



REPORT No.: SZ25110195S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

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

Full Power

Band 2 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	24
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.06	22.92	22.73	24
20	QPSK	1	49	23.02	22.96	22.93	
20	QPSK	1	99	22.95	22.90	22.85	
20	QPSK	50	0	21.94	21.92	21.60	
20	QPSK	50	24	21.83	21.73	21.79	23
20	QPSK	50	50	21.93	21.85	21.76	
20	QPSK	100	0	21.87	21.83	21.56	
20	16QAM	1	0	21.90	21.90	21.89	
20	16QAM	1	49	21.88	21.76	21.91	23
20	16QAM	1	99	21.95	21.83	21.82	
20	16QAM	50	0	21.00	21.04	20.93	
20	16QAM	50	24	21.02	20.97	20.86	
20	16QAM	50	50	21.03	20.96	20.92	22
20	16QAM	100	0	20.93	20.90	20.94	
20	64QAM	1	0	20.96	20.93	20.92	
20	64QAM	1	49	20.90	20.81	20.79	
20	64QAM	1	99	20.83	20.74	20.85	22
20	64QAM	50	0	19.97	20.03	20.03	
20	64QAM	50	24	19.94	19.97	19.97	
20	64QAM	50	50	19.98	20.08	19.92	
20	64QAM	100	0	19.90	19.87	19.93	19
20	256QAM	1	0	17.66	17.66	17.50	
20	256QAM	1	49	17.58	17.62	17.58	
20	256QAM	1	99	17.55	17.68	17.50	
20	256QAM	50	0	17.45	17.61	17.60	19
20	256QAM	50	24	17.70	17.35	17.53	
20	256QAM	50	50	17.78	17.56	17.65	
20	256QAM	100	0	17.69	17.53	17.53	
Channel				1867.5	18900	19125	24
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.94	22.81	22.71	24
15	QPSK	1	37	23.00	22.88	22.79	
15	QPSK	1	74	22.92	22.83	22.75	
15	QPSK	36	0	21.89	21.83	21.49	
15	QPSK	36	20	21.76	21.70	21.73	23
15	QPSK	36	39	21.83	21.72	21.68	
15	QPSK	75	0	21.75	21.79	21.43	
15	16QAM	1	0	21.73	21.77	21.81	
15	16QAM	1	37	21.95	21.83	21.81	23
15	16QAM	1	74	21.87	21.81	21.95	
15	16QAM	36	0	20.81	20.94	21.03	
15	16QAM	36	20	21.03	21.05	20.72	
15	16QAM	36	39	20.83	20.79	21.06	22
15	16QAM	75	0	21.03	20.97	20.86	
15	64QAM	1	0	21.04	20.80	20.90	
15	64QAM	1	37	20.70	20.85	20.84	
15	64QAM	1	74	20.78	20.69	21.00	21
15	64QAM	36	0	19.84	19.90	19.86	
15	64QAM	36	20	20.01	19.98	19.87	
15	64QAM	36	39	19.78	20.21	19.76	
15	64QAM	75	0	20.00	19.75	20.03	19
15	256QAM	1	0	17.73	17.80	17.65	
15	256QAM	1	37	17.61	17.62	17.68	
15	256QAM	1	74	17.36	17.51	17.64	
15	256QAM	36	0	17.59	17.53	17.58	19
15	256QAM	36	20	17.50	17.48	17.45	
15	256QAM	36	39	17.77	17.57	17.45	
15	256QAM	75	0	17.63	17.45	17.62	
Channel				18650	18900	19150	24
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.02	22.90	22.63	24
10	QPSK	1	25	23.01	22.95	22.82	
10	QPSK	1	49	22.94	22.79	22.74	
10	QPSK	25	0	21.81	21.84	21.58	
10	QPSK	25	12	21.82	21.66	21.71	23
10	QPSK	25	25	21.88	21.77	21.63	
10	QPSK	50	0	21.82	21.80	21.50	
10	16QAM	1	0	21.79	21.81	21.80	
10	16QAM	1	25	21.84	21.78	22.00	23
10	16QAM	1	49	22.08	21.67	21.63	
10	16QAM	25	0	20.88	21.05	20.75	
10	16QAM	25	12	20.85	21.07	20.94	
10	16QAM	25	25	21.04	20.95	20.86	22
10	16QAM	50	0	20.99	21.01	20.77	
10	64QAM	1	0	21.04	20.79	21.04	
10	64QAM	1	25	20.87	20.86	20.75	
10	64QAM	1	49	20.82	20.69	20.99	21
10	64QAM	25	0	19.91	19.83	19.91	
10	64QAM	25	12	19.82	19.88	20.08	
10	64QAM	25	25	19.96	20.12	19.83	
10	64QAM	50	0	19.83	19.90	19.83	19
10	256QAM	1	0	17.62	17.56	17.52	
10	256QAM	1	25	17.45	17.61	17.42	
10	256QAM	1	49	17.62	17.55	17.60	
10	256QAM	25	0	17.31	17.68	17.59	19
10	256QAM	25	12	17.76	17.39	17.66	
10	256QAM	25	25	17.66	17.49	17.49	
10	256QAM	50	0	17.78	17.33	17.66	
Channel				18625	18900	19175	24
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.98	22.82	22.61	24
5	QPSK	1	12	22.95	22.90	22.86	
5	QPSK	1	24	22.81	22.79	22.84	
5	QPSK	12	0	21.81	21.80	21.49	
5	QPSK	12	7	21.74	21.71	21.69	23
5	QPSK	12	13	21.90	21.74	21.67	

Band 4 (AWS Band) (dBm) 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	24
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.08	23.02	23.12	24
20	QPSK	1	49	23.10	23.00	23.04	
20	QPSK	1	99	22.97	22.94	23.08	
20	QPSK	50	0	22.60	22.64	22.66	
20	QPSK	50	24	22.56	22.62	22.58	23
20	QPSK	50	50	22.52	22.49	22.51	
20	QPSK	100	0	22.64	22.62	22.65	
20	16QAM	1	0	22.43	22.54	22.62	
20	16QAM	1	49	22.60	22.44	22.51	23.5
20	16QAM	1	99	22.55	22.50	22.53	
20	16QAM	50	0	21.87	21.71	21.80	
20	16QAM	50	24	21.76	21.76	21.81	
20	16QAM	50	50	21.80	21.78	21.79	22.5
20	16QAM	100	0	21.64	21.67	21.70	
20	64QAM	1	0	21.35	21.18	21.40	
20	64QAM	1	49	21.32	21.21	21.34	
20	64QAM	1	99	21.28	21.14	21.36	22.5
20	64QAM	50	0	20.86	20.75	20.91	
20	64QAM	50	24	20.73	20.67	20.79	
20	64QAM	50	50	20.65	20.80	20.77	
20	64QAM	100	0	20.62	20.70	20.83	19.5
20	256QAM	1	0	18.66	18.78	18.67	
20	256QAM	1	49	18.49	18.56	18.69	
20	256QAM	1	99	18.62	18.45	18.57	
20	256QAM	50	0	18.46	18.66	18.43	19.5
20	256QAM	50	24	18.51	18.66	18.68	
20	256QAM	50	50	18.52	18.58	18.52	
20	256QAM	100	0	18.63	18.38	18.51	
Channel				20025	20175	20325	24
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.94	22.91	23.08	24
15	QPSK	1	37	23.05	22.91	22.97	
15	QPSK	1	74	22.91	22.91	22.97	
15	QPSK	36	0	22.48	22.52	22.56	
15	QPSK	36	20	22.49	22.55	22.47	23
15	QPSK	36	39	22.40	22.42	22.46	
15	QPSK	75	0	22.57	22.49	22.54	
15	16QAM	1	0	22.53	22.52	22.71	
15	16QAM	1	37	22.66	22.59	22.61	23.5
15	16QAM	1	74	22.70	22.59	22.63	
15	16QAM	36	0	21.81	21.69	21.93	
15	16QAM	36	20	21.84	21.75	21.62	
15	16QAM	36	39	21.82	21.72	21.86	22.5
15	16QAM	75	0	21.73	21.51	21.62	
15	64QAM	1	0	21.38	21.11	21.50	
15	64QAM	1	37	21.13	21.14	21.15	
15	64QAM	1	74	21.33	21.14	21.21	22.5
15	64QAM	36	0	20.72	20.69	20.76	
15	64QAM	36	20	20.62	20.72	20.86	
15	64QAM	36	39	20.55	20.91	20.74	
15	64QAM	75	0	20.68	20.50	20.80	21.5
15	256QAM	1	0	18.65	18.81	18.75	
15	256QAM	1	37	18.61	18.61	18.54	
15	256QAM	1	74	18.63	18.31	18.62	
15	256QAM	36	0	18.49	18.57	18.38	

5	QPSK	25	0	21.82	21.75	21.42	23
5	16QAM	1	0	21.92	21.95	21.84	
5	16QAM	1	12	22.03	21.58	21.75	
5	16QAM	1	24	21.84	21.92	21.68	
5	16QAM	12	0	20.93	21.11	20.98	22
5	16QAM	12	7	20.85	21.04	20.96	
5	16QAM	12	13	21.00	20.83	20.90	
5	16QAM	25	0	20.74	20.86	20.97	
5	64QAM	1	0	20.95	21.01	20.80	22
5	64QAM	1	12	20.90	20.78	20.79	
5	64QAM	1	24	20.95	20.65	20.76	
5	64QAM	12	0	19.83	19.95	19.84	
5	64QAM	12	7	19.87	19.88	19.94	21
5	64QAM	12	13	20.08	20.21	19.82	
5	64QAM	25	0	19.84	20.02	20.00	
5	256QAM	1	0	17.67	17.62	17.65	
5	256QAM	1	12	17.52	17.67	17.53	19
5	256QAM	1	24	17.66	17.61	17.60	
5	256QAM	12	0	17.52	17.72	17.71	
5	256QAM	12	7	17.56	17.22	17.55	
5	256QAM	12	13	17.71	17.60	17.64	19
5	256QAM	25	0	17.53	17.52	17.33	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.96	22.81	22.64	24
3	QPSK	1	8	22.88	22.88	22.80	
3	QPSK	1	14	22.90	22.83	22.76	
3	QPSK	8	0	21.84	21.87	21.57	
3	QPSK	8	4	21.74	21.65	21.72	23
3	QPSK	8	7	21.85	21.72	21.72	
3	QPSK	15	0	21.74	21.80	21.51	
3	16QAM	1	0	21.81	21.89	21.92	
3	16QAM	1	8	21.86	21.64	21.72	23
3	16QAM	1	14	21.75	21.81	21.76	
3	16QAM	8	0	20.97	20.95	20.89	
3	16QAM	8	4	20.87	20.83	20.82	
3	16QAM	8	7	21.12	21.05	21.04	22
3	16QAM	15	0	21.06	20.81	20.96	
3	64QAM	1	0	20.97	20.97	20.76	
3	64QAM	1	8	20.71	20.66	20.84	
3	64QAM	1	14	20.78	20.82	20.70	22
3	64QAM	8	0	20.09	19.86	19.93	
3	64QAM	8	4	20.00	19.90	20.03	
3	64QAM	8	7	20.13	19.94	19.88	
3	64QAM	15	0	19.96	19.84	20.07	21
3	256QAM	1	0	17.65	17.56	17.37	
3	256QAM	1	8	17.49	17.77	17.66	
3	256QAM	1	14	17.53	17.61	17.40	
3	256QAM	8	0	17.43	17.47	17.50	19
3	256QAM	8	4	17.62	17.34	17.39	
3	256QAM	8	7	17.65	17.39	17.53	
3	256QAM	15	0	17.83	17.67	17.65	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.04	22.90	22.67	24
1.4	QPSK	1	3	23.00	22.95	22.86	
1.4	QPSK	1	5	22.87	22.85	22.72	
1.4	QPSK	3	0	22.41	22.35	22.09	
1.4	QPSK	3	1	22.25	22.10	22.15	23
1.4	QPSK	3	3	22.38	22.24	22.22	
1.4	QPSK	6	0	21.85	21.70	21.49	
1.4	16QAM	1	0	21.79	21.88	21.73	
1.4	16QAM	1	3	21.86	21.61	21.91	23
1.4	16QAM	1	5	21.82	21.73	21.93	
1.4	16QAM	3	0	21.64	21.90	21.50	
1.4	16QAM	3	1	21.50	21.83	21.81	
1.4	16QAM	3	3	21.89	21.93	21.52	22
1.4	16QAM	6	0	20.98	21.04	21.09	
1.4	64QAM	1	0	21.02	20.82	21.04	
1.4	64QAM	1	3	21.02	20.64	20.80	
1.4	64QAM	1	5	20.75	20.64	20.84	22
1.4	64QAM	3	0	20.36	20.49	20.38	
1.4	64QAM	3	1	20.49	20.61	20.42	
1.4	64QAM	3	3	20.36	20.44	20.34	
1.4	64QAM	6	0	19.78	19.79	20.04	21
1.4	256QAM	1	0	17.79	17.68	17.52	
1.4	256QAM	1	3	17.51	17.51	17.70	
1.4	256QAM	1	5	17.41	17.69	17.63	
1.4	256QAM	3	0	17.41	17.62	17.40	19
1.4	256QAM	3	1	17.66	17.50	17.40	
1.4	256QAM	3	3	17.73	17.42	17.66	
1.4	256QAM	6	0	17.83	17.61	17.56	

5	QPSK	25	0	22.62	22.55	22.55	23.5
5	16QAM	1	0	22.45	22.44	22.53	
5	16QAM	1	12	22.55	22.25	22.55	
5	16QAM	1	24	22.57	22.32	22.53	
5	16QAM	12	0	21.69	21.53	21.62	22.5
5	16QAM	12	7	21.79	21.82	21.78	
5	16QAM	12	13	21.90	21.60	21.64	
5	16QAM	25	0	21.49	21.77	21.51	
5	64QAM	1	0	21.16	21.25	21.23	22.5
5	64QAM	1	12	21.34	21.18	21.16	
5	64QAM	1	24	21.39	21.13	21.48	
5	64QAM	12	0	20.94	20.88	20.78	
5	64QAM	12	7	20.81	20.61	20.64	21.5
5	64QAM	12	13	20.45	20.90	20.85	
5	64QAM	25	0	20.52	20.57	20.64	
5	256QAM	1	0	18.74	18.61	18.56	
5	256QAM	1	12	18.64	18.41	18.62	19
5	256QAM	1	24	18.61	18.46	18.54	
5	256QAM	12	0	18.45	18.55	18.35	
5	256QAM	12	7	18.47	18.60	18.53	
5	256QAM	12	13	18.44	18.71	18.62	19
5	256QAM	25	0	18.66	18.50	18.38	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.00	22.94	23.03	24
3	QPSK	1	8	23.03	22.99	22.96	
3	QPSK	1	14	22.84	22.86	23.02	
3	QPSK	8	0	22.50	22.52	22.65	
3	QPSK	8	4	22.43	22.60	22.50	23
3	QPSK	8	7	22.44	22.48	22.43	
3	QPSK	15	0	22.51	22.52	22.63	
3	16QAM	1	0	22.33	22.66	22.55	
3	16QAM	1	8	22.66	22.52	22.43	23.5
3	16QAM	1	14	22.57	22.40	22.53	
3	16QAM	8	0	21.73	21.72	21.62	
3	16QAM	8	4	21.63	21.86	21.61	
3	16QAM	8	7	21.84	21.83	21.63	22.5
3	16QAM	15	0	21.61	21.81	21.82	
3	64QAM	1	0	21.32	21.03	21.37	
3	64QAM	1	8	21.31	21.20	21.28	
3	64QAM	1	14	21.15	20.94	21.25	22.5
3	64QAM	8	0	20.74	20.84	20.94	
3	64QAM	8	4	20.65	20.55	20.81	
3	64QAM	8	7	20.55	20.84	20.83	
3	64QAM	15	0	20.67	20.58	20.98	21.5
3	256QAM	1	0	18.74	18.67	18.57	
3	256QAM	1	8	18.37	18.40	18.49	
3	256QAM	1	14	18.71	18.26	18.39	
3	256QAM	8	0	18.56	18.73	18.50	19
3	256QAM	8	4	18.44	18.75	18.62	
3	256QAM	8	7	18.61	18.55	18.50	
3	256QAM	15	0	18.74	18.36	18.65	
Channel				19967	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.07	22.93	23.08	24
1.4	QPSK	1	3	23.07	22.98	22.92	
1.4	QPSK	1	5	22.86	22.86	22.97	
1.4	QPSK	3	0	22.50	22.51	22.60	
1.4	QPSK	3	1	22.55	22.51	22.57	23
1.4	QPSK	3	3	22.42	22.43	22.38	
1.4	QPSK	6	0	22.59	22.51	22.62	
1.4	16QAM	1	0	22.26	22.54	22.62	
1.4	16QAM	1	3	22.47	22.30	22.45	23.5
1.4	16QAM	1	5	22.45	22.61	22.64	
1.4	16QAM	3	0	22.40	22.28	22.34	
1.4	16QAM	3	1	22.20	22.31	22.30	
1.4	16QAM	3	3	22.33	22.09	22.41	22.5
1.4	16QAM	6	0	21.45	21.79	21.82	
1.4	64QAM	1	0	21.49	21.24	21.45	
1.4	64QAM	1	3	21.31	21.25	21.27	
1.4	64QAM	1	5	21.30	21.24	21.26	22.5
1.4	64QAM	3	0	21.40	21.23	21.51	
1.4	64QAM	3	1	21.22	21.13	21.24	
1.4	64QAM	3	3	21.10	21.22	21.28	
1.4	64QAM	6	0	20.62	20.62	20.90	21.5
1.4	256QAM	1	0	18.53	18.67	18.70	
1.4	256QAM	1	3	18.32	18.40	18.69	
1.4	256QAM	1	5	18.55	18.55	18.62	
1.4	256QAM	3	0	18.31	18.66	18.35	19
1.4	256QAM	3	1	18.56	18.67	18.78	
1.4	256QAM	3	3	18.42	18.62	18.39	
1.4	256QAM	6	0	18.76	18.41	18.56	

Band 5 (Celluar Band) (dBm) 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	23.48	23.26	23.45	24	
10	QPSK	1	25	23.24	23.23	23.12		
10	QPSK	1	49	23.28	23.14	23.13		
10	QPSK	25	0	22.68	22.67	22.52		
10	QPSK	25	12	22.46	22.53	22.56	23	
10	QPSK	25	25	22.64	22.58	22.57		
10	QPSK	50	0	22.57	22.54	22.45		
10	16QAM	1	0	22.31	22.32	22.30		
10	16QAM	1	25	22.18	22.30	22.28	23	
10	16QAM	1	49	22.29	22.37	22.33		
10	16QAM	25	0	21.50	21.59	21.57		
10	16QAM	25	12	21.51	21.52	21.60		
10	16QAM	25	25	21.52	21.51	21.56	22	
10	16QAM	50	0	21.42	21.53	21.52		
10	64QAM	1	0	21.43	21.62	21.48		
10	64QAM	1	25	21.30	21.48	21.41		
10	64QAM	1	49	21.22	21.41	21.53	21	
10	64QAM	25	0	20.37	20.62	20.65		
10	64QAM	25	12	20.45	20.35	20.52		
10	64QAM	25	25	20.41	20.48	20.44		
10	64QAM	50	0	20.43	20.43	20.46	19	
10	256QAM	1	0	18.13	18.35	18.27		
10	256QAM	1	25	18.00	18.07	18.27		
10	256QAM	1	49	17.98	18.27	18.19		
10	256QAM	25	0	18.13	18.32	18.21	19	
10	256QAM	25	12	18.00	18.31	18.23		
10	256QAM	25	25	17.93	18.08	18.03		
10	256QAM	50	0	17.98	18.25	18.21		
Channel				20425	20525	20625	Tune-up limit (dBm)	
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.40	23.18	23.35	24	
5	QPSK	1	12	23.16	23.11	22.98		
5	QPSK	1	24	23.20	23.03	23.04		
5	QPSK	12	0	22.67	22.60	22.49		
5	QPSK	12	7	22.35	22.40	22.54	23	
5	QPSK	12	13	22.55	22.55	22.50		
5	QPSK	25	0	22.45	22.50	22.40		
5	16QAM	1	0	22.44	22.34	22.32		
5	16QAM	1	12	22.07	22.15	22.19	23	
5	16QAM	1	24	22.41	22.36	22.22		
5	16QAM	12	0	21.56	21.64	21.72		
5	16QAM	12	7	21.38	21.61	21.47		
5	16QAM	12	13	21.43	21.61	21.65	22	
5	16QAM	25	0	21.51	21.50	21.43		
5	64QAM	1	0	21.33	21.69	21.42		
5	64QAM	1	12	21.21	21.46	21.47		
5	64QAM	1	24	21.25	21.44	21.49	21	
5	64QAM	12	0	20.37	20.55	20.52		
5	64QAM	12	7	20.30	20.46	20.59		
5	64QAM	12	13	20.43	20.41	20.35		
5	64QAM	25	0	20.39	20.49	20.54	19	
5	256QAM	1	0	18.15	18.16	18.39		
5	256QAM	1	12	18.02	18.00	18.27		
5	256QAM	1	24	17.99	18.16	18.10		
5	256QAM	12	0	18.08	18.21	18.08	19	
5	256QAM	12	7	17.98	18.11	18.29		
5	256QAM	12	13	17.89	18.06	18.03		
5	256QAM	25	0	17.99	18.34	18.26		
Channel				20415	20525	20635	Tune-up limit (dBm)	
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.41	23.13	23.36	24	
3	QPSK	1	8	23.11	23.14	22.99		
3	QPSK	1	14	23.14	23.12	23.12		
3	QPSK	8	0	22.55	22.53	22.38		
3	QPSK	8	4	22.42	22.44	22.50	23	
3	QPSK	8	7	22.55	22.50	22.49		
3	QPSK	15	0	22.54	22.43	22.39		
3	16QAM	1	0	22.34	22.27	22.41		
3	16QAM	1	8	22.09	22.21	22.22	23	
3	16QAM	1	14	22.18	22.30	22.30		
3	16QAM	8	0	21.57	21.39	21.58		
3	16QAM	8	4	21.61	21.37	21.74		
3	16QAM	8	7	21.57	21.58	21.71	22	
3	16QAM	15	0	21.41	21.49	21.50		
3	64QAM	1	0	21.28	21.33	21.52		
3	64QAM	1	8	21.17	21.42	21.34		
3	64QAM	1	14	21.35	21.55	21.66	21	
3	64QAM	8	0	20.30	20.65	20.47		
3	64QAM	8	4	20.34	20.39	20.40		
3	64QAM	9	7	20.47	20.38	20.33		
3	64QAM	15	0	20.27	20.28	20.54	19	
3	256QAM	1	0	18.25	18.32	18.11		
3	256QAM	1	8	18.11	18.21	18.08		
3	256QAM	1	14	17.92	18.26	18.12		
3	256QAM	8	0	18.02	18.15	18.36	19	
3	256QAM	8	4	18.12	18.17	18.17		
3	256QAM	8	7	18.01	17.93	18.05		
3	256QAM	15	0	17.97	18.37	18.09		
Channel				20407	20525	20643	Tune-up limit (dBm)	
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.39	23.24	23.40	24	
1.4	QPSK	1	3	23.11	23.18	23.07		
1.4	QPSK	1	5	23.17	23.00	23.10		
1.4	QPSK	3	0	23.13	23.10	22.92		
1.4	QPSK	3	1	22.93	22.93	23.02	23	
1.4	QPSK	3	3	23.10	23.00	23.06		
1.4	QPSK	6	0	22.45	22.43	22.32		
1.4	16QAM	1	0	22.14	22.25	22.35		

Band 12 (700MHz Low Band) (dBm) 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		
10	QPSK	1	0	23.52	23.61	23.56	24.5	
10	QPSK	1	25	23.49	23.50	23.59		
10	QPSK	1	49	23.51	23.59	23.39		
10	QPSK	25	0	22.43	22.60	22.54		
10	QPSK	25	12	22.42	22.48	22.47	23.5	
10	QPSK	25	25	22.37	22.44	22.46		
10	QPSK	50	0	22.51	22.63	22.56		
10	16QAM	1	0	22.55	22.69	22.58		
10	16QAM	1	25	22.63	22.60	22.54	23.5	
10	16QAM	1	49	22.65	22.59	22.56		
10	16QAM	25	0	21.43	21.65	21.61		
10	16QAM	25	12	21.41	21.54	21.32		
10	16QAM	25	25	21.25	21.51	21.48	22.5	
10	16QAM	50	0	21.41	21.66	21.47		
10	64QAM	1	0	21.72	21.70	21.55		
10	64QAM	1	25	21.27	21.42	21.33		
10	64QAM	1	49	21.35	21.40	21.47	21.5	
10	64QAM	25	0	20.67	20.65	20.61		
10	64QAM	25	12	20.35	20.46	20.52		
10	64QAM	25	25	20.49	20.51	20.48		
10	64QAM	50	0	20.41	20.55	20.49	19.5	
10	256QAM	1	0	18.12	18.11	18.17		
10	256QAM	1	25	18.06	18.06	17.98		
10	256QAM	1	49	17.88	17.86	17.98		
10	256QAM	25	0	18.08	18.17	18.15		
10	256QAM	25	12	18.12	18.28	18.29	19.5	
10	256QAM	25	25	17.91	18.07	17.86		
10	256QAM	50	0	18.02	18.08	17.87		
Channel				23035	23095	23155	Tune-up limit (dBm)	
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.43	23.49	23.43	24.5	
5	QPSK	1	12	23.48	23.37	23.55		
5	QPSK	1	24	23.44	23.47	23.28		
5	QPSK	12	0	22.32	22.55	22.43		
5	QPSK	12	7	22.36	22.46	22.41	23.5	
5	QPSK	12	13	22.31	22.32	22.37		
5	QPSK	25	0	22.47	22.54	22.47		
5	16QAM	1	0	22.54	22.81	22.69		
5	16QAM	1	12	22.44	22.62	22.61	23.5	
5	16QAM	1	24	22.74	22.65	22.63		
5	16QAM	12	0	21.40	21.63	21.50		
5	16QAM	12	7	21.35	21.43	21.45		
5	16QAM	12	13	21.36	21.58	21.32	22.5	
5	16QAM	25	0	21.21	21.69	21.32		
5	64QAM	1	0	21.63	21.66	21.52		



1.4	16QAM	1	3	22.25	22.13	22.37	23
1.4	16QAM	1	5	22.18	22.35	22.17	
1.4	16QAM	3	0	22.09	22.03	22.04	
1.4	16QAM	3	1	22.07	21.87	21.90	
1.4	16QAM	3	3	22.14	22.05	22.00	22
1.4	16QAM	6	0	21.22	21.68	21.58	
1.4	64QAM	1	0	21.28	21.58	21.43	
1.4	64QAM	1	3	21.31	21.32	21.39	
1.4	64QAM	1	5	21.09	21.21	21.33	22
1.4	64QAM	3	0	20.87	20.93	21.06	
1.4	64QAM	3	1	21.05	20.91	20.94	
1.4	64QAM	3	3	20.94	20.85	21.03	
1.4	64QAM	6	0	20.27	20.49	20.46	21
1.4	256QAM	1	0	18.06	18.45	18.28	19
1.4	256QAM	1	3	18.00	17.96	18.40	
1.4	256QAM	1	5	18.12	18.08	18.06	
1.4	256QAM	3	0	18.24	18.25	18.35	
1.4	256QAM	3	1	18.15	18.31	18.36	
1.4	256QAM	3	3	18.07	17.90	17.93	
1.4	256QAM	6	0	17.86	18.19	18.25	19

1.4	16QAM	1	3	22.71	22.73	22.44	23.5
1.4	16QAM	1	5	22.69	22.50	22.40	
1.4	16QAM	3	0	22.06	22.00	21.97	
1.4	16QAM	3	1	21.92	21.92	21.62	
1.4	16QAM	3	3	21.65	21.95	21.80	22.5
1.4	16QAM	6	0	21.42	21.66	21.47	
1.4	64QAM	1	0	21.43	21.67	21.46	
1.4	64QAM	1	3	21.23	21.52	21.47	
1.4	64QAM	1	5	21.26	21.27	21.53	22.5
1.4	64QAM	3	0	21.11	20.95	21.01	
1.4	64QAM	3	1	20.66	21.04	21.04	
1.4	64QAM	3	3	20.82	20.88	21.11	
1.4	64QAM	6	0	20.21	20.47	20.62	21.5
1.4	256QAM	1	0	18.22	18.02	18.07	19.5
1.4	256QAM	1	3	18.21	18.02	18.03	
1.4	256QAM	1	5	17.99	17.94	17.96	
1.4	256QAM	3	0	18.21	18.07	18.02	
1.4	256QAM	3	1	18.23	18.26	18.12	
1.4	256QAM	3	3	18.04	17.91	18.00	
1.4	256QAM	6	0	18.03	17.91	17.75	19.5

Band 13(700MHz Band) (dBm) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			Tune-up limit (dBm)
Frequency (MHz)				782			
10	QPSK	1	0		23.70		24.5
10	QPSK	1	25		23.62		
10	QPSK	1	49		23.51		
10	QPSK	25	0		22.71		23.5
10	QPSK	25	12		22.61		
10	QPSK	25	25		22.54		
10	QPSK	50	0		22.80		23.5
10	16QAM	1	0		22.72		
10	16QAM	1	25		22.56		
10	16QAM	1	49		22.70		23.5
10	16QAM	25	0		21.73		
10	16QAM	25	12		21.70		
10	16QAM	25	25		21.63		22.5
10	16QAM	50	0		21.75		
10	64QAM	1	0		21.12		
10	64QAM	1	25		21.06		22.5
10	64QAM	1	49		20.98		
10	64QAM	25	0		20.64		
10	64QAM	25	12		20.54		21.5
10	64QAM	25	25		20.71		
10	64QAM	50	0		20.73		
10	256QAM	1	0		18.61		19.5
10	256QAM	1	25		18.56		
10	256QAM	1	49		18.47		
10	256QAM	25	0		18.43		19.5
10	256QAM	25	12		18.41		
10	256QAM	25	25		18.49		
10	256QAM	50	0		18.41		Tune-up limit (dBm)
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	Tune-up limit (dBm)
5	QPSK	1	0	23.57	23.59	23.66	24.5
5	QPSK	1	12	23.53	23.52	23.46	
5	QPSK	1	24	23.34	23.42	23.44	
5	QPSK	12	0	22.61	22.57	22.64	23.5
5	QPSK	12	7	22.50	22.48	22.51	
5	QPSK	12	13	22.42	22.52	22.37	
5	QPSK	25	0	22.65	22.73	22.71	23.5
5	16QAM	1	0	22.49	22.77	22.83	
5	16QAM	1	12	22.58	22.67	22.62	
5	16QAM	1	24	22.64	22.77	22.73	22.5
5	16QAM	12	0	21.76	21.58	21.55	
5	16QAM	12	7	21.80	21.65	21.67	
5	16QAM	12	13	21.40	21.60	21.66	22.5
5	16QAM	25	0	21.82	21.59	21.62	
5	64QAM	1	0	21.10	20.97	21.19	
5	64QAM	1	12	21.11	20.94	20.88	22.5
5	64QAM	1	24	20.78	20.80	20.97	
5	64QAM	12	0	20.60	20.60	20.51	
5	64QAM	12	7	20.64	20.39	20.56	21.5
5	64QAM	12	13	20.57	20.66	20.57	
5	64QAM	25	0	20.55	20.75	20.84	
5	256QAM	1	0	18.42	18.68	18.63	19.5
5	256QAM	1	12	18.48	18.66	18.40	
5	256QAM	1	24	18.41	18.29	18.26	
5	256QAM	12	0	18.37	18.27	18.49	19.5
5	256QAM	12	7	18.47	18.49	18.31	
5	256QAM	12	13	18.35	18.49	18.36	
5	256QAM	25	0	18.42	18.50	18.33	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23760	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.40	23.56	23.48	24.5
10	QPSK	1	25	23.32	23.25	23.40	
10	QPSK	1	49	23.37	23.27	23.45	
10	QPSK	25	0	22.55	22.61	22.53	23.5
10	QPSK	25	12	22.43	22.44	22.32	
10	QPSK	25	25	22.32	22.45	22.40	
10	QPSK	50	0	22.53	22.57	22.53	23.5
10	16QAM	1	0	22.70	22.70	22.49	
10	16QAM	1	25	22.60	22.62	22.55	
10	16QAM	1	49	22.52	22.58	22.64	22.5
10	16QAM	25	0	21.41	21.55	21.36	
10	16QAM	25	12	21.57	21.62	21.67	
10	16QAM	25	25	21.43	21.61	21.60	22.5
10	16QAM	50	0	21.57	21.66	21.58	
10	64QAM	1	0	21.68	21.69	21.40	
10	64QAM	1	25	21.43	21.41	21.42	22.5
10	64QAM	1	49	21.37	21.56	21.74	
10	64QAM	25	0	20.68	20.57	20.43	
10	64QAM	25	12	20.40	20.35	20.45	21.5
10	64QAM	25	25	20.23	20.33	20.35	
10	64QAM	50	0	20.55	20.55	20.48	
10	256QAM	1	0	18.97	18.77	19.12	19.5
10	256QAM	1	25	18.80	18.78	18.89	
10	256QAM	1	49	18.70	18.73	18.73	
10	256QAM	25	0	18.73	18.62	18.83	19.5
10	256QAM	25	12	18.77	18.67	18.76	
10	256QAM	25	25	18.74	18.65	18.81	
10	256QAM	50	0	18.67	18.58	18.65	Tune-up limit (dBm)
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)
5	QPSK	1	0	23.26	23.43	23.43	
5	QPSK	1	12	23.21	23.22	23.28	24.5
5	QPSK	1	24	23.26	23.20	23.41	
5	QPSK	12	0	22.41	22.59	22.46	
5	QPSK	12	7	22.32	22.43	22.29	23.5
5	QPSK	12	13	22.27	22.44	22.35	
5	QPSK	25	0	22.45	22.54	22.42	
5	16QAM	1	0	22.61	22.73	22.50	23.5
5	16QAM	1	12	22.43	22.59	22.60	
5	16QAM	1	24	22.63	22.51	22.67	
5	16QAM	12	0	21.31	21.56	21.27	22.5
5	16QAM	12	7	21.57	21.55	21.61	
5	16QAM	12	13	21.52	21.53	21.72	
5	16QAM	25	0	21.70	21.77	21.43	22.5
5	64QAM	1	0	21.65	21.54	21.21	
5	64QAM	1	12	21.48	21.42	21.48	
5	64QAM	1	24	21.17	21.51	21.67	21.5
5	64QAM	12	0	20.39	20.44	20.36	
5	64QAM	12	7	20.22	20.19	20.28	
5	64QAM	12	13	20.23	20.28	20.26	19.5
5	64QAM	25	0	20.53	20.68	20.36	
5	256QAM	1	0	19.03	18.73	19.02	
5	256QAM	1	12	18.77	18.64	18.96	19.5
5	256QAM	1	24	18.82	18.61	18.75	
5	256QAM	12	0	18.87	18.47	18.93	
5	256QAM	12	7	18.63	18.51	18.89	19.5
5	256QAM	12	13	18.88	18.69	18.74	
5	256QAM	25	0	18.72	18.67	18.45	

Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	23.12	23.04	22.78	24
20	QPSK	1	49	23.05	23.06	22.97	
20	QPSK	1	99	22.90	22.91	22.67	
20	QPSK	50	0	22.03	22.02	21.80	
20	QPSK	50	24	21.94	22.01	21.98	23
20	QPSK	50	50	21.98	22.00	21.99	
20	QPSK	100	0	21.90	21.86	21.75	
20	16QAM	1	0	22.05	21.92	22.09	
20	16QAM	1	49	22.17	22.09	22.16	23
20	16QAM	1	99	22.00	22.00	22.21	
20	16QAM	50	0	21.33	21.09	20.99	
20	16QAM	50	24	20.90	20.85	21.14	
20	16QAM	50	50	20.91	20.86	20.88	22
20	16QAM	100	0	21.08	20.92	21.00	
20	64QAM	1	0	20.77	21.16	20.83	
20	64QAM	1	49	20.74	20.75	20.86	
20	64QAM	1	99	20.84	20.86	20.75	21
20	64QAM	50	0	19.87	20.03	19.86	
20	64QAM	50	24	19.76	19.85	19.92	
20	64QAM	50	50	19.88	19.96	19.87	
20	64QAM	100	0	20.09	19.94	19.89	19
20	256QAM	1	0	17.59	17.73	17.54	
20	256QAM	1	49	17.43	17.49	17.62	
20	256QAM	1	99	17.42	17.59	17.31	
20	256QAM	50	0	17.83	17.68	17.66	19
20	256QAM	50	24	17.48	17.64	17.51	
20	256QAM	50	50	17.42	17.60	17.58	
20	256QAM	100	0	17.36	17.53	17.48	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	23.09	22.91	22.75	24
15	QPSK	1	37	23.02	23.01	22.90	
15	QPSK	1	74	22.81	22.90	22.61	
15	QPSK	36	0	21.94	21.93	21.73	
15	QPSK	36	20	21.91	21.94	21.87	23
15	QPSK	36	39	21.85	21.84	21.90	
15	QPSK	75	0	21.76	21.80	21.65	
15	16QAM	1	0	21.95	21.73	22.00	
15	16QAM	1	37	22.16	22.08	22.14	23
15	16QAM	1	74	21.82	21.95	22.17	
15	16QAM	36	0	21.13	21.02	21.02	
15	16QAM	36	20	20.94	20.78	21.05	
15	16QAM	36	39	20.71	20.89	20.92	22
15	16QAM	75	0	21.00	21.07	20.95	
15	64QAM	1	0	20.68	20.96	20.88	
15	64QAM	1	37	20.79	20.55	20.99	
15	64QAM	1	74	20.76	20.86	20.74	21
15	64QAM	36	0	19.80	19.96	19.97	
15	64QAM	36	20	19.71	19.76	20.03	
15	64QAM	36	39	19.92	19.92	20.02	
15	64QAM	75	0	20.17	19.93	19.95	19
15	256QAM	1	0	17.67	17.65	17.53	
15	256QAM	1	37	17.45	17.58	17.49	
15	256QAM	1	74	17.51	17.48	17.30	
15	256QAM	36	0	17.62	17.60	17.62	19
15	256QAM	36	20	17.28	17.70	17.43	
15	256QAM	36	39	17.37	17.47	17.60	
15	256QAM	75	0	17.46	17.60	17.41	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	22.99	23.00	22.72	24
10	QPSK	1	25	23.02	22.93	22.87	
10	QPSK	1	49	22.80	22.77	22.65	
10	QPSK	25	0	21.97	21.98	21.67	
10	QPSK	25	12	21.81	21.88	21.97	23
10	QPSK	25	25	21.91	21.98	21.92	
10	QPSK	50	0	21.78	21.80	21.68	
10	16QAM	1	0	21.94	21.80	21.93	
10	16QAM	1	25	21.97	22.20	22.09	23
10	16QAM	1	49	21.88	22.03	22.22	
10	16QAM	25	0	21.08	21.19	20.93	
10	16QAM	25	12	20.96	20.83	21.27	
10	16QAM	25	25	20.91	20.94	20.95	22
10	16QAM	50	0	21.20	21.02	21.14	
10	64QAM	1	0	20.67	20.86	20.82	
10	64QAM	1	25	20.55	20.81	20.88	
10	64QAM	1	49	20.66	20.76	20.72	21
10	64QAM	25	0	19.77	19.83	19.83	
10	64QAM	25	12	19.84	19.85	19.72	
10	64QAM	25	25	19.69	19.80	19.84	
10	64QAM	50	0	19.94	19.78	20.00	19
10	256QAM	1	0	17.72	17.67	17.69	
10	256QAM	1	25	17.53	17.61	17.50	
10	256QAM	1	49	17.34	17.48	17.44	
10	256QAM	25	0	17.66	17.52	17.75	19
10	256QAM	25	12	17.29	17.57	17.51	
10	256QAM	25	25	17.48	17.45	17.60	
10	256QAM	50	0	17.23	17.41	17.41	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	23.08	22.96	22.76	24
5	QPSK	1	12	22.94	23.05	22.84	
5	QPSK	1	24	22.86	22.85	22.62	
5	QPSK	12	0	21.92	21.97	21.68	
5	QPSK	12	7	21.84	21.94	21.92	23
5	QPSK	12	13	21.85	21.94	21.94	
5	QPSK	25	0	21.79	21.81	21.70	
5	16QAM	1	0	21.85	21.82	21.99	

Band 26 for FCC (dBm) (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	24.5
15	QPSK	1	0	23.68	23.59	23.57	
15	QPSK	1	37	23.51	23.58	23.49	
15	QPSK	1	74	23.46	23.41	23.53	
15	QPSK	36	0	22.50	22.45	22.41	23.5
15	QPSK	36	20	22.49	22.32	22.40	
15	QPSK	36	39	22.37	22.48	22.32	
15	QPSK	75	0	22.52	22.46	22.42	
15	16QAM	1	0	22.48	22.64	22.46	23.5
15	16QAM	1	37	22.45	22.41	22.53	
15	16QAM	1	74	22.53	22.38	22.65	
15	16QAM	36	0	21.70	21.62	21.61	
15	16QAM	36	20	21.63	21.68	21.63	22.5
15	16QAM	36	39	21.55	21.46	21.57	
15	16QAM	75	0	21.69	21.70	21.60	
15	64QAM	1	0	21.68	21.69	21.70	
15	64QAM	1	37	21.49	21.56	21.59	22.5
15	64QAM	1	74	21.66	21.46	21.51	
15	64QAM	36	0	20.60	20.44	20.63	
15	64QAM	36	20	20.56	20.49	20.47	
15	64QAM	36	39	20.47	20.49	20.42	21.5
15	64QAM	75	0	20.73	20.43	20.71	
15	256QAM	1	0	18.62	18.56	18.41	
15	256QAM	1	37	18.46	18.52	18.44	
15	256QAM	1	74	18.48	18.19	18.37	19.5
15	256QAM	36	0	18.54	18.48	18.62	
15	256QAM	36	20	18.61	18.21	18.45	
15	256QAM	36	39	18.23	18.50	18.16	
15	256QAM	75	0	18.38	18.39	18.42	19.5
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	Tune-up limit (dBm)
10	QPSK	1	0	23.56	23.45	23.50	24.5
10	QPSK	1	25	23.39	23.45	23.35	
10	QPSK	1	49	23.39	23.31	23.48	
10	QPSK	25	0	22.46	22.39	22.28	
10	QPSK	25	12	22.45	22.23	22.38	23.5
10	QPSK	25	25	22.24	22.36	22.26	
10	QPSK	50	0	22.39	22.42	22.37	
10	16QAM	1	0	22.38	22.55	22.50	
10	16QAM	1	25	22.44	22.29	22.43	23.5
10	16QAM	1	49	22.51	22.43	22.68	
10	16QAM	25	0	21.69	21.52	21.70	
10	16QAM	25	12	21.45	21.63	21.66	
10	16QAM	25	25	21.64	21.52	21.65	22.5
10	16QAM	50	0	21.70	21.57	21.46	
10	64QAM	1	0	21.67	21.59	21.56	
10	64QAM	1	25	21.50	21.43	21.56	
10	64QAM	1	49	21.59	21.38	21.38	22.5
10	64QAM	25	0	20.67	20.54	20.60	
10	64QAM	25	12	20.38	20.51	20.29	
10	64QAM	25	25	20.61	20.50	20.48	
10	64QAM	50	0	20.55	20.28	20.64	21.5
10	256QAM	1	0	18.62	18.63	18.56	
10	256QAM	1	25	18.51	18.39	18.34	
10	256QAM	1	49	18.28	18.23	18.42	
10	256QAM	25	0	18.41	18.29	18.53	19.5
10	256QAM	25	12	18.54	18.21	18.32	
10	256QAM	25	25	18.18	18.40	18.08	
10	256QAM	50	0	18.48	18.37	18.37	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.54	23.48	23.50	24.5
5	QPSK	1	12	23.44	23.46	23.39	
5	QPSK	1	24	23.45	23.29	23.41	
5	QPSK	12	0	22.45	22.40	22.27	
5	QPSK	12	7	22.39	22.31	22.36	23.5
5	QPSK	12	13	22.36	22.41	22.19	
5	QPSK	25	0	22.46	22.35	22.35	
5	16QAM	1	0	22.33	22.48	22.41	
5	16QAM	1	12	22.37	22.49	22.61	23.5
5	16QAM	1	24	22.43	22.50	22.78	
5	16QAM	12	0	21.76	21.57	21.51	
5	16QAM	12	7	21.44	21.63	21.70	
5	16QAM	12	13	21.50	21.54	21.45	22.5
5	16QAM	25	0	21.78	21.82	21.62	
5	16QAM	1	0	21.75	21.60	21.76	
5	64QAM	1	12	21.52	21.39	21.74	
5	64QAM	1	24	21.68	21.55	21.37	22.5
5	64QAM	12	0	20.44	20.56	20.54	
5	64QAM	12	7	20.39	20.53	20.47	
5	64QAM	12	13	20.56	20.61	20.49	
5	64QAM	25	0	20.59	20.50	20.80	21.5
5	256QAM	1	0	18.66	18.49	18.32	
5	256QAM	1	12	18.48	18.43	18.40	
5	256QAM	1	24	18.47	18.16	18.50	
5	256QAM	12	0	18.53	18.36	18.63	19.5
5	256QAM	12	7	18.49	18.27	18.46	
5	256QAM	12	13	18.19	18.30	18.28	
5	256QAM	25	0	18.40	18.20	18.23	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.61	23.52	23.49	24.5
3	QPSK	1	8	23.48	23.49	23.37	
3	QPSK	1	14	23.35	23.35	23.50	
3	QPSK	8	0	22.36	22.42	22.36	
3	QPSK	8	4	22.46	22.25	22.27	23.5
3	QPSK	8	7	22.33	22.46	22.19	
3	QPSK	15	0	22.42	22.40	22.34	
3	16QAM	1	0	22.29	22.56	22.51	

5	16QAM	1	12	22.22	21.96	22.11	23
5	16QAM	1	24	22.10	22.09	22.25	22
5	16QAM	12	0	21.13	21.06	21.02	
5	16QAM	12	7	21.03	20.95	21.19	
5	16QAM	12	13	20.92	20.72	20.89	22
5	16QAM	25	0	21.17	20.84	21.11	
5	64QAM	1	0	20.87	21.01	20.77	
5	64QAM	1	12	20.60	20.71	20.74	21
5	64QAM	1	24	20.71	20.75	20.80	
5	64QAM	12	0	19.99	20.09	19.90	
5	64QAM	12	7	19.77	19.69	19.84	19
5	64QAM	12	13	19.72	19.95	19.96	
5	64QAM	25	0	20.23	19.96	19.84	
5	256QAM	1	0	17.53	17.79	17.63	19
5	256QAM	1	12	17.37	17.63	17.50	
5	256QAM	1	24	17.32	17.68	17.41	
5	256QAM	12	0	17.56	17.63	17.50	19
5	256QAM	12	7	17.54	17.62	17.62	
5	256QAM	12	13	17.24	17.67	17.52	
5	256QAM	25	0	17.20	17.39	17.42	
Channel				26055	26365	26675	Tune-up limit
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	23.11	23.00	22.81	24
3	QPSK	1	8	23.04	22.94	22.91	
3	QPSK	1	14	22.81	22.88	22.64	
3	QPSK	8	0	21.97	21.99	21.74	23
3	QPSK	8	4	21.81	21.90	21.95	
3	QPSK	8	7	21.93	21.96	21.87	
3	QPSK	15	0	21.82	21.79	21.68	23
3	16QAM	1	0	22.03	22.04	21.98	
3	16QAM	1	8	22.29	22.12	22.17	
3	16QAM	1	14	21.87	21.80	22.02	22
3	16QAM	8	0	21.13	20.92	20.81	
3	16QAM	8	4	20.78	20.91	21.07	
3	16QAM	8	7	20.79	20.94	20.97	22
3	16QAM	15	0	20.88	20.91	20.81	
3	64QAM	1	0	20.75	20.99	20.66	
3	64QAM	1	8	20.63	20.56	20.71	21
3	64QAM	1	14	20.87	20.91	20.84	
3	64QAM	8	0	19.80	19.91	19.97	
3	64QAM	8	4	19.68	19.88	19.98	19
3	64QAM	8	7	20.03	19.86	19.99	
3	64QAM	15	0	20.02	19.89	20.04	
3	256QAM	1	0	17.69	17.56	17.62	19
3	256QAM	1	8	17.55	17.54	17.63	
3	256QAM	1	14	17.37	17.59	17.29	
3	256QAM	8	0	17.68	17.77	17.54	19
3	256QAM	8	4	17.60	17.49	17.57	
3	256QAM	8	7	17.38	17.63	17.41	
3	256QAM	15	0	17.50	17.44	17.50	
Channel				26047	26365	26683	Tune-up limit
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	23.07	23.02	22.67	24
1.4	QPSK	1	3	22.97	22.92	22.85	
1.4	QPSK	1	5	22.79	22.87	22.63	
1.4	QPSK	3	0	22.45	22.46	22.28	23
1.4	QPSK	3	1	22.39	22.45	22.42	
1.4	QPSK	3	3	22.45	22.49	22.36	
1.4	QPSK	6	0	21.84	21.75	21.73	22
1.4	16QAM	1	0	22.07	21.96	22.12	
1.4	16QAM	1	3	22.09	22.03	22.08	
1.4	16QAM	1	5	22.13	21.81	22.20	21
1.4	16QAM	3	0	21.65	21.57	21.38	
1.4	16QAM	3	1	21.22	21.27	21.62	
1.4	16QAM	3	3	21.44	21.50	21.23	22
1.4	16QAM	6	0	21.03	20.89	20.94	
1.4	64QAM	1	0	20.59	21.00	20.95	
1.4	64QAM	1	3	20.56	20.80	20.89	21.5
1.4	64QAM	1	5	20.69	20.85	20.64	
1.4	64QAM	3	0	20.33	20.49	20.49	
1.4	64QAM	3	1	20.16	20.24	20.31	19
1.4	64QAM	3	3	20.30	20.48	20.39	
1.4	64QAM	6	0	19.97	19.84	20.02	
1.4	256QAM	1	0	17.41	17.65	17.61	19
1.4	256QAM	1	3	17.25	17.30	17.47	
1.4	256QAM	1	5	17.33	17.59	17.36	
1.4	256QAM	3	0	17.75	17.57	17.69	19
1.4	256QAM	3	1	17.56	17.75	17.39	
1.4	256QAM	3	3	17.35	17.42	17.61	
1.4	256QAM	6	0	17.48	17.37	17.49	19

3	16QAM	1	8	22.45	22.23	22.37	23.5
3	16QAM	1	14	22.47	22.18	22.57	22.5
3	16QAM	8	0	21.70	21.58	21.47	
3	16QAM	8	4	21.77	21.66	21.60	
3	16QAM	8	7	21.41	21.34	21.48	22.5
3	16QAM	15	0	21.63	21.52	21.70	
3	64QAM	1	0	21.72	21.53	21.83	
3	64QAM	1	8	21.61	21.47	21.62	21.5
3	64QAM	1	14	21.59	21.34	21.51	
3	64QAM	8	0	20.41	20.47	20.60	
3	64QAM	8	4	20.47	20.42	20.35	19.5
3	64QAM	8	7	20.48	20.52	20.42	
3	64QAM	15	0	20.55	20.39	20.75	
3	256QAM	1	0	18.63	18.44	18.50	19.5
3	256QAM	1	8	18.39	18.67	18.25	
3	256QAM	1	14	18.44	18.34	18.22	
3	256QAM	8	0	18.39	18.34	18.68	19.5
3	256QAM	8	4	18.48	18.26	18.42	
3	256QAM	8	7	18.29	18.30	18.26	
3	256QAM	15	0	18.46	18.21	18.26	
Channel				26697	26865	27033	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.60	23.58	23.53	24.5
1.4	QPSK	1	3	23.50	23.47	23.37	
1.4	QPSK	1	5	23.38	23.33	23.49	
1.4	QPSK	3	0	22.94	22.94	22.80	23.5
1.4	QPSK	3	1	22.87	22.81	22.85	
1.4	QPSK	3	3	22.85	22.93	22.76	
1.4	QPSK	6	0	22.48	22.42	22.32	23.5
1.4	16QAM	1	0	22.43	22.46	22.29	
1.4	16QAM	1	3	22.29	22.33	22.56	
1.4	16QAM	1	5	22.34	22.52	22.77	22.5
1.4	16QAM	3	0	22.26	22.19	22.14	
1.4	16QAM	3	1	22.06	22.09	22.14	
1.4	16QAM	3	3	21.85	22.07	21.98	22.5
1.4	16QAM	6	0	21.51	21.61	21.48	
1.4	64QAM	1	0	21.50	21.76	21.62	
1.4	64QAM	1	3	21.48	21.39	21.57	21.5
1.4	64QAM	1	5	21.58	21.61	21.32	
1.4	64QAM	3	0	20.95	20.99	21.00	
1.4	64QAM	3	1	21.08	20.98	20.95	19.5
1.4	64QAM	3	3	20.85	20.99	20.99	
1.4	64QAM	6	0	20.78	20.48	20.86	
1.4	256QAM	1	0	18.32	18.50	18.29	19.5
1.4	256QAM	1	3	18.27	18.47	18.54	
1.4	256QAM	1	5	18.53	18.05	18.20	
1.4	256QAM	3	0	18.43	18.39	18.67	19.5
1.4	256QAM	3	1	18.70	18.35	18.25	
1.4	256QAM	3	3	18.23	18.58	18.27	
1.4	256QAM	6	0	18.20	18.20	18.25	19.5

Band 41 (2496~2690MHz) (dBm)										
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)				2503.5	2546.5	2589.5	2632.5	2675.5		
20	QPSK	1	0	23.55	23.52	23.59	23.51	23.50	24.5	
20	QPSK	1	49	23.40	23.38	23.52	23.33	23.50		
20	QPSK	1	99	23.43	23.53	23.56	23.39	23.40		
20	QPSK	50	0	22.62	22.61	22.63	22.56	22.57		
20	QPSK	50	24	22.43	22.41	22.63	22.42	22.48	23.5	
20	QPSK	50	50	22.56	22.36	22.59	22.41	22.55		
20	QPSK	100	0	22.48	22.50	22.56	22.80	22.37		
20	16QAM	1	0	22.54	22.52	22.71	22.72	22.67		
20	16QAM	1	49	22.65	22.51	22.56	22.78	22.53	23.5	
20	16QAM	1	99	22.50	22.49	22.81	22.62	22.69		
20	16QAM	50	0	21.55	21.49	21.69	21.62	21.65		
20	16QAM	50	24	21.40	21.41	21.57	21.64	21.60		
20	16QAM	50	50	21.54	21.38	21.61	21.51	21.52	22.5	
20	16QAM	100	0	21.60	21.43	21.43	21.46	21.45		
20	64QAM	1	0	21.65	21.56	21.73	21.58	21.65		
20	64QAM	1	49	21.59	21.51	21.58	21.40	21.60		
20	64QAM	1	99	21.44	21.57	21.41	21.48	21.51	22.5	
20	64QAM	50	0	20.44	20.51	20.70	20.59	20.58		
20	64QAM	50	24	20.36	20.52	20.56	20.47	20.58		
20	64QAM	50	50	20.57	20.49	20.47	20.47	20.53		
20	64QAM	100	0	20.36	20.33	20.46	20.34	20.35	21.5	
20	256QAM	1	0	18.34	18.46	18.56	18.32	18.39		
20	256QAM	1	49	18.30	18.40	18.46	18.46	18.35		
20	256QAM	1	99	18.38	18.51	18.34	18.29	18.38		
20	256QAM	50	0	17.28	17.35	17.63	17.41	17.38	18.5	
20	256QAM	50	24	17.39	17.31	17.41	17.54	17.46		
20	256QAM	50	50	17.38	17.53	17.50	17.27	17.29		
20	256QAM	100	0	17.37	17.42	17.50	17.38	17.28		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593.5	2637.8	2682.5		
15	QPSK	1	0	23.46	23.43	23.50	23.42	23.41	24.5	
15	QPSK	1	37	23.31	23.29	23.43	23.24	23.41		
15	QPSK	1	74	23.34	23.44	23.47	23.30	23.31		
15	QPSK	36	0	22.53	22.52	22.54	22.47	22.48		
15	QPSK	36	20	22.34	22.32	22.54	22.33	22.39	23.5	
15	QPSK	36	39	22.47	22.27	22.50	22.32	22.46		
15	QPSK	75	0	22.39	22.41	22.47	22.51	22.28		
15	16QAM	1	0	22.45	22.43	22.62	22.63	22.58		
15	16QAM	1	37	22.56	22.42	22.47	22.69	22.44	23.5	
15	16QAM	1	74	22.41	22.40	22.52	22.53	22.60		
15	16QAM	36	0	21.46	21.40	21.60	21.53	21.56		
15	16QAM	36	20	21.31	21.32	21.48	21.55	21.51		
15	16QAM	36	39	21.45	21.29	21.52	21.42	21.43	22.5	
15	16QAM	75	0	21.51	21.34	21.34	21.37	21.36		
15	64QAM	1	0	21.58	21.47	21.64	21.49	21.58		
15	64QAM	1	37	21.50	21.42	21.49	21.31	21.51		
15	64QAM	1	74	21.35	21.48	21.32	21.39	21.42	22.5	
15	64QAM	36	0	20.35	20.42	20.61	20.50	20.49		
15	64QAM	36	20	20.27	20.43	20.47	20.38	20.49		
15	64QAM	36	39	20.48	20.40	20.38	20.38	20.44		
15	64QAM	75	0	20.27	20.24	20.37	20.25	20.26	21.5	
15	256QAM	1	0	18.25	18.37	18.47	18.23	18.30		
15	256QAM	1	37	18.21	18.31	18.37	18.37	18.26		
15	256QAM	1	74	18.29	18.42	18.25	18.20	18.19		
15	256QAM	36	0	17.19	17.26	17.54	17.32	17.29	18.5	
15	256QAM	36	20	17.30	17.22	17.32	17.45	17.37		
15	256QAM	36	39	17.29	17.44	17.41	17.18	17.20		
15	256QAM	75	0	17.28	17.33	17.41	17.29	17.19		
Channel				39760	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.38	23.35	23.42	23.34	23.33	24.5	
10	QPSK	1	25	23.23	23.21	23.35	23.16	23.33		
10	QPSK	1	49	23.39	23.36	23.39	23.22	23.23		
10	QPSK	25	0	22.45	22.44	22.46	22.39	22.40		
10	QPSK	25	12	22.26	22.24	22.46	22.25	22.31	23.5	
10	QPSK	25	25	22.39	22.19	22.42	22.24	22.28		
10	QPSK	50	0	22.31	22.33	22.39	22.43	22.20		
10	16QAM	1	0	22.37	22.35	22.54	22.55	22.50		
10	16QAM	1	25	22.48	22.34	22.39	22.61	22.36	23.5	
10	16QAM	1	49	22.33	22.32	22.44	22.45	22.52		
10	16QAM	25	0	21.38	21.32	21.52	21.45	21.48		
10	16QAM	25	12	21.23	21.24	21.40	21.47	21.43		
10	16QAM	25	25	21.37	21.21	21.44	21.34	21.35	22.5	
10	16QAM	50	0	21.43	21.26	21.26	21.29	21.28		
10	64QAM	1	0	21.48	21.39	21.56	21.41	21.48		
10	64QAM	1	25	21.42	21.34	21.41	21.23	21.43		
10	64QAM	1	49	21.27	21.40	21.24	21.31	21.34	22.5	
10	64QAM	25	0	20.27	20.34	20.53	20.42	20.41		
10	64QAM	25	12	20.19	20.35	20.39	20.30	20.41		
10	64QAM	25	25	20.40	20.32	20.30	20.30	20.36		
10	64QAM	50	0	20.19	20.16	20.29	20.17	20.18	21.5	
10	256QAM	1	0	18.17	18.29	18.39	18.15	18.22		
10	256QAM	1	25	18.13	18.23	18.29	18.28	18.18		
10	256QAM	1	49	18.21	18.34	18.17	18.12	18.11		
10	256QAM	25	0	17.11	17.18	17.46	17.24	17.21	18.5	
10	256QAM	25	12	17.22	17.14	17.24	17.37	17.29		
10	256QAM	25	25	17.21	17.36	17.33	17.10	17.12		
10	256QAM	50	0	17.20	17.25	17.33	17.21	17.11		
Channel				39675	40168	40620	41093	41595	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.31	23.28	23.35	23.27	23.26	24.5	
5	QPSK	1	12	23.16	23.14	23.28	23.09	23.26		
5	QPSK	1	24	23.19	23.29	23.32	23.15	23.16		
5	QPSK	12	0	22.38	22.37	22.39	22.32	22.33		
5	QPSK	12	7	22.19	22.17	22.39	22.18	22.24	23.5	
5	QPSK	12	13	22.32	22.12	22.35	22.17	22.31		
5	QPSK	25	0	22.24	22.26	22.32	22.54	22.13		
5	16QAM	1	0	22.30	22.28	22.47	22.48	22.43		
5	16QAM	1	12	22.41	22.27	22.32	22.34	22.29	23.5	
5	16QAM	1	24	22.26	22.25	22.37	22.38	22.45		
5	16QAM	12	0	21.31	21.25	21.45	21.38	21.41		
5	16QAM	12	7	21.16	21.17	21.33	21.40	21.36		
5	16QAM	12	13	21.30	21.14	21.37	21.27	21.28	22.5	
5	16QAM	25	0	21.36	21.19	21.19	21.22	21.21		
5	64QAM	1	0	21.41	21.32	21.49	21.34	21.41		
5	64QAM	1	12	21.35	21.37	21.49	21.16	21.38		
5	64QAM	1	24	21.20	21.33	21.17	21.24	21.27	22.5	
5	64QAM	12	0	20.20	20.27	20.46	20.35	20.34		
5	64QAM	12	7	20.12	20.28	20.32	20.23	20.34		
5	64QAM	12	13	20.33	20.25	20.23	20.23	20.29		
5	64QAM	25	0	20.12	20.09	20.22	20.10	20.11	21.5	
5	256QAM	1	0	18.10	18.22	18.32	18.08	18.15		
5	256QAM	1	12	18.06	18.16	18.22	18.22	18.11		
5	256QAM	1	24	18.14	18.27	18.13	18.06	18.04		
5	256QAM	12	0	17.04	17.11	17.39	17.17	17.14	18.5	
5	256QAM	12	7	17.15	17.07	17.17	17.30	17.22		
5	256QAM	12	13	17.14	17.29	17.26	17.03	17.05		
5	256QAM	25	0	17.23	17.14	17.23	17.14	17.14		

Band 66 (dBm)							
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	23.10	23.14	23.16	24
20	QPSK	1	49	23.14	23.11	23.03	
20	QPSK	1	99	22.98	22.99	23.05	
20	QPSK	50	0	22.38	22.26	22.53	
20	QPSK	50	24	22.34	22.17	22.48	23
20	QPSK	50	50	22.17	22.08	22.34	
20	QPSK	100	0	22.20	22.34	22.43	
20	16QAM	1	0	22.09	22.08	22.35	
20	16QAM	1	49	22.20	22.01	22.26	23
20	16QAM	1	99	22.27	22.17	22.22	
20	16QAM	50	0	21.14	21.47	21.30	
20	16QAM	50	24	21.27	21.23	21.24	
20	16QAM	50	50	21.15	21.18	21.29	22
20	16QAM	100	0	21.28	21.56	21.59	
20	64QAM	1	0	21.50	21.52	21.37	
20	64QAM	1	49	21.54	21.33	21.38	
20	64QAM	1	99	21.38	21.20	21.47	21
20	64QAM	50	0	20.36	20.37	20.55	
20	64QAM	50	24	20.40	20.29	20.50	
20	64QAM	50	50	20.40	20.25	20.24	
20	64QAM	100	0	20.51	20.45	20.52	19
20	256QAM	1	0	18.13	18.30	18.40	
20	256QAM	1	49	18.34	17.91	18.13	
20	256QAM	1	99	18.02	18.09	18.09	
20	256QAM	50	0	18.15	18.04	18.11	19
20	256QAM	50	24	18.30	18.40	18.04	
20	256QAM	50	50	18.11	18.01	18.10	
20	256QAM	100	0	17.93	18.10	18.03	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.07	23.02	23.05	24
15	QPSK	1	37	23.06	23.06	22.89	
15	QPSK	1	74	22.96	22.95	22.95	
15	QPSK	36	0	22.32	22.22	22.50	
15	QPSK	36	20	22.31	22.12	22.34	23
15	QPSK	36	39	22.07	22.07	22.31	
15	QPSK	75	0	22.16	22.24	22.42	
15	16QAM	1	0	21.97	22.08	22.16	
15	16QAM	1	37	22.32	22.05	22.06	23
15	16QAM	1	74	22.42	22.13	22.16	
15	16QAM	36	0	21.21	21.36	21.15	
15	16QAM	36	20	21.18	21.26	21.12	
15	16QAM	36	39	21.23	21.02	21.21	22
15	16QAM	75	0	21.13	21.40	21.44	
15	64QAM	1	0	21.37	21.47	21.41	
15	64QAM	1	37	21.42	21.45	21.28	
15	64QAM	1	74	21.38	21.09	21.28	21
15	64QAM	36	0	20.48	20.45	20.49	
15	64QAM	36	20	20.50	20.41	20.49	
15	64QAM	36	39	20.37	20.21	20.09	
15	64QAM	75	0	20.53	20.27	20.50	19
15	256QAM	1	0	18.28	18.20	18.31	
15	256QAM	1	37	18.34	17.95	18.08	
15	256QAM	1	74	17.96	18.00	18.19	
15	256QAM	36	0	17.96	17.96	18.01	19
15	256QAM	36	20	18.27	18.32	18.14	
15	256QAM	36	39	18.08	18.01	18.12	
15	256QAM	75	0	17.96	17.91	17.87	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.01	23.03	23.02	24
10	QPSK	1	25	23.08	23.07	22.91	
10	QPSK	1	49	22.85	22.96	23.01	
10	QPSK	25	0	22.36	22.18	22.52	
10	QPSK	25	12	22.25	22.06	22.37	23
10	QPSK	25	25	22.15	22.02	22.24	
10	QPSK	50	0	22.19	22.24	22.37	
10	16QAM	1	0	21.91	22.15	22.25	
10	16QAM	1	25	22.11	22.02	22.33	23
10	16QAM	1	49	22.13	22.05	22.10	
10	16QAM	25	0	20.98	21.42	21.14	
10	16QAM	25	12	21.15	21.10	21.22	
10	16QAM	25	25	21.24	21.06	21.28	22
10	16QAM	50	0	21.30	21.66	21.66	
10	64QAM	1	0	21.49	21.55	21.42	
10	64QAM	1	25	21.39	21.26	21.48	
10	64QAM	1	49	21.44	21.15	21.43	21
10	64QAM	25	0	20.28	20.27	20.36	
10	64QAM	25	12	20.38	20.20	20.44	
10	64QAM	25	25	20.41	20.17	20.36	
10	64QAM	50	0	20.55	20.50	20.51	19
10	256QAM	1	0	18.20	18.26	18.43	
10	256QAM	1	25	18.45	18.01	18.01	
10	256QAM	1	49	18.00	18.08	18.19	
10	256QAM	25	0	18.27	18.02	18.14	19
10	256QAM	25	12	18.16	18.22	17.97	
10	256QAM	25	25	18.24	17.88	17.98	
10	256QAM	50	0	18.01	18.17	18.02	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.09	23.01	23.12	24
5	QPSK	1	12	23.09	23.06	23.01	
5	QPSK	1	24	22.91	22.90	23.03	
5	QPSK	12	0	22.30	22.24	22.48	
5	QPSK	12	7	22.23	22.03	22.40	23
5	QPSK	12	13	22.11	22.05	22.29	
5	QPSK	25	0	22.08	22.29	22.36	
5	16QAM	1	0	21.94	22.06	22.42	

Band 71 (dBm)							
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	23.49	23.68	23.64	24.5
20	QPSK	1	49	23.55	23.51	23.59	
20	QPSK	1	99	23.51	23.58	23.55	
20	QPSK	50	0	22.56	22.78	22.60	
20	QPSK	50	24	22.55	22.76	22.62	23.5
20	QPSK	50	50	22.71	22.61	22.76	
20	QPSK	100	0	22.57	22.76	22.51	
20	16QAM	1	0	22.56	22.63	22.61	
20	16QAM	1	49	22.48	22.69	22.70	23.5
20	16QAM	1	99	22.38	22.51	22.45	
20	16QAM	50	0	21.55	21.75	21.53	
20	16QAM	50	24	21.50	21.63	21.68	
20	16QAM	50	50	21.42	21.64	21.53	22.5
20	16QAM	100	0	21.65	21.77	21.72	
20	64QAM	1	0	21.49	21.39	21.36	
20	64QAM	1	49	21.35	21.32	21.38	
20	64QAM	1	99	21.34	21.31	21.12	21.5
20	64QAM	50	0	20.58	20.73	20.57	
20	64QAM	50	24	20.63	20.67	20.53	
20	64QAM	50	50	20.68	20.52	20.52	
20	64QAM	100	0	20.52	20.68	20.61	19.5
20	256QAM	1	0	18.66	18.95	18.75	
20	256QAM	1	49	18.71	18.73	18.61	
20	256QAM	1	99	18.69	18.48	18.66	
20	256QAM	50	0	18.67	18.51	18.62	19.5
20	256QAM	50	24	18.68	18.76	18.78	
20	256QAM	50	50	18.78	18.71	18.67	
20	256QAM	100	0	18.87	18.47	18.74	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.45	23.61	23.60	24.5
15	QPSK	1	37	23.45	23.41	23.53	
15	QPSK	1	74	23.42	23.44	23.45	
15	QPSK	36	0	22.46	22.66	22.59	
15	QPSK	36	20	22.48	22.74	22.49	23.5
15	QPSK	36	39	22.59	22.59	22.64	
15	QPSK	75	0	22.54	22.64	22.43	
15	16QAM	1	0	22.50	22.54	22.43	
15	16QAM	1	37	22.45	22.64	22.61	23.5
15	16QAM	1	74	22.29	22.42	22.53	
15	16QAM	36	0	21.53	21.64	21.54	
15	16QAM	36	20	21.32	21.54	21.53	
15	16QAM	36	39	21.50	21.54	21.59	22.5
15	16QAM	75	0	21.57	21.89	21.82	
15	64QAM	1	0	21.42	21.50	21.37	
15	64QAM	1	37	21.25	21.35	21.28	
15	64QAM	1	74	21.22	21.28	21.27	21.5
15	64QAM	36	0	20.49	20.87	20.50	
15	64QAM	36	20	20.60	20.75	20.57	
15	64QAM	36	39	20.66	20.48	20.60	
15	64QAM	75	0	20.32	20.59	20.67	19.5
15	256QAM	1	0	18.56	18.86	18.57	
15	256QAM	1	37	18.75	18.53	18.58	
15	256QAM	1	74	18.60	18.63	18.63	

5	16QAM	1	12	22.12	22.00	22.39	23
5	16QAM	1	24	22.15	22.10	22.11	
5	16QAM	12	0	21.26	21.35	21.22	
5	16QAM	12	7	21.20	21.34	21.10	
5	16QAM	12	13	21.05	21.19	21.41	
5	16QAM	25	0	21.55	21.36	21.70	
5	64QAM	1	0	21.43	21.32	21.49	
5	64QAM	1	12	21.36	21.45	21.38	
5	64QAM	1	24	21.42	21.01	21.47	
5	64QAM	12	0	20.34	20.49	20.60	
5	64QAM	12	7	20.38	20.13	20.33	
5	64QAM	12	13	20.46	20.17	20.24	
5	64QAM	25	0	20.41	20.28	20.37	
5	256QAM	1	0	18.26	18.41	18.31	
5	256QAM	1	12	18.29	18.03	18.03	
5	256QAM	1	24	18.00	18.22	18.19	
5	256QAM	12	0	18.20	18.14	18.02	
5	256QAM	12	7	18.35	18.22	17.98	
5	256QAM	12	13	18.24	17.93	17.90	
5	256QAM	25	0	17.87	17.91	17.94	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.04	23.02	23.13	
3	QPSK	1	8	23.11	23.04	22.94	
3	QPSK	1	14	22.95	22.94	22.93	
3	QPSK	8	0	22.35	22.25	22.41	
3	QPSK	8	4	22.32	22.16	22.36	
3	QPSK	8	7	22.03	21.95	22.25	
3	QPSK	15	0	22.15	22.31	22.37	
3	16QAM	1	0	22.17	22.18	22.31	
3	16QAM	1	8	22.19	22.12	22.24	
3	16QAM	1	14	22.33	22.03	22.02	
3	16QAM	8	0	21.13	21.57	21.36	
3	16QAM	8	4	21.16	21.35	21.11	
3	16QAM	8	7	21.08	21.17	21.27	
3	16QAM	15	0	21.42	21.68	21.59	
3	64QAM	1	0	21.41	21.47	21.37	
3	64QAM	1	8	21.28	21.23	21.49	
3	64QAM	1	14	21.39	21.08	21.51	
3	64QAM	8	0	20.33	20.42	20.35	
3	64QAM	8	4	20.41	20.28	20.61	
3	64QAM	8	7	20.43	20.20	20.11	
3	64QAM	15	0	20.38	20.45	20.48	
3	256QAM	1	0	18.25	18.13	18.22	
3	256QAM	1	8	18.12	17.78	18.17	
3	256QAM	1	14	17.90	17.97	17.98	
3	256QAM	8	0	17.95	18.05	18.14	
3	256QAM	8	4	18.41	18.36	18.13	
3	256QAM	8	7	18.04	18.04	18.08	
3	256QAM	15	0	17.80	18.15	17.87	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.09	23.02	23.10	
1.4	QPSK	1	3	23.04	23.06	22.92	
1.4	QPSK	1	5	22.96	22.93	23.04	
1.4	QPSK	3	0	22.79	22.68	22.94	
1.4	QPSK	3	1	22.71	22.63	22.92	
1.4	QPSK	3	3	22.66	22.74	22.81	
1.4	QPSK	6	0	22.15	22.32	22.38	
1.4	16QAM	1	0	21.94	22.17	22.35	
1.4	16QAM	1	3	22.07	21.95	22.19	
1.4	16QAM	1	5	22.08	22.02	22.23	
1.4	16QAM	3	0	21.69	21.86	21.74	
1.4	16QAM	3	1	21.90	21.55	21.58	
1.4	16QAM	3	3	21.66	21.82	21.88	
1.4	16QAM	6	0	21.39	21.63	21.52	
1.4	64QAM	1	0	21.53	21.62	21.48	
1.4	64QAM	1	3	21.39	21.25	21.50	
1.4	64QAM	1	5	21.24	21.18	21.58	
1.4	64QAM	3	0	20.78	20.79	20.86	
1.4	64QAM	3	1	20.83	20.59	21.04	
1.4	64QAM	3	3	20.76	20.74	20.86	
1.4	64QAM	6	0	20.64	20.52	20.32	
1.4	256QAM	1	0	18.02	18.19	18.42	
1.4	256QAM	1	3	18.25	18.04	18.01	
1.4	256QAM	1	5	18.16	18.13	18.09	
1.4	256QAM	3	0	18.18	17.85	18.03	
1.4	256QAM	3	1	18.32	18.28	18.14	
1.4	256QAM	3	3	18.00	17.90	18.19	
1.4	256QAM	6	0	17.79	18.17	17.91	

5	16QAM	1	12	22.51	22.51	22.83	23.5
5	16QAM	1	24	22.47	22.56	22.35	
5	16QAM	12	0	21.61	21.77	21.53	
5	16QAM	12	7	21.31	21.70	21.64	
5	16QAM	12	13	21.33	21.77	21.48	
5	16QAM	25	0	21.54	21.65	21.56	
5	64QAM	1	0	21.48	21.23	21.17	
5	64QAM	1	12	21.46	21.29	21.33	
5	64QAM	1	24	21.18	21.28	21.18	
5	64QAM	12	0	20.43	20.79	20.53	
5	64QAM	12	7	20.52	20.74	20.67	
5	64QAM	12	13	20.62	20.62	20.60	
5	64QAM	25	0	20.62	20.62	20.46	
5	256QAM	1	0	18.79	18.81	18.58	
5	256QAM	1	12	18.65	18.86	18.63	
5	256QAM	1	24	18.54	18.40	18.48	
5	256QAM	12	0	18.81	18.56	18.63	
5	256QAM	12	7	18.66	18.68	18.85	
5	256QAM	12	13	18.71	18.71	18.61	
5	256QAM	25	0	18.86	18.45	18.56	

n2 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	24
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.88	22.91	22.78	24
20		1	53	22.91	22.81	22.73	
20		1	104	22.96	22.75	22.80	
20		50	1	22.91	22.91	22.59	24
20		50	25	22.88	22.84	22.78	
20		50	50	22.97	22.70	22.63	
20		100	0	22.92	22.79	22.64	
20	DFT-s-OFDM QPSK	1	1	23.06	23.35	23.02	24
20		1	53	22.93	22.91	22.78	
20		1	104	22.94	22.82	22.82	
20		50	1	22.96	23.24	23.07	24
20		50	25	22.96	22.91	22.81	
20		50	50	22.95	22.76	22.73	
20		100	0	22.83	23.02	22.67	
20	DFT-s-OFDM 16QAM	1	1	22.31	22.42	22.30	23
20	DFT-s-OFDM 64QAM	1	1	20.49	20.51	20.41	21
20	DFT-s-OFDM 256QAM	1	1	18.52	18.49	18.43	19
20	CP-OFDM QPSK	1	1	22.34	22.29	22.20	23
20	CP-OFDM 16QAM	1	1	21.00	20.94	20.90	22
20	CP-OFDM 64QAM	1	1	19.64	19.57	19.39	20
20	CP-OFDM 256QAM	1	1	16.55	16.51	16.44	17
Channel				371500	376000	380500	24
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	23.01	22.81	22.66	24
Channel				371000	376000	381000	24
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	23.04	23.01	22.92	24
Channel				370500	376000	381500	24
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	23.01	23.05	22.87	24

n2 (PC3)_30KHz

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	23.02	23.02	22.85	24
20		1	25	23.08	23.01	22.81	
20		1	49	23.02	22.90	22.80	
20		25	1	23.10	22.98	22.74	24
20		25	12	23.15	23.01	22.81	
20		25	25	23.15	22.99	22.90	
20		50	0	23.15	23.05	22.74	
20	DFT-s-OFDM QPSK	1	1	23.05	23.17	22.88	24
20		1	25	23.16	23.16	22.85	
20		1	49	23.09	23.16	22.85	
20		25	1	23.09	23.14	22.82	24
20		25	12	23.09	22.98	22.91	
20		25	25	23.05	22.97	22.90	
20		50	0	23.08	23.05	22.70	
20	DFT-s-OFDM 16QAM	1	1	22.47	22.59	22.38	23
20	DFT-s-OFDM 64QAM	1	1	20.59	20.70	20.44	21.5
20	DFT-s-OFDM 256QAM	1	1	18.63	18.62	18.46	19
20	CP-OFDM QPSK	1	1	22.50	22.44	22.28	23
20	CP-OFDM 16QAM	1	1	21.11	21.12	21.01	22
20	CP-OFDM 64QAM	1	1	19.76	19.70	19.58	20.5
20	CP-OFDM 256QAM	1	1	16.69	16.59	16.45	17
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	23.14	23.01	22.77	24
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	23.06	23.08	22.94	24

n5 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	24.5
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.29	23.30	23.35	24.5
20		1	53	23.48	23.45	23.42	
20		1	104	23.46	23.48	23.46	
20		50	1	23.34	23.40	23.49	24.5
20	DFT-s-OFDM QPSK	50	25	23.48	23.49	23.44	
20		50	50	23.44	23.34	23.29	
20		100	0	23.44	23.36	23.35	
20		1	1	23.51	23.54	23.50	24.5
20	DFT-s-OFDM 16QAM	1	53	23.34	23.45	23.43	
20		1	104	23.47	23.42	23.22	
20		50	1	23.44	23.50	23.42	24.5
20		50	25	23.39	23.45	23.48	
20	DFT-s-OFDM 64QAM	50	50	23.41	23.46	23.31	
20		100	0	23.45	23.47	23.38	
20	DFT-s-OFDM 256QAM	1	1	22.80	22.82	22.88	23.5
20	DFT-s-OFDM 16QAM	1	1	20.50	20.66	20.59	21.5
20	DFT-s-OFDM 64QAM	1	1	18.67	18.77	18.79	19.5
20	CP-OFDM QPSK	1	1	22.64	22.71	22.81	23.5
20	CP-OFDM 16QAM	1	1	21.33	21.45	21.38	22.5
20	CP-OFDM 64QAM	1	1	19.48	19.69	19.63	20.5
20	CP-OFDM 256QAM	1	1	16.62	16.72	16.86	17.5
Channel				166300	167300	168300	24.5
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.22	23.23	23.27	24.5
Channel				165800	167300	168800	24.5
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.28	23.39	23.28	24.5
Channel				165300	167300	169300	24.5
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.30	23.41	23.46	24.5

n5 (PC3)_30KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	24.5
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.22	23.25	23.26	24.5
20		1	25	23.33	23.39	23.40	
20		1	49	23.45	23.43	23.35	
20		25	1	23.35	23.31	23.36	24.5
20		25	12	23.40	23.48	23.42	
20		25	25	23.45	23.46	23.43	
20	DFT-s-OFDM QPSK	50	0	23.40	23.46	23.41	24.5
20		1	1	23.43	23.53	23.48	
20		1	25	23.32	23.50	23.39	
20		1	49	23.34	23.48	23.41	24.5
20		25	1	23.44	23.46	23.41	
20		25	12	23.37	23.42	23.22	
20	DFT-s-OFDM 16QAM	25	25	23.41	23.41	23.33	24.5
20		50	0	23.39	23.33	23.36	
20		1	1	22.78	22.69	22.90	23.5
20		1	1	20.63	20.68	20.80	21.5
20		1	1	18.54	18.59	18.72	19.5
20	CP-OFDM QPSK	1	1	22.74	22.88	22.86	23.5
20	CP-OFDM 16QAM	1	1	21.00	21.13	21.12	22
20	CP-OFDM 64QAM	1	1	19.57	19.66	19.69	20.5
20	CP-OFDM 256QAM	1	1	16.57	16.64	16.67	17.5
Channel				166300	167300	168300	24.5
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.29	23.23	23.37	24.5
Channel				165800	167300	168800	24.5
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.29	23.40	23.37	24.5

n12 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	24
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	23.08	23.17	23.15	24
15		1	39	23.30	23.27	23.20	
15		1	77	23.21	23.21	23.13	
15		36	1	23.13	23.15	23.32	24
15	DFT-s-OFDM QPSK	36	18	23.28	23.25	23.26	
15		36	37	23.15	23.23	23.34	
15		75	0	23.19	23.26	23.36	
15		1	1	23.35	23.44	23.40	24
15	DFT-s-OFDM 16QAM	1	39	23.24	23.21	23.30	
15		1	77	23.19	23.19	23.23	
15		36	1	23.34	23.36	23.33	24
15		36	18	23.36	23.23	23.29	
15	DFT-s-OFDM 64QAM	36	37	23.26	23.31	23.30	
15		75	0	23.16	23.29	23.23	24
15		1	1	22.64	22.67	22.68	
15		1	1	20.44	20.44	20.38	
15	DFT-s-OFDM 256QAM	1	1	18.54	18.54	18.61	19.5
15	CP-OFDM QPSK	1	1	22.63	22.57	22.76	23.5
15	CP-OFDM 16QAM	1	1	21.07	21.20	21.12	22
15	CP-OFDM 64QAM	1	1	19.56	19.59	19.61	20.5
15	CP-OFDM 256QAM	1	1	16.74	16.75	17.01	17.5
Channel				140800	141500	142200	24
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	23.10	23.10	23.11	24
Channel				140300	141500	142700	24
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	23.17	23.17	23.17	24

n12 (PC3)_30KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				141300	141500	141700	(dBm)
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	23.21	23.08	23.20	24
15		1	19	23.25	23.04	23.27	
15		1	36	23.28	23.14	23.24	
15		18	1	23.10	23.04	23.10	24
15		18	9	23.19	23.19	23.30	
15		18	18	23.27	23.22	23.23	
15	DFT-s-OFDM QPSK	36	0	23.14	23.13	23.28	24
15		1	1	23.35	23.42	23.38	
15		1	19	23.19	23.03	23.12	
15		1	36	23.22	23.18	23.09	24
15		18	1	23.37	23.38	23.32	
15		18	9	23.27	23.17	23.28	
15		18	18	23.23	23.23	23.27	
15		36	0	23.15	23.26	23.24	
15	DFT-s-OFDM 16QAM	1	1	22.65	22.75	22.72	23.5
15	DFT-s-OFDM 64QAM	1	1	20.51	20.55	20.57	21.5
15	DFT-s-OFDM 256QAM	1	1	18.37	18.39	18.38	19
15	CP-OFDM QPSK	1	1	22.58	22.66	22.49	23.5
15	CP-OFDM 16QAM	1	1	21.12	21.18	21.14	22
15	CP-OFDM 64QAM	1	1	19.36	19.36	19.30	20
15	CP-OFDM 256QAM	1	1	16.74	16.76	16.63	17.5
Channel				140800	141500	142200	Tune-up limit
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	23.23	23.04	23.16	24

n25 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	24
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.55	22.61	22.53	24
40		1	108	22.91	22.95	22.82	
40		1	214	22.47	22.42	22.44	
40		108	1	22.75	22.76	22.89	24
40		108	54	22.88	22.97	22.86	
40		108	108	22.56	22.88	22.56	
40		216	0	22.57	22.84	22.68	
40	DFT-s-OFDM QPSK	1	1	22.90	23.28	22.89	24
40		1	108	22.63	22.65	22.57	
40		1	214	22.49	22.40	22.48	
40		108	1	22.93	22.95	22.88	24
40		108	54	22.73	22.80	22.89	
40		108	108	22.56	22.87	22.56	
40		216	0	22.59	22.84	22.72	
40	DFT-s-OFDM 16QAM	1	1	21.98	22.09	21.99	23
40	DFT-s-OFDM 64QAM	1	1	20.09	20.14	20.15	21
40	DFT-s-OFDM 256QAM	1	1	18.19	18.24	18.14	19
40	CP-OFDM QPSK	1	1	22.03	21.97	21.96	23
40	CP-OFDM 16QAM	1	1	20.76	20.75	20.66	22
40	CP-OFDM 64QAM	1	1	19.28	19.30	19.27	20
40	CP-OFDM 256QAM	1	1	16.24	16.25	16.17	17
Channel				373000	376500	380000	24
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	22.89	22.51	22.65	24
Channel				372000	376500	381000	24
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	23.14	22.89	22.85	24
Channel				371500	376500	381500	24
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	23.00	22.90	22.74	24
Channel				371000	376500	382000	24
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	23.16	22.73	22.77	24
Channel				370500	376500	382500	24
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	23.13	23.09	22.93	24

n25 (PC3)_30KHz

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	24
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.69	22.73	22.58	24
40		1	53	22.98	22.86	22.91	
40		1	104	23.02	22.98	22.96	
40		50	1	22.90	22.67	22.85	24
40		50	25	22.99	22.84	22.90	
40		50	50	22.99	23.03	22.98	
40		100	0	22.91	22.83	22.92	
40	DFT-s-OFDM QPSK	1	1	22.88	23.23	22.89	24
40		1	53	22.91	22.94	22.99	
40		1	104	22.96	23.03	22.97	
40		50	1	22.94	22.63	22.95	24
40		50	25	23.04	22.92	22.95	
40		50	50	22.98	23.04	22.99	
40		100	0	22.89	22.88	23.01	
40	DFT-s-OFDM 16QAM	1	1	22.09	22.19	22.22	23
40	DFT-s-OFDM 64QAM	1	1	20.21	20.23	20.24	22
40	DFT-s-OFDM 256QAM	1	1	18.33	18.33	18.20	19
40	CP-OFDM QPSK	1	1	22.14	22.13	22.06	23
40	CP-OFDM 16QAM	1	1	20.79	20.85	20.76	21.5
40	CP-OFDM 64QAM	1	1	19.43	19.41	19.37	21
40	CP-OFDM 256QAM	1	1	16.30	16.31	16.30	17
Channel				373000	376500	380000	24
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	22.94	22.65	22.74	24
Channel				372500	376500	380500	24
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	22.99	22.93	22.86	24
Channel				372000	376500	381000	24
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	23.06	23.05	22.95	24
Channel				371500	376500	381500	24
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	23.12	22.99	22.85	24
Channel				371000	376500	382000	24
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	23.07	22.79	22.93	24

n41 (PC2)_SCS 15KHz									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				504201	511404	518601	525798	532998	
Frequency (MHz)				2521.01	2557.02	2593.01	2626.5	2664.99	
50	DFT-s-OFDM PI/2 BPSK	1	1	26.10	25.99	26.04	26.08	26.06	27.50
50		1	135	26.11	26.13	26.17	26.19	26.10	
50		1	268	26.03	26.15	26.04	26.01	26.14	
50		135	1	26.03	26.10	26.27	26.13	25.93	27.50
50		135	67	26.13	26.15	26.27	26.21	26.10	
50		135	135	26.16	26.07	26.07	26.29	26.06	
50		270	0	26.13	26.11	26.27	26.24	25.96	
50	DFT-s-OFDM QPSK	1	1	26.24	26.33	26.42	26.39	26.40	27.50
50		1	135	26.16	26.18	26.24	26.25	26.18	
50		1	268	26.07	26.22	26.07	26.06	26.20	
50		135	1	26.26	26.19	26.30	26.21	26.24	27.50
50		135	67	26.19	26.17	26.25	26.25	26.12	
50		135	135	26.17	26.09	26.13	26.29	26.10	
50		270	0	26.16	26.12	26.10	26.26	25.96	
50	DFT-s-OFDM 16QAM	1	1	25.15	25.06	24.72	25.07	25.07	26.00
50	DFT-s-OFDM 64QAM	1	1	23.49	23.40	23.65	23.75	23.60	24.50
50	DFT-s-OFDM 256QAM	1	1	21.66	21.65	21.35	21.45	21.77	22.50
50	CP-OFDM QPSK	1	1	25.56	25.42	25.63	25.44	25.51	26.50
50	CP-OFDM 16QAM	1	1	24.07	23.89	24.00	24.02	24.01	25.00
50	CP-OFDM 64QAM	1	1	22.58	22.68	22.68	22.36	22.67	23.50
50	CP-OFDM 256QAM	1	1	19.83	19.48	19.62	19.79	19.75	20.50
Channel				503202	510900	518601	526296	534000	Tune-up limit
Frequency (MHz)				2516.01	2554.5	2593.01	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	25.82	25.67	25.78	25.76	25.72	27.50
Channel				502200	510402	518601	526800	534999	Tune-up limit
Frequency (MHz)				2511	2552.01	2593.01	2634	2674.99	
30	DFT-s-OFDM QPSK	1	1	25.94	25.81	25.96	25.90	25.79	27.50
Channel				501201	509904	518601	527298	535998	Tune-up limit
Frequency (MHz)				2506.01	2549.52	2593.01	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	26.28	26.11	26.25	26.19	26.31	27.50
Channel				500700	509652	518601	527550	536499	Tune-up limit
Frequency (MHz)				2503.5	2548.26	2593.01	2637.75	2682.49	
15	DFT-s-OFDM QPSK	1	1	26.34	26.04	26.19	26.38	26.14	27.50
Channel				500202	509400	518601	527796	537000	Tune-up limit
Frequency (MHz)				2501.01	2547	2593.01	2638.98	2685	
10	DFT-s-OFDM QPSK	1	1	26.31	26.13	26.29	26.23	26.12	27.50

n41 (PC2)_SCS 30KHz									
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	28.00
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	26.55	26.61	26.65	26.66	26.68	28.00
100		1	136	26.69	26.77	26.87	26.90	26.72	
100		1	271	26.69	26.83	26.79	26.74	26.73	
100		135	1	26.67	26.76	27.03	26.86	26.73	
100		135	67	26.76	26.84	27.03	27.03	26.86	
100		135	136	26.77	26.78	26.69	27.10	26.81	
100	DFT-s-OFDM QPSK	270	0	26.73	26.78	27.05	26.98	26.71	28.00
100		1	1	27.24	27.22	27.38	27.19	27.36	
100		1	136	26.74	26.79	26.94	27.05	27.01	
100		1	271	26.70	26.91	26.80	26.91	26.97	
100		135	1	27.01	26.93	27.09	26.92	26.95	
100		135	67	26.78	26.86	27.04	27.08	26.90	
100	DFT-s-OFDM 16QAM	135	136	26.82	26.80	26.94	26.93	26.85	28.00
100		270	0	26.73	26.78	27.07	27.04	26.75	
100		1	1	25.57	25.69	25.87	25.85	25.89	
100		1	1	24.18	24.12	24.25	24.33	24.31	
100	DFT-s-OFDM 64QAM	1	1	22.16	21.98	22.19	22.27	22.22	23.00
100	DFT-s-OFDM 256QAM	1	1	22.16	21.98	22.19	22.27	22.22	23.00
100	CP-OFDM QPSK	1	1	26.01	26.02	26.17	26.12	26.16	27.00
100	CP-OFDM 16QAM	1	1	24.67	24.59	24.79	24.83	24.82	25.50
100	CP-OFDM 64QAM	1	1	23.08	22.98	23.17	23.25	23.24	24.00
100	CP-OFDM 256QAM	1	1	20.30	20.19	20.41	20.51	20.51	21.50
Channel				508200	513402	518598	523800	528996	28.00
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	26.75	26.43	26.50	26.61	26.51	28.00
Channel				507204	512904	518598	524298	529998	28.00
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	26.91	26.61	26.72	26.81	26.71	28.00
Channel				505200	511902	518598	525798	531996	28.00
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	26.68	26.77	26.80	26.83	26.68	28.00
Channel				504204	511404	518598	525798	532998	28.00
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	27.24	27.22	27.38	27.19	27.36	28.00
Channel				504204	511404	518598	525798	532998	28.00
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
40	DFT-s-OFDM QPSK	1	1	27.12	27.27	27.33	27.20	27.30	0.00
Channel				504204	511404	518598	525798	532998	28.00
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
30	DFT-s-OFDM QPSK	1	1	27.01	27.23	27.24	27.17	27.11	0.00
Channel				504204	511404	518598	525798	532998	28.00
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
20	DFT-s-OFDM QPSK	1	1	27.17	27.02	27.28	27.09	27.26	0.00
Channel				504204	511404	518598	525798	532998	28.00
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
20	DFT-s-OFDM QPSK	1	1	27.14	27.33	27.05	27.24	27.21	0.00

n48 (PC3)_SCS 15K									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638334	640000	641666	643332	645000	22.00
Frequency (MHz)				3575.01	3600	3624.99	3647.49	3675	
50	DFT-s-OFDM PI/2 BPSK	1	1	20.49	20.55	20.93	20.74	20.56	22.00
50		1	135	20.68	21.03	20.90	20.77	20.57	
50		1	268	20.97	20.75	20.71	20.53	20.34	
50		135	1	20.65	20.78	20.82	20.87	20.59	22.00
50		135	67	20.69	21.05	20.84	20.83	20.58	
50		135	135	20.76	20.87	20.89	20.66	20.41	
50	DFT-s-OFDM QPSK	270	0	20.63	20.99	20.78	20.75	20.52	22.00
50		1	1	20.47	20.54	21.07	20.75	20.63	
50		1	135	20.69	21.04	20.86	20.79	20.67	
50		1	268	20.96	20.73	20.73	20.52	20.33	22.00
50		135	1	20.87	20.79	20.93	20.89	20.86	
50		135	67	20.69	20.89	20.85	20.85	20.65	
50	DFT-s-OFDM 16QAM	135	135	20.76	20.85	20.93	20.68	20.44	22.00
50		270	0	20.68	20.88	20.78	20.77	20.52	
50		1	1	19.87	19.92	20.30	20.11	20.19	21.00
50	DFT-s-OFDM 64QAM	1	1	18.11	18.17	18.51	18.36	18.39	20.00
50	DFT-s-OFDM 256QAM	1	1	15.89	15.94	16.24	16.15	16.18	17.00
50	CP-OFDM QPSK	1	1	20.00	20.06	20.41	20.24	20.28	25.00
50	CP-OFDM 16QAM	1	1	18.43	18.45	18.81	-55.58	18.62	24.00
50	CP-OFDM 64QAM	1	1	17.07	17.09	17.46	17.09	17.00	23.00
50	CP-OFDM 256QAM	1	1	13.80	13.83	14.27	14.27	14.24	19.00
Channel				638000	639834	641666	643500	645332	22.00
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM QPSK	1	1	20.25	20.20	20.56	20.43	20.18	22.00
Channel				637334	639500	641666	643832	646000	22.00
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	20.58	20.70	20.66	20.76	20.52	22.00
Channel				637168	639418	641666	643916	646166	22.00
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	20.57	20.68	20.61	20.70	20.43	22.00
Channel				637000	639334	641666	644000	646332	22.00
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	20.57	20.76	20.64	20.72	20.45	22.00

n48 (PC3)_SCS 30KHz									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				640000	640834	641666	642500	643332	22.50
Frequency (MHz)				3600	3612.51	3624.99	3637.5	3649.98	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.68	20.72	20.72	20.79	20.94	22.50
100		1	136	21.57	21.22	21.17	21.29	21.29	
100		1	271	20.57	20.46	20.46	20.41	20.36	
100		135	1	21.19	21.30	21.47	21.05	21.01	22.50
100		135	67	21.59	21.40	21.19	21.32	21.32	
100		135	136	21.00	21.10	21.14	21.06	21.02	
100		270	0	21.50	21.30	21.04	21.14	21.16	
100	DFT-s-OFDM QPSK	1	1	21.44	21.54	21.61	21.39	21.57	22.50
100		1	136	21.56	21.21	21.21	21.31	21.34	
100		1	271	21.33	21.44	21.13	21.21	21.30	
100		135	1	21.39	21.45	21.53	21.47	21.35	22.50
100		135	67	21.33	21.45	21.24	21.35	21.36	
100		135	136	21.02	21.13	21.18	21.10	21.04	
100		270	0	21.50	21.29	21.07	21.19	21.18	
100	DFT-s-OFDM 16QAM	1	1	20.26	20.29	20.09	20.37	20.50	21.00
100	DFT-s-OFDM 64QAM	1	1	18.17	18.22	18.16	18.30	18.47	19.00
100	DFT-s-OFDM 256QAM	1	1	15.96	16.04	16.17	16.12	16.28	17.00
100	CP-OFDM QPSK	1	1	20.08	20.14	20.22	20.21	20.38	21.00
100	CP-OFDM 16QAM	1	1	18.64	18.70	18.72	18.79	18.94	19.50
100	CP-OFDM 64QAM	1	1	17.06	17.10	17.08	17.17	17.33	18.00
100	CP-OFDM 256QAM	1	1	14.02	14.12	14.20	14.18	14.37	15.00
Channel				639668	640668	641666	642666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3610.02	3624.99	3639.99	3654.99	
90	DFT-s-OFDM QPSK	1	1	20.76	20.80	20.74	20.97	20.55	22.50
Channel				639334	640500	641666	642832	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3607.5	3624.99	3642.48	3660	
80	DFT-s-OFDM QPSK	1	1	20.92	20.96	20.96	20.83	20.59	22.50
Channel				638668	640168	641666	643332	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3602.52	3624.99	3647.49	3669.99	
60	DFT-s-OFDM QPSK	1	1	20.87	20.89	21.12	20.88	21.01	22.50
Channel				638334	640000	641666	643332	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3600	3624.99	3647.49	3675	
50	DFT-s-OFDM QPSK	1	1	21.08	21.06	21.33	21.12	20.99	22.50
Channel				638000	639834	641666	643500	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM QPSK	1	1	20.81	20.82	21.04	20.80	20.75	22.50
Channel				637334	639500	641666	643832	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	21.22	21.23	21.10	21.24	21.04	22.50
Channel				637168	639418	641666	643916	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	21.25	21.33	21.10	21.25	21.03	22.50
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	21.27	21.35	21.16	21.30	21.07	22.50

n66 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	24
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.27	23.33	23.09	24
40		1	108	23.12	23.13	23.11	
40		1	214	23.20	23.28	23.14	
40		108	1	23.13	23.17	23.22	24
40		108	54	23.34	23.22	23.19	
40		108	108	23.40	23.20	23.29	
40	DFT-s-OFDM QPSK	216	0	23.18	23.13	23.18	24
40		1	1	23.38	23.48	23.41	
40		1	108	23.21	23.30	23.29	
40		1	214	23.17	23.22	23.15	24
40		108	1	23.33	23.40	23.37	
40		108	54	23.24	23.20	23.03	
40	DFT-s-OFDM 16QAM	108	108	23.22	22.83	22.95	24
40		216	0	23.19	23.25	23.16	
40	DFT-s-OFDM 16QAM	1	1	22.37	22.30	22.18	23
40	DFT-s-OFDM 64QAM	1	1	20.24	20.21	20.03	21
40	DFT-s-OFDM 256QAM	1	1	18.44	18.33	18.18	19
40	CP-OFDM QPSK	1	1	22.21	22.18	22.16	23
40	CP-OFDM 16QAM	1	1	21.77	21.55	21.29	22.5
40	CP-OFDM 64QAM	1	1	19.42	19.21	19.34	20
40	CP-OFDM 256QAM	1	1	16.49	16.34	16.33	17
Channel				345000	349000	353000	24
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	22.92	22.81	22.68	24
Channel				344000	349000	354000	24
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.33	23.31	23.02	24
Channel				343500	349000	354500	24
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.20	23.17	23.09	24
Channel				343000	349000	355000	24
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.33	23.19	23.05	24
Channel				342500	349000	355500	24
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.37	23.37	23.08	24

n66 (PC3)_30KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	24
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.29	23.38	23.33	24
40		1	53	23.35	23.05	23.27	
40		1	104	23.16	23.10	23.19	
40		50	1	23.08	23.07	23.11	24
40	DFT-s-OFDM QPSK	50	25	23.19	23.05	23.22	
40		50	50	23.31	23.19	23.01	
40		100	0	22.91	23.01	22.75	
40		1	1	23.35	23.39	23.31	24
40	DFT-s-OFDM 16QAM	1	53	23.20	23.29	23.24	
40		1	104	23.15	23.23	23.15	
40		50	1	23.18	23.23	23.20	24
40		50	25	23.02	23.04	22.87	
40	DFT-s-OFDM 64QAM	50	50	23.19	23.11	22.98	
40		100	0	22.91	23.12	22.72	23
40		1	1	22.42	22.27	22.05	
40		1	1	20.42	20.53	20.34	21
40	DFT-s-OFDM 256QAM	1	1	18.40	18.35	18.19	19
40	CP-OFDM QPSK	1	1	22.29	22.33	22.13	23
40	CP-OFDM 16QAM	1	1	20.56	20.50	20.29	21.5
40	CP-OFDM 64QAM	1	1	19.47	19.39	19.16	20
40	CP-OFDM 256QAM	1	1	16.45	16.33	16.25	17
Channel				345000	349000	353000	24
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	22.88	22.87	22.64	24
Channel				344500	349000	353500	24
Frequency (MHz)				1722.5	1745	1767.5	
25	DFT-s-OFDM QPSK	1	1	23.13	23.05	22.84	24
Channel				344000	349000	354000	24
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.25	23.23	23.10	24
Channel				343500	349000	354500	24
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.27	23.09	22.96	24
Channel				343000	349000	355000	24
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.25	23.12	22.94	24

n71 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	24.5
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.63	23.51	23.37	24.5
20		1	53	23.52	23.38	23.43	
20		1	104	23.47	23.24	23.23	
20		50	1	23.34	23.44	23.32	24.5
20		50	25	23.54	23.43	23.35	
20		50	50	23.30	23.44	23.13	
20	DFT-s-OFDM QPSK	100	0	23.33	23.59	23.21	24.5
20		1	1	23.59	23.64	23.52	
20		1	53	23.55	23.34	23.33	
20		1	104	23.37	23.28	23.28	24.5
20		50	1	23.34	23.59	23.32	
20		50	25	23.56	23.48	23.34	
20	DFT-s-OFDM 16QAM	50	50	23.38	23.44	23.23	24.5
20		100	0	23.34	23.53	23.27	
20		1	1	23.08	23.04	22.89	23.5
20		1	1	20.95	20.82	20.64	21.5
20		1	1	19.05	18.87	18.87	20
20	CP-OFDM QPSK	1	1	23.08	22.90	23.12	24
20	CP-OFDM 16QAM	1	1	21.81	21.59	21.52	22.5
20	CP-OFDM 64QAM	1	1	20.03	19.83	19.80	21
20	CP-OFDM 256QAM	1	1	17.30	17.21	17.07	18
Channel				134100	136100	138100	24.5
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	23.51	23.35	23.23	24.5
Channel				133600	136100	138600	24.5
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	23.54	23.28	23.28	24.5
Channel				133100	136100	139100	24.5
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	23.51	23.32	23.30	24.5

n71 (PC3)_30KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	24.5
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.55	23.42	23.26	24.5
20		1	25	23.59	23.30	23.27	
20		1	49	23.40	23.29	23.41	
20		25	1	23.50	23.38	23.33	24.5
20	DFT-s-OFDM QPSK	25	12	23.48	23.45	23.38	
20		25	25	23.51	23.52	23.34	
20		50	0	23.40	23.49	23.27	
20		1	1	23.53	23.60	23.54	24.5
20	DFT-s-OFDM 16QAM	1	25	23.46	23.30	23.32	
20		1	49	23.45	23.32	23.27	
20		25	1	23.55	23.59	23.53	24.5
20		25	12	23.56	23.44	23.39	
20	DFT-s-OFDM 64QAM	25	25	23.53	23.44	23.42	
20		50	0	23.41	23.50	23.34	24
20		1	1	23.16	23.07	22.98	
20		1	1	21.00	20.93	20.75	21.5
20	DFT-s-OFDM 256QAM	1	1	18.85	18.74	18.63	19.5
20	CP-OFDM QPSK	1	1	22.99	22.94	22.79	23.5
20	CP-OFDM 16QAM	1	1	21.56	21.45	21.32	22
20	CP-OFDM 64QAM	1	1	19.90	19.72	19.56	20.5
20	CP-OFDM 256QAM	1	1	17.20	17.09	16.94	18
Channel				134100	136100	138100	24.5
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	23.50	23.45	23.30	24.5
Channel				133600	136100	138600	24.5
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	23.40	23.34	23.25	24.5

n77(3450-3550MHz) (PC2)_SCS 15KHz									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				631668	632500	633334	634166	635000	24.50
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM PI/2 BPSK	1	1	23.28	23.20	23.08	22.96	22.95	24.50
50		1	135	23.20	23.16	23.13	22.96	22.89	
50		1	268	22.96	22.84	22.69	22.81	23.09	
50		135	1	23.22	23.12	23.06	23.01	22.86	24.00
50		135	67	23.22	23.17	23.16	23.00	22.89	
50		135	135	23.12	23.15	22.95	22.87	22.95	
50	DFT-s-OFDM QPSK	270	0	23.18	23.10	23.11	22.97	22.84	24.50
50		1	1	23.42	23.40	23.62	23.51	23.59	
50		1	135	23.24	23.12	23.16	22.94	22.85	
50		1	268	22.98	22.83	22.71	22.82	23.10	24.00
50		135	1	23.27	23.15	23.07	23.03	22.88	
50		135	67	23.25	23.20	23.19	22.96	22.92	
50	DFT-s-OFDM 16QAM	135	135	23.16	23.15	22.98	22.87	22.96	24.00
50		270	0	23.19	23.14	23.14	22.96	22.87	
50		1	1	22.33	22.15	22.00	21.87	21.89	23.50
50	DFT-s-OFDM 64QAM	1	1	20.84	20.77	20.61	20.47	20.50	21.50
50	DFT-s-OFDM 256QAM	1	1	19.00	18.94	18.78	18.69	18.67	20.00
50	CP-OFDM QPSK	1	1	22.75	22.67	22.52	22.44	22.41	23.50
50	CP-OFDM 16QAM	1	1	21.30	21.18	21.05	20.95	20.90	22.00
50	CP-OFDM 64QAM	1	1	20.19	20.08	19.96	19.85	19.81	21.00
50	CP-OFDM 256QAM	1	1	16.99	16.91	16.76	16.68	16.65	18.00
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	23.44	23.28	23.36	23.29	23.41	24.50
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	23.24	23.03	22.91	22.70	22.58	24.50
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	23.31	23.03	22.94	22.68	22.64	24.50
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	23.31	23.07	22.97	22.67	22.78	24.50

n77(3450-3550MHz) (PC2)_SCS 30KHz									
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			24.50
100		1	136			23.01			
100		1	271			22.40			
100		135	1			23.28			
100	DFT-s-OFDM QPSK	135	67			23.04			24.50
100		135	136			22.67			
100		270	0			22.89			
100		1	1			23.65			
100	DFT-s-OFDM QPSK	1	136			23.16			24.50
100		1	271			22.42			
100		135	1			23.45			
100		135	67			23.21			
100	DFT-s-OFDM QPSK	135	136			23.09			24.50
100		270	0			22.93			
100	DFT-s-OFDM 16QAM	1	1			21.57			22.50
100	DFT-s-OFDM 64QAM	1	1			20.11			21.00
100	DFT-s-OFDM 256QAM	1	1			18.45			19.50
100	CP-OFDM QPSK	1	1			22.11			23.00
100	CP-OFDM 16QAM	1	1			20.63			21.50
100	CP-OFDM 64QAM	1	1			19.54			20.50
100	CP-OFDM 256QAM	1	1			16.33			17.50
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	22.71	22.66	22.63	22.59	22.59	24.50
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	22.90	22.83	22.80	22.74	22.67	24.50
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	23.01	22.94	22.87	22.77	22.71	24.50
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	23.07	22.97	22.87	22.72	22.75	24.50
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	23.24	23.16	23.02	22.93	22.90	24.50
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	22.97	22.80	22.66	22.60	22.42	24.50
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	23.26	23.03	22.89	22.68	22.57	24.50
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	23.32	23.07	22.96	22.69	22.70	24.50
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	23.17	23.10	22.99	22.69	22.82	24.50

n77(3700-3980MHz) (PC2)_SCS 15KHz									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				648334	652168	656000	659832	663666	24.50
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM PI/2 BPSK	1	1	23.16	23.32	23.22	23.40	23.15	24.50
50		1	135	23.70	23.36	23.64	23.56	23.45	
50		1	268	23.37	23.32	23.40	23.22	23.40	
50		135	1	23.52	23.35	23.42	23.62	23.39	24.50
50		135	67	23.73	23.38	23.70	23.61	23.49	
50		135	135	23.59	23.37	23.52	23.40	23.46	
50	DFT-s-OFDM QPSK	270	0	23.69	23.38	23.68	23.61	23.50	24.50
50		1	1	23.18	23.31	23.76	23.40	23.17	
50		1	135	23.74	23.37	23.68	23.58	23.47	
50		1	268	23.42	23.29	23.36	23.20	23.36	24.50
50		135	1	23.54	23.35	23.65	23.52	23.41	
50		135	67	23.21	23.36	23.55	23.35	23.55	
50	DFT-s-OFDM 16QAM	135	135	23.60	23.43	23.55	23.40	23.48	24.50
50		270	0	23.70	23.39	23.70	23.62	23.49	
50		1	1	22.04	22.15	22.09	22.51	22.25	23.50
50	DFT-s-OFDM 64QAM	1	1	20.67	20.76	20.66	20.83	20.51	21.50
50	DFT-s-OFDM 256QAM	1	1	18.71	18.93	18.81	18.74	18.50	19.50
50	CP-OFDM QPSK	1	1	22.62	22.78	22.71	22.87	22.62	23.50
50	CP-OFDM 16QAM	1	1	21.08	21.13	21.29	21.56	21.32	22.50
50	CP-OFDM 64QAM	1	1	19.90	20.14	20.11	20.08	19.83	21.00
50	CP-OFDM 256QAM	1	1	16.79	16.91	16.85	16.75	16.48	18.00
Channel				648000	652000	656000	660000	664000	24.50
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	22.79	22.88	22.87	23.13	22.90	24.50
Channel				647334	651668	656000	660332	664666	24.50
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	23.06	23.14	23.30	23.26	23.46	24.50
Channel				647168	651584	656000	660416	664832	24.50
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	23.08	23.13	23.32	23.19	23.54	24.50
Channel				647000	651500	656000	660500	665000	24.50
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	23.13	23.18	23.43	23.22	23.64	24.50

n77(3700-3980MHz) (PC2)_SCS 30KHz									
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	24.50
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	22.46	22.59	22.58	22.82	22.22	24.50
100		1	136	23.46	23.44	23.66	23.48	22.94	
100		1	271	22.73	22.87	22.77	22.71	22.63	
100		135	1	23.45	23.19	23.24	23.29	23.36	
100		135	67	23.43	23.48	23.66	23.62	23.49	
100		135	136	23.15	23.26	23.21	23.29	23.59	
100	DFT-s-OFDM QPSK	270	0	23.25	23.34	23.51	23.54	23.42	24.50
100		1	1	23.52	23.47	23.79	23.64	23.59	
100		1	136	22.44	22.67	22.62	22.34	22.26	
100		1	271	22.73	22.91	22.81	22.25	22.67	
100		135	1	23.45	23.49	23.73	23.65	23.52	
100		135	67	23.26	23.23	23.36	23.24	23.22	
100	DFT-s-OFDM 16QAM	135	136	23.17	23.26	23.16	23.33	23.64	24.50
100		270	0	23.29	23.36	23.57	23.57	23.47	
100		1	1	21.45	21.71	21.71	21.36	21.28	
100		1	1	19.95	20.01	20.11	20.26	20.08	
100	DFT-s-OFDM 64QAM	1	1	18.35	18.55	18.35	17.91	17.81	19.50
100	DFT-s-OFDM 256QAM	1	1	18.35	18.55	18.35	17.91	17.81	19.50
100	CP-OFDM QPSK	1	1	21.88	22.08	22.13	21.76	21.68	23.00
100	CP-OFDM 16QAM	1	1	20.45	20.63	20.49	20.40	20.27	21.50
100	CP-OFDM 64QAM	1	1	19.23	19.46	19.49	19.22	19.13	20.00
100	CP-OFDM 256QAM	1	1	16.30	16.51	16.26	15.88	15.78	17.50
Channel				649666	652834	656000	659166	662332	24.50
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	23.36	23.24	23.37	23.68	23.36	24.50
Channel				649334	652668	656000	659332	662666	24.50
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	23.35	23.55	23.15	23.28	23.58	24.50
Channel				649000	652500	656000	659500	663000	24.50
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	22.90	23.06	23.10	23.02	23.39	24.50
Channel				648668	652334	656000	659666	663332	24.50
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	23.19	23.04	23.07	22.99	22.91	24.50
Channel				648334	652168	656000	659832	663666	24.50
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	23.15	23.24	23.27	23.27	23.20	24.50
Channel				648000	652000	656000	660000	664000	24.50
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	22.85	22.96	23.01	23.03	23.07	24.50
Channel				647334	651668	656000	660332	664666	24.50
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	23.11	23.18	23.34	23.29	23.48	24.50
Channel				647168	651584	656000	660416	664832	24.50
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	23.17	23.24	23.43	23.30	23.65	24.50
Channel				647000	651500	656000	660500	665000	24.50
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	23.23	23.31	23.54	23.36	23.57	24.50

n78(3450-3550MHz) (PC2)_SCS 15KHz									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				631668	632500	633334	634166	635000	24.00
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM PI/2 BPSK	1	1	23.31	23.18	23.04	22.94	22.89	24.00
50		1	135	23.19	23.15	23.10	22.89	22.78	
50		1	268	22.97	22.86	22.65	22.74	22.99	
50		135	1	23.26	23.12	23.06	23.01	22.83	24.00
50		135	67	23.28	23.17	23.15	22.97	22.85	
50		135	135	23.16	23.15	22.93	22.80	22.88	
50	DFT-s-OFDM QPSK	270	0	23.15	23.13	23.08	22.87	22.79	24.00
50		1	1	23.33	23.21	23.40	23.19	23.33	
50		1	135	23.23	23.16	23.14	23.05	22.82	
50		1	268	23.04	22.84	22.73	22.83	23.02	24.00
50		135	1	23.31	23.15	23.05	23.00	22.86	
50		135	67	23.27	23.20	23.16	22.97	22.81	
50	DFT-s-OFDM 16QAM	135	135	23.18	23.20	22.98	22.83	22.89	24.00
50		270	0	23.17	23.14	23.06	22.88	22.84	
50		1	1	22.25	22.16	22.01	21.86	21.87	23.00
50	DFT-s-OFDM 64QAM	1	1	20.77	20.75	20.45	20.40	20.38	21.50
50	DFT-s-OFDM 256QAM	1	1	19.14	19.03	18.76	18.63	18.78	20.00
50	CP-OFDM QPSK	1	1	22.73	22.45	22.49	22.50	22.36	23.00
50	CP-OFDM 16QAM	1	1	21.50	20.96	21.24	21.12	21.12	22.00
50	CP-OFDM 64QAM	1	1	20.03	19.88	19.70	19.60	19.63	21.00
50	CP-OFDM 256QAM	1	1	16.93	16.81	16.64	16.55	16.53	18.00
Channel				631334	636672	633334	634334	635332	24.00
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.02	22.41	22.71	22.65	22.54	24.00
Channel				630668	632000	633334	634668	636000	24.00
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	23.54	23.32	23.06	22.90	22.73	24.00
Channel				630500	631916	633334	634750	636166	24.00
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	23.50	23.31	23.13	22.80	22.87	24.00
Channel				630334	631834	633334	634834	636332	24.00
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	23.31	23.35	23.23	22.72	22.93	24.00

n78(3450-3550MHz) (PC2)_SCS 30KHz									
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			22.69			24.50
100		1	136			23.15			
100		1	271			22.49			
100		135	1			23.12			24.00
100		135	67			22.96			
100		135	136			22.69			
100	DFT-s-OFDM QPSK	270	0			22.95			24.50
100		1	1			23.54			
100		1	136			23.15			
100		1	271			23.06			24.00
100		135	1			23.17			
100		135	67			23.03			
100		135	136			22.77			
100		270	0			23.01			
100	DFT-s-OFDM 16QAM	1	1			21.86			23.00
100	DFT-s-OFDM 64QAM	1	1			20.18			21.00
100	DFT-s-OFDM 256QAM	1	1			18.51			19.50
100	CP-OFDM QPSK	1	1			22.19			23.00
100	CP-OFDM 16QAM	1	1			20.81			21.50
100	CP-OFDM 64QAM	1	1			19.61			20.50
100	CP-OFDM 256QAM	1	1			16.37			17.50
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	22.88	22.83	22.74	22.75	22.65	24.50
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	23.08	22.95	22.93	22.84	22.80	24.50
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	23.21	23.13	23.00	22.94	22.85	24.50
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	23.06	23.01	22.89	22.77	22.79	24.50
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	23.33	23.15	23.01	22.99	22.89	24.50
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.12	22.38	22.79	22.70	22.50	24.50
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	23.44	23.25	23.06	22.90	22.73	24.50
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	23.53	23.36	23.20	22.82	22.83	24.50
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	23.30	23.29	23.12	22.85	23.00	24.50

n78(3700-3800MHz) (PC2)_SCS 15KHz									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				648334	649166	650000	650834	651666	24.50
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM PI/2 BPSK	1	1	23.06	23.30	23.44	23.33	23.22	24.50
50		1	135	23.62	23.54	23.38	23.35	23.28	
50		1	268	23.25	23.21	23.13	23.17	23.27	
50		135	1	23.42	23.62	23.50	23.43	23.32	24.50
50		135	67	23.68	23.58	23.45	23.36	23.33	
50		135	135	23.49	23.37	23.30	23.27	23.29	
50	DFT-s-OFDM QPSK	270	0	23.63	23.49	23.39	23.36	23.29	24.50
50		1	1	23.59	23.50	23.72	23.61	23.63	
50		1	135	23.15	23.58	23.43	23.34	23.31	
50		1	268	23.30	23.22	23.20	23.19	23.30	24.50
50		135	1	23.54	23.62	23.70	23.59	23.52	
50		135	67	23.37	23.60	23.51	23.41	23.38	
50	DFT-s-OFDM 16QAM	135	135	23.58	23.40	23.33	23.30	23.31	24.50
50		270	0	23.62	23.51	23.44	23.40	23.30	
50		1	1	22.17	22.56	22.85	22.62	22.49	23.50
50	DFT-s-OFDM 64QAM	1	1	20.44	20.64	20.90	20.69	20.59	22.50
50	DFT-s-OFDM 256QAM	1	1	18.78	18.95	19.17	19.01	18.90	19.50
50	CP-OFDM QPSK	1	1	22.45	22.63	22.77	22.64	23.19	24.00
50	CP-OFDM 16QAM	1	1	21.33	21.18	21.32	21.25	21.11	23.00
50	CP-OFDM 64QAM	1	1	19.59	20.05	20.17	20.12	19.98	22.00
50	CP-OFDM 256QAM	1	1	16.66	16.89	17.12	16.98	16.86	18.00
Channel				648000	649000	650000	651000	652000	24.50
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	22.81	23.04	23.15	22.97	22.83	24.50
Channel				647334	648666	650000	651334	652666	24.50
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	23.22	23.57	23.44	23.32	23.22	24.50
Channel				647168	648584	650000	651416	652832	24.50
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	23.24	23.55	23.39	23.32	23.22	24.50
Channel				647000	648500	650000	651500	653000	24.50
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	23.22	23.68	23.42	23.29	23.28	24.50

n78(3700-3800MHz) (PC2)_SCS 30KHz									
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			
Frequency (MHz)						3750			
100	DFT-s-OFDM Pi/2 BPSK	1	1			22.50			24.50
100		1	136			23.50			
100		1	271			22.75			
100		135	1			23.50			24.50
100		135	67			23.50			
100		135	136			23.20			
100	DFT-s-OFDM QPSK	270	0			23.32			24.50
100		1	1			23.73			
100		1	136			23.48			
100		1	271			22.75			24.50
100		135	1			23.59			
100		135	67			23.52			
100	DFT-s-OFDM 16QAM	135	136			23.24			24.50
100		270	0			23.33			
100		1	1			21.61			23.50
100	DFT-s-OFDM 64QAM	1	1			19.84			22.50
100	DFT-s-OFDM 256QAM	1	1			18.26			19.50
100	CP-OFDM QPSK	1	1			22.04			24.00
100	CP-OFDM 16QAM	1	1			20.54			23.00
100	CP-OFDM 64QAM	1	1			19.45			22.00
100	CP-OFDM 256QAM	1	1			16.16			18.00
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	22.63	22.65	22.68	22.73	22.78	24.50
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	22.91	22.94	23.01	23.10	23.16	24.50
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	23.01	23.16	23.25	23.35	23.39	24.50
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	22.86	23.02	23.15	23.19	23.18	24.50
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	23.05	23.29	23.42	23.31	23.19	24.50
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	22.80	23.08	23.17	22.99	22.96	24.50
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	23.20	23.65	23.43	23.29	23.21	24.50
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	23.32	23.63	23.48	23.36	23.32	24.50
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	23.31	23.52	23.50	23.42	23.41	24.50

CA_41C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	22.93	24.00
40620	40529	40712	QPSK	1	0	0	0	1	0	23.02	24.00
41490	41292	41490	QPSK	1	0	0	0	1	0	22.97	24.00
39750	39750	39948	16QAM	1	0	0	0	1	0	22.18	23.00
40620	40529	40712	16QAM	1	0	0	0	1	0	22.23	23.00
41490	41292	41490	16QAM	1	0	0	0	1	0	22.10	23.00
39750	39750	39948	64QAM	1	0	0	0	1	0	21.19	22.00
40620	40529	40712	64QAM	1	0	0	0	1	0	21.26	22.00
41490	41292	41490	64QAM	1	0	0	0	1	0	21.12	22.00
39750	39750	39948	256QAM	1	0	0	0	1	0	17.89	19.00
40620	40529	40712	256QAM	1	0	0	0	1	0	17.92	19.00
41490	41292	41490	256QAM	1	0	0	0	1	0	17.81	19.00
39750	39750	39948	QPSK	50	0	0	0	1	0	21.82	23.00
40620	40529	40712	QPSK	50	0	0	0	1	0	21.93	23.00
41490	41292	41490	QPSK	50	0	0	0	1	0	21.76	23.00

2CC LTE Uplink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Tune-up limit(dBm)
inter-band	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	22.69	23.5
	CA_2A-13A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	22.87	23.5
	CA_2A-48A	2	20	18700	1860	QPSK/1#0	48	20	56640	3690	22.81	23.5
	CA_48A-66A	48	20	55340	3560	QPSK/1#0	66	20	132572	1770	21.12	22.5

2CC LTE Downlink											
CA Configuration	PCC					SCC				Power	
	Band	BW (MHz)	UL Channel	UL Freq (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Freq (MHz)	CA TX (dBm)	Rel 8 TX (dBm)
CA_2C	2	20	18902	1880.2	QPSK/1W0	2	20	19100	1900	22.58	23.5
CA_2A-2A	2	20	18700	1860	QPSK/1W0	2	20	19100	1900	22.56	23.5
CA_2A-5A	2	20	18700	1860	QPSK/1W0	5	10	20600	844	22.64	23.5
CA_2A-13A	2	20	18700	1860	QPSK/1W0	13	10	23230	782	22.81	23.5
CA_2A-48A	2	20	18700	1860	QPSK/1W0	48	20	55340	3560	22.79	23.5
CA_2A-66A	2	20	18700	1860	QPSK/1W0	66	20	67236	2190	23.01	23.5
CA_2A-71A	2	20	18700	1860	QPSK/1W0	71	20	133297	680.5	22.71	23.5
CA_5A-48A	5	10	20450	829	QPSK/1W0	48	20	56640	680.5	23.01	24
CA_5A-66A	5	10	20450	829	QPSK/1W0	66	20	66886	2155	23.02	24
CA_13A-48A	13	10	23230	782	QPSK/1W0	48	20	56640	3690	23.39	24
CA_13A-66A	13	10	23230	782	QPSK/1W0	66	20	66886	2155	23.24	24
CA_48A-66A	48	20	55340	3560	QPSK/1W0	66	20	66886	2155	21.18	22
CA_41C	41	20	40521	2583.1	QPSK/1W0	41	20	40719	2602.9	23.21	24
CA_48C	48	20	55891	3615.1	QPSK/1W0	48	20	56089	3634.9	21	22
CA_66A-66A	66	20	132072	1720	QPSK/1W0	66	20	66886	2155	23.01	24
CA_66A-71A	66	20	132072	1720	QPSK/1W0	71	20	133297	680.5	22.98	24
CA_66B	66	10	132373	1750.1	QPSK/1W0	66	10	132472	1760	23.03	24
CA_66C	66	20	132072	1720	QPSK/1W0	66	20	132270	1739.8	22.89	24

3CC LTE Downlink															
CA Configuration	PCC					SCC1				SCC2				Power	
	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	CA TX (dbm)	Rel.8 TX (dbm)
CA_41D	41	20	40437	2574.7	QPSK/1W0	41	20	40620	2593	41	20	40803	2611.3	23.34	24
CA_48D	48	20	56244	3650.4	QPSK/1W0	48	20	56442	3670.2	48	20	56640	3690	21.02	22
CA_2A-66C	2	20	18902	1880.2	QPSK/1W0	66	20	67038	2170.2	66	20	67236	2190	22.57	23.5
CA_2C-66A	2	20	18801	1870.1	QPSK/1W0	2	20	18999	1889.9	66	20	67236	2190	22.67	23.5
CA_2A-48C	2	20	18902	1880.2	QPSK/1W0	48	20	55891	3615.1	48	20	56089	3634.9	22.62	23.5
CA_13A-48C	13	10	23230	782	QPSK/1W0	48	20	55891	3615.1	48	20	56089	3634.9	22.61	23.5
CA_48C-66A	48	20	55891	3615.1	QPSK/1W0	48	20	56089	3634.9	66	20	67236	2190	20.98	22
CA_2A-2A-5A	2	20	18700	1860	QPSK/1W0	2	20	19100	1900	5	10	20600	844	22.5	23.5
CA_2A-2A-13A	2	20	18700	1860	QPSK/1W0	2	20	19100	1900	13	10	23230	782	22.47	23
CA_2A-2A-66A	2	20	18700	1860	QPSK/1W0	2	20	19100	1900	66	20	67236	2190	22.48	23
CA_2A-5A-48A	2	20	18700	1860	QPSK/1W0	5	10	20600	844	48	20	56640	3690	22.38	23
CA_2A-5A-66A	2	20	18700	1860	QPSK/1W0	5	10	20600	844	66	20	67236	2190	22.61	23.5
CA_2A-13A-66A	2	20	18700	1860	QPSK/1W0	13	10	23230	782	66	20	67236	2190	22.71	23.5
CA_2A-13A-48A	2	20	18700	1860	QPSK/1W0	13	10	23230	782	48	20	55340	3560	22.55	23.5
CA_2A-48A-66A	2	20	18700	1860	QPSK/1W0	48	20	55340	3560	66	20	67236	2190	22.58	23.5
CA_2A-66A-66A	2	20	18700	1860	QPSK/1W0	66	20	66886	2155	66	20	67236	2190	22.73	23.5
CA_2A-66A-71A	2	20	18700	1860	QPSK/1W0	66	20	67236	2190	71	20	133297	680.5	22.68	23.5
CA_5A-48A-66A	5	10	20450	829	QPSK/1W0	48	20	56640	3690	66	20	67236	2190	23.07	24
CA_5A-66A-66A	5	10	20450	829	QPSK/1W0	66	20	66886	2155	66	20	67236	2190	23.01	24
CA_13A-48A-66A	13	10	23230	782	QPSK/1W0	48	20	56640	3690	66	20	67236	2190	23.46	24

4CC LTE Downlink																			
CA Configuration	PCC					SCC1				SCC2				SCC3				Power	
	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
CA_48E	48	20	55340	3560	QPSK/1W0	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	21.04	22
CA_2A-2A-66C	2	20	18700	1860	QPSK/1W0	2	20	19100	1900	66	20	67038	2170.2	66	20	67236	2190	22.63	23.5
CA_2A-5A-48C	2	20	18700	1860	QPSK/1W0	5	10	20600	844	48	20	55891	3615.1	48	20	56089	3634.9	22.58	23.5
CA_2A-66C-71A	2	20	18700	1860	QPSK/1W0	66	20	67038	2170.2	66	20	67236	2190	71	20	133297	680.5	22.57	23.5
CA_2A-2A-5A-66A	2	20	18700	1860	QPSK/1W0	2	20	19100	1900	5	10	20600	844	66	20	67236	2190	22.48	23.5
CA_2A-2A-13A-66A	2	20	18700	1860	QPSK/1W0	2	20	19100	1900	13	10	23230	782	66	20	67236	2190	22.23	23.5
CA_2A-5A-66A-66A	2	20	18700	1860	QPSK/1W0	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	22.56	23.5
CA_2A-13A-66A-66A	2	20	18700	1860	QPSK/1W0	13	10	23230	782	66	20	66886	2155	66	20	67236	2190	22.42	23.5

5CC LTE Downlink																							
CA		PCC					SCC1				SCC2				SCC3			SCC4			Power		
Configuration	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	CA TX (dBm)	Rel 8 TX (dBm)
CA_48E-66A	48	20	55340	3560	QPSK/1W0	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	66	20	67236	2190	21.08	22.00



2CC NR Uplink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Fre. (MHz)	UL Channel	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Fre. (MHz)	UL Channel	Measured Power(dBm)	Tune-up limit(dBm)
	n25A-n48A	25	40	1882.5	376500	DFT-S-OFDM QPSK/1#1	48	100	3624.99	641666	22.48	23
	n25A-n71A	25	40	1882.5	376500	DFT-S-OFDM QPSK/1#1	71	20	680.5	136100	22.65	23.5
	n25A-n77A	25	40	1882.5	376500	DFT-S-OFDM QPSK/1#1	77	100	3675	645000	22.47	23
	n41A-n66A	41	100	2592.99	518598	DFT-S-OFDM QPSK/1#1	66	40	1745	349000	23.24	24
	n41A-n71A	41	100	2592.99	518598	DFT-S-OFDM QPSK/1#1	71	20	680.5	136100	23.21	24
	n66A-n71A	66	40	1745	349000	DFT-S-OFDM QPSK/1#1	71	20	680.5	136100	22.76	23.5
	n66A-n77A	66	40	1745	349000	DFT-S-OFDM QPSK/1#1	77	100	3675	645000	22.83	23.5
	n48A-n66A	48	100	3624.99	641666	DFT-S-OFDM QPSK/1#1	66	40	1745	349000	23.31	24



2CC NR Downlink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Fre. (MHz)	UL Channel	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Fre. (MHz)	UL Channel	Measured Power (dBm)	Tune-up limit (dBm)
Inter-band	n2A_n2A	2	20	1880	376000	DFT-S-OFDM QPSK/1#1	2	20	1880	376000	22.36	23
	n25A_n25A	25	40	1882.5	376500	DFT-S-OFDM QPSK/1#1	25	40	1882.5	376500	22.61	23.5
	n25A_N48A	25	40	1882.5	376500	DFT-S-OFDM QPSK/1#1	48	100	3624.99	641666	22.34	23
	n25A_n71A	25	40	1882.5	376500	DFT-S-OFDM QPSK/1#1	71	20	680.5	136100	22.42	23
	n25A_n77A	25	40	1882.5	376500	DFT-S-OFDM QPSK/1#1	77	100	3750	650000	22.14	23
	n41A_n41A	41	100	2592.99	518598	DFT-S-OFDM QPSK/1#1	41	100	2592.99	518598	22.72	23.5
	n41A_n66A	41	100	2592.99	518598	DFT-S-OFDM QPSK/1#1	66	40	1745	349000	22.63	23.5
	n41A_n71A	41	100	2592.99	518598	DFT-S-OFDM QPSK/1#1	71	20	680.5	136100	22.76	23.5
	n41A_n77A	41	100	2592.99	518598	DFT-S-OFDM QPSK/1#1	77	100	3750	650000	22.47	23.5
	n48A_n48A	48	100	3624.99	641666	DFT-S-OFDM QPSK/1#1	48	100	3624.99	641666	22.24	23
	n48A_n66A	48	100	3624.99	641666	DFT-S-OFDM QPSK/1#1	66	40	1745	349000	22.41	23
	n66A_n66A	66	40	1745	349000	DFT-S-OFDM QPSK/1#1	66	40	1745	349000	22.26	23
	n66A_n71A	66	40	1745	349000	DFT-S-OFDM QPSK/1#1	71	20	680.5	136100	22.47	23
	n66A_n77A	66	40	1745	349000	DFT-S-OFDM QPSK/1#1	77	100	3750	650000	22.24	23
	n71A_n71A	71	20	680.5	136100	DFT-S-OFDM QPSK/1#1	71	20	680.5	136100	22.28	23
	n71A_n77A	71	20	680.5	136100	DFT-S-OFDM QPSK/1#1	77	100	3750	650000	22.69	23.5
	n77A_n77A	78	100	3750	65000	DFT-S-OFDM QPSK/1#1	78	100	3750	65000	22.5	23.5
	n78A_n78A	78	100	3750	65000	DFT-S-OFDM QPSK/1#1	78	100	3750	65000	22.32	23

Reduced Power

Band 2 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	16
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	15.06	14.92	14.73	15
20	QPSK	1	49	15.02	14.96	14.93	
20	QPSK	1	99	14.95	14.90	14.85	
20	QPSK	50	0	13.94	13.92	13.60	
20	QPSK	50	24	13.83	13.73	13.79	15
20	QPSK	50	50	13.93	13.85	13.76	
20	QPSK	100	0	13.87	13.83	13.56	
20	16QAM	1	0	13.90	13.90	13.89	
20	16QAM	1	49	13.88	13.76	13.91	15
20	16QAM	1	99	13.95	13.83	13.82	
20	16QAM	50	0	13.00	13.04	12.93	
20	16QAM	50	24	13.02	12.97	12.86	
20	16QAM	50	50	13.03	12.96	12.92	14
20	16QAM	100	0	12.93	12.90	12.94	
20	64QAM	1	0	12.96	12.93	12.92	
20	64QAM	1	49	12.90	12.81	12.79	
20	64QAM	1	99	12.83	12.74	12.85	14
20	64QAM	50	0	11.97	12.03	12.03	
20	64QAM	50	24	11.94	11.97	11.97	
20	64QAM	50	50	11.98	12.08	11.92	
20	64QAM	100	0	11.90	11.87	11.93	11
20	256QAM	1	0	9.66	9.66	9.50	
20	256QAM	1	49	9.58	9.62	9.58	
20	256QAM	1	99	9.55	9.68	9.50	
20	256QAM	50	0	9.45	9.61	9.60	11
20	256QAM	50	24	9.70	9.35	9.53	
20	256QAM	50	50	9.78	9.56	9.65	
20	256QAM	100	0	9.69	9.53	9.53	
Channel				1867.5	18900	19125	16
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	14.94	14.81	14.71	15
15	QPSK	1	37	15.00	14.88	14.79	
15	QPSK	1	74	14.92	14.83	14.75	
15	QPSK	36	0	13.89	13.83	13.49	
15	QPSK	36	20	13.76	13.70	13.73	15
15	QPSK	36	39	13.83	13.72	13.68	
15	QPSK	75	0	13.75	13.79	13.43	
15	16QAM	1	0	13.73	13.77	13.81	
15	16QAM	1	37	13.95	13.83	13.81	15
15	16QAM	1	74	13.87	13.81	13.95	
15	16QAM	36	0	12.81	12.94	13.03	
15	16QAM	36	20	13.03	13.05	12.72	
15	16QAM	36	39	12.83	12.79	13.06	14
15	16QAM	75	0	13.03	12.97	12.86	
15	64QAM	1	0	13.04	12.80	12.90	
15	64QAM	1	37	12.70	12.85	12.84	
15	64QAM	1	74	12.78	12.69	13.00	13
15	64QAM	36	0	11.84	11.90	11.86	
15	64QAM	36	20	12.01	11.98	11.87	
15	64QAM	36	39	11.78	12.21	11.76	
15	64QAM	75	0	12.00	11.75	12.03	11
15	256QAM	1	0	9.73	9.80	9.65	
15	256QAM	1	37	9.61	9.62	9.68	
15	256QAM	1	74	9.36	9.51	9.64	
15	256QAM	36	0	9.59	9.53	9.58	11
15	256QAM	36	20	9.50	9.48	9.45	
15	256QAM	36	39	9.77	9.57	9.45	
15	256QAM	75	0	9.63	9.45	9.62	
Channel				18650	18900	19150	16
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	15.02	14.90	14.63	15
10	QPSK	1	25	15.01	14.95	14.82	
10	QPSK	1	49	14.94	14.79	14.74	
10	QPSK	25	0	13.81	13.84	13.58	
10	QPSK	25	12	13.82	13.66	13.71	15
10	QPSK	25	25	13.88	13.77	13.63	
10	QPSK	50	0	13.82	13.80	13.50	
10	16QAM	1	0	13.79	13.81	13.80	
10	16QAM	1	25	13.84	13.78	14.00	15
10	16QAM	1	49	14.08	13.67	13.63	
10	16QAM	25	0	12.88	13.05	12.75	
10	16QAM	25	12	12.85	13.07	12.94	
10	16QAM	25	25	13.04	12.96	12.86	14
10	16QAM	50	0	12.99	13.01	12.77	
10	64QAM	1	0	13.04	12.79	13.04	
10	64QAM	1	25	12.87	12.86	12.75	
10	64QAM	1	49	12.82	12.69	12.99	14
10	64QAM	25	0	11.91	11.83	11.91	
10	64QAM	25	12	11.82	11.88	12.08	
10	64QAM	25	25	11.96	12.12	11.83	
10	64QAM	50	0	11.83	11.90	11.83	11
10	256QAM	1	0	9.62	9.56	9.52	
10	256QAM	1	25	9.45	9.61	9.42	
10	256QAM	1	49	9.62	9.55	9.60	
10	256QAM	25	0	9.31	9.68	9.59	11
10	256QAM	25	12	9.76	9.39	9.66	
10	256QAM	25	25	9.66	9.49	9.49	
10	256QAM	50	0	9.78	9.33	9.66	
Channel				18625	18900	19175	16
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	14.98	14.82	14.61	15
5	QPSK	1	12	14.95	14.90	14.86	
5	QPSK	1	24	14.81	14.79	14.84	
5	QPSK	12	0	13.81	13.80	13.49	
5	QPSK	12	7	13.74	13.71	13.69	15
5	QPSK	12	13	13.90	13.74	13.67	

Band 4 (AWS Band) (dBm) 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	13.58	13.52	13.62	14.5
20	QPSK	1	49	13.60	13.50	13.54	
20	QPSK	1	99	13.47	13.44	13.58	
20	QPSK	50	0	13.10	13.14	13.16	13.5
20	QPSK	50	24	13.06	13.12	13.08	
20	QPSK	50	50	13.02	12.99	13.01	
20	QPSK	100	0	13.14	13.12	13.15	14
20	16QAM	1	0	12.93	13.04	13.12	
20	16QAM	1	49	13.10	12.94	13.01	
20	16QAM	1	99	13.05	13.00	13.03	13
20	16QAM	50	0	12.37	12.21	12.30	
20	16QAM	50	24	12.26	12.26	12.31	
20	16QAM	50	50	12.30	12.28	12.29	13
20	16QAM	100	0	12.14	12.17	12.20	
20	64QAM	1	0	11.85	11.68	11.90	
20	64QAM	1	49	11.82	11.71	11.84	13
20	64QAM	1	99	11.78	11.64	11.86	
20	64QAM	50	0	11.36	11.25	11.41	
20	64QAM	50	24	11.23	11.17	11.29	12
20	64QAM	50	50	11.15	11.30	11.27	
20	64QAM	100	0	11.12	11.20	11.33	
20	256QAM	1	0	9.16	9.28	9.17	10
20	256QAM	1	49	8.99	9.06	9.19	
20	256QAM	1	99	9.12	8.95	9.07	
20	256QAM	50	0	8.96	9.16	8.93	10
20	256QAM	50	24	9.01	9.16	9.18	
20	256QAM	50	50	9.02	9.08	9.02	
20	256QAM	100	0	9.13	8.88	9.01	
Channel			20025	20175	20325	Tune-up limit (dBm)	
Frequency (MHz)			1717.5	1732.5	1747.5		
15	QPSK	1	0	13.44	13.41	13.58	14.5
15	QPSK	1	37	13.55	13.41	13.47	
15	QPSK	1	74	13.41	13.41	13.47	
15	QPSK	36	0	12.98	13.02	13.06	13.5
15	QPSK	36	20	12.99	13.05	12.97	
15	QPSK	36	39	12.90	12.92	12.96	
15	QPSK	75	0	13.07	12.99	13.04	14
15	16QAM	1	0	13.03	13.02	13.21	
15	16QAM	1	37	13.16	13.09	13.11	
15	16QAM	1	74	13.20	13.09	13.13	13
15	16QAM	36	0	12.31	12.19	12.43	
15	16QAM	36	20	12.34	12.25	12.12	
15	16QAM	36	39	12.32	12.22	12.36	13
15	16QAM	75	0	12.23	12.01	12.12	
15	64QAM	1	0	11.88	11.61	12.00	
15	64QAM	1	37	11.63	11.64	11.65	13
15	64QAM	1	74	11.83	11.64	11.71	
15	64QAM	36	0	11.22	11.19	11.26	
15	64QAM	36	20	11.12	11.22	11.36	12
15	64QAM	36	39	11.05	11.41	11.24	
15	64QAM	75	0	11.18	11.00	11.30	
15	256QAM	1	0	9.15	9.31	9.25	9.5
15	256QAM	1	37	9.11	9.11	9.04	
15	256QAM	1	74	9.13	8.81	9.12	
15	256QAM	36	0	8.99	9.07	8.88	9.5
15	256QAM	36	20	8.85	9.21	9.30	
15	256QAM	36	39	8.82	9.01	9.15	
15	256QAM	75	0	9.11	8.84	8.87	
Channel			20000	20175	20390	Tune-up limit (dBm)	
Frequency (MHz)			1715	1732.5	1750		
10	QPSK	1	0	13.47	13.51	13.53	14.5
10	QPSK	1	25	13.57	13.40	13.51	
10	QPSK	1	49	13.44	13.30	13.53	
10	QPSK	25	0	12.98	13.13	13.15	13.5
10	QPSK	25	12	13.02	13.01	13.05	
10	QPSK	25	25	12.98	12.92	12.92	
10	QPSK	50	0	13.01	13.08	13.08	14
10	16QAM	1	0	12.91	12.89	13.25	
10	16QAM	1	25	13.13	13.07	12.81	
10	16QAM	1	49	12.96	12.88	13.06	13
10	16QAM	25	0	12.17	12.32	12.29	
10	16QAM	25	12	12.12	12.14	12.23	
10	16QAM	25	25	12.17	12.13	12.44	13
10	16QAM	50	0	12.22	12.04	12.25	
10	64QAM	1	0	11.99	11.72	11.78	
10	64QAM	1	25	11.80	11.61	11.95	13
10	64QAM	1	49	11.76	11.53	11.73	
10	64QAM	25	0	11.47	11.25	11.32	
10	64QAM	25	12	11.20	11.20	11.28	12
10	64QAM	25	25	11.20	11.19	11.33	
10	64QAM	50	0	11.05	11.16	11.31	
10	256QAM	1	0	9.22	9.28	9.15	9.5
10	256QAM	1	25	9.11	8.88	9.20	
10	256QAM	1	49	9.11	8.99	9.22	
10	256QAM	25	0	8.79	9.05	8.90	9.5
10	256QAM	25	12	8.97	9.11	9.01	
10	256QAM	25	25	9.14	9.16	8.89	
10	256QAM	50	0	9.06	8.90	9.10	
Channel			19975	20175	20375	Tune-up limit (dBm)	
Frequency (MHz)			1712.5	1732.5	1752.5		
5	QPSK	1	0	13.52	13.40	13.53	14.5
5	QPSK	1	12	13.57	13.43	13.51	
5	QPSK	1	24	13.45	13.42	13.56	
5	QPSK	12	0	12.97	13.08	13.06	13
5	QPSK	12	7	13.00	13.10	13.04	
5	QPSK	12	13	12.93	12.86	12.98	

5	QPSK	25	0	13.82	13.75	13.42	15
5	16QAM	1	0	13.92	13.95	13.84	
5	16QAM	1	12	14.03	13.58	13.75	
5	16QAM	1	24	13.84	13.92	13.68	
5	16QAM	12	0	12.93	13.11	12.98	14
5	16QAM	12	7	12.85	13.04	12.96	
5	16QAM	12	13	13.00	12.83	12.90	
5	16QAM	25	0	12.74	12.86	12.97	
5	64QAM	1	0	12.95	13.01	12.80	14
5	64QAM	1	12	12.90	12.78	12.79	
5	64QAM	1	24	12.95	12.65	12.76	
5	64QAM	12	0	11.83	11.95	11.84	
5	64QAM	12	7	11.87	11.88	11.94	13
5	64QAM	12	13	12.08	12.21	11.82	
5	64QAM	25	0	11.84	12.02	12.00	
5	256QAM	1	0	9.67	9.62	9.65	
5	256QAM	1	12	9.52	9.67	9.53	11
5	256QAM	1	24	9.66	9.61	9.60	
5	256QAM	12	0	9.52	9.72	9.71	
5	256QAM	12	7	9.56	9.22	9.55	
5	256QAM	12	13	9.71	9.60	9.64	11
5	256QAM	25	0	9.53	9.52	9.33	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	14.96	14.81	14.64	16
3	QPSK	1	8	14.88	14.88	14.80	
3	QPSK	1	14	14.90	14.83	14.76	
3	QPSK	8	0	13.84	13.87	13.57	
3	QPSK	8	4	13.74	13.65	13.72	15
3	QPSK	8	7	13.85	13.72	13.72	
3	QPSK	16	0	13.74	13.80	13.51	
3	16QAM	1	0	13.81	13.89	13.92	
3	16QAM	1	8	13.86	13.64	13.72	15
3	16QAM	1	14	13.75	13.81	13.76	
3	16QAM	8	0	12.97	12.95	12.89	
3	16QAM	8	4	12.87	12.83	12.82	
3	16QAM	8	7	13.12	13.05	13.04	14
3	16QAM	16	0	13.06	12.81	12.96	
3	64QAM	1	0	12.97	12.97	12.76	
3	64QAM	1	8	12.71	12.66	12.84	
3	64QAM	1	14	12.78	12.82	12.70	13
3	64QAM	8	0	12.09	11.86	11.93	
3	64QAM	8	4	12.00	11.90	12.03	
3	64QAM	8	7	12.13	11.94	11.88	
3	64QAM	16	0	11.96	11.84	12.07	11
3	256QAM	1	0	9.65	9.56	9.37	
3	256QAM	1	8	9.49	9.77	9.66	
3	256QAM	1	14	9.53	9.61	9.40	
3	256QAM	8	0	9.43	9.47	9.50	11
3	256QAM	8	4	9.62	9.34	9.39	
3	256QAM	8	7	9.65	9.39	9.53	
3	256QAM	16	0	9.83	9.67	9.65	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.04	14.90	14.67	16
1.4	QPSK	1	3	15.00	14.95	14.86	
1.4	QPSK	1	5	14.87	14.85	14.72	
1.4	QPSK	3	0	14.41	14.35	14.09	
1.4	QPSK	3	1	14.25	14.10	14.15	15
1.4	QPSK	3	3	14.38	14.24	14.22	
1.4	QPSK	6	0	13.85	13.70	13.49	
1.4	16QAM	1	0	13.79	13.88	13.73	
1.4	16QAM	1	3	13.86	13.61	13.91	15
1.4	16QAM	1	5	13.82	13.73	13.93	
1.4	16QAM	3	0	13.64	13.90	13.50	
1.4	16QAM	3	1	13.50	13.83	13.81	
1.4	16QAM	3	3	13.89	13.93	13.52	14
1.4	16QAM	6	0	12.98	13.04	13.09	
1.4	64QAM	1	0	13.02	12.82	13.04	
1.4	64QAM	1	3	13.02	12.64	12.80	
1.4	64QAM	1	5	12.75	12.64	12.84	14
1.4	64QAM	3	0	12.36	12.49	12.38	
1.4	64QAM	3	1	12.49	12.61	12.42	
1.4	64QAM	3	3	12.36	12.44	12.34	
1.4	64QAM	6	0	11.78	11.79	12.04	13
1.4	256QAM	1	0	9.79	9.68	9.52	
1.4	256QAM	1	3	9.51	9.51	9.70	
1.4	256QAM	1	5	9.41	9.69	9.63	
1.4	256QAM	3	0	9.41	9.62	9.40	11
1.4	256QAM	3	1	9.66	9.50	9.40	
1.4	256QAM	3	3	9.73	9.42	9.66	
1.4	256QAM	6	0	9.83	9.61	9.56	

5	QPSK	25	0	13.12	13.05	13.05	14
5	16QAM	1	0	12.95	12.94	13.03	
5	16QAM	1	12	13.05	12.75	13.05	
5	16QAM	1	24	13.07	12.82	13.03	
5	16QAM	12	0	12.19	12.03	12.12	13
5	16QAM	12	7	12.29	12.32	12.28	
5	16QAM	12	13	12.40	12.10	12.14	
5	16QAM	25	0	11.99	12.27	12.01	
5	64QAM	1	0	11.66	11.75	11.73	13
5	64QAM	1	12	11.84	11.68	11.66	
5	64QAM	1	24	11.89	11.63	11.98	
5	64QAM	12	0	11.44	11.38	11.29	
5	64QAM	12	7	11.11	11.11	11.14	12
5	64QAM	12	13	10.95	11.40	11.35	
5	64QAM	25	0	11.02	11.07	11.14	
5	256QAM	1	0	9.24	9.11	9.06	
5	256QAM	1	12	9.14	8.91	9.12	9.5
5	256QAM	1	24	9.11	8.96	9.04	
5	256QAM	12	0	8.95	9.05	8.85	
5	256QAM	12	7	8.97	9.10	9.03	
5	256QAM	12	13	8.94	9.21	9.12	9.5
5	256QAM	25	0	9.16	9.00	8.88	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	13.50	13.44	13.53	14.5
3	QPSK	1	8	13.53	13.49	13.46	
3	QPSK	1	14	13.34	13.36	13.52	
3	QPSK	8	0	13.00	13.02	13.15	
3	QPSK	8	4	12.93	13.10	13.00	13.5
3	QPSK	8	7	12.94	12.98	12.93	
3	QPSK	16	0	13.01	13.02	13.13	
3	16QAM	1	0	12.83	13.16	13.05	
3	16QAM	1	8	13.16	13.02	12.93	14
3	16QAM	1	14	13.07	12.90	13.03	
3	16QAM	8	0	12.23	12.22	12.12	
3	16QAM	8	4	12.13	12.36	12.11	
3	16QAM	8	7	12.34	12.33	12.13	13
3	16QAM	16	0	12.11	12.31	12.32	
3	64QAM	1	0	11.82	11.53	11.87	
3	64QAM	1	8	11.81	11.70	11.78	
3	64QAM	1	14	11.65	11.44	11.75	13
3	64QAM	8	0	11.24	11.34	11.44	
3	64QAM	8	4	11.15	11.05	11.31	
3	64QAM	8	7	11.05	11.34	11.33	
3	64QAM	16	0	11.17	11.08	11.48	12
3	256QAM	1	0	9.24	9.17	9.07	
3	256QAM	1	8	8.87	8.90	8.99	
3	256QAM	1	14	9.21	8.76	8.89	
3	256QAM	8	0	9.06	9.23	9.00	9.5
3	256QAM	8	4	8.94	9.25	9.12	
3	256QAM	8	7	9.11	9.05	9.00	
3	256QAM	16	0	9.24	8.86	9.15	
Channel				19967	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	13.57	13.43	13.58	14.5
1.4	QPSK	1	3	13.57	13.48	13.42	
1.4	QPSK	1	5	13.36	13.36	13.47	
1.4	QPSK	3	0	13.00	13.01	13.10	
1.4	QPSK	3	1	13.05	13.01	13.07	13.5
1.4	QPSK	3	3	12.92	12.93	12.88	
1.4	QPSK	6	0	13.09	13.01	13.12	
1.4	16QAM	1	0	12.76	13.04	13.12	
1.4	16QAM	1	3	12.97	12.80	12.95	14
1.4	16QAM	1	5	12.95	13.11	13.14	
1.4	16QAM	3	0	12.90	12.78	12.84	
1.4	16QAM	3	1	12.70	12.81	12.80	
1.4	16QAM	3	3	12.83	12.59	12.91	13
1.4	16QAM	6	0	11.95	12.29	12.32	
1.4	64QAM	1	0	11.99	11.74	11.95	
1.4	64QAM	1	3	11.81	11.75	11.77	
1.4	64QAM	1	5	11.80	11.74	11.76	13
1.4	64QAM	3	0	11.90	11.73	12.01	
1.4	64QAM	3	1	11.72	11.63	11.74	
1.4	64QAM	3	3	11.60	11.72	11.78	
1.4	64QAM	6	0	11.12	11.12	11.40	12
1.4	256QAM	1	0	9.03	9.17	9.20	
1.4	256QAM	1	3	8.82	8.90	9.19	
1.4	256QAM	1	5	9.05	9.05	9.12	
1.4	256QAM	3	0	8.81	9.16	8.85	9.5
1.4	256QAM	3	1	9.06	9.17	9.28	
1.4	256QAM	3	3	8.92	9.12	8.89	
1.4	256QAM	6	0	9.26	8.91	9.06	

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Midlle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	15.98	15.76	15.95	16.5
10	QPSK	1	25	15.74	15.73	15.62	
10	QPSK	1	49	15.78	15.64	15.63	
10	QPSK	25	0	15.18	15.17	15.02	15.5
10	QPSK	25	12	14.96	15.03	15.06	
10	QPSK	25	25	15.14	15.08	15.07	
10	QPSK	50	0	15.07	15.04	14.95	15.5
10	16QAM	1	0	14.81	14.82	14.80	
10	16QAM	1	25	14.68	14.80	14.78	
10	16QAM	1	49	14.79	14.87	14.83	14.5
10	16QAM	25	0	14.00	14.09	14.07	
10	16QAM	25	12	14.01	14.02	14.10	
10	16QAM	25	25	14.02	14.01	14.06	14.5
10	16QAM	50	0	13.92	14.03	14.02	
10	64QAM	1	0	13.93	14.12	13.98	14.5
10	64QAM	1	25	13.80	13.98	13.91	
10	64QAM	1	49	13.72	13.91	14.03	
10	64QAM	25	0	12.87	13.12	13.15	13.5
10	64QAM	25	12	12.95	12.85	13.02	
10	64QAM	25	25	12.91	12.98	12.94	
10	64QAM	50	0	12.93	12.93	12.96	11.5
10	256QAM	1	0	10.63	10.85	10.77	
10	256QAM	1	25	10.50	10.57	10.77	
10	256QAM	1	49	10.48	10.77	10.69	11.5
10	256QAM	25	0	10.63	10.82	10.71	
10	256QAM	25	12	10.50	10.81	10.73	
10	256QAM	25	25	10.43	10.58	10.53	11.5
10	256QAM	50	0	10.48	10.75	10.71	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	15.90	15.68	15.85	16.5
5	QPSK	1	12	15.66	15.61	15.48	
5	QPSK	1	24	15.70	15.53	15.54	
5	QPSK	12	0	15.17	15.10	14.99	15.5
5	QPSK	12	7	14.85	14.90	15.04	
5	QPSK	12	13	15.05	15.05	15.00	
5	QPSK	25	0	14.95	15.00	14.90	15.5
5	16QAM	1	0	14.94	14.84	14.82	
5	16QAM	1	12	14.57	14.65	14.69	
5	16QAM	1	24	14.91	14.86	14.72	14.5
5	16QAM	12	0	14.06	14.14	14.22	
5	16QAM	12	7	13.88	14.11	13.97	
5	16QAM	12	13	13.93	14.11	14.15	14.5
5	16QAM	25	0	14.01	14.00	13.93	
5	64QAM	1	0	13.83	14.19	13.92	
5	64QAM	1	12	13.71	13.96	13.97	14.5
5	64QAM	1	24	13.75	13.94	13.99	
5	64QAM	12	0	12.87	13.05	13.02	
5	64QAM	12	7	12.80	12.96	13.09	13.5
5	64QAM	12	13	12.93	12.91	12.85	
5	64QAM	25	0	12.89	12.99	13.04	
5	256QAM	1	0	10.65	10.66	10.89	11.5
5	256QAM	1	12	10.52	10.50	10.77	
5	256QAM	1	24	10.49	10.66	10.60	
5	256QAM	12	0	10.58	10.71	10.58	11.5
5	256QAM	12	7	10.48	10.61	10.79	
5	256QAM	12	13	10.39	10.56	10.53	
5	256QAM	25	0	10.49	10.84	10.76	11.5
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	15.91	15.63	15.86	
3	QPSK	1	8	15.61	15.64	15.49	16.5
3	QPSK	1	14	15.64	15.62	15.62	
3	QPSK	8	0	15.05	15.03	14.88	15.5
3	QPSK	8	4	14.92	14.94	15.00	
3	QPSK	8	7	15.05	15.00	14.99	
3	QPSK	15	0	15.04	14.93	14.89	15.5
3	16QAM	1	0	14.84	14.77	14.91	
3	16QAM	1	8	14.59	14.71	14.72	
3	16QAM	1	14	14.68	14.80	14.80	14.5
3	16QAM	8	0	14.07	13.89	14.08	
3	16QAM	8	4	14.11	13.87	14.24	
3	16QAM	8	7	14.07	14.08	14.21	14.5
3	16QAM	15	0	13.91	13.99	14.00	
3	64QAM	1	0	13.78	13.83	14.02	
3	64QAM	1	8	13.67	13.92	13.84	14.5
3	64QAM	1	14	13.85	14.05	14.16	
3	64QAM	8	0	12.80	13.15	12.97	
3	64QAM	8	4	12.84	12.89	12.90	13.5
3	64QAM	8	7	12.97	12.88	12.83	
3	64QAM	15	0	12.77	12.78	13.04	
3	256QAM	1	0	10.75	10.82	10.61	11.5
3	256QAM	1	8	10.61	10.71	10.58	
3	256QAM	1	14	10.42	10.76	10.62	
3	256QAM	8	0	10.52	10.65	10.86	11.5
3	256QAM	8	4	10.62	10.67	10.67	
3	256QAM	8	7	10.51	10.43	10.55	
3	256QAM	15	0	10.47	10.87	10.59	11.5
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	15.89	15.74	15.90	
1.4	QPSK	1	3	15.61	15.68	15.57	16.5
1.4	QPSK	1	5	15.67	15.50	15.60	
1.4	QPSK	3	0	15.63	15.60	15.42	16.5
1.4	QPSK	3	1	15.43	15.43	15.52	
1.4	QPSK	3	3	15.60	15.50	15.56	
1.4	QPSK	6	0	14.95	14.93	14.82	15.5
1.4	16QAM	1	0	14.64	14.75	14.85	

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Midlle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	20.52	20.69	20.56	21.5
10	QPSK	1	25	20.49	20.50	20.59	
10	QPSK	1	49	20.51	20.59	20.39	
10	QPSK	25	0	19.43	19.60	19.54	20.5
10	QPSK	25	12	19.42	19.48	19.47	
10	QPSK	25	25	19.37	19.44	19.46	
10	QPSK	50	0	19.51	19.63	19.56	20.5
10	16QAM	1	0	19.55	19.69	19.58	
10	16QAM	1	25	19.63	19.60	19.54	
10	16QAM	1	49	19.65	19.59	19.56	19.5
10	16QAM	25	0	18.43	18.65	18.61	
10	16QAM	25	12	18.41	18.54	18.32	
10	16QAM	25	25	18.25	18.51	18.48	19.5
10	16QAM	50	0	18.41	18.66	18.47	
10	64QAM	1	0	18.72	18.70	18.55	
10	64QAM	1	25	18.27	18.42	18.33	19.5
10	64QAM	1	49	18.35	18.40	18.47	
10	64QAM	25	0	17.67	17.65	17.61	18.5
10	64QAM	25	12	17.35	17.46	17.52	
10	64QAM	25	25	17.49	17.51	17.48	
10	64QAM	50	0	17.41	17.55	17.49	16.5
10	256QAM	1	0	15.12	15.11	15.17	
10	256QAM	1	25	15.06	15.06	14.98	
10	256QAM	1	49	14.88	14.86	14.98	16.5
10	256QAM	25	0	15.08	15.17	15.15	
10	256QAM	25	12	15.12	15.28	15.29	
10	256QAM	25	25	14.91	15.07	14.86	16.5
10	256QAM	50	0	15.02	15.08	14.87	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.43	20.49	20.43	21.5
5	QPSK	1	12	20.48	20.37	20.55	
5	QPSK	1	24	20.44	20.47	20.28	
5	QPSK	12	0	19.32	19.55	19.43	20.5
5	QPSK	12	7	19.36	19.46	19.41	
5	QPSK	12	13	19.31	19.32	19.37	
5	QPSK	25	0	19.47	19.54	19.47	20.5
5	16QAM	1	0	19.54	19.61	19.69	
5	16QAM	1	12	19.44	19.62	19.61	
5	16QAM	1	24	19.74	19.65	19.63	19.5
5	16QAM	12	0	18.40	18.63	18.50	
5	16QAM	12	7	18.35	18.43	18.45	
5	16QAM	12	13	18.36	18.58	18.32	19.5
5	16QAM	25	0	18.21	18.69	18.32	
5	64QAM	1	0	18.63	18.66	18.52	
5	64QAM	1	12	18.19	18.56	18.46	19.5
5	64QAM	1	24	18.34	18.29	18.38	
5	64QAM	12	0	17.65	17.45	17.64	18.5
5	64QAM	12	7	17.49	17.30	17.49	
5	64QAM	12	13	17.63	17.63	17.41	
5	64QAM	25	0	17.34	17.44	17.50	16.5
5	256QAM	1	0	14.98	14.91	14.99	

1.4	16QAM	1	3	14.75	14.63	14.87	15.5
1.4	16QAM	1	5	14.68	14.85	14.67	
1.4	16QAM	3	0	14.59	14.53	14.54	
1.4	16QAM	3	1	14.57	14.37	14.40	
1.4	16QAM	3	3	14.64	14.55	14.50	
1.4	16QAM	6	0	13.72	14.18	14.08	14.5
1.4	64QAM	1	0	13.78	14.08	13.93	14.5
1.4	64QAM	1	3	13.81	13.82	13.89	
1.4	64QAM	1	5	13.59	13.71	13.83	
1.4	64QAM	3	0	13.37	13.43	13.56	
1.4	64QAM	3	1	13.55	13.41	13.44	
1.4	64QAM	3	3	13.44	13.35	13.53	
1.4	64QAM	6	0	12.77	12.99	12.96	13.5
1.4	256QAM	1	0	10.56	10.95	10.78	11.5
1.4	256QAM	1	3	10.50	10.46	10.90	
1.4	256QAM	1	5	10.62	10.58	10.56	
1.4	256QAM	3	0	10.74	10.75	10.85	
1.4	256QAM	3	1	10.65	10.81	10.86	
1.4	256QAM	3	3	10.57	10.40	10.43	
1.4	256QAM	6	0	10.36	10.69	10.75	11.5

1.4	16QAM	1	3	19.71	19.73	19.44	20.5
1.4	16QAM	1	5	19.69	19.50	19.40	
1.4	16QAM	3	0	19.06	19.00	18.97	
1.4	16QAM	3	1	18.92	18.92	18.62	
1.4	16QAM	3	3	18.65	18.95	18.80	
1.4	16QAM	6	0	18.42	18.66	18.47	19.5
1.4	64QAM	1	0	18.43	18.67	18.46	19.5
1.4	64QAM	1	3	18.23	18.52	18.47	
1.4	64QAM	1	5	18.26	18.27	18.53	
1.4	64QAM	3	0	18.11	17.95	18.01	
1.4	64QAM	3	1	17.66	18.04	18.04	
1.4	64QAM	3	3	17.82	17.88	18.11	
1.4	64QAM	6	0	17.21	17.47	17.52	18.5
1.4	256QAM	1	0	15.22	15.02	15.07	16.5
1.4	256QAM	1	3	15.21	15.02	15.03	
1.4	256QAM	1	5	14.99	14.94	14.96	
1.4	256QAM	3	0	15.21	15.07	15.02	
1.4	256QAM	3	1	15.23	15.26	15.12	
1.4	256QAM	3	3	15.04	14.91	15.00	
1.4	256QAM	6	0	15.03	14.91	14.75	16.5

Band 13(700MHz Band) (dBm) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		16.70		17.5
10	QPSK	1	25		16.62		
10	QPSK	1	49		16.51		
10	QPSK	25	0		15.71		16.5
10	QPSK	25	12		15.61		
10	QPSK	25	25		15.54		
10	QPSK	50	0		15.80		16.5
10	16QAM	1	0		15.72		
10	16QAM	1	25		15.56		
10	16QAM	1	49		15.70		16.5
10	16QAM	25	0		14.73		
10	16QAM	25	12		14.70		
10	16QAM	25	25		14.63		15.5
10	16QAM	50	0		14.75		
10	64QAM	1	0		14.12		
10	64QAM	1	25		14.06		15.5
10	64QAM	1	49		13.98		
10	64QAM	25	0		13.64		
10	64QAM	25	12		13.54		14.5
10	64QAM	25	25		13.71		
10	64QAM	50	0		13.73		
10	256QAM	1	0		11.61		12.5
10	256QAM	1	25		11.56		
10	256QAM	1	49		11.47		
10	256QAM	25	0		11.43		12.5
10	256QAM	25	12		11.41		
10	256QAM	25	25		11.49		
10	256QAM	50	0		11.41		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0		16.57	16.59	17.5
5	QPSK	1	12		16.53	16.52	
5	QPSK	1	24		16.34	16.42	
5	QPSK	12	0		15.61	15.57	16.5
5	QPSK	12	7		15.50	15.48	
5	QPSK	12	13		15.42	15.52	
5	QPSK	25	0		15.65	15.73	16.5
5	16QAM	1	0		15.49	15.77	
5	16QAM	1	12		15.58	15.67	
5	16QAM	1	24		15.64	15.77	16.5
5	16QAM	12	0		14.76	14.58	
5	16QAM	12	7		14.80	14.65	
5	16QAM	12	13		14.40	14.60	15.5
5	16QAM	25	0		14.82	14.59	
5	16QAM	1	0		14.10	13.97	
5	64QAM	1	12		14.11	13.94	15.5
5	64QAM	1	24		13.78	13.80	
5	64QAM	12	0		13.60	13.60	
5	64QAM	12	7		13.64	13.39	14.5
5	64QAM	12	13		13.57	13.66	
5	64QAM	25	0		13.55	13.75	
5	256QAM	1	0		11.42	11.68	12.5
5	256QAM	1	12		11.48	11.66	
5	256QAM	1	24		11.41	11.29	
5	256QAM	12	0		11.37	11.27	12.5
5	256QAM	12	7		11.47	11.49	
5	256QAM	12	13		11.35	11.49	
5	256QAM	25	0		11.42	11.50	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23760	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.40	20.56	20.48	21.5
10	QPSK	1	25	20.32	20.25	20.40	
10	QPSK	1	49	20.37	20.27	20.45	
10	QPSK	25	0	19.55	19.61	19.53	20.5
10	QPSK	25	12	19.43	19.44	19.32	
10	QPSK	25	25	19.32	19.45	19.40	
10	QPSK	50	0	19.53	19.57	19.53	20.5
10	16QAM	1	0	19.70	19.70	19.49	
10	16QAM	1	25	19.60	19.62	19.55	
10	16QAM	1	49	19.52	19.58	19.64	19.5
10	16QAM	25	0	18.41	18.55	18.36	
10	16QAM	25	12	18.57	18.62	18.67	
10	16QAM	25	25	18.43	18.61	18.60	19.5
10	16QAM	50	0	18.57	18.66	18.56	
10	64QAM	1	0	18.68	18.69	18.40	
10	64QAM	1	25	18.43	18.41	18.42	18.5
10	64QAM	1	49	18.37	18.56	18.74	
10	64QAM	25	0	17.68	17.57	17.43	
10	64QAM	25	12	17.40	17.35	17.45	16.5
10	64QAM	25	25	17.23	17.33	17.35	
10	64QAM	50	0	17.55	17.55	17.48	
10	256QAM	1	0	15.97	15.77	16.12	16.5
10	256QAM	1	25	15.80	15.78	15.89	
10	256QAM	1	49	15.70	15.73	15.73	
10	256QAM	25	0	15.73	15.62	15.83	16.5
10	256QAM	25	12	15.77	15.67	15.76	
10	256QAM	25	25	15.74	15.65	15.81	
10	256QAM	50	0	15.67	15.58	15.65	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.26	20.43	20.43	21.5
5	QPSK	1	12	20.21	20.22	20.28	
5	QPSK	1	24	20.26	20.20	20.41	
5	QPSK	12	0	19.41	19.59	19.46	20.5
5	QPSK	12	7	19.32	19.43	19.29	
5	QPSK	12	13	19.27	19.44	19.35	
5	QPSK	25	0	19.45	19.54	19.42	20.5
5	16QAM	1	0	19.61	19.73	19.50	
5	16QAM	1	12	19.43	19.59	19.60	
5	16QAM	1	24	19.63	19.51	19.67	19.5
5	16QAM	12	0	18.31	18.56	18.27	
5	16QAM	12	7	18.57	18.55	18.61	
5	16QAM	12	13	18.52	18.53	18.72	19.5
5	16QAM	25	0	18.70	18.77	18.43	
5	64QAM	1	0	18.65	18.54	18.21	
5	64QAM	1	12	18.48	18.42	18.48	18.5
5	64QAM	1	24	18.17	18.51	18.67	
5	64QAM	12	0	17.39	17.44	17.36	
5	64QAM	12	7	17.22	17.19	17.28	16.5
5	64QAM	12	13	17.23	17.28	17.26	
5	64QAM	25	0	17.53	17.68	17.36	
5	256QAM	1	0	16.03	15.73	16.02	16.5
5	256QAM	1	12	15.77	15.64	15.96	
5	256QAM	1	24	15.82	15.61	15.75	
5	256QAM	12	0	15.87	15.47	15.93	16.5
5	256QAM	12	7	15.63	15.51	15.89	
5	256QAM	12	13	15.88	15.69	15.74	
5	256QAM	25	0	15.72	15.67	15.45	

Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	15.12	15.04	14.78	16
20	QPSK	1	49	15.05	15.06	14.97	
20	QPSK	1	99	14.90	14.91	14.67	
20	QPSK	50	0	14.03	14.02	13.80	15
20	QPSK	50	24	13.94	14.01	13.98	
20	QPSK	50	50	13.98	14.00	13.99	
20	QPSK	100	0	13.90	13.86	13.75	15
20	16QAM	1	0	14.05	13.92	14.09	
20	16QAM	1	49	14.17	14.09	14.16	
20	16QAM	1	99	14.00	14.00	14.21	14
20	16QAM	50	0	13.33	13.09	12.99	
20	16QAM	50	24	12.90	12.85	13.14	
20	16QAM	50	50	12.91	12.86	12.88	14
20	16QAM	100	0	13.08	12.92	13.00	
20	64QAM	1	0	12.77	13.16	12.83	
20	64QAM	1	49	12.74	12.75	12.86	13
20	64QAM	1	99	12.84	12.86	12.75	
20	64QAM	50	0	11.87	12.03	11.86	
20	64QAM	50	24	11.76	11.85	11.92	11
20	64QAM	50	50	11.88	11.96	11.87	
20	64QAM	100	0	12.09	11.94	11.89	
20	256QAM	1	0	9.59	9.73	9.54	11
20	256QAM	1	49	9.43	9.49	9.62	
20	256QAM	1	99	9.42	9.59	9.31	
20	256QAM	50	0	9.83	9.68	9.66	11
20	256QAM	50	24	9.48	9.64	9.51	
20	256QAM	50	50	9.42	9.60	9.58	
20	256QAM	100	0	9.36	9.53	9.48	
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	Tune-up limit (dBm)
15	QPSK	1	0	15.09	14.91	14.75	16
15	QPSK	1	37	15.02	15.01	14.90	
15	QPSK	1	74	14.81	14.90	14.61	
15	QPSK	36	0	13.94	13.93	13.73	15
15	QPSK	36	20	13.91	13.94	13.87	
15	QPSK	36	39	13.85	13.94	13.90	
15	QPSK	75	0	13.76	13.80	13.65	15
15	16QAM	1	0	13.95	13.73	14.00	
15	16QAM	1	37	14.16	14.08	14.14	
15	16QAM	1	74	13.82	13.95	14.17	14
15	16QAM	36	0	13.13	13.02	13.02	
15	16QAM	36	20	12.94	12.78	13.05	
15	16QAM	36	39	12.71	12.89	12.92	14
15	16QAM	75	0	13.00	13.07	12.95	
15	64QAM	1	0	12.68	12.96	12.88	
15	64QAM	1	37	12.79	12.55	12.99	13
15	64QAM	1	74	12.76	12.86	12.74	
15	64QAM	36	0	11.80	11.96	11.97	
15	64QAM	36	20	11.71	11.76	12.03	11
15	64QAM	36	39	11.92	11.92	12.02	
15	64QAM	75	0	12.17	11.93	11.95	
15	256QAM	1	0	9.67	9.65	9.53	11
15	256QAM	1	37	9.45	9.58	9.49	
15	256QAM	1	74	9.51	9.48	9.30	
15	256QAM	36	0	9.62	9.60	9.62	11
15	256QAM	36	20	9.28	9.70	9.43	
15	256QAM	36	39	9.37	9.47	9.60	
15	256QAM	75	0	9.45	9.60	9.41	
Channel				26090	26365	26640	
Frequency (MHz)				1855	1882.5	1910	Tune-up limit (dBm)
10	QPSK	1	0	14.99	15.00	14.72	16
10	QPSK	1	25	15.02	14.93	14.87	
10	QPSK	1	49	14.80	14.77	14.65	
10	QPSK	25	0	13.97	13.98	13.67	15
10	QPSK	25	12	13.81	13.88	13.97	
10	QPSK	25	25	13.91	13.98	13.92	
10	QPSK	50	0	13.78	13.80	13.68	15
10	16QAM	1	0	13.94	13.80	13.93	
10	16QAM	1	25	13.97	14.20	14.09	
10	16QAM	1	49	13.88	14.03	14.22	14
10	16QAM	25	0	13.08	13.19	12.93	
10	16QAM	25	12	12.96	12.83	13.27	
10	16QAM	25	25	12.91	12.94	12.95	14
10	16QAM	50	0	13.20	13.02	13.14	
10	64QAM	1	0	12.67	12.86	12.82	
10	64QAM	1	25	12.55	12.81	12.88	13
10	64QAM	1	49	12.66	12.76	12.72	
10	64QAM	25	0	11.77	11.83	11.83	
10	64QAM	25	12	11.84	11.85	11.72	11
10	64QAM	25	25	11.69	11.80	11.84	
10	64QAM	50	0	11.94	11.78	12.00	
10	256QAM	1	0	9.72	9.67	9.69	11
10	256QAM	1	25	9.53	9.61	9.50	
10	256QAM	1	49	9.34	9.48	9.44	
10	256QAM	25	0	9.66	9.52	9.75	11
10	256QAM	25	12	9.29	9.57	9.51	
10	256QAM	25	25	9.48	9.45	9.60	
10	256QAM	50	0	9.23	9.41	9.41	
Channel				26065	26365	26665	
Frequency (MHz)				1852.5	1882.5	1912.5	Tune-up limit (dBm)
5	QPSK	1	0	15.08	14.96	14.76	16
5	QPSK	1	12	14.94	15.05	14.84	
5	QPSK	1	24	14.86	14.85	14.62	
5	QPSK	12	0	13.92	13.97	13.68	15
5	QPSK	12	7	13.84	13.94	13.92	
5	QPSK	12	13	13.85	13.94	13.94	
5	QPSK	25	0	13.79	13.81	13.70	15
5	16QAM	1	0	13.85	13.82	13.99	
5	16QAM	1	0	13.85	13.82	13.99	

Band 26 for FCC (dBm) (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	16.18	16.09	16.07	17
15	QPSK	1	37	16.01	16.08	15.99	
15	QPSK	1	74	15.96	15.91	16.03	
15	QPSK	36	0	15.00	14.95	14.91	16
15	QPSK	36	20	14.99	14.82	14.90	
15	QPSK	36	39	14.87	14.98	14.82	
15	QPSK	75	0	15.02	14.96	14.92	16
15	16QAM	1	0	14.98	15.14	14.96	
15	16QAM	1	37	14.95	14.91	15.03	
15	16QAM	1	74	15.03	14.88	15.15	15
15	16QAM	36	0	14.20	14.12	14.11	
15	16QAM	36	20	14.13	14.18	14.13	
15	16QAM	36	39	14.05	13.96	14.07	15
15	16QAM	75	0	14.19	14.20	14.10	
15	64QAM	1	0	14.18	14.19	14.20	
15	64QAM	1	37	13.99	14.06	14.09	15
15	64QAM	1	74	14.16	13.96	14.01	
15	64QAM	36	0	13.10	12.94	13.13	
15	64QAM	36	20	13.06	12.99	12.97	14
15	64QAM	36	39	12.97	12.99	12.92	
15	64QAM	75	0	13.23	12.93	13.21	
15	256QAM	1	0	11.12	11.06	10.91	12
15	256QAM	1	37	10.96	11.02	10.94	
15	256QAM	1	74	10.98	10.69	10.87	
15	256QAM	36	0	11.04	10.98	11.12	12
15	256QAM	36	20	11.11	10.71	10.95	
15	256QAM	36	39	10.73	11.00	10.66	
15	256QAM	75	0	10.88	10.89	10.92	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	16.06	15.95	16.00	17
10	QPSK	1	25	15.89	15.95	15.85	
10	QPSK	1	49	15.89	15.81	15.98	
10	QPSK	25	0	14.96	14.89	14.78	16
10	QPSK	25	12	14.95	14.73	14.88	
10	QPSK	25	25	14.74	14.86	14.76	
10	QPSK	50	0	14.89	14.92	14.87	16
10	16QAM	1	0	14.88	15.05	15.00	
10	16QAM	1	25	14.94	14.79	14.93	
10	16QAM	1	49	15.01	14.93	15.18	15
10	16QAM	25	0	14.19	14.02	14.20	
10	16QAM	25	12	13.95	14.13	14.16	
10	16QAM	25	25	14.14	14.02	14.15	15
10	16QAM	50	0	14.20	14.07	13.96	
10	64QAM	1	0	14.17	14.09	14.06	
10	64QAM	1	25	14.00	13.93	14.06	15
10	64QAM	1	49	14.09	13.88	13.88	
10	64QAM	25	0	13.17	13.04	13.10	
10	64QAM	25	12	12.88	13.01	12.79	14
10	64QAM	25	25	13.11	13.00	12.98	
10	64QAM	50	0	13.05	12.78	13.14	
10	256QAM	1	0	11.12	11.13	11.06	12
10	256QAM	1	25	11.01	10.89	10.84	
10	256QAM	1	49	10.78	10.73	10.92	
10	256QAM	25	0	10.91	10.79	11.03	12
10	256QAM	25	12	11.04	10.71	10.82	
10	256QAM	25	25	10.68	10.90	10.58	
10	256QAM	50	0	10.98	10.87	10.87	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	16.04	15.96	16.00	17
5	QPSK	1	12	15.94	15.96	15.89	
5	QPSK	1	24	15.95	15.79	15.91	
5	QPSK	12	0	14.95	14.90	14.77	16
5	QPSK	12	7	14.89	14.81	14.86	
5	QPSK	12	13	14.86	14.91	14.69	
5	QPSK	25	0	14.96	14.85	14.85	16
5	16QAM	1	0	14.83	14.98	14.91	
5	16QAM	1	12	14.87	14.99	15.11	
5	16QAM	1	24	14.93	15.00	15.28	15
5	16QAM	12	0	14.26	14.07	14.01	
5	16QAM	12	7	13.94	14.13	14.20	
5	16QAM	12	13	14.00	14.04	13.95	15
5	16QAM	25	0	14.28	14.32	14.12	
5	64QAM	1	0	14.25	14.10	14.25	
5	64QAM	1	12	14.02	13.89	14.24	15
5	64QAM	1	24	14.18	14.05	13.87	
5	64QAM	12	0	12.94	13.06	13.04	
5	64QAM	12	7	12.89	13.03	12.97	14
5	64QAM	12	13	13.06	13.11	12.99	
5	64QAM	25	0	13.09	13.00	13.30	
5	256QAM	1	0	11.16	10.99	10.82	12
5	256QAM	1	12	10.98	10.93	10.90	
5	256QAM	1	24	10.97	10.66	11.00	
5	256QAM	12	0	11.03	10.86	11.13	12
5	256QAM	12	7	10.99	10.77	10.96	
5	256QAM	12	13	10.69	10.80	10.78	
5	256QAM	25	0	10.90	10.70	10.73	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	16.11	16.02	15.99	17
3	QPSK	1	8	15.98	15.99	15.87	
3	QPSK	1	14	15.85	15.85	16.00	
3	QPSK	8	0	14.86	14.92	14.86	16
3	QPSK	8	4	14.96	14.75	14.77	
3	QPSK	8	7	14.83	14.96	14.69	
3	QPSK	15	0	14.92	14.90	14.84	16
3	16QAM	1	0	14.79	15.06	15.01	

5	16QAM	1	12	14.22	13.96	14.11	15
5	16QAM	1	24	14.10	14.09	14.25	
5	16QAM	12	0	13.13	13.06	13.02	
5	16QAM	12	7	13.03	12.95	13.19	
5	16QAM	12	13	12.92	12.72	12.89	14
5	16QAM	25	0	13.17	12.84	13.11	
5	64QAM	1	0	12.87	13.01	12.77	
5	64QAM	1	12	12.60	12.71	12.74	
5	64QAM	1	24	12.71	12.75	12.80	14
5	64QAM	12	0	11.99	12.09	11.90	
5	64QAM	12	7	11.77	11.69	11.84	
5	64QAM	12	13	11.72	11.95	11.96	13
5	64QAM	25	0	12.23	11.96	11.84	
5	256QAM	1	0	9.53	9.79	9.63	
5	256QAM	1	12	9.37	9.63	9.50	11
5	256QAM	1	24	9.32	9.68	9.41	
5	256QAM	12	0	9.56	9.63	9.50	
5	256QAM	12	7	9.54	9.62	9.62	11
5	256QAM	12	13	9.24	9.67	9.52	
5	256QAM	25	0	9.20	9.39	9.42	
Channel				26055	26365	26675	Tune-up limit
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	15.11	15.00	14.81	16
3	QPSK	1	8	15.04	14.94	14.91	
3	QPSK	1	14	14.81	14.88	14.64	
3	QPSK	8	0	13.97	13.99	13.74	
3	QPSK	8	4	13.81	13.90	13.95	15
3	QPSK	8	7	13.93	13.96	13.87	
3	QPSK	15	0	13.82	13.79	13.68	
3	16QAM	1	0	14.03	14.04	13.98	
3	16QAM	1	8	14.29	14.12	14.17	15
3	16QAM	1	14	13.87	13.80	14.02	
3	16QAM	8	0	13.13	12.92	12.81	
3	16QAM	8	4	12.78	12.91	13.07	14
3	16QAM	8	7	12.79	12.94	12.97	
3	16QAM	15	0	12.88	12.91	12.81	
3	64QAM	1	0	12.75	12.99	12.66	
3	64QAM	1	8	12.63	12.56	12.71	14
3	64QAM	1	14	12.87	12.91	12.84	
3	64QAM	8	0	11.80	11.91	11.97	
3	64QAM	8	4	11.68	11.88	11.98	13
3	64QAM	8	7	12.03	11.86	11.99	
3	64QAM	15	0	12.02	11.89	12.04	
3	256QAM	1	0	9.69	9.56	9.62	
3	256QAM	1	8	9.55	9.54	9.63	11
3	256QAM	1	14	9.37	9.59	9.29	
3	256QAM	8	0	9.68	9.77	9.54	
3	256QAM	8	4	9.60	9.49	9.57	11
3	256QAM	8	7	9.38	9.63	9.41	
3	256QAM	15	0	9.50	9.44	9.50	
Channel				26047	26365	26683	Tune-up limit
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	15.07	15.02	14.67	16
1.4	QPSK	1	3	14.97	14.92	14.85	
1.4	QPSK	1	5	14.79	14.87	14.63	
1.4	QPSK	3	0	14.45	14.46	14.28	
1.4	QPSK	3	1	14.39	14.45	14.42	
1.4	QPSK	3	3	14.45	14.49	14.36	15
1.4	QPSK	6	0	13.84	13.75	13.73	
1.4	16QAM	1	0	14.07	13.96	14.12	
1.4	16QAM	1	3	14.09	14.03	14.08	
1.4	16QAM	1	5	14.13	13.81	14.20	14
1.4	16QAM	3	0	13.65	13.57	13.38	
1.4	16QAM	3	1	13.22	13.27	13.62	
1.4	16QAM	3	3	13.44	13.50	13.23	
1.4	16QAM	6	0	13.03	12.89	12.94	13
1.4	64QAM	1	0	12.59	13.00	12.95	
1.4	64QAM	1	3	12.56	12.80	12.89	
1.4	64QAM	1	5	12.69	12.85	12.64	14
1.4	64QAM	3	0	12.33	12.49	12.49	
1.4	64QAM	3	1	12.16	12.24	12.31	
1.4	64QAM	3	3	12.30	12.48	12.39	
1.4	64QAM	6	0	11.97	11.84	12.02	13.5
1.4	256QAM	1	0	9.41	9.65	9.61	
1.4	256QAM	1	3	9.25	9.30	9.47	11
1.4	256QAM	1	5	9.33	9.59	9.36	
1.4	256QAM	3	0	9.75	9.57	9.69	
1.4	256QAM	3	1	9.56	9.75	9.39	
1.4	256QAM	3	3	9.35	9.42	9.61	
1.4	256QAM	6	0	9.48	9.37	9.49	11

3	16QAM	1	8	14.95	14.73	14.87	16
3	16QAM	1	14	14.97	14.68	15.07	
3	16QAM	8	0	14.20	14.08	13.97	
3	16QAM	8	4	14.27	14.16	14.10	15
3	16QAM	8	7	13.91	13.84	13.98	
3	16QAM	15	0	14.13	14.02	14.20	
3	64QAM	1	0	14.22	14.03	14.33	
3	64QAM	1	8	14.11	13.97	14.12	15
3	64QAM	1	14	14.09	13.84	14.01	
3	64QAM	8	0	12.91	12.97	13.10	
3	64QAM	8	4	12.97	12.92	12.85	14
3	64QAM	8	7	12.98	13.02	12.92	
3	64QAM	15	0	13.05	12.99	13.25	
3	256QAM	1	0	11.13	10.94	11.00	
3	256QAM	1	8	10.89	11.17	10.75	12
3	256QAM	1	14	10.94	10.84	10.72	
3	256QAM	8	0	10.89	10.84	11.18	
3	256QAM	8	4	10.98	10.76	10.92	12
3	256QAM	8	7	10.79	10.80	10.76	
3	256QAM	15	0	10.96	10.71	10.76	
Channel				26697	26865	27033	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	16.10	16.08	16.03	17
1.4	QPSK	1	3	16.00	15.97	15.87	
1.4	QPSK	1	5	15.88	15.83	15.99	
1.4	QPSK	3	0	15.44	15.44	15.30	
1.4	QPSK	3	1	15.37	15.31	15.35	
1.4	QPSK	3	3	15.35	15.43	15.26	16
1.4	QPSK	6	0	14.98	14.92	14.82	
1.4	16QAM	1	0	14.93	14.96	14.79	
1.4	16QAM	1	3	14.79	14.83	15.06	16
1.4	16QAM	1	5	14.94	15.02	15.27	
1.4	16QAM	3	0	14.76	14.69	14.64	
1.4	16QAM	3	1	14.56	14.59	14.64	
1.4	16QAM	3	3	14.35	14.57	14.48	15
1.4	16QAM	6	0	14.01	14.11	13.98	
1.4	64QAM	1	0	14.00	14.26	14.12	
1.4	64QAM	1	3	13.98	13.89	14.07	
1.4	64QAM	1	5	14.08	14.11	13.82	15
1.4	64QAM	3	0	13.45	13.49	13.50	
1.4	64QAM	3	1	13.58	13.48	13.45	
1.4	64QAM	3	3	13.35	13.49	13.49	14
1.4	64QAM	6	0	13.28	12.98	13.36	
1.4	256QAM	1	0	10.82	11.00	10.79	
1.4	256QAM	1	3	10.77	10.97	11.04	12
1.4	256QAM	1	5	11.03	10.55	10.70	
1.4	256QAM	3	0	10.93	10.89	11.17	
1.4	256QAM	3	1	11.20	10.85	10.75	
1.4	256QAM	3	3	10.73	11.08	10.77	
1.4	256QAM	6	0	10.70	10.70	10.75	12

Band 41 (2496~2690MHz) (dBm)										
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	2548.5	2593	2636.5	2680		
20	QPSK	1	0	20.53	20.50	20.57	20.49	20.48	21.5	
20	QPSK	1	49	20.38	20.36	20.50	20.31	20.48		
20	QPSK	1	99	20.41	20.51	20.54	20.37	20.38		
20	QPSK	50	0	19.60	19.59	19.61	19.54	19.55		
20	QPSK	50	24	19.41	19.39	19.60	19.40	19.46	20.5	
20	QPSK	50	50	19.54	19.34	19.57	19.39	19.53		
20	QPSK	100	0	19.46	19.48	19.54	19.58	19.35		
20	16QAM	1	0	19.52	19.50	19.69	19.70	19.65		
20	16QAM	1	49	19.63	19.49	19.54	19.76	19.51	20.5	
20	16QAM	1	99	19.48	19.47	19.59	19.60	19.67		
20	16QAM	50	0	18.53	18.47	18.67	18.60	18.63		
20	16QAM	50	24	18.38	18.39	18.55	18.62	18.58		
20	16QAM	50	50	18.52	18.36	18.59	18.49	18.50	19.5	
20	16QAM	100	0	18.58	18.41	18.41	18.44	18.43		
20	64QAM	1	0	18.63	18.54	18.71	18.56	18.63		
20	64QAM	1	49	18.57	18.49	18.56	18.38	18.58		
20	64QAM	1	99	18.42	18.55	18.39	18.46	18.49	19.5	
20	64QAM	50	0	17.42	17.49	17.68	17.57	17.58		
20	64QAM	50	24	17.34	17.50	17.54	17.45	17.58		
20	64QAM	50	50	17.55	17.47	17.45	17.45	17.51		
20	64QAM	100	0	17.34	17.31	17.44	17.32	17.33	18.5	
20	256QAM	1	0	15.32	15.44	15.54	15.30	15.37		
20	256QAM	1	49	15.28	15.38	15.44	15.44	15.33		
20	256QAM	1	99	15.36	15.49	15.32	15.27	15.35		
20	256QAM	50	0	14.26	14.33	14.61	14.39	14.36	16.5	
20	256QAM	50	24	14.37	14.29	14.39	14.52	14.44		
20	256QAM	50	50	14.36	14.51	14.48	14.25	14.27		
20	256QAM	100	0	14.35	14.40	14.48	14.36	14.26		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.41	20.38	20.45	20.37	20.36	21.5	
15	QPSK	1	37	20.26	20.24	20.38	20.19	20.36		
15	QPSK	1	74	20.29	20.39	20.42	20.25	20.26		
15	QPSK	36	0	19.48	19.47	19.49	19.42	19.43		
15	QPSK	36	20	19.29	19.27	19.49	19.28	19.34	20.5	
15	QPSK	36	39	19.42	19.22	19.45	19.27	19.41		
15	QPSK	75	0	19.34	19.36	19.42	19.46	19.23		
15	16QAM	1	0	19.40	19.38	19.57	19.58	19.53		
15	16QAM	1	37	19.51	19.37	19.42	19.64	19.39	20.5	
15	16QAM	1	74	19.36	19.35	19.47	19.48	19.55		
15	16QAM	36	0	18.41	18.35	18.55	18.48	18.51		
15	16QAM	36	20	18.26	18.27	18.43	18.50	18.46		
15	16QAM	36	39	18.40	18.24	18.47	18.37	18.38	19.5	
15	16QAM	75	0	18.46	18.29	18.29	18.32	18.31		
15	64QAM	1	0	18.51	18.42	18.59	18.44	18.51		
15	64QAM	1	37	18.45	18.37	18.44	18.26	18.46		
15	64QAM	1	74	18.30	18.43	18.27	18.34	18.37	19.5	
15	64QAM	36	0	17.30	17.37	17.56	17.45	17.44		
15	64QAM	36	20	17.22	17.38	17.42	17.33	17.44		
15	64QAM	36	39	17.43	17.35	17.33	17.33	17.39		
15	64QAM	75	0	17.22	17.19	17.32	17.20	17.21	18.5	
15	256QAM	1	0	15.20	15.32	15.42	15.18	15.25		
15	256QAM	1	37	15.16	15.26	15.32	15.32	15.21		
15	256QAM	1	74	15.24	15.37	15.20	15.15	15.14		
15	256QAM	36	0	14.14	14.21	14.49	14.27	14.24	15.5	
15	256QAM	36	20	14.25	14.17	14.27	14.40	14.32		
15	256QAM	36	39	14.24	14.39	14.36	14.13	14.15		
15	256QAM	75	0	14.23	14.28	14.36	14.24	14.14		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.33	20.30	20.37	20.29	20.28	21.5	
10	QPSK	1	25	20.18	20.16	20.30	20.11	20.28		
10	QPSK	1	49	20.21	20.31	20.34	20.17	20.18		
10	QPSK	25	0	19.40	19.39	19.41	19.34	19.35		
10	QPSK	25	12	19.21	19.19	19.41	19.20	19.26	20.5	
10	QPSK	25	25	19.34	19.14	19.37	19.19	19.33		
10	QPSK	50	0	19.26	19.28	19.34	19.38	19.15		
10	16QAM	1	0	19.32	19.30	19.49	19.50	19.45		
10	16QAM	1	25	19.43	19.29	19.34	19.56	19.31	20.5	
10	16QAM	1	49	19.28	19.27	19.35	19.40	19.47		
10	16QAM	25	0	18.33	18.27	18.47	18.40	18.43		
10	16QAM	25	12	18.18	18.19	18.35	18.42	18.38		
10	16QAM	25	25	18.32	18.16	18.39	18.20	18.30	19.5	
10	16QAM	50	0	18.38	18.21	18.21	18.24	18.23		
10	64QAM	1	0	18.43	18.34	18.51	18.36	18.43		
10	64QAM	1	25	18.37	18.29	18.36	18.18	18.38		
10	64QAM	1	49	18.22	18.35	18.19	18.26	18.29	19.5	
10	64QAM	25	0	17.22	17.29	17.48	17.37	17.36		
10	64QAM	25	12	17.14	17.30	17.34	17.25	17.36		
10	64QAM	25	25	17.35	17.27	17.25	17.25	17.31		
10	64QAM	50	0	17.44	17.11	17.24	17.12	17.13	18.5	
10	256QAM	1	0	15.12	15.24	15.34	15.10	15.17		
10	256QAM	1	25	15.08	15.22	15.24	15.24	15.13		
10	256QAM	1	49	15.16	15.29	15.12	15.07	15.06		
10	256QAM	25	0	14.06	14.13	14.41	14.19	14.16	15.5	
10	256QAM	25	12	14.17	14.09	14.19	14.32	14.24		
10	256QAM	25	25	14.16	14.31	14.28	14.05	14.07		
10	256QAM	50	0	14.15	14.20	14.28	14.16	14.06		
Channel				39775	40198	40620	41093	41565	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.5	2593	2640.5	2687.5		
5	QPSK	1	0	20.26	20.23	20.30	20.22	20.21	21.5	
5	QPSK	1	12	20.11	20.09	20.23	20.04	20.21		
5	QPSK	1	24	20.14	20.24	20.27	20.10	20.11		
5	QPSK	12	0	19.33	19.32	19.34	19.27	19.28		
5	QPSK	12	7	19.14	19.12	19.34	19.13	19.19	20.5	
5	QPSK	12	13	19.27	19.07	19.30	19.12	19.26		
5	QPSK	25	0	19.19	19.21	19.27	19.31	19.08		
5	16QAM	1	0	19.25	19.23	19.42	19.43	19.43		
5	16QAM	1	12	19.36	19.22	19.27	19.49	19.24	20.5	
5	16QAM	1	24	19.21	19.20	19.32	19.33	19.40		
5	16QAM	12	0	18.26	18.20	18.40	18.33	18.36		
5	16QAM	12	7	18.11	18.12	18.28	18.35	18.31		
5	16QAM	12	13	18.25	18.09	18.32	18.22	18.23	19.5	
5	16QAM	25	0	18.31	18.14	18.14	18.17	18.16		
5	64QAM	1	0	18.36	18.27	18.44	18.39	18.38		
5	64QAM	1	12	18.30	18.22	18.35	18.11	18.31		
5	64QAM	1	24	18.15	18.28	18.12	18.19	18.22	18.5	
5	64QAM	12	0	17.15	17.22	17.41	17.30	17.29		
5	64QAM	12	7	17.97	17.23	17.27	17.18	17.29		
5	64QAM	12	13	17.28	17.20	17.18	17.18	17.24		
5	64QAM	25	0	17.07	17.04	17.17	17.05	17.06	16.5	
5	256QAM	1	0	15.05	15.17	15.27	15.03	15.10		
5	256QAM	1	12	15.01	15.11	15.17	15.17	15.06		
5	256QAM	1	24	15.09	15.22	15.05	15.00	14.99		
5	256QAM	12	0	13.99	14.06	14.34	14.12	14.09	15.5	
5	256QAM	12	7	14.10	14.02	14.12	14.25	14.17		
5	256QAM	12	13	14.09	14.24	14.21	13.98	14.02		
5	256QAM	25	0	14.08	14.13	14.21	13.99	13.98		

Band 66 (dBm)							
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	13.60	13.64	13.66	14.5
20	QPSK	1	49	13.64	13.61	13.53	
20	QPSK	1	99	13.48	13.49	13.55	
20	QPSK	50	0	12.88	12.76	13.03	
20	QPSK	50	24	12.84	12.67	12.98	13.5
20	QPSK	50	50	12.67	12.58	12.84	
20	QPSK	100	0	12.70	12.84	12.93	
20	16QAM	1	0	12.59	12.58	12.85	
20	16QAM	1	49	12.70	12.51	12.76	13.5
20	16QAM	1	99	12.77	12.67	12.72	
20	16QAM	50	0	11.64	11.97	11.80	
20	16QAM	50	24	11.77	11.73	11.74	
20	16QAM	50	50	11.65	11.68	11.79	12.5
20	16QAM	100	0	11.78	12.06	12.09	
20	64QAM	1	0	12.00	12.02	11.87	
20	64QAM	1	49	12.04	11.83	11.88	
20	64QAM	1	99	11.88	11.70	11.97	12.5
20	64QAM	50	0	10.86	10.87	11.05	
20	64QAM	50	24	10.90	10.79	11.00	
20	64QAM	50	50	10.90	10.75	10.74	
20	64QAM	100	0	11.01	10.95	11.02	11.5
20	256QAM	1	0	8.63	8.80	8.90	
20	256QAM	1	49	8.84	8.41	8.63	
20	256QAM	1	99	8.52	8.59	8.59	
20	256QAM	50	0	8.65	8.54	8.61	9.5
20	256QAM	50	24	8.80	8.90	8.54	
20	256QAM	50	50	8.61	8.51	8.60	
20	256QAM	100	0	8.43	8.60	8.53	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	13.57	13.52	13.55	14.5
15	QPSK	1	37	13.56	13.56	13.39	
15	QPSK	1	74	13.46	13.45	13.45	
15	QPSK	36	0	12.82	12.72	13.00	
15	QPSK	36	20	12.81	12.62	12.84	13.5
15	QPSK	36	39	12.57	12.57	12.81	
15	QPSK	75	0	12.66	12.74	12.92	
15	16QAM	1	0	12.47	12.58	12.66	
15	16QAM	1	37	12.82	12.55	12.56	13.5
15	16QAM	1	74	12.92	12.63	12.66	
15	16QAM	36	0	11.71	11.86	11.65	
15	16QAM	36	20	11.68	11.76	11.62	
15	16QAM	36	39	11.73	11.52	11.71	12.5
15	16QAM	75	0	11.63	11.90	11.94	
15	64QAM	1	0	11.87	11.97	11.91	
15	64QAM	1	37	11.92	11.95	11.78	
15	64QAM	1	74	11.88	11.59	11.78	11.5
15	64QAM	36	0	10.98	10.95	10.99	
15	64QAM	36	20	11.00	10.91	10.99	
15	64QAM	36	39	10.87	10.71	10.59	
15	64QAM	75	0	11.03	10.77	11.00	9.5
15	256QAM	1	0	8.78	8.70	8.81	
15	256QAM	1	37	8.84	8.45	8.58	
15	256QAM	1	74	8.46	8.50	8.69	
15	256QAM	36	0	8.46	8.46	8.51	9.5
15	256QAM	36	20	8.77	8.82	8.64	
15	256QAM	36	39	8.58	8.51	8.62	
15	256QAM	75	0	8.46	8.41	8.37	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	13.51	13.53	13.52	14.5
10	QPSK	1	25	13.58	13.57	13.41	
10	QPSK	1	49	13.35	13.46	13.51	
10	QPSK	25	0	12.86	12.68	13.02	
10	QPSK	25	12	12.75	12.56	12.87	13.5
10	QPSK	25	25	12.65	12.52	12.74	
10	QPSK	50	0	12.69	12.74	12.87	
10	16QAM	1	0	12.41	12.65	12.75	
10	16QAM	1	25	12.61	12.52	12.83	13.5
10	16QAM	1	49	12.63	12.55	12.60	
10	16QAM	25	0	11.48	11.92	11.64	
10	16QAM	25	12	11.65	11.60	11.72	
10	16QAM	25	25	11.74	11.56	11.78	12.5
10	16QAM	50	0	11.80	12.16	12.16	
10	64QAM	1	0	11.99	12.05	11.92	
10	64QAM	1	25	11.89	11.76	11.98	
10	64QAM	1	49	11.94	11.65	11.93	12.5
10	64QAM	25	0	10.78	10.77	10.86	
10	64QAM	25	12	10.88	10.70	10.94	
10	64QAM	25	25	10.91	10.67	10.86	
10	64QAM	50	0	11.05	11.00	11.01	11.5
10	256QAM	1	0	8.70	8.76	8.93	
10	256QAM	1	25	8.95	8.51	8.51	
10	256QAM	1	49	8.50	8.58	8.69	
10	256QAM	25	0	8.77	8.52	8.64	9.5
10	256QAM	25	12	8.66	8.72	8.47	
10	256QAM	25	25	8.74	8.38	8.48	
10	256QAM	50	0	8.51	8.67	8.52	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	13.59	13.51	13.62	14.5
5	QPSK	1	12	13.59	13.56	13.51	
5	QPSK	1	24	13.41	13.40	13.53	
5	QPSK	12	0	12.80	12.74	12.98	
5	QPSK	12	7	12.73	12.53	12.90	13.5
5	QPSK	12	13	12.61	12.55	12.79	
5	QPSK	25	0	12.58	12.79	12.86	
5	16QAM	1	0	12.44	12.56	12.92	

Band 71 (dBm)							
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	21.99	22.18	22.14	23
20	QPSK	1	49	22.05	22.01	22.09	
20	QPSK	1	99	22.01	22.08	22.05	
20	QPSK	50	0	21.06	21.28	21.10	
20	QPSK	50	24	21.05	21.26	21.12	22
20	QPSK	50	50	21.21	21.11	21.26	
20	QPSK	100	0	21.07	21.26	21.01	
20	16QAM	1	0	21.06	21.13	21.11	
20	16QAM	1	49	20.98	21.19	21.20	22
20	16QAM	1	99	20.88	21.01	20.95	
20	16QAM	50	0	20.05	20.25	20.03	
20	16QAM	50	24	20.00	20.13	20.18	
20	16QAM	50	50	19.92	20.14	20.03	21
20	16QAM	100	0	20.15	20.27	20.22	
20	64QAM	1	0	19.99	19.89	19.86	
20	64QAM	1	49	19.85	19.82	19.88	
20	64QAM	1	99	19.84	19.81	19.82	21
20	64QAM	50	0	19.08	19.23	19.07	
20	64QAM	50	24	19.13	19.17	19.03	
20	64QAM	50	50	19.18	19.02	19.02	
20	64QAM	100	0	19.02	19.18	19.11	20
20	256QAM	1	0	17.16	17.45	17.25	
20	256QAM	1	49	17.21	17.23	17.11	
20	256QAM	1	99	17.19	16.98	17.16	
20	256QAM	50	0	17.17	17.01	17.12	18
20	256QAM	50	24	17.18	17.26	17.28	
20	256QAM	50	50	17.28	17.21	17.17	
20	256QAM	100	0	17.37	16.97	17.24	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	21.95	22.11	22.10	23
15	QPSK	1	37	21.95	21.91	22.03	
15	QPSK	1	74	21.92	21.94	21.95	
15	QPSK	36	0	20.96	21.16	21.09	
15	QPSK	36	20	20.98	21.24	20.99	22
15	QPSK	36	39	21.09	21.09	21.14	
15	QPSK	75	0	21.04	21.14	20.93	
15	16QAM	1	0	21.00	21.04	20.93	
15	16QAM	1	37	20.95	21.14	21.11	22
15	16QAM	1	74	20.79	20.92	21.03	
15	16QAM	36	0	20.03	20.14	20.04	
15	16QAM	36	20	19.82	20.04	20.03	
15	16QAM	36	39	20.00	20.04	20.09	21
15	16QAM	75	0	20.07	20.39	20.32	
15	64QAM	1	0	19.92	20.00	19.87	
15	64QAM	1	37	19.75	19.85	19.78	
15	64QAM	1	74	19.72	19.78	19.77	21
15	64QAM	36	0	18.99	19.37	19.00	
15	64QAM	36	20	19.10	19.25	19.07	
15	64QAM	36	39	19.16	18.98	19.10	
15	64QAM	75	0	18.82	19.09	19.17	20
15	256QAM	1	0	17.06	17.36	17.07	
15	256QAM	1	37	17.25	17.03	17.08	
15	256QAM	1	74	17.10	17.13	17.13	
15	256QAM	36	0	17.30	17.16	17.16	18
15	256QAM	36	20	17.33	17.19	17.27	
15	256QAM	36	39	17.41	17.29	16.99	
15	256QAM	75	0	17.49	17.14	17.22	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	21.92	22.10	22.11	23
10	QPSK	1	25	21.91	21.95	21.98	
10	QPSK	1	49	21.94	21.97	21.94	
10	QPSK	25	0	21.00	21.22	20.98	
10	QPSK	25	12	21.02	21.15	21.05	22
10	QPSK	25	25	21.10	20.97	21.25	
10	QPSK	50	0	20.98	21.17	20.90	
10	16QAM	1	0	21.14	20.94	21.18	
10	16QAM	1	25	20.92	21.03	21.16	22
10	16QAM	1	49	20.76	21.09	20.93	
10	16QAM	25	0	20.18	20.27	19.93	
10	16QAM	25	12	20.06	19.97	20.13	
10	16QAM	25	25	19.92	20.02	19.92	21
10	16QAM	50	0	19.98	20.09	20.24	
10	64QAM	1	0	19.99	20.02	19.95	
10	64QAM	1	25	19.75	19.84	19.94	
10	64QAM	1	49	19.86	19.91	19.73	21
10	64QAM	25	0	19.22	19.13	18.99	
10	64QAM	25	12	18.94	18.99	19.04	
10	64QAM	25	25	19.26	18.91	18.87	
10	64QAM	50	0	18.84	19.23	19.06	20
10	256QAM	1	0	17.14	17.50	17.09	
10	256QAM	1	25	17.14	17.13	17.22	
10	256QAM	1	49	17.22	17.09	17.04	
10	256QAM	25	0	17.04	17.06	17.05	18
10	256QAM	25	12	17.11	17.19	17.39	
10	256QAM	25	25	17.13	17.05	17.01	
10	256QAM	50	0	17.30	16.98	17.12	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	21.95	22.16	22.04	23
5	QPSK	1	12	21.99	21.96	21.99	
5	QPSK	1	24	22.00	22.07	21.99	
5	QPSK	12	0	20.92	21.25	21.06	
5	QPSK	12	7	20.99	21.19	20.99	22
5	QPSK	12	13	21.07	21.05	21.12	
5	QPSK	25	0	21.02	21.20	20.89	
5	16QAM	1	0	21.15	21.26	21.07	

5	16QAM	1	12	12.62	12.50	12.89	13.5
5	16QAM	1	24	12.65	12.60	12.61	
5	16QAM	12	0	11.76	11.85	11.72	
5	16QAM	12	7	11.70	11.84	11.60	
5	16QAM	12	13	11.55	11.69	11.91	12.5
5	16QAM	25	0	12.05	11.86	12.20	
5	64QAM	1	0	11.93	11.82	11.99	
5	64QAM	1	12	11.86	11.95	11.88	12.5
5	64QAM	1	24	11.92	11.51	11.97	
5	64QAM	12	0	10.84	10.99	11.10	
5	64QAM	12	7	10.88	10.63	10.83	
5	64QAM	12	13	10.96	10.67	10.74	11.5
5	64QAM	25	0	10.91	10.78	10.87	
5	256QAM	1	0	8.76	8.91	8.81	
5	256QAM	1	12	8.79	8.53	8.53	9.5
5	256QAM	1	24	8.50	8.72	8.69	
5	256QAM	12	0	8.70	8.64	8.52	
5	256QAM	12	7	8.85	8.72	8.48	9.5
5	256QAM	12	13	8.74	8.43	8.40	
5	256QAM	25	0	8.37	8.41	8.44	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	13.54	13.52	13.63	14.5
3	QPSK	1	8	13.61	13.54	13.44	
3	QPSK	1	14	13.45	13.44	13.43	
3	QPSK	8	0	12.85	12.75	12.91	13.5
3	QPSK	8	4	12.82	12.66	12.86	
3	QPSK	8	7	12.53	12.45	12.75	
3	QPSK	15	0	12.65	12.81	12.87	
3	16QAM	1	0	12.67	12.68	12.81	13.5
3	16QAM	1	8	12.69	12.62	12.74	
3	16QAM	1	14	12.83	12.53	12.52	
3	16QAM	8	0	11.63	12.07	11.86	12.5
3	16QAM	8	4	11.66	11.85	11.61	
3	16QAM	8	7	11.58	11.67	11.77	
3	16QAM	15	0	11.92	12.18	12.09	
3	64QAM	1	0	11.91	11.97	11.87	12.5
3	64QAM	1	8	11.78	11.73	11.99	
3	64QAM	1	14	11.89	11.58	12.01	
3	64QAM	8	0	10.83	10.92	10.85	11.5
3	64QAM	8	4	10.91	10.78	11.11	
3	64QAM	8	7	10.93	10.70	10.61	
3	64QAM	15	0	10.88	10.95	10.98	
3	256QAM	1	0	8.75	8.63	8.72	9.5
3	256QAM	1	8	8.62	8.28	8.67	
3	256QAM	1	14	8.40	8.47	8.48	
3	256QAM	8	0	8.45	8.55	8.64	9.5
3	256QAM	8	4	8.91	8.86	8.63	
3	256QAM	8	7	8.54	8.54	8.58	
3	256QAM	15	0	8.30	8.65	8.37	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	13.99	13.52	13.60	14.5
1.4	QPSK	1	3	13.54	13.56	13.42	
1.4	QPSK	1	5	13.46	13.43	13.54	
1.4	QPSK	3	0	13.29	13.18	13.44	13.5
1.4	QPSK	3	1	13.21	13.13	13.42	
1.4	QPSK	3	3	13.16	13.24	13.31	
1.4	QPSK	6	0	12.65	12.82	12.88	12.5
1.4	16QAM	1	0	12.44	12.67	12.85	
1.4	16QAM	1	3	12.57	12.45	12.69	13.5
1.4	16QAM	1	5	12.58	12.52	12.73	
1.4	16QAM	3	0	12.19	12.36	12.24	12.5
1.4	16QAM	3	1	12.40	12.05	12.08	
1.4	16QAM	3	3	12.16	12.32	12.38	
1.4	16QAM	6	0	11.89	12.13	12.02	11.5
1.4	64QAM	1	0	12.03	12.12	11.98	
1.4	64QAM	1	3	11.89	11.75	12.00	9.5
1.4	64QAM	1	5	11.74	11.68	12.08	
1.4	64QAM	3	0	11.28	11.29	11.36	9.5
1.4	64QAM	3	1	11.33	11.09	11.54	
1.4	64QAM	3	3	11.26	11.24	11.36	
1.4	64QAM	6	0	11.14	11.02	10.82	9.5
1.4	256QAM	1	0	8.52	8.69	8.92	
1.4	256QAM	1	3	8.85	8.54	8.51	9.5
1.4	256QAM	1	5	8.66	8.63	8.59	
1.4	256QAM	3	0	8.68	8.35	8.53	9.5
1.4	256QAM	3	1	8.82	8.78	8.64	
1.4	256QAM	3	3	8.50	8.40	8.69	
1.4	256QAM	6	0	8.29	8.67	8.41	9.5

5	16QAM	1	12	21.01	21.01	21.33	22
5	16QAM	1	24	20.97	21.06	20.85	
5	16QAM	12	0	20.11	20.27	20.03	
5	16QAM	12	7	19.81	20.20	20.14	
5	16QAM	12	13	19.83	20.27	19.98	21
5	16QAM	25	0	20.04	20.15	20.06	
5	64QAM	1	0	19.98	19.73	19.67	
5	64QAM	1	12	19.96	19.79	19.83	21
5	64QAM	1	24	19.68	19.78	19.68	
5	64QAM	12	0	18.93	19.29	19.03	
5	64QAM	12	7	19.02	19.24	19.17	20
5	64QAM	12	13	19.12	19.12	19.10	
5	64QAM	25	0	19.12	19.12	18.96	
5	256QAM	1	0	17.29	17.31	17.08	18
5	256QAM	1	12	17.15	17.36	17.13	
5	256QAM	1	24	17.04	16.90	16.98	
5	256QAM	12	0	17.31	17.06	17.13	18
5	256QAM	12	7	17.16	17.18	17.35	
5	256QAM	12	13	17.21	17.21	17.11	
5	256QAM	25	0	17.36	16.95	17.06	

n2 (PC3)_15KHz

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	16.5
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	15.38	15.41	15.28	16.5
20		1	53	15.41	15.31	15.23	
20		1	104	15.46	15.25	15.30	
20		50	1	15.41	15.41	15.09	16.5
20		50	25	15.38	15.34	15.28	
20		50	50	15.47	15.20	15.13	
20		100	0	15.42	15.29	15.14	
20	DFT-s-OFDM QPSK	1	1	15.56	15.85	15.52	16.5
20		1	53	15.43	15.41	15.28	
20		1	104	15.44	15.32	15.32	
20		50	1	15.46	15.74	15.57	16.5
20		50	25	15.46	15.41	15.31	
20		50	50	15.45	15.26	15.23	
20		100	0	15.33	15.52	15.17	
20	DFT-s-OFDM 16QAM	1	1	14.81	14.92	14.80	15.5
20	DFT-s-OFDM 64QAM	1	1	12.99	13.01	12.91	13.5
20	DFT-s-OFDM 256QAM	1	1	11.02	10.99	10.93	11.5
20	CP-OFDM QPSK	1	1	14.84	14.79	14.70	15.5
20	CP-OFDM 16QAM	1	1	13.50	13.44	13.40	14.5
20	CP-OFDM 64QAM	1	1	12.14	12.07	11.89	13.5
20	CP-OFDM 256QAM	1	1	9.05	9.01	8.94	9.5
Channel				371500	376000	380500	16.5
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	15.51	15.31	15.16	16.5
Channel				371000	376000	381000	16.5
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	15.54	15.51	15.42	16.5
Channel				370500	376000	381500	16.5
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	15.51	15.55	15.37	16.5

n2 (PC3)_30KHz

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	15.52	15.52	15.35	16.5
20		1	25	15.58	15.51	15.31	
20		1	49	15.52	15.40	15.30	
20		25	1	15.60	15.48	15.24	16.5
20		25	12	15.65	15.51	15.31	
20		25	25	15.65	15.49	15.40	
20		50	0	15.65	15.55	15.24	
20	DFT-s-OFDM QPSK	1	1	15.55	15.67	15.38	16.5
20		1	25	15.66	15.66	15.35	
20		1	49	15.59	15.66	15.35	
20		25	1	15.59	15.64	15.32	16.5
20		25	12	15.59	15.48	15.41	
20		25	25	15.55	15.47	15.40	
20		50	0	15.58	15.55	15.20	
20	DFT-s-OFDM 16QAM	1	1	14.97	15.09	14.88	15.5
20	DFT-s-OFDM 64QAM	1	1	13.09	13.20	12.94	13.5
20	DFT-s-OFDM 256QAM	1	1	11.13	11.12	10.96	12.5
20	CP-OFDM QPSK	1	1	15.00	14.94	14.78	16
20	CP-OFDM 16QAM	1	1	13.61	13.62	13.51	14.5
20	CP-OFDM 64QAM	1	1	12.26	12.20	12.08	13.5
20	CP-OFDM 256QAM	1	1	9.19	9.09	8.95	9.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	15.64	15.51	15.27	16.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	15.56	15.58	15.44	16.5

n5 (PC3)_15KHz										
BW [MHz]	Modulation		RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel					166800	167300	167800			
Frequency (MHz)					834	836.5	839			
20	DFT-s-OFDM PI/2 BPSK		1	1	19.29	19.30	19.35	20.5		
20			1	53	19.48	19.45	19.42			
20			1	104	19.46	19.48	19.46			
20			50	1	19.34	19.40	19.49	20.5		
20			50	25	19.48	19.49	19.44			
20			50	50	19.44	19.34	19.29			
20	DFT-s-OFDM QPSK		100	0	19.44	19.36	19.35	20.5		
20			1	1	19.51	19.54	19.50			
20			1	53	19.34	19.45	19.43			
20			1	104	19.47	19.42	19.22	20.5		
20			50	1	19.44	19.50	19.42			
20			50	25	19.39	19.45	19.48			
20	DFT-s-OFDM 16QAM		50	50	19.41	19.46	19.31	20.5		
20			50	0	19.45	19.47	19.38			
20			1	1	18.80	18.82	18.88			
20			DFT-s-OFDM 64QAM		1	1	16.50	16.66	16.59	17.5
20			DFT-s-OFDM 256QAM		1	1	14.67	14.77	14.79	15.5
20			CP-OFDM QPSK		1	1	18.64	18.71	18.81	19.5
20	CP-OFDM 16QAM		1	1	17.33	17.45	17.38	18.5		
20	CP-OFDM 64QAM		1	1	15.48	15.69	15.63	16.5		
20	CP-OFDM 256QAM		1	1	12.62	12.72	12.86	13.5		
Channel					166300	167300	168300	Tune-up limit (dBm)		
Frequency (MHz)					831.5	836.5	841.5			
15	DFT-s-OFDM QPSK		1	1	19.22	19.23	19.27	20.5		
Channel					165800	167300	168800	Tune-up limit (dBm)		
Frequency (MHz)					829	836.5	844			
10	DFT-s-OFDM QPSK		1	1	19.28	19.39	19.28	20.5		
Channel					165300	167300	169300	Tune-up limit (dBm)		
Frequency (MHz)					826.5	836.5	846.5			
5	DFT-s-OFDM QPSK		1	1	19.30	19.41	19.46	20.5		

n5 (PC3)_30KHz								
BW [MHz]	Modulation		RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					166800	167300	167800	
Frequency (MHz)					834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK		1	1	19.22	19.25	19.26	20.5
20			1	25	19.33	19.39	19.40	
20			1	49	19.45	19.43	19.35	
20			25	1	19.35	19.31	19.36	20.5
20			25	12	19.40	19.48	19.42	
20			25	25	19.45	19.46	19.43	
20		50	0	19.40	19.46	19.41		
20	DFT-s-OFDM QPSK		1	1	19.43	19.53	19.48	20.5
20			1	25	19.32	19.50	19.39	
20			1	49	19.34	19.48	19.41	
20			25	1	19.44	19.46	19.41	20.5
20			25	12	19.37	19.42	19.22	
20			25	25	19.41	19.41	19.33	
20		50	0	19.39	19.33	19.36		
20	DFT-s-OFDM 16QAM		1	1	18.78	18.69	18.90	19.5
20	DFT-s-OFDM 64QAM		1	1	16.63	16.68	16.80	17.5
20	DFT-s-OFDM 256QAM		1	1	14.54	14.59	14.72	15.5
20	CP-OFDM QPSK		1	1	18.74	18.88	18.86	19.5
20	CP-OFDM 16QAM		1	1	17.00	17.13	17.12	18
20	CP-OFDM 64QAM		1	1	15.57	15.66	15.69	16.5
20	CP-OFDM 256QAM		1	1	12.57	12.64	12.67	13.5
Channel					166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)					831.5	836.5	841.5	
15	DFT-s-OFDM QPSK		1	1	19.29	19.23	19.37	20.5
Channel					165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)					829	836.5	844	
10	DFT-s-OFDM QPSK		1	1	19.29	19.40	19.37	20.5

n12 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	22.5
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	21.58	21.67	21.65	22.5
15		1	39	21.80	21.77	21.70	
15		1	77	21.71	21.71	21.63	
15		36	1	21.63	21.65	21.82	22.5
15	DFT-s-OFDM QPSK	36	18	21.78	21.75	21.76	
15		36	37	21.65	21.73	21.84	
15		75	0	21.69	21.76	21.86	
15		1	1	21.85	21.94	21.90	22.5
15	DFT-s-OFDM 16QAM	1	39	21.74	21.71	21.80	
15		1	77	21.69	21.69	21.73	
15		36	1	21.84	21.86	21.83	22.5
15		36	18	21.81	21.73	21.79	
15	DFT-s-OFDM 64QAM	36	37	21.76	21.81	21.80	
15		75	0	21.66	21.79	21.73	21.5
15		1	1	21.14	21.17	21.18	
15		1	1	18.94	18.94	18.88	19.5
15	DFT-s-OFDM 256QAM	1	1	17.04	17.04	17.11	18
15	CP-OFDM QPSK	1	1	21.13	21.07	21.26	22
15	CP-OFDM 16QAM	1	1	19.57	19.70	19.62	20.5
15	CP-OFDM 64QAM	1	1	18.06	18.09	18.11	19
15	CP-OFDM 256QAM	1	1	15.24	15.25	15.51	16
Channel				140800	141500	142200	22.5
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	21.60	21.60	21.61	22.5
Channel				140300	141500	142700	22.5
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	21.67	21.67	21.67	22.5

n12 (PC3)_30KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	22.5
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	21.71	21.58	21.70	22.5
15		1	19	21.75	21.54	21.77	
15		1	36	21.78	21.64	21.74	
15		18	1	21.60	21.54	21.60	22.5
15		18	9	21.69	21.69	21.80	
15		18	18	21.77	21.72	21.73	
15	DFT-s-OFDM QPSK	36	0	21.64	21.63	21.78	22.5
15		1	1	21.85	21.92	21.88	
15		1	19	21.69	21.53	21.62	
15		1	36	21.72	21.68	21.59	22.5
15		18	1	21.87	21.88	21.82	
15		18	9	21.77	21.67	21.78	
15	DFT-s-OFDM 16QAM	18	18	21.73	21.73	21.77	22.5
15		36	0	21.65	21.76	21.74	
15		1	1	21.15	21.25	21.22	
15	DFT-s-OFDM 64QAM	1	1	19.01	19.05	19.07	20
15	DFT-s-OFDM 256QAM	1	1	16.87	16.89	16.88	17.5
15	CP-OFDM QPSK	1	1	21.08	21.16	20.99	22
15	CP-OFDM 16QAM	1	1	19.62	19.68	19.64	20.5
15	CP-OFDM 64QAM	1	1	17.86	17.86	17.80	18.5
15	CP-OFDM 256QAM	1	1	15.24	15.26	15.13	16
Channel				140800	141500	142200	22.5
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	21.73	21.54	21.66	22.5

n25 (PC3)_15KHz

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	18
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.55	16.61	16.53	18
40		1	108	16.91	16.95	16.82	
40		1	214	16.47	16.42	16.44	
40		108	1	16.75	16.76	16.89	18
40		108	54	16.88	16.97	16.86	
40		108	108	16.56	16.88	16.56	
40		216	0	16.57	16.84	16.68	
40	DFT-s-OFDM QPSK	1	1	16.90	17.28	16.89	18
40		1	108	16.63	16.65	16.57	
40		1	214	16.49	16.40	16.48	
40		108	1	16.93	16.95	16.88	18
40		108	54	16.73	16.80	16.89	
40		108	108	16.56	16.87	16.56	
40		216	0	16.59	16.84	16.72	
40	DFT-s-OFDM 16QAM	1	1	15.98	16.09	15.99	17
40	DFT-s-OFDM 64QAM	1	1	14.09	14.14	14.15	15
40	DFT-s-OFDM 256QAM	1	1	12.19	12.24	12.14	13
40	CP-OFDM QPSK	1	1	16.03	15.97	15.96	17
40	CP-OFDM 16QAM	1	1	14.76	14.75	14.66	16
40	CP-OFDM 64QAM	1	1	13.28	13.30	13.27	14
40	CP-OFDM 256QAM	1	1	10.24	10.25	10.17	11
Channel				373000	376500	380000	18
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	16.89	16.51	16.65	18
Channel				372000	376500	381000	18
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	17.14	16.89	16.85	18
Channel				371494	376494	381494	18
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	17.00	16.90	16.74	18
Channel				371000	376500	382000	18
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	17.16	16.73	16.77	18
Channel				370500	376500	382500	18
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	17.13	17.09	16.93	18

n25 (PC3)_30KHz

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	18
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.69	16.73	16.58	18
40		1	53	16.98	16.86	16.91	
40		1	104	17.02	16.98	16.96	
40		50	1	16.90	16.67	16.85	18
40		50	25	16.99	16.84	16.90	
40		50	50	16.99	17.03	16.98	
40		100	0	16.91	16.83	16.92	
40	DFT-s-OFDM QPSK	1	1	16.88	17.23	16.89	18
40		1	53	16.91	16.94	16.99	
40		1	104	16.96	17.03	16.97	
40		50	1	16.94	16.63	16.95	18
40		50	25	17.04	16.92	16.95	
40		50	50	16.98	17.04	16.99	
40		100	0	16.89	16.88	17.01	
40	DFT-s-OFDM 16QAM	1	1	16.09	16.19	16.22	17
40	DFT-s-OFDM 64QAM	1	1	14.21	14.23	14.24	16
40	DFT-s-OFDM 256QAM	1	1	12.33	12.33	12.20	13
40	CP-OFDM QPSK	1	1	16.14	16.13	16.06	17
40	CP-OFDM 16QAM	1	1	14.79	14.85	14.76	15.5
40	CP-OFDM 64QAM	1	1	13.43	13.41	13.37	15
40	CP-OFDM 256QAM	1	1	10.30	10.31	10.30	11
Channel				373000	376500	380000	18
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	16.94	16.65	16.74	18
Channel				372500	376500	380500	18
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	16.99	16.93	16.86	18
Channel				372000	376500	381000	18
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	17.06	17.05	16.95	18
Channel				371500	376500	381500	18
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	17.12	16.99	16.85	18
Channel				371000	376500	382000	18
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	17.07	16.79	16.93	18

[illegible]

n41 (PC2)_SCS 30KHz_ANT 0										
Y (MHz)	Modulation	BS Type	BS Class	BS Chn	BS Chn	BS Chn	BS Chn	BS Chn	BS Chn	BS Chn
Channel										
Frequency (MHz)										
100	1	1	1	14.20	14.21	14.22	14.23	14.24	14.25	14.26
100	1	1	1	14.26	14.27	14.28	14.29	14.30	14.31	14.32
100	1	1	1	14.32	14.33	14.34	14.35	14.36	14.37	14.38
100	1	1	1	14.38	14.39	14.40	14.41	14.42	14.43	14.44
100	1	1	1	14.44	14.45	14.46	14.47	14.48	14.49	14.50
100	1	1	1	14.50	14.51	14.52	14.53	14.54	14.55	14.56
100	1	1	1	14.56	14.57	14.58	14.59	14.60	14.61	14.62
100	1	1	1	14.62	14.63	14.64	14.65	14.66	14.67	14.68
100	1	1	1	14.68	14.69	14.70	14.71	14.72	14.73	14.74
100	1	1	1	14.74	14.75	14.76	14.77	14.78	14.79	14.80
100	1	1	1	14.80	14.81	14.82	14.83	14.84	14.85	14.86
100	1	1	1	14.86	14.87	14.88	14.89	14.90	14.91	14.92
100	1	1	1	14.92	14.93	14.94	14.95	14.96	14.97	14.98
100	1	1	1	14.98	14.99	15.00	15.01	15.02	15.03	15.04
100	1	1	1	15.04	15.05	15.06	15.07	15.08	15.09	15.10
100	1	1	1	15.10	15.11	15.12	15.13	15.14	15.15	15.16
100	1	1	1	15.16	15.17	15.18	15.19	15.20	15.21	15.22
100	1	1	1	15.22	15.23	15.24	15.25	15.26	15.27	15.28
100	1	1	1	15.28	15.29	15.30	15.31	15.32	15.33	15.34
100	1	1	1	15.34	15.35	15.36	15.37	15.38	15.39	15.40
100	1	1	1	15.40	15.41	15.42	15.43	15.44	15.45	15.46
100	1	1	1	15.46	15.47	15.48	15.49	15.50	15.51	15.52
100	1	1	1	15.52	15.53	15.54	15.55	15.56	15.57	15.58
100	1	1	1	15.58	15.59	15.60	15.61	15.62	15.63	15.64
100	1	1	1	15.64	15.65	15.66	15.67	15.68	15.69	15.70
100	1	1	1	15.70	15.71	15.72	15.73	15.74	15.75	15.76
100	1	1	1	15.76	15.77	15.78	15.79	15.80	15.81	15.82
100	1	1	1	15.82	15.83	15.84	15.85	15.86	15.87	15.88
100	1	1	1	15.88	15.89	15.90	15.91	15.92	15.93	15.94
100	1	1	1	15.94	15.95	15.96	15.97	15.98	15.99	16.00
100	1	1	1	16.00	16.01	16.02	16.03	16.04	16.05	16.06
100	1	1	1	16.06	16.07	16.08	16.09	16.10	16.11	16.12
100	1	1	1	16.12	16.13	16.14	16.15	16.16	16.17	16.18
100	1	1	1	16.18	16.19	16.20	16.21	16.22	16.23	16.24
100	1	1	1	16.24	16.25	16.26	16.27	16.28	16.29	16.30
100	1	1	1	16.30	16.31	16.32	16.33	16.34	16.35	16.36
100	1	1	1	16.36	16.37	16.38	16.39	16.40	16.41	16.42
100	1	1	1	16.42	16.43	16.44	16.45	16.46	16.47	16.48
100	1	1	1	16.48	16.49	16.50	16.51	16.52	16.53	16.54
100	1	1	1	16.54	16.55	16.56	16.57	16.58	16.59	16.60
100	1	1	1	16.60	16.61	16.62	16.63	16.64	16.65	16.66
100	1	1	1	16.66	16.67	16.68	16.69	16.70	16.71	16.72
100	1	1	1	16.72	16.73	16.74	16.75	16.76	16.77	16.78
100	1	1	1	16.78	16.79	16.80	16.81	16.82	16.83	16.84
100	1	1	1	16.84	16.85	16.86	16.87	16.88	16.89	16.90
100	1	1	1	16.90	16.91	16.92	16.93	16.94	16.95	16.96
100	1	1	1	16.96	16.97	16.98	16.99	17.00	17.01	17.02
100	1	1	1	17.02	17.03	17.04	17.05	17.06	17.07	17.08
100	1	1	1	17.08	17.09	17.10	17.11	17.12	17.13	17.14
100	1	1	1	17.14	17.15	17.16	17.17	17.18	17.19	17.20
100	1	1	1	17.20	17.21	17.22	17.23	17.24	17.25	17.26
100	1	1	1	17.26	17.27	17.28	17.29	17.30	17.31	17.32
100	1	1	1	17.32	17.33	17.34	17.35	17.36	17.37	17.38
100	1	1	1	17.38	17.39	17.40	17.41	17.42	17.43	17.44
100	1	1	1	17.44	17.45	17.46	17.47	17.48	17.49	17.50
100	1	1	1	17.50	17.51	17.52	17.53	17.54	17.55	17.56
100	1	1	1	17.56	17.57	17.58	17.59	17.60	17.61	17.62
100	1	1	1	17.62	17.63	17.64	17.65	17.66	17.67	17.68
100	1	1	1	17.68	17.69	17.70	17.71	17.72	17.73	17.74
100	1	1	1	17.74	17.75	17.76	17.77	17.78	17.79	17.80
100	1	1	1	17.80	17.81	17.82	17.83	17.84	17.85	17.86
100	1	1	1	17.86	17.87	17.88	17.89	17.90	17.91	17.92
100	1	1	1	17.92	17.93	17.94	17.95	17.96	17.97	17.98
100	1	1	1	17.98	17.99	18.00	18.01	18.02	18.03	18.04
100	1	1	1	18.04	18.05	18.06	18.07	18.08	18.09	18.10
100	1	1	1	18.10	18.11	18.12	18.13	18.14	18.15	18.16
100	1	1	1	18.16	18.17	18.18	18.19	18.20	18.21	18.22
100	1	1	1	18.22	18.23	18.24	18.25	18.26	18.27	18.28
100	1	1	1	18.28	18.29	18.30	18.31	18.32	18.33	18.34
100	1	1	1	18.34	18.35	18.36	18.37	18.38	18.39	18.40
100	1	1	1	18.40	18.41	18.42	18.43	18.44	18.45	18.46
100	1	1	1	18.46	18.47	18.48	18.49	18.50	18.51	18.52
100	1	1	1	18.52	18.53	18.54	18.55	18.56	18.57	18.58
100	1	1	1	18.58	18.59	18.60	18.61	18.62	18.63	18.64
100	1	1	1	18.64	18.65	18.66	18.67	18.68	18.69	18.70
100	1	1	1	18.70	18.71	18.72	18.73	18.74	18.75	18.76
100	1	1	1	18.76	18.77	18.78	18.79	18.80	18.81	18.82
100	1	1	1	18.82	18.83	18.84	18.85	18.86	18.87	18.88
100	1	1	1	18.88	18.89	18.90	18.91	18.92	18.93	18.94
100	1	1	1	18.94	18.95	18.96	18.97	18.98	18.99	19.00
100	1	1	1	19.00	19.01	19.02	19.03	19.04	19.05	19.06
100	1	1	1	19.06	19.07	19.08	19.09	19.10	19.11	19.12
100	1	1	1	19.12	19.13	19.14	19.15	19.16	19.17	19.18
100	1	1	1	19.18	19.19	19.20	19.21	19.22	19.23	19.24
100	1	1	1	19.24	19.25	19.26	19.27	19.28	19.29	19.30
100	1	1	1	19.30	19.31	19.32	19.33	19.34	19.35	19.36
100	1	1	1	19.36	19.37	19.38	19.39	19.40	19.41	19.42
100	1	1	1	19.42	19.43	19.44	19.45	19.46	19.47	19.48
100	1	1	1	19.48	19.49	19.50	19.51	19.52	19.53	19.54
100	1	1	1	19.54	19.55	19.56	19.57	19.58	19.59	19.60
100	1	1	1	19.60	19.61	19.62	19.63	19.64	19.65	19.66
100	1	1	1	19.66	19.67	19.68	19.69	19.70	19.71	19.72
100	1	1	1	19.72	19.73	19.74	19.75	19.76	19.77	19.78
100	1	1	1	19.78	19.79	19.80	19.81	19.82	19.83	19.84
100	1	1	1	19.84	19.85	19.86	19.87	19.88	19.89	19.90
100	1	1	1	19.90	19.91	19.92	19.93	19.94	19.95	19.96
100	1	1	1	19.96	19.97	19.98	19.99	20.00	20.01	20.02
100	1	1	1	20.02	20.03	20.04	20.05	20.06	20.07	20.08
100	1	1	1	20.08	20.09	20.10	20.11	20.12	20.13	20.14
100	1	1	1	20.14	20.15	20.16	20.17	20.18	20.19	20.20
100	1	1	1	20.20	20.21	20.22	20.23	20.24	20.25	20.26
100	1	1	1	20.26	20.27	20.28	20.29	20.30	20.31	20.32
100	1	1	1	20.32	20.33	20.34	20.35	20.36	20.37	20.38
100	1	1	1	20.38	20.39	20.40	20.41	20.42	20.43	20.44
100	1	1	1	20.44	20.45	20.46	20.47	20.48	20.49	20.50
100	1	1	1	20.50	20.51	20.52	20.53	20.54	20.55	20.56
100	1	1	1	20.56	20.57	20.58	20.59	20.60	20.61	20.62
100	1	1	1	20.62	20.63	20.64	20.65	20.66	20.67	20.68
100	1	1	1	20.68	20.69	20.70	20.71	20.72	20.73	20.74
100	1	1	1	20.74	20.75	20.76	20.77	20.78	20.79	20.80
100	1	1	1	20.80	20.81	20.82	20.83	20.84	20.85	20.86
100	1	1	1	20.86	20.87	20.88	20.89	20.90	20.91	20.92
100	1	1	1	20.92	20.93	20.94	20.95	20.96	20.97	20.98
100	1	1	1	20.98	20.99	21.00	21.01	21.02	21.03	21.04
100	1	1	1	21.04	21.05	21.06	21.07	21.08	21.09	21.10
100	1	1	1	21.10	21.11	21.12	21.13	21.14	21.15	21.16

n48 (PC3)_SCS 15K									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638334	640000	641666	643332	645000	15.50
Frequency (MHz)				3575.01	3600	3624.99	3647.49	3675	
50	DFT-s-OFDM PI/2 BPSK	1	1	13.99	14.05	14.43	14.24	14.06	15.50
50		1	135	14.18	14.53	14.40	14.27	14.07	
50		1	268	14.47	14.25	14.21	14.03	13.84	
50		135	1	14.15	14.28	14.32	14.37	14.09	15.50
50		135	67	14.19	14.55	14.34	14.33	14.08	
50		135	135	14.26	14.37	14.39	14.16	13.91	
50	DFT-s-OFDM QPSK	270	0	14.13	14.49	14.28	14.25	14.02	15.50
50		1	1	13.97	14.04	14.57	14.25	14.13	
50		1	135	14.19	14.54	14.36	14.29	14.17	
50		1	268	14.46	14.23	14.23	14.02	13.83	1.00
50		135	1	14.37	14.29	14.43	14.39	14.36	
50		135	67	14.19	14.39	14.35	14.35	14.15	
50	DFT-s-OFDM 16QAM	135	135	14.26	14.35	14.43	14.18	13.94	1.00
50		270	0	14.18	14.38	14.28	14.27	14.02	
50		1	1	13.37	13.42	13.80	13.61	13.69	
50	DFT-s-OFDM 64QAM	1	1	11.61	11.67	12.01	11.86	11.89	13.50
50	DFT-s-OFDM 256QAM	1	1	9.39	9.44	9.74	9.65	9.68	10.50
50	CP-OFDM QPSK	1	1	13.50	13.56	13.91	13.74	13.78	14.50
50	CP-OFDM 16QAM	1	1	11.93	11.95	12.31	12.30	12.12	13.50
50	CP-OFDM 64QAM	1	1	10.57	10.59	10.96	10.59	10.50	11.50
50	CP-OFDM 256QAM	1	1	7.30	7.33	7.77	7.77	7.74	8.50
Channel				638000	639834	641666	643500	645332	15.50
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM QPSK	1	1	13.75	13.70	14.06	13.93	13.68	15.50
Channel				637334	639500	641666	643832	646000	15.50
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	14.08	14.20	14.16	14.28	14.02	15.50
Channel				637168	639418	641666	643916	646166	15.50
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	14.07	14.18	14.11	14.20	13.93	15.50
Channel				637000	639334	641666	644000	646332	15.50
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	14.07	14.28	14.14	14.22	13.95	15.50

n48 (PC3)_SCS 30KHz									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				640000	640834	641666	642500	643332	16.00
Frequency (MHz)				3600	3612.51	3624.99	3637.5	3649.98	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.18	14.22	14.22	14.29	14.44	16.00
100		1	136	15.07	14.72	14.67	14.79	14.79	
100		1	271	14.07	13.96	13.96	13.91	13.86	
100		135	1	14.69	14.80	14.97	14.55	14.51	16.00
100		135	67	15.09	14.90	14.69	14.82	14.82	
100		135	136	14.50	14.60	14.64	14.56	14.52	
100	DFT-s-OFDM QPSK	270	0	15.00	14.80	14.54	14.64	14.66	16.00
100		1	1	14.94	15.04	15.11	14.89	15.07	
100		1	136	15.06	14.71	14.71	14.81	14.84	
100		1	271	14.83	14.94	14.63	14.71	14.80	16.00
100		135	1	14.89	14.95	15.03	14.97	14.85	
100		135	67	14.83	14.95	14.74	14.85	14.86	
100	DFT-s-OFDM 16QAM	135	136	14.52	14.63	14.68	14.60	14.54	16.00
100		270	0	15.00	14.79	14.57	14.69	14.68	
100		1	1	13.76	13.79	13.59	13.87	14.00	
100	DFT-s-OFDM 64QAM	1	1	11.67	11.72	11.66	11.80	11.97	12.50
100	DFT-s-OFDM 256QAM	1	1	9.46	9.54	9.67	9.62	9.78	10.50
100	CP-OFDM QPSK	1	1	13.58	13.64	13.72	13.71	13.88	14.50
100	CP-OFDM 16QAM	1	1	12.14	12.20	12.22	12.29	12.44	13.00
100	CP-OFDM 64QAM	1	1	10.56	10.60	10.58	10.67	10.83	11.50
100	CP-OFDM 256QAM	1	1	7.52	7.62	7.70	7.68	7.87	7.50
Channel				639668	640668	641666	642666	643666	16.00
Frequency (MHz)				3595.02	3610.02	3624.99	3639.99	3654.99	
90	DFT-s-OFDM QPSK	1	1	14.26	14.30	14.24	14.47	14.05	16.00
Channel				639334	640500	641666	642832	644000	16.00
Frequency (MHz)				3590.01	3607.5	3624.99	3642.48	3660	
80	DFT-s-OFDM QPSK	1	1	14.42	14.46	14.46	14.33	14.09	16.00
Channel				638668	640168	641666	643332	644666	16.00
Frequency (MHz)				3580.02	3602.52	3624.99	3647.49	3669.99	
60	DFT-s-OFDM QPSK	1	1	14.37	14.39	14.62	14.38	14.51	16.00
Channel				638334	640000	641666	643332	645000	16.00
Frequency (MHz)				3575.01	3600	3624.99	3647.49	3675	
50	DFT-s-OFDM QPSK	1	1	14.58	14.56	14.83	14.62	14.49	16.00
Channel				638000	639834	641666	643500	645332	16.00
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM QPSK	1	1	14.31	14.32	14.54	14.30	14.25	16.00
Channel				637334	639500	641666	643832	646000	16.00
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	14.72	14.73	14.60	14.74	14.54	16.00
Channel				637168	639418	641666	643916	646166	16.00
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	14.75	14.83	14.60	14.75	14.53	16.00
Channel				637000	639334	641666	644000	646332	16.00
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	14.77	14.85	14.66	14.80	14.57	16.00

n66 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	18
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.27	17.33	17.09	18
40		1	108	17.12	17.13	17.11	
40		1	214	17.20	17.28	17.14	
40		108	1	17.13	17.17	17.22	18
40	DFT-s-OFDM QPSK	108	54	17.34	17.22	17.19	
40		108	108	17.40	17.20	17.29	
40		216	0	17.18	17.13	17.18	
40		1	1	17.38	17.48	17.41	18
40	DFT-s-OFDM 16QAM	1	108	17.21	17.30	17.29	
40		1	214	17.17	17.22	17.15	
40		108	1	17.33	17.40	17.37	18
40		108	54	17.24	17.20	17.03	
40		108	108	17.22	16.83	16.95	
40		216	0	17.19	17.25	17.16	17
40	DFT-s-OFDM 16QAM	1	1	16.37	16.30	16.18	
40	DFT-s-OFDM 64QAM	1	1	14.24	14.21	14.03	
40	DFT-s-OFDM 256QAM	1	1	12.44	12.33	12.18	13
40	CP-OFDM QPSK	1	1	16.21	16.18	16.16	17
40	CP-OFDM 16QAM	1	1	15.77	15.55	15.29	16.5
40	CP-OFDM 64QAM	1	1	13.42	13.21	13.34	14
40	CP-OFDM 256QAM	1	1	10.49	10.34	10.33	11
Channel				345000	349000	353000	18
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	16.92	16.81	16.68	18
Channel				344000	349000	354000	18
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	17.33	17.31	17.02	18
Channel				343500	349000	354500	18
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	17.20	17.17	17.09	18
Channel				343000	349000	355000	18
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	17.33	17.19	17.05	18
Channel				342500	349000	355500	18
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	17.37	17.37	17.08	18

n66 (PC3)_30KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				346000	349000	352000	(dBm)
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.29	17.38	17.33	18
40		1	53	17.35	17.05	17.27	
40		1	104	17.16	17.10	17.19	
40		50	1	17.08	17.07	17.11	18
40		50	25	17.19	17.05	17.22	
40		50	50	17.31	17.19	17.01	
40	DFT-s-OFDM QPSK	100	0	16.91	17.01	16.75	18
40		1	1	17.35	17.39	17.31	
40		1	53	17.20	17.29	17.24	
40		1	104	17.15	17.23	17.15	18
40		50	1	17.18	17.23	17.20	
40		50	25	17.02	17.04	16.87	
40		50	50	17.19	17.11	16.98	
40		100	0	16.91	17.12	16.72	
40	DFT-s-OFDM 16QAM	1	1	16.42	16.27	16.05	17
40	DFT-s-OFDM 64QAM	1	1	14.42	14.53	14.34	15
40	DFT-s-OFDM 256QAM	1	1	12.40	12.35	12.19	13
40	CP-OFDM QPSK	1	1	16.29	16.33	16.13	17
40	CP-OFDM 16QAM	1	1	14.56	14.50	14.29	15.5
40	CP-OFDM 64QAM	1	1	13.47	13.39	13.16	14
40	CP-OFDM 256QAM	1	1	10.45	10.33	10.25	11
Channel				345000	349000	353000	Tune-up limit
Frequency (MHz)				1725	1745	1765	(dBm)
30	DFT-s-OFDM QPSK	1	1	16.88	16.87	16.64	18
Channel				344500	349000	353500	Tune-up limit
Frequency (MHz)				1722.5	1745	1767.5	(dBm)
25	DFT-s-OFDM QPSK	1	1	17.13	17.05	16.84	18
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	17.25	17.23	17.10	18
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	17.27	17.09	16.96	18
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	17.25	17.12	16.94	18

n71 (PC3)_15KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	21.5
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.63	20.51	20.37	21.5
20		1	53	20.52	20.38	20.43	
20		1	104	20.47	20.24	20.23	
20		50	1	20.34	20.44	20.32	21.5
20	DFT-s-OFDM QPSK	50	25	20.54	20.43	20.35	
20		50	50	20.30	20.44	20.13	
20		100	0	20.33	20.59	20.21	
20		1	1	20.59	20.64	20.52	21.5
20	DFT-s-OFDM 16QAM	1	53	20.55	20.34	20.33	
20		1	104	20.37	20.28	20.28	
20		50	1	20.34	20.59	20.32	21.5
20		50	25	20.56	20.48	20.34	
20	DFT-s-OFDM 64QAM	50	50	20.38	20.44	20.23	
20		100	0	20.34	20.53	20.27	
20	DFT-s-OFDM 256QAM	1	1	20.08	20.04	19.89	20.5
20	DFT-s-OFDM 16QAM	1	1	17.95	17.82	17.64	18.5
20	DFT-s-OFDM 64QAM	1	1	16.05	15.87	15.87	17
20	CP-OFDM QPSK	1	1	20.08	19.90	20.12	21
20	CP-OFDM 16QAM	1	1	18.81	18.59	18.52	19.5
20	CP-OFDM 64QAM	1	1	17.03	16.83	16.80	18
20	CP-OFDM 256QAM	1	1	14.30	14.21	14.07	15
Channel				134100	136100	138100	21.5
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	20.51	20.35	20.23	21.5
Channel				133600	136100	138600	21.5
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	20.54	20.28	20.28	21.5
Channel				133100	136100	139100	21.5
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	20.51	20.32	20.30	21.5

n71 (PC3)_30KHz							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	21.5
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.55	20.42	20.26	21.5
20		1	25	20.59	20.30	20.27	
20		1	49	20.40	20.29	20.41	
20		25	1	20.50	20.38	20.33	21.5
20	DFT-s-OFDM QPSK	25	12	20.48	20.45	20.38	
20		25	25	20.51	20.52	20.34	
20		50	0	20.40	20.49	20.27	
20		1	1	20.53	20.60	20.54	21.5
20	DFT-s-OFDM 16QAM	1	25	20.46	20.30	20.32	
20		1	49	20.45	20.32	20.27	
20		25	1	20.55	20.59	20.53	21.5
20		25	12	20.56	20.44	20.39	
20	DFT-s-OFDM 64QAM	25	25	20.53	20.44	20.42	
20		50	0	20.41	20.50	20.34	21
20		1	1	20.16	20.07	19.98	
20		1	1	18.00	17.93	17.75	18.5
20	DFT-s-OFDM 256QAM	1	1	15.85	15.74	15.63	16.5
20	CP-OFDM QPSK	1	1	19.99	19.94	19.79	20.5
20	CP-OFDM 16QAM	1	1	18.56	18.45	18.32	19
20	CP-OFDM 64QAM	1	1	16.90	16.72	16.56	17.5
20	CP-OFDM 256QAM	1	1	14.20	14.09	13.94	15
Channel				134100	136100	138100	21.5
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	20.50	20.45	20.30	21.5
Channel				133600	136100	138600	21.5
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	20.40	20.34	20.25	21.5

n77(3450-3550MHz) (PC2)_SCS 15KHz_ANT 3& ANT 5									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				631668	632500	633334	634166	635000	13.50
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM PI/2 BPSK	1	1	12.28	12.20	12.08	11.96	11.95	13.50
50		1	135	12.20	12.16	12.13	11.96	11.89	
50		1	268	11.96	11.84	11.69	11.81	12.09	
50		135	1	12.22	12.12	12.06	12.01	11.86	
50		135	67	12.22	12.17	12.16	12.00	11.89	
50		135	135	12.12	12.15	11.95	11.87	11.95	
50	DFT-s-OFDM QPSK	270	0	12.18	12.10	12.11	11.97	11.84	13.50
50		1	1	12.42	12.40	12.62	12.51	12.59	
50		1	135	12.24	12.12	12.16	11.94	11.85	
50		1	268	11.98	11.83	11.71	11.82	12.10	
50		135	1	12.27	12.15	12.07	12.03	11.88	
50		135	67	12.25	12.20	12.19	11.98	11.92	
50	DFT-s-OFDM 16QAM	135	135	12.16	12.15	11.98	11.87	11.96	13.00
50		270	0	12.19	12.14	12.14	11.96	11.87	
50		1	1	11.33	11.15	11.00	10.87	10.89	
50		1	1	9.84	9.77	9.61	9.47	9.50	
50	DFT-s-OFDM 64QAM	1	1	8.00	7.94	7.78	7.69	7.67	9.00
50	DFT-s-OFDM 256QAM	1	1	8.00	7.94	7.78	7.69	7.67	9.00
50	CP-OFDM QPSK	1	1	11.75	11.67	11.52	11.44	11.41	12.50
50	CP-OFDM 16QAM	1	1	10.30	10.18	10.05	9.95	9.90	11.00
50	CP-OFDM 64QAM	1	1	9.19	9.08	8.96	8.85	8.81	10.00
50	CP-OFDM 256QAM	1	1	5.99	5.91	5.76	5.68	5.65	7.00
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.44	12.28	12.36	12.29	12.41	24.50
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	12.24	12.03	11.91	11.70	11.58	13.50
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.31	12.03	11.94	11.68	11.64	13.50
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.31	12.07	11.97	11.67	11.78	13.50

n77(3450-3550MHz) (PC2)_SCS 30KHz_ANT 3& ANT 5									
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			12.35			13.00
100		1	136			12.01			
100		1	271			11.40			
100		135	1			12.28			13.00
100		135	67			12.04			
100		135	136			11.67			
100	DFT-s-OFDM QPSK	270	0			11.89			13.50
100		1	1			12.65			
100		1	136			12.16			
100		1	271			11.42			13.50
100		135	1			12.45			
100		135	67			12.21			
100	DFT-s-OFDM 16QAM	135	136			12.09			11.50
100		270	0			11.93			
100		1	1			10.57			
100		1	1			9.11			10.00
100		1	1			7.45			8.50
100	DFT-s-OFDM 64QAM	1	1			11.11			12.00
100	DFT-s-OFDM 256QAM	1	1			9.63			10.50
100	CP-OFDM QPSK	1	1			8.54			9.50
100	CP-OFDM 16QAM	1	1			5.33			6.50
100	CP-OFDM 64QAM	1	1						
100	CP-OFDM 256QAM	1	1						
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.71	11.66	11.63	11.59	11.59	13.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.90	11.83	11.80	11.74	11.67	13.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.01	11.94	11.87	11.77	11.71	13.00
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.07	11.97	11.87	11.72	11.75	13.00
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	12.24	12.16	12.02	11.93	11.90	13.00
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.97	11.80	11.66	11.60	11.42	13.00
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	12.26	12.03	11.89	11.68	11.57	13.00
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.32	12.07	11.96	11.69	11.70	13.00
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.17	12.10	11.99	11.69	11.82	13.00

n77(3700-3980MHz) (PC2)_SCS 15KHz_ANT 3& ANT 5									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				648334	652168	656000	659832	663666	13.50
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM PI/2 BPSK	1	1	12.16	12.32	12.22	12.40	12.15	13.50
50		1	135	12.70	12.36	12.64	12.56	12.45	
50		1	268	12.37	12.32	12.40	12.22	12.40	
50		135	1	12.52	12.35	12.42	12.62	12.39	13.50
50		135	67	12.73	12.38	12.70	12.61	12.49	
50		135	135	12.59	12.37	12.52	12.40	12.46	
50	DFT-s-OFDM QPSK	270	0	12.69	12.38	12.68	12.61	12.50	13.50
50		1	1	12.18	12.31	12.76	12.40	12.17	
50		1	135	12.74	12.37	12.68	12.58	12.47	
50		1	268	12.42	12.29	12.36	12.20	12.36	13.50
50		135	1	12.54	12.35	12.65	12.52	12.41	
50		135	67	12.21	12.36	12.55	12.35	12.55	
50	DFT-s-OFDM 16QAM	135	135	12.60	12.43	12.55	12.40	12.48	13.50
50		270	0	12.70	12.39	12.70	12.62	12.49	
50	DFT-s-OFDM 64QAM	1	1	11.04	11.15	11.09	11.51	11.25	12.50
50	DFT-s-OFDM 256QAM	1	1	9.67	9.76	9.66	9.83	9.51	10.50
50	CP-OFDM QPSK	1	1	7.71	7.93	7.81	7.74	7.50	8.50
50	CP-OFDM 16QAM	1	1	11.62	11.78	11.71	11.87	11.62	12.50
50	CP-OFDM 64QAM	1	1	10.08	10.13	10.29	10.56	10.32	11.50
50	CP-OFDM 256QAM	1	1	8.90	9.14	9.11	9.08	8.83	10.00
50	CP-OFDM 256QAM	1	1	5.79	5.91	5.85	5.75	5.48	7.00
Channel				648000	652000	656000	660000	664000	13.50
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	11.79	11.88	11.87	12.13	11.90	13.50
Channel				647334	651668	656000	660332	664666	13.50
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	12.06	12.14	12.30	12.26	12.46	13.50
Channel				647168	651584	656000	660416	664832	13.50
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	12.08	12.13	12.32	12.19	12.54	13.50
Channel				647000	651500	656000	660500	665000	13.50
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	12.13	12.18	12.43	12.22	12.64	13.50

n77(3700-3980MHz) (PC2)_SCS 30KHz_ANT 3& ANT 5									
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	13.50
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM P1/2 BPSK	1	1	11.46	11.59	11.58	11.82	11.22	13.50
100		1	136	12.46	12.44	12.66	12.48	11.94	
100		1	271	11.73	11.87	11.77	11.71	11.63	
100		135	1	12.45	12.19	12.24	12.29	12.36	
100		135	67	12.43	12.48	12.66	12.62	12.49	
100		135	136	12.15	12.26	12.21	12.29	12.59	
100	DFT-s-OFDM QPSK	270	0	12.25	12.34	12.51	12.54	12.42	13.50
100		1	1	12.52	12.47	12.83	12.64	12.59	
100		1	136	11.44	11.67	11.62	11.34	11.26	
100		1	271	11.73	11.91	11.81	11.25	11.67	
100		135	1	12.45	12.49	12.82	12.65	12.52	
100		135	67	12.26	12.23	12.36	12.24	12.22	
100	DFT-s-OFDM 16QAM	135	136	12.17	12.26	12.16	12.33	12.64	13.50
100		270	0	12.29	12.36	12.57	12.57	12.47	
100		1	1	10.45	10.71	10.71	10.36	10.28	
100		1	1	8.95	9.01	9.11	9.26	9.08	
100	DFT-s-OFDM 64QAM	1	1	7.35	7.55	7.35	6.91	6.81	8.50
100	DFT-s-OFDM 256QAM	1	1	7.35	7.55	7.35	6.91	6.81	8.50
100	CP-OFDM QPSK	1	1	10.88	11.08	11.13	10.78	10.68	12.00
100	CP-OFDM 16QAM	1	1	9.45	9.63	9.49	9.40	9.27	10.50
100	CP-OFDM 64QAM	1	1	8.23	8.46	8.49	8.22	8.13	9.00
100	CP-OFDM 256QAM	1	1	5.30	5.51	5.26	4.88	4.78	5.50
Channel				649666	652834	656000	659166	662332	13.50
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	12.36	12.24	12.37	12.68	12.36	13.50
Channel				649334	652668	656000	659332	662666	13.50
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	12.35	12.55	12.15	12.28	12.58	13.50
Channel				649000	652500	656000	659500	663000	13.50
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	11.90	12.06	12.10	12.02	12.39	13.50
Channel				648668	652334	656000	659666	663332	13.50
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	12.19	12.04	12.07	11.99	11.91	13.50
Channel				648334	652168	656000	659832	663666	13.50
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	12.15	12.24	12.27	12.27	12.20	13.50
Channel				648000	652000	656000	660000	664000	13.50
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	11.85	11.96	12.01	12.03	12.07	13.50
Channel				647334	651668	656000	660332	664666	13.50
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	12.11	12.18	12.34	12.29	12.48	13.50
Channel				647168	651584	656000	660416	664832	13.50
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	12.17	12.24	12.43	12.30	12.65	13.50
Channel				647000	651500	656000	660500	665000	13.50
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	12.23	12.31	12.54	12.36	12.57	13.50

n78(3450-3550MHz) (PC2)_SCS 15KHz_ANT 5												
RF Band	Modulation	RB num	RB span	Low Channel	Low/Middle Channel	Module Channel	Modulation Channel	High Channel	Turn-up Rate			
Channel				32000	32000	32004	32008	32008	(dBm)			
Frequency (MHz)				3473.02	3487.5	3500.01	3512.45	3525				
50	DFT+OFDM-FSS	1	1	10.31	10.18	10.04	9.94	9.80	11.00			
50		1	125	10.10	10.10	10.10	9.99	9.79				
50		1	256	9.87	9.85	9.85	9.74	9.59				
50		125	1	10.08	10.10	10.08	10.01	9.83				
50		125	87	10.08	10.17	10.10	9.97	9.80				
50	DFT+OFDM-FSS	125	125	10.10	10.10	9.93	9.80	9.68	11.00			
50		256	0	10.10	10.10	10.08	9.87	9.70				
50		1	1	10.02	10.07	10.00	9.79	9.59				
50		1	125	10.23	10.10	10.14	10.05	9.82				
50		1	256	10.04	9.84	9.73	9.63	9.02				
50	DFT+OFDM-OFDM	125	1	10.07	10.10	10.00	10.00	9.80	11.00			
50		125	87	10.27	10.20	10.10	9.97	9.81				
50		125	125	10.10	10.10	9.93	9.80	9.68				
50		256	0	10.10	10.10	10.08	9.87	9.64				
50		256	0	10.10	10.10	10.08	9.87	9.64				
50	DFT+OFDM-100MHz	1	1	9.20	9.10	9.01	8.86	8.87	10.00			
50	DFT+OFDM-100MHz	1	1	7.77	7.70	7.60	7.40	7.38	6.00			
50	DFT+OFDM-200MHz	1	1	9.14	9.00	8.70	8.60	8.70	7.00			
50	CP-OFDM-OFDM	1	1	9.73	9.40	9.40	9.30	9.36	10.00			
50	CP-OFDM-100MHz	1	1	8.50	7.98	8.24	8.12	8.12	6.00			
50	CP-OFDM-200MHz	1	1	7.90	8.80	8.70	8.60	8.60	9.00			
50	CP-OFDM-200MHz	1	1	3.93	3.81	3.64	3.30	3.33	6.00			
Channel				32004	32007	32004	32004	32000	Turn-up Rate			
Frequency (MHz)				3473.01	3487.01	3500.01	3512.01	3525.00	(dBm)			
40	DFT+OFDM-OFDM	1	1	10.02	9.41	9.71	9.85	9.54	11.00			
Channel				32008	32000	32004	32008	32000	Turn-up Rate			
Frequency (MHz)				3480.02	3490	3500.01	3520.02	3540	(dBm)			
20	DFT+OFDM-OFDM	1	1	10.54	10.30	10.00	9.80	9.73	11.00			
Channel				32000	32000	32004	32000	32000	Turn-up Rate			
Frequency (MHz)				3487.0	3478.70	3500.01	3521.01	3542.00	(dBm)			
15	DFT+OFDM-OFDM	1	1	10.50	10.31	10.13	9.80	9.87	11.00			
Channel				32004	32004	32004	32004	32000	Turn-up Rate			
Frequency (MHz)				3480.01	3471.01	3500.01	3522.01	3543.00	(dBm)			
10	DFT+OFDM-OFDM	1	1	10.31	10.30	10.23	9.72	9.93	11.00			

n78(3450-3550MHz) (PC2)_SCS 15KHz_ANT 3												
RF Band	Modulation	RB num	RB span	Low Channel	Low/Middle Channel	Module Channel	Modulation Channel	High Channel	Turn-up Rate			
Channel				32008	32000	32004	32008	32008	(dBm)			
Frequency (MHz)				3473.02	3487.5	3500.01	3512.45	3525				
50	DFT+OFDM-FSS	1	1	10.31	10.18	10.04	9.94	9.80	13.00			
50		1	125	10.10	10.10	10.10	11.86	11.79				
50		1	256	11.87	11.86	11.85	11.74	11.69				
50		125	1	10.08	10.10	10.08	10.01	9.83				
50		125	87	10.08	10.17	10.10	11.97	11.80				
50	DFT+OFDM-FSS	125	125	10.10	10.10	11.93	11.80	11.68	13.00			
50		256	0	10.10	10.10	10.08	11.87	11.70				
50		1	1	10.20	10.23	10.00	12.10	12.01				
50		1	125	12.23	12.10	12.14	12.05	11.82				
50		1	256	10.04	10.04	11.73	11.63	10.02				
50	DFT+OFDM-OFDM	125	1	10.20	10.10	10.00	12.00	11.80	13.00			
50		125	87	10.27	10.20	12.10	11.97	11.81				
50		125	125	10.10	10.10	11.93	11.80	11.68				
50		256	0	10.10	10.10	10.08	11.86	11.64				
50		256	0	10.10	10.10	10.08	11.86	11.64				
50	DFT+OFDM-100MHz	1	1	11.20	11.10	11.01	10.86	10.87	12.00			
50	DFT+OFDM-100MHz	1	1	9.77	9.70	9.45	9.40	9.38	10.00			
50	DFT+OFDM-200MHz	1	1	9.14	9.00	7.70	7.60	7.70	8.00			
50	CP-OFDM-OFDM	1	1	11.73	11.40	11.40	11.30	11.36	12.00			
50	CP-OFDM-100MHz	1	1	10.90	9.98	10.24	10.12	10.12	11.00			
50	CP-OFDM-200MHz	1	1	9.00	9.80	9.70	9.60	9.60	10.00			
50	CP-OFDM-200MHz	1	1	5.93	5.81	5.64	5.30	5.33	7.00			
Channel				32004	32007	32004	32004	32000	Turn-up Rate			
Frequency (MHz)				3473.01	3487.01	3500.01	3512.01	3525.00	(dBm)			
40	DFT+OFDM-OFDM	1	1	10.02	11.41	11.71	11.85	11.54	13.00			
Channel				32008	32000	32004	32008	32000	Turn-up Rate			
Frequency (MHz)				3480.02	3490	3500.01	3520.02	3540	(dBm)			
20	DFT+OFDM-OFDM	1	1	10.54	10.32	10.00	11.90	11.73	13.00			
Channel				32000	32000	32004	32000	32000	Turn-up Rate			
Frequency (MHz)				3487.0	3478.70	3500.01	3521.01	3542.00	(dBm)			
15	DFT+OFDM-OFDM	1	1	10.50	10.31	10.13	11.80	11.87	13.00			
Channel				32004	32004	32004	32004	32000	Turn-up Rate			
Frequency (MHz)				3480.01	3471.01	3500.01	3522.01	3543.00	(dBm)			
10	DFT+OFDM-OFDM	1	1	10.31	10.30	10.23	11.72	11.93	13.00			

n78(3450-3550MHz) (PC2)_SCS 30KHz_ANT 5										
SW Freq	Modulation	RB user	RB start	Low Channel	Low/Middle Channel	Media Channel	Medium/High Channel	High Channel	Turn-up Rate	
Channel										(dBm)
Frequency (MHz)										(dBm)
100	DFT-s-OFDM PDSCH	1	1			9.85			11.00	
100		1	126			10.15				
100		1	271			9.49				
100		155	1			10.12				
100		155	27			9.89				
100		155	126			9.89				
100	DFT-s-OFDM PDSCH	270	0			9.95			11.00	
100		1	1			12.24				
100		1	126			10.15				
100		1	271			10.06				
100		155	1			10.17				
100		155	27			10.03				
100	DFT-s-OFDM PDSCH	155	126			9.77			11.00	
100		155	126			9.77				
100		270	0			10.01				
100		1	1			9.86				
100		1	1			7.18				
100		1	1			9.21				
100	DFT-s-OFDM PDSCH	1	1			9.19			10.00	
100	CP-OFDM PDSCH	1	1			7.81			8.30	
100	CP-OFDM PDSCH	1	1			8.81			7.30	
100	CP-OFDM PDSCH	1	1			3.37			4.30	
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
90	DFT-s-OFDM PDSCH	1	1			9.80	9.74	9.75	9.85	11.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
80	DFT-s-OFDM PDSCH	1	1			10.08	9.95	9.94	9.80	11.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
70	DFT-s-OFDM PDSCH	1	1			10.21	10.13	10.00	9.94	11.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
60	DFT-s-OFDM PDSCH	1	1			10.00	10.01	9.89	9.77	11.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
50	DFT-s-OFDM PDSCH	1	1			10.33	10.15	10.01	9.99	11.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
40	DFT-s-OFDM PDSCH	1	1			10.12	9.38	9.79	9.70	11.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
30	DFT-s-OFDM PDSCH	1	1			10.44	10.25	10.06	9.90	11.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
15	DFT-s-OFDM PDSCH	1	1			10.53	10.36	10.20	9.82	11.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
10	DFT-s-OFDM PDSCH	1	1			10.30	10.29	10.12	9.85	11.00

n78(3450-3550MHz) (PC2)_SCS 30KHz_ANT 3										
SW Freq	Modulation	RB user	RB start	Low Channel	Low/Middle Channel	Media Channel	Medium/High Channel	High Channel	Turn-up Rate	
Channel										(dBm)
Frequency (MHz)										(dBm)
100	DFT-s-OFDM PDSCH	1	1			11.85			13.00	
100		1	126			12.15				
100		1	271			11.49				
100		155	1			12.12				
100		155	27			11.96				
100		155	126			11.89				
100	DFT-s-OFDM PDSCH	270	0			11.85			13.00	
100		1	1			12.24				
100		1	126			12.15				
100		1	271			12.06				
100		155	1			12.17				
100		155	27			12.03				
100	DFT-s-OFDM PDSCH	155	126			11.27			13.00	
100		155	126			11.27				
100		270	0			12.01				
100		1	1			10.86				
100		1	1			9.18				
100		1	1			7.91				
100	CP-OFDM PDSCH	1	1			11.19			12.00	
100	CP-OFDM PDSCH	1	1			9.81			10.80	
100	CP-OFDM PDSCH	1	1			8.91			8.90	
100	CP-OFDM PDSCH	1	1			9.37			8.30	
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
90	DFT-s-OFDM PDSCH	1	1			11.85	11.74	11.75	11.85	13.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
80	DFT-s-OFDM PDSCH	1	1			12.08	11.95	11.93	11.84	13.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
70	DFT-s-OFDM PDSCH	1	1			12.21	12.13	12.00	11.94	13.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
60	DFT-s-OFDM PDSCH	1	1			12.06	12.01	11.89	11.79	13.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
50	DFT-s-OFDM PDSCH	1	1			12.33	12.15	12.01	11.99	13.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
40	DFT-s-OFDM PDSCH	1	1			12.12	11.38	11.79	11.70	13.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
30	DFT-s-OFDM PDSCH	1	1			12.44	12.25	12.06	11.90	13.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
15	DFT-s-OFDM PDSCH	1	1			12.53	12.36	12.20	11.82	13.00
Channel										Turn-up Rate
Frequency (MHz)										(dBm)
10	DFT-s-OFDM PDSCH	1	1			12.30	12.29	12.12	11.85	13.00

n78(3700-3800MHz) (PC2)_SCS 15KHz_ANT 5												
SV (MHz)	Modulation	RB user	RB slot	Low Channel	LowMidle Channel	Midle Channel	MidleHigh Channel	High Channel	Turn-up (dB)			
Channel				86234	86180	85530	85534	85180				
Frequency (MHz)				3725.01	3737.46	3750	3762.51	3774.96				
50	DFT+OFDM PUSCH	1	1	10.06	10.30	10.44	10.33	10.22				
50		1	13	10.02	10.24	10.38	10.30	10.28				
50		1	268	10.25	10.21	10.13	10.17	10.27	11.50			
50		100	1	10.42	10.02	10.00	10.43	10.32				
50		100	87	10.00	10.00	10.45	10.38	10.20				
50		135	135	10.49	10.37	10.30	10.27	10.29	11.50			
50		270	0	10.03	10.40	10.38	10.36	10.20				
50		1	1	10.20	10.20	10.72	10.61	10.62				
50		1	135	10.15	10.28	10.43	10.34	10.31	11.50			
50		1	268	10.30	10.22	10.20	10.19	10.30				
50	DFT+OFDM PUSCH	100	1	10.24	10.02	10.70	10.59	10.62				
50		100	87	10.37	10.80	10.31	10.41	10.38				
50		100	135	10.08	10.40	10.33	10.30	10.31	11.50			
50		270	0	10.02	10.01	10.44	10.40	10.30				
50		1	1	9.17	9.06	9.85	9.82	9.40	10.50			
50		1	1	7.44	7.04	7.80	7.60	7.50	9.50			
50		1	1	5.79	5.95	6.17	6.01	5.90	8.50			
50		1	1	9.45	9.03	9.77	9.64	10.10	12.00			
50		1	1	8.33	8.18	8.32	8.20	8.17	11.00			
50		1	1	8.59	7.90	7.17	7.10	8.00	10.00			
50		1	1	3.80	3.89	4.12	3.98	3.80	6.00			
Channel				84650	84650	85050	85100	85200	Turn-up (dB)			
Frequency (MHz)				3720	3730	3750	3760	3780				
40	DFT+OFDM PUSCH	1	1	9.81	10.04	10.15	9.97	9.83	11.50			
Channel				84734	84650	85050	85134	85200	Turn-up (dB)			
Frequency (MHz)				3710.01	3720.46	3750	3760.01	3780.46				
50		1	1	10.22	10.37	10.44	10.32	10.22	11.50			
Channel				84718	84650	85050	85118	85200	Turn-up (dB)			
Frequency (MHz)				3707.50	3718.46	3750	3771.34	3780.46				
15		1	1	10.24	10.30	10.39	10.32	10.22	11.50			
Channel				84700	84650	85050	85100	85200	Turn-up (dB)			
Frequency (MHz)				3700	3707.5	3750	3770.5	3780				
10		1	1	10.22	10.00	10.42	10.20	10.20	11.50			

n78(3700-3800MHz) (PC2)_SCS 15KHz_ANT 3												
SV (MHz)	Modulation	RB user	RB slot	Low Channel	Low/Middle Channel	Midle Channel	Midle/High Channel	High Channel	Turn-up (dB)			
Channel				84634	84630	85030	85034	85180				
Frequency (MHz)				3725.01	3737.46	3750	3762.51	3774.96				
50	DFT+OFDM PUSCH	1	1	12.06	12.30	12.44	12.33	12.22				
50		1	135	12.02	12.24	12.38	12.35	12.28				
50		1	268	12.25	12.21	12.13	12.17	12.27	13.50			
50		100	1	12.42	12.02	12.00	12.43	12.32				
50		100	87	12.00	12.00	12.45	12.38	12.33				
50		135	135	12.49	12.37	12.30	12.27	12.29	13.50			
50		270	0	12.03	12.40	12.38	12.36	12.20				
50		1	1	12.20	12.20	12.72	12.61	12.63				
50		1	135	12.15	12.28	12.43	12.34	12.31	13.50			
50		1	268	12.30	12.22	12.20	12.19	12.30				
50	DFT+OFDM PUSCH	100	1	12.24	12.02	12.70	12.59	12.52				
50		100	87	12.37	12.80	12.31	12.41	12.38				
50		100	135	12.08	12.40	12.33	12.30	12.31	13.50			
50		270	0	12.02	12.01	12.44	12.40	12.30				
50		1	1	11.17	11.06	11.85	11.82	11.40	13.50			
50		1	1	9.44	9.04	9.80	9.60	9.50	11.50			
50		1	1	7.70	7.90	8.17	8.01	7.90	6.50			
50		1	1	11.45	11.03	11.77	11.64	12.10	13.50			
50		1	1	10.33	10.18	10.32	10.20	10.11				
50		1	1	9.58	9.00	8.17	8.12	8.80	11.50			
50		1	1	5.66	5.89	6.12	5.98	5.80	7.80			
Channel				84630	84630	85030	85100	85200	Turn-up (dB)			
Frequency (MHz)				3720	3730	3750	3760	3780				
40	DFT+OFDM PUSCH	1	1	11.81	12.04	12.15	11.97	11.83	13.50			
Channel				84734	84630	85030	85134	85200	Turn-up (dB)			
Frequency (MHz)				3710.01	3720.46	3750	3760.01	3780.46				
50		1	1	12.22	12.37	12.44	12.32	12.22	13.50			
Channel				84718	84630	85030	85118	85200	Turn-up (dB)			
Frequency (MHz)				3707.50	3718.46	3750	3771.34	3780.46				
15		1	1	12.24	12.30	12.39	12.32	12.22	13.50			
Channel				84700	84630	85030	85100	85200	Turn-up (dB)			
Frequency (MHz)				3700	3707.5	3750	3770.5	3780				
10		1	1	12.22	12.00	12.42	12.20	12.20	13.50			

n78(3700-3800MHz) (PC2)_SCS 30KHz_ANT 5												
SR (MHz)	Modulation	SR (kHz)	SR (kHz)	Use Channel	Localize Channel	Mode Channel	Multiplexing Channel	High Channel	Powerage (dB)			
Channel										(dBm)		
Frequency (MHz)												
160	DFT+OFDM-FM-SSB	0	0			0.00			11.50			
160		0	140			10.30						
160		0	270			0.70						
160		100	0			10.00						
160		100	67			10.30						
160		100	130			10.20			11.50			
160		200	0			10.20						
160		0	1			10.30			11.50			
160		0	270			0.70						
160		100	1			10.30						
160	100	67			10.00			11.50				
160	100	130			10.30							
160	200	0			10.30							
160	DFT+OFDM-16QAM	0	0			0.00				10.50		
160	DFT+OFDM-16QAM	0	0			0.00				9.50		
160	DFT+OFDM-16QAM	0	0			0.00			8.50			
160	CP-OFDM-QPSK	0	0			0.00			12.00			
160	CP-OFDM-16QAM	0	0			7.50			11.00			
160	CP-OFDM-16QAM	0	0			0.40			10.00			
160	CP-OFDM-16QAM	0	0			3.10			0.00			
Channel												
Frequency (MHz)				000000	000000	000000	000100	000000	Powerage (dB)			
Frequency (MHz)				3740.00	3740.31	0700	3743.43	3744.50	(dBm)			
60	DFT+OFDM-QPSK	0	0	0.03	0.00	0.00	0.70	0.70	11.50			
Channel												
Frequency (MHz)				000000	000000	000000	000000	000000	Powerage (dB)			
Frequency (MHz)				3740.00	3740.00	0700	3740.01	3740.00	(dBm)			
60	DFT+OFDM-QPSK	0	0	0.01	0.04	10.01	10.10	10.10	11.50			
Channel												
Frequency (MHz)				000000	000000	000000	000000	000000	Powerage (dB)			
Frequency (MHz)				0700	0700.0	0700	3743.0	3740	(dBm)			
70	DFT+OFDM-QPSK	0	0	10.01	10.10	10.20	10.30	10.30	11.50			
Channel												
Frequency (MHz)				000000	000000	000000	000000	000000	Powerage (dB)			
Frequency (MHz)				3740.00	3740.00	0700	3740.00	3740.00	(dBm)			
60	DFT+OFDM-QPSK	0	0	0.00	10.00	10.10	10.10	10.10	11.50			
Channel												
Frequency (MHz)				000000	000100	000000	000000	000000	Powerage (dB)			
Frequency (MHz)				3740.01	3740.40	0700	3740.01	3740.50	(dBm)			
50	DFT+OFDM-QPSK	0	0	10.00	10.20	10.40	10.31	10.10	11.50			
Channel												
Frequency (MHz)				000000	000000	000000	000000	000000	Powerage (dB)			
Frequency (MHz)				0700	0700	0700	3740	3740	(dBm)			
40	DFT+OFDM-QPSK	0	0	0.00	10.00	10.17	0.00	0.00	11.50			
Channel												
Frequency (MHz)				000100	000000	000000	000100	000000	Powerage (dB)			
Frequency (MHz)				3740.01	3740.00	0700	3740.01	3740.50	(dBm)			
20	DFT+OFDM-QPSK	0	0	10.20	10.00	10.40	10.20	10.21	11.50			
Channel												
Frequency (MHz)				000100	000000	000000	000100	000000	Powerage (dB)			
Frequency (MHz)				3740.00	3740.00	0700	3741.00	3740.00	(dBm)			
10	DFT+OFDM-QPSK	0	0	10.30	10.00	10.40	10.30	10.30	11.50			
Channel												
Frequency (MHz)				000000	000000	000000	000000	000000	Powerage (dB)			
Frequency (MHz)				0700	0700.0	0700	3740.0	3740	(dBm)			
10	DFT+OFDM-QPSK	0	0	10.31	10.00	10.50	10.40	10.41	11.50			

n78(3700-3800MHz) (PC2)_SCS 30KHz_ANT 3											
BS (MHz)	Modulation	RB num	RB num	Low Channel	Low/Mid Channel	Mid Channel	Mid/High Channel	High Channel	Frequency (MHz)		
Channel						8550.00			(GHz)		
Frequency (MHz)						3750					
100	DFT-s-OFDM FSS SPSK	1	1			11.50			11.50		
100		1	136			12.50					
100		1	271			11.75					
100		136	1			12.50					
100		136	67			12.50					
100		136	136			12.50			12.50		
100		271	0			12.50					
100		1	1			12.51			13.50		
100		1	136			12.48					
100		1	271			11.75					
100	136	1			12.50						
100	136	67			12.52						
100	DFT-s-OFDM QPSK	136	136			12.54			13.50		
100		270	0			12.51					
100		DFT-s-OFDM 16QAM	1	1			10.81				12.50
100		DFT-s-OFDM 64QAM	1	1			9.84				11.50
100		DFT-s-OFDM 256QAM	1	1			7.36				8.50
100		CP-OFDM QPSK	1	1			11.04			13.00	
100		CP-OFDM 16QAM	1	1			9.54			12.50	
100		CP-OFDM 64QAM	1	1			8.45			11.00	
100		CP-OFDM 256QAM	1	1			5.18			7.00	
Channel				9180.00	9180.00	9240.00	9240.00	9300.00	Frequency (MHz)		
Frequency (MHz)				2760.00	2767.51	3705	3732.49	3764.99	(GHz)		
30	DFT-s-OFDM QPSK	1	1	11.63	11.63	11.68	11.73	11.78	13.50		
Channel				9300.00	9300.00	9360.00	9360.00	9420.00	Frequency (MHz)		
Frequency (MHz)				2760.00	2764.99	3705	3733.51	3769.99	(GHz)		
30	DFT-s-OFDM QPSK	1	1	11.81	11.84	12.01	12.10	12.16	13.50		
Channel				9500.00	9500.00	9560.00	9560.00	9620.00	Frequency (MHz)		
Frequency (MHz)				3705	3762.5	3705	3737.5	3765	(GHz)		
30	DFT-s-OFDM QPSK	1	1	12.01	12.18	12.25	12.35	12.39	13.50		
Channel				9600.00	9600.00	9660.00	9660.00	9720.00	Frequency (MHz)		
Frequency (MHz)				2760.00	2765.51	3705	3739.99	3769.99	(GHz)		
30	DFT-s-OFDM QPSK	1	1	11.86	12.02	12.15	12.19	12.23	13.50		
Channel				9600.00	9600.00	9660.00	9660.00	9720.00	Frequency (MHz)		
Frequency (MHz)				2735.51	2737.99	3705	3762.51	3774.99	(GHz)		
30	DFT-s-OFDM QPSK	1	1	12.05	12.28	12.42	12.51	12.18	13.50		
Channel				9600.00	9600.00	9660.00	9660.00	9720.00	Frequency (MHz)		
Frequency (MHz)				3705	3705	3705	3705	3765	(GHz)		
40	DFT-s-OFDM QPSK	1	1	11.80	12.08	12.17	11.88	11.88	13.50		
Channel				9670.00	9670.00	9680.00	9670.00	9680.00	Frequency (MHz)		
Frequency (MHz)				2737.51	2739.99	3705	3737.51	3769.99	(GHz)		
30	DFT-s-OFDM QPSK	1	1	12.20	12.63	12.43	12.28	12.21	13.50		
Channel				9670.00	9670.00	9680.00	9670.00	9680.00	Frequency (MHz)		
Frequency (MHz)				2737.52	2739.76	3705	3737.34	3762.46	(GHz)		
15	DFT-s-OFDM QPSK	1	1	12.32	12.63	12.48	12.36	12.32	13.50		
Channel				9670.00	9680.00	9680.00	9680.00	9680.00	Frequency (MHz)		
Frequency (MHz)				3705	3707.5	3705	3712.5	3765	(GHz)		
10	DFT-s-OFDM QPSK	1	1	12.31	12.52	12.30	12.42	12.41	13.50		

CA_41C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	20.40	21.50
40620	40529	40712	QPSK	1	0	0	0	1	0	20.42	21.50
41490	41292	41490	QPSK	1	0	0	0	1	0	20.38	21.50
39750	39750	39948	16QAM	1	0	0	0	1	0	19.65	20.50
40620	40529	40712	16QAM	1	0	0	0	1	0	19.70	20.50
41490	41292	41490	16QAM	1	0	0	0	1	0	19.57	20.50
39750	39750	39948	64QAM	1	0	0	0	1	0	18.66	19.50
40620	40529	40712	64QAM	1	0	0	0	1	0	18.73	19.50
41490	41292	41490	64QAM	1	0	0	0	1	0	18.59	19.50
39750	39750	39948	256QAM	1	0	0	0	1	0	15.36	16.50
40620	40529	40712	256QAM	1	0	0	0	1	0	15.39	16.50
41490	41292	41490	256QAM	1	0	0	0	1	0	15.28	16.50
39750	39750	39948	QPSK	50	0	0	0	1	0	19.29	20.50
40620	40529	40712	QPSK	50	0	0	0	1	0	19.40	20.50
41490	41292	41490	QPSK	50	0	0	0	1	0	19.23	20.50