09	22.17	22.16	
1.4	QPSK	3	3	22.20	22.15	22.17	
1.4	QPSK	6	0	22.16	22.21	22.18	23.5
1.4	16QAM	1	0	22.46	22.41	22.43	
1.4	16QAM	1	3	22.33	22.42	22.19	
1.4	16QAM	1	5	22.27	22.34	22.42	
1.4	16QAM	3	0	21.13	21.06	21.05	
1.4	16QAM	3	1	21.25	21.20	21.08	
1.4	16QAM	3	3	21.18	21.17	21.14	22.5
1.4	16QAM	6	0	21.19	22.20	21.06	
1.4	64QAM	1	0	21.42	21.39	21.40	
1.4	64QAM	1	3	21.30	21.40	21.14	
1.4	64QAM	1	5	21.21	21.34	21.35	
1.4	64QAM	3	0	20.10	20.05	20.05	
1.4	64QAM	3	1	20.17	20.15	20.07	21.5
1.4	64QAM	3	3	20.10	20.11	20.11	
1.4	64QAM	6	0	20.21	20.23	19.99	
1.4	256QAM	1	0	18.31	18.26	18.33	
1.4	256QAM	1	3	18.14	18.31	18.04	
1.4	256QAM	1	5	18.16	18.23	18.31	
1.4	256QAM	3	0	17.96	18.21	17.90	19.5
1.4	256QAM	3	1	18.06	18.10	17.91	
1.4	256QAM	3	3	18.09	18.02	18.00	
1.4	256QAM	6	0	18.05	18.20	17.91	

5	QPSK	25	0	22.49	22.59	22.51	24
5	16QAM	1	0	22.70	22.74	22.74	
5	16QAM	1	12	22.72	22.81	22.79	
5	16QAM	1	24	22.75	22.82	22.80	
5	16QAM	12	0	21.42	21.46	21.51	23
5	16QAM	12	7	21.57	21.59	21.56	
5	16QAM	12	13	21.56	21.61	21.58	
5	16QAM	25	0	21.55	21.47	21.61	
5	64QAM	1	0	21.64	21.78	21.69	23
5	64QAM	1	12	21.66	21.81	21.73	
5	64QAM	1	24	21.76	21.87	21.77	
5	64QAM	12	0	20.77	20.81	20.91	
5	64QAM	12	7	20.98	20.98	20.97	22
5	64QAM	12	13	21.01	21.01	21.01	
5	64QAM	25	0	20.98	20.85	21.06	
5	256QAM	1	0	18.54	18.68	18.59	
5	256QAM	1	12	18.56	18.71	18.63	20
5	256QAM	1	24	18.66	18.77	18.67	
5	256QAM	12	0	18.27	18.31	18.41	
5	256QAM	12	7	18.48	18.65	18.47	
5	256QAM	12	13	18.51	18.51	18.51	20
5	256QAM	25	0	18.48	18.35	18.56	

n2 (PC3)_Ant 0&Ant 4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.36	23.44	23.45	24.5
20		1	53	23.42	23.44	23.44	
20		1	104	23.40	23.41	23.42	
20		50	1	23.04	23.01	23.09	24.5
20		50	25	23.51	23.55	23.59	
20		50	50	23.07	23.04	23.07	
20		100	0	23.06	23.03	23.03	
20	DFT-s-OFDM QPSK	1	1	23.62	23.63	23.56	24.5
20		1	53	23.57	23.44	23.62	
20		1	104	23.58	23.38	23.61	
20		50	1	22.48	22.55	22.53	24.5
20		50	25	23.33	23.55	23.40	
20		50	50	22.59	22.60	22.53	
20		100	0	22.50	22.55	22.54	
20	DFT-s-OFDM 16QAM	1	1	22.35	22.52	22.60	23.5
20	DFT-s-OFDM 64QAM	1	1	20.97	21.08	21.10	22
20	DFT-s-OFDM 256QAM	1	1	18.66	18.71	18.72	19.5
20	CP-OFDM QPSK	1	1	21.57	22.02	22.11	23
20	CP-OFDM 16QAM	1	1	21.35	21.52	21.52	22.5
20	CP-OFDM 64QAM	1	1	20.11	20.16	20.16	21
20	CP-OFDM 256QAM	1	1	16.69	16.71	16.77	18
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	23.59	23.53	23.52	24.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	23.55	23.57	23.53	24.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	23.58	23.41	23.66	24.5

n5 (PC3)_Ant 0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	24.39	24.33	24.22	25
20		1	53	24.05	24.19	23.87	
20		1	104	24.10	24.00	24.08	
20		50	1	23.86	23.81	23.50	25
20		50	25	24.26	24.28	24.28	
20		50	50	23.75	23.71	23.72	
20		100	0	23.88	23.79	23.67	
20		1	1	24.50	24.65	24.37	25
20	DFT-s-OFDM QPSK	1	53	24.11	24.32	24.34	
20		1	104	24.15	24.34	24.38	
20		50	1	23.34	23.30	23.22	25
20		50	25	24.21	24.35	24.26	
20		50	50	23.21	23.27	23.21	
20		100	0	23.37	23.38	23.32	
20	DFT-s-OFDM 16QAM	1	1	23.62	23.55	23.41	24.5
20	DFT-s-OFDM 64QAM	1	1	22.05	22.04	21.88	23
20	DFT-s-OFDM 256QAM	1	1	19.75	19.68	19.64	21
20	CP-OFDM QPSK	1	1	23.01	22.93	22.91	23.5
20	CP-OFDM 16QAM	1	1	22.53	22.40	22.35	23.5
20	CP-OFDM 64QAM	1	1	21.04	21.02	20.98	22
20	CP-OFDM 256QAM	1	1	17.71	17.74	17.66	18.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	24.62	24.28	24.24	25
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	24.47	24.22	24.30	25
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	24.61	24.16	24.21	25

n25 (PC3)_Ant 0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	Tune-up limit (dBm)
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.48	23.49	23.53	24.5
40		1	108	23.50	23.56	23.55	
40		1	214	23.49	23.54	23.45	
40		108	1	23.08	23.06	23.11	24.5
40		108	54	23.62	23.55	23.61	
40		108	108	23.09	23.17	23.11	
40	DFT-s-OFDM QPSK	216	0	23.12	23.13	23.15	24.5
40		1	1	23.69	23.79	23.78	
40		1	108	23.63	23.48	23.52	
40		1	214	23.76	23.51	23.52	24.5
40		108	1	22.59	22.60	22.58	
40		108	54	23.61	23.65	23.63	
40	DFT-s-OFDM 16QAM	108	108	22.59	22.59	22.61	24.5
40		216	0	22.64	22.68	22.67	
40	DFT-s-OFDM 64QAM	1	1	22.54	22.67	22.65	23.5
40	DFT-s-OFDM 256QAM	1	1	21.07	21.19	21.13	22
40	CP-OFDM QPSK	1	1	18.75	18.82	18.81	19.5
40	CP-OFDM 16QAM	1	1	22.05	22.04	22.14	23
40	CP-OFDM 64QAM	1	1	21.55	21.57	21.58	22.5
40	CP-OFDM 256QAM	1	1	20.10	20.20	20.25	21
40	CP-OFDM	1	1	16.79	16.74	16.78	18
Channel				373500	376500	379500	Tune-up limit
Frequency (MHz)				1867.5	1882.5	1897.5	(dBm)
35	DFT-s-OFDM QPSK	1	1	23.74	23.68	23.68	24.5
Channel				373000	376500	380000	Tune-up limit
Frequency (MHz)				1865	1882.5	1900	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.47	23.59	23.54	24.5
Channel				372500	376500	380500	Tune-up limit
Frequency (MHz)				1862.5	1882.5	1902.5	(dBm)
25	DFT-s-OFDM QPSK	1	1	23.61	23.61	23.63	24.5
Channel				372000	376500	381000	Tune-up limit
Frequency (MHz)				1860	1882.5	1905	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.47	23.46	23.63	24.5
Channel				371500	376500	381500	Tune-up limit
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.59	23.55	23.66	24.5
Channel				371000	376500	382000	Tune-up limit
Frequency (MHz)				1855	1882.5	1910	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.57	23.45	23.50	24.5
Channel				370500	376500	382500	Tune-up limit
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.63	23.54	23.44	24.5

n30 (PC3)_Ant 0&Ant 4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		24
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		23.30		24
10		1	26		23.32		
10		1	50		23.20		
10		25	1		22.85		24
10		25	12		23.35		
10		25	25		22.86		
10		50	0		22.87		24
10		1	1		23.47		
10	DFT-s-OFDM QPSK	1	26		23.42		
10		1	50		23.39		24
10		25	1		22.37		
10		25	12		23.32		
10		25	25		22.32		
10		50	0		22.37		24
10	DFT-s-OFDM 16QAM	1	1		22.46		23.5
10	DFT-s-OFDM 64QAM	1	1		21.06		22
10	DFT-s-OFDM 256QAM	1	1		18.50		19.5
10	CP-OFDM QPSK	1	1		21.91		23
10	CP-OFDM 16QAM	1	1		21.40		22.5
10	CP-OFDM 64QAM	1	1		20.03		21
10	CP-OFDM 256QAM	1	1		16.46		17.5
Channel				461500	462000	462500	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.31	23.32	23.37	24

n41 (PC3)_Ant 4									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				508202	513900	518598	523296	528000	24
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM P1/2 BPSK	1	1	23.40	23.39	23.42	23.08	23.07	24
100		1	136	23.49	23.45	23.39	23.14	23.14	
100		1	271	23.52	23.64	23.71	23.49	23.53	
100		135	1	23.04	22.99	23.02	22.61	22.66	24
100		135	67	23.55	23.55	22.93	23.18	23.23	
100		135	136	23.05	23.02	22.79	22.84	22.87	
100		270	0	23.04	23.19	22.67	22.61	22.65	
100	DFT-s-OFDM QPSK	1	1	23.43	23.57	23.72	23.47	23.51	24
100		1	136	23.54	23.42	23.11	23.17	23.13	
100		1	271	23.53	23.59	23.34	23.50	23.53	
100		135	1	22.58	22.51	22.28	22.14	22.15	23
100		135	67	23.32	23.28	23.36	23.13	23.19	
100		135	136	22.58	22.47	22.29	22.36	22.35	
100		270	0	22.57	22.53	22.58	22.15	22.17	
100	DFT-s-OFDM 16QAM	1	1	22.47	22.35	22.25	22.13	22.13	23
100	DFT-s-OFDM 64QAM	1	1	20.75	20.76	20.44	20.42	20.44	22
100	DFT-s-OFDM 256QAM	1	1	18.89	18.91	18.59	18.46	18.46	19
100	CP-OFDM QPSK	1	1	21.89	21.90	21.70	21.59	21.57	25
100	CP-OFDM 16QAM	1	1	21.41	21.44	21.23	21.07	21.08	24
100	CP-OFDM 64QAM	1	1	19.96	20.04	19.65	19.61	19.57	23
100	CP-OFDM 256QAM	1	1	16.90	16.97	16.64	16.53	16.52	19
Channel				508200	513402	518598	523800	528996	Tune-up limit
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	23.25	23.39	23.31	23.18	23.11	24
Channel				507204	512904	518598	524298	529998	Tune-up limit
Frequency (MHz)				2538.02	2564.52	2592.99	2621.49	2649.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	23.22	23.35	23.23	23.13	23.17	24
Channel				506202	512400	518598	524796	531000	Tune-up limit
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	(dBm)
70	DFT-s-OFDM QPSK	1	1	23.30	23.35	23.36	23.20	23.22	24
Channel				505200	511902	518598	525798	531996	Tune-up limit
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	23.34	23.45	23.43	23.28	23.36	24
Channel				504204	511404	518598	525798	532998	Tune-up limit
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	(dBm)
50	DFT-s-OFDM QPSK	1	1	23.29	23.59	23.42	23.39	23.32	24
Channel				503202	510900	518598	526296	534000	Tune-up limit
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	(dBm)
40	DFT-s-OFDM QPSK	1	1	23.51	23.60	23.52	23.48	23.42	24
Channel				502200	510402	518598	526800	534996	Tune-up limit
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.45	23.60	23.52	23.40	23.39	24
Channel				501204	509904	518598	527298	535998	Tune-up limit
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.31	23.42	23.38	23.42	23.40	24
Channel				500700	509652	518598	527550	536496	Tune-up limit
Frequency (MHz)				2503.5	2548.26	2592.99	2637.75	2682.48	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.27	23.47	23.43	23.38	23.42	24
Channel				500202	509400	518598	527796	537000	Tune-up limit
Frequency (MHz)				2501.01	2547	2592.99	2638.98	2685	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.24	23.36	23.42	23.35	23.48	24

n48 (PC3)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM P1/2 BPSK	1	1	21.95	21.60	21.08	20.98	20.64	22.9
40		1	53	21.87	21.41	20.80	20.98	21.18	
40		1	104	21.44	21.07	20.95	21.16	20.59	
40		50	1	21.61	21.32	20.50	20.43	20.38	22.9
40		50	25	21.83	21.65	21.00	20.93	20.77	
40		50	50	21.12	21.02	20.38	20.44	20.31	
40		100	0	21.24	21.04	20.49	20.31	20.26	
40	DFT-s-OFDM QPSK	1	1	22.01	21.95	22.13	22.00	21.99	22.9
40		1	53	20.48	21.96	21.46	21.04	19.80	
40		1	104	22.02	21.70	21.47	20.03	21.10	
40		50	1	19.90	20.99	20.68	20.40	19.75	22.4
40		50	25	21.63	21.79	21.88	21.78	21.82	
40		50	50	20.35	20.84	20.88	18.85	18.68	
40		100	0	19.41	20.40	20.51	20.30	20.01	
40	DFT-s-OFDM 16QAM	1	1	19.70	20.86	20.85	20.51	20.03	21.9
40	DFT-s-OFDM 64QAM	1	1	18.65	19.45	19.39	19.04	18.60	20.9
40	DFT-s-OFDM 256QAM	1	1	17.06	16.69	17.23	15.59	15.90	17.9
40	CP-OFDM QPSK	1	1	19.59	20.42	20.37	19.98	19.59	20.9
40	CP-OFDM 16QAM	1	1	19.06	19.99	19.98	19.43	19.05	19.9
40	CP-OFDM 64QAM	1	1	18.33	17.68	17.43	16.97	16.69	18.9
40	CP-OFDM 256QAM	1	1	15.32	15.22	14.87	14.46	14.34	15.9
Channel				637668	639668	641666	643666	645666	Tune-up limit
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	21.57	21.98	21.75	21.47	19.93	22.9
Channel				637334	639500	641666	643832	646000	Tune-up limit
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	(dBm)
20	DFT-s-OFDM QPSK	1	1	21.87	20.79	21.54	20.22	20.30	22.9
Channel				637000	639334	641666	644000	646332	Tune-up limit
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	(dBm)
10	DFT-s-OFDM QPSK	1	1	21.42	21.86	21.42	19.71	20.11	22.9

n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.47	23.54	23.36	24.5
40		1	108	23.51	23.50	23.41	
40		1	214	23.49	23.61	23.38	
40		108	1	23.09	23.15	22.94	24.5
40		108	54	23.63	23.61	23.45	
40		108	108	23.16	23.22	23.04	
40	DFT-s-OFDM QPSK	216	0	23.12	23.14	22.97	24.5
40		1	1	23.52	23.76	23.47	
40		1	108	23.75	23.67	23.58	
40		1	214	23.64	23.75	23.51	24.5
40		108	1	22.62	22.62	22.49	
40		108	54	23.64	23.65	23.50	
40		108	108	22.71	22.71	22.59	24.5
40		216	0	22.68	22.70	22.52	
40	DFT-s-OFDM 16QAM	1	1	22.71	22.73	22.48	23.5
40	DFT-s-OFDM 64QAM	1	1	21.19	21.26	21.12	22
40	DFT-s-OFDM 256QAM	1	1	18.83	18.79	18.59	19.5
40	CP-OFDM QPSK	1	1	22.19	22.12	21.95	23
40	CP-OFDM 16QAM	1	1	21.56	21.69	21.43	22.5
40	CP-OFDM 64QAM	1	1	20.21	20.23	20.12	21
40	CP-OFDM 256QAM	1	1	16.64	16.73	16.56	17
Channel				345500	349000	352500	Tune-up limit (dBm)
Frequency (MHz)				1727.5	1745	1762.5	
35	DFT-s-OFDM QPSK	1	1	23.34	23.48	23.64	24.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	23.60	23.66	23.52	24.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	DFT-s-OFDM QPSK	1	1	23.86	23.90	23.87	24.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.68	23.57	23.56	24.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.62	23.53	23.53	24.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.59	23.50	23.51	24.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.57	23.52	23.58	24.5

n71 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	24.45	24.28	24.18	25
20		1	53	24.23	24.19	24.06	
20		1	104	24.06	24.04	23.95	
20		50	1	23.92	23.76	23.68	25
20		50	25	24.32	24.21	24.19	
20		50	50	23.66	23.62	23.55	
20		100	0	23.73	23.66	23.60	
20	DFT-s-OFDM QPSK	1	1	24.68	24.69	24.47	25
20		1	53	24.31	24.29	24.16	
20		1	104	24.21	24.10	24.01	
20		50	1	23.41	23.44	23.15	25
20		50	25	24.22	24.28	24.20	
20		50	50	23.21	23.15	23.13	
20		100	0	23.26	23.27	23.11	
20	DFT-s-OFDM 16QAM	1	1	23.59	23.41	23.37	24.5
20	DFT-s-OFDM 64QAM	1	1	22.15	21.96	21.85	23
20	DFT-s-OFDM 256QAM	1	1	19.51	19.30	19.23	20
20	CP-OFDM QPSK	1	1	23.07	22.94	22.92	24
20	CP-OFDM 16QAM	1	1	22.55	22.45	22.29	23
20	CP-OFDM 64QAM	1	1	21.16	21.02	20.90	22
20	CP-OFDM 256QAM	1	1	17.47	17.32	17.23	18.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	24.61	24.30	24.32	25
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	24.44	24.32	24.19	25
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	24.55	24.20	24.05	25

n77(3450-3550MHz) (PC2)_Ant 1&2&6									
RF BNC	Modulation	RF num	RF use	Low Channel	Low/Mid/High Channel	Mid/High Channel	High Channel	Turn-up (dB)	
Channel								(dBm)	
Frequency (MHz)								3500.01	
100	DFT+OFDM FSS-BPSK	1	1			26.70		27.0	
100		1	100			26.14			
100		1	271			25.93			
100		100	1			26.08			
100		100	100			26.13			
100		100	271			25.84			
100	DFT+OFDM FSS-BPSK	200	2			25.99		27.0	
100		1	1			26.91			
100		1	100			26.09			
100		1	271			25.84			
100		100	1			25.90			
100		100	100			26.03			
100	DFT+OFDM QPSK	100	100			26.40		27.0	
100		270	0			25.71			
100		1	1			26.09			
100		100	100			26.40			
100		270	0			25.71			
100		1	1			26.09			
100	DFT+OFDM 16QAM	1	1			25.61		26.0	
100	DFT+OFDM 32QAM	1	1			24.07		25.0	
100	DFT+OFDM 256QAM	1	1			22.06		22.0	
100	CP-OFDM QPSK	1	1			25.31		26.0	
100	CP-OFDM 16QAM	1	1			24.00		25.0	
100	CP-OFDM 32QAM	1	1			23.00		24.0	
100	CP-OFDM 256QAM	1	1			20.16		20.0	
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3495	3497.02	3502.01	3502.0	3500.00	26.00
90	DFT+OFDM QPSK	1	1	26.37	26.43	26.44	26.45	26.40	26.00
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3495.02	3495	3502.01	3502.00	3500.00	27.0
90	DFT+OFDM QPSK	1	1	26.36	26.37	26.40	26.40	26.33	26.00
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3495.01	3495.01	3502.01	3502.00	3500.00	27.0
70	DFT+OFDM QPSK	1	1	26.37	26.40	26.41	26.40	26.42	27.0
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3495	3495.02	3502.01	3502	3500.00	26.00
90	DFT+OFDM QPSK	1	1	26.34	26.32	26.44	26.40	26.35	27.0
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3497.02	3497.0	3502.01	3502	3500	27.0
90	DFT+OFDM QPSK	1	1	26.33	26.34	26.37	26.40	26.39	27.0
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3497.01	3497.01	3502.01	3502.00	3500.00	26.00
40	DFT+OFDM QPSK	1	1	26.57	26.54	26.69	26.71	26.73	27.0
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3495	3495.02	3502.01	3502.0	3500.00	26.00
30	DFT+OFDM QPSK	1	1	26.52	26.46	26.64	26.59	26.62	27.0
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3495.01	3497.00	3502.01	3502.00	3500.00	26.00
20	DFT+OFDM QPSK	1	1	26.71	26.66	26.79	26.78	26.64	27.0
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3495.02	3495	3502.01	3502.00	3500.00	26.00
20	DFT+OFDM QPSK	1	1	26.26	26.25	26.38	26.36	26.40	27.0
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3497.00	3497.00	3502.01	3502.00	3500.00	26.00
10	DFT+OFDM QPSK	1	1	26.23	26.30	26.48	26.41	26.32	27.0
Channel				E222A	E222A	E222A	E222A	E222A	Turn-up (dB)
Frequency (MHz)				3497.01	3497.01	3502.01	3502.00	3500.00	26.00
10	DFT+OFDM QPSK	1	1	26.19	26.29	26.31	26.36	26.33	27.0

n77(3450-3550MHz) (PC2)_Ant3									
RF BNC	Modulation	RF num	RF use	Low Channel	Low/Mid/High Channel	Mid/High Channel	Mid/High Channel	High Channel	Turn-up (dB)
Channel						E222A			
Frequency (MHz)						3502.01			(dBm)
100	DFT+OFDM FSS-BPSK	1	1			26.10			26.30
100		1	100			26.30			
100		1	271			26.33			
100		100	1			26.08			
100		100	100			26.30			
100		100	271	1		26.33			
100	DFT+OFDM QPSK	1	1			26.10			26.30
100		1	100			26.30			
100		1	271			26.33			
100		100	1			26.08			
100		100	100			26.30			
100		100	271	1		26.33			
100	DFT+OFDM 16QAM	1	1			25.01			25.00
100	DFT+OFDM 16QAM	1	1			23.07			23.00
100	DFT+OFDM 256QAM	1	1			21.40			21.00
100	CP-OFDM QPSK	1	1			24.71			25.30
100	CP-OFDM 16QAM	1	1			24.09			24.00
100	CP-OFDM 16QAM	1	1			23.00			23.00
100	CP-OFDM 256QAM	1	1			19.56			20.30
Channel				E220A	E221A	E222A	E223A	E224A	Turn-up (dB)
Frequency (MHz)				3495	3497.02	3502.01	3502.5	3503.08	(dBm)
90	DFT+OFDM QPSK	1	1	25.57	25.63	25.64	25.65	25.66	26.30
Channel				E220A	E220A	E220A	E220A	E220A	Turn-up (dB)
Frequency (MHz)				3495.02	3495	3502.01	3503.08	3503	(dBm)
80	DFT+OFDM QPSK	1	1	25.56	25.57	25.60	25.60	25.63	26.30
Channel				E221A	E221A	E221A	E221A	E221A	Turn-up (dB)
Frequency (MHz)				3495.01	3495.01	3502.01	3503.08	3503.08	(dBm)
70	DFT+OFDM QPSK	1	1	25.57	25.60	25.61	25.60	25.62	26.30
Channel				E220A	E220A	E220A	E220A	E220A	Turn-up (dB)
Frequency (MHz)				3495	3495.02	3502.01	3503	3503.08	(dBm)
60	DFT+OFDM QPSK	1	1	25.54	25.52	25.64	25.60	25.70	26.30
Channel				E220A	E220A	E220A	E220A	E220A	Turn-up (dB)
Frequency (MHz)				3497.02	3497.0	3502.01	3503	3503	(dBm)
50	DFT+OFDM QPSK	1	1	25.53	25.44	25.57	25.60	25.59	26.30
Channel				E221A	E221A	E221A	E221A	E221A	Turn-up (dB)
Frequency (MHz)				3497.01	3497.01	3502.01	3503.08	3503.08	(dBm)
40	DFT+OFDM QPSK	1	1	25.77	25.74	25.89	25.91	25.93	26.30
Channel				E220A	E221A	E221A	E220A	E220A	Turn-up (dB)
Frequency (MHz)				3495	3497.02	3502.01	3507.5	3508.08	(dBm)
30	DFT+OFDM QPSK	1	1	25.72	25.66	25.64	25.79	25.82	26.30
Channel				E221A	E220A	E221A	E220A	E220A	Turn-up (dB)
Frequency (MHz)				3497.01	3497.08	3502.01	3508.08	3508.08	(dBm)
20	DFT+OFDM QPSK	1	1	25.91	25.86	25.89	25.98	25.94	26.30
Channel				E220A	E220A	E221A	E220A	E220A	Turn-up (dB)
Frequency (MHz)				3497.02	3498	3502.01	3508.08	3498	(dBm)
10	DFT+OFDM QPSK	1	1	25.48	25.45	25.58	25.56	25.60	26.30
Channel				E220A	E221A	E221A	E221A	E221A	Turn-up (dB)
Frequency (MHz)				3497.5	3497A.76	3502.01	3507.08	3506.08	(dBm)
05	DFT+OFDM QPSK	1	1	25.43	25.50	25.86	25.81	25.72	26.30
Channel				E221A	E221A	E221A	E221A	E221A	Turn-up (dB)
Frequency (MHz)				3497.01	3497.01	3502.01	3507.01	3506.08	(dBm)
00	DFT+OFDM QPSK	1	1	25.39	25.49	25.91	25.90	25.93	26.30

n77(3700-3980MHz) (PC2)_Ant 1&2&6											
RF BNC	Modulation	RF num	RF user	Low Channel	Low/Mid Channel	Mid Channel	Mid/High Channel	High Channel	Tune-up BNC		
Channel				02000	02000	02000	02000	02000	(dBm)		
Frequency (MHz)				3700	3700	3840	3840	3920			
100	DFT+OFDM-FM-BPSK	1	1	25.84	26.00	25.84	26.07	26.15	27.8		
100		1	128	25.88	26.10	25.88	26.04	26.11			
100		1	271	25.82	26.11	25.87	25.87	25.89			
100		128	1	25.83	25.89	25.82	26.04	26.08			
100		128	67	25.88	26.10	25.82	26.00	26.09			
100	DFT+OFDM-FM-QPSK	128	128	25.88	25.87	25.84	25.82	25.87	27.3		
100		255	0	25.78	25.88	25.88	25.87	25.88			
100		1	1	26.02	26.02	26.02	26.02	26.02			
100		1	128	25.87	25.88	25.88	25.89	25.84			
100		1	271	25.81	26.07	25.88	25.84	25.84			
100	DFT+OFDM-FM-QPSK	128	1	26.02	26.02	26.02	26.02	26.02	27.3		
100		128	67	26.05	26.02	25.86	25.81	25.89			
100		128	128	25.82	25.83	25.83	25.83	25.83			
100		255	0	26.01	26.02	26.02	26.02	26.02			
100		255	0	26.01	26.02	26.02	26.02	26.02			
100	DFT+OFDM-16QAM	1	1	25.84	25.85	25.85	25.85	25.87	26.8		
100	DFT+OFDM-16QAM	1	1	23.73	23.81	23.77	23.83	23.87	26.8		
100	DFT+OFDM-256QAM	1	1	23.74	23.82	23.77	23.80	23.80	26.3		
100	CP-OFDM-QPSK	1	1	24.85	25.08	24.86	25.00	25.07	26.9		
100	CP-OFDM-16QAM	1	1	24.10	24.14	24.10	24.13	24.18	26.8		
100	CP-OFDM-16QAM	1	1	22.75	22.82	22.82	22.82	22.81	26.4		
100	CP-OFDM-256QAM	1	1	19.88	20.05	19.76	19.96	19.96	26.0		
Channel				04000	02004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.00	3760.01	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.88	26.07	25.86	25.84	25.84	27.8		
Channel				04004	02008	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.01	3760.01	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.85	25.87	25.86	25.82	25.85	27.8		
Channel				04000	02000	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740	3767.4	3840	3867.4	3924	(dBm)		
70	DFT+OFDM-QPSK	1	1	25.82	25.87	25.85	25.81	25.82	27.8		
Channel				04008	02004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.08	3760.01	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.85	25.88	25.82	25.81	25.81	27.8		
Channel				04004	02004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.04	3760.01	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.85	25.88	25.82	25.81	25.81	27.8		
Channel				04004	02008	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740	3760	3840	3867	3924	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.82	25.88	25.87	25.85	25.82	27.8		
Channel				04008	01004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.08	3767.41	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.85	25.85	25.85	25.85	25.85	27.8		
Channel				04000	01000	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740	3760	3840	3867	3924	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.82	25.88	25.87	25.85	25.82	27.8		
Channel				04008	01004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.08	3767.41	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.85	25.85	25.85	25.85	25.85	27.8		
Channel				04000	01000	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740	3760	3840	3867	3924	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.82	25.88	25.87	25.85	25.82	27.8		
Channel				04008	01008	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.08	3767.49	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.85	25.85	25.85	25.85	25.85	27.8		
Channel				04000	01000	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740	3760	3840	3867	3924	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.82	25.88	25.87	25.85	25.82	27.8		
Channel				04008	01004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.08	3767.41	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.85	25.85	25.85	25.85	25.85	27.8		
Channel				04000	01000	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740	3760	3840	3867	3924	(dBm)		

n77(3700-3980MHz) (PC2)_Ant3											
RF BNC	Modulation	RF num	RF user	Low Channel	Low/Mid Channel	Mid Channel	Mid/High Channel	High Channel	Tune-up BNC		
Channel				02000	02000	02000	02000	02000	(dBm)		
Frequency (MHz)				3700	3700	3840	3840	3920			
100	DFT+OFDM-FM-BPSK	1	1	25.84	26.10	25.84	25.87	25.85	26.30		
100		1	128	25.88	25.80	25.88	25.84	25.81			
100		1	271	25.82	25.81	25.87	25.87	25.86			
100		128	1	25.83	25.89	25.82	25.84	25.88			
100		128	67	25.88	25.85	25.85	25.86	25.89			
100		DFT+OFDM-QPSK	128	128	25.88	25.87	25.84	25.82	25.87	26.30	
100			255	0	25.78	25.87	25.88	25.82	25.88		
100			1	1	26.02	26.02	26.02	26.02	26.02		
100			1	128	25.87	25.88	25.88	25.89	25.84		
100			1	271	25.81	26.07	25.88	25.84	25.84		
100	DFT+OFDM-16QAM		128	1	26.02	26.02	26.02	26.02	26.02	26.30	
100			128	67	26.05	26.02	25.86	25.81	25.89		
100			128	128	25.82	25.83	25.83	25.83	25.83		
100			255	0	26.01	26.02	26.02	26.02	26.02		
100			255	0	26.01	26.02	26.02	26.02	26.02		
100		DFT+OFDM-32QAM	1	1	24.84	25.10	25.00	25.06	25.17	25.80	
100		DFT+OFDM-64QAM	1	1	23.70	23.81	23.77	23.83	23.87	26.30	
100		DFT+OFDM-128QAM	1	1	23.74	23.82	23.77	23.80	23.80	25.50	
100		CP-OFDM-QPSK	1	1	24.82	24.88	24.86	24.80	24.87	25.30	
100		CP-OFDM-16QAM	1	1	23.80	24.14	23.80	24.23	24.18	24.80	
100	CP-OFDM-64QAM	1	1	22.75	22.80	22.82	22.82	22.81	25.30		
100	CP-OFDM-256QAM	1	1	19.88	19.85	19.76	19.96	19.96	25.30		
Channel				04000	02004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.00	3760.01	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.88	25.87	25.86	25.84	25.84	26.30		
Channel				04004	02008	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.01	3760.01	3840	3867.49	3924.00	(dBm)		
90	DFT+OFDM-QPSK	1	1	25.85	25.87	25.84	25.82	25.85	26.30		
Channel				04008	02004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740	3767.5	3840	3867.5	3924	(dBm)		
70	DFT+OFDM-QPSK	1	1	25.82	25.87	25.80	25.81	25.72	26.30		
Channel				04008	02004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.02	3760.01	3840	3867.49	3924.00	(dBm)		
25	DFT+OFDM-QPSK	1	1	25.85	25.88	25.82	25.81	25.85	26.30		
Channel				04004	02008	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.01	3760.02	3840	3867.49	3924.00	(dBm)		
25	DFT+OFDM-QPSK	1	1	25.83	25.89	25.86	25.72	25.81	26.30		
Channel				04000	02000	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3700	3700	3840	3840	3920	(dBm)		
25	DFT+OFDM-QPSK	1	1	25.72	25.78	25.67	25.65	25.62	26.30		
Channel				04008	02004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.00	3760.01	3840	3867.49	3924.00	(dBm)		
25	DFT+OFDM-QPSK	1	1	25.70	25.83	25.76	25.76	25.83	26.30		
Channel				04000	02000	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3700.0	3760.00	3840	3867.0	3920.0	(dBm)		
25	DFT+OFDM-QPSK	1	1	25.68	25.85	25.84	25.80	25.81	26.30		
Channel				04004	02008	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.01	3760.02	3840	3867.49	3924.00	(dBm)		
25	DFT+OFDM-QPSK	1	1	25.88	25.83	25.83	25.86	25.83	26.30		
Channel				04008	02004	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3740.00	3760.00	3840	3867.49	3924.00	(dBm)		
15	DFT+OFDM-QPSK	1	1	25.71	25.81	25.70	25.73	25.85	26.30		
Channel				04000	02000	02000	02000	02000	Tune-up BNC		
Frequency (MHz)				3700	3700.0	3840	3867.0	3920	(dBm)		
10	DFT+OFDM-QPSK	1	1	25.79	25.83	25.86	25.79	25.82	26.30		

n77(3450-3550MHz) (PC3)_Ant 1&2&3&6									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.35			24.5
100		1	136			22.96			
100		1	271			22.61			
100		135	1			23.19			24
100		135	67			23.05			
100		135	136			22.75			
100	DFT-s-OFDM QPSK	270	0			23.03			24.5
100		1	1			23.47			
100		1	136			22.95			
100		1	271			22.69			24
100		135	1			23.19			
100		135	67			23.03			
100	DFT-s-OFDM 16QAM	135	136			22.74			24.5
100		270	0			23.04			
100		1	1			23.46			
100	DFT-s-OFDM 64QAM	1	1			23.32			24.5
100	DFT-s-OFDM 256QAM	1	1			22.27			23.5
100	CP-OFDM QPSK	1	1			23.36			24.5
100	CP-OFDM 16QAM	1	1			23.31			24.5
100	CP-OFDM 64QAM	1	1			23.21			24.5
100	CP-OFDM 256QAM	1	1			20.23			22
Channel				633000	633168	633334	633500	633666	Tune-up limit
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	(dBm)
90	DFT-s-OFDM QPSK	1	1	23.30	23.28	23.27	23.36	23.35	24.5
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	23.21	23.20	23.25	23.24	23.25	24.5
Channel				632334	632668	633334	633666	634000	Tune-up limit
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	(dBm)
70	DFT-s-OFDM QPSK	1	1	23.32	23.24	23.27	23.24	23.33	24.5
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	23.24	23.24	23.32	23.30	23.30	24.5
Channel				631668	632000	633334	634000	634666	Tune-up limit
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	(dBm)
50	DFT-s-OFDM QPSK	1	1	23.25	23.20	23.31	23.26	23.16	24.5
Channel				631334	632000	633334	634000	634666	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	23.56	23.53	23.57	23.54	23.40	24.5
Channel				631000	632000	633334	634000	634666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.50	23.49	23.52	23.41	23.28	24.5
Channel				630834	632000	633334	634000	634666	Tune-up limit
Frequency (MHz)				3462.51	3481.26	3500.01	3518.76	3537.48	(dBm)
25	DFT-s-OFDM QPSK	1	1	23.68	23.57	23.70	23.70	23.80	24.5
Channel				630668	632000	633334	634000	634666	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.26	23.23	23.32	23.39	23.42	24.5
Channel				630500	631916	633334	634750	636166	Tune-up limit
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.35	23.25	23.45	23.40	23.45	24.5
Channel				630334	631834	633334	634834	636332	Tune-up limit
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.32	23.08	23.37	23.41	23.36	24.5

n77(3700-3980MHz) (PC3)_Ant 1&2&3&6									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	24.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM P1/2 BPSK	1	1	22.78	23.26	22.94	22.89	22.80	24.5
100		1	136	22.99	23.03	22.72	23.11	23.12	
100		1	271	22.84	22.74	22.65	22.98	23.20	
100		135	1	22.94	23.17	22.82	23.04	22.98	24.5
100		135	67	23.03	23.08	22.75	23.07	23.14	
100		135	136	22.90	22.82	22.69	23.06	23.14	
100	DFT-s-OFDM QPSK	270	0	22.93	23.07	22.69	23.02	23.06	24.5
100		1	1	23.10	23.28	23.30	23.18	23.12	
100		1	136	23.00	23.10	22.67	23.10	23.15	
100		1	271	22.80	22.68	22.67	22.91	23.13	24.5
100		135	1	22.90	22.32	22.87	23.00	23.00	
100		135	67	23.02	23.09	23.10	23.08	23.05	
100	DFT-s-OFDM 16QAM	135	136	22.91	22.76	22.65	23.04	23.10	24.5
100		270	0	22.69	22.83	22.90	22.83	22.87	
100		1	1	22.76	23.20	23.08	23.01	22.97	
100	DFT-s-OFDM 64QAM	1	1	22.78	23.03	22.79	22.78	22.64	23.5
100	DFT-s-OFDM 256QAM	1	1	21.62	22.07	21.71	21.74	21.63	22.5
100	CP-OFDM QPSK	1	1	22.88	23.29	22.94	22.94	22.97	23.5
100	CP-OFDM 16QAM	1	1	22.75	23.18	22.89	22.86	22.91	23.5
100	CP-OFDM 64QAM	1	1	22.69	23.21	22.79	22.74	22.88	23.5
100	CP-OFDM 256QAM	1	1	19.64	20.12	19.81	19.74	19.67	20.5
Channel				649666	652834	656000	659166	662332	Tune-up limit
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	22.77	23.21	22.94	22.69	22.84	24.5
Channel				649334	652668	656000	659332	662666	Tune-up limit
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	22.73	23.26	22.88	22.71	22.95	24.5
Channel				649000	652500	656000	659500	663000	Tune-up limit
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	(dBm)
70	DFT-s-OFDM QPSK	1	1	22.83	23.20	22.90	22.72	23.08	24.5
Channel				648668	652334	656000	659666	663332	Tune-up limit
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	22.84	23.22	22.82	22.71	23.17	24.5
Channel				648334	652168	656000	659832	663666	Tune-up limit
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	(dBm)
50	DFT-s-OFDM QPSK	1	1	22.94	23.16	22.82	22.85	23.31	24.5
Channel				648000	652000	656000	660000	664000	Tune-up limit
Frequency (MHz)				3720	3780	3840	3900	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	23.39	23.50	23.18	23.17	23.68	24.5
Channel				647668	651834	656000	660166	664332	Tune-up limit
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.14	23.44	22.99	23.13	23.56	24.5
Channel				647500	651750	656000	660250	664500	Tune-up limit
Frequency (MHz)				3712.5	3776.25	3840	3903.75	3967.5	(dBm)
25	DFT-s-OFDM QPSK	1	1	23.43	23.67	23.31	23.36	23.87	24.5
Channel				647334	651668	656000	660332	664666	Tune-up limit
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.15	23.24	22.89	22.98	23.58	24.5
Channel				647168	651584	656000	660416	664832	Tune-up limit
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.08	23.18	22.83	23.03	23.46	24.5
Channel				647000	651500	656000	660500	665000	Tune-up limit
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.09	23.24	22.91	23.12	23.52	24.5

2.4GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	18.87	19.00	98.29
		CH 6	2437	18.80	19.00	
		CH 11	2462	18.97	19.00	
	802.11g 6Mbps	CH 1	2412	18.53	19.00	97.61
		CH 6	2437	18.40	19.00	
		CH 11	2462	18.52	19.00	
	802.11n-HT20 MCS0	CH 1	2412	17.33	18.00	97.46
		CH 6	2437	17.28	18.00	
		CH 11	2462	17.40	18.00	
	802.11n-HT40 MCS0	CH 3	2422	18.10	19.00	92.82
		CH 6	2437	18.00	19.00	
		CH 9	2452	17.67	18.50	

5.2GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	18.34	19.00	97.89
		CH 44	5220	18.29	19.00	
		CH 48	5240	18.34	19.00	
	802.11n-HT20 MCS0	CH 36	5180	18.20	19.00	97.76
		CH 44	5220	18.13	19.00	
		CH 48	5240	18.16	19.00	
	802.11n-HT40 MCS0	CH 38	5190	17.29	18.00	95.59
		CH 46	5230	17.25	18.00	
		CH 36	5180	18.25	19.00	97.74
	802.11ac-VHT20 MCS0	CH 44	5220	18.18	19.00	
		CH 48	5240	18.21	19.00	
	802.11ac-VHT40 MCS0	CH 38	5190	17.29	18.00	95.59
		CH 46	5230	17.24	18.00	
		CH 42	5210	15.18	16.00	

5.3GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5280	18.38	19.00	97.89
		CH 60	5300	18.45	19.00	
		CH 64	5320	18.49	19.00	
	802.11n-HT20 MCS0	CH 52	5280	18.20	19.00	97.74
		CH 60	5300	18.30	19.00	
		CH 64	5320	18.34	19.00	
	802.11ac-VHT20 MCS0	CH 52	5280	18.24	19.00	97.01
		CH 60	5300	18.33	19.00	
		CH 64	5320	18.36	19.00	

5.5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	17.46	18.00	97.89
		CH 120	5600	16.98	17.50	
		CH 144	5720	16.63	17.50	
	802.11n-HT20 MCS0	CH 100	5500	17.95	18.50	97.74
		CH 120	5600	17.48	18.00	
		CH 144	5720	17.22	18.00	
	802.11n-HT40 MCS0	CH 102	5510	16.93	17.50	95.59
		CH 126	5630	16.67	17.50	
		CH 142	5710	16.27	17.00	
	802.11ac-VHT20 MCS0	CH 100	5500	17.99	18.50	97.74
		CH 120	5600	17.52	18.50	
		CH 144	5720	17.25	18.00	100.00
	802.11ac-VHT40 MCS0	CH 102	5510	16.92	17.50	
		CH 126	5630	16.65	17.50	
		CH 142	5710	16.28	17.00	91.67
	802.11ac-VHT80 MCS0	CH 106	5530	15.01	16.00	
		CH 122	5610	14.77	15.50	
		CH 138	5680	14.14	15.00	

5.8GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	17.21	18.00	97.20
		CH 157	5785	17.62	18.50	
		CH 165	5825	17.68	18.50	
	802.11n-HT20 MCS0	CH 149	5745	17.11	18.00	97.74
		CH 157	5785	17.55	18.50	
		CH 165	5825	17.61	18.50	
	802.11n-HT40 MCS0	CH 151	5755	16.28	17.00	95.59
		CH 159	5795	16.53	17.50	
		CH 149	5745	17.11	18.00	97.74
	802.11ac-VHT20 MCS0	CH 157	5785	17.54	18.50	
		CH 165	5825	17.60	18.50	
	802.11ac-VHT40 MCS0	CH 151	5755	16.29	17.00	94.12
		CH 159	5795	16.54	17.50	
		CH 155	5775	14.60	15.50	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
BR / EDR	CH 00	2402	1Mbps	2Mbps	3Mbps
			6.82	4.81	4.49
			7.08	4.70	4.94
	CH 78	2480	6.14	4.18	4.09
Tune-up Limit			8	6	6
Duty Cycle %			77.01	77.04	77.12

Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402	GFSK		
			5.80		
			5.98		
	CH 39	2480	5.07		
Tune-up Limit			6.5		
Duty Cycle %			62.88		

2CC LTE Uplink												
Configure	CA Configuration	PCC					SCC					
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Totl Power(dBm)	Tune-up limit(dBm)
E-UTRA CA configuration	CA_2A-5A	2	10	18900	1880	QPSK/1#0	5	10	20450	829	23.24	24
	CA_2A-4A	2	10	18900	1880	QPSK/1#0	4	10	20175	1732.5	23.10	24
	CA_2A-12A	2	10	18900	1880	QPSK/1#0	12	10	23060	704	22.97	24
	CA_2A-66A	2	10	18900	1880	QPSK/1#0	20	66	132572	1770	22.95	24
	CA_5A-66A	5	10	20450	829	QPSK/1#0	20	66	132572	1770	23.31	24
	CA_12A-66A	12	10	23060	704	QPSK/1#0	20	66	132572	1770	23.35	24

2CC LTE DL												
Configure	CA Configuration	PCC					SCC				Totl Power(dBm)	Tune-up limit(dBm)
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)		
E-UTRA CA configuration	CA_2A-2A	2	10	18650	1855	QPSK/1#0	2	10	18900	1880	22.89	24
	CA_2A-4A	2	10	18900	1880	QPSK/1#0	4	10	20175	1732.5	22.92	24
	CA_2A-5A	2	10	18900	1880	QPSK/1#0	5	10	20450	829	22.93	24
	CA_2A-12A	2	10	18900	1880	QPSK/1#0	12	10	23060	704	22.68	24
	CA_2A-14A	2	10	18900	1880	QPSK/1#0	14	10	23330	793	22.72	24
	CA_2A-29A	2	10	18900	1880	QPSK/1#0	29	10	9720	723	22.91	24
	CA_2A-30A	2	10	18900	1880	QPSK/1#0	30	10	27710	2310	22.62	24
	CA_2A-66A	2	10	18900	1880	QPSK/1#0	66	20	132572	1770	22.59	24
	CA_2A-71A	2	10	18900	1880	QPSK/1#0	71	10	133422	693	22.91	24
	CA_2C	2	20	18700	1880	QPSK/1#0	2	20	18898	1879.8	22.96	24
	CA_4A-4A	4	10	20050	1750	QPSK/1#0	4	10	20175	1732.5	22.61	24
	CA_4A-5A	4	10	20175	1732.5	QPSK/1#0	5	10	20450	829	22.82	24
	CA_4A-12A	4	10	20175	1732.5	QPSK/1#0	12	10	23130	711	22.79	24
	CA_4A-71A	4	10	20175	1732.5	QPSK/1#0	71	10	133422	693	23.05	24
	CA_5A-30A	5	10	20525	836.5	QPSK/1#0	30	10	27710	2310	22.86	24
	CA_5A-66A	5	10	20525	836.5	QPSK/1#0	66	20	132572	1770	22.87	24
	CA_12A-30A	12	10	23060	704	QPSK/1#0	30	10	27710	2310	23.01	24
	CA_12A-66A	12	10	23060	704	QPSK/1#0	66	20	132572	1770	22.66	24
	CA_14A-66A	14	10	23330	793	QPSK/1#0	66	20	132572	1770	22.65	24
	CA_14A-30A	14	10	23330	793	QPSK/1#0	30	10	27710	2310	22.92	24
	CA_29A-30A	29	10	9720	723	QPSK/1#0	30	10	27710	2310	23.01	24
	CA_30A-66A	10	30	27710	2310	QPSK/1#0	30	10	27710	2310	22.99	24
	CA_66A-66A	66	10	132022	1715	QPSK/1#0	66	10	132322	1745	22.95	24
	CA_29A-66A	29	10	9720	723	QPSK/1#0	66	10	132322	1745	22.96	24
	CA_66B	66	10	132523	1765.1	QPSK/1#0	66	10	132622	1775	22.98	24
	CA_66C	66	20	132374	1750.2	QPSK/1#0	66	20	132572	1770	23.03	24
	CA_66A-71A	66	10	132422	1755	QPSK/1#0	71	10	133297	680.5	22.95	24

Reduced Power Level 1

Band 2 (1900MHz Band) (dBm) Ant 4												
Part 24E												
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Midle Channel	High Channel	Tune-up limit (dBm)					
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.70	19.90	19.90	21.5	20.5	20.5			
20	QPSK	1	49	20.31	20.31	20.28						
20	QPSK	1	99	20.23	20.30	20.27						
20	QPSK	50	0	19.37	19.49	19.38	20.5	19.5	19.5			
20	QPSK	50	24	19.41	19.36	19.33						
20	QPSK	50	50	19.36	19.41	19.34						
20	QPSK	100	0	19.41	19.42	19.31	20.5	18.5	18.5			
20	16QAM	1	0	19.68	19.59	19.42						
20	16QAM	1	49	19.56	19.65	19.60						
20	16QAM	1	99	19.66	19.43	19.70	19.5	17.5	17.5			
20	16QAM	50	0	19.37	19.32	19.36						
20	16QAM	50	24	19.58	19.43	19.42						
20	16QAM	50	50	19.45	19.48	19.50	19.5	16.5	16.5			
20	16QAM	100	0	19.43	19.46	19.41						
20	16QAM	1	0	19.53	19.67	19.62						
20	16QAM	1	49	19.56	19.60	19.50	19.5	15.5	15.5			
20	16QAM	1	99	19.66	19.54	19.36						
20	16QAM	50	0	17.51	17.40	17.40						
20	16QAM	50	24	17.34	17.36	17.42	18.5	14.5	14.5			
20	16QAM	50	50	17.47	17.40	17.40						
20	16QAM	100	0	17.39	17.42	17.41						
20	256QAM	1	0	15.27	15.42	15.37	16.5	13.5	13.5			
20	256QAM	1	49	15.30	15.36	15.29						
20	256QAM	1	99	15.40	15.29	15.11						
20	256QAM	50	0	15.26	15.16	15.15	16.5	12.5	12.5			
20	256QAM	50	24	15.08	15.15	15.17						
20	256QAM	50	50	15.21	15.15	15.20						
20	256QAM	100	0	15.13	15.17	15.18	16.5	11.5	11.5			
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.75	19.90	19.90	21.5	20.5	20.5			
15	QPSK	1	37	20.24	20.24	20.21						
15	QPSK	1	74	20.16	20.23	20.20						
15	QPSK	36	0	19.30	19.42	19.31	20.5	19.5	19.5			
15	QPSK	36	20	19.34	19.28	19.26						
15	QPSK	36	36	19.31	19.34	19.27						
15	QPSK	75	0	19.34	19.35	19.24	20.5	18.5	18.5			
15	16QAM	1	0	19.61	19.62	19.36						
15	16QAM	1	37	19.49	19.58	19.53						
15	16QAM	1	74	19.59	19.36	19.63	19.5	17.5	17.5			
15	16QAM	36	0	19.30	19.25	19.29						
15	16QAM	36	20	19.51	19.36	19.35						
15	16QAM	36	36	19.38	19.41	19.43	19.5	16.5	16.5			
15	16QAM	75	0	19.36	19.38	19.34						
15	16QAM	1	0	19.46	19.60	19.55						
15	16QAM	1	37	19.49	19.33	19.43	19.5	15.5	15.5			
15	16QAM	1	74	19.59	19.47	19.29						
15	16QAM	36	0	17.44	17.37	17.33						
15	16QAM	36	20	17.27	17.28	17.35	18.5	14.5	14.5			
15	16QAM	36	36	17.40	17.33	17.38						
15	16QAM	75	0	17.32	17.36	17.34						
15	256QAM	1	0	15.20	15.35	15.30	16.5	13.5	13.5			
15	256QAM	1	37	15.23	15.28	15.18						
15	256QAM	1	74	15.33	15.22	15.04						
15	256QAM	36	0	15.18	15.08	15.08	16.5	12.5	12.5			
15	256QAM	36	20	15.01	15.03	15.10						
15	256QAM	36	36	15.14	15.08	15.13						
15	256QAM	75	0	15.06	15.10	15.09	16.5	11.5	11.5			
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.34	20.36	20.32	21.5	20.5	20.5			
10	QPSK	1	25	20.15	20.17	20.10						
10	QPSK	1	49	20.07	20.14	20.11						
10	QPSK	25	0	19.21	19.33	19.22	20.5	19.5	19.5			
10	QPSK	25	12	19.26	19.19	19.17						
10	QPSK	25	25	19.22	19.26	19.18						
10	QPSK	50	0	19.26	19.26	19.15	20.5	18.5	18.5			
10	16QAM	1	0	19.52	19.43	19.26						
10	16QAM	1	25	19.40	19.49	19.44	20.5	17.5	17.5			
10	16QAM	1	49	19.50	19.27	19.54						
10	16QAM	25	0	19.21	19.16	19.20						
10	16QAM	25	12	19.42	19.27	19.26	19.5	16.5	16.5			
10	16QAM	25	25	19.29	19.32	19.34						
10	16QAM	50	0	19.27	19.29	19.25		19.5	15.5			
10	16QAM	1	0	19.37	19.51	19.46						
10	16QAM	1	25	19.40	19.44	19.34	19.5	14.5	14.5			
10	16QAM	1	49	19.50	19.38	19.20						
10	16QAM	25	0	17.35	17.24	17.24		18.5	13.5			
10	16QAM	25	12	17.18	17.19	17.26						
10	16QAM	25	25	17.31	17.24	17.29	18.5	12.5	12.5			
10	16QAM	50	0	17.23	17.26	17.25						
10	256QAM	1	0	15.11	15.16	15.21	16.5	11.5	11.5			
10	256QAM	1	25	15.14	15.19	15.09						
10	256QAM	1	49	15.24	15.13	14.96						
10	256QAM	25	0	15.09	14.99	14.99	16.5	10.5	10.5			
10	256QAM	25	12	14.92	14.94	15.01						
10	256QAM	25	25	15.05	14.99	15.04						
10	256QAM	50	0	14.97	15.01	15.00	16.5	9.5	9.5			
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.65	19.80	19.80	21.5	20.5	20.5			
5	QPSK	1	12	20.12	20.14	20.07						
5	QPSK	1	24	20.04	20.11	20.08						
5	QPSK	12	0	19.16	19.30	19.18	20.5	19.5	19.5			
5	QPSK	12	7	19.22	19.16	19.14						
5	QPSK	12	13	19.19	19.22	19.15						
5	QPSK	25	0	19.22	19.23	19.12	20.5	18.5	18.5			
5	16QAM	1	0	19.49	19.46	19.25						
5	16QAM	1	12	19.37	19.46	19.41						
5	16QAM	1	24	19.47	19.24	19.51	19.5	17.5	17.5			
5	16QAM	12	0	19.18	19.13	19.17						
5	16QAM	12	7	19.39	19.24	19.23		19.5	16.5			
5	16QAM	12	13	19.26	19.29	19.31						
5	16QAM	25	0	19.24	19.26	19.22	19.5	15.5	15.5			
5	16QAM	1	0	19.34	19.48	19.43						
5	16QAM	1	12	19.37	19.41	19.31		18.5	14.5			
5	16QAM	1	24	19.47	19.36	19.17						
5	16QAM	12	0	17.32	17.21	17.21	18.5	13.5	13.5			
5	16QAM	12	7	17.15	17.16	17.23						
5	16QAM	12	13	17.28	17.21	17.26						
5	16QAM	25	0	17.20	17.23	17.22	16.5	12.5	12.5			
5	256QAM	1	0	15.08	15.23	15.18						
5	256QAM	1	12	15.11	15.16	15.06		16.5	11.5			
5	256QAM	1	24	15.21	15.10	14.92						
5	256QAM	12	0	15.06	14.96	14.96	16.5	10.5	10.5			
5	256QAM	12	7	14.89	14.91	14.98						
5	256QAM	12	13	15.02	14.96	15.01		16.5	9.5			
5												



3	25GQAM	6	7	19.22	19.16	19.21	Test-log limit (dBm)
3	25GQAM	15	0	19.14	19.18	19.17	
Channel				19.07	19.03	19.13	
Frequency (MHz)				1897.7	1880	1905.3	21.5
1.4	QPSK	1	0	20.05	20.19	20.03	
1.4	QPSK	1	3	19.96	19.98	19.91	
1.4	QPSK	1	5	19.88	19.95	19.92	
1.4	QPSK	3	0	19.92	19.14	19.03	
1.4	QPSK	3	1	19.06	19.00	18.98	
1.4	QPSK	3	3	19.03	19.06	18.99	
1.4	QPSK	6	0	19.06	19.40	19.98	
1.4	16QAM	1	0	19.33	19.24	19.07	
1.4	16QAM	1	3	19.21	19.30	19.25	
1.4	16QAM	1	5	19.31	19.08	19.35	20.5
1.4	16QAM	3	0	18.92	17.97	18.91	
1.4	16QAM	3	1	18.23	18.08	18.07	
1.4	16QAM	3	3	18.10	18.12	18.15	
1.4	16QAM	6	0	18.08	18.31	18.06	
1.4	64QAM	1	0	18.18	18.32	18.27	
1.4	64QAM	1	3	18.21	18.25	18.15	
1.4	64QAM	1	5	18.31	18.19	18.01	
1.4	64QAM	3	0	17.16	17.05	17.05	
1.4	64QAM	3	1	16.99	17.00	17.07	
1.4	64QAM	3	3	17.12	17.05	17.10	19.5
1.4	64QAM	6	0	17.04	17.35	17.06	
1.4	25GQAM	1	0	19.21	19.36	19.31	
1.4	25GQAM	1	3	19.24	19.29	19.19	
1.4	25GQAM	1	5	19.34	19.23	19.05	
1.4	25GQAM	3	0	19.19	19.09	19.09	
1.4	25GQAM	3	1	19.02	19.04	19.11	
1.4	25GQAM	3	3	19.15	19.09	19.14	
1.4	25GQAM	6	0	19.07	19.31	19.10	

3	25GQAM	6	7	17.07	17.00	16.98	Test-log limit (dBm)
3	25GQAM	15	0	17.03	17.06	16.99	
Channel				17.07	17.02	17.05	
Frequency (MHz)				1710.7	1745	1779.3	23.5
1.4	QPSK	1	0	22.19	22.21	22.16	
1.4	QPSK	1	3	21.96	22.08	21.93	
1.4	QPSK	1	5	22.04	22.04	22.01	
1.4	QPSK	3	0	21.15	21.21	21.19	
1.4	QPSK	3	1	21.09	21.17	21.16	
1.4	QPSK	3	3	21.20	21.15	21.17	
1.4	QPSK	6	0	21.15	21.21	21.18	
1.4	16QAM	1	0	21.48	21.41	21.43	
1.4	16QAM	1	3	21.33	21.42	21.19	
1.4	16QAM	1	5	21.27	21.34	21.42	22.5
1.4	16QAM	3	0	20.13	20.06	20.05	
1.4	16QAM	3	1	20.25	20.20	20.08	
1.4	16QAM	3	3	20.19	20.17	20.14	
1.4	16QAM	6	0	20.19	21.20	20.06	
1.4	64QAM	1	0	20.42	20.39	20.40	
1.4	64QAM	1	3	20.30	20.40	20.14	
1.4	64QAM	1	5	20.21	20.04	20.06	
1.4	64QAM	3	0	19.15	19.05	19.05	
1.4	64QAM	3	1	19.17	19.15	19.07	
1.4	64QAM	3	3	19.10	19.11	19.11	21.5
1.4	64QAM	6	0	19.21	19.23	18.99	
1.4	25GQAM	1	0	17.31	17.26	17.23	
1.4	25GQAM	1	3	17.14	17.31	17.04	
1.4	25GQAM	1	5	17.16	17.23	17.31	
1.4	25GQAM	3	0	16.95	17.21	16.90	
1.4	25GQAM	3	1	17.08	17.10	16.91	
1.4	25GQAM	3	3	17.09	17.05	17.00	
1.4	25GQAM	6	0	17.05	17.20	16.91	

Band 41 (2496~2690MHz) (dBm)_Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel		Tune-up limit (dBm)
Channel				39750	40165	40620	41055	41490		
Frequency (MHz)				2500.5	2548.5	2593	2636.5	2680		
20	QPSK	1	0	18.01	17.98	18.03	17.85	18.05	19	
20	QPSK	1	49	17.97	18.04	17.87	17.89	17.85		
20	QPSK	1	99	18.06	17.91	18.02	17.92	17.84		
20	QPSK	50	0	17.29	17.24	17.30	17.15	17.27		
20	QPSK	50	24	17.25	17.22	17.16	17.01	16.98	18	
20	QPSK	50	50	17.27	17.16	17.12	16.96	16.85		
20	QPSK	500	0	17.26	17.22	17.27	17.07	16.95		
20	16QAM	1	0	17.34	17.36	17.30	17.24	17.25		
20	16QAM	1	49	17.27	17.14	17.24	17.17	17.20	18	
20	16QAM	1	99	17.20	17.06	17.29	17.15	17.17		
20	16QAM	50	0	16.36	16.31	16.17	16.11	16.02		
20	16QAM	50	24	16.20	16.14	16.20	16.08	16.05		
20	16QAM	50	50	16.26	16.02	16.05	15.97	16.01	17	
20	16QAM	100	0	16.17	16.14	16.20	16.14	16.15		
20	64QAM	1	0	16.25	16.32	16.23	16.13	16.17		
20	64QAM	1	49	16.24	15.96	16.14	16.06	16.07		
20	64QAM	1	99	16.18	16.00	16.16	16.09	16.12	17	
20	64QAM	50	0	15.30	15.24	15.11	15.04	14.88		
20	64QAM	50	24	15.20	15.15	15.14	15.02	15.06		
20	64QAM	50	50	15.07	15.08	15.09	14.98	15.00		
20	256QAM	100	0	13.26	13.12	13.25	13.16	13.15	16	
20	256QAM	1	0	13.05	13.12	13.03	12.93	12.97		
20	256QAM	1	49	13.04	12.76	12.94	12.85	12.87		
20	256QAM	1	99	12.98	12.89	12.88	12.89	12.92		
20	256QAM	50	0	13.10	13.04	12.91	12.84	12.68	16	
20	256QAM	50	24	13.00	12.95	12.84	12.82	12.86		
20	256QAM	50	50	12.87	12.88	12.89	12.78	12.80		
20	256QAM	100	0	13.06	13.01	13.05	12.96	12.95		
Channel				39725	40173	40620	41068	41515		Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.6	2682.5		
15	QPSK	1	0	17.83	17.80	17.91	17.67	17.87	19	
15	QPSK	1	37	17.79	17.86	17.80	17.71	17.67		
15	QPSK	1	74	17.88	17.73	17.84	17.74	17.66		
15	QPSK	36	0	17.11	17.06	17.12	16.97	17.09		
15	QPSK	36	20	17.07	17.04	16.98	16.83	16.80	18	
15	QPSK	36	36	17.09	16.98	16.94	16.77	16.67		
15	QPSK	75	0	17.08	17.04	16.99	16.89	16.77		
15	16QAM	1	0	17.16	17.18	17.12	17.06	17.07		
15	16QAM	1	37	17.09	16.96	17.06	16.99	17.02	18	
15	16QAM	1	74	17.02	16.88	17.11	16.97	16.99		
15	16QAM	36	0	16.17	16.13	15.99	15.93	15.84		
15	16QAM	36	20	16.11	15.96	16.02	15.90	15.87		
15	16QAM	36	36	16.08	15.84	15.87	15.79	15.83	17	
15	16QAM	75	0	15.99	15.96	16.02	15.96	15.97		
15	64QAM	1	0	16.07	16.14	16.05	15.95	15.99		
15	64QAM	1	37	16.06	15.78	15.96	15.87	15.89		
15	64QAM	1	74	16.00	15.91	16.00	15.91	15.94	17	
15	64QAM	36	0	15.12	15.06	14.93	14.86	14.70		
15	64QAM	36	20	15.02	14.97	14.96	14.84	14.88		
15	64QAM	36	36	14.89	14.90	14.91	14.80	14.82		
15	64QAM	75	0	15.08	15.03	15.07	14.98	14.97	16	
15	256QAM	1	0	12.87	12.94	12.85	12.75	12.79		
15	256QAM	1	37	12.86	12.58	12.76	12.67	12.69		
15	256QAM	1	74	12.80	12.71	12.80	12.71	12.74		
15	256QAM	36	0	12.92	12.86	12.73	12.66	12.50	14	
15	256QAM	36	20	12.82	12.77	12.76	12.64	12.68		
15	256QAM	36	36	12.69	12.70	12.71	12.60	12.62		
15	256QAM	75	0	12.88	12.83	12.87	12.78	12.77		
Channel				39700	40165	40620	41080	41540		Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.83	17.78	17.83	17.76	17.72	19	
10	QPSK	1	25	17.75	17.80	17.69	17.75	17.71		
10	QPSK	1	49	17.88	17.72	17.78	17.76	17.73		
10	QPSK	25	0	17.11	17.03	17.09	16.96	16.82		
10	QPSK	25	12	17.10	16.99	17.01	16.85	16.74	18	
10	QPSK	25	25	17.12	16.93	16.96	16.78	16.69		
10	QPSK	50	0	17.08	17.00	17.02	16.84	16.76		
10	16QAM	1	0	17.16	17.11	17.07	16.98	17.04		
10	16QAM	1	25	17.07	16.97	17.00	16.99	16.97	18	
10	16QAM	1	49	17.03	16.86	17.14	16.97	16.97		
10	16QAM	25	0	16.10	16.13	15.96	15.92	15.79		
10	16QAM	25	12	16.12	15.96	16.01	15.90	15.80		
10	16QAM	25	25	16.05	15.81	15.84	15.82	15.77	17	
10	16QAM	50	0	15.93	15.94	16.02	15.97	15.99		
10	64QAM	1	0	16.08	16.11	15.99	15.92	15.97		
10	64QAM	1	25	16.07	15.72	15.92	15.86	15.84		
10	64QAM	1	49	15.92	15.87	15.96	15.94	15.88	16	
10	64QAM	25	0	15.05	15.07	14.87	14.83	14.73		
10	64QAM	25	12	15.02	14.94	14.90	14.86	14.90		
10	64QAM	25	25	14.92	14.83	14.92	14.81	14.79		
10	64QAM	50	0	15.11	15.05	15.07	14.92	14.97	14	
10	256QAM	1	0	13.24	13.32	13.27	13.07	13.16		
10	256QAM	1	25	13.24	12.96	13.08	13.07	13.06		
10	256QAM	1	49	13.20	13.13	13.14	13.08	13.07		
10	256QAM	25	0	13.32	13.25	13.06	13.01	12.88	14	
10	256QAM	25	12	13.20	13.20	13.17	12.98	13.01		
10	256QAM	25	25	13.12	13.04	13.05	12.92	12.97		
10	256QAM	50	0	13.25	13.23	13.24	13.17	13.17		
Channel				39775	40165	40620	41080	41540		Tune-up limit (dBm)
Frequency (MHz)				2499.5	2543.3	2593	2640.30	2687.5		
5	QPSK	1	0	17.64	17.59	17.74	17.57	17.53	19	
5	QPSK	1	12	17.56	17.61	17.50	17.56	17.52		
5	QPSK	1	24	17.69	17.53	17.59	17.57	17.54		
5	QPSK	12	0	16.92	16.84	16.88	16.77	16.63		
5	QPSK	12	7	16.91	16.80	16.82	16.66	16.55	18	
5	QPSK	12	13	16.93	16.74	16.77	16.59	16.50		
5	QPSK	25	0	16.89	16.81	16.83	16.65	16.57		
5	16QAM	1	0	16.97	16.92	16.88	16.79	16.85		
5	16QAM	1	12	16.88	16.76	16.81	16.80	16.76	18	
5	16QAM	1	24	16.84	16.67	16.95	16.78	16.78		
5	16QAM	12	0	15.91	15.84	15.76	15.73	15.60		
5	16QAM	12	7	15.93	15.77	15.82	15.71	15.61		
5	16QAM	12	13	15.86	15.62	15.65	15.63	15.58	17	
5	16QAM	25	0	14.74	14.75	14.83	14.76	14.80		
5	64QAM	1	0	15.87	15.92	15.80	15.73	15.78		
5	64QAM	1	12	15.88	15.53	15.73	15.67	15.65		
5	64QAM	1	24	15.73	15.68	15.77	15.75	15.69	16	
5	64QAM	12	0	14.86	14.86	14.86	14.64	14.54		
5	64QAM	12	7	14.83	14.75	14.71	14.67	14.71		
5	64QAM	12	13	14.73	14.64	14.73	14.62	14.60		
5	256QAM	24	0	14.92	14.86	14.88	14.73	14.78	14	
5	256QAM	1	0	13.05	13.13	13.08	12.88	12.97		
5	256QAM	1	12	13.05	12.77	12.89	12.88	12.87		
5	256QAM	1	24	13.01	12.94	12.85	12.89	12.88		
5	256QAM	12	0	13.13	13.06	12.87	12.82	12.69	14	
5	256QAM	12	7	13.01	13.01	12.98	12.79	12.82		
5	256QAM	12	13	12.93	12.85	12.86	12.73	12.76		
5	256QAM	25	0	13.06	13.04	13.05	1			

n2 (PC3)_Ant4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	18.86	18.94	18.95	19.50
20		1	53	18.92	18.94	18.94	
20		1	104	18.90	18.91	18.92	
20		50	1	18.54	18.51	18.59	20.00
20	DFT-s-OFDM QPSK	50	25	19.01	19.05	19.09	
20		50	50	18.57	18.54	18.57	
20		100	0	18.56	18.53	18.53	20.00
20		1	1	19.32	19.33	19.26	
20	DFT-s-OFDM QPSK	1	53	19.07	18.94	19.12	
20		1	104	19.08	18.88	19.11	20.00
20		50	1	17.98	18.05	18.03	
20		50	25	19.03	19.05	19.00	
20	DFT-s-OFDM 16QAM	50	50	18.09	18.10	18.03	20.00
20		100	0	18.00	18.05	18.04	
20		1	1	17.85	18.02	18.10	
20		1	1	16.47	16.58	16.60	17.50
20	DFT-s-OFDM 64QAM	1	1	14.16	14.21	14.22	15.00
20	DFT-s-OFDM 256QAM	1	1	17.07	17.52	17.61	18.50
20	CP-OFDM QPSK	1	1	16.85	17.02	17.02	18.00
20	CP-OFDM 16QAM	1	1	15.61	15.66	15.66	16.50
20	CP-OFDM 64QAM	1	1	12.19	12.21	12.27	13.00
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.09	19.03	19.02	20.00
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.05	19.07	19.03	20.00
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.08	18.91	19.16	20.00

n30 (PC3)_Ant4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		15.80		16.50
10		1	26		15.82		
10		1	50		15.70		
10		25	1		15.35		16.50
10		25	12		15.85		
10		25	25		15.36		
10		50	0		15.37		16.50
10		1	1		15.97		
10	DFT-s-OFDM QPSK	1	26		15.92		16.50
10		1	50		15.89		
10		25	1		14.87		16.50
10		25	12		15.82		
10		25	25		14.82		
10		50	0		14.87		
10	DFT-s-OFDM 16QAM	1	1		14.96		15.50
10	DFT-s-OFDM 64QAM	1	1		13.56		14.50
10	DFT-s-OFDM 256QAM	1	1		11.00		12.00
10	CP-OFDM QPSK	1	1		14.41		15.00
10	CP-OFDM 16QAM	1	1		13.90		14.50
10	CP-OFDM 64QAM	1	1		12.53		13.50
10	CP-OFDM 256QAM	1	1		8.96		9.50
Channel				461500	462000	462500	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	15.81	15.82	15.87	16.50

n41 (PC3)_Ant4									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	19.00
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.40	18.39	18.42	18.08	18.07	19.00
100		1	136	18.49	18.45	18.39	18.14	18.14	
100		1	271	18.52	18.64	18.71	18.49	18.53	
100		135	1	18.04	17.99	18.02	17.61	17.66	19.00
100		135	67	18.55	18.55	17.93	18.18	18.23	
100		135	136	18.05	18.02	17.79	17.84	17.87	
100		270	0	18.04	18.19	17.67	17.61	17.65	
100	DFT-s-OFDM QPSK	1	1	18.43	18.57	18.72	18.47	18.51	19.00
100		1	136	18.54	18.42	18.11	18.17	18.13	
100		1	271	18.53	18.59	18.34	18.50	18.53	
100		135	1	17.58	17.51	17.28	17.14	17.15	19.00
100		135	67	18.32	18.28	18.36	18.13	18.19	
100		135	136	17.58	17.47	17.29	17.36	17.35	
100		270	0	17.57	17.53	17.58	17.15	17.17	
100	DFT-s-OFDM 16QAM	1	1	17.47	17.35	17.25	17.13	17.13	18.00
100	DFT-s-OFDM 64QAM	1	1	15.75	15.76	15.44	15.42	15.44	16.50
100	DFT-s-OFDM 256QAM	1	1	13.89	13.91	13.59	13.46	13.46	14.50
100	CP-OFDM QPSK	1	1	16.89	16.90	16.70	16.59	16.57	17.50
100	CP-OFDM 16QAM	1	1	16.41	16.44	16.23	16.07	16.08	17.00
100	CP-OFDM 64QAM	1	1	14.96	15.04	14.65	14.61	14.57	16.00
100	CP-OFDM 256QAM	1	1	11.90	11.97	11.64	11.53	11.52	12.50
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	18.25	18.39	18.31	18.18	18.11	19.00
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	18.22	18.35	18.23	18.13	18.17	19.00
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	18.30	18.35	18.36	18.20	18.22	19.00
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	18.34	18.45	18.43	18.28	18.36	19.00
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	18.29	18.59	18.42	18.39	18.32	19.50
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	18.51	18.60	18.52	18.48	18.42	19.50
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.45	18.60	18.52	18.40	18.39	19.50
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	18.31	18.42	18.38	18.42	18.40	19.00
Channel				500700	509652	518598	527550	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.26	2592.99	2637.75	2682.48	
15	DFT-s-OFDM QPSK	1	1	18.27	18.47	18.43	18.38	18.42	19.00
Channel				500202	509400	518598	527796	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2547	2592.99	2638.98	2685	
10	DFT-s-OFDM QPSK	1	1	18.24	18.36	18.42	18.35	18.48	19.00

n48 (PC3)_Ant3									
BW (MHz)	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	18.90
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.95	17.60	17.08	16.98	16.64	18.90
40		1	53	17.87	17.41	16.80	16.98	17.18	
40		1	104	17.44	17.07	16.95	17.16	16.59	
40		50	1	17.61	17.32	16.50	16.43	16.38	18.40
40		50	25	17.83	17.65	17.00	16.93	16.77	
40		50	50	17.12	17.02	16.38	16.44	16.31	
40		100	0	17.24	17.04	16.49	16.31	16.26	
40	DFT-s-OFDM QPSK	1	1	18.01	17.95	18.33	17.90	17.99	18.90
40		1	53	16.48	17.96	17.46	17.04	15.80	
40		1	104	18.02	17.70	17.47	16.03	17.10	
40		50	1	15.90	16.99	16.68	16.40	15.75	18.40
40		50	25	17.63	17.79	17.88	17.78	17.82	
40		50	50	16.35	16.84	16.88	14.85	14.68	
40		100	0	15.41	17.04	16.51	15.90	15.01	
40	DFT-s-OFDM 16QAM	1	1	15.70	16.86	16.85	16.51	16.03	17.50
40	DFT-s-OFDM 64QAM	1	1	14.65	15.45	15.39	15.04	14.60	16.00
40	DFT-s-OFDM 256QAM	1	1	13.06	12.69	13.23	11.59	11.90	14.00
40	CP-OFDM QPSK	1	1	15.59	16.42	16.37	15.98	15.59	17.00
40	CP-OFDM 16QAM	1	1	15.06	15.99	15.98	15.43	15.05	16.50
40	CP-OFDM 64QAM	1	1	14.33	13.68	13.43	12.97	12.69	15.00
40	CP-OFDM 256QAM	1	1	11.32	11.22	10.87	10.46	10.34	12.00
Channel				637668	639668	641666	643666	645666	Tune-up limit (dBm)
Frequency (MHz)				3585.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	17.57	17.96	17.75	17.47	15.93	18.50
Channel				637334	639500	641666	643832	646000	Tune-up limit (dBm)
Frequency (MHz)				3580.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	17.87	16.79	17.54	16.22	16.30	18.50
Channel				637000	639334	641666	644000	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	17.42	17.86	17.42	15.71	16.11	18.50

n77(3450-3550MHz) (PC2)_Ant2											
BW (MHz)	Modulation	RB num	RB start	Low Channel	inMiddle Channel	Side Channel	SideHigh Channel	High Channel	Turn-up		
Channel						633334			limit		
Frequency (MHz)						3500.01			(dBm)		
100	DFT-s-OFDM P1/2 BPSK	1	1			25.40			26.30		
100		1	136			24.84					
100		1	271			24.63					
100		135	1			24.78			25.30		
100		135	67			24.83					
100		135	136			24.54					
100	DFT-s-OFDM QPSK	270	0			24.69			26.30		
100		1	1			25.46					
100		1	136			24.79					
100		1	271			24.54			25.30		
100		135	1			24.30					
100		135	67			24.83					
100	DFT-s-OFDM 16QAM	135	136			24.13			25.00		
100		270	0			24.21					
100		1	1			24.31					
100		DFT-s-OFDM 64QAM	1	1			22.77			23.50	
100		DFT-s-OFDM 256QAM	1	1			20.76				
100		CP-OFDM QPSK	1	1			24.01				
100	CP-OFDM 16QAM	1	1			23.39			24.00		
100	CP-OFDM 64QAM	1	1			21.90					
100	CP-OFDM 256QAM	1	1			18.86					
Channel				633000	633168	633334	633500	633666	Turn-up		
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.98	limit		
90	DFT-s-OFDM QPSK	1	1	25.07	25.13	25.14	25.15	25.18	limit		
Channel				632668	633000	633334	633666	634000	Turn-up		
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	limit		
80	DFT-s-OFDM QPSK	1	1	25.06	25.07	25.10	25.10	25.03	26.00		
Channel				632334	632634	633334	633632	634332	Turn-up		
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	limit		
70	DFT-s-OFDM QPSK	1	1	25.07	25.10	25.11	25.16	25.12	26.00		
Channel				632000	632668	633334	634000	634666	Turn-up		
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	limit		
60	DFT-s-OFDM QPSK	1	1	25.04	25.02	25.14	25.10	25.09	26.00		
Channel				631668	632000	633334	634166	635000	Turn-up		
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	limit		
50	DFT-s-OFDM QPSK	1	1	25.03	24.94	25.07	25.15	25.09	26.00		
Channel				631334	632034	633334	634332	635332	Turn-up		
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	limit		
40	DFT-s-OFDM QPSK	1	1	25.27	25.24	25.39	25.41	25.43	26.00		
Channel				631000	632168	633334	634500	635666	Turn-up		
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	limit		
30	DFT-s-OFDM QPSK	1	1	25.22	25.16	25.34	25.29	25.32	26.00		
Channel				630634	632094	633334	634584	635832	Turn-up		
Frequency (MHz)				3462.51	3481.26	3500.01	3518.76	3537.48	limit		
25	DFT-s-OFDM QPSK	1	1	25.41	25.36	25.49	25.48	25.54	26.50		
Channel				630668	632000	633334	634666	636000	Turn-up		
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	limit		
20	DFT-s-OFDM QPSK	1	1	24.98	24.95	25.08	25.06	25.10	26.00		
Channel				630500	631916	633334	634750	636166	Turn-up		
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	limit		
15	DFT-s-OFDM QPSK	1	1	24.93	25.00	25.18	25.11	25.22	26.00		
Channel				630334	631834	633334	634834	636332	Turn-up		
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	limit		
10	DFT-s-OFDM QPSK	1	1	24.89	24.99	25.01	25.06	25.03	26.00		

n77(3450-3550MHz) (PC2)_Ant3											
BW (MHz)	Modulation	RB num	RB start	Low Channel	inMiddle Channel	Side Channel	SideHigh Channel	High Channel	Turn-up		
Channel						633334				limit	
Frequency (MHz)						3500.01				(dBm)	
100	DFT-s-OFDM P1/2 BPSK	1	1			17.90			18.80		
100		1	136			17.34					
100		1	271			17.13					
100		135	1			17.28			18.30		
100		135	67			17.33					
100		135	136			17.04					
100		270	0			17.19			18.80		
100		1	1			17.91					
100		1	136			17.29					
100		1	271			17.04			18.30		
100	135	1			16.80						
100	135	67			17.33						
100	DFT-s-OFDM QPSK	135	136			16.83			17.50		
100		270	0			16.71					
100		1	1			16.81					
100	DFT-s-OFDM 16QAM	1	1			15.27			16.00		
100	DFT-s-OFDM 64QAM	1	1			13.26			14.00		
100	CP-OFDM QPSK	1	1			16.51			17.50		
100	CP-OFDM 16QAM	1	1			15.89			16.50		
100	CP-OFDM 64QAM	1	1			14.40			15.00		
100	CP-OFDM 256QAM	1	1			11.36			12.00		
Channel				633000	633168	633334	633500	633696	Turn-up		
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	limit		
90	DFT-s-OFDM QPSK	1	1	17.57	17.63	17.64	17.65	17.68	18.50		
Channel				632998	633000	633334	633696	634000	Turn-up		
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	limit		
80	DFT-s-OFDM QPSK	1	1	17.56	17.57	17.60	17.65	17.53	18.50		
Channel				632934	632934	633334	633632	634332	Turn-up		
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	limit		
70	DFT-s-OFDM QPSK	1	1	17.57	17.60	17.61	17.66	17.62	18.50		
Channel				632900	632968	633334	634000	634696	Turn-up		
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	limit		
60	DFT-s-OFDM QPSK	1	1	17.54	17.52	17.64	17.60	17.75	18.50		
Channel				631868	632500	633334	634166	635000	Turn-up		
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	limit		
50	DFT-s-OFDM QPSK	1	1	17.53	17.44	17.57	17.65	17.59	18.50		
Channel				631834	632334	633334	634332	635332	Turn-up		
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	limit		
40	DFT-s-OFDM QPSK	1	1	17.77	17.74	17.89	17.91	17.93	18.50		
Channel				631900	632168	633334	634500	635696	Turn-up		
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.96	limit		
30	DFT-s-OFDM QPSK	1	1	17.72	17.66	17.84	17.79	17.82	18.50		
Channel				630834	632094	633334	634594	635832	Turn-up		
Frequency (MHz)				3462.51	3481.26	3500.01	3518.76	3537.48	limit		
25	DFT-s-OFDM QPSK	1	1	17.91	17.86	17.99	17.98	18.04	19.00		
Channel				630698	632000	633334	634696	636000	Turn-up		
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	limit		
20	DFT-s-OFDM QPSK	1	1	17.48	17.45	17.58	17.56	17.60	18.50		
Channel				630600	631919	633334	634750	636196	Turn-up		
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	limit		
15	DFT-s-OFDM QPSK	1	1	17.43	17.50	17.68	17.61	17.72	18.50		
Channel				630534	631834	633334	634834	636332	Turn-up		
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	limit		
10	DFT-s-OFDM QPSK	1	1	17.39	17.49	17.51	17.56	17.53	18.50		

n77(3700-3980MHz) (PC2)_Ant2										
BW (MHz)	Modulation	RB num	RB start	Low Channel	inMiddle Channel	Side Channel	Side/High Channel	High Channel	Tune-up	
Channel				650000	653000	656000	659000	662000	limit	
Frequency (MHz)				3750	3795	3840	3885	3930	(dBm)	
100	DFT-s-OFDM P1/2 BPSK	1	1	24.34	25.16	24.44	24.57	24.65	26.30	
100		1	136	24.38	24.60	24.59	24.54	24.51		
100		1	271	24.32	24.61	24.37	24.37	24.49		
100		135	1	24.33	24.49	24.42	24.54	24.48	25.80	
100		135	67	24.39	24.65	24.55	24.58	24.59		
100		135	136	24.19	24.47	24.34	24.32	24.37		
100	DFT-s-OFDM QPSK	270	0	24.28	24.46	24.39	24.47	24.49	26.30	
100		1	1	25.43	25.44	25.50	25.43	25.31		
100		1	136	24.37	24.58	24.58	24.50	24.54		
100		1	271	24.31	24.57	24.36	24.44	24.44	25.80	
100		135	1	23.79	24.02	24.11	24.10	23.98		
100		135	67	24.85	24.82	24.86	24.81	24.80		
100	DFT-s-OFDM 16QAM	135	136	23.72	23.93	23.85	23.80	23.86	25.80	
100		270	0	23.71	24.00	24.01	23.93	23.96		
100		1	1	23.84	24.00	23.90	23.96	24.07	25.00	
100		1	1	22.25	22.41	22.27	22.33	22.37		
100		1	1	20.24	20.52	20.27	20.38	20.39	21.50	
100		1	1	23.30	23.58	23.36	23.50	23.57		
100	CP-OFDM 16QAM	1	1	22.80	23.04	22.79	23.13	23.06	24.00	
100	CP-OFDM 64QAM	1	1	21.25	21.50	21.32	21.52	21.51	22.50	
100	CP-OFDM 256QAM	1	1	18.18	18.55	18.26	18.46	18.46	19.50	
Channel				649666	652334	656000	659166	662332	Tune-up	
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	limit	
90	DFT-s-OFDM QPSK	1	1	24.38	24.57	24.46	24.59	24.59	25.50	
Channel				649334	652666	656000	659332	662666	Tune-up	
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	limit	
80	DFT-s-OFDM QPSK	1	1	24.35	24.67	24.54	24.62	24.65	25.50	
Channel				649000	652500	656000	659500	663000	Tune-up	
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	limit	
70	DFT-s-OFDM QPSK	1	1	24.42	24.57	24.60	24.61	24.72	25.50	
Channel				648666	652334	656000	659666	663332	Tune-up	
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit	
60	DFT-s-OFDM QPSK	1	1	24.45	24.58	24.62	24.51	24.65	25.50	
Channel				648334	652168	656000	659832	663666	Tune-up	
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	limit	
50	DFT-s-OFDM QPSK	1	1	24.53	24.59	24.66	24.72	24.81	25.50	
Channel				648000	652000	656000	660000	664000	Tune-up	
Frequency (MHz)				3720	3780	3840	3900	3960	limit	
40	DFT-s-OFDM QPSK	1	1	24.72	24.78	24.97	25.05	25.12	26.00	
Channel				647668	651834	656000	660166	664332	Tune-up	
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit	
30	DFT-s-OFDM QPSK	1	1	24.70	24.63	24.76	24.76	24.93	25.50	
Channel				647500	651750	656000	660250	664500	Tune-up	
Frequency (MHz)				3712.5	3776.25	3840	3903.75	3967.5	limit	
25	DFT-s-OFDM QPSK	1	1	24.99	24.95	25.04	25.00	25.15	26.00	
Channel				647334	651668	656000	660332	664666	Tune-up	
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit	
20	DFT-s-OFDM QPSK	1	1	24.68	24.63	24.63	24.56	24.93	25.50	
Channel				647168	651584	656000	660416	664832	Tune-up	
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	limit	
15	DFT-s-OFDM QPSK	1	1	24.71	24.61	24.70	24.73	24.95	25.50	
Channel				647000	651500	656000	660500	665000	Tune-up	
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	limit	
10	DFT-s-OFDM QPSK	1	1	24.79	24.83	24.86	24.79	25.02	26.00	

n77(3700-3980MHz) (PC2)_Ant3										
BW (MHz)	Modulation	RB num	RB start	Low Channel	inMiddle Channel	Side Channel	Side/High Channel	High Channel	Tune-up	
Channel				650000	653000	656000	659000	662000	limit	
Frequency (MHz)				3750	3795	3840	3885	3930	(dBm)	
100	DFT-s-OFDM P1/2 BPSK	1	1	16.84	17.66	16.94	17.07	17.15	18.80	
100		1	136	16.88	17.10	17.09	17.04	17.01		
100		1	271	16.82	17.11	16.87	16.87	16.99		
100		135	1	16.83	16.99	16.92	17.04	16.98	18.30	
100		135	67	16.89	17.15	17.05	17.08	17.09		
100		135	136	16.69	16.97	16.84	16.82	16.87		
100	DFT-s-OFDM QPSK	270	0	16.78	16.96	16.89	16.97	16.99	18.80	
100		1	1	17.65	17.68	17.69	17.60	17.60		
100		1	136	16.87	17.08	17.08	17.00	17.04		
100		1	271	16.81	17.07	16.86	16.94	16.94	18.30	
100		135	1	16.29	16.52	16.61	16.60	16.48		
100		135	67	17.35	17.32	17.36	17.31	17.30		
100	DFT-s-OFDM 16QAM	135	136	16.22	16.43	16.35	16.30	16.36	17.50	
100		270	0	16.21	16.50	16.51	16.43	16.46		
100		1	1	16.34	16.50	16.40	16.46	16.57	15.50	
100		1	1	14.75	14.91	14.77	14.83	14.87		
100		1	1	12.74	13.02	12.77	12.88	12.89	14.00	
100		1	1	15.80	16.08	15.86	16.00	16.07		
100	CP-OFDM 16QAM	1	1	15.30	15.54	15.29	15.63	15.58	16.50	15.00
100	CP-OFDM 64QAM	1	1	13.75	14.00	13.82	14.02	14.01		
100	CP-OFDM 256QAM	1	1	10.68	11.05	10.76	10.96	10.96	12.00	
Channel				649666	652334	656000	659166	662332	Tune-up	
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	limit	
90	DFT-s-OFDM QPSK	1	1	16.88	17.07	16.96	17.09	17.09	18.00	
Channel				649334	652668	656000	659332	662666	Tune-up	
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	limit	
80	DFT-s-OFDM QPSK	1	1	16.85	17.17	17.04	17.12	17.15	18.00	
Channel				649000	652500	656000	659500	663000	Tune-up	
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	limit	
70	DFT-s-OFDM QPSK	1	1	16.92	17.07	17.10	17.11	17.22	18.00	
Channel				648666	652334	656000	659666	663332	Tune-up	
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit	
60	DFT-s-OFDM QPSK	1	1	16.95	17.08	17.12	17.01	17.15	18.00	
Channel				648334	652168	656000	659832	663666	Tune-up	
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	limit	
50	DFT-s-OFDM QPSK	1	1	17.03	17.09	17.16	17.22	17.31	18.00	
Channel				648000	652000	656000	660000	664000	Tune-up	
Frequency (MHz)				3720	3780	3840	3900	3960	limit	
40	DFT-s-OFDM QPSK	1	1	17.22	17.28	17.47	17.55	17.62	18.00	
Channel				647666	651934	656000	660166	664332	Tune-up	
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit	
30	DFT-s-OFDM QPSK	1	1	17.20	17.13	17.26	17.26	17.43	18.00	
Channel				647334	651750	656000	660250	664500	Tune-up	
Frequency (MHz)				3712.5	3776.25	3840	3903.75	3967.5	limit	
25	DFT-s-OFDM QPSK	1	1	17.49	17.45	17.54	17.50	17.65	18.50	
Channel				647000	651668	656000	660332	664668	Tune-up	
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3965.99	limit	
20	DFT-s-OFDM QPSK	1	1	17.18	17.13	17.13	17.06	17.43	18.00	
Channel				647168	651594	656000	660418	664832	Tune-up	
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	limit	
15	DFT-s-OFDM QPSK	1	1	17.21	17.11	17.20	17.23	17.45	18.00	
Channel				647000	651500	656000	660500	665000	Tune-up	
Frequency (MHz)				3705	3722.5	3840	3907.5	3975	limit	
10	DFT-s-OFDM QPSK	1	1	17.29	17.33	17.36	17.29	17.52	18.50	

n77(3450-3550MHz) (PC3)_Ant 2										
BW (MHz)	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Side Channel	Side/High Channel	High Channel	Tune-up	limit
	Channel					633334				
	Frequency (MHz)					3500.01				(dBm)
100	DFT-s-OFDM P1/2 BPSK	1	1			21.85			22.50	
100		1	136			21.45				
100		1	271			21.11				
100		135	1			21.89			22.50	
100		135	67			21.55				
100		135	136			21.25				
100	DFT-s-OFDM QPSK	270	0			21.53			22.50	
100		1	1			21.97				
100		1	136			21.45				
100		1	271			21.19			22.50	
100		135	1			21.89				
100		135	67			21.53				
100	DFT-s-OFDM 16QAM	135	136			21.24			22.50	
100		270	0			21.54				
100		1	1			21.96				
100	DFT-s-OFDM 64QAM	1	1			21.82			22.50	
100	DFT-s-OFDM 256QAM	1	1			20.77			21.50	
100	CP-OFDM QPSK	1	1			21.86			22.50	
100	CP-OFDM 16QAM	1	1			21.81			22.50	
100	CP-OFDM 64QAM	1	1			21.71			22.50	
100	CP-OFDM 256QAM	1	1			18.73			19.50	
	Channel			633900	633168	633334	633500	633666	Tune-up	
	Frequency (MHz)			3495	3497.52	3500.01	3502.5	3504.99	limit	
90	DFT-s-OFDM QPSK	1	1	21.80	21.78	21.77	21.86	21.85	22.50	
	Channel			632668	633000	633334	633666	634000	Tune-up	
	Frequency (MHz)			3490.02	3495	3500.01	3504.99	3510	limit	
80	DFT-s-OFDM QPSK	1	1	21.71	21.70	21.75	21.74	21.75	22.50	
	Channel			632334	632634	633334	633832	634332	Tune-up	
	Frequency (MHz)			3485.01	3492.51	3500.01	3507.48	3514.98	limit	
70	DFT-s-OFDM QPSK	1	1	21.82	21.74	21.77	21.74	21.83	22.50	
	Channel			632000	632668	633334	634000	634666	Tune-up	
	Frequency (MHz)			3480	3490.02	3500.01	3510	3519.99	limit	
60	DFT-s-OFDM QPSK	1	1	21.74	21.74	21.82	21.80	21.80	22.50	
	Channel			631668	632500	633334	634166	635000	Tune-up	
	Frequency (MHz)			3475.02	3487.5	3500.01	3510	3525	limit	
50	DFT-s-OFDM QPSK	1	1	21.75	21.70	21.81	21.76	21.86	22.50	
	Channel			631334	632334	633334	634332	635332	Tune-up	
	Frequency (MHz)			3470.01	3485.01	3500.01	3514.98	3529.98	limit	
40	DFT-s-OFDM QPSK	1	1	22.06	22.03	22.07	22.04	21.90	23.00	
	Channel			631000	632168	633334	634500	635666	Tune-up	
	Frequency (MHz)			3465	3482.52	3500.01	3517.5	3534.99	limit	
30	DFT-s-OFDM QPSK	1	1	22.00	21.99	22.02	21.91	21.78	23.00	
	Channel			630634	632084	633334	634584	635832	Tune-up	
	Frequency (MHz)			3462.51	3481.26	3500.01	3518.76	3537.48	limit	
25	DFT-s-OFDM QPSK	1	1	22.18	22.07	22.20	22.20	22.30	23.00	
	Channel			630668	632000	633334	634666	636000	Tune-up	
	Frequency (MHz)			3460.02	3480	3500.01	3519.99	3540	limit	
20	DFT-s-OFDM QPSK	1	1	21.76	21.73	21.82	21.89	21.92	22.50	
	Channel			630500	631916	633334	634750	636166	Tune-up	
	Frequency (MHz)			3457.5	3478.74	3500.01	3521.25	3542.49	limit	
15	DFT-s-OFDM QPSK	1	1	21.85	21.75	21.95	21.90	21.95	22.50	
	Channel			630334	631834	633334	634834	636332	Tune-up	
	Frequency (MHz)			3455.01	3477.51	3500.01	3522.51	3544.99	limit	
10	DFT-s-OFDM QPSK	1	1	21.82	21.58	21.87	21.91	21.86	22.50	

n77(3450-3550MHz) (PC3)_Ant 3										
BW (MHz)	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Side Channel	Side/High Channel	High Channel	Tune-up	limit
	Channel					633334				
	Frequency (MHz)					3500.01				(dBm)
100	DFT-s-OFDM P1/2 BPSK	1	1			14.35			15.00	
100		1	136			13.96				
100		1	271			13.61				
100		135	1			14.19			15.00	
100		135	67			14.05				
100		135	136			13.75				
100	DFT-s-OFDM QPSK	270	0			14.03			15.00	
100		1	1			14.47				
100		1	136			13.95				
100		1	271			13.69			15.00	
100		135	1			14.19				
100		135	67			14.03				
100	DFT-s-OFDM 16QAM	135	136			13.74			15.00	
100		270	0			14.04				
100		1	1			14.46				
100	DFT-s-OFDM 64QAM	1	1			14.32			15.00	
100	DFT-s-OFDM 256QAM	1	1			13.27			14.00	
100	CP-OFDM QPSK	1	1			14.36			15.00	
100	CP-OFDM 16QAM	1	1			14.31			15.00	
100	CP-OFDM 64QAM	1	1			14.21			15.00	
100	CP-OFDM 256QAM	1	1			11.23			12.00	
	Channel			633000	633168	633334	633500	633666	Tune-up	
	Frequency (MHz)			3495	3497.52	3500.01	3502.5	3504.99	limit	
90	DFT-s-OFDM QPSK	1	1	14.30	14.28	14.27	14.36	14.35	15.00	
	Channel			632668	633000	633334	633666	634000	Tune-up	
	Frequency (MHz)			3490.02	3495	3500.01	3504.99	3510	limit	
80	DFT-s-OFDM QPSK	1	1	14.21	14.20	14.25	14.24	14.25	15.00	
	Channel			632334	632634	633334	633832	634332	Tune-up	
	Frequency (MHz)			3485.01	3492.51	3500.01	3507.48	3514.98	limit	
70	DFT-s-OFDM QPSK	1	1	14.32	14.24	14.27	14.24	14.33	15.00	
	Channel			632000	632668	633334	634000	634666	Tune-up	
	Frequency (MHz)			3480	3490.02	3500.01	3510	3519.99	limit	
60	DFT-s-OFDM QPSK	1	1	14.24	14.24	14.32	14.30	14.30	15.00	
	Channel			631668	632500	633334	634166	635000	Tune-up	
	Frequency (MHz)			3475.02	3487.5	3500.01	3510	3525	limit	
50	DFT-s-OFDM QPSK	1	1	14.25	14.20	14.31	14.26	14.16	15.00	
	Channel			631334	632334	633334	634332	635332	Tune-up	
	Frequency (MHz)			3470.01	3485.01	3500.01	3514.98	3529.98	limit	
40	DFT-s-OFDM QPSK	1	1	14.56	14.53	14.57	14.54	14.40	15.50	
	Channel			631000	632168	633334	634500	635666	Tune-up	
	Frequency (MHz)			3465	3482.52	3500.01	3517.5	3534.99	limit	
30	DFT-s-OFDM QPSK	1	1	14.50	14.49	14.52	14.41	14.28	15.50	
	Channel			630634	632084	633334	634584	635832	Tune-up	
	Frequency (MHz)			3462.51	3481.26	3500.01	3518.76	3537.48	limit	
25	DFT-s-OFDM QPSK	1	1	14.68	14.57	14.70	14.70	14.80	15.50	
	Channel			630668	632000	633334	634666	636000	Tune-up	
	Frequency (MHz)			3460.02	3480	3500.01	3519.99	3540	limit	
20	DFT-s-OFDM QPSK	1	1	14.26	14.23	14.32	14.39	14.42	15.00	
	Channel			630500	631916	633334	634750	636166	Tune-up	
	Frequency (MHz)			3457.5	3478.74	3500.01	3521.25	3542.49	limit	
15	DFT-s-OFDM QPSK	1	1	14.35	14.25	14.45	14.40	14.45	15.00	
	Channel			630334	631834	633334	634834	636332	Tune-up	
	Frequency (MHz)			3455.01	3477.51	3500.01	3522.51	3544.99	limit	
10	DFT-s-OFDM QPSK	1	1	14.32	14.08	14.37	14.41	14.36	15.00	

n77(3700-3980MHz) (PC3)_Ant 2										
BW [MHz]	Modulation	RB num	RB start	Low Channel	sw/Middle Channel	Side Channel	side/High Channel	High Channel	Tune-up limit	
Channel				650000	653000	656000	659000	662000	limit	
Frequency [MHz]				3750	3795	3840	3885	3930	(dBm)	
100	DFT-s-OFDM P/2 BPSK	1	1	21.28	21.76	21.44	21.39	21.30	22.50	
100		1	136	21.49	21.53	21.22	21.61	21.62		
100		1	271	21.34	21.24	21.15	21.48	21.70		
100		135	1	21.44	21.67	21.32	21.54	21.48		
100		135	67	21.53	21.58	21.25	21.57	21.64		
100		135	136	21.40	21.32	21.19	21.56	21.64		
100	DFT-s-OFDM QPSK	270	0	21.43	21.57	21.19	21.52	21.56	22.50	
100		1	1	21.60	21.78	21.80	21.68	21.62		
100		1	136	21.50	21.60	21.17	21.60	21.65		
100		1	271	21.30	21.18	21.17	21.41	21.63		
100		135	1	21.40	20.82	21.37	21.50	21.50		
100		135	67	21.52	21.59	21.60	21.58	21.55		
100	DFT-s-OFDM 16QAM	136	136	21.41	21.26	21.15	21.54	21.60	22.50	
100		270	0	21.19	21.33	21.40	21.33	21.37		
100		1	1	21.26	21.70	21.58	21.51	21.47		
100		1	1	21.28	21.53	21.29	21.28	21.14		
100		1	1	20.12	20.57	20.21	20.24	20.13		
100		1	1	21.38	21.79	21.44	21.44	21.47		
100	CP-OFDM 16QAM	1	1	21.25	21.68	21.39	21.38	21.41	22.50	
100	CP-OFDM 64QAM	1	1	21.19	21.71	21.29	21.24	21.38	22.50	
100	CP-OFDM 256QAM	1	1	18.14	18.62	18.31	18.24	18.17	19.50	
Channel				649666	652334	656000	659166	662332	Tune-up limit	
Frequency [MHz]				3744.99	3792.51	3840	3887.49	3934.98	limit	
90	DFT-s-OFDM QPSK	1	1	21.27	21.71	21.44	21.19	21.34	22.50	
Channel				649334	652668	656000	659332	662666	Tune-up limit	
Frequency [MHz]				3740.01	3790.02	3840	3889.98	3939.99	limit	
80	DFT-s-OFDM QPSK	1	1	21.23	21.76	21.38	21.21	21.45	22.50	
Channel				649000	652500	656000	659500	663000	Tune-up limit	
Frequency [MHz]				3735	3787.5	3840	3892.5	3945	limit	
70	DFT-s-OFDM QPSK	1	1	21.33	21.70	21.40	21.22	21.58	22.50	
Channel				648668	652334	656000	659668	663332	Tune-up limit	
Frequency [MHz]				3730.02	3785.01	3840	3894.99	3949.98	limit	
60	DFT-s-OFDM QPSK	1	1	21.34	21.72	21.32	21.21	21.67	22.50	
Channel				648334	652168	656000	659832	663666	Tune-up limit	
Frequency [MHz]				3725.01	3782.52	3840	3894.99	3954.99	limit	
50	DFT-s-OFDM QPSK	1	1	21.44	21.66	21.32	21.35	21.61	22.50	
Channel				648000	652000	656000	660000	664000	Tune-up limit	
Frequency [MHz]				3720	3780	3840	3900	3960	limit	
40	DFT-s-OFDM QPSK	1	1	21.89	22.00	21.68	21.67	22.15	23.00	
Channel				647668	651834	656000	660168	664332	Tune-up limit	
Frequency [MHz]				3715.02	3777.51	3840	3902.49	3964.98	limit	
30	DFT-s-OFDM QPSK	1	1	21.64	21.94	21.49	21.63	22.05	23.00	
Channel				647300	651750	656000	660250	664500	Tune-up limit	
Frequency [MHz]				3712.5	3776.25	3840	3903.75	3967.5	limit	
25	DFT-s-OFDM QPSK	1	1	21.93	22.17	21.81	21.86	22.37	23.00	
Channel				647334	651668	656000	660332	664666	Tune-up limit	
Frequency [MHz]				3710.01	3775.02	3840	3904.98	3969.99	limit	
20	DFT-s-OFDM QPSK	1	1	21.65	21.74	21.39	21.48	22.08	23.00	
Channel				647168	651534	656000	660416	664832	Tune-up limit	
Frequency [MHz]				3707.52	3773.76	3840	3906.24	3972.48	limit	
15	DFT-s-OFDM QPSK	1	1	21.58	21.68	21.33	21.53	21.95	22.50	
Channel				647000	651500	656000	660500	665000	Tune-up limit	
Frequency [MHz]				3705	3772.5	3840	3907.5	3975	limit	
10	DFT-s-OFDM QPSK	1	1	21.59	21.74	21.41	21.62	22.02	23.00	

n77(3700-3980MHz) (PC3)_Ant 3										
BW [MHz]	Modulation	RB num	RB start	Low Channel	sw/Middle Channel	Side Channel	side/High Channel	High Channel	Tune-up	limit
Channel				650000	653000	656000	659000	662000		
Frequency (MHz)				3750	3795	3840	3885	3930		(dBm)
100	DFT-s-OFDM P/2 BPSK	1	1	13.78	14.26	13.94	13.89	13.80	15.00	
100		1	136	13.99	14.03	13.72	14.11	14.12		
100		1	271	13.84	13.74	13.65	13.98	14.20		
100		135	1	13.94	14.17	13.82	14.04	13.98		
100		135	67	14.03	14.08	13.75	14.07	14.14		
100		135	136	13.90	13.82	13.69	14.06	14.14		
100	DFT-s-OFDM QPSK	270	0	13.93	14.07	13.69	14.02	14.06	15.00	
100		1	1	14.10	14.28	14.30	14.18	14.12		
100		1	136	14.00	14.10	13.67	14.10	14.15		
100		1	271	13.80	13.68	13.67	13.91	14.13		
100		135	1	13.90	13.32	13.87	14.00	14.00		
100		135	67	14.02	14.09	14.10	14.08	14.05		
100	DFT-s-OFDM 16QAM	135	136	13.91	13.76	13.65	14.04	14.10	15.00	
100		270	0	13.89	13.83	13.90	13.83	13.87		
100		1	1	13.76	14.20	14.08	14.01	13.97		
100		1	1	13.78	14.03	13.79	13.78	13.84		
100		1	1	12.82	13.07	12.71	12.74	12.83		
100		1	1	13.88	14.29	13.94	13.94	13.97		
100	CP-OFDM QPSK	1	1	13.88	14.29	13.94	13.94	13.97	15.00	
100	CP-OFDM 16QAM	1	1	13.75	14.18	13.89	13.86	13.91	15.00	
100	CP-OFDM 64QAM	1	1	13.89	14.21	13.79	13.74	13.88	15.00	
100	CP-OFDM 256QAM	1	1	10.64	11.12	10.81	10.74	10.67	12.00	
Channel				649666	652334	656000	659166	662332	Tune-up	
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	limit	
90	DFT-s-OFDM QPSK	1	1	13.77	14.21	13.94	13.89	13.84	15.00	
Channel				649334	652668	656000	659332	662666	Tune-up	
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	limit	
80	DFT-s-OFDM QPSK	1	1	13.73	14.26	13.88	13.71	13.95	15.00	
Channel				649000	652500	656000	659500	663000	Tune-up	
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	limit	
70	DFT-s-OFDM QPSK	1	1	13.83	14.20	13.90	13.72	14.08	15.00	
Channel				648668	652334	656000	659668	663332	Tune-up	
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit	
60	DFT-s-OFDM QPSK	1	1	13.84	14.22	13.82	13.71	14.17	15.00	
Channel				648334	652168	656000	659832	663666	Tune-up	
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	limit	
50	DFT-s-OFDM QPSK	1	1	13.94	14.16	13.82	13.85	14.31	15.00	
Channel				648000	652000	656000	660000	664000	Tune-up	
Frequency (MHz)				3720	3780	3840	3900	3960	limit	
40	DFT-s-OFDM QPSK	1	1	14.39	14.50	14.18	14.17	14.68	15.50	
Channel				647668	651834	656000	660168	664332	Tune-up	
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit	
30	DFT-s-OFDM QPSK	1	1	14.14	14.44	13.99	14.13	14.56	15.50	
Channel				647300	651750	656000	660250	664500	Tune-up	
Frequency (MHz)				3712.5	3776.25	3840	3903.75	3967.5	limit	
25	DFT-s-OFDM QPSK	1	1	14.43	14.67	14.31	14.36	14.87	15.50	
Channel				647334	651668	656000	660332	664666	Tune-up	
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit	
20	DFT-s-OFDM QPSK	1	1	14.15	14.24	13.89	13.98	14.58	15.50	
Channel				647168	651584	656000	660416	664832	Tune-up	
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	limit	
15	DFT-s-OFDM QPSK	1	1	14.08	14.18	13.83	14.03	14.46	15.00	
Channel				647000	651500	656000	660500	665000	Tune-up	
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	limit	
10	DFT-s-OFDM QPSK	1	1	14.09	14.24	13.91	14.12	14.52	15.50	

2.4GHz WLAN ANT 5

2.4GHz WLAN ANT 5	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	15.87	16.50	16.00	98.29
		CH 6	2437	15.80	16.50	16.00	
		CH 11	2462	15.97	16.50	16.00	
	802.11g 6Mbps	CH 1	2412	15.53	16.00	15.00	97.61
		CH 6	2437	15.40	16.00	15.00	
		CH 11	2462	15.52	16.00	15.00	
	802.11n-HT20 MCS0	CH 1	2412	14.33	15.00	15.00	97.46
		CH 6	2437	14.28	15.00	15.00	
		CH 11	2462	14.40	15.00	15.00	
	802.11n-HT40 MCS0	CH 3	2422	15.10	16.00	15.00	92.82
		CH 6	2437	15.00	16.00	15.00	
		CH 9	2452	14.67	15.50	15.00	

5.2GHz WLAN ANT 5

5.2GHz WLAN ANT 5	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	10.98	11.50	13.50	97.89
		CH 44	5220	10.79	11.50	13.50	
		CH 48	5240	10.98	11.50	13.50	
	802.11n-HT20 MCS0	CH 36	5180	10.70	11.50	13.50	97.76
		CH 44	5220	10.63	11.50	13.50	
		CH 48	5240	10.66	11.50	13.50	
	802.11n-HT40 MCS0	CH 38	5190	9.79	10.50	11.50	95.59
		CH 46	5230	9.75	10.50	11.50	
		CH 36	5180	10.75	11.50	13.50	97.74
	802.11ac-VHT20 MCS0	CH 44	5220	10.68	11.50	13.50	
		CH 48	5240	10.71	11.50	13.50	
	802.11ac-VHT40 MCS0	CH 38	5190	9.79	10.50	11.50	95.59
		CH 46	5230	9.74	10.50	11.50	
		CH 42	5210	7.68	8.50	9.50	88.89

0.5

5.3GHz WLAN ANT 5

5.3GHz WLAN ANT 5	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	10.88	12.00	13.50	97.20
		CH 60	5300	10.95	12.00	13.50	
		CH 64	5320	10.99	12.00	13.50	
	802.11n-HT20 MCS0	CH 52	5260	10.70	11.50	13.50	97.74
		CH 60	5300	10.80	11.50	13.50	
		CH 64	5320	10.84	11.50	13.50	
	802.11n-HT40 MCS0	CH 54	5270	9.77	10.50	11.50	95.59
		CH 62	5310	9.76	10.50	11.50	
		CH 52	5260	10.74	11.50	13.50	97.74
	802.11ac-VHT20 MCS0	CH 60	5300	10.83	11.50	13.50	
		CH 64	5320	10.86	11.50	13.50	
	802.11ac-VHT40 MCS0	CH 54	5270	9.77	10.50	11.50	94.12
		CH 62	5310	9.73	10.50	11.50	
		CH 58	5290	7.63	8.50	9.50	88.89

5.5GHz WLAN ANT 5

5.5GHz WLAN ANT 5	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	8.46	9.50	12.00	97.89
		CH 120	5600	7.98	8.50	12.00	
		CH 144	5720	7.63	8.50	12.00	
	802.11n-HT20 MCS0	CH 100	5500	8.95	9.50	12.00	97.74
		CH 120	5600	8.48	9.00	12.00	
		CH 144	5720	8.22	9.00	12.00	
	802.11n-HT40 MCS0	CH 102	5510	7.93	9.00	10.00	95.59
		CH 126	5630	7.67	8.50	10.00	
		CH 142	5710	7.27	8.00	10.00	
	802.11ac-VHT20 MCS0	CH 100	5500	8.99	9.50	12.00	97.74
		CH 120	5600	8.81	9.50	12.00	
		CH 144	5720	8.85	9.50	12.00	
	802.11ac-VHT40 MCS0	CH 102	5510	7.92	9.00	10.00	100.00
		CH 126	5630	7.65	8.50	10.00	
		CH 142	5710	7.28	8.00	10.00	
	802.11ac-VHT80 MCS0	CH 106	5530	6.01	7.00	8.00	91.67
		CH 122	5610	5.77	6.50	8.00	
		CH 138	5690	5.14	6.00	8.00	

5.8GHz WLAN ANT 5

5.8GHz WLAN ANT 5	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	9.41	10.00	13.00	97.20
		CH 157	5785	9.86	10.50	13.00	
		CH 165	5825	9.88	10.50	13.00	
	802.11n-HT20 MCS0	CH 149	5745	9.11	10.00	13.00	97.74
		CH 157	5785	9.55	10.50	13.00	
		CH 165	5825	9.61	10.50	13.00	
	802.11n-HT40 MCS0	CH 151	5755	8.28	9.00	11.00	95.59
		CH 159	5795	8.53	9.50	11.00	
		CH 149	5745	9.11	10.00	13.00	97.74
	802.11ac-VHT20 MCS0	CH 157	5785	9.54	10.50	13.00	
		CH 165	5825	9.60	10.50	13.00	
	802.11ac-VHT40 MCS0	CH 151	5755	8.29	9.00	11.00	94.12
		CH 159	5795	8.54	9.50	11.00	
		CH 155	5775	6.60	7.50	9.00	88.89

Reduced Power Level 2

2.4GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 5	802.11b 1Mbps	CH 1	2412	13.37	14.00	13.50	98.29
		CH 6	2437	13.30	14.00	13.50	
		CH 11	2462	13.47	14.00	13.50	
	802.11g 6Mbps	CH 1	2412	13.03	14.00	12.50	97.61
		CH 6	2437	12.90	13.50	12.50	
		CH 11	2462	13.02	14.00	12.50	
	802.11n-HT20 MCS0	CH 1	2412	11.83	12.50	12.50	97.46
		CH 6	2437	11.78	12.50	12.50	
		CH 11	2462	11.90	12.50	12.50	
	802.11n-HT40 MCS0	CH 3	2422	12.60	13.50	12.50	92.82
		CH 6	2437	12.50	13.50	12.50	
		CH 9	2452	12.17	13.00	12.50	

5.2GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 5	802.11a 6Mbps	CH 36	5180	7.84	8.50	10.50	97.89
		CH 44	5220	7.79	8.50	10.50	
		CH 48	5240	7.84	8.50	10.50	
	802.11n-HT20 MCS0	CH 36	5180	7.70	8.50	10.50	97.76
		CH 44	5220	7.63	8.50	10.50	
		CH 48	5240	7.66	8.50	10.50	
	802.11n-HT40 MCS0	CH 38	5190	6.79	7.50	8.50	95.59
		CH 46	5230	6.75	7.50	8.50	
		CH 36	5180	7.75	8.50	10.50	97.74
	802.11ac-VHT20 MCS0	CH 44	5220	7.68	8.50	10.50	
		CH 48	5240	7.71	8.50	10.50	
	802.11ac-VHT40 MCS0	CH 38	5190	6.79	7.50	8.50	95.59
		CH 46	5230	6.74	7.50	8.50	
		CH 42	5210	4.68	5.50	6.50	88.89

5.3GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 5	802.11a 6Mbps	CH 52	5260	8.53	9.50	11.00	97.20
		CH 60	5300	8.60	9.50	11.00	
		CH 64	5320	8.64	9.50	11.00	
	802.11n-HT20 MCS0	CH 52	5260	8.35	9.00	11.00	97.74
		CH 60	5300	8.45	9.00	11.00	
		CH 64	5320	8.49	9.00	11.00	
	802.11n-HT40 MCS0	CH 54	5270	7.42	8.00	9.00	95.59
		CH 62	5310	7.41	8.00	9.00	
		CH 52	5260	8.39	9.00	11.00	97.74
	802.11ac-VHT20 MCS0	CH 60	5300	8.48	9.00	11.00	
		CH 64	5320	8.51	9.00	11.00	
	802.11ac-VHT40 MCS0	CH 54	5270	17.42	18.00	19.00	94.12
		CH 62	5310	17.38	18.00	19.00	
		CH 58	5290	15.28	16.00	17.00	88.89

5.5GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 5	802.11a 6Mbps	CH 100	5500	7.11	7.50	10.50	97.89
		CH 120	5600	6.63	7.00	10.50	
		CH 144	5720	6.28	7.00	10.50	
	802.11n-HT20 MCS0	CH 100	5500	7.60	8.00	10.50	97.74
		CH 120	5600	7.13	7.50	10.50	
		CH 144	5720	6.87	7.50	10.50	
	802.11n-HT40 MCS0	CH 102	5510	6.58	7.00	8.50	95.59
		CH 126	5630	6.32	7.00	8.50	
		CH 142	5710	5.92	6.50	8.50	
	802.11ac-VHT20 MCS0	CH 100	5500	7.78	8.00	10.50	97.74
		CH 120	5600	7.17	8.00	10.50	
		CH 144	5720	6.90	7.50	10.50	
	802.11ac-VHT40 MCS0	CH 102	5510	6.57	7.00	8.50	100.00
		CH 126	5630	6.30	7.00	8.50	
		CH 142	5710	5.93	6.50	8.50	
	802.11ac-VHT80 MCS0	CH 106	5530	4.66	5.50	6.50	91.67
		CH 122	5610	4.42	5.00	6.50	
		CH 138	5690	3.79	4.50	6.50	

5.8GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 5	802.11a 6Mbps	CH 149	5745	6.86	7.50	10.50	97.20
		CH 157	5785	7.27	7.50	10.50	
		CH 165	5825	7.33	7.50	10.50	
	802.11n-HT20 MCS0	CH 149	5745	6.76	7.50	10.50	97.74
		CH 157	5785	7.20	7.50	10.50	
		CH 165	5825	7.26	7.50	10.50	
	802.11n-HT40 MCS0	CH 151	5755	5.93	6.50	8.50	95.59
		CH 159	5795	6.18	7.00	8.50	
		CH 149	5745	6.76	7.50	10.50	97.74
	802.11ac-VHT20 MCS0	CH 157	5785	7.19	7.50	10.50	
		CH 165	5825	7.25	7.50	10.50	
	802.11ac-VHT40 MCS0	CH 151	5755	5.94	6.50	8.50	94.12
		CH 159	5795	6.19	7.00	8.50	
		CH 155	5775	4.25	5.00	6.50	88.89

Reduced Power Level 3

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	19.90	19.98	19.84	21.00	18.89	19.02	18.92	20.00
3GPP Rel 5	HSDPA Subtest-1	18.76	18.89	18.88	19.50	17.96	18.03	17.93	18.50
3GPP Rel 5	HSDPA Subtest-2	18.93	18.95	18.80	19.50	17.98	17.53	17.89	18.50
3GPP Rel 5	HSDPA Subtest-3	18.36	18.57	18.48	19.00	17.48	17.63	17.54	18.50
3GPP Rel 5	HSDPA Subtest-4	18.48	18.44	18.38	19.00	17.50	17.63	17.51	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.06	19.12	19.00	20.00	18.14	18.13	18.11	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.00	19.05	19.06	20.00	18.18	18.12	18.14	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.49	18.63	18.56	19.50	17.61	17.70	17.60	18.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.52	18.52	18.53	19.50	17.63	17.68	17.62	18.50
3GPP Rel 6	HSUPA Subtest-1	18.91	18.98	18.99	19.50	17.98	18.01	17.86	18.50
3GPP Rel 6	HSUPA Subtest-2	18.50	18.40	18.41	19.00	17.50	17.63	17.24	18.00
3GPP Rel 6	HSUPA Subtest-3	18.87	18.96	18.87	19.50	18.02	18.08	17.95	18.50
3GPP Rel 6	HSUPA Subtest-4	18.92	19.01	18.86	19.50	18.03	18.07	17.90	18.50
3GPP Rel 6	HSUPA Subtest-5	18.84	18.97	18.88	19.50	17.99	18.14	17.83	18.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.69	18.70	18.68	19.50	21.74	21.69	21.74	22.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	19.98			Max.	19.02	

Band 2 (1900MHz Band) (dBm)_Ant0												
Part 24E												
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Turn-up limit (dBm)					
Channel												
Frequency (MHz)												
20	QPSK	1	0	18700	18800	19100	21.5					
20	QPSK	1	49	18640	18840	19038						
20	QPSK	1	99	18623	18930	19027						
20	QPSK	50	0	1937	1940	1938	20.5					
20	QPSK	50	24	1941	1935	1933						
20	QPSK	50	50	1938	1941	1934						
20	QPSK	100	0	1941	1942	1931	20.5					
20	16QAM	1	0	1958	1959	1942						
20	16QAM	1	49	1956	1956	1940						
20	16QAM	1	99	1966	1943	1970	19.5					
20	16QAM	50	0	1837	1832	1836						
20	16QAM	50	24	1858	1843	1842						
20	16QAM	50	50	1845	1846	1830	19.5					
20	16QAM	100	0	1843	1845	1841						
20	64QAM	1	0	1853	1867	1862	19.5					
20	64QAM	1	49	1856	1860	1850						
20	64QAM	1	99	1866	1854	1836						
20	64QAM	15	0	1751	1754	1740	18.5					
20	64QAM	50	24	1734	1735	1742						
20	64QAM	50	50	1747	1740	1745						
20	256QAM	1	0	1527	1542	1537	16.5					
20	256QAM	1	49	1530	1535	1525						
20	256QAM	1	99	1540	1529	1511						
20	256QAM	50	0	1526	1515	1515	16.5					
20	256QAM	50	24	1508	1510	1517						
20	256QAM	50	50	1521	1513	1520						
20	256QAM	100	0	1513	1517	1516	16.5					
Channel												
Frequency (MHz)												
15	QPSK	1	0	2033	2034	2031	21.5					
15	QPSK	1	37	2024	2036	2019						
15	QPSK	1	74	2016	2023	2020						
15	QPSK	36	0	1930	1942	1931	20.5					
15	QPSK	36	20	1934	1928	1926						
15	QPSK	36	39	1931	1934	1927						
15	16QAM	1	0	1935	1934	1934	20.5					
15	16QAM	1	0	1961	1952	1935						
15	16QAM	1	37	1946	1956	1953						
15	16QAM	1	74	1959	1935	1963	19.5					
15	16QAM	36	0	1830	1830	1829						
15	16QAM	36	20	1831	1836	1835						
15	16QAM	36	39	1838	1841	1843	19.5					
15	16QAM	75	0	1836	1836	1834						
15	64QAM	1	0	1846	1860	1855						
15	64QAM	1	37	1849	1853	1843	19.5					
15	64QAM	1	74	1859	1847	1829						
15	64QAM	36	0	1732	1732	1730						
15	64QAM	36	20	1727	1728	1735	18.5					
15	64QAM	36	39	1740	1733	1738						
15	64QAM	75	0	1732	1735	1734						
15	64QAM	1	0	1520	1535	1530	16.5					
15	256QAM	1	37	1523	1526	1518						
15	256QAM	1	74	1533	1522	1504						
15	256QAM	36	0	1516	1508	1508	16.5					
15	256QAM	36	20	1501	1503	1510						
15	256QAM	36	39	1514	1506	1513						
15	256QAM	75	0	1506	1510	1509	16.5					
Channel												
Frequency (MHz)												
10	QPSK	1	0	1865	1880	19100	21.5					
10	QPSK	1	25	1860	1880	1900						
10	QPSK	1	49	1850	1880	1900						
10	QPSK	25	0	1921	1933	1922	20.5					
10	QPSK	25	12	1925	1919	1917						
10	QPSK	25	25	1922	1925	1918						
10	QPSK	50	0	1926	1926	1915	20.5					
10	QPSK	50	0	1952	1945	1925						
10	16QAM	1	25	1940	1949	1944						
10	16QAM	1	49	1950	1927	1954	20.5					
10	16QAM	25	0	1821	1816	1820						
10	16QAM	25	12	1842	1827	1826						
10	16QAM	25	25	1829	1832	1834	19.5					
10	16QAM	50	0	1827	1829	1825						
10	64QAM	1	0	1837	1851	1846						
10	64QAM	1	25	1840	1844	1834	19.5					
10	64QAM	1	49	1850	1838	1820						
10	64QAM	25	0	1735	1734	1734						
10	64QAM	25	12	1718	1719	1726	18.5					
10	64QAM	25	25	1731	1724	1728						
10	64QAM	50	0	1723	1726	1725						
10	256QAM	1	0	1511	1526	1521	16.5					
10	256QAM	1	25	1514	1519	1509						
10	256QAM	1	49	1524	1513	1495						
10	256QAM	25	0	1508	1499	1489	16.5					
10	256QAM	25	12	1492	1494	1501						
10	256QAM	25	25	1505	1498	1504						
10	256QAM	50	0	1497	1501	1500	16.5					
Channel												
Frequency (MHz)												
5	QPSK	1	0	2021	2032	2019	21.5					
5	QPSK	1	12	2012	2014	2007						
5	QPSK	1	24	2004	2011	2008						
5	QPSK	12	0	1916	1930	1919	20.5					
5	QPSK	12	7	1922	1916	1914						
5	QPSK	12	13	1916	1922	1915						
5	16QAM	1	0	1920	1923	1912	20.5					
5	16QAM	1	0	1949	1940	1923						
5	16QAM	1	12	1937	1946	1941						
5	16QAM	1	24	1947	1924	1951	19.5					
5	16QAM	12	0	1818	1814	1817						
5	16QAM	12	7	1839	1824	1823						
5	16QAM	12	13	1826	1829	1831	19.5					
5	16QAM	25	0	1824	1826	1822						
5	64QAM	1	0	1834	1848	1843	19.5					
5	64QAM	1	12	1837	1841	1831						
5	64QAM	1	24	1847	1836	1817						
5	64QAM	12	0	1732	1721	1721	18.5					
5	64QAM	12	7	1715	1715	1723						
5	64QAM	12	13	1728	1721	1726						
5	64QAM	25	0	1720	1723	1722	16.5					
5	256QAM	1	0	1508	1523	1518						
5	256QAM	1	12	1511	1516	1506						
5	256QAM	1	24	1521	1510	1502	16.5					
5	256QAM	12	0	1506	1498	1496						
5	256QAM	12	7	1497	1491	1498						
5	256QAM	12	13	1502	1496	1501	16.5					
5	256QAM	25	0	1494	1498	1497						
Channel												
Frequency (MHz)												
3	QPSK	1	0	2012	2025	2010	21.5					
3	QPSK	1	8	2003	2005	1998						
3	QPSK	1	14	1995	2002	1999						
3	QPSK	8	0	1909	1921	1930	20.5					
3	QPSK	8	4	1913	1907	1905						
3	QPSK	8	7	1910	1913	1906						
3	QPSK	15	0	1913	1914	1903	20.5					
3	16QAM	1	0	1840	1921	1914						
3	16QAM	1	8	1838	1937	1932	20.5					
3	16QAM	1	14	1836	1915	1942						
3	16QAM	8	0	1809	1804	1808						
3	16QAM	8	4	1826	1816	1814	19.5					
3	16QAM	8	7	1817	1820	1822						
3	16QAM	15	0	1815	1817	1813						
3	64QAM	1	0	1825	1839	1834	19.5					
3	64QAM	1	8	1828	1832	1822						
3	64QAM	1	14	1838	1826	1808						
3	64QAM	8	0	1723	1712	1712	18.5					
3	64QAM	8	4	1706	1707	1714						
3	64QAM	8	7	1719	1712	1717						
3	64QAM	15	0	1711	1714	1713	18.5					
3	64QAM	15	4	1704	1703	1710						
3	256QAM	1	0	1531	1536	1526						
3	256QAM	1	14	1541	1530	1512	16.5					
3	256QAM	8	0	1528	1526	1516						
3	256QAM	8	4	1529	1511	1513						
3	256QAM	8	7	1522	1516	1521	16.5					

3	25GQAM	15	0	15.14	15.18	15.17	
Channel				1509.7	1509	1519.1	Tune-up limit (dBm)
Frequency (MHz)				1509.7	1509	1519.1	
1.4	QPSK	1	0	20.05	20.19	20.03	21.5
1.4	QPSK	1	3	19.96	19.98	19.91	
1.4	QPSK	1	5	19.88	19.95	19.92	
1.4	QPSK	3	0	19.02	19.14	19.03	
1.4	QPSK	3	1	19.06	19.09	18.99	
1.4	QPSK	3	3	19.03	19.08	18.99	
1.4	QPSK	6	0	19.06	19.40	18.96	20.5
1.4	16QAM	1	0	19.33	19.24	19.07	20.5
1.4	16QAM	1	3	19.21	19.39	19.28	
1.4	16QAM	1	5	19.31	19.08	19.35	
1.4	16QAM	3	0	18.62	17.97	18.01	
1.4	16QAM	3	1	18.23	18.08	18.07	
1.4	16QAM	3	3	18.10	18.13	18.15	
1.4	16QAM	6	0	18.08	18.21	18.06	19.5
1.4	64QAM	1	0	18.18	18.32	18.27	19.5
1.4	64QAM	1	3	18.21	18.25	18.15	
1.4	64QAM	1	5	18.31	18.19	18.01	
1.4	64QAM	3	0	17.16	17.05	17.05	
1.4	64QAM	3	1	16.95	17.05	17.07	
1.4	64QAM	3	3	17.12	17.05	17.10	
1.4	64QAM	6	0	17.04	17.35	17.06	18.5
1.4	256QAM	1	0	15.21	15.35	15.31	16.5
1.4	256QAM	1	3	15.24	15.23	15.19	
1.4	256QAM	1	5	15.34	15.23	15.09	
1.4	256QAM	3	0	15.19	15.09	15.09	
1.4	256QAM	3	1	15.02	15.04	15.11	
1.4	256QAM	3	3	15.16	15.09	15.14	
1.4	256QAM	6	0	15.07	15.31	15.10	16.5

3	25GQAM	15	0	14.08	14.12	14.11	
Channel				1399.7	2017.5	2031.1	Tune-up limit (dBm)
Frequency (MHz)				1399.7	1923.3	1794.3	
1.4	QPSK	1	0	19.17	19.23	19.21	20.5
1.4	QPSK	1	3	19.17	19.19	19.12	
1.4	QPSK	1	5	19.09	19.18	19.13	
1.4	QPSK	3	0	18.23	18.35	18.24	
1.4	QPSK	3	1	18.27	18.21	18.19	
1.4	QPSK	3	3	18.24	18.27	18.20	
1.4	QPSK	6	0	18.27	18.28	18.17	19.5
1.4	16QAM	1	0	18.54	18.45	18.28	19.5
1.4	16QAM	1	3	18.42	18.51	18.46	
1.4	16QAM	1	5	18.52	18.29	18.56	
1.4	16QAM	3	0	17.23	17.18	17.22	
1.4	16QAM	3	1	17.44	17.29	17.28	
1.4	16QAM	3	3	17.31	17.34	17.36	
1.4	16QAM	6	0	17.29	17.31	17.27	18.5
1.4	64QAM	1	0	17.39	17.53	17.48	18.5
1.4	64QAM	1	3	17.42	17.46	17.36	
1.4	64QAM	1	5	17.52	17.40	17.22	
1.4	64QAM	3	0	16.37	16.36	16.26	
1.4	64QAM	3	1	16.20	16.21	16.28	
1.4	64QAM	3	3	16.33	16.26	16.31	
1.4	64QAM	6	0	16.25	16.28	16.27	17.5
1.4	256QAM	1	0	14.13	14.29	14.23	15.5
1.4	256QAM	1	3	14.16	14.21	14.11	
1.4	256QAM	1	5	14.26	14.15	13.97	
1.4	256QAM	3	0	14.11	14.01	14.01	
1.4	256QAM	3	1	13.94	13.96	14.03	
1.4	256QAM	3	3	14.07	14.01	14.06	
1.4	256QAM	6	0	13.99	14.20	14.02	15.5

3	25GQAM	15	0	15.20	15.19	14.99	
Channel				2004.7	2019	2033	Tune-up limit (dBm)
Frequency (MHz)				1993.7	1993.5	1944.3	
1.4	QPSK	1	0	20.08	20.35	20.15	21.5
1.4	QPSK	1	3	20.06	20.03	20.00	
1.4	QPSK	1	5	20.04	19.95	19.93	
1.4	QPSK	3	0	19.21	19.22	19.19	
1.4	QPSK	3	1	19.18	19.14	19.16	
1.4	QPSK	3	3	19.17	19.08	19.10	
1.4	QPSK	6	0	19.16	19.17	19.16	20.5
1.4	16QAM	1	0	19.09	19.09	19.11	19.5
1.4	16QAM	1	3	19.19	19.13	19.14	
1.4	16QAM	1	5	19.00	19.12	19.13	
1.4	16QAM	3	0	18.21	18.06	18.07	
1.4	16QAM	3	1	18.11	18.10	18.00	
1.4	16QAM	3	3	18.06	18.04	18.05	
1.4	16QAM	6	0	18.05	18.14	18.04	18.5
1.4	64QAM	1	0	18.12	18.13	18.06	19.5
1.4	64QAM	1	3	18.07	18.09	18.16	
1.4	64QAM	1	5	18.14	18.11	18.09	
1.4	64QAM	3	0	18.10	18.05	18.06	
1.4	64QAM	3	1	18.10	18.16	18.07	
1.4	64QAM	3	3	18.01	18.07	18.01	
1.4	64QAM	6	0	17.16	17.25	16.95	18.5
1.4	256QAM	1	0	15.19	15.20	15.13	16.5
1.4	256QAM	1	3	15.14	15.15	15.23	
1.4	256QAM	1	5	15.21	15.18	15.16	
1.4	256QAM	3	0	15.17	15.12	15.15	
1.4	256QAM	3	1	15.17	15.23	15.14	
1.4	256QAM	3	3	15.08	15.14	15.08	
1.4	256QAM	6	0	15.23	15.22	15.02	16.5

Band 30 (dBm)_Ant0&Ant4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				2385	2775		
Frequency (MHz)				2385	2775		
10	QPSK	1	0	15.02			19
10	QPSK	1	25	17.93			
10	QPSK	1	49	17.93			
10	QPSK	25	0	17.26			18
10	QPSK	25	12	17.02			
10	QPSK	25	25	17.01			
10	QPSK	50	0	17.03			18
10	16QAM	1	0	17.22			
10	16QAM	1	25	17.19			
10	16QAM	1	49	17.26			17
10	16QAM	25	0	16.96			
10	16QAM	25	12	16.93			
10	16QAM	50	0	16.94			17
10	64QAM	1	0	16.28			
10	64QAM	1	25	16.02			17
10	64QAM	1	49	16.18			
10	64QAM	25	0	16.12			
10	64QAM	25	12	15.97			16
10	64QAM	25	25	15.92			
10	64QAM	50	0	15.04			
10	256QAM	1	0	12.87			14
10	256QAM	1	25	12.71			
10	256QAM	1	49	12.87			
10	256QAM	25	0	12.95			14
10	256QAM	25	12	12.75			
10	256QAM	25	25	12.70			
10	256QAM	50	0	12.72			
Channel				2766.5	2771.5	2775.5	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	17.86	17.96	17.85	19
5	QPSK	1	12	17.77	17.77	17.80	
5	QPSK	1	24	17.81	17.75	17.82	
5	QPSK	12	0	16.87	16.96	16.88	18
5	QPSK	12	7	16.93	16.99	16.88	
5	QPSK	12	13	16.91	16.97	16.90	
5	QPSK	25	0	16.76	16.86	16.80	18
5	16QAM	1	0	17.12	17.06	17.12	
5	16QAM	1	12	17.07	17.03	17.07	
5	16QAM	1	24	17.10	17.11	17.16	17
5	16QAM	12	0	16.92	16.91	16.99	
5	16QAM	12	7	16.88	16.88	16.92	
5	16QAM	12	13	16.87	16.95	16.85	17
5	16QAM	25	0	16.85	16.87	16.86	
5	64QAM	1	0	16.14	16.16	16.10	
5	64QAM	1	12	15.99	15.93	15.92	17
5	64QAM	1	24	16.09	16.04	16.05	
5	64QAM	12	0	15.92	14.95	14.94	
5	64QAM	12	7	14.98	14.96	14.98	16
5	64QAM	12	13	14.91	14.90	14.92	
5	64QAM	25	0	14.92	14.94	14.96	
5	256QAM	1	0	12.89	12.95	12.87	14
5	256QAM	1	12	12.70	12.69	12.68	
5	256QAM	1	24	12.85	12.83	12.81	
5	256QAM	12	0	12.69	12.75	12.71	14
5	256QAM	12	7	12.69	12.70	12.72	
5	256QAM	12	13	12.59	12.60	12.64	
5	256QAM	25	0	12.63	12.65	12.71	

Band 66 (dBm)_Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				1335.2	1335.2	1335.2	
Frequency (MHz)				1335.2	1345	1345	
20	QPSK	1	0	19.65	19.67	19.62	20.5
20	QPSK	1	49	19.22	19.34	19.19	
20	QPSK	1	99	19.30	19.30	19.27	
20	QPSK	50	0	18.42	18.47	18.45	19.5
20	QPSK	50	24	18.35	18.43	18.42	
20	QPSK	50	50	18.48	18.41	18.43	
20	QPSK	100	0	18.42	18.47	18.44	19.5
20	16QAM	1	0	18.72	18.67	18.69	
20	16QAM	1	49	18.59	18.68	18.40	
20	16QAM	1	99	18.53	18.60	18.68	19.5
20	16QAM	50	0	17.39	17.32	17.31	
20	16QAM	50	24	17.51	17.46	17.34	
20	16QAM	50	50	17.41	17.45	17.43	18.5
20	16QAM	100	0	17.45	17.42	17.32	
20	64QAM	1	0	17.68	17.65	17.66	18.5
20	64QAM	1	49	17.56	17.66	17.40	
20	64QAM	1	99	17.47	17.60	17.61	
20	64QAM	15	0	16.36	16.31	16.31	17.5
20	64QAM	50	24	16.43	16.41	16.33	
20	64QAM	50	50	16.36	16.37	16.37	
20	64QAM	100	0	16.47	16.36	16.25	15.5
20	256QAM	1	0	14.97	14.92	14.99	
20	256QAM	1	49	14.80	14.97	14.90	
20	256QAM	1	99	14.82	14.49	14.57	15.5
20	256QAM	50	0	14.22	14.15	14.16	
20	256QAM	50	24	14.32	14.36	14.17	
20	256QAM	50	50	14.35	14.28	14.26	15.5
20	256QAM	100	0	14.31	14.34	14.17	
Channel				1336.7	1335.2	1336.7	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.26	19.28	19.23	20.5
15	QPSK	1	37	19.03	19.15	19.00	
15	QPSK	1	74	19.11	19.11	19.08	
15	QPSK	36	0	18.23	18.28	18.26	19.5
15	QPSK	36	20	18.16	18.24	18.23	
15	QPSK	36	39	18.27	18.22	18.24	
15	QPSK	75	0	18.21	18.28	18.25	19.5
15	16QAM	1	0	18.53	18.48	18.50	
15	16QAM	1	37	18.40	18.49	18.26	
15	16QAM	1	74	18.34	18.41	18.48	18.5
15	16QAM	36	0	17.26	17.13	17.07	
15	16QAM	36	20	17.32	17.27	17.15	
15	16QAM	36	39	17.25	17.24	17.21	18.5
15	16QAM	75	0	17.26	17.23	17.13	
15	64QAM	1	0	17.45	17.46	17.47	
15	64QAM	1	37	17.37	17.47	17.21	18.5
15	64QAM	1	74	17.28	17.41	17.42	
15	64QAM	36	0	16.17	16.12	16.12	17.5
15	64QAM	36	20	16.24	16.22	16.14	
15	64QAM	36	39	16.17	16.16	16.16	
15	64QAM	75	0	16.28	16.17	16.06	15.5
15	256QAM	1	0	14.38	14.33	14.40	
15	256QAM	1	37	14.21	14.38	14.11	
15	256QAM	1	74	14.23	14.30	14.38	15.5
15	256QAM	36	0	14.07	13.96	13.97	
15	256QAM	36	20	14.13	14.17	13.98	
15	256QAM	36	39	14.16	14.09	14.07	15.5
15	256QAM	75	0	14.12	14.15	13.98	
Channel				1335.2	1335.2	1335.2	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1772	
10	QPSK	1	0	19.19	19.21	19.16	20.5
10	QPSK	1	25	18.96	19.08	18.93	
10	QPSK	1	49	19.04	19.04	19.01	
10	QPSK	25	0	18.16	18.21	18.19	19.5
10	QPSK	25	12	18.09	18.17	18.16	
10	QPSK	25	25	18.20	18.15	18.17	
10	QPSK	50	0	18.16	18.21	18.18	19.5
10	16QAM	1	0	18.45	18.41	18.43	
10	16QAM	1	25	18.33	18.42	18.19	
10	16QAM	1	49	18.27	18.34	18.42	18.5
10	16QAM	25	0	17.13	17.06	17.05	
10	16QAM	25	12	17.25	17.20	17.08	
10	16QAM	25	25	17.16	17.17	17.14	18.5
10	16QAM	50	0	17.19	17.15	17.06	
10	64QAM	1	0	17.42	17.39	17.40	18.5
10	64QAM	1	25	17.30	17.40	17.14	
10	64QAM	1	49	17.21	17.34	17.35	
10	64QAM	25	0	16.10	16.05	16.05	17.5
10	64QAM	25	12	16.17	16.15	16.07	
10	64QAM	25	25	16.10	16.11	16.11	
10	64QAM	50	0	16.21	16.10	15.99	15.5
10	256QAM	1	0	14.31	14.26	14.33	
10	256QAM	1	25	14.14	14.31	14.04	
10	256QAM	1	49	14.16	14.23	14.31	15.5
10	256QAM	25	0	13.96	14.21	13.90	
10	256QAM	25	12	14.06	14.10	13.91	
10	256QAM	25	25	14.09	14.02	14.00	15.5
10	256QAM	50	0	14.05	14.08	13.91	
Channel				1336.7	1335.2	1336.7	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.13	19.15	19.10	20.5
5	QPSK	1	12	18.90	19.02	18.87	
5	QPSK	1	24	18.98	18.98	18.95	
5	QPSK	12	0	18.10	18.15	18.13	19.5
5	QPSK	12	7	18.03	18.11	18.10	
5	QPSK	12	13	18.14	18.09	18.11	
5	QPSK	25	0	18.10	18.15	18.12	19.5
5	16QAM	1	0	18.40	18.35	18.37	
5	16QAM	1	12	18.27	18.36	18.13	19.5
5	16QAM	1	24	18.21	18.28	18.36	
5	16QAM	12	0	17.07	17.00	16.99	
5	16QAM	12	7	17.18	17.14	17.02	18.5
5	16QAM	12	13	17.11	17.11	17.06	
5	16QAM	25	0	17.13	17.10	17.00	18.5
5	64QAM	1	0	17.36	17.33	17.34	
5	64QAM	1	12	17.24	17.34	17.07	
5	64QAM	1	24	17.16	17.28	17.29	18.5
5	64QAM	12	0	16.04	15.99	15.99	
5	64QAM	12	7	16.11	16.09	16.01	
5	64QAM	12	13	16.04	16.05	16.05	17.5
5	64QAM	25	0	16.15	16.04	15.93	
5	256QAM	1	0	14.28	14.23	14.27	15.5
5	256QAM	1	12	14.08	14.25	13.98	
5	256QAM	1	24	14.10	14.17	14.25	
5	256QAM	12	0	13.90	14.15	13.84	15.5
5	256QAM	12	7	14.06	14.04	13.85	
5	256QAM	12	13	14.03	13.96	13.94	
5	256QAM	25	0	13.99	14.02	13.85	15.5
5	256QAM	25	12	13.99	14.02	13.85	
Channel				1331.97	1332.52	1335.67	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1739	1761	
3	QPSK	1	0	18.94	19.06	18.91	20.5
3	QPSK	1	14	19.02	19.02	18.99	
3	QPSK	8	0	18.14	18.19	18.17	
3	QPSK	8	7	18.16	18.14	18.14	19.5
3	QPSK	8	14	18.13	18.13	18.15	
3	QPSK	16	0	18.14	18.19	18.16	
3	16QAM	1	0	18.44	18.39	18.41	19.5
3	16QAM	1	14	18.31	18.40	18.17	
3	16QAM	1	28	18.29	18.32	18.40	
3	16QAM	8	0	17.11	17.04	17.03	18.5
3	16QAM	8	7	17.23	17.18	17.06	
3	16QAM	8	14	17.16	17.15	17.12	
3	16QAM	16	0	17.17	17.14	17.04	18.5
3	64QAM	1	0	17.40	17.37	17.38	
3	64QAM	1	14	17.28	17.36	17.12	
3	64QAM	1	14	17.19	17.32	17.33	17.5
3	64QAM	8	0	16.08	16.03	16.03	
3	64QAM	8	4	16.15	16.10	16.05	
3	64QAM	8	7	16.09	16.09	16.09	17.5
3	64QAM	16	0	16.19	16.08	15.97	
3	256QAM	1	0	14.29	14.24	14.31	
3	256QAM	1	8	14.34	14.29	14.02	15.5
3	256QAM	1	14	14.14	14.21	14.29	
3	256QAM	8	0	13.94	14.19	13.88	
3	256QAM	8	4	14.04	14.08	13.89	15.5
3	256QAM	8	7	14.01	14.01	13.98	
3	256QAM	16	0	13.99	14.01	13.98	



3	25GQAM	15	0	14.03	14.06	13.89	
Channel				13.1079	13.232	13.096	Tune-up limit (dBm)
Frequency (MHz)				13.107	13.44	13.233	
1.4	QPSK	1	0	19.19	19.21	19.16	20.5
1.4	QPSK	1	3	18.90	19.08	18.83	
1.4	QPSK	1	5	19.04	19.04	19.01	
1.4	QPSK	3	0	18.10	18.21	18.19	
1.4	QPSK	3	1	18.00	18.17	18.16	
1.4	QPSK	3	3	18.20	18.15	18.17	
1.4	QPSK	6	0	18.16	18.21	18.18	19.5
1.4	16QAM	1	0	18.40	18.41	18.43	19.5
1.4	16QAM	1	3	18.33	18.42	18.19	
1.4	16QAM	1	5	18.27	18.34	18.42	
1.4	16QAM	3	0	17.13	17.06	17.05	
1.4	16QAM	3	1	17.20	17.20	17.08	
1.4	16QAM	3	3	17.18	17.17	17.14	
1.4	64QAM	6	0	17.10	16.20	17.06	18.5
1.4	64QAM	1	0	17.42	17.39	17.40	18.5
1.4	64QAM	1	3	17.30	17.40	17.14	
1.4	64QAM	1	5	17.21	17.34	17.35	
1.4	64QAM	3	0	16.10	16.00	16.00	
1.4	64QAM	3	1	16.17	16.15	16.07	
1.4	64QAM	3	3	16.10	16.11	16.11	
1.4	64QAM	6	0	16.21	16.23	15.99	17.5
1.4	25GQAM	1	0	14.31	14.26	14.33	15.5
1.4	25GQAM	1	3	14.14	14.31	14.04	
1.4	25GQAM	1	5	14.18	14.23	14.31	
1.4	25GQAM	3	0	13.96	14.21	13.90	
1.4	25GQAM	3	1	14.06	14.10	13.91	
1.4	25GQAM	3	3	14.09	14.02	14.00	
1.4	25GQAM	6	0	14.06	14.20	13.91	15.5

n2 (PC3)_Ant0&Ant4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	21.86	21.94	21.95	22.50
20		1	53	21.92	21.94	21.94	
20		1	104	21.90	21.91	21.92	
20		50	1	21.54	21.51	21.59	23.00
20		50	25	22.01	22.05	22.09	
20		50	50	21.57	21.54	21.57	
20		100	0	21.56	21.53	21.53	
20	DFT-s-OFDM QPSK	1	1	22.32	22.33	22.26	23.00
20		1	53	22.07	21.94	22.12	
20		1	104	22.08	21.88	22.11	
20		50	1	20.98	21.05	21.03	23.00
20		50	25	22.03	22.25	22.10	
20		50	50	21.09	21.10	21.03	
20		100	0	21.20	21.25	21.24	
20	DFT-s-OFDM 16QAM	1	1	20.85	21.02	21.10	22.00
20	DFT-s-OFDM 64QAM	1	1	19.47	19.58	19.60	20.50
20	DFT-s-OFDM 256QAM	1	1	17.16	17.21	17.22	18.00
20	CP-OFDM QPSK	1	1	20.07	20.52	20.61	21.50
20	CP-OFDM 16QAM	1	1	19.85	20.02	20.02	21.00
20	CP-OFDM 64QAM	1	1	18.61	18.66	18.66	19.50
20	CP-OFDM 256QAM	1	1	15.19	15.21	15.27	16.00
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	22.09	22.03	22.02	23.00
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	22.05	22.07	22.03	23.00
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	22.08	21.91	22.16	23.00

n25 (PC3)_Ant 0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	Tune-up limit (dBm)
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	21.98	21.99	22.03	23.00
40		1	108	22.00	22.06	22.05	
40		1	214	21.99	22.04	21.95	
40		108	1	21.58	21.56	21.61	23.00
40		108	54	22.12	22.05	22.11	
40		108	108	21.59	21.67	21.61	
40	DFT-s-OFDM QPSK	216	0	21.62	21.63	21.65	23.00
40		1	1	22.19	22.29	22.28	
40		1	108	22.13	21.98	22.02	
40		1	214	22.26	22.01	22.02	23.00
40		108	1	21.09	21.10	21.08	
40		108	54	22.11	22.15	22.13	
40	DFT-s-OFDM 16QAM	108	108	21.09	21.09	21.11	23.00
40		216	0	21.14	21.18	21.17	
40		1	1	21.04	21.17	21.15	
40	DFT-s-OFDM 64QAM	1	1	19.57	19.69	19.63	20.50
40	DFT-s-OFDM 256QAM	1	1	17.25	17.32	17.31	18.00
40	CP-OFDM QPSK	1	1	20.55	20.54	20.64	21.50
40	CP-OFDM 16QAM	1	1	20.05	20.07	20.08	21.00
40	CP-OFDM 64QAM	1	1	18.60	18.70	18.75	19.50
40	CP-OFDM 256QAM	1	1	15.29	15.24	15.28	16.00
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	DFT-s-OFDM QPSK	1	1	22.24	22.18	22.18	23.00
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	21.97	22.09	22.04	23.00
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	22.11	22.11	22.13	23.00
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	21.97	21.96	22.13	23.00
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	22.09	22.05	22.16	23.00
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	22.07	21.95	22.00	23.00
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	22.13	22.04	21.94	23.00

n30 (PC3)_Ant0&Ant4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		21.50
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		20.80		21.50
10		1	26		20.82		
10		1	50		20.70		
10		25	1		20.35		21.50
10		25	12		20.85		
10		25	25		20.36		
10		50	0		20.37		21.50
10		1	1		21.27		
10	DFT-s-OFDM QPSK	1	26		21.22		
10		1	50		21.19		21.50
10		25	1		20.17		
10		25	12		21.12		
10		25	25		20.12		
10		50	0		20.17		21.50
10	DFT-s-OFDM 16QAM	1	1		19.96		20.50
10	DFT-s-OFDM 64QAM	1	1		18.56		19.50
10	DFT-s-OFDM 256QAM	1	1		16.00		17.00
10	CP-OFDM QPSK	1	1		19.41		20.00
10	CP-OFDM 16QAM	1	1		18.90		19.50
10	CP-OFDM 64QAM	1	1		17.53		18.50
10	CP-OFDM 256QAM	1	1		13.96		14.50
Channel				461500	462000	462500	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	20.81	20.82	20.87	21.50

n41 (PC3)_Ant 4									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	21.50
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.90	20.89	20.92	20.58	20.57	21.50
100		1	136	20.99	20.95	20.89	20.64	20.64	
100		1	271	21.02	21.14	21.21	20.99	21.03	
100		135	1	20.54	20.49	20.52	20.11	20.16	21.50
100		135	67	21.05	21.05	20.43	20.68	20.73	
100		135	136	20.55	20.52	20.29	20.34	20.37	
100		270	0	20.54	20.69	20.17	20.11	20.15	
100	DFT-s-OFDM QPSK	1	1	20.93	21.07	21.22	20.97	21.01	21.50
100		1	136	21.04	20.92	20.61	20.67	20.63	
100		1	271	21.03	21.09	20.84	21.00	21.03	
100		135	1	20.08	20.01	19.78	19.64	19.65	21.50
100		135	67	20.82	20.78	20.86	20.63	20.69	
100		135	136	20.08	19.97	19.79	19.86	19.85	
100		270	0	20.07	20.03	20.08	19.65	19.67	
100	DFT-s-OFDM 16QAM	1	1	19.97	19.85	19.75	19.63	19.63	20.50
100	DFT-s-OFDM 64QAM	1	1	18.25	18.26	17.94	17.92	17.94	19.00
100	DFT-s-OFDM 256QAM	1	1	16.39	16.41	16.09	15.96	15.96	17.00
100	CP-OFDM QPSK	1	1	19.39	19.40	19.20	19.09	19.07	20.00
100	CP-OFDM 16QAM	1	1	18.91	18.94	18.73	18.57	18.58	19.50
100	CP-OFDM 64QAM	1	1	17.46	17.54	17.15	17.11	17.07	18.50
100	CP-OFDM 256QAM	1	1	14.40	14.47	14.14	14.03	14.02	15.00
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	20.75	20.89	20.81	20.68	20.61	21.50
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	20.72	20.85	20.73	20.63	20.67	21.50
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	20.80	20.85	20.86	20.70	20.72	21.50
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	20.84	20.95	20.93	20.78	20.86	21.50
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	20.79	21.09	20.92	20.89	20.82	21.50
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	21.01	21.10	21.02	20.98	20.92	21.50
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	20.95	21.10	21.02	20.90	20.89	21.50
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	20.81	20.92	20.88	20.92	20.90	21.50
Channel				500700	509652	518598	527550	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.26	2592.99	2637.75	2682.48	
15	DFT-s-OFDM QPSK	1	1	20.77	20.97	20.93	20.88	20.92	21.50
Channel				500202	509400	518598	527796	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2547	2592.99	2638.98	2685	
10	DFT-s-OFDM QPSK	1	1	20.74	20.86	20.92	20.85	20.98	21.50

n66 (PC3)_Ant 0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	20.47	20.54	20.36	21.50
40		1	108	20.51	20.50	20.41	
40		1	214	20.49	20.61	20.38	
40		108	1	20.09	20.15	19.94	21.50
40		108	54	20.63	20.61	20.45	
40		108	108	20.16	20.22	20.04	
40	DFT-s-OFDM QPSK	216	0	20.12	20.14	19.97	21.50
40		1	1	20.52	20.76	20.47	
40		1	108	20.75	20.67	20.58	
40		1	214	20.64	20.75	20.51	21.50
40		108	1	19.62	19.62	19.49	
40		108	54	20.64	20.65	20.50	
40		108	108	19.71	19.71	19.59	21.50
40		216	0	19.88	19.90	19.72	
40	DFT-s-OFDM 16QAM	1	1	19.71	19.73	19.48	20.50
40	DFT-s-OFDM 64QAM	1	1	18.19	18.26	18.12	19.00
40	DFT-s-OFDM 256QAM	1	1	15.83	15.79	15.59	16.50
40	CP-OFDM QPSK	1	1	19.19	19.12	18.95	20.00
40	CP-OFDM 16QAM	1	1	18.56	18.69	18.43	19.50
40	CP-OFDM 64QAM	1	1	17.21	17.23	17.12	18.00
40	CP-OFDM 256QAM	1	1	13.64	13.73	13.56	14.50
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	20.60	20.66	20.52	21.50
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	DFT-s-OFDM QPSK	1	1	20.86	20.90	20.87	21.50
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	20.68	20.57	20.56	21.50
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	20.62	20.53	20.53	21.50
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	20.59	20.50	20.51	21.50
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	20.57	20.52	20.58	21.50

n77(3450-3550MHz) (PC2)_Ant2									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			24.90			25.80
100		1	136			24.34			
100		1	271			24.13			
100		135	1			24.28			25.30
100		135	67			24.33			
100		135	136			24.04			
100		270	0			24.19			
100	DFT-s-OFDM QPSK	1	1			25.01			25.80
100		1	136			24.29			
100		1	271			24.04			
100		135	1			23.80			25.30
100		135	67			24.33			
100		135	136			23.63			
100		270	0			23.71			
100	DFT-s-OFDM 16QAM	1	1			23.81			24.50
100	DFT-s-OFDM 64QAM	1	1			22.27			23.00
100	DFT-s-OFDM 256QAM	1	1			20.26			21.00
100	CP-OFDM QPSK	1	1			23.51			24.50
100	CP-OFDM 16QAM	1	1			22.89			23.50
100	CP-OFDM 64QAM	1	1			21.40			22.00
100	CP-OFDM 256QAM	1	1			18.36			19.00
Channel				633000	633168	633334	633500	633666	Tune-up limit
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	(dBm)
90	DFT-s-OFDM QPSK	1	1	24.57	24.63	24.64	24.65	24.68	25.50
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	24.56	24.57	24.60	24.60	24.53	25.50
Channel				632334	632834	633334	633832	634332	Tune-up limit
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	(dBm)
70	DFT-s-OFDM QPSK	1	1	24.57	24.60	24.61	24.66	24.62	25.50
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	24.54	24.52	24.64	24.60	24.75	25.50
Channel				631668	632500	633334	634166	635000	Tune-up limit
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	(dBm)
50	DFT-s-OFDM QPSK	1	1	24.53	24.44	24.57	24.65	24.59	25.50
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	24.77	24.74	24.89	24.91	24.63	25.50
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	24.72	24.66	24.84	24.79	24.82	25.50
Channel				630834	632084	633334	634584	635832	Tune-up limit
Frequency (MHz)				3462.51	3481.26	3500.01	3518.76	3537.48	(dBm)
25	DFT-s-OFDM QPSK	1	1	24.91	24.86	24.99	24.98	25.04	26.00
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	24.48	24.45	24.58	24.56	24.60	25.50
Channel				630500	631916	633334	634750	636166	Tune-up limit
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	(dBm)
15	DFT-s-OFDM QPSK	1	1	24.43	24.50	24.68	24.61	24.72	25.50
Channel				630334	631834	633334	634834	636332	Tune-up limit
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	(dBm)
10	DFT-s-OFDM QPSK	1	1	24.39	24.49	24.51	24.56	24.53	25.50

n77(3700-3980MHz) (PC2)_Ant2									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	26.30
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.84	24.66	23.94	24.07	24.15	26.30
100		1	136	23.88	24.10	24.09	24.04	24.01	
100		1	271	23.82	24.11	23.87	23.87	23.99	
100		135	1	23.83	23.99	23.92	24.04	23.98	
100		135	67	23.89	24.15	24.05	24.08	24.09	
100		135	136	23.69	23.97	23.84	23.82	23.87	
100	DFT-s-OFDM QPSK	270	0	23.78	23.96	23.89	23.97	23.99	25.80
100		1	1	25.15	25.18	25.19	25.10	25.10	
100		1	136	23.87	24.08	24.08	24.00	24.04	
100		1	271	23.81	24.07	23.86	23.94	23.94	
100		135	1	23.29	23.52	23.61	23.60	23.48	
100		135	67	24.85	24.82	24.86	24.81	24.80	
100	DFT-s-OFDM 16QAM	135	136	23.22	23.43	23.35	23.30	23.36	26.30
100		270	0	23.71	24.00	24.01	23.93	23.96	
100		1	1	23.34	23.50	23.40	23.46	23.57	
100		1	1	21.75	21.91	21.77	21.83	21.87	
100	DFT-s-OFDM 64QAM	1	1	19.74	20.02	19.77	19.88	19.89	21.00
100	CP-OFDM QPSK	1	1	22.80	23.08	22.86	23.00	23.07	24.00
100	CP-OFDM 16QAM	1	1	22.30	22.54	22.29	22.63	22.56	23.50
100	CP-OFDM 64QAM	1	1	20.75	21.00	20.82	21.02	21.01	22.00
100	CP-OFDM 256QAM	1	1	17.68	18.05	17.76	17.96	17.96	19.00
Channel				649666	652834	656000	659166	662332	25.00
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	23.88	24.07	23.96	24.09	24.09	25.00
Channel				649334	652688	656000	659332	662686	25.00
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	23.85	24.17	24.04	24.12	24.15	25.00
Channel				649000	652500	656000	659500	663000	25.00
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	23.92	24.07	24.10	24.11	24.22	25.00
Channel				648668	652334	656000	659666	663332	25.00
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	23.95	24.08	24.12	24.01	24.15	25.00
Channel				648334	652168	656000	659832	663666	25.00
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	24.03	24.09	24.16	24.22	24.31	25.00
Channel				648000	652000	656000	660000	664000	25.00
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	24.22	24.28	24.47	24.55	24.62	25.50
Channel				647668	651834	656000	660166	664332	25.00
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	24.20	24.13	24.26	24.26	24.43	25.00
Channel				647500	651750	656000	660250	664500	25.00
Frequency (MHz)				3712.5	3776.25	3840	3903.75	3967.5	
25	DFT-s-OFDM QPSK	1	1	24.49	24.45	24.54	24.50	24.65	25.50
Channel				647334	651668	656000	660332	664666	25.00
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	24.18	24.13	24.13	24.06	24.43	25.00
Channel				647168	651584	656000	660416	664832	25.00
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	24.21	24.11	24.20	24.23	24.45	25.00
Channel				647000	651500	656000	660500	665000	25.00
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	24.29	24.33	24.36	24.29	24.52	25.50

n77(3450-3550MHz) (PC3)_Ant2									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			21.35			22.00
100		1	136			20.96			
100		1	271			20.61			
100		135	1			21.19			22.00
100		135	67			21.05			
100		135	136			20.75			
100		270	0			21.03			
100	DFT-s-OFDM QPSK	1	1			21.47			22.00
100		1	136			20.95			
100		1	271			20.69			
100		135	1			21.19			22.00
100		135	67			21.03			
100		135	136			20.74			
100		270	0			21.04			
100	DFT-s-OFDM 16QAM	1	1			21.46			22.00
100	DFT-s-OFDM 64QAM	1	1			21.32			22.00
100	DFT-s-OFDM 256QAM	1	1			20.27			21.00
100	CP-OFDM QPSK	1	1			21.36			22.00
100	CP-OFDM 16QAM	1	1			21.31			22.00
100	CP-OFDM 64QAM	1	1			21.21			22.00
100	CP-OFDM 256QAM	1	1			18.23			19.00
Channel				633000	633168	633334	633500	633666	Tune-up limit
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	(dBm)
90	DFT-s-OFDM QPSK	1	1	21.30	21.28	21.27	21.36	21.35	22.00
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	21.21	21.20	21.25	21.24	21.25	22.00
Channel				632334	632834	633334	633832	634332	Tune-up limit
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	(dBm)
70	DFT-s-OFDM QPSK	1	1	21.32	21.24	21.27	21.24	21.33	22.00
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	21.24	21.24	21.32	21.30	21.30	22.00
Channel				631668	632500	633334	634166	635000	Tune-up limit
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	(dBm)
50	DFT-s-OFDM QPSK	1	1	21.25	21.20	21.31	21.26	21.16	22.00
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	21.56	21.53	21.57	21.54	21.40	22.50
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	21.50	21.49	21.52	21.41	21.28	22.50
Channel				630834	632084	633334	634584	635832	Tune-up limit
Frequency (MHz)				3462.51	3481.26	3500.01	3518.76	3537.48	(dBm)
25	DFT-s-OFDM QPSK	1	1	21.68	21.57	21.70	21.70	21.80	22.50
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	21.26	21.23	21.32	21.39	21.42	22.00
Channel				630500	631916	633334	634750	636166	Tune-up limit
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	(dBm)
15	DFT-s-OFDM QPSK	1	1	21.35	21.25	21.45	21.40	21.45	22.00
Channel				630334	631834	633334	634834	636332	Tune-up limit
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	(dBm)
10	DFT-s-OFDM QPSK	1	1	21.32	21.08	21.37	21.41	21.36	22.00

n77(3700-3980MHz) (PC3)_Ant2										
Band (MHz)	Modulation	RB num	RB start	Low Channel	Middle Channel	Side Channel	Side/High Channel	High Channel	Tune-up	
Channel				65000	65300	65600	65900	66200	limit	
Frequency (MHz)				3750	3795	3840	3885	3930	limit	
100	DFT-s-OFDM P1/2 BPSK	1	1	20.78	21.28	20.94	20.99	20.90	22.00	
100		1	136	20.96	21.03	20.72	21.11	21.12		
100		1	271	20.84	20.74	20.65	20.98	21.20		
100		136	1	20.94	21.17	20.82	21.04	20.98	22.00	
100		136	67	21.03	21.08	20.75	21.67	21.14		
100		136	136	20.90	20.82	20.69	21.06	21.14		
100	DFT-s-OFDM QPSK	270	0	20.93	21.07	20.69	21.02	21.06	22.00	
100		1	1	21.10	21.28	21.30	21.18	21.12		
100		1	136	21.00	21.10	20.67	21.10	21.15		
100		1	271	20.80	20.68	20.67	20.91	21.13	22.00	
100		136	1	20.90	20.32	20.87	21.00	21.00		
100		136	67	21.02	21.09	21.10	21.08	21.05		
100	DFT-s-OFDM 16QAM	136	136	20.91	20.76	20.65	21.04	21.10	22.00	
100		270	0	20.69	20.83	20.90	20.83	20.87		
100		1	1	20.76	21.20	21.08	21.01	20.97		
100	DFT-s-OFDM 64QAM	1	1	20.78	21.03	20.79	20.78	20.64	22.00	
100	DFT-s-OFDM 256QAM	1	1	19.62	20.07	19.71	19.74	19.63	21.00	
100	CP-OFDM QPSK	1	1	20.88	21.29	20.94	20.94	20.97	22.00	
100	CP-OFDM 16QAM	1	1	20.75	21.18	20.89	20.86	20.91	22.00	
100	CP-OFDM 64QAM	1	1	20.69	21.21	20.79	20.74	20.88	22.00	
100	CP-OFDM 256QAM	1	1	17.84	18.12	17.81	17.74	17.67	19.00	
Channel				64968	65234	65600	65916	66232	Tune-up	
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	limit	
90	DFT-s-OFDM QPSK	1	1	20.77	21.21	20.94	20.69	20.84	22.00	
Channel				649334	65268	65600	65932	66266	Tune-up	
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	limit	
80	DFT-s-OFDM QPSK	1	1	20.73	21.26	20.88	20.71	20.95	22.00	
Channel				649000	652500	656000	659500	663000	Tune-up	
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	limit	
70	DFT-s-OFDM QPSK	1	1	20.83	21.20	20.90	20.72	21.08	22.00	
Channel				648688	652334	656000	65966	663332	Tune-up	
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit	
60	DFT-s-OFDM QPSK	1	1	20.84	21.22	20.82	20.71	21.17	22.00	
Channel				648334	652168	656000	659832	66366	Tune-up	
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	limit	
50	DFT-s-OFDM QPSK	1	1	20.94	21.16	20.82	20.85	21.31	22.00	
Channel				648000	652000	656000	660000	664000	Tune-up	
Frequency (MHz)				3720	3780	3840	3900	3960	limit	
40	DFT-s-OFDM QPSK	1	1	21.39	21.50	21.18	21.17	21.68	22.50	
Channel				647688	651834	656000	660166	664332	Tune-up	
Frequency (MHz)				3715.02	3777.51	3840	3892.49	3954.98	limit	
30	DFT-s-OFDM QPSK	1	1	21.14	21.44	20.99	21.13	21.56	22.50	
Channel				647500	651750	656000	660250	664500	Tune-up	
Frequency (MHz)				3712.5	3776.25	3840	3893.75	3967.5	limit	
25	DFT-s-OFDM QPSK	1	1	21.43	21.67	21.31	21.36	21.87	22.50	
Channel				647334	651668	656000	660332	66466	Tune-up	
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit	
20	DFT-s-OFDM QPSK	1	1	21.15	21.24	20.89	20.98	21.58	22.50	
Channel				647168	651584	656000	660416	664832	Tune-up	
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	limit	
15	DFT-s-OFDM QPSK	1	1	21.08	21.18	20.83	21.03	21.46	22.00	
Channel				647000	651500	656000	660500	665000	Tune-up	
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	limit	
10	DFT-s-OFDM QPSK	1	1	21.09	21.24	20.91	21.12	21.52	22.50	

5.2GHz WLAN ANT 5

5.2GHz WLAN ANT 5	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	16.54	17.00	19.00	97.89
		CH 44	5220	16.49	17.00	19.00	
		CH 48	5240	16.54	17.00	19.00	
	802.11n-HT20 MCS0	CH 36	5180	16.20	17.00	19.00	97.76
		CH 44	5220	16.13	17.00	19.00	
		CH 48	5240	16.16	17.00	19.00	
	802.11n-HT40 MCS0	CH 38	5190	15.29	16.00	17.00	95.59
		CH 46	5230	15.25	16.00	17.00	
	802.11ac-VHT20 MCS0	CH 36	5180	16.25	17.00	19.00	97.74
		CH 44	5220	16.18	17.00	19.00	
		CH 48	5240	16.21	17.00	19.00	
	802.11ac-VHT40 MCS0	CH 38	5190	15.29	16.00	17.00	95.59
		CH 46	5230	15.24	16.00	17.00	
802.11ac-VHT80 MCS0	CH 42	5210	13.18	14.00	15.00	88.89	

5.8GHz WLAN ANT 5

5.8GHz WLAN ANT 5	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	14.71	15.50	18.50	97.20
		CH 157	5785	15.12	16.00	18.50	
		CH 165	5825	15.18	16.00	18.50	
	802.11n-HT20 MCS0	CH 149	5745	14.61	15.50	18.50	97.74
		CH 157	5785	15.05	16.00	18.50	
		CH 165	5825	15.11	16.00	18.50	
	802.11n-HT40 MCS0	CH 151	5755	13.78	14.50	16.50	95.59
		CH 159	5795	14.03	15.00	16.50	
	802.11ac-VHT20 MCS0	CH 149	5745	14.61	15.50	18.50	97.74
		CH 157	5785	15.04	16.00	18.50	
		CH 165	5825	15.10	16.00	18.50	
	802.11ac-VHT40 MCS0	CH 151	5755	13.79	14.50	16.50	94.12
		CH 159	5795	14.04	15.00	16.50	
802.11ac-VHT80 MCS0	CH 155	5775	12.10	13.00	14.50	88.89	

Reduced Power Level 4

2.4GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 5	802.11b 1Mbps	CH 1	2412	14.37	15.00	14.50	98.29
		CH 6	2437	14.30	15.00	14.50	
		CH 11	2462	14.47	15.00	14.50	
	802.11g 6Mbps	CH 1	2412	14.03	15.00	13.50	97.61
		CH 6	2437	13.90	14.50	13.50	
		CH 11	2462	14.02	15.00	13.50	
	802.11n-HT20 MCS0	CH 1	2412	12.83	13.50	13.50	97.46
		CH 6	2437	12.78	13.50	13.50	
		CH 11	2462	12.90	13.50	13.50	
	802.11n-HT40 MCS0	CH 3	2422	13.60	14.50	13.50	92.82
		CH 6	2437	13.50	14.50	13.50	
		CH 9	2452	13.17	14.00	13.50	

5.2GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 5	802.11a 6Mbps	CH 36	5180	10.43	11.00	13.00	97.89
		CH 44	5220	10.29	11.00	13.00	
		CH 48	5240	10.34	11.00	13.00	
	802.11n-HT20 MCS0	CH 36	5180	10.20	11.00	13.00	97.76
		CH 44	5220	10.13	11.00	13.00	
		CH 48	5240	10.16	11.00	13.00	
	802.11n-HT40 MCS0	CH 38	5190	9.29	10.00	11.00	95.59
		CH 46	5230	9.25	10.00	11.00	
	802.11ac-VHT20 MCS0	CH 36	5180	10.25	11.00	13.00	97.74
		CH 44	5220	10.18	11.00	13.00	
		CH 48	5240	10.21	11.00	13.00	
	802.11ac-VHT40 MCS0	CH 38	5190	9.29	10.00	11.00	95.59
		CH 46	5230	9.24	10.00	11.00	
	802.11ac-VHT80 MCS0	CH 42	5210	7.18	8.00	9.00	88.89

5.8GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 5	802.11a 6Mbps	CH 149	5745	8.71	9.50	12.50	97.20
		CH 157	5785	9.12	10.00	12.50	
		CH 165	5825	9.18	10.00	12.50	
	802.11n-HT20 MCS0	CH 149	5745	8.61	9.50	12.50	97.74
		CH 157	5785	9.05	10.00	12.50	
		CH 165	5825	9.11	10.00	12.50	
	802.11n-HT40 MCS0	CH 151	5755	7.78	8.50	10.50	95.59
		CH 159	5795	8.03	9.00	10.50	
	802.11ac-VHT20 MCS0	CH 149	5745	8.61	9.50	12.50	97.74
		CH 157	5785	9.04	10.00	12.50	
		CH 165	5825	9.10	10.00	12.50	
	802.11ac-VHT40 MCS0	CH 151	5755	7.79	8.50	10.50	94.12
		CH 159	5795	8.04	9.00	10.50	
	802.11ac-VHT80 MCS0	CH 155	5775	6.10	7.00	8.50	88.89

Reduced Power Level 5

Band		WCDMA Band IV (dBm)_ANT0			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	RMC 12.2Kbps	21.89	22.02	21.92	23.00
3GPP Rel 5	HSDPA Subtest-1	20.96	21.03	20.93	21.50
3GPP Rel 5	HSDPA Subtest-2	20.98	20.53	20.89	21.50
3GPP Rel 5	HSDPA Subtest-3	20.48	20.63	20.54	21.50
3GPP Rel 5	HSDPA Subtest-4	20.50	20.63	20.51	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.14	21.13	21.11	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.18	21.12	21.14	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.61	20.70	20.60	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.63	20.68	20.62	21.50
3GPP Rel 6	HSUPA Subtest-1	20.98	21.01	20.86	21.50
3GPP Rel 6	HSUPA Subtest-2	20.50	20.63	20.24	21.00
3GPP Rel 6	HSUPA Subtest-3	21.02	21.08	20.95	21.50
3GPP Rel 6	HSUPA Subtest-4	21.03	21.07	20.90	21.50
3GPP Rel 6	HSUPA Subtest-5	20.99	21.14	20.83	21.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.74	20.69	20.74	21.50
Attenuator			Cable Loss		
Mode			Max.	22.02	

Band 4 (AWS Band) (dBm)_Ant0 Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.33	22.39	22.37	23.5
20	QPSK	1	49	22.33	22.35	22.28	
20	QPSK	1	99	22.25	22.32	22.29	
20	QPSK	50	0	21.39	21.51	21.40	22.5
20	QPSK	50	24	21.43	21.37	21.35	
20	QPSK	50	50	21.40	21.43	21.36	
20	QPSK	100	0	21.43	21.44	21.33	22.5
20	16QAM	1	0	21.70	21.61	21.44	
20	16QAM	1	49	21.58	21.67	21.62	
20	16QAM	1	99	21.68	21.45	21.72	21.5
20	16QAM	50	0	20.39	20.34	20.38	
20	16QAM	50	24	20.60	20.45	20.44	
20	16QAM	50	50	20.47	20.50	20.52	21.5
20	16QAM	100	0	20.45	20.47	20.43	
20	64QAM	1	0	20.55	20.69	20.64	
20	64QAM	1	49	20.58	20.62	20.52	21.5
20	64QAM	1	99	20.68	20.56	20.38	
20	64QAM	50	0	19.53	19.42	19.42	
20	64QAM	50	24	19.36	19.37	19.44	20.5
20	64QAM	50	50	19.49	19.42	19.47	
20	64QAM	100	0	19.41	19.44	19.43	
20	256QAM	1	0	17.29	17.44	17.39	18.5
20	256QAM	1	49	17.32	17.37	17.27	
20	256QAM	1	99	17.42	17.31	17.13	
20	256QAM	50	0	17.27	17.17	17.17	18.5
20	256QAM	50	24	17.10	17.12	17.19	
20	256QAM	50	50	17.23	17.17	17.22	
20	256QAM	100	0	17.15	17.19	17.18	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.26	22.32	22.30	23.5
15	QPSK	1	37	22.26	22.28	22.21	
15	QPSK	1	74	22.18	22.25	22.22	
15	QPSK	36	0	21.32	21.44	21.33	22.5
15	QPSK	36	20	21.36	21.30	21.28	
15	QPSK	36	39	21.33	21.36	21.29	
15	QPSK	75	0	21.36	21.37	21.26	22.5
15	16QAM	1	0	21.63	21.54	21.37	
15	16QAM	1	37	21.51	21.60	21.55	
15	16QAM	1	74	21.61	21.38	21.65	21.5
15	16QAM	36	0	20.32	20.27	20.31	
15	16QAM	36	20	20.53	20.38	20.37	
15	16QAM	36	39	20.40	20.43	20.45	21.5
15	16QAM	75	0	20.38	20.40	20.36	
15	64QAM	1	0	20.48	20.62	20.57	
15	64QAM	1	37	20.51	20.55	20.45	21.5
15	64QAM	1	74	20.61	20.49	20.31	
15	64QAM	36	0	19.46	19.35	19.35	20.5
15	64QAM	36	20	19.29	19.30	19.37	
15	64QAM	36	39	19.42	19.35	19.40	
15	64QAM	75	0	19.34	19.37	19.36	18.5
15	256QAM	1	0	17.22	17.37	17.32	
15	256QAM	1	37	17.25	17.30	17.20	
15	256QAM	1	74	17.35	17.24	17.06	18.5
15	256QAM	36	0	17.20	17.10	17.10	
15	256QAM	36	20	17.03	17.05	17.12	
15	256QAM	36	39	17.16	17.10	17.15	20.5
15	256QAM	75	0	17.08	17.12	17.11	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.21	22.27	22.25	23.5
10	QPSK	1	25	22.21	22.23	22.16	
10	QPSK	1	49	22.13	22.20	22.17	
10	QPSK	25	0	21.27	21.39	21.28	22.5
10	QPSK	25	12	21.31	21.25	21.23	
10	QPSK	25	25	21.28	21.31	21.24	
10	QPSK	50	0	21.31	21.32	21.21	22.5
10	16QAM	1	0	21.58	21.49	21.32	
10	16QAM	1	25	21.46	21.55	21.50	
10	16QAM	1	49	21.56	21.33	21.60	21.5
10	16QAM	25	0	20.27	20.22	20.26	
10	16QAM	25	12	20.48	20.33	20.32	
10	16QAM	25	25	20.35	20.38	20.40	21.5
10	16QAM	50	0	20.33	20.35	20.31	
10	64QAM	1	0	20.43	20.57	20.52	
10	64QAM	1	25	20.46	20.50	20.40	21.5
10	64QAM	1	49	20.56	20.44	20.26	
10	64QAM	25	0	19.41	19.30	19.30	20.5
10	64QAM	25	12	19.24	19.25	19.32	
10	64QAM	25	25	19.37	19.30	19.35	
10	64QAM	50	0	19.29	19.32	19.31	18.5
10	256QAM	1	0	17.17	17.32	17.27	
10	256QAM	1	25	17.20	17.25	17.15	
10	256QAM	1	49	17.30	17.19	17.01	18.5
10	256QAM	25	0	17.15	17.05	17.05	
10	256QAM	25	12	16.98	17.00	17.07	
10	256QAM	25	25	17.11	17.05	17.10	22.5
10	256QAM	50	0	17.03	17.07	17.06	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.30	22.36	22.34	23.5
5	QPSK	1	12	22.30	22.32	22.25	
5	QPSK	1	24	22.22	22.29	22.26	
5	QPSK	12	0	21.36	21.48	21.37	22.5
5	QPSK	12	7	21.40	21.34	21.32	
5	QPSK	12	13	21.37	21.40	21.33	

Band 30 (dBm)_Ant4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.02		23
10	QPSK	1	25		21.93		
10	QPSK	1	49		21.93		
10	QPSK	25	0		21.06		22
10	QPSK	25	12		21.02		
10	QPSK	25	25		21.01		
10	QPSK	50	0		21.03		22
10	16QAM	1	0		21.22		
10	16QAM	1	25		21.19		
10	16QAM	1	49		21.26		21
10	16QAM	25	0		20.08		
10	16QAM	25	12		20.03		
10	16QAM	25	25		20.04		21
10	16QAM	50	0		20.01		
10	64QAM	1	0		20.28		
10	64QAM	1	25		20.02		21
10	64QAM	1	49		20.18		
10	64QAM	25	0		19.12		
10	64QAM	25	12		19.07		20
10	64QAM	25	25		19.02		
10	64QAM	50	0		19.04		
10	256QAM	1	0		16.97		18
10	256QAM	1	25		16.71		
10	256QAM	1	49		16.87		
10	256QAM	25	0		16.95		18
10	256QAM	25	12		16.75		
10	256QAM	25	25		16.70		
10	256QAM	50	0		16.72		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	21.86	21.96	21.85	23
5	QPSK	1	12	21.77	21.77	21.80	
5	QPSK	1	24	21.81	21.75	21.82	
5	QPSK	12	0	20.87	20.96	20.88	22
5	QPSK	12	7	20.93	20.86	20.88	
5	QPSK	12	13	20.91	20.87	20.90	
5	QPSK	25	0	20.79	20.86	20.89	22
5	16QAM	1	0	21.12	21.06	21.12	
5	16QAM	1	12	21.07	21.03	21.07	
5	16QAM	1	24	21.10	21.11	21.16	21
5	16QAM	12	0	19.92	19.91	19.99	
5	16QAM	12	7	19.88	19.88	19.92	
5	16QAM	12	13	19.87	19.95	19.85	21
5	16QAM	25	0	19.85	19.87	19.86	
5	64QAM	1	0	20.14	20.16	20.10	
5	64QAM	1	12	19.88	19.83	19.92	21
5	64QAM	1	24	20.09	20.04	20.05	
5	64QAM	12	0	19.02	18.95	18.94	
5	64QAM	12	7	18.98	18.96	18.98	20
5	64QAM	12	13	18.91	18.89	18.82	
5	64QAM	25	0	18.92	18.84	18.86	
5	256QAM	1	0	16.89	16.95	16.87	18
5	256QAM	1	12	16.70	16.69	16.68	
5	256QAM	1	24	16.85	16.83	16.81	
5	256QAM	12	0	16.69	16.75	16.71	18
5	256QAM	12	7	16.69	16.70	16.72	
5	256QAM	12	13	16.59	16.60	16.64	
5	256QAM	25	0	16.63	16.65	16.71	

5	QPSK	25	0	21.40	21.41	21.30	22.5
5	16QAM	1	0	21.67	21.58	21.41	
5	16QAM	1	12	21.55	21.64	21.59	
5	16QAM	1	24	21.65	21.42	21.69	21.5
5	16QAM	12	0	20.36	20.31	20.35	
5	16QAM	12	7	20.57	20.42	20.41	
5	16QAM	12	13	20.44	20.47	20.49	
5	16QAM	25	0	20.42	20.44	20.40	21.5
5	64QAM	1	0	20.52	20.66	20.61	
5	64QAM	1	12	20.55	20.59	20.49	
5	64QAM	1	24	20.65	20.53	20.35	
5	64QAM	12	0	19.50	19.39	19.39	20.5
5	64QAM	12	7	19.33	19.34	19.41	
5	64QAM	12	13	19.46	19.39	19.44	
5	64QAM	25	0	19.38	19.41	19.40	
5	256QAM	1	0	17.26	17.41	17.36	18.5
5	256QAM	1	12	17.29	17.34	17.24	
5	256QAM	1	24	17.39	17.28	17.10	
5	256QAM	12	0	17.24	17.14	17.14	18.5
5	256QAM	12	7	17.07	17.09	17.16	
5	256QAM	12	13	17.20	17.14	17.19	
5	256QAM	25	0	17.12	17.16	17.15	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.26	22.32	22.30	23.5
3	QPSK	1	8	22.26	22.28	22.21	
3	QPSK	1	14	22.18	22.25	22.22	
3	QPSK	8	0	21.32	21.44	21.33	22.5
3	QPSK	8	4	21.36	21.30	21.28	
3	QPSK	8	7	21.33	21.36	21.29	
3	QPSK	15	0	21.36	21.37	21.26	
3	16QAM	1	0	21.63	21.54	21.37	22.5
3	16QAM	1	8	21.51	21.60	21.55	
3	16QAM	1	14	21.61	21.38	21.65	
3	16QAM	8	0	20.32	20.27	20.31	21.5
3	16QAM	8	4	20.53	20.38	20.37	
3	16QAM	8	7	20.40	20.43	20.45	
3	16QAM	15	0	20.38	20.40	20.36	
3	64QAM	1	0	20.48	20.62	20.57	21.5
3	64QAM	1	8	20.51	20.55	20.45	
3	64QAM	1	14	20.61	20.49	20.31	
3	64QAM	8	0	19.46	19.35	19.35	
3	64QAM	8	4	19.29	19.30	19.37	20.5
3	64QAM	8	7	19.42	19.35	19.40	
3	64QAM	15	0	19.34	19.37	19.36	
3	256QAM	1	0	17.22	17.37	17.32	
3	256QAM	1	8	17.25	17.30	17.20	18.5
3	256QAM	1	14	17.35	17.24	17.06	
3	256QAM	8	0	17.20	17.10	17.10	
3	256QAM	8	4	17.03	17.05	17.12	18.5
3	256QAM	8	7	17.16	17.10	17.15	
3	256QAM	15	0	17.08	17.12	17.11	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.17	22.23	22.21	23.5
1.4	QPSK	1	3	22.17	22.19	22.12	
1.4	QPSK	1	5	22.09	22.16	22.13	
1.4	QPSK	3	0	21.23	21.35	21.24	
1.4	QPSK	3	1	21.27	21.21	21.19	
1.4	QPSK	3	3	21.24	21.27	21.20	
1.4	QPSK	6	0	21.27	21.28	21.17	22.5
1.4	16QAM	1	0	21.54	21.45	21.28	22.5
1.4	16QAM	1	3	21.42	21.51	21.46	
1.4	16QAM	1	5	21.52	21.29	21.56	
1.4	16QAM	3	0	20.23	20.18	20.22	
1.4	16QAM	3	1	20.44	20.29	20.28	
1.4	16QAM	3	3	20.31	20.34	20.36	
1.4	16QAM	6	0	20.29	20.31	20.27	21.5
1.4	64QAM	1	0	20.39	20.53	20.48	21.5
1.4	64QAM	1	3	20.42	20.46	20.36	
1.4	64QAM	1	5	20.52	20.40	20.22	
1.4	64QAM	3	0	19.37	19.26	19.26	
1.4	64QAM	3	1	19.20	19.21	19.28	
1.4	64QAM	3	3	19.33	19.26	19.31	
1.4	64QAM	6	0	19.25	19.28	19.27	20.5
1.4	256QAM	1	0	17.13	17.28	17.23	18.5
1.4	256QAM	1	3	17.16	17.21	17.11	
1.4	256QAM	1	5	17.26	17.15	16.97	
1.4	256QAM	3	0	17.11	17.01	17.01	
1.4	256QAM	3	1	16.94	16.96	17.03	
1.4	256QAM	3	3	17.07	17.01	17.06	
1.4	256QAM	6	0	16.99	17.20	17.02	18.5

Band 30 (dBm)_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		21.02		22
10	QPSK	1	25		20.93		
10	QPSK	1	49		20.93		
10	QPSK	25	0		20.06		21
10	QPSK	25	12		20.02		
10	QPSK	25	25		20.01		
10	QPSK	50	0		20.03		21
10	16QAM	1	0		20.22		
10	16QAM	1	25		20.19		
10	16QAM	1	49		20.26		20
10	16QAM	25	0		19.08		
10	16QAM	25	12		19.03		
10	16QAM	25	25		19.04		20
10	16QAM	50	0		19.01		
10	64QAM	1	0		19.28		
10	64QAM	1	25		19.02		20
10	64QAM	1	49		19.18		
10	64QAM	25	0		18.12		
10	64QAM	25	12		18.07		19
10	64QAM	25	25		18.02		
10	64QAM	50	0		18.04		
10	256QAM	1	0		15.97		17
10	256QAM	1	25		15.71		
10	256QAM	1	49		15.87		
10	256QAM	25	0		15.95		17
10	256QAM	25	12		15.75		
10	256QAM	25	25		15.70		
10	256QAM	50	0		15.72		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	20.86	20.96	20.85	22
5	QPSK	1	12	20.77	20.77	20.80	
5	QPSK	1	24	20.81	20.75	20.82	
5	QPSK	12	0	19.87	19.96	19.88	21
5	QPSK	12	7	19.93	19.86	19.88	
5	QPSK	12	13	19.91	19.87	19.90	
5	QPSK	25	0	19.79	19.86	19.89	21
5	16QAM	1	0	20.12	20.06	20.12	
5	16QAM	1	12	20.07	20.03	20.07	
5	16QAM	1	24	20.10	20.11	20.16	20
5	16QAM	12	0	18.92	18.91	18.99	
5	16QAM	12	7	18.88	18.88	18.92	
5	16QAM	12	13	18.87	18.95	18.85	20
5	16QAM	25	0	18.85	18.87	18.86	
5	64QAM	1	0	19.14	19.16	19.10	
5	64QAM	1	12	18.88	18.83	18.92	20
5	64QAM	1	24	19.09	19.04	19.05	
5	64QAM	12	0	18.02	17.95	17.94	
5	64QAM	12	7	17.98	17.96	17.98	19
5	64QAM	12	13	17.91	17.89	17.82	
5	64QAM	25	0	17.92	17.84	17.86	
5	256QAM	1	0	15.89	15.95	15.87	17
5	256QAM	1	12	15.70	15.69	15.68	
5	256QAM	1	24	15.85	15.83	15.81	
5	256QAM	12	0	15.69	15.75	15.71	17
5	256QAM	12	7	15.69	15.70	15.72	
5	256QAM	12	13	15.59	15.60	15.64	
5	256QAM	25	0	15.63	15.65	15.71	

Band 66 (dBm)_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.45	22.47	22.42	23.5
20	QPSK	1	49	22.22	22.34	22.19	
20	QPSK	1	99	22.30	22.30	22.27	
20	QPSK	50	0	21.42	21.47	21.45	22.5
20	QPSK	50	24	21.35	21.43	21.42	
20	QPSK	50	50	21.46	21.41	21.43	
20	QPSK	100	0	21.42	21.47	21.44	22.5
20	16QAM	1	0	21.72	21.67	21.69	
20	16QAM	1	49	21.59	21.68	21.45	
20	16QAM	1	99	21.53	21.60	21.68	21.5
20	16QAM	50	0	20.39	20.32	20.31	
20	16QAM	50	24	20.51	20.46	20.34	
20	16QAM	50	50	20.44	20.43	20.40	21.5
20	16QAM	100	0	20.45	20.42	20.32	
20	64QAM	1	0	20.68	20.65	20.66	
20	64QAM	1	49	20.56	20.66	20.40	21.5
20	64QAM	1	99	20.47	20.60	20.61	
20	64QAM	50	0	19.36	19.31	19.31	
20	64QAM	50	24	19.43	19.41	19.33	20.5
20	64QAM	50	50	19.36	19.37	19.37	
20	64QAM	100	0	19.47	19.36	19.25	
20	256QAM	1	0	17.57	17.52	17.59	18.5
20	256QAM	1	49	17.40	17.57	17.30	
20	256QAM	1	99	17.42	17.49	17.57	
20	256QAM	50	0	17.22	17.15	17.16	18.5
20	256QAM	50	24	17.32	17.36	17.17	
20	256QAM	50	50	17.35	17.28	17.26	
20	256QAM	100	0	17.31	17.34	17.17	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.26	22.28	22.23	23.5
15	QPSK	1	37	22.03	22.15	22.00	
15	QPSK	1	74	22.11	22.11	22.08	
15	QPSK	36	0	21.23	21.28	21.26	22.5
15	QPSK	36	20	21.16	21.24	21.23	
15	QPSK	36	39	21.27	21.22	21.24	
15	QPSK	75	0	21.23	21.28	21.25	22.5
15	16QAM	1	0	21.53	21.48	21.50	
15	16QAM	1	37	21.40	21.49	21.26	
15	16QAM	1	74	21.34	21.41	21.49	21.5
15	16QAM	36	0	20.20	20.13	20.12	
15	16QAM	36	20	20.32	20.27	20.15	
15	16QAM	36	39	20.25	20.24	20.21	21.5
15	16QAM	75	0	20.26	20.23	20.13	
15	64QAM	1	0	20.49	20.46	20.47	
15	64QAM	1	37	20.37	20.47	20.21	21.5
15	64QAM	1	74	20.28	20.41	20.42	
15	64QAM	36	0	19.17	19.12	19.12	
15	64QAM	36	20	19.24	19.22	19.14	20.5
15	64QAM	36	39	19.17	19.18	19.18	
15	64QAM	75	0	19.28	19.17	19.06	
15	256QAM	1	0	17.38	17.33	17.40	18.5
15	256QAM	1	37	17.21	17.38	17.11	
15	256QAM	1	74	17.23	17.30	17.38	
15	256QAM	36	0	17.03	16.96	16.97	18.5
15	256QAM	36	20	17.13	17.17	16.98	
15	256QAM	36	39	17.16	17.09	17.07	
15	256QAM	75	0	17.12	17.15	16.98	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.19	22.21	22.16	23.5
10	QPSK	1	25	21.96	22.08	21.93	
10	QPSK	1	49	22.04	22.04	22.01	
10	QPSK	25	0	21.16	21.21	21.19	22.5
10	QPSK	25	12	21.09	21.17	21.16	
10	QPSK	25	25	21.20	21.15	21.17	
10	QPSK	50	0	21.16	21.21	21.18	22.5
10	16QAM	1	0	21.46	21.41	21.43	
10	16QAM	1	25	21.33	21.42	21.19	
10	16QAM	1	49	21.27	21.34	21.42	21.5
10	16QAM	25	0	20.13	20.06	20.05	
10	16QAM	25	12	20.25	20.20	20.08	
10	16QAM	25	25	20.18	20.17	20.14	21.5
10	16QAM	50	0	20.19	20.16	20.06	
10	64QAM	1	0	20.42	20.39	20.40	
10	64QAM	1	25	20.30	20.40	20.14	21.5
10	64QAM	1	49	20.21	20.34	20.35	
10	64QAM	25	0	19.10	19.05	19.05	
10	64QAM	25	12	19.17	19.15	19.07	20.5
10	64QAM	25	25	19.10	19.11	19.11	
10	64QAM	50	0	19.21	19.10	18.99	
10	256QAM	1	0	17.31	17.26	17.33	18.5
10	256QAM	1	25	17.14	17.31	17.04	
10	256QAM	1	49	17.16	17.23	17.31	
10	256QAM	25	0	16.96	17.21	16.90	18.5
10	256QAM	25	12	17.06	17.10	16.91	
10	256QAM	25	25	17.09	17.02	17.00	
10	256QAM	50	0	17.05	17.08	16.91	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.13	22.15	22.10	23.5
5	QPSK	1	12	21.90	22.02	21.87	
5	QPSK	1	24	21.98	21.98	21.95	
5	QPSK	12	0	21.10	21.15	21.13	22.5
5	QPSK	12	7	21.03	21.11	21.10	
5	QPSK	12	13	21.14	21.09	21.11	

5	QPSK	25	0	21.10	21.15	21.12	22.5
5	16QAM	1	0	21.40	21.35	21.37	
5	16QAM	1	12	21.27	21.36	21.13	
5	16QAM	1	24	21.21	21.28	21.36	
5	16QAM	12	0	20.07	20.00	19.99	21.5
5	16QAM	12	7	20.19	20.14	20.02	
5	16QAM	12	13	20.12	20.11	20.08	
5	16QAM	25	0	20.13	20.10	20.00	
5	64QAM	1	0	20.36	20.33	20.34	21.5
5	64QAM	1	12	20.24	20.34	20.08	
5	64QAM	1	24	20.15	20.28	20.29	
5	64QAM	12	0	19.04	18.99	18.99	
5	64QAM	12	7	19.11	19.09	19.01	20.5
5	64QAM	12	13	19.04	19.05	19.05	
5	64QAM	25	0	19.15	19.04	18.93	
5	256QAM	1	0	17.25	17.20	17.27	
5	256QAM	1	12	17.08	17.25	16.98	18.5
5	256QAM	1	24	17.10	17.17	17.25	
5	256QAM	12	0	16.90	17.15	16.84	
5	256QAM	12	7	17.00	17.04	16.85	
5	256QAM	12	13	17.03	16.96	16.94	18.5
5	256QAM	25	0	16.99	17.02	16.85	
Channel				131987	132322	132857	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.17	22.19	22.14	23.5
3	QPSK	1	8	21.94	22.06	21.91	
3	QPSK	1	14	22.02	22.02	21.99	
3	QPSK	8	0	21.14	21.19	21.17	
3	QPSK	8	4	21.07	21.15	21.14	22.5
3	QPSK	8	7	21.18	21.13	21.15	
3	QPSK	15	0	21.14	21.19	21.16	
3	16QAM	1	0	21.44	21.39	21.41	
3	16QAM	1	8	21.31	21.40	21.17	22.5
3	16QAM	1	14	21.25	21.32	21.40	
3	16QAM	8	0	20.11	20.04	20.03	
3	16QAM	8	4	20.23	20.18	20.06	
3	16QAM	8	7	20.16	20.15	20.12	21.5
3	16QAM	15	0	20.17	20.14	20.04	
3	64QAM	1	0	20.40	20.37	20.38	
3	64QAM	1	8	20.28	20.38	20.12	
3	64QAM	1	14	20.19	20.32	20.33	20.5
3	64QAM	8	0	19.08	19.03	19.03	
3	64QAM	8	4	19.15	19.13	19.05	
3	64QAM	8	7	19.08	19.09	19.09	
3	64QAM	15	0	19.19	19.08	18.97	18.5
3	256QAM	1	0	17.29	17.24	17.31	
3	256QAM	1	8	17.12	17.29	17.02	
3	256QAM	1	14	17.14	17.21	17.29	
3	256QAM	8	0	16.94	17.19	16.88	18.5
3	256QAM	8	4	17.04	17.08	16.89	
3	256QAM	8	7	17.07	17.00	16.98	
3	256QAM	15	0	17.03	17.06	16.89	
Channel				131979	132322	132865	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.19	22.21	22.16	23.5
1.4	QPSK	1	3	21.96	22.08	21.93	
1.4	QPSK	1	5	22.04	22.04	22.01	
1.4	QPSK	3	0	21.16	21.21	21.19	
1.4	QPSK	3	1	21.09	21.17	21.16	
1.4	QPSK	3	3	21.20	21.15	21.17	
1.4	QPSK	6	0	21.16	21.21	21.18	22.5
1.4	16QAM	1	0	21.46	21.41	21.43	22.5
1.4	16QAM	1	3	21.33	21.42	21.19	
1.4	16QAM	1	5	21.27	21.34	21.42	
1.4	16QAM	3	0	20.13	20.06	20.05	
1.4	16QAM	3	1	20.25	20.20	20.08	
1.4	16QAM	3	3	20.18	20.17	20.14	
1.4	16QAM	6	0	20.19	21.20	20.06	21.5
1.4	64QAM	1	0	20.42	20.39	20.40	21.5
1.4	64QAM	1	3	20.30	20.40	20.14	
1.4	64QAM	1	5	20.21	20.34	20.35	
1.4	64QAM	3	0	19.10	19.05	19.05	
1.4	64QAM	3	1	19.17	19.15	19.07	
1.4	64QAM	3	3	19.10	19.11	19.11	
1.4	64QAM	6	0	19.21	19.23	18.99	20.5
1.4	256QAM	1	0	17.31	17.26	17.33	18.5
1.4	256QAM	1	3	17.14	17.31	17.04	
1.4	256QAM	1	5	17.16	17.23	17.31	
1.4	256QAM	3	0	16.96	17.21	16.90	
1.4	256QAM	3	1	17.06	17.10	16.91	
1.4	256QAM	3	3	17.09	17.02	17.00	
1.4	256QAM	6	0	17.05	17.20	16.91	18.5

n2 (PC3)_AN0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	21.36	21.44	21.45	22.5
20		1	53	21.42	21.44	21.44	
20		1	104	21.40	21.41	21.42	
20		50	1	21.04	21.01	21.09	22.5
20		50	25	21.51	21.55	21.59	
20		50	50	21.07	21.04	21.07	
20		100	0	21.06	21.03	21.03	
20	DFT-s-OFDM QPSK	1	1	21.62	21.63	21.56	22.5
20		1	53	21.57	21.44	21.62	
20		1	104	21.58	21.38	21.61	
20		50	1	20.48	20.55	20.53	22.5
20		50	25	21.33	21.55	21.40	
20		50	50	20.59	20.60	20.53	
20		100	0	20.50	20.55	20.54	
20	DFT-s-OFDM 16QAM	1	1	20.35	20.52	20.60	21.5
20	DFT-s-OFDM 64QAM	1	1	18.97	19.08	19.10	20
20	DFT-s-OFDM 256QAM	1	1	16.66	16.71	16.72	17.5
20	CP-OFDM QPSK	1	1	19.57	20.02	20.11	21
20	CP-OFDM 16QAM	1	1	19.35	19.52	19.52	20.5
20	CP-OFDM 64QAM	1	1	18.11	18.16	18.16	19.5
20	CP-OFDM 256QAM	1	1	14.69	14.71	14.77	16
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	21.59	21.53	21.52	22.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	21.55	21.57	21.53	22.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	21.58	21.41	21.66	22.5

n25 (PC3)_ANT0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	Tune-up limit (dBm)
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	21.48	21.49	21.53	22.5
40		1	108	21.50	21.56	21.55	
40		1	214	21.49	21.54	21.45	
40		108	1	21.08	21.06	21.11	22.5
40		108	54	21.62	21.55	21.61	
40		108	108	21.09	21.17	21.11	
40	DFT-s-OFDM QPSK	216	0	21.12	21.13	21.15	22.5
40		1	1	21.69	21.79	21.78	
40		1	108	21.63	21.48	21.52	
40		1	214	21.76	21.51	21.52	22.5
40		108	1	20.59	20.60	20.58	
40		108	54	21.61	21.65	21.63	
40	DFT-s-OFDM 16QAM	108	108	20.59	20.59	20.61	22.5
40		216	0	20.64	20.68	20.67	
40	DFT-s-OFDM 64QAM	1	1	20.54	20.67	20.65	21.5
40	DFT-s-OFDM 256QAM	1	1	19.07	19.19	19.13	20
40	CP-OFDM QPSK	1	1	16.75	16.82	16.81	17.5
40	CP-OFDM 16QAM	1	1	20.05	20.04	20.14	21
40	CP-OFDM 64QAM	1	1	19.55	19.57	19.58	20.5
40	CP-OFDM 256QAM	1	1	18.10	18.20	18.25	19.5
40	CP-OFDM 256QAM	1	1	14.79	14.74	14.78	16
Channel				373500	376500	379500	Tune-up limit
Frequency (MHz)				1867.5	1882.5	1897.5	(dBm)
35	DFT-s-OFDM QPSK	1	1	21.74	21.68	21.68	22
Channel				373000	376500	380000	Tune-up limit
Frequency (MHz)				1865	1882.5	1900	(dBm)
30	DFT-s-OFDM QPSK	1	1	21.47	21.59	21.54	22
Channel				372500	376500	380500	Tune-up limit
Frequency (MHz)				1862.5	1882.5	1902.5	(dBm)
25	DFT-s-OFDM QPSK	1	1	21.61	21.61	21.63	22
Channel				372000	376500	381000	Tune-up limit
Frequency (MHz)				1860	1882.5	1905	(dBm)
20	DFT-s-OFDM QPSK	1	1	21.47	21.46	21.63	22
Channel				371500	376500	381500	Tune-up limit
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	21.59	21.55	21.66	22.5
Channel				371000	376500	382000	Tune-up limit
Frequency (MHz)				1855	1882.5	1910	(dBm)
10	DFT-s-OFDM QPSK	1	1	21.57	21.45	21.50	22.5
Channel				370500	376500	382500	Tune-up limit
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	21.63	21.54	21.44	22.5

n30 (PC3)_ANT0									
BW (MHz)	Modulation	RB num	RB start	Low Channel	side Channel	high Channel	Tune-up		
Channel				462000			limit		
Frequency (MHz)				2310			(dBm)		
10	DFT-s-OFDM P1/2 BPSK	1	1		21.30		22		
10		1	26		21.32				
10		1	50		21.20				
10		25	1		20.85		22		
10		25	12		21.35				
10		25	25		20.88				
10	DFT-s-OFDM QPSK	50	0		20.87		22		
10		1	1		21.77				
10		1	26		21.42				
10		1	50		21.39		22		
10		25	1		20.37				
10		25	12		21.62				
10	DFT-s-OFDM 16QAM	25	25		20.32		21.5		
10		50	0		20.37				
10		1	1		20.46				
10	DFT-s-OFDM 64QAM	1	1		19.06		20		
10	DFT-s-OFDM 256QAM	1	1		16.50		17.5		
10	CP-OFDM QPSK	1	1		19.91		21		
10	CP-OFDM 16QAM	1	1		19.40		20.5		
10	CP-OFDM 64QAM	1	1		18.03		19		
10	CP-OFDM 256QAM	1	1		14.46		15.5		
Channel				461500	462000	462500	Tune-up		
Frequency (MHz)				2307.5	2310	2312.5	limit		
5	DFT-s-OFDM QPSK	1	1	21.31	21.32	21.37	22		

n30 (PC3)_Ant4									
BW (MHz)	Modulation	RB num	RB start	Low Channel	side Channel	high Channel	Tune-up		
Channel				462000			limit		
Frequency (MHz)				2310			(dBm)		
10	DFT-s-OFDM P1/2 BPSK	1	1		20.80		21.5		
10		1	26		20.82				
10		1	50		20.70				
10		25	1		20.35		21.5		
10		25	12		20.85				
10		25	25		20.36				
10	DFT-s-OFDM QPSK	50	0		20.37		21.5		
10		1	1		21.27				
10		1	26		20.82				
10		1	50		20.89		21.5		
10		25	1		19.87				
10		25	12		21.12				
10	DFT-s-OFDM 16QAM	25	25		19.82		21		
10		50	0		19.87				
10		1	1		19.96				
10	DFT-s-OFDM 64QAM	1	1		18.56		19.5		
10	DFT-s-OFDM 256QAM	1	1		16.00		17		
10	CP-OFDM QPSK	1	1		19.41		20.5		
10	CP-OFDM 16QAM	1	1		18.90		20		
10	CP-OFDM 64QAM	1	1		17.53		18.5		
10	CP-OFDM 256QAM	1	1		13.96		15		
Channel				461500	462000	462500	Tune-up		
Frequency (MHz)				2307.5	2310	2312.5	limit		
5	DFT-s-OFDM QPSK	1	1	20.81	20.82	20.87	21.5		

n66 (PC3)_ANT 0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	23
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	21.97	22.04	21.86	23
40		1	108	22.01	22.00	21.91	
40		1	214	21.99	22.11	21.88	
40		108	1	21.59	21.65	21.44	23
40		108	54	22.13	22.11	21.95	
40		108	108	21.66	21.72	21.54	
40		216	0	21.62	21.64	21.47	
40	DFT-s-OFDM QPSK	1	1	22.02	22.26	21.97	23
40		1	108	22.25	22.17	22.08	
40		1	214	22.14	22.25	22.01	
40		108	1	21.12	21.12	20.99	23
40		108	54	22.14	22.15	22.00	
40		108	108	21.21	21.21	21.09	
40		216	0	21.18	21.20	21.02	
40	DFT-s-OFDM 16QAM	1	1	21.21	21.23	20.98	22
40	DFT-s-OFDM 64QAM	1	1	19.69	19.76	19.62	20.5
40	DFT-s-OFDM 256QAM	1	1	17.33	17.29	17.09	18
40	CP-OFDM QPSK	1	1	20.69	20.62	20.45	21.5
40	CP-OFDM 16QAM	1	1	20.06	20.19	19.93	21
40	CP-OFDM 64QAM	1	1	18.71	18.73	18.62	19.5
40	CP-OFDM 256QAM	1	1	15.14	15.23	15.06	15.5
Channel				345500	349000	352500	23
Frequency (MHz)				1727.5	1745	1762.5	
35	DFT-s-OFDM QPSK	1	1	21.84	21.98	22.14	23
Channel				345000	349000	353000	23
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	22.10	22.16	22.02	23
Channel				344500	349000	353500	23
Frequency (MHz)				1722.5	1745	1767.5	
25	DFT-s-OFDM QPSK	1	1	22.36	22.40	22.37	23
Channel				344000	349000	354000	23
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	22.18	22.07	22.06	23
Channel				343500	349000	354500	23
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	22.12	22.03	22.03	23
Channel				343000	349000	355000	23
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	22.09	22.00	22.01	23
Channel				342500	349000	355500	23
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	22.07	22.02	22.08	23

n77(3450-3550MHz) (PC2)_Ant2										
5W (dBm)	Modulation	15W (dBm)	30W (dBm)	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	Tune-up End	
Channel									(MHz)	
Frequency (MHz)										
120	DFT+QOFDM F1/2 BPSK	1	1			24.90			25.30	
120		1	126			24.94				
120		1	271			24.97				
120		125	1			24.99				
120		125	27			24.99				
120		125	126			24.99				
120	DFT+QOFDM QPSK	270	0			24.99			25.80	
120		1	1			25.11				
120		1	126			24.99				
120		1	271			24.99				
120		125	1			25.80				
120		125	27			24.99				
120	DFT+QOFDM 16QAM	125	126			24.99			25.30	
120		270	0			25.81				
120		1	1			25.71				
120		1	126			25.71				
120		1	271			25.71				
120		125	126			25.71				
120	DFT+QOFDM 64QAM	1	1			25.71			25.30	
120	DFT+QOFDM 128QAM	1	1			25.71			25.30	
120	DFT+QOFDM 256QAM	1	1			25.71			25.30	
120	CP-QOFDM QPSK	1	1			25.71			25.30	
120	CP-QOFDM 16QAM	1	1			25.71			25.30	
120	CP-QOFDM 64QAM	1	1			25.71			25.30	
120	CP-QOFDM 256QAM	1	1			25.71			25.30	
Channel				25.000	25.168	25.336	25.504	25.672	Tune-up End	
Frequency (MHz)				24.95	24.97.52	25.00.01	25.02.5	25.04.96	(MHz)	
30	DFT+QOFDM QPSK	1	1	24.97	24.93	24.88	24.83	24.80	25.30	
Channel				25.000	25.000	25.000	25.000	25.000	Tune-up End	
Frequency (MHz)				24.95.12	24.95	25.00.01	25.04.96	25.10	(MHz)	
30	DFT+QOFDM QPSK	1	1	24.98	24.97	24.93	24.88	24.83	25.30	
Channel				25.000	25.000	25.000	25.000	25.000	Tune-up End	
Frequency (MHz)				24.95.01	24.92.51	25.00.01	25.07.48	25.14.96	(MHz)	
30	DFT+QOFDM QPSK	1	1	24.97	24.93	24.87	24.83	24.80	25.30	
Channel				25.000	25.000	25.000	25.000	25.000	Tune-up End	
Frequency (MHz)				24.95.12	24.97.5	25.00.01	25.10	25.20	(MHz)	
30	DFT+QOFDM QPSK	1	1	24.93	24.88	24.87	24.83	24.80	25.30	
Channel				25.000	25.000	25.000	25.000	25.000	Tune-up End	
Frequency (MHz)				24.95.01	24.95.01	25.00.01	25.14.96	25.20.96	(MHz)	
40	DFT+QOFDM QPSK	1	1	24.77	24.74	24.69	24.61	24.53	25.30	
Channel				25.000	25.168	25.336	25.504	25.672	Tune-up End	
Frequency (MHz)				24.95	24.92.52	25.00.01	25.17.5	25.34.96	(MHz)	
30	DFT+QOFDM QPSK	1	1	24.72	24.68	24.63	24.79	24.82	25.30	
Channel				25.000	25.000	25.000	25.000	25.000	Tune-up End	
Frequency (MHz)				24.92.51	24.91.26	25.00.01	25.18.76	25.37.46	(MHz)	
20	DFT+QOFDM QPSK	1	1	24.91	24.88	24.89	24.88	25.04	25.80	
Channel				25.000	25.000	25.000	25.000	25.000	Tune-up End	
Frequency (MHz)				24.93.12	24.95	25.00.01	25.18.96	25.40	(MHz)	
20	DFT+QOFDM QPSK	1	1	24.48	24.45	24.58	24.58	24.60	25.30	
Channel				25.000	25.18.10	25.336	25.470	25.600	Tune-up End	
Frequency (MHz)				24.97.5	24.79.74	25.00.01	25.21.25	25.42.46	(MHz)	
10	DFT+QOFDM QPSK	1	1	24.43	24.50	24.68	24.61	24.72	25.30	
Channel				25.000	25.18.10	25.336	25.470	25.600	Tune-up End	
Frequency (MHz)				24.95.01	24.77.51	25.00.01	25.22.21	25.44.96	(MHz)	
10	DFT+QOFDM QPSK	1	1	24.30	24.40	24.61	24.50	24.50	25.30	

n77(3700-3980MHz) (PC2)_Ant2										
5W (dBm)	Modulation	15W (dBm)	30W (dBm)	Low Channel	Low-Middle Channel	Middle Channel	Middle-High Channel	High Channel	Turn-up limit	
Channel				60000	60000	60000	60000	60000	(dBm)	
Frequency (MHz)				3700	3700	3800	3800	3900		
100	DFT+QPSK F10 8PSK	1	1	24.34	25.15	24.41	24.27	24.05	26.30	
100		1	100	24.38	24.65	24.59	24.54	24.51		
100		1	200	24.20	24.61	24.27	24.27	24.45		
100		100	1	24.31	24.49	24.42	24.34	24.46		
100		100	100	24.39	24.65	24.55	24.58	24.58		
100		100	100	24.19	24.47	24.34	24.32	24.37		
100	DFT+QPSK F10 8PSK	200	0	24.26	24.46	24.29	24.47	24.46	26.30	
100		1	1	25.15	25.18	25.19	25.19	25.19		
100		1	100	24.37	24.58	24.58	24.55	24.54		
100		1	200	24.31	24.37	24.35	24.44	24.44		
100		100	1	23.79	24.02	24.11	24.10	23.94		
100		100	100	24.45	24.42	24.48	24.41	24.40		
100	DFT+QPSK F10 8PSK	100	100	23.73	23.81	23.81	23.81	23.81	26.30	
100		100	100	23.71	24.00	24.01	23.93	23.94		
100		200	0	23.84	24.00	23.95	23.98	24.07		
100		1	1	22.25	22.41	22.27	22.33	22.37		
100		1	1	20.24	20.52	20.27	20.38	20.38		
100		1	1	23.30	23.58	23.38	23.55	23.57		
100	QPSK F10 8PSK	1	1	22.85	23.64	22.79	23.13	23.40	23.80	
100	QPSK F10 8PSK	1	1	21.25	21.50	21.32	21.52	21.51	22.30	
100	QPSK F10 8PSK	1	1	18.18	18.55	18.35	18.48	18.48	19.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3744.00	3762.51	3840	3867.49	3934.00	(dBm)	
50	DFT+QPSK F10 8PSK	1	1	24.38	24.57	24.48	24.59	24.59	25.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3744.01	3762.52	3840	3867.49	3934.00	(dBm)	
50	DFT+QPSK F10 8PSK	1	1	24.35	24.57	24.54	24.62	24.62	25.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3750	3767.5	3840	3860.5	3940	(dBm)	
10	DFT+QPSK F10 8PSK	1	1	24.42	24.57	24.69	24.61	24.72	25.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3750.02	3765.51	3840	3864.00	3940.00	(dBm)	
50	DFT+QPSK F10 8PSK	1	1	24.45	24.58	24.62	24.61	24.62	25.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3755.51	3762.52	3840	3864.00	3940.00	(dBm)	
50	DFT+QPSK F10 8PSK	1	1	24.53	24.59	24.68	24.72	24.61	25.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3760	3760	3840	3860	3940	(dBm)	
40	DFT+QPSK F10 8PSK	1	1	24.72	24.78	24.97	25.08	25.12	25.80	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3765.02	3777.51	3840	3862.49	3940.00	(dBm)	
50	DFT+QPSK F10 8PSK	1	1	24.70	24.65	24.78	24.78	24.65	25.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3765.05	3776.25	3840	3863.75	3937.5	(dBm)	
20	DFT+QPSK F10 8PSK	1	1	24.68	24.65	25.04	25.09	25.15	25.80	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3769.01	3775.02	3840	3864.00	3939.00	(dBm)	
20	DFT+QPSK F10 8PSK	1	1	24.68	24.65	24.65	24.58	24.65	25.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3769.02	3773.75	3840	3868.24	3937.49	(dBm)	
10	DFT+QPSK F10 8PSK	1	1	24.71	24.61	24.70	24.70	24.65	25.30	
Channel				60000	60000	60000	60000	60000	Turn-up limit	
Frequency (MHz)				3765	3772.5	3840	3867.5	3937.5	(dBm)	
10	DFT+QPSK F10 8PSK	1	1	24.79	24.63	24.80	24.79	25.02	25.80	

n77(3450-3550MHz) (PC3)_Ant2									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			22.85			23.50
100		1	136			22.46			
100		1	271			22.11			
100		135	1			22.69			23.50
100		135	67			22.55			
100	DFT-s-OFDM QPSK	135	136			22.25			
100		270	0			22.53			
100		1	1			22.97			23.50
100		1	136			22.45			
100		1	271			22.19			
100		135	1			22.69			23.50
100		135	67			22.53			
100		135	136			22.24			
100		270	0			22.54			
100	DFT-s-OFDM 16QAM	1	1			22.96			23.50
100	DFT-s-OFDM 64QAM	1	1			22.82			23.50
100	DFT-s-OFDM 256QAM	1	1			21.77			22.50
100	CP-OFDM QPSK	1	1			22.86			23.50
100	CP-OFDM 16QAM	1	1			22.81			23.50
100	CP-OFDM 64QAM	1	1			22.71			23.50
100	CP-OFDM 256QAM	1	1			19.73			20.50
Channel				633000	633168	633334	633500	633666	Tune-up limit
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	(dBm)
90	DFT-s-OFDM QPSK	1	1	22.80	22.78	22.77	22.86	22.85	23.50
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	22.71	22.70	22.75	22.74	22.75	23.50
Channel				632334	632668	633334	633666	634000	Tune-up limit
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	(dBm)
70	DFT-s-OFDM QPSK	1	1	22.82	22.74	22.77	22.74	22.83	23.50
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	22.74	22.74	22.82	22.80	22.80	23.50
Channel				631668	632500	633334	634166	635000	Tune-up limit
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	(dBm)
50	DFT-s-OFDM QPSK	1	1	22.75	22.70	22.81	22.76	22.66	23.50
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	23.06	23.03	23.07	23.04	22.90	24.00
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.00	22.99	23.02	22.91	22.78	24.00
Channel				630834	632084	633334	634584	635832	Tune-up limit
Frequency (MHz)				3462.51	3481.26	3500.01	3518.76	3537.48	(dBm)
25	DFT-s-OFDM QPSK	1	1	23.18	23.07	23.20	23.20	23.30	24.00
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	22.76	22.73	22.82	22.89	22.92	23.50
Channel				630500	631916	633334	634750	636166	Tune-up limit
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	(dBm)
15	DFT-s-OFDM QPSK	1	1	22.85	22.75	22.95	22.90	22.95	23.50
Channel				630334	631834	633334	634834	636332	Tune-up limit
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	(dBm)
10	DFT-s-OFDM QPSK	1	1	22.82	22.58	22.87	22.91	22.86	23.50

n77(3700-3980MHz) (PC3)_Ant2									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	23.50
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	22.28	22.76	22.44	22.39	22.30	23.50
100		1	136	22.49	22.53	22.22	22.61	22.62	
100		1	271	22.34	22.24	22.15	22.48	22.70	
100		135	1	22.44	22.67	22.32	22.54	22.48	23.50
100		135	67	22.53	22.58	22.25	22.57	22.64	
100		135	136	22.40	22.32	22.19	22.56	22.64	
100		270	0	22.43	22.57	22.19	22.52	22.56	
100	DFT-s-OFDM QPSK	1	1	22.60	22.78	22.80	22.68	22.62	23.50
100		1	136	22.50	22.60	22.17	22.60	22.65	
100		1	271	22.30	22.18	22.17	22.41	22.63	
100		135	1	22.40	21.82	22.37	22.50	22.50	23.50
100		135	67	22.52	22.59	22.60	22.58	22.55	
100		135	136	22.41	22.26	22.15	22.54	22.60	
100		270	0	22.19	22.33	22.40	22.33	22.37	
100	DFT-s-OFDM 16QAM	1	1	22.26	22.70	22.58	22.51	22.47	23.50
100	DFT-s-OFDM 64QAM	1	1	22.28	22.53	22.29	22.28	22.14	23.50
100	DFT-s-OFDM 256QAM	1	1	21.12	21.57	21.21	21.24	21.13	22.50
100	CP-OFDM QPSK	1	1	22.38	22.79	22.44	22.44	22.47	23.50
100	CP-OFDM 16QAM	1	1	22.25	22.68	22.39	22.36	22.41	23.50
100	CP-OFDM 64QAM	1	1	22.19	22.71	22.29	22.24	22.38	23.50
100	CP-OFDM 256QAM	1	1	19.14	19.62	19.31	19.24	19.17	20.50
Channel				649666	652834	656000	659166	662332	Tune-up limit
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	22.27	22.71	22.44	22.19	22.34	23.50
Channel				649334	652668	656000	659332	662666	Tune-up limit
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	22.23	22.76	22.38	22.21	22.45	23.50
Channel				649000	652500	656000	659500	663000	Tune-up limit
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	(dBm)
70	DFT-s-OFDM QPSK	1	1	22.33	22.70	22.40	22.22	22.58	23.50
Channel				648668	652334	656000	659666	663332	Tune-up limit
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	22.34	22.72	22.32	22.21	22.67	23.50
Channel				648334	652168	656000	659832	663666	Tune-up limit
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	(dBm)
50	DFT-s-OFDM QPSK	1	1	22.44	22.66	22.32	22.35	22.81	23.50
Channel				648000	652000	656000	660000	664000	Tune-up limit
Frequency (MHz)				3720	3780	3840	3900	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	22.89	23.00	22.68	22.67	23.18	24.00
Channel				647668	651834	656000	660166	664332	Tune-up limit
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	22.64	22.94	22.49	22.63	23.06	24.00
Channel				647500	651750	656000	660250	664500	Tune-up limit
Frequency (MHz)				3712.5	3776.25	3840	3903.75	3967.5	(dBm)
25	DFT-s-OFDM QPSK	1	1	22.93	23.17	22.81	22.86	23.37	24.00
Channel				647334	651668	656000	660332	664666	Tune-up limit
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	22.65	22.74	22.39	22.48	23.08	24.00
Channel				647168	651584	656000	660416	664832	Tune-up limit
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	(dBm)
15	DFT-s-OFDM QPSK	1	1	22.58	22.68	22.33	22.53	22.96	23.50
Channel				647000	651500	656000	660500	665000	Tune-up limit
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	(dBm)
10	DFT-s-OFDM QPSK	1	1	22.59	22.74	22.41	22.62	23.02	24.00

5.2GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 5	802.11a 6Mbps	CH 36	5180	16.84	17.50	19.50	97.89
		CH 44	5220	16.79	17.50	19.50	
		CH 48	5240	16.84	17.50	19.50	
	802.11n-HT20 MCS0	CH 36	5180	16.70	17.50	19.50	97.76
		CH 44	5220	16.63	17.50	19.50	
		CH 48	5240	16.66	17.50	19.50	
	802.11n-HT40 MCS0	CH 38	5190	15.79	16.50	17.50	95.59
		CH 46	5230	15.75	16.50	17.50	
	802.11ac-VHT20 MCS0	CH 36	5180	16.75	17.50	19.50	97.74
		CH 44	5220	16.68	17.50	19.50	
		CH 48	5240	16.71	17.50	19.50	
	802.11ac-VHT40 MCS0	CH 38	5190	15.79	16.50	17.50	95.59
		CH 46	5230	15.74	16.50	17.50	
	802.11ac-VHT80 MCS0	CH 42	5210	13.68	14.50	15.50	88.89

5.3GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 5	802.11a 6Mbps	CH 52	5260	16.88	17.50	19.50	97.89
		CH 60	5300	16.95	17.50	19.50	
		CH 64	5320	16.99	17.50	19.50	
	802.11n-HT20 MCS0	CH 52	5260	16.70	17.50	19.50	97.74
		CH 60	5300	16.80	17.50	19.50	
		CH 64	5320	16.84	17.50	19.50	
	802.11ac-VHT20 MCS0	CH 52	5260	16.74	17.50	19.50	97.01
		CH 60	5300	16.83	17.50	19.50	
		CH 64	5320	16.86	17.50	19.50	

5.5GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 5	802.11a 6Mbps	CH 100	5500	15.96	16.50	19.50	97.89
		CH 120	5600	15.48	16.00	19.50	
		CH 144	5720	15.13	16.00	19.50	
	802.11n-HT20 MCS0	CH 100	5500	16.45	17.00	19.50	97.74
		CH 120	5600	15.98	16.50	19.50	
		CH 144	5720	15.72	16.50	19.50	
	802.11n-HT40 MCS0	CH 102	5510	15.43	16.00	17.50	95.59
		CH 126	5630	15.17	16.00	17.50	
		CH 142	5710	14.77	15.50	17.50	
	802.11ac-VHT20 MCS0	CH 100	5500	16.55	17.00	19.50	97.74
		CH 120	5600	16.46	17.00	19.50	
		CH 144	5720	16.41	16.50	19.50	
	802.11ac-VHT40 MCS0	CH 102	5510	15.42	16.00	17.50	100.00
		CH 126	5630	15.15	16.00	17.50	
		CH 142	5710	14.78	15.50	17.50	
	802.11ac-VHT80 MCS0	CH 106	5630	13.51	14.50	15.50	91.67
		CH 122	5610	13.27	14.00	15.50	
		CH 138	5690	12.64	13.50	15.50	

5.8GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 5	802.11a 6Mbps	CH 149	5745	16.22	17.00	19.50	97.20
		CH 157	5785	16.26	17.00	19.50	
		CH 165	5825	16.38	17.00	19.50	
	802.11n-HT20 MCS0	CH 149	5745	15.61	16.50	19.50	97.74
		CH 157	5785	16.05	17.00	19.50	
		CH 165	5825	16.11	17.00	19.50	
	802.11n-HT40 MCS0	CH 151	5755	14.78	15.50	17.50	95.59
		CH 159	5795	15.03	16.00	17.50	
	802.11ac-VHT20 MCS0	CH 149	5745	15.61	16.50	19.50	97.74
		CH 157	5785	16.04	17.00	19.50	
		CH 165	5825	16.10	17.00	19.50	
	802.11ac-VHT40 MCS0	CH 151	5755	14.79	15.50	17.50	94.12
		CH 159	5795	15.04	16.00	17.50	
	802.11ac-VHT80 MCS0	CH 155	5775	13.10	14.00	15.50	88.89

Reduced Power Level 6

2.4GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 5	802.11b 1Mbps	CH 1	2412	14.37	15.00	14.50	98.29
		CH 6	2437	14.30	15.00	14.50	
		CH 11	2462	14.47	15.00	14.50	
	802.11g 6Mbps	CH 1	2412	14.03	15.00	13.50	97.61
		CH 6	2437	13.90	14.50	13.50	
		CH 11	2462	14.02	15.00	13.50	
	802.11n-HT20 MCS0	CH 1	2412	12.83	13.50	13.50	97.46
		CH 6	2437	12.78	13.50	13.50	
		CH 11	2462	12.90	13.50	13.50	
	802.11n-HT40 MCS0	CH 3	2422	13.60	14.50	13.50	92.82
		CH 6	2437	13.50	14.50	13.50	
		CH 9	2452	13.17	14.00	13.50	

5.2GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 5	802.11a 6Mbps	CH 36	5180	10.34	11.00	14.00	97.89
		CH 44	5220	10.29	11.00	14.00	
		CH 48	5240	10.34	11.00	14.00	
	802.11n-HT20 MCS0	CH 36	5180	10.20	11.00	14.00	97.76
		CH 44	5220	10.13	11.00	14.00	
		CH 48	5240	10.16	11.00	14.00	
	802.11n-HT40 MCS0	CH 38	5190	9.29	10.00	12.00	95.59
		CH 46	5230	9.25	10.00	12.00	
	802.11ac-VHT20 MCS0	CH 36	5180	10.25	11.00	14.00	97.74
		CH 44	5220	10.18	11.00	14.00	
		CH 48	5240	10.21	11.00	14.00	
	802.11ac-VHT40 MCS0	CH 38	5190	9.29	10.00	12.00	95.59
		CH 46	5230	9.24	10.00	12.00	
	802.11ac-VHT80 MCS0	CH 42	5210	7.18	8.00	10.00	88.89

5.3GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 5	802.11a 6Mbps	CH 52	5260	12.38	13.50	14.00	97.89
		CH 60	5300	12.45	13.50	14.00	
		CH 64	5320	12.49	13.50	14.00	
	802.11n-HT20 MCS0	CH 52	5260	12.20	13.00	14.00	97.74
		CH 60	5300	12.30	13.00	14.00	
		CH 64	5320	12.34	13.00	14.00	
	802.11ac-VHT20 MCS0	CH 52	5260	12.24	13.00	14.00	97.01
		CH 60	5300	12.33	13.00	14.00	
		CH 64	5320	12.36	13.00	14.00	

5.5GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 5	802.11a 6Mbps	CH 100	5500	11.46	12.00	13.50	97.89
		CH 120	5600	10.98	11.50	13.50	
		CH 144	5720	10.63	11.50	13.50	
	802.11n-HT20 MCS0	CH 100	5500	11.95	12.50	13.50	97.74
		CH 120	5600	11.48	12.00	13.50	
		CH 144	5720	11.22	12.00	13.50	
	802.11n-HT40 MCS0	CH 102	5510	10.93	11.50	11.50	95.59
		CH 126	5630	10.67	11.50	11.50	
		CH 142	5710	10.27	11.00	11.50	
	802.11ac-VHT20 MCS0	CH 100	5500	12.05	12.50	13.50	97.74
		CH 120	5600	11.52	12.00	13.50	
		CH 144	5720	11.25	12.00	13.50	
	802.11ac-VHT40 MCS0	CH 102	5510	10.92	11.50	11.50	100.00
		CH 126	5630	10.65	11.50	11.50	
		CH 142	5710	10.28	11.00	11.50	
	802.11ac-VHT80 MCS0	CH 106	5530	9.01	10.00	9.50	91.67
		CH 122	5610	8.77	9.50	9.50	
		CH 138	5690	8.14	9.00	9.50	

5.8GHz WLAN ANT 5

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 5	802.11a 6Mbps	CH 149	5745	11.21	12.00	13.50	97.20
		CH 157	5785	11.62	12.50	13.50	
		CH 165	5825	11.68	12.50	13.50	
	802.11n-HT20 MCS0	CH 149	5745	11.11	12.00	13.50	97.74
		CH 157	5785	11.55	12.50	13.50	
		CH 165	5825	11.61	12.50	13.50	
	802.11n-HT40 MCS0	CH 151	5755	10.28	11.00	11.50	95.59
		CH 159	5795	10.53	11.50	11.50	
	802.11ac-VHT20 MCS0	CH 149	5745	11.11	12.00	13.50	97.74
		CH 157	5785	11.54	12.50	13.50	
		CH 165	5825	11.60	12.50	13.50	
	802.11ac-VHT40 MCS0	CH 151	5755	10.29	11.00	11.50	94.12
		CH 159	5795	10.54	11.50	11.50	
	802.11ac-VHT80 MCS0	CH 155	5775	8.60	9.50	9.50	88.89