

Band 2 Ant4 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.07	20.20	20.08			
20	QPSK	1	49	20.04	19.97	19.98	21	0	
20	QPSK	1	99	19.92	19.93	19.99			
20	QPSK	50	0	20.12	20.19	20.03			
20	QPSK	50	24	20.15	20.04	20.04	21	0	
20	QPSK	50	50	20.07	20.01	19.91			
20	QPSK	100	0	20.16	20.17	20.02			
20	16QAM	1	0	20.16	20.11	20.14			
20	16QAM	1	49	20.18	20.12	20.21	21	0	
20	16QAM	1	99	20.17	20.21	20.11			
20	16QAM	50	0	20.21	20.13	20.04			
20	16QAM	50	24	20.20	20.03	20.06			
20	16QAM	50	50	20.07	20.01	19.91	21	0	
20	16QAM	100	0	20.16	20.02	20.05			
20	64QAM	1	0	20.10	20.21	20.20			
20	64QAM	1	49	20.14	20.19	20.04	21	0	
20	64QAM	1	99	20.13	20.09	19.94			
20	64QAM	50	0	20.20	20.11	20.05			
20	64QAM	50	24	20.18	20.04	20.05			
20	64QAM	50	50	20.02	19.98	19.92	20.5	0.5	
20	64QAM	100	0	20.19	20.03	20.05			
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.93	20.12	19.91			
15	QPSK	1	37	19.97	19.97	19.81	21	0	
15	QPSK	1	74	19.83	19.90	19.74			
15	QPSK	36	0	19.92	20.09	20.04			
15	QPSK	36	20	19.95	19.85	20.00	21	0	
15	QPSK	36	39	20.00	20.01	19.88			
15	QPSK	75	0	19.97	20.16	19.94			
15	16QAM	1	0	20.08	20.05	19.97			
15	16QAM	1	37	20.08	20.05	20.19	21	0	
15	16QAM	1	74	20.16	20.11	19.89			
15	16QAM	36	0	20.08	20.06	20.03			
15	16QAM	36	20	20.03	19.97	19.99	21	0	
15	16QAM	36	39	19.90	19.82	19.82			
15	16QAM	75	0	19.99	19.92	19.98			
15	64QAM	1	0	20.11	20.09	20.00			
15	64QAM	1	37	20.06	20.04	20.01	21	0	
15	64QAM	1	74	20.12	20.04	19.80			
15	64QAM	36	0	20.17	20.09	19.91			
15	64QAM	36	20	19.99	19.92	20.01			
15	64QAM	36	39	20.01	19.93	19.86	20.5	0.5	
15	64QAM	75	0	20.09	19.94	19.92			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.85	20.10	20.03			
10	QPSK	1	25	19.94	19.84	19.80	21	0	
10	QPSK	1	49	19.85	19.72	19.84			
10	QPSK	25	0	19.92	20.16	19.95			
10	QPSK	25	12	20.14	19.85	20.02	21	0	
10	QPSK	25	25	20.04	20.00	19.91			
10	QPSK	50	0	20.08	20.05	20.03			
10	16QAM	1	0	20.03	20.05	20.09			
10	16QAM	1	25	19.96	20.11	20.10	21	0	
10	16QAM	1	49	20.00	20.15	20.07			
10	16QAM	25	0	20.14	20.12	20.01			
10	16QAM	25	12	20.02	19.92	19.94	21	0	
10	16QAM	25	25	20.06	19.80	19.79			
10	16QAM	50	0	20.06	20.02	20.02			
10	64QAM	1	0	20.12	20.18	20.17			
10	64QAM	1	25	20.11	20.05	19.83	21	0	
10	64QAM	1	49	19.96	20.06	19.91			
10	64QAM	25	0	20.01	20.09	19.96			
10	64QAM	25	12	19.87	19.85	19.98			
10	64QAM	25	25	19.82	19.86	19.79	20.5	0.5	
10	64QAM	50	0	20.08	19.96	19.86			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.07	20.07	19.96			
5	QPSK	1	12	19.83	19.98	19.83	21	0	
5	QPSK	1	24	19.78	19.72	19.70			
5	QPSK	12	0	20.12	20.10	19.94			
5	QPSK	12	7	19.99	19.95	19.87	21	0	
5	QPSK	12	13	19.87	19.81	19.91			
5	QPSK	25	0	20.06	19.99	19.92			
5	16QAM	1	0	20.04	19.92	20.06			
5	16QAM	1	12	20.00	20.08	20.02	21	0	
5	16QAM	1	24	20.18	20.15	19.97			
5	16QAM	12	0	20.09	20.09	19.83			
5	16QAM	12	7	20.21	19.95	20.05			
5	16QAM	12	13	20.01	20.01	19.84	21	0	
5	16QAM	25	0	20.00	19.87	19.94			
5	64QAM	1	0	20.03	20.05	20.07			
5	64QAM	1	12	19.96	20.14	19.93	21	0	
5	64QAM	1	24	20.01	20.02	19.84			
5	64QAM	12	0	20.12	20.04	20.04			
5	64QAM	12	7	20.04	19.85	19.80			
5	64QAM	12	13	19.86	19.83	19.78	20.5	0.5	
5	64QAM	25	0	20.05	19.95	19.83			
Channel									
Frequency (MHz)									
3	QPSK	1	0	20.07	20.05	19.92			
3	QPSK	1	8	19.96	19.84	19.88	21	0	
3	QPSK	1	14	19.71	19.72	19.91			
3	QPSK	8	0	20.13	20.20	20.04			
3	QPSK	8	4	20.05	19.86	19.90	21	0	
3	QPSK	8	7	19.88	19.87	19.88			
3	QPSK	15	0	19.95	20.04	20.01			
3	16QAM	1	0	19.97	19.90	19.98			
3	16QAM	1	8	20.17	19.96	20.16	21	0	
3	16QAM	1	14	20.15	20.14	20.00			
3	16QAM	8	0	20.07	20.05	19.91			
3	16QAM	8	4	20.15	19.91	20.04	21	0	
3	16QAM	8	7	19.87	19.86	19.77			
3	16QAM	15	0	20.09	20.03	19.80			
3	64QAM	1	0	20.12	20.12	20.11			
3	64QAM	1	8	19.96	20.18	20.02	21	0	
3	64QAM	1	14	20.06	19.90	19.91			
3	64QAM	8	0	20.17	20.03	20.03			
3	64QAM	8	4	20.12	20.00	20.01			
3	64QAM	8	7	19.92	19.99	19.81	20.5	0.5	
3	64QAM	15	0	20.15	19.82	20.04			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	19.85	20.08	19.92			
1.4	QPSK	1	3	20.05	19.83	19.80	21	0	
1.4	QPSK	1	5	19.90	19.83	19.73			
1.4	QPSK	3	0	19.91	20.05	20.05			
1.4	QPSK	3	1	19.94	19.95	20.04			
1.4	QPSK	3	3	19.86	19.85	19.84	21	0	
1.4	QPSK	6	0	20.03	20.03	19.89			
1.4	16QAM	1	0	20.04	19.97	20.05			
1.4	16QAM	1	3	20.13	20.06	20.13			
1.4	16QAM	1	5	20.08	20.04	19.92	21	0	
1.4	16QAM	3	0	20.01	20.11	19.90			
1.4	16QAM	3	1	20.12	19.95	20.06			
1.4	16QAM	3	3	20.04	19.87	19.75			
1.4	16QAM	6	0	20.10	19.91	20.02	21	0	
1.4	64QAM	1	0	20.04	19.99	20.00			
1.4	64QAM	1	3	20.12	20.11	19.91			
1.4	64QAM	1	5	20.07	20.05	19.75			
1.4	64QAM	3	0	20.14	19.93	20.02	21	0	
1.4	64QAM	3	1	19.97	19.89	19.96			
1.4	64QAM	3	3	19.99	19.82	19.90			
1.4	64QAM	6	0	20.15	19.93	19.90	20.5	0.5	

Band 4 Ant4 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	22.18	22.32	22.13			
20	QPSK	1	49	21.85	22.26	22.24	23.5	0	
20	QPSK	1	99	22.15	22.21	22.18			
20	QPSK	50	0	22.13	22.27	22.04			
20	QPSK	50	24	22.07	22.24	22.21	23.5	0	
20	QPSK	50	50	22.08	21.89	21.91			
20	QPSK	100	0	22.21	22.23	22.11			
20	16QAM	1	0	21.97	22.27	21.93			
20	16QAM	1	49	21.83	22.18	22.16	23.5	0	
20	16QAM	1	99	22.12	22.17	22.14			
20	16QAM	50	0	21.06	21.20	21.17			
20	16QAM	50	24	20.96	21.17	21.22	22.5	1	
20	16QAM	50	50	21.21	21.00	21.02			
20	16QAM	100	0	21.14	21.11	21.01			
20	84QAM	1	0	21.24	21.27	21.08			
20	84QAM	1	49	21.04	21.16	21.27	22.5	1	
20	84QAM	1	99	21.12	20.85	21.00			
20	84QAM	50	0	20.07	20.32	20.05			
20	84QAM	50	24	19.98	20.06	20.17	21.5	2	
20	84QAM	50	50	20.02	20.11	20.18			
20	84QAM	100	0	20.26	20.22	19.97			
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	22.00	22.08	22.07			
15	QPSK	1	37	21.76	22.12	22.12	23.5	0	
15	QPSK	1	74	22.03	22.08	22.02			
15	QPSK	36	0	22.01	22.09	21.84			
15	QPSK	36	20	21.89	22.17	22.09	23.5	0	
15	QPSK	36	39	22.02	21.76	21.82			
15	QPSK	75	0	21.96	22.02	22.01			
15	16QAM	1	0	21.91	22.13	22.13	23.5	0	
15	16QAM	1	37	21.63	21.90	21.99			
15	16QAM	1	74	21.90	22.10	21.93			
15	16QAM	36	0	20.81	21.01	20.97			
15	16QAM	36	20	20.88	20.94	21.05	22.5	1	
15	16QAM	36	39	20.99	20.91	20.90			
15	16QAM	75	0	21.04	20.97	20.91			
15	84QAM	1	0	21.13	21.22	20.96			
15	84QAM	1	37	20.97	20.79	20.93	22.5	1	
15	84QAM	1	74	20.92	20.79	20.93			
15	84QAM	36	0	19.92	20.12	19.93			
15	84QAM	36	20	19.76	19.85	19.99	21.5	2	
15	84QAM	36	39	19.94	19.97	20.03			
15	84QAM	75	0	20.08	20.10	19.80			
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	22.13	22.18	21.98			
10	QPSK	1	25	21.79	22.14	22.15	23.5	0	
10	QPSK	1	49	21.91	22.02	22.09			
10	QPSK	25	0	21.97	22.15	21.99	23.5	0	
10	QPSK	25	12	22.01	22.07	22.02			
10	QPSK	25	25	21.97	21.71	21.71			
10	QPSK	50	0	22.08	22.10	21.86			
10	16QAM	1	0	21.78	22.05	21.71			
10	16QAM	1	25	21.64	22.02	21.96	23.5	0	
10	16QAM	1	49	21.93	21.97	21.92			
10	16QAM	25	0	20.89	21.04	21.07			
10	16QAM	25	12	20.76	21.08	21.03	22.5	1	
10	16QAM	25	25	21.03	20.79	20.92			
10	16QAM	50	0	21.07	20.96	20.83			
10	84QAM	1	0	21.11	21.20	21.01			
10	84QAM	1	25	20.87	21.00	21.19	22.5	1	
10	84QAM	1	49	20.93	20.77	20.86			
10	84QAM	25	0	19.97	20.20	19.90			
10	84QAM	25	12	19.85	20.01	20.07	21.5	2	
10	84QAM	25	25	19.92	19.92	19.86			
10	84QAM	50	0	20.18	20.08	20.15			
Channel				19575	20175	20375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	21.96	22.08	22.02			
5	QPSK	1	12	21.69	22.06	22.17	23.5	0	
5	QPSK	1	24	21.91	22.01	22.01			
5	QPSK	12	0	21.97	22.07	21.86			
5	QPSK	12	7	22.01	22.01	22.02	23.5	0	
5	QPSK	12	13	21.98	21.71	21.81			
5	QPSK	25	0	22.14	22.17	22.05			
5	16QAM	1	0	21.84	22.12	21.84	23.5	0	
5	16QAM	1	12	21.62	22.07	22.04			
5	16QAM	1	24	22.01	22.05	22.01			
5	16QAM	12	0	20.82	21.11	21.05			
5	16QAM	12	7	20.77	20.95	21.05	22.5	1	
5	16QAM	12	13	21.03	20.75	20.78			
5	16QAM	25	0	21.00	20.91	20.86			
5	84QAM	1	0	21.06	21.04	20.87			
5	84QAM	1	12	20.85	21.06	21.04	22.5	1	
5	84QAM	1	24	21.04	20.75	20.91			
5	84QAM	12	0	19.96	20.24	19.84			
5	84QAM	12	7	19.86	19.89	20.05	21.5	2	
5	84QAM	12	13	20.01	19.90	19.93			
5	84QAM	25	0	20.12	20.16	19.74			
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	22.04	22.20	22.18			
3	QPSK	1	8	21.71	22.11	22.13	23.5	0	
3	QPSK	1	14	22.01	22.00	22.00			
3	QPSK	8	0	21.94	21.94	21.84	23.5	0	
3	QPSK	8	4	22.02	22.09	22.05			
3	QPSK	8	7	21.96	21.71	21.81			
3	QPSK	15	0	22.01	22.04	22.03			
3	16QAM	1	0	21.84	22.13	21.78			
3	16QAM	1	8	21.73	21.98	21.95	23.5	0	
3	16QAM	1	14	22.05	22.06	22.07			
3	16QAM	8	0	20.87	21.04	20.96			
3	16QAM	8	4	20.91	21.05	21.01	22.5	1	
3	16QAM	8	7	20.98	20.78	20.93			
3	16QAM	15	0	20.95	21.02	20.89			
3	84QAM	1	0	21.13	21.20	21.01			
3	84QAM	1	8	20.90	21.09	21.05	22.5	1	
3	84QAM	1	14	21.05	20.77	20.75			
3	84QAM	8	0	20.00	20.19	19.97			
3	84QAM	8	4	19.87	19.96	20.04	21.5	2	
3	84QAM	8	7	19.95	19.92	19.92			
3	84QAM	15	0	20.21	20.02	19.77			
Channel				19657	20175	20395	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	22.09	22.13	22.01			
1.4	QPSK	1	3	21.79	22.06	22.19	23.5	0	
1.4	QPSK	1	5	21.93	22.13	22.11			
1.4	QPSK	3	0	22.02	22.18	21.89			
1.4	QPSK	3	1	22.00	22.16	21.96			
1.4	QPSK	3	2	22.00	21.82	21.68	23.5	0	
1.4	QPSK	6	0	22.10	22.13	22.05			
1.4	16QAM	1	0	21.91	22.24	22.08			
1.4	16QAM	1	3	21.68	22.04	22.05	23.5	0	
1.4	16QAM	1	5	22.05	22.00	21.98			
1.4	16QAM	3	0	22.05	22.26	22.00			
1.4	16QAM	3	1	22.09	22.19	22.14			
1.4	16QAM	3	3	21.96	22.08	22.18	23.5	0	
1.4	84QAM	1	0	22.01	22.24	22.01			
1.4	84QAM	1	3	21.76	22.09	21.71			
1.4	84QAM	1	5	22.07	22.07	22.05	23.5	0	
1.4	84QAM	3	0	22.08	22.26	22.02			
1.4	84QAM	3	1	22.08	22.11	22.19			
1.4	84QAM	3	3	21.98	22.00	21.87			
1.4	84QAM	6	0	21.10	21.48	21.51	23	0.5	

Band 7 Ant4 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	19.53	19.77	19.45	20.5	0	
20	QPSK	1	49	19.54	19.56	19.59			
20	QPSK	1	99	19.57	19.60	19.64			
20	QPSK	50	0	19.59	19.74	19.63	20.5	0	
20	QPSK	50	24	19.72	19.66	19.72			
20	QPSK	50	50	19.71	19.67	19.64			
20	QPSK	100	0	19.65	19.70	19.67	20.5	0	
20	16QAM	1	0	19.73	19.68	19.72			
20	16QAM	1	49	19.63	19.62	19.66			
20	16QAM	1	99	19.66	19.57	19.62	20.5	0	
20	16QAM	50	0	19.62	19.64	19.65			
20	16QAM	50	24	19.73	19.69	19.73			
20	16QAM	50	50	19.74	19.76	19.59	20.5	0	
20	16QAM	100	0	19.73	19.67	19.73			
20	64QAM	1	0	19.62	19.60	19.71			
20	64QAM	1	49	19.76	19.65	19.63	20.5	0	
20	64QAM	1	99	19.62	19.61	19.60			
20	64QAM	50	0	19.61	19.60	19.63			
20	64QAM	50	24	19.73	19.66	19.71	20.5	0	
20	64QAM	50	50	19.74	19.74	19.70			
20	64QAM	100	0	19.74	19.65	19.72			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	19.33	19.69	19.40	20.5	0	
15	QPSK	1	37	19.35	19.35	19.40			
15	QPSK	1	74	19.39	19.46	19.59			
15	QPSK	36	0	19.39	19.74	19.55	20.5	0	
15	QPSK	36	20	19.68	19.50	19.70			
15	QPSK	36	39	19.71	19.50	19.62			
15	QPSK	75	0	19.63	19.63	19.60	20.5	0	
15	16QAM	1	0	19.58	19.56	19.65			
15	16QAM	1	37	19.62	19.52	19.63			
15	16QAM	1	74	19.63	19.40	19.64	20.5	0	
15	16QAM	36	0	19.55	19.53	19.56			
15	16QAM	36	20	19.71	19.52	19.55			
15	16QAM	36	39	19.64	19.73	19.56	20.5	0	
15	16QAM	75	0	19.74	19.58	19.56			
15	64QAM	1	0	19.54	19.49	19.68			
15	64QAM	1	37	19.74	19.45	19.57	20.5	0	
15	64QAM	1	74	19.49	19.55	19.46			
15	64QAM	36	0	19.51	19.47	19.48			
15	64QAM	36	20	19.54	19.57	19.62	20.5	0	
15	64QAM	36	39	19.53	19.58	19.61			
15	64QAM	75	0	19.60	19.63	19.68			
Channel				20900	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	19.42	19.59	19.38	20.5	0	
10	QPSK	1	25	19.52	19.57	19.60			
10	QPSK	1	49	19.58	19.62	19.62			
10	QPSK	25	0	19.43	19.66	19.63	20.5	0	
10	QPSK	25	12	19.66	19.50	19.61			
10	QPSK	25	25	19.61	19.50	19.65			
10	QPSK	50	0	19.55	19.64	19.50	20.5	0	
10	QPSK	1	0	19.69	19.67	19.62			
10	16QAM	1	25	19.62	19.42	19.60			
10	16QAM	1	49	19.57	19.42	19.46	20.5	0	
10	16QAM	25	0	19.46	19.53	19.59			
10	16QAM	25	12	19.57	19.65	19.69			
10	16QAM	25	25	19.66	19.61	19.41	20.5	0	
10	16QAM	50	0	19.51	19.63	19.54			
10	64QAM	1	0	19.59	19.40	19.56			
10	64QAM	1	25	19.56	19.54	19.53	20.5	0	
10	64QAM	1	49	19.52	19.48	19.51			
10	64QAM	25	0	19.46	19.51	19.63			
10	64QAM	25	12	19.67	19.52	19.73	20.5	0	
10	64QAM	25	25	19.62	19.62	19.58			
10	64QAM	50	0	19.64	19.49	19.60			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.49	19.58	19.23	20.5	0	
5	QPSK	1	12	19.54	19.42	19.47			
5	QPSK	1	24	19.52	19.46	19.52			
5	QPSK	12	0	19.42	19.62	19.56	20.5	0	
5	QPSK	12	7	19.66	19.66	19.50			
5	QPSK	12	13	19.59	19.46	19.63			
5	QPSK	25	0	19.44	19.63	19.59	20.5	0	
5	16QAM	1	0	19.66	19.65	19.69			
5	16QAM	1	12	19.56	19.57	19.54			
5	16QAM	1	24	19.49	19.47	19.44	20.5	0	
5	16QAM	12	0	19.61	19.62	19.43			
5	16QAM	12	7	19.66	19.55	19.62			
5	16QAM	12	13	19.54	19.66	19.40	20.5	0	
5	16QAM	25	0	19.57	19.47	19.73			
5	64QAM	1	0	19.62	19.41	19.73			
5	64QAM	1	12	19.55	19.47	19.61	20.5	0	
5	64QAM	1	24	19.55	19.62	19.39			
5	64QAM	12	0	19.55	19.51	19.53			
5	64QAM	12	7	19.52	19.59	19.62	20.5	0	
5	64QAM	12	13	19.66	19.71	19.54			
5	64QAM	25	0	19.54	19.47	19.60			

Band 12 Ant4 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.58	24.76	24.57	25.5	0	
10	QPSK	1	25	24.54	24.54	24.37			
10	QPSK	1	49	24.58	24.60	24.61			
10	QPSK	25	0	23.57	23.78	23.63	24.5	1	
10	QPSK	25	12	23.76	23.61	23.47			
10	QPSK	25	25	23.65	23.61	23.55			
10	QPSK	50	0	23.70	23.73	23.68	24.5	1	
10	16QAM	1	0	24.13	23.82	23.76			
10	16QAM	1	25	23.76	24.06	23.74			
10	16QAM	1	49	23.75	23.83	24.08	23.5	2	
10	16QAM	25	0	22.66	22.56	22.56			
10	16QAM	25	12	22.81	22.75	22.50			
10	16QAM	25	25	22.69	22.58	22.60	23.5	2	
10	16QAM	50	0	22.70	22.65	22.66			
10	64QAM	1	0	22.71	22.72	22.66			
10	64QAM	1	25	22.59	22.75	22.63	23.5	2	
10	64QAM	1	49	22.61	22.88	22.61			
10	64QAM	25	0	21.69	21.62	21.56			
10	64QAM	25	12	21.79	21.62	21.72	22.5	3	
10	64QAM	25	25	21.64	21.59	21.73			
10	64QAM	50	0	21.71	21.56	21.49			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.50	24.75	24.70	25.5	0	
5	QPSK	1	12	24.71	24.68	24.61			
5	QPSK	1	24	24.72	24.74	24.66			
5	QPSK	12	0	23.79	23.81	23.78	24.5	1	
5	QPSK	12	7	23.77	23.83	23.79			
5	QPSK	12	13	23.89	23.80	23.72	24.5	1	
5	QPSK	25	0	23.86	23.75	23.77			
5	16QAM	1	0	23.63	23.78	23.65			
5	16QAM	1	12	23.86	23.77	23.83	23.5	2	
5	16QAM	1	24	23.73	23.87	23.86			
5	16QAM	12	0	22.86	22.82	22.72			
5	16QAM	12	7	22.77	22.86	22.78	23.5	2	
5	16QAM	12	13	22.67	22.79	22.75			
5	16QAM	25	0	22.86	22.72	22.67			
5	64QAM	1	0	23.07	22.89	23.02	23.5	2	
5	64QAM	1	12	22.75	22.90	22.98			
5	64QAM	1	24	22.81	23.07	23.10			
5	64QAM	12	0	21.86	21.75	21.69	22.5	3	
5	64QAM	12	7	22.02	21.74	21.85			
5	64QAM	12	13	21.75	21.65	21.69			
5	64QAM	25	0	21.78	21.71	21.68	Tune-up limit (dBm)	MPR (dB)	
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.54	24.72	24.55	25.5	0	
3	QPSK	1	8	24.64	24.66	24.50			
3	QPSK	1	14	24.75	24.45	24.58			
3	QPSK	8	0	23.71	23.65	23.67	24.5	1	
3	QPSK	8	4	23.77	23.70	23.63			
3	QPSK	8	7	23.79	23.65	23.68			
3	QPSK	15	0	23.74	23.62	23.55	24.5	1	
3	16QAM	1	0	23.42	23.79	23.62			
3	16QAM	1	8	23.58	23.61	23.72			
3	16QAM	1	14	23.67	23.59	23.78	23.5	2	
3	16QAM	8	0	22.72	22.63	22.46			
3	16QAM	8	4	22.85	22.78	22.79			
3	16QAM	8	7	22.80	22.79	22.69	23.5	2	
3	16QAM	15	0	22.81	22.63	22.64			
3	64QAM	1	0	22.82	22.81	22.55			
3	64QAM	1	8	22.81	22.75	22.59	22.5	3	
3	64QAM	1	14	22.71	22.82	22.87			
3	64QAM	8	0	21.76	21.67	21.70			
3	64QAM	8	4	21.84	21.85	21.83	Tune-up limit (dBm)	MPR (dB)	
3	64QAM	8	7	21.74	21.54	21.72			
3	64QAM	15	0	21.86	21.62	21.51			
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.62	24.70	24.42	25.5	0	
1.4	QPSK	1	3	24.56	24.37	24.60			
1.4	QPSK	1	9	24.48	24.40	24.53			
1.4	QPSK	3	0	24.65	24.40	24.42	24.5	1	
1.4	QPSK	3	1	24.74	24.60	24.58			
1.4	QPSK	3	3	24.53	24.44	24.51			
1.4	QPSK	6	0	23.71	23.50	23.53	24.5	1	
1.4	16QAM	1	0	23.94	23.84	23.64			
1.4	16QAM	1	3	23.65	23.66	23.90			
1.4	16QAM	1	9	23.74	23.80	23.81	23.5	2	
1.4	16QAM	3	0	23.81	23.71	23.66			
1.4	16QAM	3	1	23.67	23.93	23.79			
1.4	16QAM	3	3	23.77	23.65	23.60	23.5	2	
1.4	16QAM	6	0	22.67	22.50	22.46			
1.4	64QAM	1	0	22.84	22.69	22.71			
1.4	64QAM	1	3	23.03	23.00	22.78	22.5	3	
1.4	64QAM	1	9	22.76	22.59	22.68			
1.4	64QAM	3	0	22.74	22.69	22.78			
1.4	64QAM	3	1	22.80	22.88	22.67	22.5	3	
1.4	64QAM	3	3	22.58	22.61	22.60			
1.4	64QAM	6	0	21.60	21.59	21.53			

Band 17 Ant4 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.42	24.74	24.45	25.5	0	
10	QPSK	1	25	24.50	24.45	24.43			
10	QPSK	1	49	24.44	24.51	24.60			
10	QPSK	25	0	23.51	23.67	23.50	24.5	1	
10	QPSK	25	12	23.58	23.53	23.58			
10	QPSK	25	25	23.62	23.61	23.50			
10	QPSK	50	0	23.62	23.66	23.43	24.5	1	
10	16QAM	1	0	23.63	23.51	23.76			
10	16QAM	1	25	23.68	23.64	23.51			
10	16QAM	1	49	23.60	23.70	23.62	23.5	2	
10	16QAM	25	0	22.59	22.58	22.53			
10	16QAM	25	12	22.59	22.43	22.56			
10	16QAM	25	25	22.64	22.73	22.61	23.5	2	
10	16QAM	50	0	22.57	22.64	22.48			
10	64QAM	1	0	22.45	22.50	22.54			
10	64QAM	1	25	22.71	22.57	22.59	23.5	2	
10	64QAM	1	49	22.52	22.54	22.75			
10	64QAM	25	0	21.43	21.70	21.49			
10	64QAM	25	12	21.65	21.60	21.54	22.5	3	
10	64QAM	25	25	21.66	21.55	21.70			
10	64QAM	50	0	21.58	21.52	21.53			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.69	24.67	24.46	25.5	0	
5	QPSK	1	12	24.39	24.48	24.37			
5	QPSK	1	24	24.62	24.53	24.41			
5	QPSK	12	0	23.56	23.63	23.52	24.5	1	
5	QPSK	12	7	23.64	23.63	23.33			
5	QPSK	12	13	23.56	23.56	23.68			
5	QPSK	25	0	23.62	23.53	23.50	24.5	1	
5	16QAM	1	0	23.71	23.73	23.68			
5	16QAM	1	12	23.54	23.38	23.69			
5	16QAM	1	24	23.44	23.51	23.42	23.5	2	
5	16QAM	12	0	22.64	22.73	22.66			
5	16QAM	12	7	22.63	22.71	22.65			
5	16QAM	12	13	22.58	22.69	22.50	23.5	2	
5	16QAM	25	0	22.78	22.88	22.80			
5	64QAM	1	0	22.57	22.55	22.73			
5	64QAM	1	12	22.68	22.61	22.45	22.5	2	
5	64QAM	1	24	22.63	22.74	22.82			
5	64QAM	12	0	21.68	21.77	21.50			
5	64QAM	12	7	21.55	21.81	21.45	22.5	3	
5	64QAM	12	13	21.67	21.63	21.78			
5	64QAM	25	0	21.59	21.43	21.58			

Band 26 Ant4 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	24.42	24.48	24.38	25.5	0	
15	QPSK	1	37	24.36	24.30	24.34			
15	QPSK	1	74	24.38	24.28	24.23			
15	QPSK	36	0	23.62	23.54	23.26			
15	QPSK	36	20	23.30	23.49	23.28	24.5	1	
15	QPSK	36	39	23.31	23.28	23.36			
15	QPSK	75	0	23.39	23.49	23.43			
15	16QAM	1	0	23.35	23.48	23.38			
15	16QAM	1	37	23.34	23.38	23.34	24.5	1	
15	16QAM	1	74	23.29	23.46	23.19			
15	16QAM	36	0	22.44	22.38	22.28			
15	16QAM	36	20	22.40	22.33	22.17			
15	16QAM	36	39	22.35	22.38	22.17	23.5	2	
15	16QAM	75	0	22.42	22.37	22.28			
15	64QAM	1	0	22.32	22.54	22.38			
15	64QAM	1	37	22.21	22.35	22.20			
15	64QAM	1	74	22.33	22.41	22.31	23.5	2	
15	64QAM	36	0	21.43	21.55	21.49			
15	64QAM	36	20	21.33	21.32	21.35			
15	64QAM	36	39	21.36	21.29	21.28			
15	64QAM	75	0	21.32	21.47	21.47	22.5	3	
Channel				26740	26865	26990			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	24.37	24.35	24.35	25.5	0	
10	QPSK	1	25	24.21	24.21	24.25			
10	QPSK	1	49	24.25	24.26	24.07			
10	QPSK	25	0	23.39	23.45	23.11			
10	QPSK	25	12	23.23	23.44	23.23	24.5	1	
10	QPSK	25	25	23.12	23.10	23.35			
10	QPSK	50	0	23.36	23.43	23.32			
10	16QAM	1	0	23.35	23.32	23.20			
10	16QAM	1	25	23.18	23.18	23.18	24.5	1	
10	16QAM	1	49	23.09	23.42	23.07			
10	16QAM	25	0	22.40	22.18	22.21			
10	16QAM	25	12	22.31	22.31	22.07			
10	16QAM	25	25	22.27	22.19	22.09	23.5	2	
10	16QAM	50	0	22.33	22.36	22.16			
10	64QAM	1	0	22.28	22.39	22.26			
10	64QAM	1	25	22.04	22.27	22.15			
10	64QAM	1	49	22.13	22.33	22.14	23.5	2	
10	64QAM	25	0	21.41	21.38	21.39			
10	64QAM	25	12	21.29	21.16	21.20			
10	64QAM	25	25	21.26	21.28	21.18			
10	64QAM	50	0	21.16	21.43	21.34	22.5	3	
Channel				26715	26865	27015			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	24.32	24.39	24.22	25.5	0	
5	QPSK	1	12	24.29	24.24	24.41			
5	QPSK	1	24	24.25	24.20	24.20			
5	QPSK	12	0	23.35	23.54	23.22			
5	QPSK	12	7	23.29	23.45	23.32	24.5	1	
5	QPSK	12	13	23.16	23.19	23.29			
5	QPSK	25	0	23.30	23.37	23.54			
5	16QAM	1	0	23.24	23.32	23.39			
5	16QAM	1	12	23.22	23.34	23.37	24.5	1	
5	16QAM	1	24	23.12	23.33	23.12			
5	16QAM	12	0	22.30	22.41	22.28			
5	16QAM	12	7	22.40	22.33	22.12			
5	16QAM	12	13	22.20	22.25	22.08	23.5	2	
5	16QAM	25	0	22.49	22.30	22.23			
5	64QAM	1	0	22.31	22.51	22.24			
5	64QAM	1	12	22.27	22.31	22.23			
5	64QAM	1	24	22.20	22.38	22.25	23.5	2	
5	64QAM	12	0	21.34	21.43	21.49			
5	64QAM	12	7	21.32	21.32	21.40			
5	64QAM	12	13	21.32	21.33	21.11			
5	64QAM	25	0	21.22	21.40	21.48	22.5	3	
Channel				26705	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	24.43	24.33	24.42	25.5	0	
3	QPSK	1	8	24.21	24.14	24.37			
3	QPSK	1	14	24.39	24.33	24.10			
3	QPSK	8	0	23.43	23.41	23.31			
3	QPSK	8	4	23.21	23.49	23.12	24.5	1	
3	QPSK	8	7	23.21	23.34	23.25			
3	QPSK	15	0	23.30	23.30	23.33			
3	16QAM	1	0	23.23	23.41	23.32			
3	16QAM	1	8	23.13	23.34	23.39	24.5	1	
3	16QAM	1	14	23.24	23.41	23.22			
3	16QAM	8	0	22.38	22.30	22.20			
3	16QAM	8	4	22.28	22.18	22.07			
3	16QAM	8	7	22.28	22.24	22.17	23.5	2	
3	16QAM	15	0	22.46	22.36	22.31			
3	16QAM	1	0	22.22	22.37	22.40			
3	16QAM	1	8	22.26	22.28	22.13			
3	64QAM	1	14	22.34	22.38	22.22	23.5	2	
3	64QAM	8	0	21.40	21.41	21.55			
3	64QAM	8	4	21.19	21.21	21.22			
3	64QAM	8	7	21.43	21.28	21.24			
3	64QAM	15	0	21.34	21.40	21.43	22.5	3	
Channel				26697	26865	27033			
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	24.42	24.46	24.31	25.5	0	
1.4	QPSK	1	3	24.25	24.29	24.26			
1.4	QPSK	1	5	24.23	24.42	24.10			
1.4	QPSK	3	0	24.32	24.43	24.26			
1.4	QPSK	3	1	24.27	24.41	24.28	24.5	1	
1.4	QPSK	3	3	24.40	24.38	24.15			
1.4	QPSK	6	0	23.62	23.34	23.28			
1.4	16QAM	1	0	23.33	23.35	23.15			
1.4	16QAM	1	3	23.17	23.20	23.06	24.5	1	
1.4	16QAM	1	5	23.02	23.21	23.16			
1.4	16QAM	3	0	23.23	23.25	23.21			
1.4	16QAM	3	1	23.26	23.42	23.06			
1.4	16QAM	3	3	23.31	23.18	23.06	23.5	2	
1.4	16QAM	6	0	22.47	22.23	22.18			
1.4	64QAM	1	0	22.33	22.40	22.42			
1.4	64QAM	1	3	22.33	22.27	22.17			
1.4	64QAM	1	5	22.26	22.38	22.04	23.5	2	
1.4	64QAM	3	0	22.29	22.36	22.38			
1.4	64QAM	3	1	22.34	22.45	22.26			
1.4	64QAM	3	3	22.42	22.30	22.17			
1.4	64QAM	6	0	21.51	21.28	21.18	22.5	3	

Band 38 Ant4 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	22	0	
20	QPSK	1	0	21.21	21.47	21.19			
20	QPSK	1	49	21.27	21.15	21.43			
20	QPSK	1	99	21.27	21.10	21.13			
20	QPSK	50	0	20.99	21.29	21.06	22	0	
20	QPSK	50	24	21.16	20.99	21.21			
20	QPSK	50	50	21.09	20.92	20.91			
20	QPSK	100	0	20.81	20.91	20.84			
20	16QAM	1	0	20.96	21.30	21.03	22	0	
20	16QAM	1	49	21.10	20.95	21.28			
20	16QAM	1	99	21.09	20.89	20.87			
20	16QAM	50	0	20.39	20.84	20.50			
20	16QAM	50	24	20.56	20.79	20.65	21.5	0.5	
20	16QAM	50	50	20.66	20.48	20.38			
20	16QAM	100	0	20.57	20.40	20.39			
20	64QAM	1	0	20.45	20.82	20.49			
20	64QAM	1	49	20.60	20.80	20.70	21.5	0.5	
20	64QAM	1	99	20.58	20.41	20.42			
20	64QAM	50	0	19.49	19.81	19.48			
20	64QAM	50	24	19.48	19.76	19.75			
20	64QAM	50	50	19.71	19.58	19.44	20.5	1.5	
20	64QAM	100	0	19.51	19.39	19.38			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	21.00	21.27	20.93	22	0	
15	QPSK	1	37	21.17	21.01	21.21			
15	QPSK	1	74	21.06	20.81	21.01			
15	QPSK	36	0	20.72	21.05	20.83			
15	QPSK	36	20	20.91	20.70	21.09	22	0	
15	QPSK	36	39	20.90	20.82	20.78			
15	QPSK	75	0	20.63	20.64	20.56			
15	16QAM	1	0	20.67	21.06	20.91			
15	16QAM	1	37	20.90	20.85	21.04	22	0	
15	16QAM	1	74	20.84	20.64	20.68			
15	16QAM	36	0	20.11	20.58	20.30			
15	16QAM	36	20	20.44	20.60	20.39			
15	16QAM	36	39	20.40	20.35	20.14	21.5	0.5	
15	16QAM	75	0	20.40	20.14	20.12			
15	64QAM	1	0	20.34	20.66	20.23			
15	64QAM	1	37	20.40	20.67	20.41			
15	64QAM	1	74	20.37	20.26	20.24	21.5	0.5	
15	64QAM	36	0	19.38	19.68	19.21			
15	64QAM	36	20	19.35	19.48	19.45			
15	64QAM	36	39	19.48	19.36	19.26			
15	64QAM	75	0	19.24	19.28	19.27	20.5	1.5	
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.03	21.29	20.96	22	0	
10	QPSK	1	25	21.03	21.02	21.30			
10	QPSK	1	49	21.02	20.81	20.90			
10	QPSK	25	0	20.71	21.14	20.91			
10	QPSK	25	12	20.95	20.87	21.04	22	0	
10	QPSK	25	25	20.87	20.70	20.72			
10	QPSK	50	0	20.57	20.64	20.62			
10	16QAM	1	0	20.83	21.13	20.77			
10	16QAM	1	25	21.00	20.76	21.02	22	0	
10	16QAM	1	49	20.90	20.68	20.64			
10	16QAM	25	0	20.52	20.71	20.33			
10	16QAM	25	12	20.28	20.60	20.37			
10	16QAM	25	25	20.50	20.35	20.33	21.5	0.5	
10	16QAM	50	0	20.29	20.24	20.10			
10	64QAM	1	0	20.29	20.60	20.36			
10	64QAM	1	25	20.37	20.58	20.46			
10	64QAM	1	49	20.47	20.26	20.28	21.5	0.5	
10	64QAM	25	0	19.21	19.61	19.21			
10	64QAM	25	12	19.20	19.48	19.48			
10	64QAM	25	25	19.59	19.43	19.32			
10	64QAM	50	0	19.32	19.11	19.09	20.5	1.5	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	21.04	21.28	20.96	22	0	
5	QPSK	1	12	21.16	21.01	21.14			
5	QPSK	1	24	21.02	20.98	21.00			
5	QPSK	12	0	20.77	21.07	20.81			
5	QPSK	12	7	20.91	20.84	20.95	22	0	
5	QPSK	12	13	20.94	20.68	20.80			
5	QPSK	25	0	20.56	20.81	20.59			
5	16QAM	1	0	20.81	21.01	20.73			
5	16QAM	1	12	20.85	20.71	20.58	22	0	
5	16QAM	1	24	20.62	20.69	20.65			
5	16QAM	12	0	20.15	20.56	20.37			
5	16QAM	12	7	20.35	20.42	20.38			
5	16QAM	12	13	20.39	20.22	20.13	21.5	0.5	
5	16QAM	25	0	20.38	20.19	20.17			
5	64QAM	1	0	20.52	20.70	20.36			
5	64QAM	1	12	20.32	20.61	20.51			
5	64QAM	1	24	20.38	20.26	20.30	21.5	0.5	
5	64QAM	12	0	19.27	19.58	19.24			
5	64QAM	12	7	19.25	19.54	19.52			
5	64QAM	12	13	19.54	19.38	19.25			
5	64QAM	25	0	19.27	19.19	19.21	20.5	1.5	
Channel				37750	38000	38250			
Frequency (MHz)				2570	2595	2620			

Band 41 Ant4 DS14										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.23	21.30	21.62	21.52	21.48	22	0
20	QPSK	1	49	21.46	21.59	21.50	21.37	21.35		
20	QPSK	1	99	21.27	21.32	21.50	21.42	21.34		
20	QPSK	50	0	20.47	20.47	20.68	20.44	20.46		
20	QPSK	50	24	20.37	20.57	20.51	20.53	20.38	22	0
20	QPSK	50	50	20.41	20.54	20.58	20.54	20.36		
20	QPSK	100	0	20.55	20.56	20.69	20.53	20.48		
20	16QAM	1	0	20.48	20.60	20.71	20.55	20.66		
20	16QAM	1	49	20.54	20.60	20.68	20.65	20.57	22	0
20	16QAM	1	99	20.35	20.60	20.48	20.52	20.51		
20	16QAM	50	0	19.86	19.84	20.25	20.01	19.97		
20	16QAM	50	24	19.81	20.13	19.94	20.06	19.78		
20	16QAM	50	50	19.81	20.06	20.08	20.09	19.82	21.5	0.5
20	16QAM	100	0	20.13	20.06	20.10	20.04	20.00		
20	64QAM	1	0	19.93	19.89	20.27	20.02	19.85		
20	64QAM	1	49	19.92	20.11	19.99	19.98	19.82		
20	64QAM	1	99	19.80	19.93	20.05	20.03	19.91	21.5	0.5
20	64QAM	50	0	18.91	18.86	19.19	19.02	18.94		
20	64QAM	50	24	18.77	19.10	18.93	19.03	18.76		
20	64QAM	50	50	18.86	19.05	19.11	19.15	18.82		
20	64QAM	100	0	19.18	19.06	19.12	19.05	19.01		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5		
15	QPSK	1	0	21.05	21.13	21.35	21.28	21.35	22.00	0
15	QPSK	1	37	21.22	21.34	21.27	21.19	21.11		
15	QPSK	1	74	21.09	21.10	21.26	21.15	21.09		
15	QPSK	36	0	20.20	20.29	20.55	20.25	20.28		
15	QPSK	36	20	20.13	20.36	20.29	20.36	20.15	22	0
15	QPSK	36	39	20.21	20.30	20.39	20.37	20.13		
15	QPSK	75	0	20.37	20.41	20.43	20.28	20.32		
15	16QAM	1	0	20.28	20.35	20.49	20.28	20.50		
15	16QAM	1	37	20.28	20.34	20.51	20.47	20.35	22	0
15	16QAM	1	74	20.10	20.42	20.22	20.38	20.28		
15	16QAM	36	0	19.66	19.60	20.02	19.87	19.79		
15	16QAM	36	20	19.67	19.90	19.69	19.83	19.61		
15	16QAM	36	39	19.57	19.81	19.90	19.93	19.61	21.5	0.5
15	16QAM	75	0	19.97	19.83	19.89	19.86	19.82		
15	64QAM	1	0	19.69	19.69	20.03	19.87	19.71		
15	64QAM	1	37	19.74	19.94	19.77	19.81	19.56		
15	64QAM	1	74	19.63	19.67	19.91	19.84	19.69	21.5	0.5
15	64QAM	36	0	18.72	18.69	18.96	18.84	18.70		
15	64QAM	36	20	18.55	18.87	18.70	18.84	18.57		
15	64QAM	36	39	18.70	18.78	18.85	19.02	18.59		
15	64QAM	75	0	18.93	18.83	18.87	18.81	18.80	20.5	1.5
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.98	21.05	21.39	21.34	21.22	22.00	0
10	QPSK	1	25	21.31	21.42	21.32	21.15	21.13		
10	QPSK	1	49	21.13	21.07	21.35	21.19	21.09		
10	QPSK	25	0	20.24	20.31	20.43	20.24	20.26		
10	QPSK	25	12	20.21	20.38	20.36	20.31	20.16	22	0
10	QPSK	25	25	20.15	20.36	20.42	20.29	20.15		
10	QPSK	50	0	20.34	20.35	20.45	20.32	20.31		
10	16QAM	1	0	20.26	20.40	20.50	20.40	20.46		
10	16QAM	1	25	20.31	20.37	20.50	20.45	20.38	22	0
10	16QAM	1	49	20.17	20.45	20.27	20.31	20.28		
10	16QAM	25	0	19.61	19.64	20.09	19.84	19.73		
10	16QAM	25	12	19.63	19.93	19.78	19.87	19.63		
10	16QAM	25	25	19.65	19.90	19.86	19.92	19.64	21.5	0.5
10	16QAM	50	0	19.92	19.82	19.88	19.82	19.76		
10	64QAM	1	0	19.74	19.66	20.04	19.86	19.66		
10	64QAM	1	25	19.71	19.95	19.75	19.77	19.63		
10	64QAM	1	49	19.62	19.68	19.82	19.86	19.75	21.5	0.5
10	64QAM	25	0	18.76	18.64	18.95	18.88	18.74		
10	64QAM	25	12	18.52	18.85	18.69	18.87	18.61		
10	64QAM	25	25	18.70	18.89	18.91	18.92	18.63		
10	64QAM	50	0	19.02	18.97	19.96	19.90	18.76		
Channel				39713	40163	40620	41093	41555		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.03	21.15	21.38	21.34	21.27	22.00	0
5	QPSK	1	12	21.22	21.43	21.25	21.19	21.11		
5	QPSK	1	24	21.05	21.10	21.30	21.21	21.11		
5	QPSK	12	0	20.29	20.28	20.44	20.19	20.26		
5	QPSK	12	7	20.15	20.37	20.30	20.30	20.16	22	0
5	QPSK	12	13	20.16	20.40	20.33	20.32	20.19		
5	QPSK	25	0	20.38	20.34	20.47	20.30	20.33		
5	16QAM	1	0	20.30	20.35	20.50	20.39	20.46		
5	16QAM	1	12	20.34	20.43	20.50	20.41	20.42	22	0
5	16QAM	1	24	20.11	20.42	20.31	20.33	20.35		
5	16QAM	12	0	19.61	19.59	20.05	19.84	19.73		
5	16QAM	12	7	19.56	19.87	19.70	19.82	19.55		
5	16QAM	12	13	19.65	19.86	19.69	19.85	19.57	21.5	0.5
5	16QAM	25	0	19.92	19.91	19.97	19.86	19.75		
5	16QAM	1	0	19.77	19.74	20.02	19.85	19.62		
5	64QAM	1	12	19.73	19.90	19.80	19.75	19.64		
5	64QAM	1	24	19.62	19.79	19.83	19.80	19.74	21.5	0.5
5	64QAM	12	0	18.76	18.64	19.01	18.82	18.78		
5	64QAM	12	7	18.52	18.94	18.76	18.80	18.60		
5	64QAM	12	13	18.63	18.85	18.96	18.91	18.61		
5	64QAM	25	0	18.96	18.84	18.93	18.79	18.84	20.5	1.5

Reduced power level for WWAN-ENDC

Band 2 DSI1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	15.50	15.51	15.42	16.5	0				
20	QPSK	1	49	15.37	15.42	15.34						
20	QPSK	1	99	15.23	15.41	15.36						
20	QPSK	50	0	15.30	15.46	15.44						
20	QPSK	50	24	15.40	15.42	15.25						
20	QPSK	50	50	15.17	15.39	15.31	16.5	0				
20	QPSK	100	0	15.31	15.32	15.23						
20	16QAM	1	0	15.32	15.38	15.20						
20	16QAM	1	49	15.37	15.36	15.15						
20	16QAM	1	99	15.30	15.31	15.11						
20	16QAM	50	0	15.29	15.29	15.29	16.5	0				
20	16QAM	50	24	15.19	15.31	15.29						
20	16QAM	50	50	15.17	15.26	15.23						
20	16QAM	100	0	15.31	15.32	15.30						
20	64QAM	1	0	15.19	15.31	15.16						
20	64QAM	1	49	15.05	15.23	15.05	16.5	0				
20	64QAM	1	99	15.35	15.34	15.33						
20	64QAM	50	0	15.18	15.29	15.07						
20	64QAM	50	24	15.21	15.42	15.20						
20	64QAM	50	50	15.30	15.32	15.24						
20	64QAM	100	0	15.33	15.36	15.32	16.5	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.31	15.33	15.28	16.5	0				
15	QPSK	1	37	15.21	15.40	15.23						
15	QPSK	1	74	15.18	15.27	15.15						
15	QPSK	36	0	15.16	15.33	15.34						
15	QPSK	36	20	15.23	15.21	15.18						
15	QPSK	36	39	15.04	15.27	15.28	16.5	0				
15	QPSK	75	0	15.22	15.31	15.11						
15	16QAM	1	0	15.19	15.13	15.04						
15	16QAM	1	37	15.27	15.27	15.00						
15	16QAM	1	74	15.21	15.15	15.10						
15	16QAM	36	0	15.24	15.08	15.22	16.5	0				
15	16QAM	36	20	15.03	15.11	15.09						
15	16QAM	36	39	15.08	15.22	15.19						
15	16QAM	75	0	15.30	15.32	15.13						
15	64QAM	1	0	15.19	15.13	15.04						
15	64QAM	1	37	15.21	15.14	15.21	16.5	0				
15	64QAM	1	74	15.14	15.33	15.28						
15	64QAM	36	0	15.10	15.29	15.29						
15	64QAM	36	20	15.16	15.25	15.12						
15	64QAM	36	39	15.24	15.34	15.02						
15	64QAM	75	0	15.13	15.22	15.26	16.5	0				
Channel												
Frequency (MHz)												
10	QPSK	1	0	15.48	15.45	15.36	16.5	0				
10	QPSK	1	25	15.21	15.41	15.28						
10	QPSK	1	49	15.09	15.33	15.23						
10	QPSK	25	0	15.18	15.38	15.45						
10	QPSK	25	12	15.23	15.22	15.24						
10	QPSK	25	25	15.06	15.28	15.19	16.5	0				
10	QPSK	50	0	15.07	15.26	15.11						
10	16QAM	1	0	15.28	15.17	15.15						
10	16QAM	1	25	15.20	15.17	15.05						
10	16QAM	1	49	15.25	15.24	15.10						
10	16QAM	25	0	15.17	15.13	15.28	16.5	0				
10	16QAM	25	12	15.11	15.18	15.09						
10	16QAM	25	25	15.01	15.04	15.02						
10	16QAM	50	0	15.11	15.15	15.12						
10	64QAM	1	0	15.04	15.15	15.17						
10	64QAM	1	25	15.16	15.03	15.21	16.5	0				
10	64QAM	1	49	15.21	15.32	15.13						
10	64QAM	25	0	15.01	15.30	15.04						
10	64QAM	25	12	15.12	15.35	15.17						
10	64QAM	25	25	15.08	15.15	15.11						
10	64QAM	50	0	15.11	15.23	15.10	16.5	0				
Channel												
Frequency (MHz)												
5	QPSK	1	0	15.42	15.33	15.25	16.5	0				
5	QPSK	1	12	15.21	15.39	15.35						
5	QPSK	1	24	15.10	15.30	15.36						
5	QPSK	12	0	15.10	15.27	15.28						
5	QPSK	12	7	15.35	15.41	15.21						
5	QPSK	12	13	15.21	15.39	15.13	16.5	0				
5	QPSK	25	0	15.07	15.25	15.07						
5	16QAM	1	0	15.15	15.38	15.15						
5	16QAM	1	12	15.30	15.18	15.12						
5	16QAM	1	24	15.13	15.31	15.32						
5	16QAM	12	0	15.09	15.25	15.11	16.5	0				
5	16QAM	12	7	15.05	15.29	15.26						
5	16QAM	12	13	15.23	15.23	15.17						
5	16QAM	25	0	15.29	15.16	15.10						
5	64QAM	1	0	15.15	15.23	15.09						
5	64QAM	1	12	15.02	15.18	15.23	16.5	0				
5	64QAM	1	24	15.37	15.23	15.31						
5	64QAM	12	0	15.21	15.30	15.32						
5	64QAM	12	7	15.13	15.42	15.01						
5	64QAM	12	13	15.14	15.25	15.03						
5	64QAM	25	0	15.29	15.23	15.19	16.5	0				
Channel												
Frequency (MHz)												
3	QPSK	1	0	15.42	15.36	15.34	16.5	0				
3	QPSK	1	8	15.22	15.40	15.20						
3	QPSK	1	14	15.22	15.39	15.26						
3	QPSK	8	0	15.09	15.37	15.43						
3	QPSK	8	4	15.32	15.30	15.15						
3	QPSK	8	7	15.23	15.23	15.29	16.5	0				
3	QPSK	15	0	15.15	15.32	15.02						
3	16QAM	1	0	15.22	15.18	15.19						
3	16QAM	1	8	15.26	15.35	15.20						
3	16QAM	1	14	15.19	15.30	15.27						
3	16QAM	8	0	15.14	15.21	15.24	16.5	0				
3	16QAM	8	4	15.17	15.17	15.08						
3	16QAM	8	7	15.12	15.27	15.16						
3	16QAM	15	0	15.31	15.19	15.20						
3	64QAM	1	0	15.15	15.16	15.08						
3	64QAM	1	8	15.32	15.10	15.32	16.5	0				
3	64QAM	1	14	15.13	15.30	15.22						
3	64QAM	8	0	15.13	15.08	15.18						
3	64QAM	8	4	15.19	15.27	15.05						
3	64QAM	8	7	15.27	15.19	15.25						
3	64QAM	15	0	15.32	15.32	15.10	16.5	0				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	15.29	15.48	15.26	16.5	0				
1.4	QPSK	1	3	15.37	15.24	15.27						
1.4	QPSK	1	5	15.20	15.39	15.38						
1.4	QPSK	3	0	15.13	15.41	15.30						
1.4	QPSK	3	1	15.33	15.25	15.04						
1.4	QPSK	3	3	15.00	15.22	15.29	16.5	0				
1.4	QPSK	6	0	15.17	15.40	15.12						
1.4	16QAM	1	0	15.25	15.18	15.11						
1.4	16QAM	1	3	15.33	15.25	15.03						
1.4	16QAM	1	5	15.29	15.19	15.10						
1.4	16QAM	3	0	15.25	15.08	15.07	16.5	0				
1.4	16QAM	3	1	15.11	15.26	15.23						
1.4	16QAM	3	3	15.13	15.10	15.13						
1.4	16QAM	6	0	15.27	15.26	15.29						
1.4	64QAM	1	0	15.02	15.30	15.07						
1.4	64QAM	1	5	15.15	15.24	15.22	16.5	0				
1.4	64QAM	1	3	15.00	15.20	15.26						
1.4	64QAM	3	0	15.15	15.17	15.03						
1.4	64QAM	3	1	15.09	15.33	15.23						
1.4	64QAM	3	3	15.09	15.22	15.08						
1.4	64QAM	6	0	15.26	15.14	15.19	16.5	0				

Band 26 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	21.43	21.59	21.43	22.5	0	
15	QPSK	1	37	21.29	21.34	21.29			
15	QPSK	1	74	21.15	21.30	21.33			
15	QPSK	36	0	21.42	21.53	21.52			
15	QPSK	36	20	21.50	21.51	21.29	22.5	0	
15	QPSK	36	39	21.19	21.36	21.36			
15	QPSK	75	0	21.35	21.46	21.25			
15	16QAM	1	0	21.34	21.40	21.18			
15	16QAM	1	37	21.38	21.33	21.15	22.5	0	
15	16QAM	1	74	21.29	21.37	21.18			
15	16QAM	36	0	21.28	21.35	21.38			
15	16QAM	36	20	21.29	21.37	21.32			
15	16QAM	36	39	21.08	21.32	21.18	22.5	0	
15	16QAM	75	0	21.30	21.27	21.20			
15	64QAM	1	0	21.10	21.28	21.27			
15	64QAM	1	37	20.99	21.19	20.98			
15	64QAM	1	74	21.39	21.32	21.22	22.5	0	
15	64QAM	36	0	21.27	21.31	21.08			
15	64QAM	36	20	21.23	21.35	21.13			
15	64QAM	36	39	21.27	21.21	21.14			
15	64QAM	75	0	21.37	21.41	21.23	22.5	0	
Channel				26767	26867	26967			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	21.32	21.32	21.25	22.5	0	
10	QPSK	1	25	21.24	21.20	21.18			
10	QPSK	1	49	21.10	21.30	21.37			
10	QPSK	25	0	21.18	21.31	21.32			
10	QPSK	25	12	21.25	21.38	21.08	22.5	0	
10	QPSK	25	25	21.10	21.27	21.10			
10	QPSK	50	0	21.25	21.28	21.20			
10	16QAM	1	0	21.14	21.20	21.14			
10	16QAM	1	25	21.18	21.20	21.00	22.5	0	
10	16QAM	1	49	21.28	21.19	21.07			
10	16QAM	25	0	21.10	21.30	21.18			
10	16QAM	25	12	21.05	21.31	21.16			
10	16QAM	25	25	21.17	21.15	21.03	22.5	0	
10	16QAM	50	0	21.30	21.16	21.25			
10	64QAM	1	0	21.09	21.17	20.97			
10	64QAM	1	25	20.87	21.14	20.99			
10	64QAM	1	49	21.21	21.24	21.30	22.5	0	
10	64QAM	25	0	21.09	21.22	21.06			
10	64QAM	25	12	21.09	21.23	21.01			
10	64QAM	25	25	21.16	21.22	21.19			
10	64QAM	50	0	21.18	21.26	21.14	22.5	0	
Channel				26769	26869	26969			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	21.39	21.39	21.34	22.5	0	
5	QPSK	1	12	21.37	21.38	21.34			
5	QPSK	1	24	21.11	21.23	21.30			
5	QPSK	12	0	21.22	21.33	21.44			
5	QPSK	12	7	21.40	21.37	21.04	22.5	0	
5	QPSK	12	13	21.09	21.32	21.13			
5	QPSK	25	0	21.06	21.36	21.07			
5	16QAM	1	0	21.11	21.30	21.11			
5	16QAM	1	12	21.22	21.30	20.97	22.5	0	
5	16QAM	1	24	21.21	21.26	20.99			
5	16QAM	12	0	21.13	21.16	21.18			
5	16QAM	12	7	21.12	21.28	21.10			
5	16QAM	12	13	21.15	21.15	21.11	22.5	0	
5	16QAM	25	0	21.12	21.24	21.26			
5	64QAM	1	0	21.02	21.11	21.12			
5	64QAM	1	12	21.02	21.24	20.86			
5	64QAM	1	24	21.30	21.13	21.17	22.5	0	
5	64QAM	12	0	21.15	21.07	20.98			
5	64QAM	12	7	21.17	21.30	21.01			
5	64QAM	12	13	21.25	21.21	21.21			
5	64QAM	25	0	21.13	21.31	21.24	22.5	0	
Channel				26765	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	21.40	21.39	21.42	22.5	0	
3	QPSK	1	8	21.27	21.41	21.23			
3	QPSK	1	14	21.18	21.36	21.22			
3	QPSK	8	0	21.08	21.39	21.44			
3	QPSK	8	4	21.25	21.39	21.26	22.5	0	
3	QPSK	8	7	21.11	21.23	21.09			
3	QPSK	8	3	21.05	21.28	21.08			
3	16QAM	1	0	21.20	21.38	21.08			
3	16QAM	1	8	21.27	21.17	21.01	22.5	0	
3	16QAM	1	14	21.21	21.12	21.04			
3	16QAM	8	0	21.09	21.25	21.25			
3	16QAM	8	4	21.09	21.16	21.14			
3	16QAM	8	7	21.06	21.20	21.01	22.5	0	
3	16QAM	16	0	21.16	21.26	21.27			
3	64QAM	1	0	21.15	21.29	21.03			
3	64QAM	1	8	20.98	21.04	21.02			
3	64QAM	1	14	21.31	21.26	21.17	22.5	0	
3	64QAM	8	0	20.99	21.19	20.94			
3	64QAM	8	4	21.21	21.36	21.09			
3	64QAM	8	7	21.19	21.15	21.05			
3	64QAM	16	0	21.21	21.38	21.13	22.5	0	
Channel				26867	26965	27033			
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	21.45	21.51	21.25	22.5	0	
1.4	QPSK	1	3	21.34	21.31	21.13			
1.4	QPSK	1	5	21.14	21.31	21.23			
1.4	QPSK	3	0	21.09	21.40	21.27			
1.4	QPSK	3	1	21.25	21.40	21.07	22.5	0	
1.4	QPSK	3	3	20.95	21.36	21.26			
1.4	QPSK	6	0	21.21	21.42	21.09			
1.4	16QAM	1	0	21.23	21.24	21.06			
1.4	16QAM	1	3	21.16	21.29	21.03	22.5	0	
1.4	16QAM	1	5	21.10	21.18	21.05			
1.4	16QAM	3	0	21.13	21.12	21.26			
1.4	16QAM	3	1	21.02	21.16	21.30			
1.4	16QAM	3	3	21.01	21.07	21.07	22.5	0	
1.4	16QAM	6	0	21.19	21.18	21.25			
1.4	64QAM	1	0	21.18	21.27	21.17			
1.4	64QAM	1	3	20.99	21.14	20.91			
1.4	64QAM	1	5	21.37	21.18	21.25	22.5	0	
1.4	64QAM	3	0	20.98	21.22	21.00			
1.4	64QAM	3	1	21.01	21.32	21.07			
1.4	64QAM	3	3	21.31	21.16	21.15			
1.4	64QAM	6	0	21.34	21.36	21.12	22.5	0	

Band 66 DS1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				132072	132322	132572						
Frequency (MHz)				1720	1745	1770						
20	QPSK	1	0	17.60	17.78	17.63	18.5	0				
20	QPSK	1	49	17.61	17.58	17.49						
20	QPSK	1	99	17.46	17.72	17.62						
20	QPSK	50	0	17.46	17.68	17.63						
20	QPSK	50	24	17.57	17.62	17.54	18.5	0				
20	QPSK	50	50	17.42	17.64	17.50						
20	QPSK	100	0	17.36	17.66	17.52						
20	QPSK	1	0	17.58	17.56	17.47						
20	16QAM	1	49	17.47	17.86	17.39	18.5	0				
20	16QAM	1	99	17.56	17.40	17.20						
20	16QAM	50	0	17.58	17.54	17.56						
20	16QAM	50	24	17.46	17.54	17.53						
20	16QAM	50	50	17.41	17.51	17.38	18.5	0				
20	16QAM	100	0	17.58	17.61	17.51						
20	16QAM	1	0	17.28	17.50	17.38						
20	16QAM	1	49	17.18	17.50	17.32						
20	8QAM	1	49	17.17	17.48	17.46	18.5	0				
20	8QAM	1	99	17.57	17.48	17.46						
20	8QAM	50	0	17.35	17.53	17.38						
20	8QAM	50	24	17.44	17.53	17.36						
20	8QAM	50	50	17.56	17.53	17.55	18.5	0				
20	8QAM	100	0	17.58	17.59	17.57						
Channel				132047	132322	132597						
Frequency (MHz)				1715	1745	1775				Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	17.75	17.77	17.51	18.5	0				
15	QPSK	1	37	17.67	17.71	17.56						
15	QPSK	1	74	17.40	17.58	17.59						
15	QPSK	36	0	17.38	17.75	17.63						
15	QPSK	36	20	17.68	17.69	17.45	18.5	0				
15	QPSK	36	39	17.29	17.63	17.63						
15	QPSK	75	0	17.48	17.68	17.51						
15	16QAM	1	49	17.48	17.56	17.40						
15	16QAM	1	37	17.45	17.54	17.44	18.5	0				
15	16QAM	1	74	17.56	17.60	17.28						
15	16QAM	36	0	17.38	17.44	17.55						
15	16QAM	36	20	17.32	17.41	17.53						
15	16QAM	36	39	17.36	17.38	17.44	18.5	0				
15	16QAM	75	0	17.60	17.45	17.50						
15	8QAM	1	49	17.48	17.46	17.40						
15	8QAM	1	37	17.23	17.45	17.23						
15	8QAM	1	74	17.65	17.62	17.46	18.5	0				
15	8QAM	36	0	17.36	17.44	17.38						
15	8QAM	36	20	17.37	17.58	17.49						
15	8QAM	36	39	17.42	17.43	17.34						
15	8QAM	75	0	17.53	17.56	17.61						
Channel				132125	132322	132592	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1715	1745	1775						
10	QPSK	1	0	17.63	17.68	17.74	18.5	0				
10	QPSK	1	25	17.66	17.56	17.57						
10	QPSK	1	49	17.36	17.63	17.52						
10	QPSK	25	0	17.43	17.74	17.61						
10	QPSK	25	12	17.62	17.62	17.52	18.5	0				
10	QPSK	25	25	17.27	17.61	17.54						
10	QPSK	50	0	17.48	17.71	17.48						
10	16QAM	1	0	17.59	17.48	17.31						
10	16QAM	1	25	17.59	17.58	17.29	18.5	0				
10	16QAM	1	49	17.51	17.44	17.24						
10	16QAM	25	0	17.42	17.59	17.44						
10	16QAM	25	12	17.45	17.43	17.47						
10	16QAM	25	25	17.32	17.36	17.54	18.5	0				
10	16QAM	50	0	17.48	17.56	17.40						
10	8QAM	1	0	17.39	17.60	17.45						
10	8QAM	1	25	17.17	17.46	17.30						
10	8QAM	1	49	17.55	17.48	17.50	18.5	0				
10	8QAM	25	0	17.31	17.54	17.35						
10	8QAM	25	12	17.33	17.58	17.32						
10	8QAM	25	25	17.61	17.52	17.47						
10	8QAM	50	0	17.53	17.56	17.40						
Channel				131987	132322	132687	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1712.5	1745	1777.5						
5	QPSK	1	0	17.60	17.61	17.73	18.5	0				
5	QPSK	1	12	17.51	17.54	17.44						
5	QPSK	1	24	17.33	17.62	17.45						
5	QPSK	12	0	17.58	17.60	17.70						
5	QPSK	12	7	17.55	17.72	17.55	18.5	0				
5	QPSK	12	13	17.48	17.66	17.48						
5	QPSK	25	0	17.57	17.64	17.40						
5	16QAM	1	0	17.56	17.67	17.33						
5	16QAM	1	12	17.58	17.53	17.30	18.5	0				
5	16QAM	1	24	17.50	17.48	17.35						
5	16QAM	12	0	17.50	17.38	17.46						
5	16QAM	12	7	17.36	17.42	17.52						
5	16QAM	12	13	17.38	17.43	17.40	18.5	0				
5	16QAM	25	0	17.40	17.61	17.58						
5	8QAM	1	0	17.39	17.47	17.33						
5	8QAM	1	12	17.14	17.44	17.28						
5	8QAM	1	24	17.51	17.44	17.51	18.5	0				
5	8QAM	12	0	17.49	17.47	17.28						
5	8QAM	12	7	17.34	17.68	17.33						
5	8QAM	12	13	17.45	17.43	17.40						
5	8QAM	25	0	17.46	17.62	17.63						
Channel				131987	132322	132687	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1711.5	1745	1778.5						
3	QPSK	1	0	17.73	17.60	17.55	18.5	0				
3	QPSK	1	8	17.61	17.54	17.64						
3	QPSK	1	14	17.50	17.56	17.57						
3	QPSK	8	0	17.56	17.73	17.77						
3	QPSK	8	4	17.56	17.62	17.45	18.5	0				
3	QPSK	8	7	17.44	17.58	17.40						
3	QPSK	15	0	17.47	17.63	17.54						
3	16QAM	1	0	17.55	17.49	17.40						
3	16QAM	1	8	17.60	17.46	17.45	18.5	0				
3	16QAM	1	14	17.46	17.61	17.37						
3	16QAM	8	0	17.45	17.43	17.48						
3	16QAM	8	4	17.38	17.62	17.56						
3	16QAM	8	7	17.42	17.36	17.36	18.5	0				
3	16QAM	15	0	17.54	17.52	17.58						
3	8QAM	1	0	17.39	17.50	17.27						
3	8QAM	1	8	17.22	17.53	17.27						
3	8QAM	1	14	17.47	17.56	17.52	18.5	0				
3	8QAM	8	0	17.50	17.54	17.34						
3	8QAM	8	4	17.34	17.62	17.47						
3	8QAM	8	7	17.40	17.53	17.35						
3	8QAM	15	0	17.58	17.53	17.59						
Channel				131979	132322	132685	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1710.7	1745	1779.3						
1.4	QPSK	1	0	17.66	17.74	17.66	18.5	0				
1.4	QPSK	1	3	17.62	17.73	17.57						
1.4	QPSK	1	5	17.42	17.62	17.54						
1.4	QPSK	3	0	17.49	17.77	17.64						
1.4	QPSK	3	1	17.66	17.68	17.45	18.5	0				
1.4	QPSK	3	3	17.31	17.64	17.58						
1.4	QPSK	6	0	17.38	17.59	17.33						
1.4	16QAM	1	0	17.46	17.67	17.35						
1.4	16QAM	1	3	17.60	17.64	17.46	18.5	0				
1.4	16QAM	1	5	17.59	17.41	17.26						
1.4	16QAM	3	0	17.48	17.62	17.56						
1.4	16QAM	3	1	17.48	17.36	17.60						
1.4	16QAM	3	3	17.33	17.44	17.35	18.5	0				
1.4	8QAM	1	0	17.60	17.41	17.45						
1.4	8QAM	1	0	17.30	17.54	17.25						
1.4	8QAM	1	3	17.21	17.34	17.31						
1.4	8QAM	1	5	17.66	17.60	17.61	18.5	0				
1.4	8QAM	3	0	17.46	17.38	17.47						
1.4	8QAM	3	1	17.30	17.70	17.35						
1.4	8QAM	3	3	17.49	17.54	17.44						
1.4	8QAM	6	0	17.42	17.44	17.42	18.5	0				

Band 38 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	17.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	16.85	17.21	16.83	17.5	0	
20	QPSK	1	49	16.77	16.79	16.95			
20	QPSK	1	99	16.89	16.92	16.84			
20	QPSK	50	0	16.90	17.01	16.77			
20	QPSK	50	24	16.81	16.94	16.79	17.5	0	
20	QPSK	50	50	16.89	16.93	16.90			
20	QPSK	100	0	16.94	16.99	16.87			
20	16QAM	1	0	17.02	16.98	16.91			
20	16QAM	1	49	16.81	16.89	16.88	17.5	0	
20	16QAM	1	99	16.96	16.91	16.92			
20	16QAM	50	0	16.78	16.96	16.87			
20	16QAM	50	24	16.96	16.97	16.90			
20	16QAM	50	50	17.06	17.03	16.89	17.5	0	
20	16QAM	100	0	16.91	17.00	16.78			
20	64QAM	1	0	16.54	16.60	16.68			
20	64QAM	1	49	16.78	16.74	16.62			
20	64QAM	1	99	16.83	16.77	16.61	17.5	0	
20	64QAM	50	0	16.89	16.83	16.84			
20	64QAM	50	24	16.90	16.96	16.96			
20	64QAM	50	50	16.89	16.83	16.86			
20	64QAM	100	0	16.93	16.87	16.95			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5	17.5	0	
15	QPSK	1	0	16.72	17.09	16.82			
15	QPSK	1	37	16.85	16.75	16.88			
15	QPSK	1	74	16.74	16.81	16.75			
15	QPSK	36	0	16.83	16.99	16.91	17.5	0	
15	QPSK	36	20	16.92	16.91	16.88			
15	QPSK	36	39	16.94	16.89	16.84			
15	QPSK	75	0	16.92	16.98	16.95			
15	16QAM	1	0	16.99	17.02	16.97	17.5	0	
15	16QAM	1	37	16.77	16.96	16.74			
15	16QAM	1	74	16.80	16.75	16.96			
15	16QAM	36	0	16.80	16.97	16.87			
15	16QAM	36	20	16.86	16.97	16.85	17.5	0	
15	16QAM	36	39	17.02	17.00	16.83			
15	16QAM	75	0	17.03	16.97	16.96			
15	64QAM	1	0	16.59	16.64	16.64			
15	64QAM	1	37	16.83	16.69	16.68	17.5	0	
15	64QAM	1	74	16.78	16.63	16.70			
15	64QAM	36	0	16.78	16.81	16.75			
15	64QAM	36	20	16.89	16.83	16.92			
15	64QAM	36	39	16.91	17.01	16.84	17.5	0	
15	64QAM	75	0	16.86	16.93	16.91			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615	17.5	0	
10	QPSK	1	0	16.74	17.02	16.81			
10	QPSK	1	25	16.87	16.90	16.78			
10	QPSK	1	49	16.79	16.91	16.75			
10	QPSK	25	0	16.83	16.90	16.96	17.5	0	
10	QPSK	25	12	16.95	16.94	16.88			
10	QPSK	25	25	16.93	17.04	16.89			
10	QPSK	50	0	16.86	16.99	16.89			
10	16QAM	1	0	17.01	16.95	17.02	17.5	0	
10	16QAM	1	25	16.87	16.86	16.83			
10	16QAM	1	49	16.84	16.79	16.92			
10	16QAM	25	0	16.84	16.79	16.91			
10	16QAM	25	12	16.98	16.96	16.86	17.5	0	
10	16QAM	25	25	16.89	16.95	16.94			
10	16QAM	50	0	17.01	17.00	16.96			
10	64QAM	1	0	16.56	16.66	16.65			
10	64QAM	1	25	16.85	16.81	16.72	17.5	0	
10	64QAM	1	49	16.78	16.71	16.71			
10	64QAM	25	0	16.87	16.92	16.79			
10	64QAM	25	12	16.96	16.88	17.03			
10	64QAM	25	25	17.01	16.91	16.94	17.5	0	
10	64QAM	50	0	16.94	16.78	17.01			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5	17.5	0	
5	QPSK	1	0	16.71	17.01	16.91			
5	QPSK	1	12	16.86	16.79	16.97			
5	QPSK	1	24	16.84	16.80	16.85			
5	QPSK	12	0	16.84	17.00	16.85	17.5	0	
5	QPSK	12	7	16.85	16.99	16.81			
5	QPSK	12	13	16.90	17.00	16.95			
5	QPSK	25	0	16.98	16.92	16.84			
5	16QAM	1	0	16.88	16.87	16.87	17.5	0	
5	16QAM	1	12	16.87	17.01	16.80			
5	16QAM	1	24	16.84	16.82	16.89			
5	16QAM	12	0	16.83	16.87	16.96			
5	16QAM	12	7	17.00	16.98	16.94	17.5	0	
5	16QAM	12	13	16.96	17.00	17.01			
5	16QAM	25	0	17.03	17.05	16.84			
5	64QAM	1	0	16.58	16.58	16.74			
5	64QAM	1	12	16.73	16.70	16.64	17.5	0	
5	64QAM	1	24	16.69	16.68	16.68			
5	64QAM	12	0	16.88	16.83	16.92			
5	64QAM	12	7	16.85	16.85	17.02			
5	64QAM	12	13	17.00	16.83	16.93	17.5	0	
5	64QAM	25	0	16.80	16.94	16.97			

Band 41 DSI1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490	18.5	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.93	18.00	18.02	17.74	17.75	18.5	0
20	QPSK	1	49	17.94	17.70	17.68	17.63	17.66		
20	QPSK	1	99	17.65	17.77	17.68	17.73	17.72		
20	QPSK	50	0	17.53	17.90	17.93	17.86	17.86	18.5	0
20	QPSK	50	24	17.74	17.76	17.66	17.71	17.49		
20	QPSK	50	50	17.36	17.76	17.67	17.59	17.58		
20	QPSK	100	0	17.63	17.63	17.74	17.61	17.56	18.5	0
20	16QAM	1	0	17.69	17.56	17.54	17.59	17.58		
20	16QAM	1	49	17.75	17.68	17.57	17.73	17.48		
20	16QAM	1	99	17.53	17.72	17.50	17.55	17.31	18.5	0
20	16QAM	50	0	17.64	17.65	17.69	17.68	17.66		
20	16QAM	50	24	17.58	17.54	17.64	17.49	17.71		
20	16QAM	50	50	17.49	17.80	17.68	17.46	17.60	18.5	0
20	16QAM	100	0	17.73	17.70	17.70	17.50	17.50		
20	64QAM	1	0	17.73	17.70	17.73	17.51	17.47		
20	64QAM	1	49	17.57	17.55	17.60	17.47	17.28	18.5	0
20	64QAM	1	99	17.84	17.81	17.76	17.65	17.67		
20	64QAM	50	0	17.49	17.66	17.44	17.61	17.36		
20	64QAM	50	24	17.41	17.87	17.62	17.79	17.61	18.5	0
20	64QAM	50	50	17.68	17.75	17.70	17.62	17.60		
20	64QAM	100	0	17.76	17.87	17.83	17.65	17.69		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	18.50	0
15	QPSK	1	0	17.90	17.97	17.56	17.59	17.65		
15	QPSK	1	37	17.70	17.68	17.51	17.70	17.63		
15	QPSK	1	74	17.62	17.66	17.63	17.68	17.50	18.5	0
15	QPSK	36	0	17.56	17.75	17.61	17.76	17.58		
15	QPSK	36	20	17.61	17.73	17.79	17.58	17.57		
15	QPSK	36	39	17.32	17.57	17.63	17.52	17.46	18.5	0
15	QPSK	75	0	17.61	17.68	17.64	17.55	17.38		
15	16QAM	1	0	17.52	17.56	17.42	17.63	17.30		
15	16QAM	1	37	17.75	17.50	17.47	17.57	17.44	18.5	0
15	16QAM	1	74	17.53	17.69	17.23	17.49	17.33		
15	16QAM	36	0	17.45	17.59	17.67	17.41	17.48		
15	16QAM	36	20	17.45	17.44	17.44	17.41	17.43	18.5	0
15	16QAM	36	39	17.32	17.69	17.40	17.42	17.48		
15	16QAM	75	0	17.60	17.54	17.50	17.48	17.39		
15	64QAM	1	0	17.54	17.67	17.61	17.41	17.42	18.5	0
15	64QAM	1	37	17.37	17.37	17.53	17.54	17.32		
15	64QAM	1	74	17.76	17.69	17.73	17.49	17.54		
15	64QAM	36	0	17.50	17.59	17.37	17.59	17.23	18.5	0
15	64QAM	36	20	17.50	17.73	17.45	17.63	17.42		
15	64QAM	36	39	17.64	17.65	17.60	17.50	17.39		
15	64QAM	75	0	17.62	17.65	17.64	17.60	17.48		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685	18.50	0
10	QPSK	1	0	17.90	17.79	17.67	17.71	17.65		
10	QPSK	1	25	17.69	17.60	17.61	17.74	17.52		
10	QPSK	1	49	17.62	17.55	17.64	17.71	17.58	18.5	0
10	QPSK	25	0	17.41	17.81	17.74	17.54	17.66		
10	QPSK	25	12	17.58	17.75	17.59	17.60	17.55		
10	QPSK	25	25	17.46	17.60	17.64	17.55	17.44	18.5	0
10	QPSK	50	0	17.42	17.63	17.61	17.57	17.43		
10	16QAM	1	0	17.50	17.63	17.57	17.64	17.50		
10	16QAM	1	25	17.77	17.62	17.35	17.54	17.45	18.5	0
10	16QAM	1	49	17.53	17.53	17.33	17.60	17.26		
10	16QAM	25	0	17.58	17.49	17.54	17.37	17.53		
10	16QAM	25	12	17.38	17.62	17.45	17.61	17.44	18.5	0
10	16QAM	25	25	17.39	17.51	17.56	17.58	17.47		
10	16QAM	50	0	17.61	17.55	17.42	17.52	17.48		
10	64QAM	1	0	17.58	17.75	17.55	17.48	17.39	18.5	0
10	64QAM	1	25	17.45	17.45	17.35	17.50	17.16		
10	64QAM	1	49	17.82	17.73	17.74	17.53	17.57		
10	64QAM	25	0	17.38	17.62	17.33	17.49	17.27	18.5	0
10	64QAM	25	12	17.30	17.94	17.54	17.70	17.41		
10	64QAM	25	25	17.69	17.62	17.68	17.49	17.38		
10	64QAM	50	0	17.51	17.72	17.74	17.61	17.52		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	18.50	0
5	QPSK	1	0	17.70	17.87	17.59	17.82	17.53		
5	QPSK	1	12	17.84	17.69	17.67	17.74	17.65		
5	QPSK	1	24	17.58	17.70	17.78	17.53	17.65	18.5	0
5	QPSK	12	0	17.42	17.73	17.68	17.77	17.75		
5	QPSK	12	7	17.57	17.78	17.70	17.60	17.53		
5	QPSK	12	13	17.46	17.74	17.72	17.68	17.55	18.5	0
5	QPSK	25	0	17.42	17.59	17.59	17.55	17.45		
5	16QAM	1	0	17.47	17.63	17.46	17.52	17.42		
5	16QAM	1	12	17.81	17.44	17.48	17.49	17.29	18.5	0
5	16QAM	1	24	17.44	17.57	17.33	17.44	17.37		
5	16QAM	12	0	17.66	17.44	17.70	17.37	17.44		
5	16QAM	12	7	17.35	17.53	17.48	17.53	17.59	18.5	0
5	16QAM	12	13	17.53	17.55	17.56	17.37	17.39		
5	16QAM	25	0	17.58	17.68	17.49	17.61	17.57		
5	64QAM	1	0	17.56	17.65	17.63	17.44	17.36	18.5	0
5	64QAM	1	12	17.51	17.52	17.50	17.39	17.24		
5	64QAM	1	24	17.83	17.69	17.64	17.47	17.57		
5	64QAM	12	0	17.27	17.69	17.49	17.59	17.37	18.5	0
5	64QAM	12	7	17.45	17.78	17.54	17.64	17.48		
5	64QAM	12	13	17.71	17.70	17.67	17.59	17.33		
5	64QAM	25	0	17.54	17.66	17.76	17.48	17.63		

Band 7 Ant4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350	20.5	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	19.52	19.87	19.27	20.5	0	
20	QPSK	1	49	19.34	19.54	19.33			
20	QPSK	1	99	19.42	19.43	19.53			
20	QPSK	50	0	19.40	19.63	19.20	20.5	0	
20	QPSK	50	24	19.41	19.24	19.48			
20	QPSK	50	50	19.45	19.50	19.50			
20	QPSK	100	0	19.41	19.61	19.40	20.5	0	
20	16QAM	1	0	19.40	19.47	19.57			
20	16QAM	1	49	19.51	19.67	19.52			
20	16QAM	1	99	19.44	19.71	19.59	20.5	0	
20	16QAM	50	0	19.22	19.35	19.48			
20	16QAM	50	24	19.63	19.64	19.66			
20	16QAM	50	50	19.46	19.57	19.55	20.5	0	
20	16QAM	100	0	19.32	19.39	19.59			
20	64QAM	1	0	19.51	19.80	19.51	20.5	0	
20	64QAM	1	49	19.40	19.36	19.35			
20	64QAM	1	99	19.30	19.66	19.33			
20	64QAM	50	0	19.45	19.55	19.57	20.5	0	
20	64QAM	50	24	19.32	19.53	19.47			
20	64QAM	50	50	19.32	19.75	19.75			
20	64QAM	100	0	19.46	19.57	19.55	20.5	0	
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5	20.5	0	
15	QPSK	1	0	19.49	19.49	19.17		20.5	
15	QPSK	1	37	19.34	19.53	19.31			
15	QPSK	1	74	19.29	19.31	19.41	20.5	0	
15	QPSK	36	0	19.43	19.50	19.24			
15	QPSK	36	20	19.26	19.23	19.49			
15	QPSK	36	39	19.31	19.53	19.41	20.5	0	
15	QPSK	75	0	19.36	19.67	19.41			
15	16QAM	1	0	19.35	19.50	19.65			
15	16QAM	1	37	19.50	19.63	19.55	20.5	0	
15	16QAM	1	74	19.34	19.64	19.44			
15	16QAM	36	0	19.29	19.41	19.37			
15	16QAM	36	20	19.49	19.52	19.54	20.5	0	
15	16QAM	36	39	19.37	19.47	19.50			
15	16QAM	75	0	19.21	19.28	19.49			
15	64QAM	1	0	19.44	19.69	19.37	20.5	0	
15	64QAM	1	37	19.29	19.41	19.27			
15	64QAM	1	74	19.32	19.72	19.39			
15	64QAM	36	0	19.53	19.50	19.43	20.5	0	
15	64QAM	36	20	19.38	19.50	19.37			
15	64QAM	36	39	19.40	19.58	19.58			
15	64QAM	75	0	19.47	19.53	19.43	20.5	0	
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565	20.5	0	
10	QPSK	1	0	19.38	19.76	19.31		20.5	
10	QPSK	1	25	19.38	19.40	19.30	20.5	0	
10	QPSK	1	49	19.50	19.41	19.58			
10	QPSK	25	0	19.30	19.59	19.13			
10	QPSK	25	12	19.47	19.25	19.44	20.5	0	
10	QPSK	25	25	19.37	19.54	19.58			
10	QPSK	50	0	19.41	19.62	19.44			
10	16QAM	1	0	19.30	19.43	19.49	20.5	0	
10	16QAM	1	25	19.51	19.75	19.39			
10	16QAM	1	49	19.29	19.77	19.57			
10	16QAM	25	0	19.31	19.32	19.36	20.5	0	
10	16QAM	25	12	19.51	19.48	19.48			
10	16QAM	25	25	19.31	19.56	19.40			
10	16QAM	50	0	19.29	19.26	19.64	20.5	0	
10	64QAM	1	0	19.46	19.67	19.49			
10	64QAM	1	25	19.36	19.34	19.23			
10	64QAM	1	49	19.38	19.67	19.22	20.5	0	
10	64QAM	25	0	19.43	19.51	19.62			
10	64QAM	25	12	19.43	19.53	19.47			
10	64QAM	25	25	19.39	19.65	19.59	20.5	0	
10	64QAM	50	0	19.38	19.56	19.64			
Channel				20775	21100	21425	20.5	0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.38	19.57	19.31	20.5	0	
5	QPSK	1	12	19.42	19.44	19.25			
5	QPSK	1	24	19.35	19.51	19.40			
5	QPSK	12	0	19.32	19.49	19.30	20.5	0	
5	QPSK	12	7	19.27	19.23	19.47			
5	QPSK	12	13	19.45	19.58	19.41			
5	QPSK	25	0	19.33	19.55	19.36	20.5	0	
5	16QAM	1	0	19.43	19.43	19.61			
5	16QAM	1	12	19.42	19.75	19.47			
5	16QAM	1	24	19.51	19.63	19.67	20.5	0	
5	16QAM	12	0	19.13	19.34	19.57			
5	16QAM	12	7	19.51	19.50	19.56			
5	16QAM	12	13	19.38	19.62	19.49	20.5	0	
5	16QAM	25	0	19.24	19.32	19.57			
5	64QAM	1	0	19.52	19.57	19.58			
5	64QAM	1	12	19.47	19.30	19.32	20.5	0	
5	64QAM	1	24	19.23	19.58	19.41			
5	64QAM	12	0	19.33	19.55	19.61			
5	64QAM	12	7	19.35	19.51	19.38	20.5	0	
5	64QAM	12	13	19.26	19.66	19.69			
5	64QAM	25	0	19.37	19.53	19.52			



Uplink CA Power

Ant 0 Full Power			DS11&2								
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	24.25	25.50	
21100	21298	QPSK	1	99	1	0	2	0	24.27	25.50	
21350	21152	QPSK	1	0	1	99	2	0	24.29	25.50	
20850	21048	QPSK	1	49	50	0	2	0	23.46	24.50	
21100	21298	QPSK	1	49	50	0	2	0	23.34	24.50	
21350	21152	QPSK	50	0	1	49	2	0	23.34	24.50	

Ant 0 Full Power			DS11&2								
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	24.53	25.50	
37901	38099	QPSK	1	99	1	0	2	0	24.43	25.50	
38150	37952	QPSK	1	0	1	99	2	0	24.45	25.50	
37850	38048	QPSK	1	49	50	0	2	0	23.74	24.50	
37901	38099	QPSK	1	49	50	0	2	0	23.61	24.50	
38150	37952	QPSK	50	0	1	49	2	0	23.74	24.50	

Ant 4 Full Power		DS12									
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	22.50	23.50	
21100	21298	QPSK	1	99	1	0	2	0	22.58	23.50	
21350	21152	QPSK	1	0	1	99	2	0	22.50	23.50	
20850	21048	QPSK	1	49	50	0	2	0	21.64	22.50	
21100	21298	QPSK	1	49	50	0	2	0	21.50	22.50	
21350	21152	QPSK	50	0	1	49	2	0	21.56	22.50	

Ant 4 Full Power			DS12									
CA 38C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset						
37850	38048	QPSK	1	99	1	0	2	0	22.80	23.50		
37901	38099	QPSK	1	99	1	0	2	0	22.82	23.50		
38150	37952	QPSK	1	0	1	99	2	0	22.71	23.50		
37850	38048	QPSK	1	49	50	0	2	0	21.65	22.50		
37901	38099	QPSK	1	49	50	0	2	0	21.66	22.50		
38150	37952	QPSK	50	0	1	49	2	0	21.59	22.50		

Ant 0 Down Power			DS14								
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	20.13	21.00	
21100	21298	QPSK	1	99	1	0	2	0	20.18	21.00	
21350	21152	QPSK	1	0	1	99	2	0	19.99	21.00	
20850	21048	QPSK	1	49	50	0	2	0	19.99	21.00	
21100	21298	QPSK	1	49	50	0	2	0	20.01	21.00	
21350	21152	QPSK	50	0	1	49	2	0	20.00	21.00	

Ant 0 Down Power			DS14								
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	20.89	22.00	
37901	38099	QPSK	1	99	1	0	2	0	20.85	22.00	
38150	37952	QPSK	1	0	1	99	2	0	20.82	22.00	
37850	38048	QPSK	1	49	50	0	2	0	20.60	22.00	
37901	38099	QPSK	1	49	50	0	2	0	20.66	22.00	
38150	37952	QPSK	50	0	1	49	2	0	20.58	22.00	

Ant 4 Down Power			DS11								
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	18.27	19.00	
21100	21298	QPSK	1	99	1	0	2	0	18.22	19.00	
21350	21152	QPSK	1	0	1	99	2	0	18.18	19.00	
20850	21048	QPSK	1	49	50	0	2	0	18.14	19.00	
21100	21298	QPSK	1	49	50	0	2	0	18.11	19.00	
21350	21152	QPSK	50	0	1	49	2	0	18.14	19.00	

Ant 4 Down Power			DS11								
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	19.86	20.50	
37901	38099	QPSK	1	99	1	0	2	0	19.92	20.50	
38150	37952	QPSK	1	0	1	99	2	0	19.90	20.50	
37850	38048	QPSK	1	49	50	0	2	0	19.85	20.50	
37901	38099	QPSK	1	49	50	0	2	0	19.88	20.50	
38150	37952	QPSK	50	0	1	49	2	0	19.78	20.50	

Ant 4 Down Power			DS14								
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	19.58	20.50	
21100	21298	QPSK	1	99	1	0	2	0	19.69	20.50	
21350	21152	QPSK	1	0	1	99	2	0	19.64	20.50	
20850	21048	QPSK	1	49	50	0	2	0	19.72	20.50	
21100	21298	QPSK	1	49	50	0	2	0	19.67	20.50	
21350	21152	QPSK	50	0	1	49	2	0	19.66	20.50	

Ant 4 Down Power			DS14								
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	21.47	22.00	
37901	38099	QPSK	1	99	1	0	2	0	21.28	22.00	
38150	37952	QPSK	1	0	1	99	2	0	21.26	22.00	
37850	38048	QPSK	1	49	50	0	2	0	21.09	22.00	
37901	38099	QPSK	1	49	50	0	2	0	21.19	22.00	
38150	37952	QPSK	50	0	1	49	2	0	21.15	22.00	

Ant 0 Full Power			DS11&2									
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset						
39750	39948	QPSK	1	99	1	0	2	0	24.57	25.50		
40185	40383	QPSK	1	99	1	0	2	0	24.56	25.50		
40620	40818	QPSK	1	99	1	0	2	0	24.65	25.50		
41055	41253	QPSK	1	99	1	0	2	0	24.67	25.50		
41490	41292	QPSK	1	0	1	99	2	0	24.61	25.50		
39750	39948	QPSK	1	49	50	0	2	0	23.61	24.50		
40185	40383	QPSK	1	49	50	0	2	0	23.78	24.50		
40620	40818	QPSK	1	49	50	0	2	0	23.76	24.50		
41055	41253	QPSK	1	49	50	0	2	0	23.70	24.50		
41490	41292	QPSK	50	0	1	49	2	0	23.70	24.50		

Ant 4 Full Power			DS12									
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Sizet	MPR Leve	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset						
39750	39948	QPSK	1	99	1	0	2	0	22.90	23.50		
40185	40383	QPSK	1	99	1	0	2	0	22.88	23.50		
40620	40818	QPSK	1	99	1	0	2	0	22.76	23.50		
41055	41253	QPSK	1	99	1	0	2	0	22.79	23.50		
41490	41292	QPSK	1	0	1	99	2	0	22.88	23.50		
39750	39948	QPSK	1	49	50	0	2	0	21.75	22.50		
40185	40383	QPSK	1	49	50	0	2	0	21.75	22.50		
40620	40818	QPSK	1	49	50	0	2	0	21.84	22.50		
41055	41253	QPSK	1	49	50	0	2	0	21.81	22.50		
41490	41292	QPSK	50	0	1	49	2	0	21.67	22.50		

Ant 0 Down Power			DS14									
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset						
39750	39948	QPSK	1	99	1	0	2	0	22.12	23.00		
40185	40383	QPSK	1	99	1	0	2	0	22.13	23.00		
40620	40818	QPSK	1	99	1	0	2	0	22.14	23.00		
41055	41253	QPSK	1	99	1	0	2	0	21.97	23.00		
41490	41292	QPSK	1	0	1	99	2	0	21.95	23.00		
39750	39948	QPSK	1	49	50	0	2	0	21.98	23.00		
40185	40383	QPSK	1	49	50	0	2	0	21.90	23.00		
40620	40818	QPSK	1	49	50	0	2	0	21.89	23.00		
41055	41253	QPSK	1	49	50	0	2	0	21.94	23.00		
41490	41292	QPSK	50	0	1	49	2	0	22.00	23.00		

Ant 4 Down Power			DS11									
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset						
39750	39948	QPSK	1	99	1	0	2	0	20.76	21.50		
40185	40383	QPSK	1	99	1	0	2	0	20.78	21.50		
40620	40818	QPSK	1	99	1	0	2	0	20.84	21.50		
41055	41253	QPSK	1	99	1	0	2	0	20.92	21.50		
41490	41292	QPSK	1	0	1	99	2	0	20.83	21.50		
39750	39948	QPSK	1	49	50	0	2	0	20.83	21.50		
40185	40383	QPSK	1	49	50	0	2	0	20.72	21.50		
40620	40818	QPSK	1	49	50	0	2	0	20.89	21.50		
41055	41253	QPSK	1	49	50	0	2	0	20.84	21.50		
41490	41292	QPSK	50	0	1	49	2	0	20.68	21.50		

Ant 4 Down Power			DS14									
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset						
39750	39948	QPSK	1	99	1	0	2	0	21.55	22.00		
40185	40383	QPSK	1	99	1	0	2	0	21.41	22.00		
40620	40818	QPSK	1	99	1	0	2	0	21.44	22.00		
41055	41253	QPSK	1	99	1	0	2	0	21.41	22.00		
41490	41292	QPSK	1	0	1	99	2	0	21.62	22.00		
39750	39948	QPSK	1	49	50	0	2	0	20.63	22.00		
40185	40383	QPSK	1	49	50	0	2	0	20.67	22.00		
40620	40818	QPSK	1	49	50	0	2	0	20.58	22.00		
41055	41253	QPSK	1	49	50	0	2	0	20.57	22.00		
41490	41292	QPSK	50	0	1	49	2	0	20.58	22.00		

2CA DL

Configure	PCC								SCC				Power	
	LTE	Ant	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
	Band		(MHz)	Freq	Channel		RB	Offset	Band	(MHz)	Freq	Channel	Tx. Power	Tx. Power
			(MHz)	(dBm)							(dBm)			
CA_2C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	23.12	23.31
	Band 2	Ant4	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	22.54	22.53
	Band 4	Ant0	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	24.07	24.25
	Band 4	Ant4	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	23.40	23.46
	Band 17	Ant0	10M	710	23790	QPSK	1	0	Band 4	20M	2132.5	2175	24.47	24.68
	Band 17	Ant4	10M	710	23790	QPSK	1	0	Band 4	20M	2132.5	2175	24.65	24.74
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 41	20M	2598	40670	24.36	24.35
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	Band 41	20M	2598	40670	24.36	24.41
CA_5A-41A	Band 41	Ant0	20M	2598	40670	QPSK	1	0	Band 5	10M	881.5	2525	24.56	24.68
	Band 41	Ant4	20M	2598	40670	QPSK	1	0	Band 5	10M	881.5	2525	22.76	22.89
CA_7C	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	24.32	24.39
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	22.61	22.67
CA_7A-26A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	24.22	24.39
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	22.48	22.67
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0	Band 7	20M	2655	3100	24.34	24.44
	Band 26	Ant4	15M	831.5	26865	QPSK	1	0	Band 7	20M	2655	3100	24.36	24.48
CA_38C	Band 38	Ant0	20M	2595	38000	QPSK	1	0	Band 38	20M	2617.5	38225	24.67	24.64
	Band 38	Ant4	20M	2595	38000	QPSK	1	0	Band 38	20M	2617.5	38225	22.70	22.85
CA_41C	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	24.59	24.68
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	22.70	22.89
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	23.31	23.35
	Band 66	Ant4	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	22.53	22.55
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	23.33	23.35
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	22.36	22.55

3CA DL

Configure	PCC							SCC1				SCC2				Power		
	LTE	Ant	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band		(MHz)	Freq	Channel		RB	RB Offset	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx. Power	Tx. Power
			(MHz)	(MHz)	(MHz)					(MHz)	(dBm)	(dBm)						
CA_2A_4A_5A	Band 2	An10	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	23.23	23.31
	Band 2	An14	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	22.83	22.83
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	24.15	24.25
	Band 4	An14	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.43	23.46
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	24.05	24.25
	Band 4	An14	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.44	23.46
	Band 5	An10	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.19	24.35
	Band 5	An14	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.20	24.41
CA_2A_4A_7A	Band 2	An10	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	23.15	23.31
	Band 2	An14	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	22.45	22.83
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	24.14	24.25
	Band 4	An14	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	23.26	23.46
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	24.04	24.25
	Band 4	An14	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	23.26	23.46
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.23	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.48	22.67
CA_2A_7A_7A	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.23	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.49	22.67
	Band 2	An10	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 5	5M	2687.5	3425	23.18	23.31
	Band 2	An14	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 5	5M	2687.5	3425	22.41	22.83
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.30	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	22.69	22.67
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.17	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	22.64	22.67
CA_2A_4A_12A	Band 2	An10	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	23.10	23.31
	Band 2	An14	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	22.47	22.83
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	24.07	24.25
	Band 4	An14	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	23.34	23.46
	Band 12	An10	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.66	24.69
	Band 12	An14	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.77	24.76
	Band 2	An10	20M	1880	18900	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	23.21	23.31
	Band 2	An14	20M	1880	18900	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	22.35	22.83
CA_2A-12A-66A	Band 12	An10	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	24.48	24.69
	Band 12	An14	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	24.66	24.76
	Band 66	An10	20M	1745	132322	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	23.30	23.35
	Band 66	An14	20M	1745	132322	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	22.43	22.85
	Band 2	An10	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.23	23.31
	Band 2	An14	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.43	22.83
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.19	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	22.55	22.67
CA_4A_7C	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.29	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	22.47	22.67
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.14	24.25
	Band 4	An14	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.35	23.46
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.08	24.25
	Band 4	An14	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.30	23.46
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	24.22	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	22.62	22.67
CA_5A_7A_7A	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	24.22	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	22.62	22.67
	Band 5	An10	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.37	24.35
	Band 5	An14	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.37	24.41
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.27	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	22.96	22.67
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.18	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	22.60	22.67
CA_5A_7C	Band 5	An10	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.31	24.35
	Band 5	An14	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.28	24.41
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	24.19	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	22.52	22.67
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	24.26	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	22.55	22.67
	Band 5	An10	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2145	66786	24.16	24.35
	Band 5	An14	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2145	66786	24.34	24.41
CA_5A_7A_66A	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	24.28	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	22.59	22.67
	Band 7	An10	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	24.31	24.39
	Band 7	An14	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	22.54	22.67
	Band 66	An10	20M	1745	132322	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	<				



n5 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167300	167800	25.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	25.16	25.24	25.19			
20	PI2 BPSK	1	53	25.11	25.22	25.17	25.5	0.0	
20	PI2 BPSK	1	104	25.07	25.01	24.96			
20	PI2 BPSK	50	0	24.71	24.64	24.62		0.5	
20	PI2 BPSK	50	28	25.23	25.14	25.07	25.0	0.5	
20	PI2 BPSK	50	56	24.62	24.57	24.47			
20	PI2 BPSK	100	0	24.09	24.68	24.64			
20	QPSK	1	1	25.19	25.25	25.18	25.5	0.0	
20	QPSK	1	53	25.23	25.20	25.12			
20	QPSK	1	104	24.90	24.94	24.98		1.0	
20	QPSK	50	0	24.21	24.19	24.13	25.5	0.0	
20	QPSK	50	28	25.21	25.28	25.18			
20	QPSK	50	56	24.16	24.18	24.13		1.0	
20	QPSK	100	0	24.10	24.16	24.08	24.5	1.0	
20	16QAM	1	1	24.13	24.17	24.09			
20	64QAM	1	1	22.81	22.90	22.85		2.5	
20	256QAM	1	1	20.55	20.56	20.48	21.0	4.5	
Channel				166300	167300	168300	25.5	0.0	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	25.14	25.17	25.17		20.5	
Channel				165200	167300	169300	25.5	0.0	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	25.06	25.23	25.01		25.5	
Channel				165300	167300	169300	25.5	0.0	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	25.04	25.23	25.14		25.5	

Full Power level/Default Power level for 5G NR									
n7 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000	25.5	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	24.48	24.58	24.60			
20	PI2 BPSK	1	53	24.52	24.59	24.52	25.0	0.5	
20	PI2 BPSK	1	104	24.54	24.62	24.60			
20	PI2 BPSK	50	0	24.04	24.09	24.13		0.5	
20	PI2 BPSK	50	28	24.62	24.64	24.56	25.0	0.5	
20	PI2 BPSK	50	56	23.99	24.09	24.07			
20	PI2 BPSK	100	0	24.15	24.18	24.17			
20	QPSK	1	1	24.60	24.65	24.59	25.5	0.0	
20	QPSK	1	53	24.39	24.42	24.38			
20	QPSK	1	104	24.60	24.62	24.56		1.0	
20	QPSK	50	0	23.80	23.78	23.72	24.5	1.0	
20	QPSK	50	28	24.47	24.64	24.62			
20	QPSK	50	56	23.77	23.67	23.57		1.0	
20	QPSK	100	0	23.72	23.74	23.68	24.5	1.0	
20	16QAM	1	1	23.48	23.51	23.43			
20	64QAM	1	1	22.30	22.28	22.34		2.5	
20	256QAM	1	1	19.90	19.95	19.90	21.0	4.5	
Channel				501600	507000	512500	25.5	0.0	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	24.38	24.60	24.49		25.5	
Channel				501000	507000	513000	25.5	0.0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	24.22	24.53	24.43		-25.5	
Channel				500600	507000	513500	25.5	0.0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	24.27	24.62	24.38		25.5	

n66 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	25.5	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	24.12	24.08	24.20			
40	PI2 BPSK	1	103	24.04	24.15	24.04	25.0	0.5	
40	PI2 BPSK	1	214	24.11	24.22	24.16			
40	PI2 BPSK	106	0	23.68	23.68	23.70		0.5	
40	PI2 BPSK	106	54	24.22	24.22	24.09	25.0	0.5	
40	PI2 BPSK	106	108	23.70	23.64	23.66			
40	PI2 BPSK	216	0	23.59	23.68	23.65			
40	QPSK	1	1	24.17	24.29	24.16	25.5	0.0	
40	QPSK	1	108	24.12	24.17	24.08			
40	QPSK	1	214	24.14	24.19	24.19		1.0	
40	QPSK	106	0	23.07	23.02	23.18	24.5	0.0	
40	QPSK	106	54	24.04	24.16	24.06			
40	QPSK	106	108	23.07	23.16	23.25		1.0	
40	QPSK	216	0	23.03	23.07	23.05	24.5	1.0	
40	16QAM	1	1	23.04	23.00	23.02			
40	64QAM	1	1	21.72	21.76	21.75		2.5	
40	256QAM	1	1	19.32	19.43	19.27	21.0	4.5	
Channel				344000	349000	354000	25.5	0.0	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	24.10	24.13	24.05		0.0	
Channel				343500	349000	354500	25.5	0.0	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.96	23.98	23.90		25.5	
Channel				343000	349000	355000	25.5	0.0	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	24.10	24.18	24.07		25.5	
Channel				342500	349000	355500	25.5	0.0	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	24.12	24.19	24.13		25.5	



n38 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519698	25.5	0.0	
Frequency (MHz)				2590.02	2598	2599.98			
40	PI2 BPSK	1	1	24.40	24.49	24.38			
40	PI2 BPSK	1	53	24.43	24.47	24.56			
40	PI2 BPSK	1	104	24.43	24.45	24.39	25.0	0.5	
40	PI2 BPSK	50	0	24.03	23.94	23.95	25.0	0.0	
40	PI2 BPSK	50	28	24.45	24.41	24.42	25.5	0.0	
40	PI2 BPSK	50	56	23.91	23.95	23.89	25.0	0.5	
40	PI2 BPSK	100	0	23.77	23.86	23.86	25.5	0.0	
40	QPSK	1	1	24.58	24.58	24.55			
40	QPSK	1	53	24.45	24.55	24.53			
40	QPSK	1	104	24.48	24.52	24.49			
40	QPSK	50	0	23.48	23.50	23.51	24.5	1.0	
40	QPSK	50	28	24.44	24.46	24.34	25.5	0.0	
40	QPSK	50	56	23.59	23.53	23.54	24.5	1.0	
40	QPSK	100	0	23.44	23.56	23.53	24.0	1.0	
40	16QAM	1	1	23.48	23.48	23.58			
40	64QAM	1	1	22.28	22.21	22.32			
40	256QAM	1	1	19.67	19.70	19.88			
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2596	2604.99	25.5	0.0	
30	QPSK	1	1	24.47	24.42	24.42	25.5	0.0	
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2598	2610	25.5	0.0	
20	QPSK	1	1	24.53	24.41	24.39	25.5	0.0	

n41 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518098	520000	25.5	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	24.52	24.50	24.61			
100	PI2 BPSK	1	137	24.62	24.57	24.59			
100	PI2 BPSK	1	271	24.51	24.62	24.58	25.5	0.0	
100	PI2 BPSK	135	0	24.56	24.52	24.38	25.5	0.0	
100	PI2 BPSK	135	69	24.54	24.52	24.53	25.5	0.0	
100	PI2 BPSK	135	138	24.56	24.49	24.48	25.5	0.0	
100	PI2 BPSK	270	0	24.38	24.51	24.40	25.5	0.0	
100	QPSK	1	1	24.48	24.64	24.60			
100	QPSK	1	137	24.55	24.48	24.54			
100	QPSK	1	271	24.55	24.60	24.62			
100	QPSK	135	0	24.43	24.37	24.49	25.5	0.0	
100	QPSK	135	69	24.52	24.53	24.41	25.5	0.0	
100	QPSK	135	138	24.38	24.43	24.34	25.5	0.0	
100	QPSK	270	0	24.40	24.48	24.42	25.5	0.0	
100	16QAM	1	1	24.58	24.62	24.56			
100	64QAM	1	1	23.30	23.66	23.48			
100	256QAM	1	1	21.59	21.41	21.40			
Channel				507204	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	25.5	0.0	
80	QPSK	1	1	24.57	24.60	24.48	25.5	0.0	
Channel				505200	518098	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	25.5	0.0	
60	QPSK	1	1	24.43	24.53	24.48	25.5	0.0	
Channel				503202	518098	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	25.5	0.0	
40	QPSK	1	1	24.49	24.62	24.58	25.5	0.0	
Channel				502200	518098	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	25.5	0.0	
30	QPSK	1	1	24.61	24.58	24.49	25.5	0.0	
Channel				501204	518098	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99	25.5	0.0	
20	QPSK	1	1	24.57	24.63	24.63	25.5	0.0	

n41 Ant0 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518098	520000	27.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	26.10	26.12	26.11			
100	PI2 BPSK	1	137	26.17	26.11	26.17			
100	PI2 BPSK	1	271	26.10	26.17	26.14	23.5	3.5	
100	PI2 BPSK	135	0	26.07	26.13	26.08	23.5	3.5	
100	PI2 BPSK	135	69	26.15	26.10	25.99	27.0	0.0	
100	PI2 BPSK	135	138	25.53	25.50	25.51	23.5	3.5	
100	PI2 BPSK	270	0	25.61	25.52	25.60	26.5	0.5	
100	QPSK	1	1	26.18	26.24	26.08	27.0	0.0	
100	QPSK	1	137	25.61	25.65	25.69	23.5	3.5	
100	QPSK	1	271	26.13	26.10	26.16			
100	QPSK	135	0	25.02	25.00	24.99			
100	QPSK	135	69	25.67	25.78	25.64			
100	QPSK	135	138	25.10	24.99	24.90	23.5	3.5	
100	QPSK	270	0	24.95	25.00	24.95	26.5	0.5	
100	16QAM	1	1	24.88	24.87	24.87	26.0	1.0	
100	64QAM	1	1	23.78	23.78	23.73	24.5	2.5	
100	256QAM	1	1	21.72	21.67	21.68	22.5	4.5	
Channel				507204	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	25.5	0.0	
80	QPSK	1	1	26.03	26.19	25.91	27.0	0.0	
Channel				505200	518098	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	27.0	0.0	
60	QPSK	1	1	25.99	26.20	26.03	27.0	0.0	
Channel				503202	518098	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	27.0	0.0	
40	QPSK	1	1	26.17	26.07	26.09	27.0	0.0	
Channel				502200	518098	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	27.0	0.0	
30	QPSK	1	1	26.04	26.09	26.05	27.0	0.0	
Channel				501204	518098	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99	27.0	0.0	
20	QPSK	1	1	26.14	26.10	26.07	27.0	0.0	



n5 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166300	167300	167600	25.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.95	24.94	24.86			
20	PI2 BPSK	1	53	24.86	24.91	24.82	25.0	0.5	
20	PI2 BPSK	1	104	24.70	24.75	24.66			
20	PI2 BPSK	50	0	24.40	24.45	24.48			
20	PI2 BPSK	50	28	24.89	24.85	24.85	25.5	0.0	
20	PI2 BPSK	50	56	24.46	24.38	24.36			
20	PI2 BPSK	100	0	24.39	24.35	24.44			
20	QPSK	1	1	23.76	23.87	23.89	25.5	0.0	
20	QPSK	1	53	24.94	24.85	24.90			
20	QPSK	1	104	24.26	24.24	24.13			
20	QPSK	50	0	23.87	23.90	23.84	24.5	1.0	
20	QPSK	50	28	24.70	24.67	24.61			
20	QPSK	50	56	23.87	23.89	23.79			
20	QPSK	100	0	23.78	23.89	23.69	24.5	1.0	
20	16QAM	1	1	23.97	23.87	23.86			
20	64QAM	1	1	22.23	22.14	22.13		23.0	
20	256QAM	1	1	19.92	19.99	20.02	21.0		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	25.5	0.0	
15	QPSK	1	1	24.61	24.81	24.72			
Channel				829	836.5	844	25.5	0.0	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.68	24.85	24.87			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				801.5	836.5	846.5	25.5	0.0	
5	QPSK	1	1	24.71	24.90	24.80			

n7 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	513000	24.5	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	23.08	23.09	23.02			
20	PI2 BPSK	1	53	23.05	23.09	23.08	24.0	0.5	
20	PI2 BPSK	1	104	22.98	23.08	22.97			
20	PI2 BPSK	50	0	22.80	22.82	22.59			
20	PI2 BPSK	50	28	23.09	22.98	23.08	24.0	0.5	
20	PI2 BPSK	50	56	22.53	22.54	22.41			
20	PI2 BPSK	100	0	22.52	22.53	22.64			
20	QPSK	1	1	22.98	23.14	23.09	24.5	0.0	
20	QPSK	1	53	23.03	23.08	22.94			
20	QPSK	1	104	23.05	23.06	22.91			
20	QPSK	50	0	21.96	22.03	22.01	23.5	1.0	
20	QPSK	50	28	22.93	22.96	22.87			
20	QPSK	50	56	22.01	22.07	21.98			
20	QPSK	100	0	22.13	22.22	22.21	23.5	1.0	
20	16QAM	1	1	22.24	22.21	22.22			
20	64QAM	1	1	20.44	20.51	20.48		22.0	
20	256QAM	1	1	18.52	18.48	18.41	20.0		
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.5	0.0	
15	QPSK	1	1	23.00	23.06	23.03			
Channel				511000	512000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.5	0.0	
10	QPSK	1	1	22.98	22.91	22.94			
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.5	0.0	
5	QPSK	1	1	23.01	23.12	22.96			

n66 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346900	349000	350500	24.5	0.0	
Frequency (MHz)				1739	1745	1760			
40	PI2 BPSK	1	1	23.30	23.36	23.33			
40	PI2 BPSK	1	108	23.26	23.37	23.41	24.0	0.5	
40	PI2 BPSK	1	214	23.36	23.24	23.19			
40	PI2 BPSK	108	0	22.88	22.85	22.68			
40	PI2 BPSK	108	54	23.25	23.33	23.30	24.0	0.5	
40	PI2 BPSK	108	108	22.74	22.75	22.64			
40	PI2 BPSK	216	0	22.76	22.76	22.72			
40	QPSK	1	1	23.38	23.44	23.35	24.5	0.0	
40	QPSK	1	108	23.38	23.37	23.33			
40	QPSK	1	214	23.33	23.37	23.43			
40	QPSK	108	0	22.51	22.51	22.13	23.5	1.0	
40	QPSK	108	54	23.32	23.35	23.28			
40	QPSK	108	108	22.40	22.31	22.22			
40	QPSK	216	0	22.15	22.25	22.16	23.5	1.0	
40	16QAM	1	1	22.16	22.23	22.29			
40	64QAM	1	1	20.70	20.67	20.76		22.0	
40	256QAM	1	1	18.83	18.78	18.75	20.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1728	1745	1770	24.5	0.0	
20	QPSK	1	1	23.23	23.25	23.13			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.5	0.0	
15	QPSK	1	1	23.26	23.37	23.32			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1714	1745	1775	24.5	0.0	
10	QPSK	1	1	23.33	23.43	23.35			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.5	0.0	
5	QPSK	1	1	23.30	23.27	23.35			



n38 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519698	24.5	0.0	
Frequency (MHz)				2590.02	2596	2599.98			
40	PI2 BPSK	1	1	23.15	23.20	23.24			
40	PI2 BPSK	1	53	23.14	23.10	23.08			
40	PI2 BPSK	1	104	23.02	23.08	22.99	24.0	0.5	
40	PI2 BPSK	50	0	22.54	22.50	22.39	24.0	0.5	
40	PI2 BPSK	50	28	22.97	22.90	22.84	24.5	0.0	
40	PI2 BPSK	50	56	22.47	22.44	22.46	24.0	0.5	
40	PI2 BPSK	100	0	22.43	22.40	22.28			
40	QPSK	1	1	23.15	23.20	23.24			
40	QPSK	1	53	23.08	23.24	23.11	24.5	0.0	
40	QPSK	1	104	23.12	23.21	23.07	23.5	1.0	
40	QPSK	50	0	22.10	21.99	22.05			
40	QPSK	50	28	23.17	23.20	23.17			
40	QPSK	50	56	22.09	22.21	22.22			
40	QPSK	100	0	22.15	22.20	22.18	23.5	1.0	
40	16QAM	1	1	22.45	22.35	22.34	23.5	1.0	
40	64QAM	1	1	20.91	20.92	20.84	22.0	2.5	
40	256QAM	1	1	18.78	18.99	18.92	20.0	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	24.5	0.0	
30	QPSK	1	1	23.12	23.27	23.05			
Channel				519000	519000	522000		MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	23.05	23.14	23.16	24.5	0.0	

n41 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518098	520000	24.5	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	23.28	23.25	23.26			
100	PI2 BPSK	1	137	23.19	23.28	23.16			
100	PI2 BPSK	1	271	23.24	23.24	23.21	24.0	0.5	
100	PI2 BPSK	135	0	23.23	23.16	23.28	24.0	0.5	
100	PI2 BPSK	135	69	23.20	23.26	23.18	24.5	0.0	
100	PI2 BPSK	135	138	23.12	23.10	23.20	24.0	0.5	
100	PI2 BPSK	270	0	23.06	23.18	23.10			
100	QPSK	1	1	23.25	23.20	23.25			
100	QPSK	1	137	23.14	23.23	23.23	24.5	0.0	
100	QPSK	1	271	23.18	23.19	23.11	23.5	1.0	
100	QPSK	135	0	23.06	23.22	23.15			
100	QPSK	135	69	23.14	23.28	23.23			
100	QPSK	135	138	23.02	23.10	23.08			
100	QPSK	270	0	23.05	23.26	23.16	23.5	1.0	
100	16QAM	1	1	23.12	23.23	23.25	23.5	1.0	
100	64QAM	1	1	22.37	22.40	22.37	22.0	2.5	
100	256QAM	1	1	20.16	20.24	20.02	20.0	4.5	
Channel				507204	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.5	0.0	
80	QPSK	1	1	23.22	23.26	23.12			
Channel				518000	518098	519000		MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.23	23.09	23.08	24.5	0.0	
Channel				503002	518098	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.5	0.0	
40	QPSK	1	1	23.25	23.17	23.16			
Channel				502200	518098	534998		MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.17	23.25	23.09	24.5	0.0	
Channel				501004	518098	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99	24.5	0.0	
20	QPSK	1	1	23.07	23.19	23.23			

n41 Ant4 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518098	520000	26.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	24.35	24.38	24.32			
100	PI2 BPSK	1	137	24.30	24.37	24.36			
100	PI2 BPSK	1	271	24.35	24.36	24.32	26.0	0.5	
100	PI2 BPSK	135	0	23.79	23.88	23.88	25.5	0.5	
100	PI2 BPSK	135	69	24.37	24.31	24.26	26.0	0.0	
100	PI2 BPSK	135	138	23.65	23.72	23.77	25.5	0.5	
100	PI2 BPSK	270	0	23.75	23.86	23.83			
100	QPSK	1	1	24.35	24.63	24.30			
100	QPSK	1	137	23.77	23.89	23.80			
100	QPSK	1	271	24.31	24.23	24.20	25.0	1.0	
100	QPSK	135	0	23.21	23.30	23.19			
100	QPSK	135	69	24.17	24.07	24.15			
100	QPSK	135	138	22.99	22.61	22.54			
100	QPSK	270	0	23.30	23.46	23.36	25.0	1.0	
100	16QAM	1	1	22.28	22.36	22.46	25.0	1.0	
100	64QAM	1	1	21.54	21.46	21.46	23.5	2.5	
100	256QAM	1	1	19.84	19.76	19.75	21.5	4.5	
Channel				507204	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	26.0	0.0	
80	QPSK	1	1	24.30	24.37	24.20			
Channel				518000	518098	519000		MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	24.31	24.34	24.09	26.0	0.0	
Channel				503002	518098	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	26.0	0.0	
40	QPSK	1	1	24.35	24.19	24.07			
Channel				502200	518098	534998		MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.35	24.31	24.15	26.0	0.0	
Channel				501004	518098	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99	26.0	0.0	
20	QPSK	1	1	24.33	24.16	24.14			



Par27Q n77 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	25.19	25.33	25.53		25.5	0.0
100	PI2 BPSK	1	137	25.25	25.34	25.29			
100	PI2 BPSK	1	271	25.28	25.26	25.36			
100	PI2 BPSK	135	0	25.28	25.26	25.14		25.5	0.0
100	PI2 BPSK	135	66	25.33	25.30	25.23		25.5	0.0
100	PI2 BPSK	135	138	25.14	25.28	25.35		25.5	0.0
100	PI2 BPSK	270	0	25.25	25.33	25.35		25.5	0.0
100	QPSK	1	1	25.30	25.38	25.36		25.5	0.0
100	QPSK	1	137	25.26	25.35	25.31			
100	QPSK	1	271	25.18	25.21	25.14			
100	QPSK	135	0	25.28	25.19	25.12		25.5	0.0
100	QPSK	135	66	25.30	25.32	25.29		25.5	0.0
100	QPSK	135	138	25.25	25.28	25.24		25.5	0.0
100	QPSK	270	0	25.27	25.30	25.18		25.5	0.0
100	16QAM	1	1	25.27	25.29	25.29		25.5	0.0
100	16QAM	1	1	24.22	24.28	24.51		24.5	1.0
100	256QAM	1	1	22.53	22.42	22.33		22.5	3.0
Channel				648934	650000	660668	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dB)		
80	QPSK	1	1	24.50	25.12	24.94		25.5	0.0
Channel				648668	650000	663334	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dB)		
60	QPSK	1	1	24.86	24.97	24.79		25.5	0.0
Channel				64725.01	3840	3955.02	(dB)		
Frequency (MHz)				3725.01	3840	3965.02	(dB)		
50	QPSK	1	1	24.86	25.03	24.92		25.5	0.0
Channel				648000	650000	660000	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3960	(dB)		
40	QPSK	1	1	24.95	25.11	24.78		25.5	0.0
Channel				647668	650000	664334	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dB)		
30	QPSK	1	1	24.85	25.14	24.93		25.5	0.0
Channel				647334	650000	664668	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dB)		
20	QPSK	1	1	25.03	25.16	24.83		25.5	0.0

Par27Q n77 Ant3 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	26.09	26.57	26.61		27.0	0.0
100	PI2 BPSK	1	137	26.71	26.73	26.63			
100	PI2 BPSK	1	271	26.63	26.64	26.68			
100	PI2 BPSK	135	0	26.12	26.16	26.27		26.5	0.5
100	PI2 BPSK	135	66	26.63	26.74	26.67		27.0	0.0
100	PI2 BPSK	135	138	26.25	26.16	26.12		26.5	0.5
100	PI2 BPSK	270	0	26.07	26.03	25.95		26.5	0.5
100	QPSK	1	1	26.76	26.78	26.71		27.0	0.0
100	QPSK	1	137	26.04	26.70	26.67			
100	QPSK	1	271	26.48	26.54	26.50			
100	QPSK	135	0	25.76	25.65	25.62		26.0	1.0
100	QPSK	135	66	26.63	26.72	26.66		27.0	0.0
100	QPSK	135	138	25.91	25.98	25.70		26.0	1.0
100	QPSK	270	0	25.86	25.88	25.46		26.0	1.0
100	16QAM	1	1	25.25	25.32	25.43		26.0	1.0
100	16QAM	1	1	24.21	24.25	24.19		24.5	2.5
100	256QAM	1	1	22.09	22.03	22.14		22.5	4.5
Channel				648934	650000	660668	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dB)		
80	QPSK	1	1	26.41	26.55	26.13		27.0	0.0
Channel				648668	650000	663334	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dB)		
60	QPSK	1	1	26.53	26.38	26.23		27.0	0.0
Channel				64725.01	3840	3955.02	(dB)		
Frequency (MHz)				3725.01	3840	3965.02	(dB)		
50	QPSK	1	1	26.38	26.41	26.16		27.0	0.0
Channel				648000	650000	660000	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3960	(dB)		
40	QPSK	1	1	26.30	26.43	26.24		27.0	0.0
Channel				647668	650000	664334	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dB)		
30	QPSK	1	1	26.41	26.50	25.27		27.0	0.0
Channel				647334	650000	664668	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dB)		
20	QPSK	1	1	26.31	26.57	26.27		27.0	0.0

Part27Q n77 Ant3 PC2&3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				632000	633334	635000			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	25.14	25.27	25.14		27.0	0.0
100	PI2 BPSK	1	137	25.27	25.27	25.27			
100	PI2 BPSK	1	271	25.16	25.16	25.16			
100	PI2 BPSK	135	0	24.73	24.73	24.73		26.5	0.5
100	PI2 BPSK	135	66	25.19	25.19	25.19		27.0	0.0
100	PI2 BPSK	135	138	24.77	24.77	24.77		26.5	0.5
100	PI2 BPSK	270	0	24.66	24.66	24.66		26.5	0.5
100	QPSK	1	1	25.48	25.48	25.48		27.0	0.0
100	QPSK	1	137	25.22	25.22	25.22			
100	QPSK	1	271	25.40	25.40	25.40			
100	QPSK	135	0	24.18	24.18	24.18		26.0	1.0
100	QPSK	135	66	25.21	25.21	25.21		27.0	0.0
100	QPSK	135	138	24.30	24.30	24.30		26.0	1.0
100	QPSK	270	0	24.16	24.16	24.16		26.0	1.0
100	16QAM	1	1	25.44	25.44	25.44		26.0	1.0
100	16QAM	1	1	22.88	22.88	22.88		24.5	2.5
100	256QAM	1	1	21.99	21.99	21.99		22.5	4.5
Channel				632086	633334	634000	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dB)		
80	QPSK	1	169	25.37	25.41	25.38		27.0	0.0
Channel				632000	633334	634668	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3505.02	(dB)		
60	QPSK	1	81	25.33	25.37	25.29		27.0	0.0
Channel				631700	633334	635000	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3505	(dB)		
50	QPSK	1	67	25.24	25.43	25.39		27.0	0.0
Channel				631334	633334	635334	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3505.01	(dB)		
40	QPSK	1	53	25.34	25.26	25.27		27.0	0.0
Channel				631000	633334	635668	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3505.02	(dB)		
30	QPSK	1	39	25.22	25.41	25.33		27.0	0.0
Channel				630686	633334	636000	Turn-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dB)		
20	QPSK	1	26	25.34	25.38	25.40		27.0	0.0



Part270 n78 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	25.17					
100	PI2 BPSK	1	137		25.29		25.5	0.0	
100	PI2 BPSK	1	271		25.22				
100	PI2 BPSK	135	0		25.09		25.5	0.0	
100	PI2 BPSK	135	66		25.14		25.5	0.0	
100	PI2 BPSK	135	138		25.15		25.5	0.0	
100	PI2 BPSK	270	0		25.09				
100	QPSK	1	1	25.34					
100	QPSK	1	137		25.16		25.5	0.0	
100	QPSK	1	271		25.10				
100	QPSK	135	0		25.12		25.5	0.0	
100	QPSK	135	66		25.20		25.5	0.0	
100	QPSK	135	138		25.10				
100	QPSK	270	0		25.07		25.5	0.0	
100	16QAM	1	1	25.28			25.5	0.0	
100	64QAM	1	1	24.26			24.5	1.0	
100	256QAM	1	1	22.29			22.5	3.0	
Channel									
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.96	24.88	24.88	25.5	0.0	
Channel									
Frequency (MHz)				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3750.02	3750	3770.01			
60	QPSK	1	1	24.89	24.89	24.96	25.5	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3725.01	3750	3775.02			
50	QPSK	1	1	25.01	25.03	24.86	25.5	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	24.86	25.11	24.97	25.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	24.07	24.89	24.79	25.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.98	25.06	24.88	25.5	0.0	

Part270 n78 Ant3 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		26.63				
100	PI2 BPSK	1	137		26.75		27.0		
100	PI2 BPSK	1	271		26.70			27.0	0.0
100	PI2 BPSK	135	0		26.14		26.5	0.5	
100	PI2 BPSK	135	66		26.07		27.0	0.0	
100	PI2 BPSK	135	138		26.10		26.5	0.5	
100	PI2 BPSK	270	0		26.13			26.5	0.5
100	QPSK	1	1		26.79				
100	QPSK	1	137		26.07		27.0	0.0	
100	QPSK	1	271		26.08				
100	QPSK	135	0		25.62		26.0	1.0	
100	QPSK	135	66		26.02		27.0	0.0	
100	QPSK	135	138		26.14		26.0	1.0	
100	QPSK	270	0		25.96				
100	16QAM	1	1		25.38		26.0	1.0	
100	64QAM	1	1		24.28		24.5	2.5	
100	256QAM	1	1		22.03		22.5	4.5	
Channel									
Frequency (MHz)				3740.01 <th>3750.00<th>3760.02<th>Tune-up limit (dbm)<th>1.5-3<th>db</th></th></th></th></th>	3750.00 <th>3760.02<th>Tune-up limit (dbm)<th>1.5-3<th>db</th></th></th></th>	3760.02 <th>Tune-up limit (dbm)<th>1.5-3<th>db</th></th></th>	Tune-up limit (dbm) <th>1.5-3<th>db</th></th>	1.5-3 <th>db</th>	db
80	QPSK	1	1	26.04	26.26	25.98	27.0	0.0	
Channel									
Frequency (MHz)				3749.68 <th>3750.00<th>3750.31<th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th></th></th>	3750.00 <th>3750.31<th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th></th>	3750.31 <th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th>	Tune-up limit (dbm) <th>MPR<th>db</th></th>	MPR <th>db</th>	db
60	QPSK	1	1	25.96	26.08	26.05	27.0	0.0	
Channel									
Frequency (MHz)				3743.34 <th>3750.00<th>3756.68<th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th></th></th>	3750.00 <th>3756.68<th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th></th>	3756.68 <th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th>	Tune-up limit (dbm) <th>MPR<th>db</th></th>	MPR <th>db</th>	db
50	QPSK	1	1	3725.01	3750	3775.02	Tune-up limit (dbm)	MPR <th>db</th>	db
50	QPSK	1	1	26.03	26.21	26.11	27.0	0.0	
Channel									
Frequency (MHz)				648000 <th>650000<th>652000</th><th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th></th>	650000 <th>652000</th> <th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th>	652000	Tune-up limit (dbm) <th>MPR<th>db</th></th>	MPR <th>db</th>	db
40	QPSK	1	1	3720	3750	3780	Tune-up limit (dbm)	MPR <th>db</th>	db
40	QPSK	1	1	26.12	26.11	26.07	27.0	0.0	
Channel									
Frequency (MHz)				647968 <th>650000<th>652334</th><th>Tune-up limit (dbm)</th><th>1.5-3</th><th>db</th></th>	650000 <th>652334</th> <th>Tune-up limit (dbm)</th> <th>1.5-3</th> <th>db</th>	652334	Tune-up limit (dbm)	1.5-3	db
30	QPSK	1	1	26.01	26.11	26.09	27.0	0.0	
Channel									
Frequency (MHz)				647334 <th>650000<th>652668</th><th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th></th>	650000 <th>652668</th> <th>Tune-up limit (dbm)<th>MPR<th>db</th></th></th>	652668	Tune-up limit (dbm) <th>MPR<th>db</th></th>	MPR <th>db</th>	db
20	QPSK	1	1	3710.01	3750	3790.02	Tune-up limit (dbm)	MPR <th>db</th>	db
20	QPSK	1	1	26.07	26.27	25.98	27.0	0.0	

Part27Q n78 Ant3 PC2&3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)				633334	633334				
100	PI2 BPSK	1	1		25.21				
100	PI2 BPSK	1	137		25.27		27.0	0.0	
100	PI2 BPSK	1	271		25.17				
100	PI2 BPSK	135	0		24.67		26.5	0.5	
100	PI2 BPSK	135	66		25.11		27.0	0.0	
100	PI2 BPSK	135	138		24.59		26.5	0.5	
100	PI2 BPSK	270	0		24.66				
100	QPSK	1	1		25.30				
100	QPSK	1	137		25.20		27.0	0.0	
100	QPSK	1	271		25.24				
100	QPSK	135	0		25.13		26.0	1.0	
100	QPSK	135	66		25.26		27.0	0.0	
100	QPSK	135	138		25.19		26.0	1.0	
100	QPSK	270	0		24.21				
100	16QAM	1	1		24.41		26.0	1.0	
100	64QAM	1	1		22.88		24.5	2.5	
100	256QAM	1	1		20.96		22.5	4.5	
Channel									
Frequency (MHz)				633068	633334	634000	Tune-up limit (dbm)	MPR (db)	
80	QPSK	1	109	25.26	25.29	25.19	27.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dbm)	MPR (db)	
60	QPSK	1	81	25.13	25.26	25.14	27.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				631402	633003	633625	Tune-up limit (dbm)	MPR (db)	
50	QPSK	1	67	25.12	25.16	25.08	27.0	0.0	
Channel				631334	633334	633334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				634701	633001	635001	Tune-up limit (dbm)	MPR (db)	
40	QPSK	1	53	25.19	25.12	25.17	27.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485	3500.01	3536.02	Tune-up limit (dbm)	MPR (db)	
30	QPSK	1	39	25.15	25.10	25.03	27.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3489.02	3500.01	3540	Tune-up limit (dbm)	MPR (db)	
20	QPSK	1	26	25.16	25.20	25.05	27.0	0.0	



Par270 n77 Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	25.5	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	24.00	24.02	24.06			
100	PI2 BPSK	1	137	24.18	24.24	24.17			
100	PI2 BPSK	1	271	24.15	24.20	24.17	25.5	0.0	
100	PI2 BPSK	135	0	24.14	24.08	23.97	25.5	0.0	
100	PI2 BPSK	135	69	24.12	24.17	24.23	25.5	0.0	
100	PI2 BPSK	135	138	24.05	24.13	24.05	25.5	0.0	
100	PI2 BPSK	270	0	23.95	24.07	23.98	25.5	0.0	
100	QPSK	1	1	24.13	24.25	24.20	25.5	0.0	
100	QPSK	1	137	24.21	24.21	24.16			
100	QPSK	1	271	24.14	24.23	24.22			
100	QPSK	135	0	23.95	24.02	24.06			
100	QPSK	135	69	24.07	24.17	24.10	25.5	0.0	
100	QPSK	135	138	24.14	24.15	24.06	25.5	0.0	
100	QPSK	270	0	24.06	24.09	24.06	25.5	0.0	
100	16QAM	1	1	24.22	24.17	24.21	25.5	0.0	
100	64QAM	1	1	23.43	23.32	23.43	24.5	1.0	
100	256QAM	1	1	21.09	21.07	21.00	22.5	3.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	25.5	0.0	
80	QPSK	1	1	24.10	24.06	24.00	25.5	0.0	
Channel				647053	655000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	25.5	0.0	
60	QPSK	1	1	23.92	24.14	23.99	25.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	25.5	0.0	
50	QPSK	1	1	23.84	24.19	24.10	25.5	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	25.5	0.0	
40	QPSK	1	1	23.95	24.11	24.19	25.5	0.0	
Channel				647053	655000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	25.5	0.0	
30	QPSK	1	1	24.14	24.17	24.02	25.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	25.5	0.0	
20	QPSK	1	1	23.98	24.24	24.09	25.5	0.0	

Par270 n77 Ant5 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	27.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	25.51	25.48	25.44			
100	PI2 BPSK	1	137	25.86	25.58	25.69			
100	PI2 BPSK	1	271	25.45	25.55	25.65	26.5	0.5	
100	PI2 BPSK	135	0	24.92	24.91	24.87	26.5	0.5	
100	PI2 BPSK	135	69	25.53	25.57	25.64	27.0	0.0	
100	PI2 BPSK	135	138	25.02	25.03	25.02	26.5	0.5	
100	PI2 BPSK	270	0	24.30	25.01	25.12	26.5	0.5	
100	QPSK	1	1	25.80	25.73	25.71	27.0	0.0	
100	QPSK	1	137	25.80	25.53	25.46			
100	QPSK	1	271	25.55	25.51	25.43			
100	QPSK	135	0	24.31	24.36	24.25	26.0	1.0	
100	QPSK	135	69	25.53	25.60	25.52	27.0	0.0	
100	QPSK	135	138	24.57	24.50	24.48	26.0	1.0	
100	QPSK	270	0	24.31	24.41	24.40	26.0	1.0	
100	16QAM	1	1	25.45	25.40	25.32	26.0	1.0	
100	64QAM	1	1	23.19	23.08	23.11	24.5	2.5	
100	256QAM	1	1	21.10	20.99	21.04	22.5	4.5	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	27.0	0.0	
80	QPSK	1	1	25.40	25.52	25.60	27.0	0.0	
Channel				649334	655000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	27.0	0.0	
60	QPSK	1	1	25.38	25.54	25.49	27.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	27.0	0.0	
50	QPSK	1	1	25.41	25.58	25.60	27.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	27.0	0.0	
40	QPSK	1	1	25.59	25.54	25.60	27.0	0.0	
Channel				647053	655000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	27.0	0.0	
30	QPSK	1	1	25.57	25.70	25.53	27.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	27.0	0.0	
20	QPSK	1	1	25.40	25.72	25.66	27.0	0.0	

Par27Q n77 Ant5 PC2&3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	633334	635000	27.0	0.0	
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	25.13	25.13	25.13			
100	PI2 BPSK	1	137	25.11	25.11	25.11			
100	PI2 BPSK	1	271	25.31	25.31	25.31	27.0	0.0	
100	PI2 BPSK	135	0	24.59	24.59	24.59	26.5	0.5	
100	PI2 BPSK	135	69	25.27	25.27	25.27	27.0	0.0	
100	PI2 BPSK	135	138	24.75	24.75	24.75	26.5	0.5	
100	PI2 BPSK	270	0	24.73	24.73	24.73	26.5	0.5	
100	QPSK	1	1	25.34	25.34	25.34	27.0	0.0	
100	QPSK	1	137	25.24	25.24	25.24			
100	QPSK	1	271	25.18	25.18	25.18			
100	QPSK	135	0	24.76	24.76	24.76	26.0	1.0	
100	QPSK	135	69	25.32	25.32	25.32	27.0	0.0	
100	QPSK	135	138	24.71	24.71	24.71	26.0	1.0	
100	QPSK	270	0	24.77	24.77	24.77	26.0	1.0	
100	16QAM	1	1	24.39	24.39	24.39	26.0	1.0	
100	64QAM	1	1	22.80	22.80	22.80	24.5	2.5	
100	256QAM	1	1	20.81	20.81	20.81	22.5	4.5	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	27.0	0.0	
80	QPSK	1	109	25.22	25.18	25.10	27.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	27.0	0.0	
60	QPSK	1	81	25.18	25.20	25.21	27.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	27.0	0.0	
50	QPSK	1	67	25.16	25.17	25.19	27.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	27.0	0.0	
40	QPSK	1	53	25.20	25.22	25.10	27.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	27.0	0.0	
30	QPSK	1	39	25.20	25.17	25.04	27.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	27.0	0.0	
20	QPSK	1	26	25.16	25.15	25.10	27.0	0.0	



Part270 n78 Ant5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	24.05			25.5	0.0
100	PI2 BPSK	1	137	24.11				
100	PI2 BPSK	1	271	24.17				
100	PI2 BPSK	135	0	24.07			25.5	0.0
100	PI2 BPSK	135	69	24.05			25.5	0.0
100	PI2 BPSK	135	138	23.98			25.5	0.0
100	PI2 BPSK	270	0	24.11				
100	QPSK	1	1	24.20				
100	QPSK	1	137	24.13			25.5	0.0
100	QPSK	1	271	24.10				
100	QPSK	135	0	24.08				
100	QPSK	135	69	24.12			25.5	0.0
100	QPSK	135	138	24.11			25.5	0.0
100	QPSK	270	0	24.05				
100	16QAM	1	1	23.99			25.5	0.0
100	64QAM	1	1	23.28			24.5	1.0
100	256QAM	1	1	21.04			22.5	3.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.12	24.05	24.10	25.5	0.0
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	24.10	24.07	24.16	25.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.01	3750	3760.02		
50	QPSK	1	1	24.16	24.13	24.13	25.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.15	24.02	24.14	25.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3780.02		
30	QPSK	1	1	24.04	24.16	24.05	25.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3780.02		
20	QPSK	1	1	24.14	24.08	24.12	25.5	0.0

Part270 n78 Ant5 PC2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	25.52			27.0	0.0
100	PI2 BPSK	1	137	25.64				
100	PI2 BPSK	1	271	25.54				
100	PI2 BPSK	135	0	25.00			26.5	0.5
100	PI2 BPSK	135	69	25.55			27.0	0.0
100	PI2 BPSK	135	138	25.01			26.5	0.5
100	PI2 BPSK	270	0	25.02				
100	QPSK	1	1	25.13				
100	QPSK	1	137	25.05			27.0	0.0
100	QPSK	1	271	25.70				
100	QPSK	135	0	24.49			27.0	0.0
100	QPSK	135	69	25.56			27.0	0.0
100	QPSK	135	138	24.51			27.0	0.0
100	QPSK	270	0	24.41				
100	16QAM	1	1	24.35			26.0	1.0
100	64QAM	1	1	23.28			24.5	2.5
100	256QAM	1	1	21.00			22.5	4.5
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.54	25.65	25.55	27.0	0.0
Channel				648556	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.53	25.51	25.49	27.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.50	25.59	25.54	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.47	25.55	25.49	27.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.46	25.63	25.66	27.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3780.02		
20	QPSK	1	1	25.39	25.44	25.66	27.0	0.0

Part27Q n78 Ant5 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		25.12		27.0	0.0
100	PI2 BPSK	1	137		25.29			
100	PI2 BPSK	1	271		25.21			
100	PI2 BPSK	135	0		24.64		26.5	0.5
100	PI2 BPSK	135	69		25.35		27.0	0.0
100	PI2 BPSK	135	138		24.87		26.5	0.5
100	PI2 BPSK	270	0		24.76			
100	QPSK	1	1		25.42			
100	QPSK	1	137		25.29		27.0	0.0
100	QPSK	1	271		25.38			
100	QPSK	135	0		24.90		26.0	1.0
100	QPSK	135	69		25.30		27.0	0.0
100	QPSK	135	138		24.73		26.0	1.0
100	QPSK	270	0		24.79			
100	16QAM	1	1		24.56		26.0	1.0
100	64QAM	1	1		22.81		24.5	2.5
100	256QAM	1	1		20.87		22.5	4.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	25.12	25.25	25.15	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	25.12	25.12	25.19	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	25.25	25.13	25.17	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	25.18	25.13	25.08	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	25.10	25.11	25.10	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	25.21	25.10	25.09	27.0	0.0



Reduced power level for 5G NR

n5 Ant0 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166600	167300	167800	25.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	25.16	25.24	25.19	25.5	0.0	
20	PI2 BPSK	1	53	25.11	25.22	25.17			
20	PI2 BPSK	1	104	25.07	25.01	24.98			
20	PI2 BPSK	50	0	24.71	24.84	24.62	25.0	0.5	
20	PI2 BPSK	50	28	25.23	25.14	25.07	25.5	0.0	
20	PI2 BPSK	50	56	24.62	24.57	24.47	25.0	0.5	
20	PI2 BPSK	100	0	24.60	24.08	24.64	25.5	0.0	
20	QPSK	1	1	25.19	25.26	25.16			
20	QPSK	1	53	25.23	25.20	25.12			
20	QPSK	1	104	24.90	24.94	24.98	24.5	1.0	
20	QPSK	50	0	24.21	24.19	24.13			
20	QPSK	50	28	25.21	25.26	25.16			
20	QPSK	50	56	24.16	24.18	24.13	24.5	1.0	
20	QPSK	100	0	24.10	24.16	24.08	24.5	1.0	
20	16QAM	1	1	24.13	24.17	24.09	24.5	1.0	
20	64QAM	1	1	22.81	22.90	22.95	23.0	2.5	
20	256QAM	1	1	20.55	20.56	20.48	21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	25.14	25.17	25.17	25.5	0.0	
Channel				155300	167300	169300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	25.06	25.23	25.01	25.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				834.5	834.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	25.04	25.23	25.14	25.5	0.0	

n7 Ant0 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000	25.5	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	24.48	24.58	24.60	25.5	0.0	
20	PI2 BPSK	1	53	24.52	24.59	24.52			
20	PI2 BPSK	1	104	24.54	24.62	24.49			
20	PI2 BPSK	50	0	24.04	24.09	24.13	25.0	0.5	
20	PI2 BPSK	50	28	24.52	24.64	24.56	25.5	0.0	
20	PI2 BPSK	50	56	23.99	24.09	24.07	25.0	0.5	
20	PI2 BPSK	100	0	24.15	24.18	24.17	25.5	0.0	
20	QPSK	1	1	24.60	24.65	24.59			
20	QPSK	1	53	24.39	24.42	24.38			
20	QPSK	1	104	24.60	24.62	24.58	24.5	1.0	
20	QPSK	50	0	23.80	23.78	23.72			
20	QPSK	50	28	24.47	24.66	24.62			
20	QPSK	50	56	23.77	23.67	23.57	24.5	1.0	
20	QPSK	100	0	23.72	23.74	23.68	24.5	1.0	
20	16QAM	1	1	23.48	23.51	23.43	24.5	1.0	
20	64QAM	1	1	22.30	22.28	22.34	23.0	2.5	
20	256QAM	1	1	19.90	19.95	19.99	21.0	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	24.38	24.60	24.59	25.5	1.0	
Channel				511000	517000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	24.22	24.53	24.43	-25.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	24.27	24.62	24.38	25.5	0.0	

n66 Ant0 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	25.5	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	24.12	24.06	24.20	25.5	0.0	
40	PI2 BPSK	1	108	24.04	24.15	24.04			
40	PI2 BPSK	1	214	24.11	24.22	24.16			
40	PI2 BPSK	108	0	23.88	23.66	23.70	25.0	0.5	
40	PI2 BPSK	108	54	24.22	24.22	24.09	25.5	0.0	
40	PI2 BPSK	108	108	23.70	23.64	23.66	25.0	0.5	
40	PI2 BPSK	216	0	23.99	23.66	23.66	25.5	0.0	
40	QPSK	1	1	24.17	24.26	24.16			
40	QPSK	1	108	24.12	24.17	24.08			
40	QPSK	1	214	24.14	24.19	24.19	24.5	0.0	
40	QPSK	108	0	23.87	23.02	23.18	24.5	1.0	
40	QPSK	108	54	24.04	24.16	24.09			
40	QPSK	108	108	23.07	23.06	23.05			
40	QPSK	216	0	23.03	23.07	23.05	24.5	0.0	
40	16QAM	1	1	23.04	23.00	23.02	24.5	1.0	
40	64QAM	1	1	21.72	21.76	21.75	23.0	2.5	
40	256QAM	1	1	19.32	19.43	19.27	21.0	4.5	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	24.10	24.13	24.05	0.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	24.05	23.98	23.90	25.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	24.10	24.18	24.07	25.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	24.12	24.19	24.13	25.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519004	519000	519096	25.5	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	24.40	24.49	24.38	25.5	0.0
40	PI2 BPSK	1	53	24.43	24.47	24.56		
40	PI2 BPSK	1	104	24.43	24.45	24.39	25.0	0.5
40	PI2 BPSK	50	0	24.03	23.94	23.95		
40	PI2 BPSK	50	28	24.45	24.41	24.42	25.0	0.5
40	PI2 BPSK	50	56	23.91	23.95	23.89		
40	PI2 BPSK	100	0	23.77	23.88	23.86	25.5	0.0
40	QPSK	1	1	24.58	24.59	24.55		
40	QPSK	1	53	24.45	24.55	24.53	24.5	1.0
40	QPSK	1	104	24.46	24.52	24.49		
40	QPSK	50	0	23.48	23.50	23.51	24.5	0.0
40	QPSK	50	28	24.44	24.46	24.34		
40	QPSK	50	56	23.59	23.53	23.54	24.5	1.0
40	QPSK	100	0	23.44	23.56	23.53		
40	16QAM	1	1	23.46	23.48	23.58	24.0	1.0
40	16QAM	1	1	22.28	22.21	22.32		
40	256QAM	1	1	19.67	19.78	19.88	21.0	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	25.5	0.0
30	QPSK	1	1	24.47	24.42	24.42	25.5	0.0
Channel				519000	519000	520000		
Frequency (MHz)				2580	2595	2610	25.5	0.0
20	QPSK	1	1	24.53	24.41	24.39		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				503002	518598	529500	25.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	24.52	24.50	24.61	25.5	0.0
100	PI2 BPSK	1	137	24.62	24.57	24.59		
100	PI2 BPSK	1	271	24.51	24.62	24.58	25.5	0.0
100	PI2 BPSK	135	0	24.56	24.52	24.36		
100	PI2 BPSK	135	69	24.54	24.52	24.53	25.5	0.0
100	PI2 BPSK	135	138	24.56	24.49	24.48		
100	PI2 BPSK	270	0	24.39	24.51	24.40	25.5	0.0
100	QPSK	1	1	24.48	24.54	24.60		
100	QPSK	1	137	24.55	24.48	24.54	25.5	0.0
100	QPSK	1	271	24.55	24.60	24.62		
100	QPSK	135	0	24.43	24.37	24.49	25.5	0.0
100	QPSK	135	69	24.52	24.43	24.41		
100	QPSK	135	138	24.38	24.43	24.34	25.5	0.0
100	QPSK	270	0	24.40	24.48	24.42		
100	16QAM	1	1	24.56	24.62	24.56	25.5	0.0
100	16QAM	1	1	23.50	23.66	23.48		
100	256QAM	1	1	21.59	21.41	21.40	22.5	3.0
Channel				507204	518598	529598	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	25.5	0.0
80	QPSK	1	1	24.57	24.60	24.48	25.5	0.0
Channel				503200	518598	531200		
Frequency (MHz)				2526	2592.99	2659.98	25.5	0.0
60	QPSK	1	1	24.43	24.53	24.48		
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	25.5	0.0
40	QPSK	1	1	24.49	24.62	24.54		
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	25.5	0.0
30	QPSK	1	1	24.61	24.56	24.49		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	25.5	0.0
20	QPSK	1	1	24.57	24.63	24.63		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				529002	518598	530000	25.5	0.0
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	26.10	26.12	26.11	27.0	0.0
100	PI2 BPSK	1	137	26.17	26.17	26.17		
100	PI2 BPSK	1	271	26.18	26.17	26.14	26.5	0.5
100	PI2 BPSK	135	0	26.07	26.13	26.09		
100	PI2 BPSK	135	69	26.15	26.10	25.99	26.5	0.5
100	PI2 BPSK	135	138	25.53	25.50	25.51		
100	PI2 BPSK	270	0	25.81	25.52	25.60	26.5	0.5
100	QPSK	1	1	26.18	26.24	26.08		
100	QPSK	1	137	25.81	25.65	25.69	27.0	0.0
100	QPSK	1	271	26.13	26.10	26.16		
100	QPSK	135	0	25.02	25.00	24.99	26.0	1.0
100	QPSK	135	69	25.67	25.78	25.64		
100	QPSK	135	138	25.10	24.99	24.90	26.0	1.0
100	QPSK	270	0	24.95	25.00	24.95		
100	16QAM	1	1	24.88	24.87	24.87	26.0	1.0
100	16QAM	1	1	23.76	23.78	23.73		
100	256QAM	1	1	21.72	21.67	21.68	22.5	4.5
Channel				507204	518598	529598	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	25.5	0.0
80	QPSK	1	1	26.03	26.19	25.91	27.0	0.0
Channel				503200	518598	531500		
Frequency (MHz)				2526	2592.99	2659.98	27.0	0.0
60	QPSK	1	1	25.99	26.20	26.03		
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	27.0	0.0
40	QPSK	1	1	26.17	26.07	26.09		
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	27.0	0.0
30	QPSK	1	1	26.04	26.09	26.05		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	27.0	0.0
20	QPSK	1	1	26.14	26.10	26.07		



n5 Ant4 DS11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				166900	167300	167900	24.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.85	23.81	23.69			
20	PI2 BPSK	1	53	23.78	23.69	23.79			
20	PI2 BPSK	1	104	23.65	23.55	23.50	24.5	0.0	
20	PI2 BPSK	50	0	23.68	23.75	23.77			
20	PI2 BPSK	50	28	23.85	23.69	23.71			
20	PI2 BPSK	50	56	23.76	23.76	23.65			
20	PI2 BPSK	100	0	23.73	23.68	23.79	24.5	0.0	
20	QPSK	1	1	23.81	23.86	23.88			
20	QPSK	1	53	23.76	23.85	23.77			
20	QPSK	1	104	23.06	23.20	23.05			
20	QPSK	50	0	23.74	23.80	23.63	24.5	0.0	
20	QPSK	50	28	23.59	23.84	23.66			
20	QPSK	50	56	23.83	23.73	23.77			
20	QPSK	100	0	23.67	23.80	23.66			
20	16QAM	1	1	23.77	23.74	23.69	24.5	0.0	
20	8QAM	1	1	22.08	22.14	22.08			
20	256QAM	1	1	20.42	20.44	20.31			
Channel				166300	167300	168300	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				831.5	836.5	841.5	24.5	0.0	
15	QPSK	1	1	23.74	23.69	23.79			
Channel				165800	167300	168800	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				829	836.5	844	24.5	0.0	
10	QPSK	1	1	23.75	23.67	23.69			
Channel				165300	167300	168300	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				826.5	836.5	846.5	24.5	0.0	
5	QPSK	1	1	23.80	23.68	23.84			

n7 Ant4 DS11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500000	507000	512000	20.0	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	18.73	18.74	18.53			
20	PI2 BPSK	1	53	18.66	18.65	18.49			
20	PI2 BPSK	1	104	18.61	18.70	18.65	20.0	0.0	
20	PI2 BPSK	50	0	18.60	18.78	18.67			
20	PI2 BPSK	50	28	18.77	18.75	18.73			
20	PI2 BPSK	50	56	18.49	18.67	18.58			
20	PI2 BPSK	100	0	18.69	18.71	18.66	20.0	0.0	
20	QPSK	1	1	18.73	18.82	18.77			
20	QPSK	1	53	18.66	18.65	18.62			
20	QPSK	1	104	18.54	18.60	18.56			
20	QPSK	50	0	18.55	18.57	18.56	19.0	1.0	
20	QPSK	50	28	18.43	18.66	18.42			
20	QPSK	50	56	18.48	18.63	18.64			
20	QPSK	100	0	18.62	18.66	18.64			
20	16QAM	1	1	18.69	18.75	18.66	20.0	0.0	
20	8QAM	1	1	18.67	18.70	18.71			
20	256QAM	1	1	18.75	18.78	18.70			
Channel				501500	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	20.0	0.0	
15	QPSK	1	1	18.64	18.80	18.64			
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.61	18.77	18.79	-20.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.51	18.61	18.64	20.0		

n66 Ant4 DS11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				346000	348000	350000	24.5	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.30	23.36	23.33			
40	PI2 BPSK	1	108	23.26	23.37	23.41			
40	PI2 BPSK	1	214	23.36	23.24	23.19	24.0	0.5	
40	PI2 BPSK	108	0	22.86	22.85	22.68			
40	PI2 BPSK	108	54	23.25	23.33	23.30			
40	PI2 BPSK	108	108	22.74	22.75	22.64			
40	PI2 BPSK	216	0	22.70	22.76	22.72	24.0	0.5	
40	QPSK	1	1	23.39	23.44	23.35			
40	QPSK	1	108	23.36	23.37	23.33			
40	QPSK	1	214	23.33	23.37	23.43			
40	QPSK	108	0	22.31	22.21	22.13	23.5	1.0	
40	QPSK	108	54	23.32	23.35	23.28			
40	QPSK	108	108	22.40	22.31	22.22			
40	QPSK	216	0	22.15	22.25	22.18			
40	16QAM	1	1	22.16	22.23	22.29	23.5	1.0	
40	8QAM	1	1	20.70	20.67	20.76			
40	256QAM	1	1	18.83	18.78	18.75			
Channel				344000	348000	354000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1720	1745	1770	24.5	0.0	
20	QPSK	1	1	23.23	23.25	23.13			
Channel				343000	348000	350000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1717.5	1745	1772.5	24.5	0.0	
15	QPSK	1	1	23.26	23.37	23.32			
Channel				343000	348000	350000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1715	1745	1775	24.5	0.0	
10	QPSK	1	1	23.33	23.43	23.35			
Channel				342000	348000	350500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1712.5	1745	1777.5	24.5	0.0	
5	QPSK	1	1	23.30	23.27	23.35			



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	20.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	Pi/2 BPSK	1	1	18.13	18.13	18.13	20.0	0.0
40	Pi/2 BPSK	1	53	18.22	18.19	18.24		
40	Pi/2 BPSK	1	104	18.09	18.25	18.15		
40	Pi/2 BPSK	50	0	18.03	18.20	18.13	20.0	0.0
40	Pi/2 BPSK	50	28	18.18	18.24	18.21	20.0	0.0
40	Pi/2 BPSK	50	56	18.14	18.24	18.12	20.0	0.0
40	Pi/2 BPSK	100	0	18.07	18.17	18.08	20.0	0.0
40	QPSK	1	1	18.23	18.28	18.15		
40	QPSK	1	53	18.14	18.24	18.11		
40	QPSK	1	104	18.18	18.27	18.03	20.0	0.0
40	QPSK	50	0	18.19	18.12	18.09	20.0	0.0
40	QPSK	50	28	18.15	18.26	18.14	20.0	0.0
40	QPSK	50	56	18.07	18.19	18.13	20.0	0.0
40	QPSK	100	0	18.03	18.21	18.03	20.0	0.0
40	16QAM	1	1	18.02	18.23	18.19	20.0	0.0
40	64QAM	1	1	18.16	18.24	18.04	20.0	0.0
40	256QAM	1	1	18.18	18.19	18.07	20.0	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	20.0	0.0
30	QPSK	1	1	18.01	18.10	18.07		
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	20.0	0.0
20	QPSK	1	1	17.92	18.19	18.01	20.0	0.0

PC2&3 n41 Ant4 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	20.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	Pi/2 BPSK	1	1	18.23	18.10	18.13	20.0	0.0
100	Pi/2 BPSK	1	137	18.15	18.25	18.23		
100	Pi/2 BPSK	1	271	18.20	18.16	18.25		
100	Pi/2 BPSK	135	0	18.29	18.32	18.16	20.0	0.0
100	Pi/2 BPSK	135	69	18.33	18.35	18.23	20.0	0.0
100	Pi/2 BPSK	135	138	18.12	18.25	18.09	20.0	0.0
100	Pi/2 BPSK	270	0	18.28	18.32	18.13	20.0	0.0
100	QPSK	1	1	18.31	18.37	18.21		
100	QPSK	1	137	18.29	18.36	18.19		
100	QPSK	1	271	18.24	18.26	18.24	20.0	0.0
100	QPSK	135	0	18.24	18.31	18.19	20.0	0.0
100	QPSK	135	69	18.30	18.35	18.21	20.0	0.0
100	QPSK	135	138	18.32	18.13	18.16	20.0	0.0
100	QPSK	270	0	18.22	18.26	18.23		
100	16QAM	1	1	18.13	18.18	18.25		
100	64QAM	1	1	18.34	18.26	17.95	20.0	0.0
100	256QAM	1	1	18.26	18.34	18.07	20.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	20.0	0.0
80	QPSK	1	1	18.21	18.37	18.23		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	20.0	0.0
60	QPSK	1	1	18.21	18.16	18.19		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	20.0	0.0
40	QPSK	1	1	18.11	18.16	18.18		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	20.0	0.0
30	QPSK	1	1	18.02	18.20	18.06		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	20.0	0.0
20	QPSK	1	1	18.13	18.18	18.14		



PC2&3 Part270 n77 Ant3 DSH1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.70	16.69	16.69	17.0	0.0
100	PI2 BPSK	1	137	16.70	16.60	16.75		
100	PI2 BPSK	1	271	16.73	16.66	16.72		
100	PI2 BPSK	135	0	16.67	16.67	16.62		
100	PI2 BPSK	135	69	16.51	16.71	16.62	17.0	0.0
100	PI2 BPSK	135	138	16.78	16.62	16.63		
100	PI2 BPSK	270	0	16.51	16.49	16.37		
100	QPSK	1	1	16.52	16.57	16.64		
100	QPSK	1	137	16.68	16.60	16.80	17.0	0.0
100	QPSK	1	271	16.49	16.49	16.55		
100	QPSK	135	0	16.68	16.65	16.70		
100	QPSK	135	69	16.62	16.75	16.55		
100	QPSK	135	138	16.49	16.51	16.47	17.0	0.0
100	QPSK	270	0	16.32	16.37	16.24		
100	16QAM	1	1	16.52	16.35	16.39		
100	64QAM	1	1	16.61	16.67	16.63		
100	256QAM	1	1	16.58	16.42	16.74	17.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3840.02		
80	QPSK	1	1	16.35	16.45	16.09	17.0	0.0
Channel				649500	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.52	16.38	16.29	17.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3965.02		
50	QPSK	1	1	16.50	16.29	16.23	17.0	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.19	16.54	16.30	17.0	0.0
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.46	16.54	16.15	17.0	0.0
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.32	16.64	16.15	17.0	0.0

PC2&3 Part270 n77 Ant3 DSH1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334		
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		16.68		17.0	0.0
100	PI2 BPSK	1	137		16.49			
100	PI2 BPSK	1	271		16.56			
100	PI2 BPSK	135	0		16.64			
100	PI2 BPSK	135	69		16.72		17.0	0.0
100	PI2 BPSK	135	138		16.56			
100	PI2 BPSK	270	0		16.43			
100	QPSK	1	1		16.77			
100	QPSK	1	137		16.45		17.0	0.0
100	QPSK	1	271		16.32			
100	QPSK	135	0		16.61			
100	QPSK	135	69		16.68			
100	QPSK	135	138		16.52		17.0	0.0
100	QPSK	270	0		16.20			
100	16QAM	1	1		16.28			
100	64QAM	1	1		16.56			
100	256QAM	1	1		16.20		17.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	16.31	16.30	16.04	17.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	16.36	16.46	16.02	17.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	16.27	16.24	16.09	17.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	16.29	16.44	16.00	17.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	16.17	16.30	16.00	17.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	16.20	16.23	15.90	17.0	0.0

PC2&3 Part270 n78 Ant3 DSH1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750				
100	PI2 BPSK	1	1		16.71		17.0	0.0
100	PI2 BPSK	1	137		16.75			
100	PI2 BPSK	1	271		16.70			
100	PI2 BPSK	135	0		16.77			
100	PI2 BPSK	135	69		16.72		17.0	0.0
100	PI2 BPSK	135	138		16.69			
100	PI2 BPSK	270	0		16.71			
100	QPSK	1	1		16.75			
100	QPSK	1	137		16.63		17.0	0.0
100	QPSK	1	271		16.66			
100	QPSK	135	0		16.76			
100	QPSK	135	69		16.79			
100	QPSK	135	138		16.65		17.0	0.0
100	QPSK	270	0		16.71			
100	16QAM	1	1		16.24			
100	64QAM	1	1		16.68			
100	256QAM	1	1		16.41		17.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.40	16.64	16.57	17.0	0.0
Channel				649000	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.46	16.61	16.48	17.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3785.02		
50	QPSK	1	1	16.36	16.65	16.64	17.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.37	16.72	16.63	17.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.48	16.68	16.61	17.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.45	16.62	16.65	17.0	0.0



PC2&3 Part27Q n78 Ant3 DSI1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1	16.66			17.0	0.0
100	PI2 BPSK	1	137	16.67				
100	PI2 BPSK	1	271	16.50				
100	PI2 BPSK	135	0	16.64			17.0	0.0
100	PI2 BPSK	135	69	16.67				
100	PI2 BPSK	135	138	16.65				
100	PI2 BPSK	270	0	16.53			17.0	0.0
100	QPSK	1	1	16.76				
100	QPSK	1	137	16.62			17.0	0.0
100	QPSK	1	271	16.49				
100	QPSK	135	0	16.55				
100	QPSK	135	69	16.67			17.0	0.0
100	QPSK	135	138	16.47				
100	QPSK	270	0	16.55				
100	16QAM	1	1	16.03			17.0	0.0
100	64QAM	1	1	16.51			17.0	0.0
100	256QAM	1	1	16.38			17.0	0.0
Channel				632868	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	16.55	16.75	16.45	17.0	0.0
Channel				632303	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	16.50	16.69	16.46	17.0	0.0
Channel				631868	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.02	3500.01	3520		
50	QPSK	1	67	16.57	16.67	16.59	17.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	16.40	16.63	16.51	17.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	16.55	16.69	16.44	17.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	16.44	16.68	16.45	17.0	0.0



PC2&3 Part270 n77 Ant5 DS1H									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	17.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	15.76	15.75	15.68			
100	Pl2 BPSK	1	137	15.69	15.67	15.61			
100	Pl2 BPSK	1	271	15.77	15.75	15.74	17.0	0.0	
100	Pl2 BPSK	135	0	15.62	15.59	15.74	17.0	0.0	
100	Pl2 BPSK	135	69	15.60	15.77	15.70	17.0	0.0	
100	Pl2 BPSK	135	138	15.58	15.69	15.62	17.0	0.0	
100	Pl2 BPSK	270	0	15.51	15.56	15.42	17.0	0.0	
100	QPSK	1	1	15.80	15.85	15.61	17.0	0.0	
100	QPSK	1	137	15.78	15.72	15.70			
100	QPSK	1	271	15.52	15.45	15.52			
100	QPSK	135	0	15.67	15.74	15.75			
100	QPSK	135	69	15.60	15.86	15.77	17.0	0.0	
100	QPSK	135	138	15.40	15.60	15.58	17.0	0.0	
100	QPSK	270	0	15.52	15.57	15.52	17.0	0.0	
100	16QAM	1	1	15.55	15.47	15.49	17.0	0.0	
100	64QAM	1	1	15.61	15.78	15.75	17.0	0.0	
100	256QAM	1	1	15.50	15.52	15.74	17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3840.02	17.0	0.0	
80	QPSK	1	1	15.78	15.60	15.55	17.0	0.0	
Channel				635500	650000	633334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	17.0	0.0	
60	QPSK	1	1	15.80	15.83	15.67	17.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3985.02	17.0	0.0	
50	QPSK	1	1	15.71	15.87	15.57	17.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990	17.0	0.0	
40	QPSK	1	1	15.58	15.48	15.53	17.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3985.01	17.0	0.0	
30	QPSK	1	1	15.40	15.39	15.62	17.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	17.0	0.0	
20	QPSK	1	1	15.45	15.56	15.43	17.0	0.0	

PC2&3 Part270 n77 Ant5 DS1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	635000	17.0	0.0	
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	15.74					
100	Pl2 BPSK	1	137	15.57					
100	Pl2 BPSK	1	271	15.67			17.0	0.0	
100	Pl2 BPSK	135	0	15.55			17.0	0.0	
100	Pl2 BPSK	135	69	15.74			17.0	0.0	
100	Pl2 BPSK	135	138	15.59			17.0	0.0	
100	Pl2 BPSK	270	0	15.47			17.0	0.0	
100	QPSK	1	1	15.80			17.0	0.0	
100	QPSK	1	137	15.65					
100	QPSK	1	271	15.36					
100	QPSK	135	0	15.68					
100	QPSK	135	69	15.67			17.0	0.0	
100	QPSK	135	138	15.59			17.0	0.0	
100	QPSK	270	0	15.63			17.0	0.0	
100	16QAM	1	1	15.44			17.0	0.0	
100	64QAM	1	1	15.72			17.0	0.0	
100	256QAM	1	1	15.42			17.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	17.0	0.0	
80	QPSK	1	109	15.49	15.69	15.48	17.0	0.0	
Channel				632500	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	17.0	0.0	
60	QPSK	1	81	15.54	15.60	15.42	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	17.0	0.0	
50	QPSK	1	67	15.59	15.64	15.43	17.0	0.0	
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	17.0	0.0	
40	QPSK	1	53	15.68	15.56	15.35	17.0	0.0	
Channel				631000	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	17.0	0.0	
30	QPSK	1	39	15.71	15.52	15.47	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	17.0	0.0	
20	QPSK	1	26	15.62	15.55	15.41	17.0	0.0	

PC2&3 Part270 n78 Ant5 DS1H									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	17.0	0.0	
Frequency (MHz)				3750					
100	Pl2 BPSK	1	1	15.57					
100	Pl2 BPSK	1	137	15.44			17.0	0.0	
100	Pl2 BPSK	1	271	15.58			17.0	0.0	
100	Pl2 BPSK	135	0	15.57			17.0	0.0	
100	Pl2 BPSK	135	69	15.58			17.0	0.0	
100	Pl2 BPSK	135	138	15.60			17.0	0.0	
100	Pl2 BPSK	270	0	15.48			17.0	0.0	
100	QPSK	1	1	15.65			17.0	0.0	
100	QPSK	1	137	15.54					
100	QPSK	1	271	15.57					
100	QPSK	135	0	15.60					
100	QPSK	135	69	15.62			17.0	0.0	
100	QPSK	135	138	15.55			17.0	0.0	
100	QPSK	270	0	15.45			17.0	0.0	
100	16QAM	1	1	15.09			17.0	0.0	
100	64QAM	1	1	15.37			17.0	0.0	
100	256QAM	1	1	15.21			17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	17.0	0.0	
80	QPSK	1	1	15.35	15.54	15.23	17.0	0.0	
Channel				648000	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	17.0	0.0	
60	QPSK	1	1	15.27	15.57	15.35	17.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	17.0	0.0	
50	QPSK	1	1	15.25	15.39	15.14	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	17.0	0.0	
40	QPSK	1	1	15.24	15.51	15.33	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	17.0	0.0	
30	QPSK	1	1	15.18	15.54	15.32	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3780.02	17.0	0.0	
20	QPSK	1	1	15.23	15.51	15.24	17.0	0.0	

PC2&3 Part27Q n78 Ant5 DSI1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334			17.0	0.0
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	15.42			17.0	0.0
100	PI2 BPSK	1	137	15.27				
100	PI2 BPSK	1	271	15.59				
100	PI2 BPSK	135	0	15.55				
100	PI2 BPSK	135	69	15.50			17.0	0.0
100	PI2 BPSK	135	138	15.49				
100	PI2 BPSK	270	0	15.41				
100	QPSK	1	1	15.01				
100	QPSK	1	137	15.44			17.0	0.0
100	QPSK	1	271	15.50				
100	QPSK	135	0	15.41				
100	QPSK	135	69	15.56				
100	QPSK	135	138	15.44			17.0	0.0
100	QPSK	270	0	15.41				
100	16QAM	1	1	15.04				
100	64QAM	1	1	15.36				
100	256QAM	1	1	15.06			17.0	0.0
Channel				632868	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	109	15.22	15.45	15.21	17.0	0.0
Channel				632303	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	81	15.33	15.47	15.18	17.0	0.0
Channel				631868	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3470.02	3500.01	3520	(dBm)	(dB)
50	QPSK	1	67	15.18	15.49	15.25	17.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	53	15.15	15.38	15.33	17.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	39	15.35	15.40	15.38	17.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	25	15.24	15.32	15.21	17.0	0.0



n5 Ant0 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166300	167300	167600	25.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	25.16	25.24	25.19			
20	PI2 BPSK	1	53	25.11	25.22	25.17	25.0	0.5	
20	PI2 BPSK	1	104	25.07	25.01	24.96			
20	PI2 BPSK	50	0	24.71	24.64	24.62			
20	PI2 BPSK	50	28	25.23	25.14	25.07	25.5	0.0	
20	PI2 BPSK	50	56	24.62	24.57	24.47			
20	PI2 BPSK	100	0	24.09	24.66	24.64			
20	QPSK	1	1	25.19	25.35	25.18	25.5	0.0	
20	QPSK	1	53	25.23	25.20	25.12			
20	QPSK	1	104	24.90	24.94	24.98			
20	QPSK	50	0	24.21	24.19	24.13	24.5	1.0	
20	QPSK	50	28	25.21	25.35	25.18			
20	QPSK	50	56	24.16	24.18	24.13			
20	QPSK	100	0	24.10	24.16	24.08	24.5	1.0	
20	16QAM	1	1	24.13	24.17	24.09			
20	64QAM	1	1	22.81	22.90	22.95		23.0	
20	256QAM	1	1	20.55	20.56	20.48			
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	25.5	0.0	
15	QPSK	1	1	25.14	25.17	25.17			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	25.5	0.0	
10	QPSK	1	1	25.06	25.23	25.01			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				805.5	836.5	846.5	25.5	0.0	
5	QPSK	1	1	25.04	25.23	25.14			

n7 Ant0 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	513000	25.5	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	24.48	24.58	24.60			
20	PI2 BPSK	1	53	24.52	24.59	24.52	25.0	0.5	
20	PI2 BPSK	1	104	24.54	24.62	24.49			
20	PI2 BPSK	50	0	24.04	24.09	24.13			
20	PI2 BPSK	50	28	24.52	24.64	24.56	25.5	0.0	
20	PI2 BPSK	50	56	23.99	24.09	24.07			
20	PI2 BPSK	100	0	24.15	24.18	24.17			
20	QPSK	1	1	24.80	24.65	24.59	25.5	0.0	
20	QPSK	1	53	24.39	24.42	24.38			
20	QPSK	1	104	24.60	24.62	24.58			
20	QPSK	50	0	23.89	23.78	23.72	24.5	1.0	
20	QPSK	50	28	24.47	24.64	24.62			
20	QPSK	50	56	23.77	23.67	23.57			
20	QPSK	100	0	23.72	23.74	23.68	24.5	1.0	
20	16QAM	1	1	23.48	23.51	23.43			
20	64QAM	1	1	22.30	22.28	22.34		23.0	
20	256QAM	1	1	19.80	19.95	19.95			
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	25.5	0.0	
15	QPSK	1	1	24.38	24.60	24.59			
Channel				510100	512000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	25.5	0.0	
10	QPSK	1	1	24.22	24.53	24.43			
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.5	2535	2577.5	25.5	0.0	
5	QPSK	1	1	24.27	24.62	24.38			

n66 Ant0 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346900	349000	350500	25.5	0.0	
Frequency (MHz)				1739	1745	1760			
40	PI2 BPSK	1	1	24.12	24.08	24.20			
40	PI2 BPSK	1	103	24.04	24.15	24.04	25.0	0.5	
40	PI2 BPSK	1	214	24.11	24.22	24.16			
40	PI2 BPSK	108	0	23.68	23.66	23.70			
40	PI2 BPSK	108	54	24.22	24.22	24.09	25.0	0.5	
40	PI2 BPSK	108	108	23.70	23.64	23.66			
40	PI2 BPSK	216	0	23.99	23.66	23.65			
40	QPSK	1	1	24.17	24.28	24.16	25.5	0.0	
40	QPSK	1	108	24.12	24.17	24.08			
40	QPSK	1	214	24.14	24.19	24.19			
40	QPSK	108	0	23.07	23.02	23.18	24.5	1.0	
40	QPSK	108	54	24.04	24.16	24.09			
40	QPSK	108	108	23.07	23.16	23.25			
40	QPSK	216	0	23.09	23.07	23.05	24.5	1.0	
40	16QAM	1	1	23.04	23.00	23.02			
40	64QAM	1	1	21.72	21.76	21.75		23.0	
40	256QAM	1	1	19.32	19.43	19.27			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1728	1745	1770	25.5	0.0	
20	QPSK	1	1	24.10	24.13	24.05			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	25.5	0.0	
15	QPSK	1	1	23.96	23.98	23.90			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1714	1745	1774	25.5	0.0	
10	QPSK	1	1	24.10	24.18	24.07			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	25.5	0.0	
5	QPSK	1	1	24.12	24.19	24.13			



n38 Ant0 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519698	25.5	0.0	
Frequency (MHz)				2590.02	2598	2599.98			
40	PI2 BPSK	1	1	24.40	24.49	24.38			
40	PI2 BPSK	1	53	24.43	24.47	24.56			
40	PI2 BPSK	1	104	24.43	24.45	24.39	25.0	0.5	
40	PI2 BPSK	50	0	24.03	23.94	23.95	25.0	0.5	
40	PI2 BPSK	50	28	24.45	24.41	24.42	25.5	0.0	
40	PI2 BPSK	50	56	23.91	23.95	23.89	25.0	0.5	
40	PI2 BPSK	100	0	23.77	23.86	23.86	25.5	0.0	
40	QPSK	1	1	24.58	24.58	24.55			
40	QPSK	1	53	24.45	24.55	24.53			
40	QPSK	1	104	24.48	24.52	24.49			
40	QPSK	50	0	23.48	23.50	23.51	24.5	1.0	
40	QPSK	50	28	24.44	24.46	24.34	25.5	0.0	
40	QPSK	50	56	23.59	23.53	23.54	24.5	1.0	
40	QPSK	100	0	23.44	23.56	23.53	24.5	1.0	
40	16QAM	1	1	23.48	23.48	23.58			
40	64QAM	1	1	22.28	22.21	22.32			
40	256QAM	1	1	19.67	19.70	19.88			
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2596	2604.99	25.5	0.0	
30	QPSK	1	1	24.47	24.42	24.42	25.5	0.0	
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2598	2610	25.5	0.0	
20	QPSK	1	1	24.53	24.41	24.39	25.5	0.0	

n41 Ant0 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518098	520000	25.5	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	24.52	24.50	24.61			
100	PI2 BPSK	1	137	24.62	24.57	24.59			
100	PI2 BPSK	1	271	24.51	24.62	24.58	25.5	0.0	
100	PI2 BPSK	135	0	24.56	24.52	24.38	25.5	0.0	
100	PI2 BPSK	135	66	24.54	24.52	24.53	25.5	0.0	
100	PI2 BPSK	135	138	24.56	24.49	24.48	25.5	0.0	
100	PI2 BPSK	270	0	24.38	24.51	24.40	25.5	0.0	
100	QPSK	1	1	24.48	24.64	24.60			
100	QPSK	1	137	24.55	24.48	24.54			
100	QPSK	1	271	24.55	24.60	24.62			
100	QPSK	135	0	24.43	24.37	24.49	25.5	0.0	
100	QPSK	135	66	24.52	24.53	24.41	25.5	0.0	
100	QPSK	135	138	24.38	24.43	24.34	25.5	0.0	
100	QPSK	270	0	24.40	24.48	24.42	25.5	0.0	
100	16QAM	1	1	24.58	24.62	24.56			
100	64QAM	1	1	23.30	23.66	23.48			
100	256QAM	1	1	21.59	21.41	21.40			
Channel				507204	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	25.5	0.0	
80	QPSK	1	1	24.57	24.60	24.48	25.5	0.0	
Channel				505200	518098	519000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2609.98	25.5	0.0	
60	QPSK	1	1	24.43	24.53	24.48	25.5	0.0	
Channel				503202	518098	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	25.5	0.0	
40	QPSK	1	1	24.49	24.62	24.58	25.5	0.0	
Channel				502200	518098	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	25.5	0.0	
30	QPSK	1	1	24.61	24.58	24.49	25.5	0.0	
Channel				501204	518098	539998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99	25.5	0.0	
20	QPSK	1	1	24.57	24.63	24.63	25.5	0.0	

n41 PC2 Ant0 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518098	520000	27.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	26.10	26.12	26.11			
100	PI2 BPSK	1	137	26.17	26.11	26.17			
100	PI2 BPSK	1	271	26.10	26.17	26.14	23.5	3.5	
100	PI2 BPSK	135	0	26.07	26.13	26.08	23.5	3.5	
100	PI2 BPSK	135	66	26.15	26.10	25.99	27.0	0.0	
100	PI2 BPSK	135	138	25.53	25.50	25.51	23.5	3.5	
100	PI2 BPSK	270	0	25.61	25.52	25.60	26.5	0.5	
100	QPSK	1	1	26.18	26.24	26.08	27.0	0.0	
100	QPSK	1	137	25.61	25.65	25.69	23.5	3.5	
100	QPSK	1	271	26.13	26.10	26.16			
100	QPSK	135	0	25.02	25.00	24.99			
100	QPSK	135	66	25.67	25.78	25.64			
100	QPSK	135	138	25.10	24.99	24.90	23.5	3.5	
100	QPSK	270	0	24.95	25.00	24.95	26.5	0.5	
100	16QAM	1	1	24.88	24.87	24.87	26.0	1.0	
100	64QAM	1	1	23.78	23.78	23.73	24.5	2.5	
100	256QAM	1	1	21.72	21.67	21.68	22.5	4.5	
Channel				507204	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	25.5	0.0	
80	QPSK	1	1	26.03	26.19	25.91	27.0	0.0	
Channel				505200	518098	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2609.98	27.0	0.0	
60	QPSK	1	1	25.99	26.20	26.03	27.0	0.0	
Channel				503202	518098	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	27.0	0.0	
40	QPSK	1	1	26.17	26.07	26.09	27.0	0.0	
Channel				502200	518098	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	27.0	0.0	
30	QPSK	1	1	26.04	26.09	26.05	27.0	0.0	
Channel				501204	518098	539998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99	27.0	0.0	
20	QPSK	1	1	26.14	26.10	26.07	27.0	0.0	



n5 Ant4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166300	167300	167600	25.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.95	24.94	24.86			
20	PI2 BPSK	1	53	24.86	24.91	24.82	25.0	0.5	
20	PI2 BPSK	1	104	24.70	24.75	24.66			
20	PI2 BPSK	50	0	24.40	24.45	24.48			
20	PI2 BPSK	50	28	24.89	24.85	24.85	25.5	0.0	
20	PI2 BPSK	50	56	24.46	24.38	24.36			
20	PI2 BPSK	100	0	24.39	24.35	24.44			
20	QPSK	1	1	23.76	23.87	23.89	25.5	0.0	
20	QPSK	1	53	24.94	24.85	24.90			
20	QPSK	1	104	24.26	24.24	24.13			
20	QPSK	50	0	23.87	23.90	23.84	24.5	1.0	
20	QPSK	50	28	24.70	23.87	24.81			
20	QPSK	50	56	23.87	23.89	23.79			
20	QPSK	100	0	23.78	23.89	23.69	24.5	1.0	
20	16QAM	1	1	23.97	23.87	23.86			
20	64QAM	1	1	22.23	22.14	22.13		23.0	
20	256QAM	1	1	19.92	19.99	20.02	21.0		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	24.61	24.81	24.72	25.5	0.0	
Channel				163300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.68	24.85	24.87	25.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				801.5	836.5	846.5			
5	QPSK	1	1	24.71	24.90	24.80	25.5	0.0	

n7 Ant4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	513000	24.5	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	23.08	23.09	23.02			
20	PI2 BPSK	1	53	23.05	23.09	23.08	24.0	0.5	
20	PI2 BPSK	1	104	22.98	23.08	22.97			
20	PI2 BPSK	50	0	22.80	22.82	22.59			
20	PI2 BPSK	50	28	23.09	22.98	23.08	24.0	0.5	
20	PI2 BPSK	50	56	22.53	22.54	22.41			
20	PI2 BPSK	100	0	22.52	22.53	22.84			
20	QPSK	1	1	22.98	23.14	23.09	24.5	0.0	
20	QPSK	1	53	23.03	23.08	22.94			
20	QPSK	1	104	23.05	23.06	22.91			
20	QPSK	50	0	21.96	22.03	22.01	23.5	1.0	
20	QPSK	50	28	22.93	22.96	22.87			
20	QPSK	50	56	22.01	22.07	21.98			
20	QPSK	100	0	22.13	22.22	22.21	23.5	1.0	
20	16QAM	1	1	22.24	22.21	22.22			
20	64QAM	1	1	20.44	20.51	20.48		22.0	
20	256QAM	1	1	18.52	18.48	18.41	20.0		
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.00	23.06	23.03	24.5	0.0	
Channel				511000	512000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.98	22.91	22.94	-24.5	0.0	
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.01	23.12	22.96	24.5	0.0	

n66 Ant4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346900	349000	350500	24.5	0.0	
Frequency (MHz)				1739	1745	1760			
40	PI2 BPSK	1	1	23.30	23.36	23.33			
40	PI2 BPSK	1	108	23.26	23.37	23.41	24.0	0.5	
40	PI2 BPSK	1	214	23.36	23.24	23.19			
40	PI2 BPSK	108	0	22.88	22.85	22.68			
40	PI2 BPSK	108	54	23.25	23.33	23.30	24.0	0.5	
40	PI2 BPSK	108	108	22.74	22.75	22.64			
40	PI2 BPSK	216	0	22.76	22.76	22.72			
40	QPSK	1	1	23.38	23.44	23.35	24.5	0.0	
40	QPSK	1	108	23.38	23.37	23.33			
40	QPSK	1	214	23.33	23.37	23.43			
40	QPSK	108	0	22.51	22.51	22.13	23.5	1.0	
40	QPSK	108	54	23.32	23.35	23.28			
40	QPSK	108	108	22.40	22.31	22.22			
40	QPSK	216	0	22.15	22.25	22.16	23.5	1.0	
40	16QAM	1	1	22.16	22.23	22.29			
40	64QAM	1	1	20.70	20.67	20.76		22.0	
40	256QAM	1	1	18.83	18.78	18.75	20.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1728	1745	1770			
20	QPSK	1	1	23.23	23.25	23.13	0.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.26	23.37	23.32	24.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1714	1745	1775			
10	QPSK	1	1	23.33	23.43	23.35	24.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.30	23.27	23.35	24.5	0.0	



n38 Ant4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519698	24.5	0.0	
Frequency (MHz)				2590.02	2596	2599.98			
40	PI2 BPSK	1	1	23.15	23.20	23.24			
40	PI2 BPSK	1	53	23.14	23.10	23.08			
40	PI2 BPSK	1	104	23.02	23.08	22.99	24.0	0.5	
40	PI2 BPSK	50	0	22.54	22.50	22.39	24.0	0.0	
40	PI2 BPSK	50	28	22.97	22.90	22.84	24.5	0.0	
40	PI2 BPSK	50	56	22.47	22.44	22.46	24.0	0.5	
40	PI2 BPSK	100	0	22.43	22.40	22.28			
40	QPSK	1	1	23.15	23.20	23.24			
40	QPSK	1	53	23.08	23.24	23.11	24.5	0.0	
40	QPSK	1	104	23.12	23.21	23.07	23.5	1.0	
40	QPSK	50	0	22.10	21.99	22.05			
40	QPSK	50	28	23.17	23.20	23.17			
40	QPSK	50	56	22.09	22.21	22.22			
40	QPSK	100	0	22.15	22.20	22.18	23.5	1.0	
40	16QAM	1	1	22.45	22.35	22.34	23.5	1.0	
40	64QAM	1	1	20.91	20.92	20.84	22.0	2.5	
40	256QAM	1	1	18.78	18.99	18.92	20.0	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	24.5	0.0	
30	QPSK	1	1	23.12	23.27	23.05			
Channel				510000	519000	520000		Tune-up limit (dBm)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	23.05	23.14	23.16	24.5	0.0	

n41 Ant4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518098	520000	24.5	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	23.28	23.25	23.26			
100	PI2 BPSK	1	137	23.19	23.28	23.16			
100	PI2 BPSK	1	271	23.24	23.24	23.21	24.0	0.5	
100	PI2 BPSK	135	0	23.23	23.16	23.28	24.0	0.5	
100	PI2 BPSK	135	66	23.20	23.26	23.18	24.5	0.0	
100	PI2 BPSK	135	138	23.12	23.10	23.20	24.0	0.5	
100	PI2 BPSK	270	0	23.06	23.18	23.10			
100	QPSK	1	1	23.25	23.26	23.25			
100	QPSK	1	137	23.14	23.23	23.23	24.5	0.0	
100	QPSK	1	271	23.18	23.19	23.11	23.5	1.0	
100	QPSK	135	0	23.06	23.22	23.15			
100	QPSK	135	66	23.14	23.28	23.23			
100	QPSK	135	138	23.02	23.10	23.08			
100	QPSK	270	0	23.05	23.26	23.16	23.5	1.0	
100	16QAM	1	1	23.12	23.23	23.25	23.5	1.0	
100	64QAM	1	1	22.37	22.40	22.37	22.0	2.5	
100	256QAM	1	1	20.16	20.24	20.02	20.0	4.5	
Channel				507204	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.5	0.0	
80	QPSK	1	1	23.22	23.26	23.12			
Channel				510000	518098	519000		Tune-up limit (dBm)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.23	23.09	23.08	24.5	0.0	
Channel				503002	518098	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.5	0.0	
40	QPSK	1	1	23.25	23.17	23.16			
Channel				502200	518098	534998		Tune-up limit (dBm)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.17	23.25	23.09	24.5	0.0	
Channel				501004	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99	24.5	0.0	
20	QPSK	1	1	23.07	23.19	23.23			

n41 PC2 Ant4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518098	520000	26.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	24.35	24.38	24.32			
100	PI2 BPSK	1	137	24.30	24.37	24.36			
100	PI2 BPSK	1	271	24.35	24.36	24.32	26.0	0.5	
100	PI2 BPSK	135	0	23.79	23.88	23.88	25.5	0.5	
100	PI2 BPSK	135	66	24.37	24.31	24.26	26.0	0.0	
100	PI2 BPSK	135	138	23.65	23.72	23.77	25.5	0.5	
100	PI2 BPSK	270	0	23.75	23.86	23.83			
100	QPSK	1	1	24.35	24.63	24.30			
100	QPSK	1	137	23.77	23.89	23.80			
100	QPSK	1	271	24.31	24.23	24.20	25.0	1.0	
100	QPSK	135	0	23.21	23.30	23.19			
100	QPSK	135	66	24.17	24.07	24.15			
100	QPSK	135	138	22.99	22.61	22.54			
100	QPSK	270	0	23.30	23.46	23.36	25.0	1.0	
100	16QAM	1	1	22.28	22.36	22.46	25.0	1.0	
100	64QAM	1	1	21.54	21.46	21.46	23.5	2.5	
100	256QAM	1	1	19.84	19.76	19.75	21.5	4.5	
Channel				507204	518098	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	26.0	0.0	
80	QPSK	1	1	24.30	24.37	24.20			
Channel				503002	518098	531000		Tune-up limit (dBm)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	24.31	24.34	24.09	26.0	0.0	
Channel				503002	518098	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	26.0	0.0	
40	QPSK	1	1	24.35	24.19	24.07			
Channel				502200	518098	534998		Tune-up limit (dBm)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.35	24.31	24.15	26.0	0.0	
Channel				501004	518098	532000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99	26.0	0.0	
20	QPSK	1	1	24.33	24.16	24.14			



PC2&3 Part270 n77 Ant3 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	17.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	16.37	16.33	16.24	17.0	0.0	
100	PI2 BPSK	1	137	16.35	16.38	16.38			
100	PI2 BPSK	1	271	16.32	16.43	16.50	17.0	0.0	
100	PI2 BPSK	135	0	16.44	16.39	16.53			
100	PI2 BPSK	135	69	16.42	16.37	16.50	17.0	0.0	
100	PI2 BPSK	135	138	16.56	16.33	16.31			
100	PI2 BPSK	270	0	16.19	16.20	16.24	17.0	0.0	
100	QPSK	1	1	16.55	16.72	16.51			
100	QPSK	1	137	16.25	16.44	16.49	17.0	0.0	
100	QPSK	1	271	16.29	16.31	16.31			
100	QPSK	135	0	15.43	15.43	15.31	17.0	0.0	
100	QPSK	135	69	16.41	16.66	16.46			
100	QPSK	135	138	16.22	16.34	16.31	17.0	0.0	
100	QPSK	270	0	16.22	16.46	16.09			
100	16QAM	1	1	15.91	15.96	16.25	17.0	0.0	
100	64QAM	1	1	16.44	16.36	16.43			
100	256QAM	1	1	16.40	16.25	16.34	17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	16.24	16.42	15.99	17.0	0.0	
Channel				649556	650000	650334			
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	16.40	16.41	16.27	17.0	0.0	
Channel				648334	650000	650668			
Frequency (MHz)				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.35	16.29	15.96	17.0	0.0	
Channel				648000	650000	654000			
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.27	16.17	16.01	17.0	0.0	
Channel				647666	650000	653334			
Frequency (MHz)				3715.02	3840	3965.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.14	16.29	15.93	17.0	0.0	
Channel				647334	650000	654668			
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.23	16.25	16.03	17.0	0.0	

PC2&3 Part27Q n77 Ant3 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334			17.0	0.0	
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	16.46			17.0	0.0	
100	PI2 BPSK	1	137	16.34					
100	PI2 BPSK	1	271	16.39			17.0	0.0	
100	PI2 BPSK	135	0	16.47					
100	PI2 BPSK	135	69	16.56			17.0	0.0	
100	PI2 BPSK	135	138	16.51					
100	PI2 BPSK	270	0	16.33			17.0	0.0	
100	QPSK	1	1	16.58					
100	QPSK	1	137	16.47			17.0	0.0	
100	QPSK	1	271	16.34					
100	QPSK	135	0	16.46			17.0	0.0	
100	QPSK	135	69	16.48					
100	QPSK	135	138	16.34			17.0	0.0	
100	QPSK	270	0	16.41					
100	16QAM	1	1	16.33			17.0	0.0	
100	64QAM	1	1	16.33					
100	256QAM	1	1	16.42			17.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	16.29	16.30	16.31	17.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	16.42	16.25	16.34	17.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	16.34	16.31	16.24	17.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	16.30	16.19	16.32	17.0	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39	16.30	16.18	16.28	17.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	16.36	16.29	16.30	17.0	0.0	

Part270 n78 PC2&3 Ant3 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	17.0	0.0	
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	16.62			17.0	0.0	
100	PI2 BPSK	1	137	16.61					
100	PI2 BPSK	1	271	16.61			17.0	0.0	
100	PI2 BPSK	135	0	16.63					
100	PI2 BPSK	135	69	16.59			17.0	0.0	
100	PI2 BPSK	135	138	16.66					
100	PI2 BPSK	270	0	16.83			17.0	0.0	
100	QPSK	1	1	16.68					
100	QPSK	1	137	16.62			17.0	0.0	
100	QPSK	1	271	16.52					
100	QPSK	135	0	16.42			17.0	0.0	
100	QPSK	135	69	16.51					
100	QPSK	135	138	16.41			17.0	0.0	
100	QPSK	270	0	16.61					
100	16QAM	1	1	16.48			17.0	0.0	
100	64QAM	1	1	16.55					
100	256QAM	1	1	16.53			17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	16.56	16.69	16.72	17.0	0.0	
Channel				649556	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	16.48	16.60	16.74	17.0	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	16.51	16.66	16.60	17.0	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	16.52	16.68	16.73	17.0	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	16.53	16.70	16.63	17.0	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	16.54	16.57	16.74	17.0	0.0	

PC2&3 Part27Q n78 Ant3 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR (dB)	
Channel				633334			17.0	0.0	
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		16.34		17.0	0.0	
100	PI2 BPSK	1	137		16.40				
100	PI2 BPSK	1	271		16.37				
100	PI2 BPSK	135	0		16.37		17.0	0.0	
100	PI2 BPSK	135	69		16.36		17.0	0.0	
100	PI2 BPSK	135	138		16.34		17.0	0.0	
100	PI2 BPSK	270	0		16.41				
100	QPSK	1	1		16.43		17.0	0.0	
100	QPSK	1	137		16.31				
100	QPSK	1	271		16.24				
100	QPSK	135	0		16.26		17.0	0.0	
100	QPSK	135	69		16.36		17.0	0.0	
100	QPSK	135	138		16.31		17.0	0.0	
100	QPSK	270	0		16.39				
100	16QAM	1	1		16.27		17.0	0.0	
100	64QAM	1	1		16.36		17.0	0.0	
100	256QAM	1	1		16.29		17.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3480.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	16.29	16.32	16.25	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	16.24	16.33	16.24	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3415.02	3500.01	3585	(dBm)	(dB)	
50	QPSK	1	67	16.23	16.26	16.20	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	16.29	16.23	16.27	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	39	16.29	16.31	16.21	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	16.24	16.30	16.23	17.0	0.0	

PC2&3 Part270 n77 Ant5 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 94.534 MHz	Power Max Ch. Freq. 94.534 MHz	Power High Ch. Freq. 94.534 MHz	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	F300 BPSK	1	1	22.67	22.64	22.69			
100	F300 BPSK	1	137	22.65	22.74	22.65	24.0	0.0	
100	F300 BPSK	1	271	22.61	22.71	22.61			
100	F300 BPSK	135	0	22.58	22.57	22.53	24.0	0.0	
100	F300 BPSK	239	0	22.59	22.72	22.59	24.0	0.0	
100	F300 BPSK	135	136	22.66	22.69	22.69	24.0	0.0	
100	F300 BPSK	270	0	22.56	22.67	22.76			
100	QPSK	1	1	22.76	22.85	22.67			
100	QPSK	1	137	22.76	22.89	22.62	24.0	0.0	
100	QPSK	1	271	22.71	22.67	22.59			
100	QPSK	135	0	22.47	22.52	22.41	24.0	0.0	
100	QPSK	239	0	22.48	22.66	22.48	24.0	0.0	
100	QPSK	135	136	22.79	22.68	22.64	24.0	0.0	
100	QPSK	270	0	22.47	22.77	22.56			
100	HQAM	1	1	22.61	22.56	22.46	24.0	0.0	
100	HQAM	1	1	22.85	22.74	22.77	24.0	0.0	
100	DSHSS	1	1	21.76	22.06	21.54	22.5	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.66	22.56	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.59	22.46	22.41	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.61	22.76	22.57	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.54	22.70	22.73	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.68	22.77	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.58	22.78	22.75	24.0	0.0	

PC2&3 Part270 n77 Ant5 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	F300 BPSK	1	1		22.57				
100	F300 BPSK	1	137		22.25		24.0	0.0	
100	F300 BPSK	1	271		22.25				
100	F300 BPSK	135	0		22.24		24.0	0.0	
100	F300 BPSK	239	0		22.56		24.0	0.0	
100	F300 BPSK	135	136		22.57		24.0	0.0	
100	F300 BPSK	270	0		22.26				
100	QPSK	1	1		22.86				
100	QPSK	1	137		22.24		24.0	0.0	
100	QPSK	1	271		22.27				
100	QPSK	135	0		22.30		24.0	0.0	
100	QPSK	239	0		22.46		24.0	0.0	
100	QPSK	135	136		22.31		24.0	0.0	
100	QPSK	270	0		22.31		24.0	0.0	
100	HQAM	1	1		22.26		24.0	0.0	
100	HQAM	1	1		22.23		24.0	0.0	
100	DSHSS	1	1		21.61		22.5	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	106	22.21	22.20	22.25	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	22.04	22.14	22.21	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.09	22.16	22.25	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.04	22.10	22.18	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	36	22.11	22.12	22.19	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.11	22.13	22.17	24.0	0.0	

PC2&3 Part270 n78 Ant5 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Max Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	F300 BPSK	1	1	22.45	22.45				
100	F300 BPSK	1	137		22.53		24.0	0.0	
100	F300 BPSK	1	271		22.54				
100	F300 BPSK	135	0		22.36		24.0	0.0	
100	F300 BPSK	239	0		22.49		24.0	0.0	
100	F300 BPSK	135	136		22.58		24.0	0.0	
100	F300 BPSK	270	0		22.63				
100	QPSK	1	1		22.86				
100	QPSK	1	137		22.49		24.0	0.0	
100	QPSK	1	271		22.63				
100	QPSK	135	0		22.37		23.0	1.0	
100	QPSK	239	0		22.54		24.0	0.0	
100	QPSK	135	136		22.54		23.0	1.0	
100	QPSK	270	0		22.57		24.0	0.0	
100	HQAM	1	1		22.54		24.0	0.0	
100	HQAM	1	1		22.61		24.0	0.0	
100	DSHSS	1	1		21.61		22.5	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.61	22.56	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.57	22.42	22.40	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.48	22.61	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.61	22.56	22.53	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.59	22.48	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.54	22.63	22.48	24.0	0.0	

PC2&3 Part270 n78 Ant5 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	F300 BPSK	1	1	21.86					
100	F300 BPSK	1	137		22.29		24.0	0.0	
100	F300 BPSK	1	271		22.17				
100	F300 BPSK	135	0		22.12		24.0	0.0	
100	F300 BPSK	239	0		22.13		24.0	0.0	
100	F300 BPSK	135	136		21.96		24.0	0.0	
100	F300 BPSK	270	0		22.26				
100	QPSK	1	1		22.81				
100	QPSK	1	137		22.48		24.0	0.0	
100	QPSK	1	271		22.68				
100	QPSK	135	0		22.14		24.0	0.0	
100	QPSK	239	0		22.55		24.0	0.0	
100	QPSK	135	136		22.18		24.0	0.0	
100	QPSK	270	0		22.27		24.0	0.0	
100	HQAM	1	1		22.20		24.0	0.0	
100	DSHSS	1	1		21.73		22.5	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	102	22.11	22.16	22.25	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	22.15	22.11	22.26	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.11	22.17	22.26	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.17	22.11	22.25	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	22.19	22.16	22.18	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	25	22.17	22.18	22.19	24.0	0.0	



n5 Ant0 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166300	167300	167600	25.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	25.16	25.24	25.19			
20	PI2 BPSK	1	53	25.11	25.22	25.17	25.0	0.5	
20	PI2 BPSK	1	104	25.07	25.01	24.96			
20	PI2 BPSK	50	0	24.71	24.64	24.62			
20	PI2 BPSK	50	28	25.23	25.14	25.07	25.5	0.0	
20	PI2 BPSK	50	56	24.62	24.57	24.47			
20	PI2 BPSK	100	0	24.09	24.06	24.04			
20	QPSK	1	1	25.19	25.26	25.18	25.5	0.0	
20	QPSK	1	53	25.23	25.20	25.12			
20	QPSK	1	104	24.90	24.94	24.98			
20	QPSK	50	0	24.21	24.19	24.13	24.5	1.0	
20	QPSK	50	28	25.21	25.20	25.18			
20	QPSK	50	56	24.16	24.18	24.13			
20	QPSK	100	0	24.10	24.16	24.08	24.5	1.0	
20	16QAM	1	1	24.13	24.17	24.09			
20	64QAM	1	1	22.81	22.90	22.95		23.0	
20	256QAM	1	1	20.55	20.56	20.48			
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	25.5	0.0	
15	QPSK	1	1	25.14	25.17	25.17			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	25.5	0.0	
10	QPSK	1	1	25.06	25.23	25.01			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				809.5	836.5	846.5	25.5	0.0	
5	QPSK	1	1	25.04	25.23	25.14			

n7 Ant0 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	513000	19.5	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	18.55	18.57	18.37			
20	PI2 BPSK	1	53	18.43	18.41	18.25	19.5	0.0	
20	PI2 BPSK	1	104	18.44	18.50	18.43			
20	PI2 BPSK	50	0	18.42	18.60	18.43			
20	PI2 BPSK	50	28	18.60	18.58	18.50	19.5	0.0	
20	PI2 BPSK	50	56	18.34	18.45	18.38			
20	PI2 BPSK	100	0	18.49	18.49	18.42			
20	QPSK	1	1	18.56	18.66	18.56	19.5	0.0	
20	QPSK	1	53	18.48	18.41	18.43			
20	QPSK	1	104	18.36	18.42	18.34			
20	QPSK	50	0	18.37	18.38	18.40	19.5	0.0	
20	QPSK	50	28	18.19	18.48	18.23			
20	QPSK	50	56	18.30	18.40	18.46			
20	QPSK	100	0	18.44	18.51	18.40	19.5	0.0	
20	16QAM	1	1	18.48	18.50	18.48			
20	64QAM	1	1	18.49	18.53	18.50		19.5	
20	256QAM	1	1	18.52	18.57	18.51			
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	19.5	0.0	
15	QPSK	1	1	18.30	18.37	18.37			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	19.5	0.0	
10	QPSK	1	1	18.31	18.42	18.30			
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	19.5	0.0	
5	QPSK	1	1	18.42	18.44	18.44			

n66 Ant0 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346900	349000	350000	21.5	0.0	
Frequency (MHz)				1739	1745	1760			
40	PI2 BPSK	1	1	20.22	20.26	20.20			
40	PI2 BPSK	1	108	20.11	20.07	19.97	21.5	0.0	
40	PI2 BPSK	1	214	20.19	20.27	20.18			
40	PI2 BPSK	108	0	20.21	20.37	20.08			
40	PI2 BPSK	108	54	20.27	20.21	20.16	21.5	0.0	
40	PI2 BPSK	108	108	20.07	20.14	20.22			
40	PI2 BPSK	216	0	20.24	20.16	20.22			
40	QPSK	1	1	20.32	20.38	20.29	21.5	0.0	
40	QPSK	1	108	20.18	20.23	20.25			
40	QPSK	1	214	20.14	20.12	20.09			
40	QPSK	108	0	20.08	20.21	20.21	21.5	0.0	
40	QPSK	108	54	20.00	20.25	20.03			
40	QPSK	108	108	20.12	20.14	20.24			
40	QPSK	216	0	20.26	20.27	20.17	21.5	0.0	
40	16QAM	1	1	20.29	20.30	20.22			
40	64QAM	1	1	20.18	20.33	20.21		21.5	
40	256QAM	1	1	18.75	19.85	20.17			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1729	1745	1770	21.5	0.0	
20	QPSK	1	1	20.18	20.13	20.06			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	21.5	0.0	
15	QPSK	1	1	20.06	20.11	19.99			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1714	1745	1775	21.5	0.0	
10	QPSK	1	1	20.20	20.16	20.19			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	21.5	0.0	
5	QPSK	1	1	20.03	20.21	20.18			

n38 Ant0 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	19.5	0.0
Frequency (MHz)				2590.02	2595	2599.99		
40	PI/2 BPSK	1	1	18.45	18.46	18.32		
40	PI/2 BPSK	1	53	18.41	18.50	18.55		
40	PI/2 BPSK	1	104	18.41	18.35	18.36	19.5	0.0
40	PI/2 BPSK	50	0	18.41	18.54	18.57		
40	PI/2 BPSK	50	28	18.40	18.51	18.37		
40	PI/2 BPSK	50	56	18.34	18.60	18.39		
40	PI/2 BPSK	100	0	18.36	18.49	18.45	19.5	0.0
40	QPSK	1	1	18.35	18.66	18.59		
40	QPSK	1	53	18.19	18.35	18.43		
40	QPSK	1	104	18.46	18.49	18.39		
40	QPSK	50	0	18.59	18.64	18.38	19.5	0.0
40	QPSK	50	28	18.26	18.27	18.39	19.5	0.0
40	QPSK	50	56	18.53	18.52	18.59	19.5	0.0
40	QPSK	100	0	18.48	18.57	18.56		
40	16QAM	1	1	18.28	18.45	18.41	19.5	0.0
40	64QAM	1	1	18.46	18.42	18.45	19.5	0.0
40	256QAM	1	1	18.38	18.52	18.45	19.5	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	19.5	0.0
30	QPSK	1	1	18.15	18.60	18.51	19.5	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	19.5	0.0
20	QPSK	1	1	18.23	18.47	18.56	19.5	0.0

n41 PC2&3 Ant0 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	19.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	18.55	18.57	18.56		
100	PI/2 BPSK	1	137	18.62	18.56	18.62		
100	PI/2 BPSK	1	271	18.63	18.62	18.59	19.5	0.0
100	PI/2 BPSK	135	0	18.52	18.58	18.54		
100	PI/2 BPSK	135	69	18.60	18.55	18.44		
100	PI/2 BPSK	135	138	18.40	18.37	18.38		
100	PI/2 BPSK	270	0	18.48	18.39	18.47	19.5	0.0
100	QPSK	1	1	18.63	18.69	18.53		
100	QPSK	1	137	18.06	18.10	18.14		
100	QPSK	1	271	18.58	18.55	18.61		
100	QPSK	135	0	18.47	18.48	18.44	19.5	0.0
100	QPSK	135	69	18.42	18.53	18.49	19.5	0.0
100	QPSK	135	138	18.45	18.44	18.35	19.5	0.0
100	QPSK	270	0	18.40	18.45	18.40		
100	16QAM	1	1	18.33	18.32	18.32	19.5	0.0
100	64QAM	1	1	18.53	18.53	18.48	19.5	0.0
100	256QAM	1	1	18.47	18.42	18.43	19.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	19.5	0.0
80	QPSK	1	1	18.48	18.64	18.36	19.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	19.5	0.0
60	QPSK	1	1	18.44	18.65	18.48	19.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	19.5	0.0
40	QPSK	1	1	18.62	18.52	18.54	19.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	19.5	0.0
30	QPSK	1	1	18.49	18.54	18.50	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	19.5	0.0
20	QPSK	1	1	18.59	18.55	18.52	19.5	0.0



n5 Ant4 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166300	167300	167600	25.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.95	24.94	24.86			
20	PI2 BPSK	1	53	24.86	24.91	24.82	25.0	0.5	
20	PI2 BPSK	1	104	24.70	24.75	24.66			
20	PI2 BPSK	50	0	24.40	24.45	24.48			
20	PI2 BPSK	50	28	24.89	24.85	24.85	25.5	0.0	
20	PI2 BPSK	50	56	24.46	24.38	24.36			
20	PI2 BPSK	100	0	24.39	24.35	24.44			
20	QPSK	1	1	23.76	23.87	23.89	25.5	0.0	
20	QPSK	1	53	24.94	24.85	24.90			
20	QPSK	1	104	24.26	24.24	24.13			
20	QPSK	50	0	23.87	23.90	23.84	24.5	1.0	
20	QPSK	50	28	24.70	23.87	24.81			
20	QPSK	50	56	23.87	23.89	23.79			
20	QPSK	100	0	23.78	23.89	23.89	24.5	1.0	
20	16QAM	1	1	23.97	23.87	23.86			
20	64QAM	1	1	22.23	22.14	22.13		23.0	
20	256QAM	1	1	19.92	19.99	20.02			
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	25.5	0.0	
15	QPSK	1	1	24.61	24.81	24.72			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	25.5	0.0	
10	QPSK	1	1	24.68	24.85	24.87			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				801.5	836.5	846.5	25.5	0.0	
5	QPSK	1	1	24.71	24.90	24.80			

n7 Ant4 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000	21.0	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	19.62	19.63	19.56			
20	PI2 BPSK	1	53	19.59	19.63	19.62	21.0	0.0	
20	PI2 BPSK	1	104	19.52	19.62	19.51			
20	PI2 BPSK	50	0	19.14	19.16	19.13			
20	PI2 BPSK	50	28	19.63	19.52	19.62	21.0	0.0	
20	PI2 BPSK	50	56	19.67	19.08	18.95			
20	PI2 BPSK	100	0	19.06	19.07	19.16			
20	QPSK	1	1	19.50	19.68	19.63	21.0	0.0	
20	QPSK	1	53	19.57	19.62	19.48			
20	QPSK	1	104	19.59	19.60	19.45			
20	QPSK	50	0	19.44	19.49	19.46	21.0	0.0	
20	QPSK	50	28	19.47	19.50	19.41			
20	QPSK	50	56	19.48	19.49	19.47			
20	QPSK	100	0	19.47	19.48	19.45	21.0	0.0	
20	16QAM	1	1	19.58	19.57	19.44			
20	64QAM	1	1	19.46	19.55	19.52		21.0	
20	256QAM	1	1	18.52	18.48	18.41			
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	21.0	0.0	
15	QPSK	1	1	19.54	19.60	19.57			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	21.0	0.0	
10	QPSK	1	1	19.52	19.45	19.48			
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	21.0	0.0	
5	QPSK	1	1	19.55	19.66	19.50			

n66 Ant4 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346900	349000	350000	23.5	0.0	
Frequency (MHz)				1739	1745	1760			
40	PI2 BPSK	1	1	22.22	22.28	22.25			
40	PI2 BPSK	1	108	22.18	22.29	22.33	23.5	0.0	
40	PI2 BPSK	1	214	22.29	22.16	22.11			
40	PI2 BPSK	108	0	22.28	22.27	22.10			
40	PI2 BPSK	108	54	22.17	22.25	22.22	23.5	0.0	
40	PI2 BPSK	108	108	22.16	22.17	22.06			
40	PI2 BPSK	216	0	22.12	22.18	22.14			
40	QPSK	1	1	22.31	22.41	22.27	23.5	0.0	
40	QPSK	1	108	22.28	22.29	22.25			
40	QPSK	1	214	22.25	22.29	22.35			
40	QPSK	108	0	22.31	22.21	22.13	23.5	0.0	
40	QPSK	108	54	22.24	22.27	22.20			
40	QPSK	108	108	22.40	22.31	22.22			
40	QPSK	216	0	22.15	22.25	22.18	23.5	0.0	
40	16QAM	1	1	22.16	22.23	22.29			
40	64QAM	1	1	20.70	20.67	20.76		22.0	
40	256QAM	1	1	18.83	18.78	18.75			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	23.5	0.0	
20	QPSK	1	1	22.16	22.35	22.13			
Channel				345500	349000	351500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	23.5	0.0	
15	QPSK	1	1	22.35	22.39	22.38			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1714	1745	1775	23.5	0.0	
10	QPSK	1	1	22.36	22.38	22.33			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	23.5	0.0	
5	QPSK	1	1	22.37	22.35	22.33			

n38 Ant4 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996	21.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.16	19.20	19.15	21.0	0.0	
40	PI/2 BPSK	1	53	19.30	19.35	19.16			
40	PI/2 BPSK	1	104	19.14	19.13	19.15	21.0	0.0	
40	PI/2 BPSK	50	0	19.07	19.17	19.04			
40	PI/2 BPSK	50	28	19.18	19.33	19.06	21.0	0.0	
40	PI/2 BPSK	50	56	19.02	19.20	18.96			
40	PI/2 BPSK	100	0	19.10	18.84	18.95	21.0	0.0	
40	QPSK	1	1	19.30	19.40	19.08			
40	QPSK	1	53	19.31	19.20	18.96	21.0	0.0	
40	QPSK	1	104	19.12	19.14	19.13			
40	QPSK	50	0	19.00	19.04	19.13	21.0	0.0	
40	QPSK	50	28	19.09	19.22	19.13			
40	QPSK	50	56	19.00	18.87	19.21	21.0	0.0	
40	QPSK	100	0	18.90	19.32	19.26			
40	16QAM	1	1	19.20	19.21	18.99	21.0	0.0	
40	64QAM	1	1	19.21	19.27	19.25			
40	256QAM	1	1	19.29	19.21	19.26	21.0	0.0	
Channel				517002	519000	520998		MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.18	19.37	19.01	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610	21.0	0.0	
20	QPSK	1	1	19.31	19.38	18.89			

n41 PC2&3 Ant4 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000	21.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.26	19.36	19.42	21.0	0.0	
100	PI/2 BPSK	1	137	19.38	19.43	19.36			
100	PI/2 BPSK	1	271	19.31	19.42	19.41	21.0	0.0	
100	PI/2 BPSK	135	0	19.41	19.38	19.41			
100	PI/2 BPSK	135	69	19.44	19.39	19.26	21.0	0.0	
100	PI/2 BPSK	135	138	19.06	19.16	19.21			
100	PI/2 BPSK	270	0	19.23	19.44	19.29	21.0	0.0	
100	QPSK	1	1	19.32	19.48	19.36			
100	QPSK	1	137	18.77	18.50	18.68	21.0	0.0	
100	QPSK	1	271	19.33	19.25	19.31			
100	QPSK	135	0	19.22	19.25	19.08	21.0	0.0	
100	QPSK	135	69	19.20	19.30	19.07			
100	QPSK	135	138	19.08	19.08	19.08	21.0	0.0	
100	QPSK	270	0	19.21	19.42	19.39			
100	16QAM	1	1	18.27	18.39	18.43	21.0	0.0	
100	64QAM	1	1	19.05	18.94	19.08			
100	256QAM	1	1	19.24	19.19	19.28	21.0	0.0	
Channel				507204	518598	529998		MPR	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.34	19.25	19.24	21.0	0.0	
Channel				505200	518598	531996		MPR	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.35	19.36	19.14	21.0	0.0	
Channel				503202	518598	534000		MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.31	19.25	18.96	21.0	0.0	
Channel				502200	518598	534996		MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.34	19.43	19.22	21.0	0.0	
Channel				501204	518598	535998		MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.30	19.14	19.21	21.0	0.0	



PC2&3 Part270 n77 Ant3 DS4i									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	17.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	16.37	16.33	16.24			
100	PI2 BPSK	1	137	16.35	16.38	16.38			
100	PI2 BPSK	1	271	16.32	16.43	16.50	17.0	0.0	
100	PI2 BPSK	135	0	16.44	16.39	16.53	17.0	0.0	
100	PI2 BPSK	135	69	16.42	16.37	16.50	17.0	0.0	
100	PI2 BPSK	135	138	16.56	16.33	16.31	17.0	0.0	
100	PI2 BPSK	270	0	16.19	16.29	16.24	17.0	0.0	
100	QPSK	1	1	16.55	16.72	16.51	17.0	0.0	
100	QPSK	1	137	16.25	16.44	16.49	17.0	0.0	
100	QPSK	1	271	16.29	16.31	16.31	17.0	0.0	
100	QPSK	135	0	15.43	15.43	15.31	17.0	0.0	
100	QPSK	135	69	16.41	16.60	16.46	17.0	0.0	
100	QPSK	135	138	16.22	16.34	16.31	17.0	0.0	
100	QPSK	270	0	16.22	16.46	16.09	17.0	0.0	
100	16QAM	1	1	15.91	15.98	16.25	17.0	0.0	
100	64QAM	1	1	16.44	16.36	16.43	17.0	0.0	
100	256QAM	1	1	16.40	16.25	16.34	17.0	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	16.24	16.42	15.99	17.0	0.0	
Channel				647334	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	16.40	16.41	16.27	17.0	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3956.02	(dBm)	(dB)	
50	QPSK	1	1	16.35	16.26	15.96	17.0	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	16.27	16.17	16.01	17.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	16.14	16.29	15.93	17.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	16.23	16.25	16.03	17.0	0.0	

PC2&3 Part27Q n77 Ant3 DS4i									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				633334			17.0	0.0	
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	16.46					
100	PI2 BPSK	1	137	16.34					
100	PI2 BPSK	1	271	16.39			17.0	0.0	
100	PI2 BPSK	135	0	16.47					
100	PI2 BPSK	135	69	16.56					
100	PI2 BPSK	135	138	16.51					
100	PI2 BPSK	270	0	16.33			17.0	0.0	
100	QPSK	1	1	16.58					
100	QPSK	1	137	16.47					
100	QPSK	1	271	16.34					
100	QPSK	135	0	16.46			17.0	0.0	
100	QPSK	135	69	16.48					
100	QPSK	135	138	16.34					
100	QPSK	270	0	16.41					
100	16QAM	1	1	16.33			17.0	0.0	
100	64QAM	1	1	16.33					
100	256QAM	1	1	16.42					
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510	(dbm)	(db)	
80	QPSK	1	109	16.29	16.30	16.31	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02	(dbm)	(db)	
60	QPSK	1	81	16.42	16.25	16.34	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.02	3500.01	3520	(dbm)	(db)	
50	QPSK	1	67	16.34	16.31	16.24	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01	(dbm)	(db)	
40	QPSK	1	53	16.30	16.19	16.32	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3500.01	3535.02	(dbm)	(db)	
30	QPSK	1	39	16.30	16.18	16.28	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540	(dbm)	(db)	
20	QPSK	1	26	16.36	16.29	16.30	17.0	0.0	

Part270 n78 PC2&3 Ant3 DS4i									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	17.0	0.0	
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		16.62				
100	PI2 BPSK	1	137		16.61				
100	PI2 BPSK	1	271		16.61		17.0	0.0	
100	PI2 BPSK	135	0		16.63		17.0	0.0	
100	PI2 BPSK	135	69		16.59		17.0	0.0	
100	PI2 BPSK	135	138		16.66		17.0	0.0	
100	PI2 BPSK	270	0		16.63		17.0	0.0	
100	QPSK	1	1		16.68		17.0	0.0	
100	QPSK	1	137		16.62		17.0	0.0	
100	QPSK	1	271		16.52		17.0	0.0	
100	QPSK	135	0		16.42		17.0	0.0	
100	QPSK	135	69		16.51		17.0	0.0	
100	QPSK	135	138		16.41		17.0	0.0	
100	QPSK	270	0		16.61		17.0	0.0	
100	16QAM	1	1		16.46		17.0	0.0	
100	64QAM	1	1		16.55		17.0	0.0	
100	256QAM	1	1		16.53		17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	16.56	16.69	16.72	17.0	0.0	
Channel				647998	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	16.48	16.60	16.74	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	16.51	16.66	16.80	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	16.52	16.68	16.73	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	16.53	16.70	16.63	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	16.54	16.57	16.74	17.0	0.0	

PC2&3 Part27Q n78 Ant3 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334			17.0	0.0	
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		16.34		17.0	0.0	
100	PI2 BPSK	1	137		16.40				
100	PI2 BPSK	1	271		16.37		17.0	0.0	
100	PI2 BPSK	135	0		16.37				
100	PI2 BPSK	135	69		16.36		17.0	0.0	
100	PI2 BPSK	135	138		16.34				
100	PI2 BPSK	270	0		16.41		17.0	0.0	
100	QPSK	1	1		16.43				
100	QPSK	1	137		16.31		17.0	0.0	
100	QPSK	1	271		16.24				
100	QPSK	135	0		16.26		17.0	0.0	
100	QPSK	135	69		16.36				
100	QPSK	135	138		16.31		17.0	0.0	
100	QPSK	270	0		16.43				
100	16QAM	1	1		16.27		17.0	0.0	
100	64QAM	1	1		16.36				
100	256QAM	1	1		16.29		17.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	16.29	16.32	16.25	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	16.24	16.33	16.24	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3415.02	3500.01	3585	(dBm)	(dB)	
50	QPSK	1	67	16.23	16.26	16.20	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	16.29	16.23	16.27	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	39	16.29	16.31	16.21	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	16.24	16.30	16.23	17.0	0.0	



PC2&3 Part270 n77 Ant5 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	660000	660000	17.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.87	15.64	15.60			
100	PI2 BPSK	1	137	15.82	15.74	15.85			
100	PI2 BPSK	1	271	15.61	15.71	15.81	17.0	0.0	
100	PI2 BPSK	135	0	15.58	15.57	15.53	17.0	0.0	
100	PI2 BPSK	135	69	15.69	15.73	15.40	17.0	0.0	
100	PI2 BPSK	135	138	15.68	15.69	15.68	17.0	0.0	
100	PI2 BPSK	270	0	15.56	15.67	15.78	17.0	0.0	
100	QPSK	1	1	15.76	15.88	15.87			
100	QPSK	1	137	15.76	15.89	15.82			
100	QPSK	1	271	15.71	15.87	15.59			
100	QPSK	135	0	15.47	15.52	15.41	17.0	0.0	
100	QPSK	135	69	15.69	15.76	15.68	17.0	0.0	
100	QPSK	135	138	15.73	15.88	15.84	17.0	0.0	
100	QPSK	270	0	15.47	15.57	15.56	17.0	0.0	
100	16QAM	1	1	15.61	15.56	15.48			
100	64QAM	1	1	15.85	15.74	15.77			
100	256QAM	1	1	15.78	15.65	15.70			
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	15.66	15.56	15.69	17.0	0.0	
Channel				649593	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	15.59	15.60	15.61	17.0	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3965.02	(dBm)	(dB)	
50	QPSK	1	1	15.61	15.76	15.57	17.0	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	15.54	15.75	15.72	17.0	0.0	
Channel				647668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	15.68	15.77	15.40	17.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	15.58	15.76	15.74	17.0	0.0	

PC2&3 Part27Q n77 Ant5 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334		3500.01	17.0	0.0	
Frequency (MHz)				15.12					
100	PI2 BPSK	1	1	15.26					
100	PI2 BPSK	1	137	15.25					
100	PI2 BPSK	1	271	15.25			17.0	0.0	
100	PI2 BPSK	135	0	15.24			17.0	0.0	
100	PI2 BPSK	135	69	15.16			17.0	0.0	
100	PI2 BPSK	135	138	15.17			17.0	0.0	
100	PI2 BPSK	270	0	15.29			17.0	0.0	
100	QPSK	1	1	15.38					
100	QPSK	1	137	15.24					
100	QPSK	1	271	15.27					
100	QPSK	135	0	15.30			17.0	0.0	
100	QPSK	135	69	15.35			17.0	0.0	
100	QPSK	135	138	15.23			17.0	0.0	
100	QPSK	270	0	15.31			17.0	0.0	
100	16QAM	1	1	15.26					
100	64QAM	1	1	15.23					
100	256QAM	1	1	15.14					
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	15.19	15.20	15.22	17.0	0.0	
Channel				632003	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	15.04	15.14	15.11	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.02	3500.01	3520	(dBm)	(dB)	
50	QPSK	1	67	15.07	15.16	15.22	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	15.04	15.10	15.16	17.0	0.0	
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	39	15.07	15.11	15.18	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	15.11	15.13	15.17	17.0	0.0	

PC2&3 Part270 n78 Ant5 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000		3750	17.0	0.0	
Frequency (MHz)				15.64					
100	PI2 BPSK	1	1	15.70					
100	PI2 BPSK	1	271	15.74					
100	PI2 BPSK	135	0	15.67			17.0	0.0	
100	PI2 BPSK	135	69	15.63			17.0	0.0	
100	PI2 BPSK	135	138	15.60			17.0	0.0	
100	PI2 BPSK	270	0	15.86			17.0	0.0	
100	QPSK	1	1	15.91					
100	QPSK	1	137	15.81					
100	QPSK	1	271	15.89					
100	QPSK	135	0	15.81			16.0	1.0	
100	QPSK	135	69	15.83			17.0	0.0	
100	QPSK	135	138	15.74			16.0	1.0	
100	QPSK	270	0	15.76			17.0	0.0	
100	16QAM	1	1	15.79					
100	64QAM	1	1	15.97					
100	256QAM	1	1	15.83					
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	15.57	15.71	15.39	17.0	0.0	
Channel				649593	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	15.59	15.72	15.43	17.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	15.56	15.74	15.43	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	15.56	15.69	15.39	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	15.56	15.74	15.39	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3783.02	(dBm)	(dB)	
20	QPSK	1	1	15.54	15.75	15.39	17.0	0.0	

PC2&3 Part27Q n78 Ant5 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334			17.0	0.0	
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		15.09		17.0	0.0	
100	PI/2 BPSK	1	137		15.19				
100	PI/2 BPSK	1	271		15.14				
100	PI/2 BPSK	135	0		15.12				
100	PI/2 BPSK	135	69		15.07				
100	PI/2 BPSK	135	138		15.09				
100	PI/2 BPSK	270	0		15.14		17.0	0.0	
100	QPSK	1	1		15.25				
100	QPSK	1	137		15.21				
100	QPSK	1	271		15.23				
100	QPSK	135	0		15.16				
100	QPSK	135	69		15.19				
100	QPSK	135	138		15.14		17.0	0.0	
100	QPSK	270	0		15.21				
100	16QAM	1	1		15.12				
100	64QAM	1	1		15.08				
100	256QAM	1	1		15.08				
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	15.01	15.23	15.09	17.0	0.0	
Channel				632200	633334	634468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	15.08	15.19	15.16	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3415.02	3500.01	3425			
50	QPSK	1	67	15.05	15.14	15.19	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	15.02	15.22	15.20	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	15.04	15.14	15.09	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	15.03	15.24	15.08	17.0	0.0	

WLAN/Bluetooth Power

2.4GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.28	18.30	12.42	14.00
		4	2437	19.09	20.50	12.79	14.00
		11	2462	18.69	20.50	12.68	99.30
	802.11g 6Mbps	1	2412	17.23	19.00		14.00
		6	2437	17.63	19.00		14.00
		11	2462	18.73	19.00		14.00
	802.11n-HT20 MCS0	1	2412	17.19	18.00		14.00
		6	2437	17.40	18.00		14.00
		11	2462	17.66	18.00		14.00
	802.11n-HT40 MCS0	3	2422	12.02	14.00		14.00
		6	2437	15.36	16.00		14.00
		9	2452	14.45	16.00		14.00

5.2GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.64	18.50	12.50	97.60
		40	5200	17.64	18.50	12.50	
		44	5220	17.72	18.50	12.50	
		48	5240	18.11	18.50	12.50	
	802.11n-HT20 MCS0	36	5180	16.53	18.00	12.50	97.20
		40	5200	16.47	18.00	12.50	
		44	5220	16.60	18.00	12.50	
		48	5240	16.79	18.00	12.50	
	802.11n-HT40 MCS0	36	5180	15.73	17.00	12.50	94.90
		46	5230	15.93	17.00	12.50	
		36	5180	16.93	18.00	12.50	
		40	5200	16.93	18.00	12.50	
	802.11ac-VHT20 MCS0	44	5220	17.05	18.00	12.50	97.40
		48	5240	17.17	18.00	12.50	
		38	5190	16.73	17.00	12.50	
		46	5230	16.88	17.00	12.50	
	802.11ac-VHT40 MCS0	40	5200	15.88	17.00	12.50	95.10
		42	5210	14.77	16.00	11.38	
	802.11ac-VHT80 MCS0	42	5210	14.77	16.00	11.38	90.10

5.3GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	18.06	18.50	12.50	97.60
		56	5280	18.14	18.50	12.50	
		60	5300	18.16	18.50	12.50	
		64	5320	18.21	18.50	12.50	
	802.11n-HT20 MCS0	52	5260	16.94	18.00	12.50	97.20
		56	5280	16.98	18.00	12.50	
		60	5300	17.17	18.00	12.50	
		64	5320	17.20	18.00	12.50	
	802.11n-HT40 MCS0	54	5270	16.16	17.50	12.50	94.90
		62	5310	16.43	17.50	12.50	
		52	5260	16.93	18.00	12.50	
		56	5280	17.05	18.00	12.50	
	802.11ac-VHT20 MCS0	60	5300	17.17	18.00	12.50	97.40
		64	5320	17.15	18.00	12.50	
		54	5270	16.24	17.50	12.50	
		62	5310	16.43	17.50	12.50	
	802.11ac-VHT40 MCS0	58	5290	14.71	16.00	11.35	90.10
		58	5290	14.71	16.00	11.35	

5.5GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.79	18.50	12.00	97.60
		116	5580	18.07	18.50	12.00	
		124	5620	18.15	18.50	12.00	
		132	5660	17.99	18.50	12.00	
		140	5700	17.84	18.50	12.00	
		144	5720	15.01	17.00	12.00	
	802.11n-HT20 MCS0	100	5500	16.70	18.00	12.00	97.20
		116	5580	17.03	18.00	12.00	
		124	5620	17.08	18.00	12.00	
		132	5660	16.97	18.00	12.00	
		140	5700	16.74	18.00	12.00	
		144	5720	13.81	15.50	12.00	
	802.11n-HT40 MCS0	102	5510	15.94	17.00	12.00	94.90
		110	5550	16.13	17.00	12.00	
		126	5630	16.35	17.00	12.00	
		134	5670	16.14	17.00	12.00	
		142	5710	13.79	15.50	12.00	
		100	5500	16.62	17.00	12.00	
	802.11ac-VHT20 MCS0	116	5580	16.94	17.00	12.00	97.40
		124	5620	17.16	18.00	12.00	
		132	5660	17.11	18.00	12.00	
		140	5700	16.75	17.00	12.00	
		144	5720	13.80	15.50	12.00	
		102	5510	15.96	17.00	12.00	
	802.11ac-VHT40 MCS0	110	5550	16.09	17.00	12.00	95.10
		126	5630	16.34	17.00	12.00	
		134	5670	16.08	17.00	12.00	
		142	5710	13.81	15.50	12.00	
		106	5530	14.74	16.00	10.78	
		122	5610	15.02	15.50	11.08	
	802.11ac-VHT80 MCS0	138	5690	13.13	15.00	10.98	90.10

5.8GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	18.51	18.50	11.50	97.60
		157	5785	16.40	18.00	11.50	
		165	5825	16.33	18.00	11.50	
	802.11n-HT20 MCS0	149	5745	15.47	17.00	11.50	97.20
		157	5785	15.31	17.00	11.50	
		165	5825	15.41	17.00	11.50	
	802.11n-HT40 MCS0	151	5755	14.54	16.50	11.50	94.90
		159	5795	14.40	16.00	11.50	
		149	5745	15.41	17.00	11.50	
	802.11ac-VHT20 MCS0	157	5785	15.32	17.00	11.50	97.40
		165	5825	15.41	17.00	11.50	
		151	5755	14.58	16.50	11.50	
	802.11ac-VHT40 MCS0	159	5795	14.43	16.00	11.50	95.10
		155	5775	13.43	15.00	10.35	

BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
BR / EDR	CH 00	2402	9.54	8.98	9.72
	CH 39	2441	9.61	9.12	9.74
	CH 78	2480	9.52	8.96	9.33
	Tune-up Limit		11	11	11

BT LE v4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402	GFSK		
	CH 19	2440	5.74		
	CH 39	2480	5.88		
	Tune-up Limit		5.68		
Tune-up Limit			7.00		

BT LE v5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	5.90
	CH 19	2440	5.61
	CH 39	2480	5.42
	Tune-up Limit		7.00