

Band	WCDMA II Modem A Ant0				Tune-up Limit (dBm)	WCDMA IV Modem A Ant0				Tune-up Limit (dBm)	WCDMA V Modem A Ant0				Tune-up Limit (dBm)
	WCDMA II					WCDMA IV					WCDMA V				
	Rx Channel	9262	9460	9538		1312	1413	1513	4132		4182	4233			
Rx Channel	9662	9800	9938		1537	1638	1738		4307	4407	4458				
Frequency (MHz)	1852.4	1860	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6				
3GPP Rel 99	RMC 12.7Kbps	22.82	22.86	22.79	24.50	18.92	18.94	18.88	20.50	23.14	23.22	23.21	24.50		
3GPP Rel 6	HSDPA Subtest-1	21.85	21.76	21.84	23.50	17.99	17.90	17.81	19.50	22.21	22.19	22.38	23.50		
3GPP Rel 6	HSDPA Subtest-2	21.87	21.81	21.69	23.50	17.98	17.89	17.89	19.50	22.19	22.27	22.26	23.50		
3GPP Rel 6	HSDPA Subtest-3	21.25	21.28	21.19	23.00	17.39	17.37	17.45	19.00	21.69	21.80	21.85	23.00		
3GPP Rel 6	HSDPA Subtest-4	21.32	21.42	21.30	23.00	17.45	17.43	17.32	19.00	21.70	21.71	21.79	23.00		
3GPP Rel 6	DC-HSDPA Subtest-1	21.71	21.90	21.70	23.50	17.94	17.91	17.94	19.50	22.15	22.28	22.31	23.50		
3GPP Rel 6	DC-HSDPA Subtest-2	21.90	21.74	21.67	23.50	17.98	17.93	17.87	19.50	22.19	22.19	22.33	23.50		
3GPP Rel 6	DC-HSDPA Subtest-3	21.43	21.37	21.19	23.00	17.41	17.50	17.45	19.00	21.67	21.73	21.83	23.00		
3GPP Rel 6	DC-HSDPA Subtest-4	21.25	21.29	21.21	23.00	17.48	17.41	17.36	19.00	21.69	21.64	21.76	23.00		
3GPP Rel 6	HSPA Subtest-1	21.82	21.79	21.81	23.50	17.93	17.88	17.81	19.50	22.07	22.19	22.32	23.50		
3GPP Rel 6	HSPA Subtest-2	19.76	19.83	19.85	21.50	15.91	15.96	15.93	17.50	20.07	20.15	20.39	21.50		
3GPP Rel 6	HSPA Subtest-3	20.87	20.87	20.76	22.50	16.88	16.96	16.90	18.50	21.21	21.21	21.27	22.50		
3GPP Rel 6	HSPA Subtest-4	19.85	19.93	19.73	21.50	15.84	16.00	15.90	17.50	20.14	20.27	20.32	21.50		
3GPP Rel 6	HSPA Subtest-5	21.90	21.95	21.77	23.50	17.94	17.89	17.87	19.50	22.14	22.19	22.28	23.50		
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.36	19.36	19.30	21.00	15.50	15.40	15.38	17.00	19.67	19.84	19.75	21.00		

		WCDMA II Modem B AntD				WCDMA IV Modem B AntD				WCDMA V Modem B AntD			
Band		WCDMA II			WCDMA IV			WCDMA V			WCDMA V		
TX Channel		9292	9600	9538	Tune-up Limit (dBm)			1312	1413	1513	Tune-up Limit (dBm)		
Rx Channel		9662	9600	9638	1537			1637	1638	1737	4357 4407 4458		
Frequency (MHz)		1552.4	1560	1567.6	1722.4 1722.6 1722.8			1762.4			4356 4364 4366		
3GPP Rel 99	RMC 12.2Kbps	22.79	22.88	22.78	24.50	18.94	18.99	18.05	19.50	22.21	22.30	22.34	24.50
3GPP Rel 6	HS-DS-SS Subtest-1	21.80	21.86	21.84	23.50	17.97	18.06	17.95	19.50	22.21	22.30	22.34	23.50
3GPP Rel 6	HS-DS-SS Subtest-2	21.81	21.91	21.84	23.50	18.00	18.17	17.93	19.50	22.25	22.31	22.22	23.50
3GPP Rel 6	HS-DS-SS Subtest-3	21.32	21.35	21.34	23.00	17.59	17.56	17.47	19.00	21.68	21.85	21.78	23.00
3GPP Rel 6	HS-DS-SS Subtest-4	21.29	21.31	21.34	23.00	17.42	17.62	17.41	19.00	21.61	21.75	21.81	23.00
3GPP Rel 8	DC-HS-SS Subtest-1	21.83	21.80	21.84	23.50	17.92	18.11	17.98	19.50	22.12	22.31	22.22	23.50
3GPP Rel 8	DC-HS-SS Subtest-2	21.72	21.90	21.82	23.50	17.89	18.17	17.92	19.50	22.16	22.38	22.24	23.50
3GPP Rel 8	DC-HS-SS Subtest-3	21.33	21.36	21.22	23.00	17.51	17.61	17.40	19.00	21.68	21.83	21.72	23.00
3GPP Rel 8	DC-HS-SS Subtest-4	21.23	21.40	21.24	23.00	17.48	17.60	17.45	19.00	21.70	21.88	21.88	23.00
3GPP Rel 6	HS-UPA Subtest-1	21.84	21.92	21.77	23.50	17.94	18.05	17.99	19.50	22.18	22.29	22.25	23.50
3GPP Rel 6	HS-UPA Subtest-2	19.81	19.82	19.79	21.50	15.97	16.16	16.04	17.50	20.18	20.28	20.30	21.50
3GPP Rel 6	HS-UPA Subtest-3	20.80	20.82	20.77	22.50	16.98	17.10	17.00	19.50	21.18	21.25	21.31	22.50
3GPP Rel 6	HS-UPA Subtest-4	19.74	19.92	19.78	21.50	15.98	16.05	15.93	17.50	20.24	20.32	20.26	21.50
3GPP Rel 6	HS-UPA Subtest-5	21.77	21.81	21.85	23.50	17.92	18.11	17.98	19.50	22.12	22.27	22.26	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.97	19.98	19.28	21.00	15.53	15.56	15.54	17.00	19.84	19.78	19.72	21.00

	WCDMA II Modem C Ant0				WCDMA IV Modem C Ant0				WCDMA V Modem C Ant0				
	Band		WCDMA II		WCDMA IV		WCDMA V		WCDMA V		WCDMA V		
	TX Channel	5202	9400	9538	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4132	4182	4233	Tune-up Limit (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1860	1867.6		1742.4	1752.4	1762.4		1864.4	1874.4	1884.4		
3GPP Rel 99	RMC 12.2Kbps	23.03	23.17	23.11	24.50	19.18	19.21	19.17	20.50	23.54	23.61	23.60	24.50
3GPP Rel 6	HS-DS-SS Subtest-1	22.25	22.12	22.08	23.50	18.15	18.24	18.10	19.50	22.52	22.69	22.72	23.50
3GPP Rel 6	HS-DS-SS Subtest-2	22.16	22.27	22.14	23.50	18.18	18.16	18.06	19.50	22.52	22.63	22.77	23.50
3GPP Rel 6	HS-DS-SS Subtest-3	21.71	21.61	21.69	23.00	17.75	17.75	17.78	19.00	22.67	22.19	22.27	23.00
3GPP Rel 6	HS-DS-SS Subtest-4	21.66	21.61	21.70	23.00	17.76	17.70	17.73	19.00	22.13	22.18	22.13	23.00
3GPP Rel 8	DC-HS-SSA Subtest-1	22.22	22.16	22.20	23.50	18.17	18.17	18.11	19.50	22.62	22.60	22.70	23.50
3GPP Rel 8	DC-HS-SSA Subtest-2	22.10	22.09	22.05	23.50	18.25	18.09	18.20	19.50	22.64	22.76	22.82	23.50
3GPP Rel 8	DC-HS-SSA Subtest-3	21.62	21.72	21.73	23.00	17.64	17.67	17.67	19.00	22.10	22.12	22.13	23.00
3GPP Rel 8	DC-HS-SSA Subtest-4	21.67	21.60	21.76	23.00	17.71	17.61	17.78	19.00	22.06	22.28	22.17	23.00
3GPP Rel 6	HS-UPA Subtest-1	22.11	22.24	22.28	23.50	18.14	18.32	18.09	19.50	22.57	22.76	22.70	23.50
3GPP Rel 6	HS-UPA Subtest-2	20.22	20.26	20.09	21.50	16.13	16.12	16.23	17.50	20.48	20.67	20.81	21.50
3GPP Rel 6	HS-UPA Subtest-3	21.29	21.25	21.18	22.50	17.35	17.36	17.14	18.50	21.51	21.63	21.68	22.50
3GPP Rel 6	HS-UPA Subtest-4	20.17	20.19	20.06	21.50	16.24	16.23	16.12	17.50	20.50	20.76	20.67	21.50
3GPP Rel 6	HS-UPA Subtest-5	22.19	22.18	22.25	23.50	18.22	18.16	18.20	19.50	22.43	22.80	22.89	23.50
3GPP Rel 7	HS-PA+ (16QAM) Subtest-1	19.75	19.85	19.79	21.00	15.61	15.65	15.72	17.00	20.13	20.30	20.15	21.00

	WCDMA II Modem D Ant0				WCDMA IV Modem D Ant0				WCDMA V Modem D Ant0				
	Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
Rx Channel	9662	9400	9538	1312		1413	1513	4132		4182	4233		
Frequency (MHz)	1852.4	1860	1867.6	1742.4	1752.4	1762.4	2644	2644	2644				
3GPP Rel 99	23.17	23.28	23.13	24.50	19.29	19.33	19.28	20.50	23.47	23.54	23.52	24.50	
3GPP Rel 6	HS-DS-SS Subtest-1	22.21	22.27	22.13	23.50	18.18	18.28	18.17	19.50	22.52	22.56	22.49	23.50
3GPP Rel 6	HS-DS-SS Subtest-2	22.19	22.23	22.18	23.50	18.13	18.30	18.15	19.50	22.51	22.51	22.55	23.50
3GPP Rel 6	HS-DS-SS Subtest-3	21.69	21.74	21.60	23.00	17.86	17.76	17.59	19.00	21.95	22.02	22.07	23.00
3GPP Rel 6	HS-DS-SS Subtest-4	21.69	21.73	21.63	23.00	17.63	17.78	17.60	19.00	21.94	22.00	21.98	23.00
3GPP Rel 8	DC-HS-SS Subtest-1	22.17	22.31	22.09	23.50	18.17	18.26	18.16	19.50	22.50	22.52	22.49	23.50
3GPP Rel 8	DC-HS-SS Subtest-2	22.20	22.33	22.18	23.50	18.16	18.25	18.10	19.50	22.45	22.50	22.53	23.50
3GPP Rel 8	DC-HS-SS Subtest-3	21.69	21.78	21.61	23.00	17.69	17.77	17.61	19.00	21.96	22.00	22.06	23.00
3GPP Rel 8	DC-HS-SS Subtest-4	21.71	21.79	21.67	23.00	17.63	17.82	17.62	19.00	21.94	22.01	21.99	23.00
3GPP Rel 6	HS-SS Subtest-1	22.14	22.28	22.11	23.50	18.14	18.30	18.14	19.50	22.47	22.57	22.49	23.50
3GPP Rel 6	HS-SS Subtest-2	20.70	20.83	20.60	21.50	16.69	16.78	16.65	17.50	20.48	20.56	20.53	21.50
3GPP Rel 6	HS-SS Subtest-3	21.18	21.26	21.08	22.50	17.19	17.30	17.17	18.50	21.42	21.56	21.48	22.50
3GPP Rel 6	HS-SS Subtest-4	20.64	20.79	20.65	21.50	16.70	16.78	16.63	17.50	20.49	20.53	20.55	21.50
3GPP Rel 6	HS-SS Subtest-5	22.14	22.30	22.16	23.50	18.20	18.26	18.16	19.50	22.48	22.58	22.53	23.50
3GPP Rel 7	HS-SS (180AM) Subtest-1	20.20	20.32	20.13	21.00	16.21	16.27	16.16	17.00	20.70	20.83	20.59	21.00

n2 Modem A Ant0									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1660	1680	1900			
Frequency (MHz)									
20	PI2 BPSK	1	1	21.56	21.56	21.52		23.5	0.0
20	PI2 BPSK	1	53	21.51	21.52	21.52			
20	PI2 BPSK	1	104	21.51	21.52	21.53			
20	PI2 BPSK	50	0	21.14	21.11	21.17	23.0	0.5	
20	PI2 BPSK	50	28	21.59	21.54	21.56	23.5	0.0	
20	PI2 BPSK	50	56	21.15	21.24	21.10	23.0	0.5	
20	PI2 BPSK	100	0	21.10	21.24	21.20			
20	QPSK	1	1	21.63	21.67	21.58			
20	QPSK	1	53	21.52	21.55	21.56	23.5	0.0	
20	QPSK	1	104	21.57	21.53	21.51			
20	QPSK	50	0	20.61	20.60	20.60	22.5	1.0	
20	QPSK	50	28	21.55	21.64	21.53	23.5	0.0	
20	QPSK	50	56	20.70	20.62	20.63			
20	QPSK	100	0	20.64	20.72	20.69	22.5	1.0	
20	16QAM	1	1	20.89	20.75	20.70	22.5	1.0	
20	16QAM	1	1	19.17	19.13	19.11	21.0	2.5	
20	256QAM	1	1	17.17	17.15	17.18	19.0	4.5	
Channel				371000	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	21.52	21.55	21.52	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	21.51	21.58	21.53	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1853.5	1880	1907.5			
5	QPSK	1	1	21.54	21.64	21.55	23.5	0.0	

n5 Modem A Ant0									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.46	22.62	22.63		24.5	0.0
20	PI2 BPSK	1	53	22.72	22.72	22.62			
20	PI2 BPSK	1	104	22.76	22.71	22.52			
20	PI2 BPSK	50	0	22.33	22.24	22.20	24.0	0.5	
20	PI2 BPSK	50	28	22.72	22.69	22.66	24.5	0.0	
20	PI2 BPSK	50	56	22.36	22.50	22.18	24.0	0.5	
20	PI2 BPSK	100	0	22.24	22.46	22.31			
20	QPSK	1	1	22.83	22.87	22.80			
20	QPSK	1	53	22.66	22.81	22.71	24.5	0.0	
20	QPSK	1	104	22.65	22.67	22.52			
20	QPSK	50	0	21.82	21.79	21.75	23.5	1.0	
20	QPSK	50	28	22.80	22.85	22.56	24.5	0.0	
20	QPSK	50	56	21.91	21.78	21.75	23.5	1.0	
20	QPSK	100	0	21.87	21.89	21.81			
20	16QAM	1	1	21.93	21.89	21.73	23.5	1.0	
20	16QAM	1	1	20.57	20.29	20.27	22.0	2.5	
20	256QAM	1	1	19.29	19.41	19.28	20.0	4.5	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.75	22.80	22.76	24.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.74	22.74	22.75	24.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.73	22.75	22.70	24.5	0.0	

n7 Modem A Ant0									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.89	18.94	18.86		20.5	0.0
40	PI2 BPSK	1	108	18.91	19.01	18.75			
40	PI2 BPSK	1	214	18.98	18.99	18.79			
40	PI2 BPSK	108	0	18.97	19.03	18.84	20.5	0.0	
40	PI2 BPSK	108	54	18.96	18.97	18.75	20.5	0.0	
40	PI2 BPSK	108	108	18.89	19.01	18.80	20.5	0.0	
40	PI2 BPSK	216	0	19.01	19.96	18.74			
40	QPSK	1	1	18.90	19.04	18.84			
40	QPSK	1	108	18.91	18.99	18.75	20.5	0.0	
40	QPSK	1	214	18.86	18.90	18.78			
40	QPSK	108	0	18.88	18.94	18.74	20.5	0.0	
40	QPSK	108	54	18.95	19.01	18.82	20.5	0.0	
40	QPSK	108	108	19.00	19.92	18.87			
40	QPSK	216	0	18.90	19.00	18.76	20.5	0.0	
40	16QAM	1	1	18.91	18.97	18.83	20.5	0.0	
40	16QAM	1	1	18.80	18.75	18.78	20.5	0.0	
40	256QAM	1	1	17.51	17.54	17.52	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.96	18.93	18.74	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.85	18.88	18.75	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	18.88	19.92	18.80	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	18.89	18.96	18.78	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.97	18.89	18.85	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.85	19.00	18.75	20.5	0.0	

n12 Modem A Ant0									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	22.58	22.77	22.54		24.5	0.0
15	PI2 BPSK	1	48	22.62	22.67	22.58			
15	PI2 BPSK	1	77	22.69	22.66	22.52			
15	PI2 BPSK	36	0	22.25	22.13	22.16	24.0	0.5	
15	PI2 BPSK	36	22	22.62	22.62	22.58	24.5	0.0	
15	PI2 BPSK	36	43	22.31	22.43	22.09	24.0	0.5	
15	PI2 BPSK	75	0	22.13	22.36	22.25			
15	QPSK	1	1	22.81	22.87	22.85			
15	QPSK	1	48	22.58	22.73	22.64	24.5	0.0	
15	QPSK	1	77	22.55	22.58	22.56			
15	QPSK	36	0	21.73	21.72	21.67	23.5	1.0	
15	QPSK	36	22	22.70	22.61	22.57	24.5	0.0	
15	QPSK	36	43	21.84	21.68	21.66			
15	QPSK	75	0	21.80	21.81	21.74	23.5	1.0	
15	16QAM	1	1	21.88	21.84	21.63	23.5	1.0	
15	16QAM	1	1	20.29	20.25	20.20	22.0	2.5	
15	256QAM	1	1	19.21	19.35	19.24	20.0	4.5	
Channel				140900	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.75	22.83	22.80	24.5	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.75	22.82	22.76	24.5	0.0	

n13 Modem A Ant0									
BW (MHz)	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				156400					
Frequency (MHz)				762					
10	PI2 BPSK	1	1		22.53		24.0	0.0	
10	PI2 BPSK	1	26		22.37				
10	PI2 BPSK	1	50		22.32				
10	PI2 BPSK	25	0		21.84		23.5	0.5	
10	PI2 BPSK	25	14		22.38		24.0	0.0	
10	PI2 BPSK	25	27		22.16		23.5	0.5	
10	PI2 BPSK	50	0		22.02				
10	QPSK	1	1		22.55		24.0	0.0	
10	QPSK	1	26		22.48				
10	QPSK	1	50		22.24				
10	QPSK	25	0		21.36		23.0	1.0	
10	QPSK	25	14		22.45		24.0	0.0	
10	QPSK	25	27		21.33				
10	QPSK	50	0		21.52		23.0	1.0	
10	16QAM	1	1		21.49		23.0	1.0	
10	16QAM	1	1		19.91		21.5	2.5	
10	256QAM	1	1		18.10		19.5	4.5	
Channel				155900	156400	156900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	762	784.5			
5	QPSK	1	1	22.50	22.53	22.51	24.0	0.0	

n14 Modem A 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				158600					
Frequency (MHz)				793					
10	PI2 BPSK	1	1		22.81		24.5	0.0	
10	PI2 BPSK	1	26		22.59				
10	PI2 BPSK	1	50		22.66				
10	PI2 BPSK	25	0		22.18		24.0	0.5	
10	PI2 BPSK	25	14		22.60		24.5	0.0	
10	PI2 BPSK	25	27		22.54		24.0	0.5	
10	PI2 BPSK	50	0		22.30				
10	QPSK	1	1		22.82		24.5	0.0	
10	QPSK	1	26		22.80				
10	QPSK	1	50		22.51				
10	QPSK	25	0		21.68		23.5	1.0	
10	QPSK	25	14		22.75		24.5	0.0	
10	QPSK	25	27		21.70				
10	QPSK	50	0		21.76		23.5	1.0	
10	16QAM	1	1		21.72		23.5	1.0	
10	16QAM	1	1		20.18		22.0	2.5	
10	256QAM	1	1		18.34		20.0	4.5	
Channel				159100	158600	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.73	22.81	22.80	24.5	0.0	

n25 Modem A Ant0									
BW (MHz)	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000		376500 379000			
Frequency (MHz)				1670		1682.5 1695			
40	PI2 BPSK	1	1	21.65	21.72	21.56	23.5	0.0	
40	PI2 BPSK	1	108	21.57	21.62	21.58			
40	PI2 BPSK	1	214	21.55	21.73	21.54			
40	PI2 BPSK	108	0	21.22	21.18	21.12	23.0	0.5	
40	PI2 BPSK	108	54	21.67	21.86	21.54	23.5	0.0	
40	PI2 BPSK	108	108	21.36	21.41	21.05	23.0	0.5	
40	PI2 BPSK	216	0	21.16	21.40	21.07			
40	QPSK	1	1	21.69	21.74	21.71	23.5	0.0	
40	QPSK	1	108	21.66	21.65	21.52			
40	QPSK	1	214	21.55	21.72	21.52			
40	QPSK	108	0	20.57	20.65	20.63	22.5	1.0	
40	QPSK	108	54	21.61	21.65	21.64	23.5	0.0	
40	QPSK	108	108	20.81	20.84	20.55	22.5	1.0	
40	QPSK	216	0	20.73	20.76	20.52	22.5	1.0	
40	16QAM	1	1	20.79	20.96	20.81	22.5	1.0	
40	16QAM	1	1	19.28	19.24	19.04	21.0	2.5	
40	256QAM	1	1	17.28	17.30	17.27	19.0	4.5	
Channel				372000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	21.61	21.69	21.69	23.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	21.57	21.70	21.66	23.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	21.65	21.63	21.65	23.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	21.64	21.63	21.65	23.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	21.57	21.68	21.68	23.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	21.68	21.63	21.57	23.5	0.0	

n26 Modem A Ant0									
BW (MHz)	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800		166300 167800			
Frequency (MHz)				824		831.5 839			
20	PI2 BPSK	1	1	22.68	22.64	22.85	24.5	0.0	
20	PI2 BPSK	1	53	22.70	22.65	22.75			
20	PI2 BPSK	1	104	22.81	22.65	22.73			
20	PI2 BPSK	50	0	22.33	22.27	22.25	24.0	0.5	
20	PI2 BPSK	50	28	22.70	22.65	22.75	24.5	0.0	
20	PI2 BPSK	50	56	22.43	22.23	22.53	24.0	0.5	
20	PI2 BPSK	100	0	22.23	22.38	22.47			
20	QPSK	1	1	22.78	22.85	22.58	24.5	0.0	
20	QPSK	1	53	22.70	22.73	22.78			
20	QPSK	1	104	22.65	22.64	22.67			
20	QPSK	50	0	21.84	21.75	21.80	23.5	1.0	
20	QPSK	50	28	22.79	22.68	22.85	24.5	0.0	
20	QPSK	50	56	21.93	21.74	21.76	23.5	1.0	
20	QPSK	100	0	21.93	21.88	21.95			
20	16QAM	1	1	22.02	21.71	21.95	23.5	1.0	
20	16QAM	1	1	20.39	20.31	20.37	22.0	2.5	
20	256QAM	1	1	18.33	18.36	18.48	20.0	4.5	
Channel				164300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.79	22.89	22.80	24.5	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.72	22.92	22.78	24.5	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				818.5	831.5	846.5			
5	QPSK	1	1	22.72	22.89	22.78	24.5	0.0	

n30 Modem A Ant0									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1	13.06			14.5	0.0	
10	PI/2 BPSK	1	26	12.95					
10	PI/2 BPSK	1	50	12.83					
10	PI/2 BPSK	25	0	12.71			14.5	0.0	
10	PI/2 BPSK	25	14	12.91			14.5	0.0	
10	PI/2 BPSK	25	27	12.83			14.5	0.0	
10	PI/2 BPSK	50	0	12.86					
10	QPSK	1	1	13.14					
10	QPSK	1	26	13.00			14.5	0.0	
10	QPSK	1	50	13.10					
10	QPSK	25	0	13.02			14.5	0.0	
10	QPSK	25	14	13.05			14.5	0.0	
10	QPSK	25	27	12.91			14.5	0.0	
10	QPSK	50	0	12.84					
10	16QAM	1	1	13.09			14.5	0.0	
10	64QAM	1	1	13.01			14.5	0.0	
10	256QAM	1	1	13.00			14.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	13.09	13.10	13.07	14.5	0.0	

n66 Modem A Ant0									
BW [MHz]	Modulatio n	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		
Frequency (MHz)				1730		1745	1760		
40	PI/2 BPSK	1	1	19.14	19.21	19.07			
40	PI/2 BPSK	1	108	19.06	19.09	19.01	21.0	0.0	
40	PI/2 BPSK	1	214	19.06	19.16	19.07			
40	PI/2 BPSK	108	0	19.14	19.21	19.09	21.0	0.0	
40	PI/2 BPSK	108	54	19.12	19.12	19.03	21.0	0.0	
40	PI/2 BPSK	108	108	19.02	19.13	19.10	21.0	0.0	
40	PI/2 BPSK	216	0	19.10	19.17	19.01			
40	QPSK	1	1	19.20	19.24	19.21			
40	QPSK	1	108	19.17	19.16	19.06	21.0	0.0	
40	QPSK	1	214	19.06	19.16	19.06			
40	QPSK	108	0	19.06	19.15	19.06	21.0	0.0	
40	QPSK	108	54	19.16	19.17	19.06	21.0	0.0	
40	QPSK	108	108	19.14	19.16	19.05			
40	QPSK	216	0	19.13	19.17	19.06	21.0	0.0	
40	16QAM	1	1	19.14	19.16	19.09	21.0	0.0	
40	64QAM	1	1	19.08	19.15	19.04	21.0	0.0	
40	256QAM	1	1	19.22	19.32	19.30	20.0	1.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.17	19.12	19.06	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.15	19.22	19.05	21.0	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.14	19.21	19.05	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.14	19.19	19.05	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.18	19.14	19.03	21.0	0.0	

n71 Modem A Ant0									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600		136100	137600		
Frequency (MHz)				673		680.5	688		
20	PI/2 BPSK	1	1	22.71	22.81	22.78			
20	PI/2 BPSK	1	53	22.71	22.78	22.69	24.5	0.0	
20	PI/2 BPSK	1	104	22.80	22.78	22.71			
20	PI/2 BPSK	50	0	22.38	22.29	22.26	24.0	0.5	
20	PI/2 BPSK	50	28	22.74	22.78	22.75	24.5	0.0	
20	PI/2 BPSK	50	56	22.40	22.54	22.27	24.0	0.5	
20	PI/2 BPSK	100	0	22.20	22.52	22.37			
20	QPSK	1	1	22.94	22.97	22.96			
20	QPSK	1	53	22.74	22.81	22.69	24.5	0.0	
20	QPSK	1	104	22.77	22.72	22.75			
20	QPSK	50	0	21.87	21.79	21.74	23.5	1.0	
20	QPSK	50	28	22.79	22.88	22.71	24.5	0.0	
20	QPSK	50	56	21.96	21.73	21.74	23.5	1.0	
20	QPSK	100	0	21.89	21.93	21.92			
20	16QAM	1	1	22.07	21.95	21.74	23.5	1.0	
20	64QAM	1	1	20.44	20.39	20.29	22.0	2.5	
20	256QAM	1	1	19.37	19.52	19.38	20.0	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.90	22.94	22.96	24.5	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.86	22.91	22.85	24.5	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.98	22.93	22.89	24.5	0.0	

n38 PC2/3 Modem A Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.13	19.35	19.09	21.0	0.0	
40	PI/2 BPSK	1	53	19.03	19.36	19.05			
40	PI/2 BPSK	1	104	19.21	19.30	19.09			
40	PI/2 BPSK	50	0	19.08	19.36	19.18	21.0	0.0	
40	PI/2 BPSK	50	28	19.12	19.37	19.13	21.0	0.0	
40	PI/2 BPSK	50	56	19.08	19.30	19.18	21.0	0.0	
40	PI/2 BPSK	100	0	19.08	19.41	19.23			
40	QPSK	1	1	19.19	19.47	19.23			
40	QPSK	1	53	19.24	19.37	19.09	21.0	0.0	
40	QPSK	1	104	19.22	19.41	19.01	21.0	0.0	
40	QPSK	50	0	19.24	19.35	19.27			
40	QPSK	50	28	19.19	19.37	19.11			
40	QPSK	50	56	19.18	19.31	19.12	21.0	0.0	
40	QPSK	100	0	19.16	19.34	19.19	21.0	0.0	
40	16QAM	1	1	19.19	19.34	19.07			
40	64QAM	1	1	19.27	19.28	19.07			
40	256QAM	1	1	17.83	18.05	17.91	19.5	1.5	
Channel				517002	519000	520998			
Frequency (MHz)				2593.01	2595	2594.99			
30	QPSK	1	1	19.18	19.37	19.16	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.17	19.39	19.11	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.14	19.35	19.12	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.21	19.41	19.18	21.0	0.0	

n41 PC2/3 Modem A 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				509202	518598	528500			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.33	19.50	19.26	21.0	0.0	
100	PI/2 BPSK	1	137	19.24	19.54	19.23		0.0	
100	PI/2 BPSK	1	271	19.31	19.41	19.28		0.0	
100	PI/2 BPSK	135	0	19.28	19.46	19.29	21.0	0.0	
100	PI/2 BPSK	135	69	19.23	19.47	19.33	21.0	0.0	
100	PI/2 BPSK	135	138	19.22	19.42	19.29	21.0	0.0	
100	PI/2 BPSK	270	0	19.27	19.54	19.32		0.0	
100	QPSK	1	1	19.29	19.56	19.33		0.0	
100	QPSK	1	137	19.35	19.49	19.26	21.0	0.0	
100	QPSK	1	271	19.35	19.45	19.21	21.0	0.0	
100	QPSK	135	0	19.36	19.47	19.36		0.0	
100	QPSK	135	69	19.33	19.49	19.30		0.0	
100	QPSK	135	138	19.27	19.43	19.31	21.0	0.0	
100	QPSK	270	0	19.37	19.48	19.29	21.0	0.0	
100	16QAM	1	1	19.35	19.48	19.22		0.0	
100	64QAM	1	1	19.36	19.44	19.24		0.0	
100	256QAM	1	1	17.98	18.16	18.07	19.5	1.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.31	19.51	19.31	21.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2592.99	2648.99			
80	QPSK	1	1	19.38	19.43	19.24	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	19.32	19.50	19.25	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	19.30	19.42	19.34	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.34	19.55	19.35	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.28	19.42	19.36	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.38	19.42	19.29	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.30	19.49	19.35	21.0	0.0	

n2 Modem A Ant2									
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				1860	1880	1900			
20	PI/2 BPSK	1	1	22.54	22.56	22.57		23.5	0.0
20	PI/2 BPSK	1	53	22.50	22.53	22.49			
20	PI/2 BPSK	1	104	22.52	22.53	22.47			
20	PI/2 BPSK	50	0	22.05	22.15	22.06	23.0	0.5	
20	PI/2 BPSK	50	28	22.52	22.55	22.58	23.5	0.0	
20	PI/2 BPSK	50	56	22.06	22.08	22.08	23.0	0.5	
20	PI/2 BPSK	100	0	22.02	22.07	22.14			
20	QPSK	1	1	22.57	22.61	22.60			
20	QPSK	1	53	22.49	22.52	22.53		23.5	0.0
20	QPSK	1	104	22.48	22.52	22.53			
20	QPSK	50	0	21.59	21.58	21.61	22.5	1.0	
20	QPSK	50	28	22.44	22.51	22.50	23.5	0.0	
20	QPSK	50	56	21.55	21.61	21.59	22.5	1.0	
20	QPSK	100	0	21.53	21.63	21.59			
20	16QAM	1	1	21.60	21.60	21.61	22.5	1.0	
20	64QAM	1	1	20.11	20.07	20.07	21.0	2.5	
20	256QAM	1	1	18.05	18.09	18.12	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.44	22.50	22.53	0.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.43	22.50	22.48	0.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.47	22.55	22.53	23.5	0.0	

n7 Modem A Ant2									
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				2320	2535	2550			
40	PI/2 BPSK	1	1	19.73	19.78	19.59		20.5	0.0
40	PI/2 BPSK	1	108	19.77	19.73	19.54			
40	PI/2 BPSK	1	214	19.69	19.68	19.57			
40	PI/2 BPSK	108	0	19.63	19.72	19.60	20.5	0.0	
40	PI/2 BPSK	108	54	19.76	19.77	19.59	20.5	0.0	
40	PI/2 BPSK	108	108	19.72	19.81	19.50	20.5	0.0	
40	PI/2 BPSK	216	0	19.76	19.72	19.65			
40	QPSK	1	1	19.66	19.82	19.53			
40	QPSK	1	108	19.71	19.78	19.54		20.5	0.0
40	QPSK	1	214	19.64	19.66	19.59			
40	QPSK	108	0	19.66	19.74	19.53	20.5	0.0	
40	QPSK	108	54	19.72	19.75	19.57	20.5	0.0	
40	QPSK	108	108	19.69	19.68	19.50	20.5	0.0	
40	QPSK	216	0	19.73	19.74	19.50			
40	16QAM	1	1	19.62	19.75	19.57	20.5	0.0	
40	64QAM	1	1	19.63	19.75	19.63	20.5	0.0	
40	256QAM	1	1	18.16	18.15	18.21	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.75	19.72	19.53	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.72	19.71	19.52	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	19.72	19.68	19.54	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	19.74	19.75	19.58	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.69	19.75	19.54	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.71	19.77	19.50	20.5	0.0	

n25 Modem A Ant2									
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				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	22.55	22.59	22.56		23.5	0.0
40	PI/2 BPSK	1	108	22.52	22.63	22.54			
40	PI/2 BPSK	1	214	22.60	22.63	22.53			
40	PI/2 BPSK	108	0	22.12	22.25	22.12	23.0	0.5	
40	PI/2 BPSK	108	54	22.55	22.59	22.62	23.5	0.0	
40	PI/2 BPSK	108	108	22.15	22.18	22.12	23.0	0.5	
40	PI/2 BPSK	216	0	22.04	22.11	22.15			
40	QPSK	1	1	22.67	22.69	22.64			
40	QPSK	1	108	22.52	22.57	22.60		23.5	0.0
40	QPSK	1	214	22.63	22.59	22.60			
40	QPSK	108	0	21.63	21.65	21.69	22.5	1.0	
40	QPSK	108	54	22.48	22.64	22.60	23.5	0.0	
40	QPSK	108	108	21.63	21.69	21.66	22.5	1.0	
40	QPSK	216	0	21.57	21.67	21.66			
40	16QAM	1	1	21.69	21.68	21.62	22.5	1.0	
40	64QAM	1	1	20.15	20.10	20.13	21.0	2.5	
40	256QAM	1	1	18.10	18.10	18.16	19.0	4.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.64	22.65	22.57	23.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.64	22.65	22.58	23.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.60	22.62	22.58	23.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.61	22.63	22.60	23.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.60	22.64	22.59	23.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.62	22.64	22.57	23.5	0.0	

n30 Modem A Ant2									
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				462000			14.5	0.0	
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		12.94		14.5	0.0	
10	PI/2 BPSK	1	26		12.93				
10	PI/2 BPSK	1	50		12.78		14.5	0.0	
10	PI/2 BPSK	25	0		12.88				
10	PI/2 BPSK	25	14		12.86		14.5	0.0	
10	PI/2 BPSK	25	27		12.76				
10	PI/2 BPSK	50	0		12.69		14.5	0.0	
10	QPSK	1	1		13.11				
10	QPSK	1	26		12.95		14.5	0.0	
10	QPSK	1	50		13.01				
10	QPSK	25	0		12.91		14.5	0.0	
10	QPSK	25	14		13.00				
10	QPSK	25	27		12.67		14.5	0.0	
10	QPSK	50	0		12.88				
10	16QAM	1	1		12.99		14.5	0.0	
10	64QAM	1	1		12.89				
10	256QAM	1	1		13.03		14.5	0.0	
Channel				461500	462000	462500			
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)		MPR (dB)
5	QPSK	1	1	13.07	13.10	13.07	14.5	0.0	

n66 Modem A Ant2									
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			21.0	0.0	
Frequency (MHz)				1730 1745 1760					
40	PI/2 BPSK	1	1	19.29	19.30	19.25	21.0	0.0	
40	PI/2 BPSK	1	108	19.17	19.26	19.27			
40	PI/2 BPSK	1	214	19.30	19.35	19.16	21.0	0.0	
40	PI/2 BPSK	108	0	19.27	19.35	19.26			
40	PI/2 BPSK	108	54	19.33	19.30	19.24	21.0	0.0	
40	PI/2 BPSK	108	108	19.18	19.30	19.28			
40	PI/2 BPSK	216	0	19.32	19.27	19.16	21.0	0.0	
40	QPSK	1	1	19.31	19.40	19.33			
40	QPSK	1	108	19.30	19.35	19.15	21.0	0.0	
40	QPSK	1	214	19.33	19.32	19.19			
40	QPSK	108	0	19.27	19.37	19.22	21.0	0.0	
40	QPSK	108	54	19.21	19.39	19.30			
40	QPSK	108	108	19.34	19.29	19.19	21.0	0.0	
40	QPSK	216	0	19.26	19.31	19.27			
40	16QAM	1	1	19.33	19.36	19.15	21.0	0.0	
40	64QAM	1	1	19.26	19.36	19.17			
40	256QAM	1	1	19.31	19.42	19.36	20.0	1.0	
Channel				345000	346000	353000			
Frequency (MHz)				1725	1745	1765	Tune-up limit (dBm)		MPR (dB)
30	QPSK	1	1	19.28	19.31	19.23	21.0	0.0	
Channel				344000	345000	346000			
Frequency (MHz)				1720	1745	1770	Tune-up limit (dBm)		MPR (dB)
20	QPSK	1	1	19.34	19.36	19.18	21.0	0.0	
Channel				343500	345000	346500			
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)		MPR (dB)
15	QPSK	1	1	19.30	19.36	19.18	21.0	0.0	
Channel				343000	345000	350000			
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)		MPR (dB)
10	QPSK	1	1	19.26	19.37	19.14	21.0	0.0	
Channel				342500	345000	355000			
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)		MPR (dB)
5	QPSK	1	1	19.26	19.35	19.19	21.0	0.0	

n70 Modem A Ant2								
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				340500				
Frequency (MHz)				1702.5				
15	PI/2 BPSK	1	1		19.37		21.0	0.0
15	PI/2 BPSK	1	40		19.27			
15	PI/2 BPSK	1	77		19.36		21.0	0.0
15	PI/2 BPSK	36	0		19.40			
15	PI/2 BPSK	36	22		19.39		21.0	0.0
15	PI/2 BPSK	36	43		19.29			
15	PI/2 BPSK	75	0		19.34		21.0	0.0
15	QPSK	1	1		19.43			
15	QPSK	1	40		19.25		21.0	0.0
15	QPSK	1	77		19.32			
15	QPSK	36	0		19.30		21.0	0.0
15	QPSK	36	22		19.40			
15	QPSK	36	43		19.32		21.0	0.0
15	QPSK	75	0		19.32			
15	16QAM	1	1		19.32		21.0	0.0
15	64QAM	1	1		19.26			
15	256QAM	1	1		19.45		20.0	1.0
Channel				340000	340500	341000		
Frequency (MHz)				1700	1702.5	1705	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.34	19.37	19.31	21.0	0.0
Channel				339500	340500	341500		
Frequency (MHz)				1697.5	1702.5	1707.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.37	19.37	19.31	21.0	0.0

PC2/3 n38 Modem A Ant2									
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			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	19.31	19.48	19.35	21.0	0.0	
40	PI2 BPSK	1	53	19.21	19.50	19.52	21.0	0.0	
40	PI2 BPSK	1	104	19.28	19.52	19.41	21.0	0.0	
40	PI2 BPSK	50	0	19.28	19.50	19.43	21.0	0.0	
40	PI2 BPSK	50	28	19.20	19.53	19.44	21.0	0.0	
40	PI2 BPSK	50	56	19.29	19.48	19.41	21.0	0.0	
40	PI2 BPSK	100	0	19.22	19.51	19.42	21.0	0.0	
40	QPSK	1	1	19.26	19.57	19.41	21.0	0.0	
40	QPSK	1	53	19.21	19.49	19.45	21.0	0.0	
40	QPSK	1	104	19.22	19.36	19.39	21.0	0.0	
40	QPSK	50	0	19.14	19.45	19.45	21.0	0.0	
40	QPSK	50	28	19.22	19.51	19.41	21.0	0.0	
40	QPSK	50	56	19.20	19.50	19.42	21.0	0.0	
40	QPSK	100	0	19.22	19.41	19.40	21.0	0.0	
40	16QAM	1	1	19.15	19.38	19.45	21.0	0.0	
40	64QAM	1	1	19.18	19.42	19.46	21.0	0.0	
40	256QAM	1	1	17.97	17.93	18.00	19.5	1.5	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.26	19.50	19.52	21.0	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.27	19.51	19.49	21.0	0.0	
Channel				515802	518000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.22	19.51	19.42	21.0	0.0	
Channel				515004	518000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.32	19.55	19.48	21.0	0.0	

PC2/3 n41 Modem A Ant2									
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	518998	529000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	19.38	19.65	19.53	21.0	0.0	
100	PI2 BPSK	1	137	19.35	19.58	19.61	21.0	0.0	
100	PI2 BPSK	1	271	19.34	19.68	19.54	21.0	0.0	
100	PI2 BPSK	135	0	19.41	19.66	19.55	21.0	0.0	
100	PI2 BPSK	135	69	19.27	19.68	19.61	21.0	0.0	
100	PI2 BPSK	135	138	19.38	19.65	19.46	21.0	0.0	
100	PI2 BPSK	270	0	19.29	19.67	19.48	21.0	0.0	
100	QPSK	1	1	19.33	19.69	19.60	21.0	0.0	
100	QPSK	1	137	19.36	19.64	19.57	21.0	0.0	
100	QPSK	1	271	19.34	19.55	19.57	21.0	0.0	
100	QPSK	135	0	19.31	19.58	19.60	21.0	0.0	
100	QPSK	135	69	19.35	19.67	19.59	21.0	0.0	
100	QPSK	135	138	19.26	19.66	19.49	21.0	0.0	
100	QPSK	270	0	19.29	19.58	19.57	21.0	0.0	
100	16QAM	1	1	19.31	19.54	19.54	21.0	0.0	
100	64QAM	1	1	19.31	19.68	19.51	21.0	0.0	
100	256QAM	1	1	18.04	18.10	18.10	19.5	1.5	
Channel				508200	518998	529998			
Frequency (MHz)				2541	2592.99	2644.99			
90	QPSK	1	1	19.40	19.67	19.59	21.0	0.0	
Channel				507204	518998	529998			
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	19.38	19.58	19.54	21.0	0.0	
Channel				506202	518998	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.36	19.59	19.52	21.0	0.0	
Channel				505200	518998	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.31	19.64	19.48	21.0	0.0	
Channel				504204	518998	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.39	19.68	19.54	21.0	0.0	
Channel				503202	518998	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.28	19.62	19.56	21.0	0.0	
Channel				502200	518998	535000			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.40	19.59	19.56	21.0	0.0	
Channel				501204	518998	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.30	19.56	19.59	21.0	0.0	

n48_FCC Modem A Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR	
Channel				638000	641666	645332			
Frequency (MHz)				3670	3624.99	3679.98			
40	PI2 BPSK	1	1	15.25	15.30	15.14			
40	PI2 BPSK	1	53	15.16	15.27	15.15	17.0	0.0	
40	PI2 BPSK	1	104	15.20	15.29	15.19			
40	PI2 BPSK	50	0	14.79	14.91	14.70	16.5	0.5	
40	PI2 BPSK	50	28	15.25	15.28	15.29	17.0	0.0	
40	PI2 BPSK	50	56	14.82	14.86	14.78	16.5	0.5	
40	PI2 BPSK	100	0	14.68	14.70	14.84	16.0	1.0	
40	QPSK	1	1	15.28	15.32	15.25			
40	QPSK	1	53	15.18	15.23	15.20			
40	QPSK	1	104	15.23	15.25	15.31			
40	QPSK	50	0	14.31	14.31	14.36	16.0	1.0	
40	QPSK	50	28	15.17	15.24	15.22	17.0	0.0	
40	QPSK	50	56	14.31	14.31	14.33	16.0	1.0	
40	QPSK	100	0	14.17	14.34	14.27	16.0	1.0	
40	16QAM	1	1	12.85	12.75	12.81	14.5	2.5	
40	256QAM	1	1	10.70	10.76	10.86	12.5	4.5	
Channel				637334	641666	646000			
Frequency (MHz)				3560.01	3624.99	3670			
20	QPSK	1	1	15.21	15.27	15.17	17.0	0.0	
Channel				637000	641666	646332			
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	15.19	15.26	15.17	17.0	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				65000	65000	65000		
Frequency (MHz)				3495	3495	3505		
100	PI2 BPSK	1	1	22.48	22.48	22.48		
100	PI2 BPSK	1	137	22.52	22.43	22.42	24.0	0.0
100	PI2 BPSK	1	271	22.43	22.54	22.48		
100	PI2 BPSK	135	0	22.42	22.54	22.54	24.0	0.0
100	PI2 BPSK	135	69	22.40	22.42	22.36	24.0	0.0
100	PI2 BPSK	135	138	22.44	22.47	22.49	24.0	0.0
100	PI2 BPSK	270	0	22.53	22.43	22.41		
100	QPSK	1	1	22.44	22.56	22.55		
100	QPSK	1	137	22.46	22.46	22.45	24.0	0.0
100	QPSK	1	271	22.55	22.51	22.55		
100	QPSK	135	0	22.45	22.45	22.44	24.0	0.0
100	QPSK	135	69	22.50	22.51	22.46	24.0	0.0
100	QPSK	135	138	22.50	22.45	22.46		
100	QPSK	270	0	22.48	22.53	22.52	24.0	0.0
100	16QAM	1	1	22.44	22.43	22.53	24.0	0.0
100	64QAM	1	1	22.48	22.48	22.45	24.0	0.0
100	256QAM	1	1	20.20	20.27	20.19	22.0	2.0
Channel				64899	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3855.01		
90	QPSK	1	1	22.48	22.48	22.48	24.0	0.0
Channel				64934	65000	65098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3748.01	3840	3840.02		
80	QPSK	1	1	22.48	22.48	22.41	24.0	0.0
Channel				64800	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3845		
70	QPSK	1	1	22.48	22.48	22.48	24.0	0.0
Channel				64899	65000	65334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750.02	3840	3850.01		
60	QPSK	1	1	22.48	22.48	22.48	24.0	0.0
Channel				64834	65000	65368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3855.02		
50	QPSK	1	1	22.48	22.48	22.48	24.0	0.0
Channel				64800	65000	65400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3860		
40	QPSK	1	1	22.48	22.48	22.48	24.0	0.0
Channel				64700	65000	65434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3718.02	3840	3865.01		
30	QPSK	1	1	22.48	22.48	22.48	24.0	0.0
Channel				64734	65000	65468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3845	3870.02		
20	QPSK	1	1	22.48	22.48	22.48	24.0	0.0
Channel				64768	65000	65494	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3872.51		
15	QPSK	1	1	22.48	22.48	22.48	24.0	0.0
Channel				64700	65000	65500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3875		
10	QPSK	1	1	22.48	22.48	22.48	24.0	0.0

PC3/PC2 Part27Q n77 Modem A Ant2

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					63334			
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		22.33			
100	PI2 BPSK	1	137		22.40		24.0	0.0
100	PI2 BPSK	1	271		22.38			
100	PI2 BPSK	135	0		22.42		24.0	0.0
100	PI2 BPSK	135	69		22.33		24.0	0.0
100	PI2 BPSK	135	138		22.33		24.0	0.0
100	PI2 BPSK	270	0		22.34			
100	QPSK	1	1		22.47			
100	QPSK	1	137		22.38		24.0	0.0
100	QPSK	1	271		22.37			
100	QPSK	135	0		22.31		24.0	0.0
100	QPSK	135	69		22.43		24.0	0.0
100	QPSK	135	138		22.41			
100	QPSK	270	0		22.33		24.0	0.0
100	16QAM	1	1		22.32		24.0	0.0
100	64QAM	1	1		22.35		24.0	0.0
100	256QAM	1	1		20.38		22.0	2.0
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.31	22.25	22.29	24.0	0.0
Channel				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.27	22.19	22.22	24.0	0.0
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.29	22.32	22.23	24.0	0.0
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.32	22.31	22.31	24.0	0.0
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.23	22.22	22.35	24.0	0.0
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.24	22.34	22.34	24.0	0.0
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.34	22.34	22.33	24.0	0.0
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.32	22.24	22.24	24.0	0.0
Channel				63050	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.25	22.23	22.30	24.0	0.0
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.35	22.22	22.28	24.0	0.0

PC3/PC2 Part27O n78 Modem A Ant2

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)				65000	65000	65000		
				3760	3760	3760		
100	PI2 BPSK	1	1	22.31	22.31	22.31		
100	PI2 BPSK	1	137	22.38	22.29	22.26	24.0	0.0
100	PI2 BPSK	1	271	22.35	22.27	22.25		
100	PI2 BPSK	135	0	22.35	22.35	22.33	24.0	0.0
100	PI2 BPSK	135	69	22.35	22.37	22.29	24.0	0.0
100	PI2 BPSK	135	135	22.38	22.37	22.26	24.0	0.0
100	PI2 BPSK	270	0	22.32	22.34	22.37		
100	QPSK	1	1	22.29	22.43	22.29		
100	QPSK	1	137	22.31	22.24	22.35	24.0	0.0
100	QPSK	1	271	22.35	22.24	22.35		
100	QPSK	135	0	22.24	22.27	22.29	24.0	0.0
100	QPSK	135	69	22.30	22.37	22.35	24.0	0.0
100	QPSK	135	135	22.31	22.30	22.24	24.0	0.0
100	QPSK	270	0	22.35	22.35	22.33		
100	16QAM	1	1	22.29	22.36	22.29	24.0	0.0
100	64QAM	1	1	22.32	22.32	22.39	24.0	0.0
100	256QAM	1	1	20.07	20.03	20.03	22.0	2.0
Channel								
Frequency (MHz)				649968	650000	650334	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01		
90	QPSK	1	1	22.13	22.16	22.20	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3760.02		
80	QPSK	1	1	22.19	22.24	22.14	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
70	QPSK	1	1	22.23	22.20	22.24	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3770.01		
60	QPSK	1	1	22.23	22.20	22.17	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02		
50	QPSK	1	1	22.22	22.18	22.17	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3780		
40	QPSK	1	1	22.24	22.14	22.27	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3765.01		
30	QPSK	1	1	22.23	22.27	22.16	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3750.02		
20	QPSK	1	1	22.17	22.27	22.19	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	652834	Tune-up limit (dBm)	MPR (dB)
				3707.52	3750	3762.51		
15	QPSK	1	1	22.20	22.11	22.13	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
10	QPSK	1	1	22.12	22.13	22.13	24.0	0.0

PC3/PC2 Part27Q n78 Modem A Ant2

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)				63300	63334			
				3480	3480.01			
100	PI2 BPSK	1	1	22.42				
100	PI2 BPSK	1	137	22.41			24.0	0.0
100	PI2 BPSK	1	271	22.34				
100	PI2 BPSK	135	0	22.41			24.0	0.0
100	PI2 BPSK	135	69	22.40			24.0	0.0
100	PI2 BPSK	135	135	22.45			24.0	0.0
100	PI2 BPSK	270	0	22.34				
100	QPSK	1	1	22.47				
100	QPSK	1	137	22.33			24.0	0.0
100	QPSK	1	271	22.44				
100	QPSK	135	0	22.41			24.0	0.0
100	QPSK	135	69	22.40			24.0	0.0
100	QPSK	135	135	22.52			24.0	0.0
100	QPSK	270	0	22.31				
100	16QAM	1	1	22.45			24.0	0.0
100	64QAM	1	1	22.33			24.0	0.0
100	256QAM	1	1	20.38			22.0	2.0
Channel								
Frequency (MHz)				63200	63334	633668	Tune-up limit (dBm)	MPR (dB)
				3480	3500.01	3505.02		
90	QPSK	1	1	22.31	22.34	22.37	24.0	0.0
Channel								
Frequency (MHz)				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
				3490.02	3500.01	3510		
80	QPSK	1	1	22.40	22.29	22.43	24.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.35	22.43	22.39	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
				3480	3500.01	3520.02		
60	QPSK	1	1	22.35	22.29	22.41	24.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
				3475.02	3500.01	3525		
50	QPSK	1	1	22.33	22.39	22.28	24.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
				3470.01	3505.01	3530.01		
40	QPSK	1	1	22.32	22.36	22.39	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
				3460	3500.01	3535.02		
30	QPSK	1	1	22.41	22.31	22.30	24.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
				3460.02	3505.01	3540		
20	QPSK	1	1	22.30	22.38	22.32	24.0	0.0
Channel								
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.42	22.33	22.30	24.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.37	22.39	22.35	24.0	0.0

n2 Modem B 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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	21.66	21.71	21.52		23.5	0.0
20	PI2 BPSK	1	53	21.61	21.67	21.54			
20	PI2 BPSK	1	104	21.64	21.71	21.52			
20	PI2 BPSK	50	0	21.32	21.31	21.19	23.0	0.5	
20	PI2 BPSK	50	28	21.59	21.73	21.55	23.5	0.0	
20	PI2 BPSK	50	56	21.27	21.34	21.14	23.0	0.5	
20	PI2 BPSK	100	0	21.28	21.42	21.22			
20	QPSK	1	1	21.78	21.81	21.74			
20	QPSK	1	53	21.66	21.66	21.55	23.5	0.0	
20	QPSK	1	104	21.60	21.72	21.51			
20	QPSK	50	0	20.79	20.80	20.66	22.5	1.0	
20	QPSK	50	28	21.74	21.76	21.60	23.5	0.0	
20	QPSK	50	56	20.78	20.73	20.64	22.5	1.0	
20	QPSK	100	0	20.83	20.85	20.72			
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	21.70	21.71	21.69	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	21.70	21.75	21.68	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	21.68	21.73	21.65	23.5	0.0	

n5 Modem B 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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.69	22.74	22.51		24.5	0.0
20	PI2 BPSK	1	53	22.68	22.69	22.55			
20	PI2 BPSK	1	104	22.70	22.83	22.59			
20	PI2 BPSK	50	0	22.37	22.41	22.31	24.0	0.5	
20	PI2 BPSK	50	28	22.68	22.82	22.65	24.5	0.0	
20	PI2 BPSK	50	56	22.39	22.33	22.16	24.0	0.5	
20	PI2 BPSK	100	0	22.30	22.51	22.27			
20	QPSK	1	1	22.88	22.90	22.85			
20	QPSK	1	53	22.76	22.70	22.62	24.5	0.0	
20	QPSK	1	104	22.72	22.74	22.70			
20	QPSK	50	0	21.91	21.88	21.78	23.5	1.0	
20	QPSK	50	28	22.82	22.80	22.67	24.5	0.0	
20	QPSK	50	56	21.81	21.84	21.69	23.5	1.0	
20	QPSK	100	0	21.77	21.84	21.74			
20	16QAM	1	1	21.86	22.07	21.77	23.5	1.0	
20	64QAM	1	1	20.26	20.32	20.15	22.0	2.5	
20	256QAM	1	1	18.41	18.33	18.26	20.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.79	22.82	22.83	24.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.72	22.80	22.74	24.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.83	22.82	22.74	24.5	0.0	

n7 Modem B 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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.73	18.74	18.64		20.5	0.0
40	PI2 BPSK	1	108	18.62	18.85	18.53			
40	PI2 BPSK	1	214	18.61	18.70	18.67			
40	PI2 BPSK	108	0	18.72	18.81	18.58	20.5	0.0	
40	PI2 BPSK	108	54	18.67	18.74	18.54	20.5	0.0	
40	PI2 BPSK	108	108	18.69	18.71	18.67	20.5	0.0	
40	PI2 BPSK	216	0	18.76	18.79	18.59			
40	QPSK	1	1	18.70	18.86	18.59			
40	QPSK	1	108	18.64	18.76	18.59	20.5	0.0	
40	QPSK	1	214	18.75	18.84	18.60			
40	QPSK	108	0	18.68	18.83	18.67	20.5	0.0	
40	QPSK	108	54	18.69	18.84	18.64	20.5	0.0	
40	QPSK	108	108	18.76	18.77	18.67	20.5	0.0	
40	QPSK	216	0	18.69	18.83	18.67			
40	16QAM	1	1	18.68	18.75	18.59	20.5	0.0	
40	64QAM	1	1	18.69	18.73	18.60	20.5	0.0	
40	256QAM	1	1	17.34	17.23	17.21	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.74	18.76	18.60	20.5	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.65	18.85	18.68	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	18.74	18.73	18.69	20.5	0.0	
Channel				501000	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	18.75	18.77	18.57	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.73	18.80	18.58	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.65	18.78	18.57	20.5	0.0	

n12 Modem B 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				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	22.62	22.70	22.64		24.5	0.0
15	PI2 BPSK	1	40	22.61	22.64	22.67			
15	PI2 BPSK	1	77	22.62	22.79	22.53			
15	PI2 BPSK	36	0	22.31	22.35	22.24	24.0	0.5	
15	PI2 BPSK	36	22	22.60	22.75	22.59	24.5	0.0	
15	PI2 BPSK	36	43	22.35	22.27	22.11	24.0	0.5	
15	PI2 BPSK	75	0	22.24	22.46	22.19			
15	QPSK	1	1	22.81	22.85	22.81			
15	QPSK	1	40	22.70	22.65	22.54	24.5	0.0	
15	QPSK	1	77	22.68	22.67	22.62			
15	QPSK	36	0	21.86	21.80	21.73	23.5	1.0	
15	QPSK	36	22	22.77	22.62	22.61	24.5	0.0	
15	QPSK	36	43	21.74	21.77	21.61	23.5	1.0	
15	QPSK	75	0	21.71	21.76	21.67			
15	16QAM	1	1	21.78	22.02	21.72	23.5	1.0	
15	64QAM	1	1	20.19	20.27	20.08	22.0	2.5	
15	256QAM	1	1	18.35	18.26	18.22	20.0	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.74	22.81	22.73	24.5	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.76	22.81	22.74	24.5	0.0	

n13 Modem B 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				156400		156400			
Frequency (MHz)				762					
10	PI2 BPSK	1	1	22.49			24.0	0.0	
10	PI2 BPSK	1	26	22.32					
10	PI2 BPSK	1	50	22.32					
10	PI2 BPSK	25	0	21.79			23.5	0.5	
10	PI2 BPSK	25	14	22.36			24.0	0.0	
10	PI2 BPSK	25	27	22.14			23.5	0.5	
10	PI2 BPSK	50	0	22.02					
10	QPSK	1	1	22.57					
10	QPSK	1	26	22.44			24.0	0.0	
10	QPSK	1	50	22.21					
10	QPSK	25	0	21.35			23.0	1.0	
10	QPSK	25	14	22.52			24.0	0.0	
10	QPSK	25	27	21.28					
10	QPSK	50	0	21.47			23.0	1.0	
10	16QAM	1	1	21.44			23.0	1.0	
10	64QAM	1	1	19.89			21.5	2.5	
10	256QAM	1	1	18.09			18.5	4.5	
Channel				155900		155900		Tune-up limit (dBm)	
Frequency (MHz)				779.5		784.5		MPR (dB)	
5	QPSK	1	1	22.51	22.54	22.50	24.0	0.0	

n14 Modem B 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				158600					
Frequency (MHz)				763					
10	PI2 BPSK	1	1	22.76			24.5	0.0	
10	PI2 BPSK	1	26	22.58					
10	PI2 BPSK	1	50	22.63					
10	PI2 BPSK	25	0	22.16			24.0	0.5	
10	PI2 BPSK	25	14	22.57			24.5	0.0	
10	PI2 BPSK	25	27	22.46			24.0	0.5	
10	PI2 BPSK	50	0	22.27					
10	QPSK	1	1	22.86					
10	QPSK	1	26	22.78			24.5	0.0	
10	QPSK	1	50	22.67					
10	QPSK	25	0	21.65			23.5	1.0	
10	QPSK	25	14	22.76			24.5	0.0	
10	QPSK	25	27	21.70					
10	QPSK	50	0	21.73			23.5	1.0	
10	16QAM	1	1	21.67			23.5	1.0	
10	64QAM	1	1	20.18			22.0	2.5	
10	256QAM	1	1	18.32			20.0	4.5	
Channel				158100		158100		Tune-up limit (dBm)	
Frequency (MHz)				790.5		795.5		MPR (dB)	
5	QPSK	1	1	22.80	22.83	22.75	24.5	0.0	

n25 Modem B 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				374000		375000			
Frequency (MHz)				1670		1695			
40	PI2 BPSK	1	1	22.10	22.18	21.96	23.5	0.0	
40	PI2 BPSK	1	108	22.08	22.08	22.02			
40	PI2 BPSK	1	214	22.03	22.16	22.01			
40	PI2 BPSK	108	0	21.79	21.80	21.60	23.0	0.5	
40	PI2 BPSK	108	54	22.04	22.18	21.98	23.5	0.0	
40	PI2 BPSK	108	108	21.70	21.82	21.60	23.0	0.5	
40	PI2 BPSK	216	0	21.71	21.93	21.65			
40	QPSK	1	1	22.16	22.24	22.23			
40	QPSK	1	108	22.08	22.12	22.04	23.5	0.0	
40	QPSK	1	214	22.05	22.13	21.98			
40	QPSK	108	0	21.25	21.26	21.16	22.5	1.0	
40	QPSK	108	54	22.22	22.23	22.00	23.5	0.0	
40	QPSK	108	108	21.21	21.21	21.03			
40	QPSK	216	0	21.31	21.34	21.22	22.5	1.0	
40	16QAM	1	1	21.27	21.38	21.20	22.5	1.0	
40	64QAM	1	1	19.75	19.81	19.55	21.0	2.5	
40	256QAM	1	1	17.71	17.79	17.69	18.0	4.5	
Channel				373000		380000		Tune-up limit (dBm)	
Frequency (MHz)				1865		1900		MPR (dB)	
30	QPSK	1	1	22.08	22.21	22.20	23.5	0.0	
Channel				372500		380500		Tune-up limit (dBm)	
Frequency (MHz)				1862.5		1902.5		MPR (dB)	
25	QPSK	1	1	22.08	22.14	22.18	23.5	0.0	
Channel				372000		381000		Tune-up limit (dBm)	
Frequency (MHz)				1860		1905		MPR (dB)	
20	QPSK	1	1	22.10	22.16	22.16	23.5	0.0	
Channel				371500		381500		Tune-up limit (dBm)	
Frequency (MHz)				1857.5		1907.5		MPR (dB)	
15	QPSK	1	1	22.08	22.13	22.10	23.5	0.0	
Channel				371000		382000		Tune-up limit (dBm)	
Frequency (MHz)				1855		1910		MPR (dB)	
10	QPSK	1	1	22.10	22.11	22.17	23.5	0.0	
Channel				370500		382500		Tune-up limit (dBm)	
Frequency (MHz)				1852.5		1912.5		MPR (dB)	
5	QPSK	1	1	22.06	22.13	22.14	23.5	0.0	

n26 Modem B 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				164800		167800			
Frequency (MHz)				824		839			
20	PI2 BPSK	1	1	22.72	22.68	22.76	24.5	0.0	
20	PI2 BPSK	1	53	22.72	22.73	22.74			
20	PI2 BPSK	1	104	22.69	22.58	22.81			
20	PI2 BPSK	50	0	22.35	22.33	22.42	24.0	0.5	
20	PI2 BPSK	50	28	22.68	22.61	22.80	24.5	0.0	
20	PI2 BPSK	50	56	22.36	22.20	22.52	24.0	0.5	
20	PI2 BPSK	100	0	22.29	22.25	22.56			
20	QPSK	1	1	22.67	22.76	22.53			
20	QPSK	1	53	22.80	22.80	22.75	24.5	0.0	
20	QPSK	1	104	22.80	22.62	22.77			
20	QPSK	50	0	21.84	21.80	21.84	23.5	1.0	
20	QPSK	50	28	22.80	22.70	22.84	24.5	0.0	
20	QPSK	50	56	21.76	21.64	21.77			
20	QPSK	100	0	21.77	21.79	21.67	23.5	1.0	
20	16QAM	1	1	21.87	21.79	22.10	23.5	1.0	
20	64QAM	1	1	20.23	20.16	20.30	22.0	2.5	
20	256QAM	1	1	18.36	18.31	18.38	20.0	4.5	
Channel				164300		169300		Tune-up limit (dBm)	
Frequency (MHz)				821.5		841.5		MPR (dB)	
15	QPSK	1	1	22.71	22.90	22.78	24.5	0.0	
Channel				163800		168800		Tune-up limit (dBm)	
Frequency (MHz)				819		844		MPR (dB)	
10	QPSK	1	1	22.62	22.92	22.77	24.5	0.0	
Channel				163300		169300		Tune-up limit (dBm)	
Frequency (MHz)				816.5		846.5		MPR (dB)	
5	QPSK	1	1	22.69	22.91	22.75	24.5	0.0	

n30 Modem B 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				462000					
Frequency (MHz)				2310					
10	PI2 BPSK	1	1	12.88				14.5	0.0
10	PI2 BPSK	1	26	12.89					
10	PI2 BPSK	1	50	12.81					
10	PI2 BPSK	25	0	12.53				14.5	0.0
10	PI2 BPSK	25	14	12.78				14.5	0.0
10	PI2 BPSK	25	27	12.83				14.5	0.0
10	PI2 BPSK	50	0	12.76					
10	QPSK	1	1	13.16					
10	QPSK	1	26	12.95				14.5	0.0
10	QPSK	1	50	12.92					
10	QPSK	25	0	13.05				14.5	0.0
10	QPSK	25	14	13.10				14.5	0.0
10	QPSK	25	27	12.83					
10	QPSK	50	0	12.62				14.5	0.0
10	16QAM	1	1	12.88				14.5	0.0
10	64QAM	1	1	12.82				14.5	0.0
10	256QAM	1	1	12.96				14.5	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	12.91	13.01	13.04		14.5	0.0

n66 Modem B 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		352000			
Frequency (MHz)				1730		1745	1760		
40	PI2 BPSK	1	1	19.11	19.19	19.09		21.0	0.0
40	PI2 BPSK	1	108	19.07	19.21	19.07			
40	PI2 BPSK	1	214	19.12	19.23	19.19			
40	PI2 BPSK	108	0	19.06	19.16	19.07	21.0	0.0	
40	PI2 BPSK	108	54	19.14	19.20	19.06	21.0	0.0	
40	PI2 BPSK	108	108	19.07	19.24	19.08	21.0	0.0	
40	PI2 BPSK	216	0	19.11	19.20	19.20	21.0	0.0	
40	QPSK	1	1	19.27	19.34	19.31			
40	QPSK	1	108	19.12	19.21	19.16	21.0	0.0	
40	QPSK	1	214	19.10	19.20	19.16			
40	QPSK	108	0	19.10	19.16	19.23	21.0	0.0	
40	QPSK	108	54	19.23	19.25	19.12	21.0	0.0	
40	QPSK	108	108	19.12	19.17	19.18			
40	QPSK	216	0	19.19	19.20	19.23	21.0	0.0	
40	16QAM	1	1	19.12	19.23	19.21	21.0	0.0	
40	64QAM	1	1	19.06	19.26	19.19	21.0	0.0	
40	256QAM	1	1	19.26	19.30	19.17	20.0	1.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1726	1745	1765			
30	QPSK	1	1	19.20	19.32	19.29	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.19	19.31	19.26	21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.25	19.30	19.24	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.22	19.32	19.20	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.27	19.30	19.26	21.0	0.0	

n71 Modem B 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				134600		136100	137600		
Frequency (MHz)				673		680.5	688		
20	PI2 BPSK	1	1	22.80	22.86	22.70		24.5	0.0
20	PI2 BPSK	1	53	22.81	22.89	22.75			
20	PI2 BPSK	1	104	22.75	22.89	22.86			
20	PI2 BPSK	50	0	22.44	22.56	22.43	24.0	0.5	
20	PI2 BPSK	50	28	22.82	22.82	22.77	24.5	0.0	
20	PI2 BPSK	50	56	22.49	22.44	22.31			
20	PI2 BPSK	100	0	22.31	22.57	22.31	24.0	0.5	
20	QPSK	1	1	22.92	23.01	23.00			
20	QPSK	1	53	22.86	22.85	22.83	24.5	0.0	
20	QPSK	1	104	22.83	22.85	22.90			
20	QPSK	50	0	22.11	21.93	21.86	23.5	1.0	
20	QPSK	50	28	22.88	23.00	22.81	24.5	0.0	
20	QPSK	50	56	21.86	21.85	21.74			
20	QPSK	100	0	21.90	21.92	21.86	23.5	1.0	
20	16QAM	1	1	21.98	22.20	21.92	23.5	1.0	
20	64QAM	1	1	20.29	20.34	20.22	22.0	2.5	
20	256QAM	1	1	18.50	18.53	18.45	20.0	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.87	22.94	22.91	24.5	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.83	22.93	22.90	24.5	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				666.5	680.5	695.5			
5	QPSK	1	1	22.81	22.87	22.94	24.5	0.0	

PC2/3 n38 Modem B 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				516004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.47	19.42	19.49			
40	PI/2 BPSK	1	53	19.40	19.55	19.44	21.0	0.0	
40	PI/2 BPSK	1	104	19.36	19.51	19.42			
40	PI/2 BPSK	50	0	19.47	19.59	19.51	21.0	0.0	
40	PI/2 BPSK	50	28	19.47	19.59	19.37	21.0	0.0	
40	PI/2 BPSK	50	56	19.46	19.49	19.48			
40	PI/2 BPSK	100	0	19.42	19.51	19.42			
40	QPSK	1	1	19.41	19.65	19.49			
40	QPSK	1	53	19.49	19.59	19.53	21.0	0.0	
40	QPSK	1	104	19.47	19.42	19.44			
40	QPSK	50	0	19.47	19.49	19.36	21.0	0.0	
40	QPSK	50	28	19.46	19.64	19.49	21.0	0.0	
40	QPSK	50	56	19.55	19.58	19.52			
40	QPSK	100	0	19.48	19.62	19.41	21.0	0.0	
40	16QAM	1	1	19.55	19.52	19.56	21.0	0.0	
40	64QAM	1	1	19.40	19.45	19.45	21.0	0.0	
40	256QAM	1	1	18.07	18.08	18.12	19.5	1.5	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.45	19.49	19.39	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2595	2595	2610			
20	QPSK	1	1	19.49	19.47	19.43	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.37	19.40	19.43	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.49	19.42	19.43	21.0	0.0	

PC2/3 n41 Modem B 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				509202	518598	520000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.65	19.58	19.58			
100	PI/2 BPSK	1	137	19.57	19.69	19.65	21.0	0.0	
100	PI/2 BPSK	1	271	19.53	19.66	19.63			
100	PI/2 BPSK	135	0	19.59	19.72	19.61	21.0	0.0	
100	PI/2 BPSK	135	69	19.57	19.69	19.56	21.0	0.0	
100	PI/2 BPSK	135	138	19.63	19.60	19.58			
100	PI/2 BPSK	270	0	19.57	19.64	19.59			
100	QPSK	1	1	19.61	19.75	19.67			
100	QPSK	1	137	19.65	19.70	19.65	21.0	0.0	
100	QPSK	1	271	19.57	19.59	19.60			
100	QPSK	135	0	19.64	19.61	19.58	21.0	0.0	
100	QPSK	135	69	19.63	19.74	19.60	21.0	0.0	
100	QPSK	135	138	19.67	19.73	19.61			
100	QPSK	270	0	19.64	19.70	19.63	21.0	0.0	
100	16QAM	1	1	19.65	19.66	19.66	21.0	0.0	
100	64QAM	1	1	19.56	19.62	19.63	21.0	0.0	
100	256QAM	1	1	18.17	18.27	18.28	19.5	1.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.59	19.55	19.57	21.0	0.0	
Channel				507204	518598	529996			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.63	19.71	19.69	21.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.61	19.59	19.55	21.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.51	19.70	19.67	21.0	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.65	19.65	19.65	21.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.64	19.62	19.54	21.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.59	19.71	19.61	21.0	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.65	19.73	19.61	21.0	0.0	

n2 Modem B Ant2									
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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.48	22.51	22.37			
20	PI2 BPSK	1	53	22.37	22.50	22.17	23.5	0.0	
20	PI2 BPSK	1	104	22.36	22.57	22.39			
20	PI2 BPSK	50	0	22.01	21.92	22.04	23.0	0.5	
20	PI2 BPSK	50	28	22.51	22.47	22.34	23.5	0.0	
20	PI2 BPSK	50	56	22.16	22.36	21.97	23.0	0.5	
20	PI2 BPSK	100	0	21.93	22.36	21.80			
20	QPSK	1	1	22.52	22.58	22.57			
20	QPSK	1	53	22.42	22.50	22.42	23.5	0.0	
20	QPSK	1	104	22.28	22.49	22.38			
20	QPSK	50	0	21.30	21.35	21.49	22.5	1.0	
20	QPSK	50	28	22.51	22.54	22.43	23.5	0.0	
20	QPSK	50	56	21.64	21.63	21.61	22.5	1.0	
20	QPSK	100	0	21.63	21.65	21.41			
20	16QAM	1	1	21.71	21.71	21.58	22.5	1.0	
20	64QAM	1	1	20.10	19.99	19.77	21.0	2.5	
20	256QAM	1	1	18.09	18.23	18.17	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.48	22.48	22.51	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	22.44	22.53	22.48	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	22.42	22.53	22.49	23.5	0.0	

n7 Modem B Ant2									
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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	19.60	19.67	19.58			
40	PI2 BPSK	1	108	19.65	19.64	19.48	20.5	0.0	
40	PI2 BPSK	1	214	19.62	19.57	19.53			
40	PI2 BPSK	108	0	19.60	19.60	19.49	20.5	0.0	
40	PI2 BPSK	108	54	19.65	19.63	19.45	20.5	0.0	
40	PI2 BPSK	108	108	19.56	19.40	19.58	20.5	0.0	
40	PI2 BPSK	216	0	19.62	19.62	19.48			
40	QPSK	1	1	19.56	19.71	19.58			
40	QPSK	1	108	19.61	19.66	19.54	20.5	0.0	
40	QPSK	1	214	19.63	19.62	19.55			
40	QPSK	108	0	19.58	19.65	19.48	20.5	0.0	
40	QPSK	108	54	19.55	19.70	19.49	20.5	0.0	
40	QPSK	108	108	19.58	19.69	19.48			
40	QPSK	216	0	19.52	19.65	19.60	20.5	0.0	
40	16QAM	1	1	19.64	19.69	19.52	20.5	0.0	
40	64QAM	1	1	19.61	19.56	19.46	20.5	0.0	
40	256QAM	1	1	18.17	18.32	18.21	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.58	19.57	19.55	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.65	19.61	19.56	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	19.62	19.59	19.59	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	19.65	19.57	19.49	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.67	19.64	19.49	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.54	19.61	19.45	20.5	0.0	

n25 Modem B Ant2									
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				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI2 BPSK	1	1	22.56	22.84	22.54			
40	PI2 BPSK	1	108	22.53	22.83	22.25	23.5	0.0	
40	PI2 BPSK	1	214	22.43	22.64	22.49			
40	PI2 BPSK	108	0	22.14	22.05	22.15	23.0	0.5	
40	PI2 BPSK	108	54	22.58	22.52	22.47	23.5	0.0	
40	PI2 BPSK	108	108	22.31	22.46	22.11	23.0	0.5	
40	PI2 BPSK	216	0	22.06	22.45	21.94			
40	QPSK	1	1	22.67	22.68	22.65			
40	QPSK	1	108	22.52	22.62	22.51	23.5	0.0	
40	QPSK	1	214	22.38	22.61	22.45			
40	QPSK	108	0	21.42	21.50	21.61	22.5	1.0	
40	QPSK	108	54	22.61	22.66	22.54	23.5	0.0	
40	QPSK	108	108	21.73	21.80	21.71	22.5	1.0	
40	QPSK	216	0	21.74	21.75	21.66			
40	16QAM	1	1	21.80	21.82	21.66	22.5	1.0	
40	64QAM	1	1	20.17	20.03	19.90	21.0	2.5	
40	256QAM	1	1	18.20	18.35	18.25	19.0	4.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.58	22.61	22.80	23.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.57	22.61	22.55	23.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.56	22.61	22.62	23.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1917.5			
15	QPSK	1	1	22.57	22.62	22.56	23.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	22.62	22.63	22.55	23.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1	22.60	22.63	22.62	23.5	0.0	

n30 Modem B Ant2								
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				462000				
Frequency (MHz)				2310				
10	PI/2 BPSK	1	1		12.84			
10	PI/2 BPSK	1	28		12.89		14.5	0.0
10	PI/2 BPSK	1	50		12.74			
10	PI/2 BPSK	25	0		12.63		14.5	0.0
10	PI/2 BPSK	25	14		12.92		14.5	0.0
10	PI/2 BPSK	25	27		12.65		14.5	0.0
10	PI/2 BPSK	50	0		12.92			
10	QPSK	1	1		13.18			
10	QPSK	1	26		12.85		14.5	0.0
10	QPSK	1	50		13.15			
10	QPSK	25	0		12.92		14.5	0.0
10	QPSK	25	14		13.00		14.5	0.0
10	QPSK	25	27		12.78			
10	QPSK	50	0		12.68		14.5	0.0
10	16QAM	1	1		13.02		14.5	0.0
10	64QAM	1	1		13.02		14.5	0.0
10	256QAM	1	1		13.00		14.5	0.0
Channel				461500		462000		
Frequency (MHz)				2307.5		2312.5		
5	QPSK	1	1	13.00	12.95	13.05	14.5	0.0

n66 Modem B Ant2								
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		352000		
Frequency (MHz)				1730		1760		
40	PI/2 BPSK	1	1	19.32	19.27	19.23		
40	PI/2 BPSK	1	108	19.24	19.34	19.19	21.0	0.0
40	PI/2 BPSK	1	214	19.20	19.32	19.31		
40	PI/2 BPSK	108	0	19.28	19.30	19.24	21.0	0.0
40	PI/2 BPSK	108	54	19.28	19.33	19.19	21.0	0.0
40	PI/2 BPSK	108	108	19.15	19.33	19.26	21.0	0.0
40	PI/2 BPSK	216	0	19.20	19.35	19.30		
40	QPSK	1	1	19.37	19.50	19.42		
40	QPSK	1	108	19.24	19.32	19.32	21.0	0.0
40	QPSK	1	214	19.27	19.32	19.25		
40	QPSK	108	0	19.26	19.34	19.27	21.0	0.0
40	QPSK	108	54	19.40	19.44	19.23	21.0	0.0
40	QPSK	108	108	19.21	19.39	19.32		
40	QPSK	216	0	19.34	19.42	19.40	21.0	0.0
40	16QAM	1	1	19.20	19.37	19.27	21.0	0.0
40	64QAM	1	1	19.26	19.35	19.29	21.0	0.0
40	256QAM	1	1	19.40	19.48	19.38	20.0	1.0
Channel				345000		353000		
Frequency (MHz)				1726		1765		
30	QPSK	1	1	19.36	19.36	19.38	21.0	0.0
Channel				344000		354000		
Frequency (MHz)				1720		1770		
20	QPSK	1	1	19.36	19.35	19.34	21.0	0.0
Channel				343500		354500		
Frequency (MHz)				1717.5		1772.5		
15	QPSK	1	1	19.36	19.42	19.38	21.0	0.0
Channel				343000		355000		
Frequency (MHz)				1715		1775		
10	QPSK	1	1	19.29	19.37	19.38	21.0	0.0
Channel				342500		355500		
Frequency (MHz)				1712.5		1777.5		
5	QPSK	1	1	19.36	19.44	19.34	21.0	0.0

n70 Modem B Ant2								
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				340500				
Frequency (MHz)				1702.5				
15	PI/2 BPSK	1	1		19.23			
15	PI/2 BPSK	1	40		19.15		21.0	0.0
15	PI/2 BPSK	1	77		19.24			
15	PI/2 BPSK	36	0		19.19		21.0	0.0
15	PI/2 BPSK	36	22		19.25		21.0	0.0
15	PI/2 BPSK	36	43		19.17		21.0	0.0
15	PI/2 BPSK	72	0		19.19			
15	QPSK	1	1		19.27			
15	QPSK	1	40		19.12		21.0	0.0
15	QPSK	1	77		19.12			
15	QPSK	36	0		19.10		21.0	0.0
15	QPSK	36	22		19.20		21.0	0.0
15	QPSK	36	43		19.17			
15	QPSK	72	0		19.22		21.0	0.0
15	16QAM	1	1		19.17		21.0	0.0
15	64QAM	1	1		19.16		21.0	0.0
15	256QAM	1	1		19.26		20.0	1.0
Channel				340000		341000		
Frequency (MHz)				1700		1705		
10	QPSK	1	1	19.13	19.15	19.26	21.0	0.0
Channel				339500		341500		
Frequency (MHz)				1697.5		1707.5		
5	QPSK	1	1	19.14	19.18	19.16	21.0	0.0

PC2/3 n38 Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2595.02	2595	2599.98			
Frequency (MHz)									
40	P2 BPSK	1	1	19.16	19.19	19.25		21.0	0.0
40	P2 BPSK	1	53	19.12	19.25	19.12			
40	P2 BPSK	1	104	19.12	19.26	19.21			
40	P2 BPSK	50	0	19.07	19.29	19.07	21.0	0.0	
40	P2 BPSK	50	28	19.21	19.17	19.16	21.0	0.0	
40	P2 BPSK	50	56	19.16	19.30	19.22	21.0	0.0	
40	P2 BPSK	100	0	19.25	19.16	19.17	21.0	0.0	
40	QPSK	1	1	19.15	19.32	19.16			
40	QPSK	1	53	19.09	19.20	19.05	21.0	0.0	
40	QPSK	1	104	19.26	19.22	19.19			
40	QPSK	50	0	19.05	19.23	19.14	21.0	0.0	
40	QPSK	50	28	19.08	19.28	19.14	21.0	0.0	
40	QPSK	50	56	19.10	19.21	19.16	21.0	0.0	
40	QPSK	100	0	19.15	19.16	19.12			
40	16QAM	1	1	19.18	19.16	19.08	21.0	0.0	
40	64QAM	1	1	19.24	19.25	19.11	21.0	0.0	
40	256QAM	1	1	17.59	17.79	17.76	19.5	1.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	19.32	19.26	19.15	21.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2599	2595	2610			
20	QPSK	1	1	19.27	19.24	19.11	21.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.26	19.30	19.13	21.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2576.02	2595	2614.98			
10	QPSK	1	1	19.23	19.24	19.12	21.0	0.0	

PC2/3 n41 Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	528000			
Frequency (MHz)				2544.01	2562.99	2540			
100	P2 BPSK	1	1	19.31	19.31	19.35		21.0	0.0
100	P2 BPSK	1	137	19.26	19.43	19.29			
100	P2 BPSK	1	271	19.23	19.44	19.33			
100	P2 BPSK	135	0	19.29	19.37	19.25	21.0	0.0	
100	P2 BPSK	135	69	19.35	19.32	19.27	21.0	0.0	
100	P2 BPSK	135	138	19.33	19.40	19.34			
100	P2 BPSK	270	0	19.34	19.34	19.29	21.0	0.0	
100	QPSK	1	1	19.29	19.46	19.34			
100	QPSK	1	137	19.30	19.39	19.26	21.0	0.0	
100	QPSK	1	271	19.38	19.33	19.37			
100	QPSK	135	0	19.23	19.34	19.30	21.0	0.0	
100	QPSK	135	69	19.25	19.39	19.26	21.0	0.0	
100	QPSK	135	138	19.32	19.32	19.28			
100	QPSK	270	0	19.30	19.33	19.26	21.0	0.0	
100	16QAM	1	1	19.39	19.32	19.24	21.0	0.0	
100	64QAM	1	1	19.38	19.45	19.27	21.0	0.0	
100	256QAM	1	1	17.78	17.96	17.93	19.5	1.5	
Channel				508000	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98			
90	QPSK	1	1	19.18	19.24	19.18	21.0	0.0	
Channel				507204	518598	529996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.98			
80	QPSK	1	1	19.27	19.34	19.30	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.34	19.39	19.37	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.25	19.36	19.25	21.0	0.0	
Channel				504200	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.34	19.47	19.32	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2514.01	2592.99	2670			
40	QPSK	1	1	19.33	19.35	19.24	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.35	19.36	19.36	21.0	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.36	19.32	19.32	21.0	0.0	

n48 FCC Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				3570	3624.99	3679.98			
40	P2 BPSK	1	1	15.44	15.59	15.37			
40	P2 BPSK	1	53	15.41	15.43	15.37	17.0	0.0	
40	P2 BPSK	1	104	15.37	15.50	15.39			
40	P2 BPSK	50	0	15.27	15.16	14.95	16.5	0.5	
40	P2 BPSK	50	28	15.48	15.60	15.42	17.0	0.0	
40	P2 BPSK	50	56	15.10	15.27	14.95	16.5	0.5	
40	P2 BPSK	100	0	15.17	15.33	14.99			
40	QPSK	1	1	15.62	15.63	15.41			
40	QPSK	1	53	15.50	15.55	15.40	17.0	0.0	
40	QPSK	1	104	15.52	15.56	15.36			
40	QPSK	50	0	14.62	14.71	14.60	16.0	1.0	
40	QPSK	50	28	15.56	15.58	15.46	17.0	0.0	
40	QPSK	50	56	14.68	14.54	14.46	16.0	1.0	
40	QPSK	100	0	14.77	14.76	14.61			
40	16QAM	1	1	14.61	14.72	14.64	16.0	1.0	
40	64QAM	1	1	13.17	13.14	12.95	14.5	2.5	
40	256QAM	1	1	11.07	11.14	11.09	12.5	4.5	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	15.58	15.58	15.31	17.0	0.0	
Channel				630100	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	15.52	15.54	15.34	17.0	0.0	

PC3/PC2 Part27O n77 Modem B Ant2									
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	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PQ2 BPSK	1	1	22.34	22.31	22.30		24.0	0.0
100	PQ2 BPSK	1	137	22.11	22.17	22.24			
100	PQ2 BPSK	1	271	22.11	22.04	22.04			
100	PQ2 BPSK	135	0	22.45	22.45	22.36	24.0		
100	PQ2 BPSK	135	69	22.23	22.22	22.23	24.0	0.0	
100	PQ2 BPSK	135	138	22.43	22.39	22.36			
100	PQ2 BPSK	270	0	22.26	22.21	22.21	24.0	0.0	
100	QPSK	1	1	22.51	22.53	22.45			
100	QPSK	1	137	22.06	22.17	22.12	24.0	0.0	
100	QPSK	1	271	22.10	22.16	22.17			
100	QPSK	135	0	22.16	22.21	22.16	24.0	0.0	
100	QPSK	135	69	22.25	22.32	22.31	24.0	0.0	
100	QPSK	135	138	22.51	22.12	22.09			
100	QPSK	270	0	22.22	22.28	22.17	24.0	0.0	
100	16QAM	1	1	22.37	22.40	22.40	24.0	0.0	
100	64QAM	1	1	22.41	22.43	22.50	24.0	0.0	
100	256QAM	1	1	20.41	20.26	20.41	22.0	2.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.21	22.24	22.18	24.0	0.0	
Channel				649334	656000	662000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.26	22.22	22.22	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.19	22.27	22.27	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.24	22.21	22.20	24.0	0.0	
Channel				648334	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.24	22.27	22.19	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.17	22.26	22.19	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.17	22.22	22.27	24.0	0.0	
Channel				647334	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.16	22.24	22.21	24.0	0.0	
Channel				647000	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.24	22.14	22.20	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.27	22.20	22.27	24.0	0.0	

PC3/PC2 Part27Q n77 Modem B Ant2									
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	PQ2 BPSK	1	1		22.07			24.0	0.0
100	PQ2 BPSK	1	137		22.01				
100	PQ2 BPSK	1	271		22.07				
100	PQ2 BPSK	135	0		22.21		24.0		
100	PQ2 BPSK	135	69		22.11		24.0	0.0	
100	PQ2 BPSK	135	138		22.10				
100	PQ2 BPSK	270	0		22.09		24.0	0.0	
100	QPSK	1	1		22.46				
100	QPSK	1	137		22.15		24.0	0.0	
100	QPSK	1	271		22.17				
100	QPSK	135	0		22.01		24.0	0.0	
100	QPSK	135	69		22.31		24.0	0.0	
100	QPSK	135	138		22.08		24.0	0.0	
100	QPSK	270	0		22.07				
100	16QAM	1	1		22.18		24.0	0.0	
100	64QAM	1	1		22.17		24.0	0.0	
100	256QAM	1	1		20.19		22.0	2.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.29	22.32	22.28	24.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	22.35	22.40	22.33	24.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.42	22.29	22.37	24.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.33	22.29	22.36	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	22.31	22.29	22.40	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.34	22.34	22.35	24.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.38	22.31	22.28	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.32	22.27	22.40	24.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	22.35	22.35	22.40	24.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.37	22.35	22.30	24.0	0.0	

PC3/PC2 Part27O n78 Modem B Ant2									
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					
100	PI2 BPSK	1	1		22.18			24.0	0.0
100	PI2 BPSK	1	137		22.14				
100	PI2 BPSK	1	271		22.18				
100	PI2 BPSK	135	0		22.12		24.0		
100	PI2 BPSK	135	69		22.02		24.0	0.0	0.0
100	PI2 BPSK	135	135		22.13	135	24.0	0.0	0.0
100	PI2 BPSK	270	0		22.17		24.0	0.0	0.0
100	QPSK	1	1		22.30				
100	QPSK	1	137		22.26		24.0	0.0	0.0
100	QPSK	1	271		22.08				
100	QPSK	135	0		22.08		24.0	0.0	0.0
100	QPSK	135	69		22.12		24.0	0.0	0.0
100	QPSK	135	135		22.11		24.0	0.0	0.0
100	QPSK	270	0		22.27				
100	16QAM	1	1		22.24		24.0	0.0	0.0
100	64QAM	1	1		22.06		24.0	0.0	0.0
100	256QAM	1	1		20.28		22.0	2.0	2.0
Channel				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.11	22.14	22.15	24.0	0.0
Channel				64834	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3748.01	3750	3760.02			
80	QPSK	1	1		22.14	22.15	22.10	24.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.11	22.11	22.06	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.20	22.10	22.07	24.0	0.0
Channel				631351	633000	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		22.15	22.25	22.06	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.11	22.11	22.07	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		22.13	22.24	22.18	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3760.02			
20	QPSK	1	1		22.16	22.22	22.17	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.51			
15	QPSK	1	1		22.12	22.18	22.07	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3760			
10	QPSK	1	1		22.15	22.23	22.16	24.0	0.0

PC3/PC2 Part27Q n78 Modem B Ant2									
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)				3500.01					
100	PI2 BPSK	1	1		22.17		24.0	0.0	
100	PI2 BPSK	1	137		22.09				
100	PI2 BPSK	1	271		22.13				
100	PI2 BPSK	135	0		22.06				
100	PI2 BPSK	135	69		22.04		24.0		
100	PI2 BPSK	135	135		22.14		24.0		
100	PI2 BPSK	270	0		22.14		24.0		
100	QPSK	1	1		22.28				
100	QPSK	1	137		22.16		24.0		
100	QPSK	1	271		22.17				
100	QPSK	135	0		22.21		24.0		
100	QPSK	135	69		22.02		24.0		
100	QPSK	135	135		22.01		24.0		
100	QPSK	270	0		22.02				
100	16QAM	1	1		22.18		24.0		
100	64QAM	1	1		22.18		24.0		
100	256QAM	1	1		20.17		22.0	2.0	2.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		22.12	22.16	22.24	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		22.23	22.10	22.10	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		22.14	22.15	22.16	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3505.02			
60	QPSK	1	1		22.16	22.13	22.22	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		22.16	22.17	22.19	24.0	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		22.20	22.15	22.09	24.0	0.0
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		22.20	22.11	22.15	24.0	0.0
Channel				630668	633334	637000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		22.21	22.16	22.21	24.0	0.0
Channel				630334	633334	637334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		22.13	22.21	22.16	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		22.21	22.21	22.22	24.0	0.0

n2 Modem C Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1860	1860	
20	PI2 BPSK	1	1	21.68	21.83	21.62	23.5
20	PI2 BPSK	1	53	21.63	21.78	21.64	23.5
20	PI2 BPSK	1	104	21.66	21.78	21.63	23.5
20	PI2 BPSK	56	9	21.41	21.42	21.25	23.0
20	PI2 BPSK	50	28	21.70	21.81	21.67	23.5
20	PI2 BPSK	50	56	21.38	21.45	21.24	23.0
20	PI2 BPSK	100	0	21.39	21.52	21.25	23.0
20	QPSK	1	1	21.85	21.90	21.87	23.5
20	QPSK	1	53	21.79	21.89	21.58	23.5
20	QPSK	1	104	21.63	21.82	21.59	23.5
20	QPSK	50	0	20.86	20.92	20.77	22.5
20	QPSK	50	28	21.84	21.89	21.68	23.5
20	QPSK	50	56	20.91	20.78	20.77	22.5
20	QPSK	100	0	20.87	20.94	20.83	22.5
20	16QAM	1	1	20.95	21.00	20.80	22.5
20	64QAM	1	1	19.29	19.38	19.20	21.0
20	256QAM	1	1	17.37	17.40	17.26	19.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1880	1902.5	MPR (dB)
15	QPSK	1	1	21.71	21.74	21.76	23.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1905	MPR (dB)
10	QPSK	1	1	21.73	21.78	21.80	23.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1907.5	MPR (dB)
5	QPSK	1	1	21.73	21.76	21.76	23.5

n5 Modem C Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166000	167300	167600	
Frequency (MHz)				834	836.5	836	
20	PI2 BPSK	1	1	22.62	22.72	22.64	24.5
20	PI2 BPSK	1	53	22.58	22.62	22.51	24.5
20	PI2 BPSK	1	104	22.62	22.62	22.56	24.5
20	PI2 BPSK	50	0	22.36	22.36	22.29	24.0
20	PI2 BPSK	50	28	22.59	22.81	22.61	24.5
20	PI2 BPSK	50	56	22.33	22.27	22.14	24.0
20	PI2 BPSK	100	0	22.30	22.52	22.20	24.0
20	QPSK	1	1	22.67	22.90	22.83	24.5
20	QPSK	1	53	22.69	22.63	22.58	24.5
20	QPSK	1	104	22.69	22.69	22.70	24.5
20	QPSK	50	0	21.83	21.87	21.77	23.5
20	QPSK	50	28	22.90	22.90	22.59	24.5
20	QPSK	50	56	21.75	21.77	21.61	23.5
20	QPSK	100	0	21.77	21.78	21.73	23.5
20	16QAM	s	1	21.85	22.04	21.68	23.5
20	64QAM	1	1	20.26	20.30	20.12	22.0
20	256QAM	1	1	18.41	18.29	18.17	20.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	MPR (dB)
15	QPSK	1	1	22.82	22.83	22.79	24.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	MPR (dB)
10	QPSK	1	1	22.81	22.85	22.83	24.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	MPR (dB)
5	QPSK	1	1	22.84	22.82	22.84	24.5

n7 Modem C Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2500	2535	2560	
40	PI2 BPSK	1	1	18.63	18.79	18.58	20.5
40	PI2 BPSK	1	108	18.64	18.73	18.66	20.5
40	PI2 BPSK	1	214	18.66	18.76	18.70	20.5
40	PI2 BPSK	108	0	18.66	18.74	18.64	20.5
40	PI2 BPSK	108	54	18.72	18.65	18.66	20.5
40	PI2 BPSK	108	108	18.75	18.64	18.60	20.5
40	PI2 BPSK	216	0	18.77	18.76	18.71	20.5
40	QPSK	1	1	18.65	18.80	18.70	20.5
40	QPSK	1	108	18.72	18.75	18.67	20.5
40	QPSK	1	214	18.75	18.73	18.67	20.5
40	QPSK	108	0	18.76	18.71	18.69	20.5
40	QPSK	108	54	18.65	18.77	18.67	20.5
40	QPSK	108	108	18.75	18.66	18.59	20.5
40	QPSK	216	0	18.75	18.76	18.61	20.5
40	16QAM	1	1	18.66	18.70	18.65	20.5
40	64QAM	1	1	18.76	18.66	18.72	20.5
40	256QAM	1	1	17.26	17.19	17.16	19.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	MPR (dB)
30	QPSK	1	1	18.74	18.67	18.63	20.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	MPR (dB)
25	QPSK	1	1	18.67	18.70	18.61	20.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	MPR (dB)
20	QPSK	1	1	18.75	18.65	18.72	20.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	MPR (dB)
15	PI2 BPSK	1	1	18.65	18.67	18.62	20.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	MPR (dB)
10	QPSK	1	1	18.76	18.64	18.64	20.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	MPR (dB)
5	QPSK	1	1	18.68	18.78	18.61	20.5

n12 Modem C Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI2 BPSK	1	1	22.72	22.76	22.76	24.5
15	PI2 BPSK	1	40	22.68	22.74	22.82	24.5
15	PI2 BPSK	1	77	22.72	22.83	22.63	24.5
15	PI2 BPSK	36	0	22.40	22.41	22.34	24.0
15	PI2 BPSK	36	22	22.73	22.87	22.66	24.5
15	PI2 BPSK	36	43	22.46	22.32	22.19	24.0
15	PI2 BPSK	75	0	22.37	22.54	22.32	24.0
15	QPSK	1	1	22.67	22.93	22.81	24.5
15	QPSK	1	40	22.80	22.77	22.68	24.5
15	QPSK	1	77	22.83	22.76	22.72	24.5
15	QPSK	36	0	21.99	21.93	21.78	23.5
15	QPSK	36	22	22.96	22.96	22.73	24.5
15	QPSK	36	43	21.93	21.85	21.69	23.5
15	QPSK	75	0	21.85	21.89	21.77	23.5
15	16QAM	1	1	21.85	22.11	21.78	23.5
15	64QAM	1	1	20.22	20.41	20.13	22.0
15	256QAM	1	1	18.44	18.37	18.37	20.0
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	MPR (dB)
10	QPSK	1	1	22.78	22.84	22.80	24.5
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	MPR (dB)
5	QPSK	1	1	22.70	22.91	22.84	24.5

n13 Modem C Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				156450			
Frequency (MHz)				740			
10	PI2 BPSK	1	1	22.56			
10	PI2 BPSK	1	26	22.38		24.0	0.0
10	PI2 BPSK	1	50	22.38			
10	PI2 BPSK	25	0	21.87		23.5	0.5
10	PI2 BPSK	25	14	22.42		24.0	0.0
10	PI2 BPSK	25	27	22.20		23.5	0.5
10	PI2 BPSK	50	0	22.09			
10	QPSK	1	1	22.07			
10	QPSK	1	26	22.55		24.0	0.0
10	QPSK	1	50	22.25			
10	QPSK	25	0	21.40		23.0	1.0
10	QPSK	25	14	22.35		24.0	0.0
10	QPSK	25	27	21.39		23.0	1.0
10	QPSK	50	0	21.54			
10	16QAM	1	1	21.50		23.0	1.0
10	64QAM	1	1	19.98		21.5	2.5
10	256QAM	1	1	18.22		19.5	4.5
Channel				155900	156400	156900	
Frequency (MHz)				739.5	742	744.5	
5	QPSK	1	1	22.60	22.66	22.59	24.0

n14 Modem C Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				156600			
Frequency (MHz)				743			
10	PI2 BPSK	1	1	22.92			
10	PI2 BPSK	1	26	22.72		24.5	0.0
10	PI2 BPSK	1	50	22.77			
10	PI2 BPSK	25	0	22.32		24.0	0.5
10	PI2 BPSK	25	14	22.74		24.5	0.0
10	PI2 BPSK	25	27	22.64		24.0	0.5
10	PI2 BPSK	50	0	22.40			
10	QPSK	1	1	23.06			
10	QPSK	1	26	22.96		24.5	0.0
10	QPSK	1	50	22.63			
10	QPSK	25	0	21.79		23.5	1.0
10	QPSK	25	14	22.59		24.5	0.0
10	QPSK	25	27	21.84		23.5	1.0
10	QPSK	50	0	21.91			
10	16QAM	1	1	21.79		23.5	1.0
10	64QAM	1	1	20.55		22.0	2.5
10	256QAM	1	1	18.49		20.0	4.5
Channel				156100	156600	156100	
Frequency (MHz)				740.5	743	746.5	
5	QPSK	1	1	22.90	22.96	22.89	24.5

n25 Modem C Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				374000	376000	378000	
Frequency (MHz)				1800	1825	1850	
40	PI2 BPSK	1	1	21.80	21.86	21.66	
40	PI2 BPSK	1	108	21.69	21.66	21.68	23.5
40	PI2 BPSK	1	214	21.66	21.66	21.67	
40	PI2 BPSK	108	0	21.46	21.49	21.27	23.0
40	PI2 BPSK	108	54	21.66	21.87	21.65	23.5
40	PI2 BPSK	108	108	21.29	21.43	21.28	23.0
40	PI2 BPSK	216	0	21.32	21.54	21.30	
40	QPSK	1	1	21.86	21.92	21.80	23.5
40	QPSK	1	108	21.72	21.80	21.66	23.5
40	QPSK	1	214	21.67	21.82	21.59	
40	QPSK	108	0	20.98	20.88	20.78	22.5
40	QPSK	108	54	21.87	21.68	21.68	23.5
40	QPSK	108	108	20.88	20.91	20.74	22.5
40	QPSK	216	0	20.93	20.94	20.82	
40	16QAM	1	1	20.91	20.98	20.80	22.5
40	64QAM	1	1	19.43	19.47	19.17	21.0
40	256QAM	1	1	17.39	17.47	17.29	19.0
Channel				373000	376000	380000	
Frequency (MHz)				1805	1825	1900	
30	QPSK	1	1	21.79	21.86	21.76	23.5
Channel				372500	376000	380500	
Frequency (MHz)				1802.5	1825	1902.5	
25	QPSK	1	1	21.77	21.79	21.73	23.5
Channel				372000	376000	381000	
Frequency (MHz)				1800	1825	1900	
20	QPSK	1	1	21.74	21.84	21.75	23.5
Channel				371500	376000	381500	
Frequency (MHz)				1807.5	1825	1907.5	
15	QPSK	1	1	21.75	21.86	21.75	23.5
Channel				371000	376000	382000	
Frequency (MHz)				1805	1825	1910	
10	QPSK	1	1	21.77	21.87	21.81	23.5
Channel				370500	376000	382500	
Frequency (MHz)				1802.5	1825	1912.5	
5	QPSK	1	1	21.74	21.85	21.75	23.5

n26 Modem C Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				164400	166000	167600	
Frequency (MHz)				824	831.5	839	
20	PI2 BPSK	1	1	22.66	22.60	22.66	
20	PI2 BPSK	1	53	22.66	22.63	22.65	24.5
20	PI2 BPSK	1	104	22.71	22.69	22.80	
20	PI2 BPSK	50	0	22.30	22.27	22.33	24.0
20	PI2 BPSK	50	26	22.60	22.60	22.75	24.5
20	PI2 BPSK	50	56	22.27	22.26	22.35	24.0
20	PI2 BPSK	100	0	22.22	22.15	22.52	
20	QPSK	1	1	22.73	22.96	22.92	
20	QPSK	1	53	22.74	22.52	22.75	24.5
20	QPSK	1	104	22.72	22.95	22.72	
20	QPSK	50	0	21.84	21.81	21.78	23.5
20	QPSK	50	26	22.60	22.64	22.66	24.5
20	QPSK	50	56	21.75	21.59	21.75	23.5
20	QPSK	100	0	21.78	21.77	21.84	
20	16QAM	1	1	21.79	21.76	22.01	23.5
20	64QAM	1	1	20.23	20.17	20.30	22.5
20	256QAM	1	1	18.37	18.31	18.32	20.0
Channel				164300	166300	168300	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	22.69	22.82	22.88	24.5
Channel				163800	166300	168800	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	1	22.68	22.91	22.87	24.5
Channel				163300	166300	169300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	22.68	22.90	22.91	24.5

n30 Modem C 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				462000					
Frequency (MHz)				2310					
10	PI2 BPSK	1	1		12.92				
10	PI2 BPSK	1	26		12.78		14.5	0.0	
10	PI2 BPSK	1	50		12.58				
10	PI2 BPSK	25	0		12.70		14.5	0.0	
10	PI2 BPSK	25	14		12.90		14.5	0.0	
10	PI2 BPSK	25	27		12.69				
10	PI2 BPSK	50	0		12.71		14.5	0.0	
10	QPSK	1	1		13.14				
10	QPSK	1	26		12.85		14.5	0.0	
10	QPSK	1	50		12.92				
10	QPSK	25	0		13.08		14.5	0.0	
10	QPSK	25	14		12.85		14.5	0.0	
10	QPSK	25	27		12.94				
10	QPSK	50	0		12.86		14.5	0.0	
10	16QAM	1	1		12.94		14.5	0.0	
10	64QAM	1	1		12.96		14.5	0.0	
10	256QAM	1	1		12.79		14.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	13.03	13.09	12.89	14.5	0.0	

n66 Modem C 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	350000		
Frequency (MHz)				1920		1945	1960		
40	PI2 BPSK	1	1	19.12	19.23	19.20			
40	PI2 BPSK	1	108	19.21	19.22	19.14	21.0	0.0	
40	PI2 BPSK	1	214	19.19	19.30	19.27			
40	PI2 BPSK	108	0	19.14	19.23	19.16	21.0	0.0	
40	PI2 BPSK	108	54	19.20	19.21	19.21	21.0	0.0	
40	PI2 BPSK	108	108	19.14	19.20	19.11			
40	PI2 BPSK	216	0	19.22	19.30	19.36			
40	QPSK	1	1	19.39	19.42	19.41			
40	QPSK	1	108	19.18	19.17	19.12	21.0	0.0	
40	QPSK	1	214	19.15	19.22	19.22			
40	QPSK	108	0	19.13	19.16	19.13	21.0	0.0	
40	QPSK	108	54	19.26	19.30	19.12	21.0	0.0	
40	QPSK	108	108	19.17	19.18	19.20			
40	QPSK	216	0	19.24	19.36	19.34			
40	16QAM	1	1	19.16	19.18	19.16	21.0	0.0	
40	64QAM	1	1	19.17	19.22	19.21	21.0	0.0	
40	256QAM	1	1	19.30	19.36	19.19	20.0	1.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1925	1945	1965			
30	QPSK	1	1	19.14	19.21	19.14	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1920	1945	1970			
20	QPSK	1	1	19.20	19.20	19.13	21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1917.5	1945	1972.5			
15	QPSK	1	1	19.18	19.23	19.21	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1915	1945	1975			
10	QPSK	1	1	19.12	19.17	19.16	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1912.5	1945	1977.5			
5	QPSK	1	1	19.20	19.24	19.18	21.0	0.0	

n71 Modem C 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				134600		136100	137600		
Frequency (MHz)				872		880.5	888		
20	PI2 BPSK	1	1	22.73	22.83	22.58			
20	PI2 BPSK	1	53	22.76	22.78	22.70	24.5	0.0	
20	PI2 BPSK	1	104	22.61	22.85	22.79			
20	PI2 BPSK	50	0	22.32	22.51	22.32	24.0	0.5	
20	PI2 BPSK	50	26	22.74	22.69	22.72	24.5	0.0	
20	PI2 BPSK	50	56	22.36	22.36	22.23			
20	PI2 BPSK	100	0	22.20	22.53	22.19	24.0	0.5	
20	QPSK	1	1	22.90	22.94	22.90			
20	QPSK	1	53	22.86	22.72	22.58	24.5	0.0	
20	QPSK	1	104	22.76	22.80	22.87			
20	QPSK	50	0	22.08	21.82	21.84	23.5	1.0	
20	QPSK	50	26	22.82	22.87	22.86	24.5	0.0	
20	QPSK	50	56	21.72	21.81	21.84			
20	QPSK	100	0	21.76	21.86	21.74	23.5	1.0	
20	16QAM	1	1	21.90	22.06	21.85	23.5	1.0	
20	64QAM	1	1	20.24	20.30	20.17	22.0	2.5	
20	256QAM	1	1	19.39	19.43	19.39	20.0	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				870.5	880.5	890.5			
15	QPSK	1	1	22.78	22.87	22.78	24.5	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				868	880.5	893			
10	QPSK	1	1	22.84	22.87	22.87	24.5	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				865.5	880.5	895.5			
5	QPSK	1	1	22.79	22.87	22.86	24.5	0.0	

PC2/3 n38 Modem C Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.26	19.46	19.34	21.0	0.0	
40	PI/2 BPSK	1	53	19.37	19.49	19.33			
40	PI/2 BPSK	1	104	19.17	19.43	19.34	21.0	0.0	
40	PI/2 BPSK	50	0	19.30	19.45	19.20			
40	PI/2 BPSK	50	26	19.23	19.39	19.36	21.0	0.0	
40	PI/2 BPSK	50	56	19.16	19.47	19.21			
40	PI/2 BPSK	100	0	19.25	19.38	19.27	21.0	0.0	
40	QPSK	1	1	19.25	19.51	19.31			
40	QPSK	1	53	19.29	19.29	19.27	21.0	0.0	
40	QPSK	1	104	19.31	19.33	19.37			
40	QPSK	50	0	19.30	19.43	19.33	21.0	0.0	
40	QPSK	50	26	19.26	19.45	19.32			
40	QPSK	50	56	19.20	19.38	19.35	21.0	0.0	
40	QPSK	100	0	19.30	19.44	19.37			
40	16QAM	1	1	19.30	19.50	19.26	21.0	0.0	
40	64QAM	1	1	19.28	19.34	19.33			
40	256QAM	1	1	17.84	18.05	17.93	19.5	1.5	
Channel				517002	519000	520998			
Frequency (MHz)				2583.01	2595	2604.99	Tune-up limit (dBm) MPR (dB)		
30	QPSK	1	1	19.26	19.44	19.38	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610	Tune-up limit (dBm) MPR (dB)		
20	QPSK	1	1	19.31	19.40	19.46	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	Tune-up limit (dBm) MPR (dB)		
15	QPSK	1	1	19.29	19.42	19.40	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98	Tune-up limit (dBm) MPR (dB)		
10	QPSK	1	1	19.25	19.40	19.43	21.0	0.0	
Channel				514500	519000	523500			

PC2/3 n41 Modem C Ant0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. [dBm]	Power Middle Ch. / Freq. [dBm]	Power High Ch. / Freq. [dBm]	Tune-up limit (dBm)	MPR (dB)			
Channel				502002	518598	528900					
Frequency (MHz)				2546.01	2592.99	2640					
100	PI/2 BPSK	1	1	19.27	19.36	19.27	21.0	0.0			
100	PI/2 BPSK	1	137	19.28	19.41	19.28					
100	PI/2 BPSK	1	271	19.19	19.38	19.26	21.0	0.0			
100	PI/2 BPSK	135	0	19.25	19.40	19.22					
100	PI/2 BPSK	135	69	19.17	19.30	19.32	21.0	0.0			
100	PI/2 BPSK	135	138	19.16	19.42	19.20					
100	PI/2 BPSK	270	0	19.17	19.32	19.25	21.0	0.0			
100	QPSK	1	1	19.17	19.43	19.30					
100	QPSK	1	137	19.31	19.29	19.21	21.0	0.0			
100	QPSK	1	271	19.31	19.32	19.33					
100	QPSK	135	0	19.26	19.35	19.25	21.0	0.0			
100	QPSK	135	69	19.20	19.36	19.27					
100	QPSK	135	138	19.18	19.31	19.32	21.0	0.0			
100	QPSK	270	0	19.21	19.35	19.31					
100	16QAM	1	1	19.25	19.39	19.25	21.0	0.0			
100	64QAM	1	1	19.17	19.30	19.31					
100	256QAM	1	1	17.83	17.96	17.83	19.5	1.5			
Channel				508200	518598	529998				Tune-up limit (dBm)	
Frequency (MHz)				2541	2592.99	2644.98					
90	QPSK	1	1	19.16	19.35	19.30	21.0	0.0			
Channel				507204	518598	529998				Tune-up limit (dBm)	
Frequency (MHz)				2536.02	2592.99	2649.99					
80	QPSK	1	1	19.24	19.39	19.19	21.0	0.0			
Channel				506202	518598	531000				Tune-up limit (dBm)	
Frequency (MHz)				2531.01	2592.99	2655					
70	QPSK	1	1	19.24	19.31	19.23	21.0	0.0			
Channel				505200	518598	531998				Tune-up limit (dBm)	
Frequency (MHz)				2526	2592.99	2659.98					
60	QPSK	1	1	19.21	19.41	19.21	21.0	0.0			
Channel				504204	518598	532998				Tune-up limit (dBm)	
Frequency (MHz)				2521.02	2592.99	2664.99					
50	QPSK	1	1	19.21	19.31	19.19	21.0	0.0			
Channel				503202	518598	534000				Tune-up limit (dBm)	
Frequency (MHz)				2516.01	2592.99	2670					
40	QPSK	1	1	19.22	19.33	19.21	21.0	0.0			
Channel				502200	518598	534998				Tune-up limit (dBm)	
Frequency (MHz)				2511	2592.99	2674.98					
30	QPSK	1	1	19.28	19.36	19.19	21.0	0.0			
Channel				501204	518598	535998				Tune-up limit (dBm)	
Frequency (MHz)				2506.02	2592.99	2679.99					
20	QPSK	1	1	19.17	19.28	19.29	21.0	0.0			
Channel				500200	518598	536998				Tune-up limit (dBm)	

n2 Modem C Ant2									
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				1860	1880	1900			
Frequency (MHz)									
20	PI/2 BPSK	1	1	22.61	22.60	22.50			
20	PI/2 BPSK	1	53	22.49	22.56	22.25	23.5	0.0	
20	PI/2 BPSK	1	104	22.41	22.65	22.44			
20	PI/2 BPSK	50	0	22.05	21.95	22.10	23.0	0.5	
20	PI/2 BPSK	50	28	22.64	22.51	22.48	23.5	0.0	
20	PI/2 BPSK	50	56	22.30	22.47	22.01			
20	PI/2 BPSK	100	0	22.01	22.48	21.87	23.0	0.5	
20	QPSK	1	1	22.67	22.68	22.60			
20	QPSK	1	53	22.48	22.63	22.56	23.5	0.0	
20	QPSK	1	104	22.43	22.53	22.42			
20	QPSK	50	0	21.36	21.39	21.54	22.5	1.0	
20	QPSK	50	28	22.66	22.67	22.56	23.5	0.0	
20	QPSK	50	56	21.70	21.70	21.70			
20	QPSK	100	0	21.72	21.77	21.46	22.5	1.0	
20	16QAM	1	1	21.76	21.75	21.65	22.5	1.0	
20	64QAM	1	1	20.16	19.96	19.85	21.0	2.5	
20	256QAM	1	1	18.20	18.34	18.27	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	22.56	22.63	22.52	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.59	22.55	22.57	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.56	22.64	22.53	23.5	0.0	

n7 Modem C Ant2									
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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	19.54	19.59	19.46			
40	PI/2 BPSK	1	108	19.48	19.48	19.44	20.5	0.0	
40	PI/2 BPSK	1	214	19.44	19.58	19.49			
40	PI/2 BPSK	108	0	19.49	19.48	19.44	20.5	0.0	
40	PI/2 BPSK	108	54	19.47	19.45	19.55	20.5	0.0	
40	PI/2 BPSK	108	108	19.49	19.50	19.57			
40	PI/2 BPSK	216	0	19.52	19.55	19.58	20.5	0.0	
40	QPSK	1	1	19.54	19.61	19.53			
40	QPSK	1	108	19.44	19.58	19.49	20.5	0.0	
40	QPSK	1	214	19.55	19.53	19.48			
40	QPSK	108	0	19.56	19.52	19.51	20.5	0.0	
40	QPSK	108	54	19.45	19.59	19.43	20.5	0.0	
40	QPSK	108	108	19.52	19.58	19.48			
40	QPSK	216	0	19.55	19.57	19.56	20.5	0.0	
40	16QAM	1	1	19.44	19.48	19.44	20.5	0.0	
40	64QAM	1	1	19.47	19.49	19.53	20.5	0.0	
40	256QAM	1	1	18.09	18.20	18.13	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.53	19.60	19.44	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.49	19.56	19.56	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	19.51	19.57	19.45	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	19.47	19.56	19.56	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.50	19.52	19.54	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.43	19.50	19.48	20.5	0.0	

n25 Modem C Ant2									
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				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	22.58	22.73	22.64			
40	PI/2 BPSK	1	108	22.60	22.65	22.33	23.5	0.0	
40	PI/2 BPSK	1	214	22.55	22.66	22.59			
40	PI/2 BPSK	108	0	22.20	22.12	22.23	23.0	0.5	
40	PI/2 BPSK	108	54	22.67	22.63	22.55	23.5	0.0	
40	PI/2 BPSK	108	108	22.34	22.53	22.17			
40	PI/2 BPSK	216	0	22.15	22.60	21.99	23.0	0.5	
40	QPSK	1	1	22.71	22.75	22.73			
40	QPSK	1	108	22.57	22.70	22.61	23.5	0.0	
40	QPSK	1	214	22.44	22.66	22.53			
40	QPSK	108	0	21.53	21.61	21.67	22.5	1.0	
40	QPSK	108	54	22.72	22.73	22.65	23.5	0.0	
40	QPSK	108	108	21.78	21.88	21.75			
40	QPSK	216	0	21.79	21.82	21.71	22.5	1.0	
40	16QAM	1	1	21.83	21.85	21.77	22.5	1.0	
40	64QAM	1	1	20.21	20.06	19.95	21.0	2.5	
40	256QAM	1	1	18.22	18.48	18.28	19.0	4.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.66	22.66	22.64	23.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.61	22.71	22.70	23.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.64	22.73	22.67	23.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.68	22.67	22.63	23.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.61	22.66	22.69	23.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.66	22.65	22.71	23.5	0.0	

n30 Modem C Ant2									
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				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		12.94		14.5	0.0	
10	PI/2 BPSK	1	25		12.80				
10	PI/2 BPSK	1	50		12.88				
10	PI/2 BPSK	25	0		12.85		14.5	0.0	
10	PI/2 BPSK	25	14		12.95		14.5	0.0	
10	PI/2 BPSK	25	27		12.86		14.5	0.0	
10	PI/2 BPSK	50	0		12.93		14.5	0.0	
10	QPSK	1	1		13.12		14.5	0.0	
10	QPSK	1	25		12.80				
10	QPSK	1	50		12.87				
10	QPSK	25	0		12.78		14.5	0.0	
10	QPSK	25	14		13.04		14.5	0.0	
10	QPSK	25	27		12.81		14.5	0.0	
10	QPSK	50	0		12.91		14.5	0.0	
10	16QAM	1	1		13.07		14.5	0.0	
10	64QAM	1	1		12.77		14.5	0.0	
10	256QAM	1	1		12.99		14.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	13.10	12.90	13.00	14.5	0.0	

n66 Modem C Ant2									
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	
Frequency (MHz)				1730		1745		1760	
40	PI/2 BPSK	1	1	10.23	10.29	10.25	21.0	0.0	
40	PI/2 BPSK	1	108	10.20	10.39	10.29			
40	PI/2 BPSK	1	214	10.26	10.40	10.29			
40	PI/2 BPSK	108	0	10.23	10.31	10.31	21.0	0.0	
40	PI/2 BPSK	108	54	10.31	10.27	10.28	21.0	0.0	
40	PI/2 BPSK	108	108	10.12	10.36	10.25	21.0	0.0	
40	PI/2 BPSK	216	0	10.24	10.41	10.26			
40	QPSK	1	1	10.42	10.55	10.50			
40	QPSK	1	108	10.27	10.27	10.30	21.0	0.0	
40	QPSK	1	214	10.29	10.27	10.27	21.0	0.0	
40	QPSK	108	0	10.28	10.25	10.28			
40	QPSK	108	54	10.38	10.42	10.19			
40	QPSK	108	108	10.31	10.25	10.29	21.0	0.0	
40	QPSK	216	0	10.33	10.41	10.38	21.0	0.0	
40	16QAM	1	1	10.32	10.27	10.23			
40	64QAM	1	1	10.22	10.23	10.27			
40	256QAM	1	1	10.39	10.47	10.36	20.0	1.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	10.22	10.36	10.29	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	10.22	10.38	10.32	21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	10.23	10.37	10.32	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	10.17	10.43	10.32	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	10.23	10.38	10.27	21.0	0.0	

n70 Modem C Ant2									
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				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		19.41		21.0	0.0	
15	PI/2 BPSK	1	40		19.40				
15	PI/2 BPSK	1	77		19.44				
15	PI/2 BPSK	36	0		19.41		21.0	0.0	
15	PI/2 BPSK	36	22		19.41		21.0	0.0	
15	PI/2 BPSK	36	43		19.40		21.0	0.0	
15	PI/2 BPSK	75	0		19.44				
15	QPSK	1	1		19.54				
15	QPSK	1	40		19.41		21.0	0.0	
15	QPSK	1	77		19.40				
15	QPSK	36	0		19.41				
15	QPSK	36	22		19.44		21.0	0.0	
15	QPSK	36	43		19.40		21.0	0.0	
15	QPSK	75	0		19.47				
15	16QAM	1	1		19.40				
15	64QAM	1	1		19.40		21.0	0.0	
15	256QAM	1	1		18.54		20.0	1.0	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	19.37	19.43	19.41	21.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	19.37	19.39	19.37	21.0	0.0	

PC2/3 n38 Modem C Ant2									
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			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	19.41	19.51	19.37			
40	PI2 BPSK	1	53	19.39	19.54	19.27	21.0	0.0	
40	PI2 BPSK	1	104	19.39	19.50	19.42			
40	PI2 BPSK	50	0	19.38	19.64	19.33	21.0	0.0	
40	PI2 BPSK	50	28	19.37	19.61	19.28	21.0	0.0	
40	PI2 BPSK	50	56	19.50	19.57	19.37	21.0	0.0	
40	PI2 BPSK	100	0	19.33	19.63	19.33			
40	QPSK	1	1	19.49	19.70	19.27			
40	QPSK	1	53	19.43	19.65	19.31	21.0	0.0	
40	QPSK	1	104	19.33	19.47	19.34			
40	QPSK	50	0	19.42	19.58	19.38	21.0	0.0	
40	QPSK	50	28	19.38	19.66	19.25	21.0	0.0	
40	QPSK	50	56	19.51	19.65	19.45	21.0	0.0	
40	QPSK	100	0	19.45	19.67	19.29			
40	16QAM	1	1	19.30	19.58	19.41	21.0	0.0	
40	64QAM	1	1	19.47	19.60	19.38	21.0	0.0	
40	256QAM	1	1	18.01	18.15	18.17	19.5	1.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.95			
30	QPSK	1	1	19.44	19.50	19.30	21.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2585	2610			
20	QPSK	1	1	19.48	19.53	19.46	21.0	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2585	2612.49			
15	QPSK	1	1	19.50	19.50	19.37	21.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2585	2614.98			
10	QPSK	1	1	19.53	19.57	19.44	21.0	0.0	

PC2/3 n41 Modem C Ant2									
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			
Frequency (MHz)				2546.01	2562.99	2560			
100	PI2 BPSK	1	1	19.61	19.71	19.55			
100	PI2 BPSK	1	137	19.52	19.73	19.44	21.0	0.0	
100	PI2 BPSK	1	271	19.56	19.72	19.53			
100	PI2 BPSK	135	0	19.49	19.76	19.44	21.0	0.0	
100	PI2 BPSK	135	69	19.57	19.75	19.47	21.0	0.0	
100	PI2 BPSK	135	138	19.64	19.71	19.55	21.0	0.0	
100	PI2 BPSK	270	0	19.54	19.73	19.44			
100	QPSK	1	1	19.60	19.65	19.44			
100	QPSK	1	137	19.63	19.62	19.46	21.0	0.0	
100	QPSK	1	271	19.54	19.69	19.52			
100	QPSK	135	0	19.58	19.69	19.53	21.0	0.0	
100	QPSK	135	69	19.60	19.61	19.44	21.0	0.0	
100	QPSK	135	138	19.63	19.75	19.58	21.0	0.0	
100	QPSK	270	0	19.62	19.66	19.44			
100	16QAM	1	5	19.49	19.68	19.55	21.0	0.0	
100	64QAM	1	1	19.58	19.78	19.47	21.0	0.0	
100	256QAM	1	1	18.18	18.34	18.31	19.5	1.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2544.98			
90	QPSK	1	1	19.63	19.67	19.58	21.0	0.0	
Channel				507204	518598	529996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2562.99	2549.98			
80	QPSK	1	1	19.51	19.71	19.47	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2562.99	2555			
70	QPSK	1	1	19.48	19.74	19.53	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2562.99	2559.98			
60	QPSK	1	1	19.64	19.80	19.57	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.02	2562.99	2544.99			
50	QPSK	1	1	19.49	19.67	19.45	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2570			
40	QPSK	1	1	19.53	19.80	19.44	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2574.98			
30	QPSK	1	1	19.59	19.80	19.53	21.0	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2579.99			
20	QPSK	1	1	19.62	19.72	19.44	21.0	0.0	

n48_FCC Modem C Ant2									
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				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	15.63	15.73	15.55			
40	PI2 BPSK	1	53	15.56	15.56	15.55	17.0	0.0	
40	PI2 BPSK	1	104	15.53	15.67	15.51			
40	PI2 BPSK	50	0	15.44	15.36	15.12	16.5	0.5	
40	PI2 BPSK	50	28	15.62	15.70	15.54	17.0	0.0	
40	PI2 BPSK	50	56	15.23	15.44	15.08	16.5	0.5	
40	PI2 BPSK	100	0	15.37	15.46	15.12			
40	QPSK	1	1	15.74	15.76	15.75			
40	QPSK	1	53	15.67	15.67	15.57	17.0	0.0	
40	QPSK	1	104	15.63	15.71	15.55			
40	QPSK	50	0	14.73	14.84	14.76	16.0	1.0	
40	QPSK	50	28	15.66	15.69	15.65	17.0	0.0	
40	QPSK	50	56	14.87	14.65	14.67	16.0	1.0	
40	QPSK	100	0	14.93	14.56	14.81			
40	16QAM	1	1	14.73	14.82	14.81	16.0	1.0	
40	64QAM	1	1	13.32	13.28	13.14	14.5	2.5	
40	256QAM	1	1	11.27	11.27	11.25	12.5	4.5	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	15.71	15.71	15.71	17.0	0.0	
Channel				631000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552	3624.99	3684.98			
10	QPSK	1	1	15.68	15.68	15.68	17.0	0.0	

PC3/PC2 Part270 n77 Modem C Ant2								
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				65000	65600	66200		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.26	22.20	22.15		
100	PI2 BPSK	1	137	22.22	22.15	22.24	24.0	0.0
100	PI2 BPSK	1	271	22.20	22.09	22.18		
100	PI2 BPSK	135	0	22.35	22.42	22.32	24.0	0.0
100	PI2 BPSK	135	69	22.30	22.24	22.21	24.0	0.0
100	PI2 BPSK	135	135	22.07	22.08	22.01		
100	PI2 BPSK	270	0	22.24	22.23	22.17	24.0	0.0
100	QPSK	1	1	22.33	22.46	22.34		
100	QPSK	1	137	22.25	22.21	22.09	24.0	0.0
100	QPSK	1	271	22.15	22.16	22.09		
100	QPSK	135	0	22.22	22.24	22.32	24.0	0.0
100	QPSK	135	69	22.20	22.25	22.20	24.0	0.0
100	QPSK	135	135	22.02	22.12	22.07		
100	QPSK	270	0	22.16	22.17	22.10	24.0	0.0
100	16QAM	1	1	21.61	21.56	21.50	23.0	1.0
100	64QAM	1	1	21.52	21.48	21.49	23.0	1.0
100	256QAM	1	1	19.68	19.71	19.63	21.5	2.5
Channel				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.21	22.12	22.09	24.0	0.0
Channel				64834	65000	65066	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.11	22.13	22.16	24.0	0.0
Channel				64800	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.12	22.21	22.08	24.0	0.0
Channel				64868	65000	66334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3960.01		
60	QPSK	1	1	22.08	22.15	22.20	24.0	0.0
Channel				64834	65000	66368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3722.01	3840	3950.02		
50	QPSK	1	1	22.07	22.22	22.17	24.0	0.0
Channel				64800	65000	66400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.09	22.12	22.19	24.0	0.0
Channel				64768	65000	66434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.09	22.09	22.10	24.0	0.0
Channel				64734	65000	66468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.18	22.14	22.20	24.0	0.0
Channel				647168	65000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.53	3840	3972.51		
15	QPSK	1	1	22.10	22.08	22.14	24.0	0.0
Channel				647000	65000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.22	22.09	22.11	24.0	0.0

PC3/PC2 Part27Q n77 Modem C Ant2								
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					63334			
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		22.42			
100	PI2 BPSK	1	137		22.10		24.0	0.0
100	PI2 BPSK	1	271		22.26			
100	PI2 BPSK	135	0		22.23		24.0	0.0
100	PI2 BPSK	135	69		22.26		24.0	0.0
100	PI2 BPSK	135	135		22.31			
100	PI2 BPSK	270	0		22.32		24.0	0.0
100	QPSK	1	1		22.36			
100	QPSK	1	137		22.23		24.0	0.0
100	QPSK	1	271		22.36			
100	QPSK	135	0		22.32		24.0	0.0
100	QPSK	135	69		22.51		24.0	0.0
100	QPSK	135	135		22.45		24.0	0.0
100	QPSK	270	0		22.32			
100	16QAM	1	1		22.56		23.0	1.0
100	64QAM	1	1		22.08		23.0	1.0
100	256QAM	1	1		20.42		21.5	2.5
Channel				633000	63334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.41	22.42	22.44	24.0	0.0
Channel				632668	63334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.63	3500.01	3510		
80	QPSK	1	1	22.44	22.43	22.40	24.0	0.0
Channel				632334	63334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.47	22.43	22.50	24.0	0.0
Channel				632000	63334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3505.02		
60	QPSK	1	1	22.39	22.48	22.40	24.0	0.0
Channel				631668	63334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3476.02	3500.01	3505		
50	QPSK	1	1	22.51	22.45	22.38	24.0	0.0
Channel				631334	63334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3508.01		
40	QPSK	1	1	22.47	22.54	22.42	24.0	0.0
Channel				631000	63334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3505.02		
30	QPSK	1	1	22.42	22.44	22.42	24.0	0.0
Channel				630668	63334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.62	3500.01	3505		
20	QPSK	1	1	22.53	22.51	22.51	24.0	0.0
Channel				630334	63334	636368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3503.52		
15	QPSK	1	1	22.44	22.40	22.42	24.0	0.0
Channel				630334	63334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3503.01		
10	QPSK	1	1	22.48	22.46	22.40	24.0	0.0

PC3/PC2 Part270 n78 Modem C Ant2									
BW (MHz)	Modulation	RB Size	RG 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		22.10		24.0	0.0	
100	PI2 BPSK	1	137		22.02				
100	PI2 BPSK	1	271		22.30				
100	PI2 BPSK	135	0		22.04		24.0	0.0	
100	PI2 BPSK	135	69		22.06		24.0	0.0	
100	PI2 BPSK	135	138		22.24		24.0	0.0	
100	PI2 BPSK	270	0		22.19				
100	QPSK	1	1		22.50				
100	QPSK	1	137		22.12		24.0	0.0	
100	QPSK	1	271		22.30				
100	QPSK	135	0		22.23		24.0	0.0	
100	QPSK	135	69		22.48		24.0	0.0	
100	QPSK	135	138		22.36		24.0	0.0	
100	QPSK	270	0		22.19				
100	16QAM	1	1		22.16		23.0	1.0	
100	64QAM	1	1		22.35		23.0	1.0	
100	256QAM	1	1		20.20		21.5	2.5	
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.39	22.35	22.43	24.0	0.0
Channel				649934	650000	650066	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3750	3760.99			
80	QPSK	1	1		22.33	22.42	22.29	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.33	22.36	22.40	24.0	0.0
Channel				648968	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3750.02	3750	3770.01			
60	QPSK	1	1		22.34	22.43	22.35	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3723.01	3750	3775.02			
50	QPSK	1	1		22.29	22.30	22.30	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.39	22.42	22.39	24.0	0.0
Channel				647968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		22.34	22.45	22.32	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3718.01	3750	3782.02			
20	QPSK	1	1		22.42	22.33	22.27	24.0	0.0
Channel				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.62	3750	3782.51			
15	QPSK	1	1		22.34	22.41	22.35	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.41	22.41	22.34	24.0	0.0

PC3/PC2 Part27Q n78 Modem C Ant2									
BW (MHz)	Modulation	RB Size	RG 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		22.31		24.0	0.0	
100	PI2 BPSK	1	137		22.04				
100	PI2 BPSK	1	271		22.25				
100	PI2 BPSK	135	0		22.27		24.0	0.0	
100	PI2 BPSK	135	69		22.41		24.0	0.0	
100	PI2 BPSK	135	138		22.30		24.0	0.0	
100	PI2 BPSK	270	0		22.27				
100	QPSK	1	1		22.46				
100	QPSK	1	137		22.30		24.0	0.0	
100	QPSK	1	271		22.27				
100	QPSK	135	0		22.38		24.0	0.0	
100	QPSK	135	69		22.47		24.0	0.0	
100	QPSK	135	138		22.46		24.0	0.0	
100	QPSK	270	0		22.29				
100	16QAM	1	1		22.48		23.0	1.0	
100	64QAM	1	1		22.29		23.0	1.0	
100	256QAM	1	1		20.32		21.5	2.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		22.44	22.42	22.38	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		22.44	22.33	22.44	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		22.36	22.36	22.30	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		22.35	22.30	22.39	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		22.44	22.30	22.44	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		22.44	22.31	22.44	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		22.35	22.37	22.30	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		22.34	22.41	22.41	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.51			
15	QPSK	1	1		22.42	22.31	22.33	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		22.40	22.42	22.30	24.0	0.0

n2 Modem D 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				37000	37600	38000			
Frequency (MHz)				1860	1860	1860			
20	PI2 BPSK	1	1	21.59	21.74	21.68			
20	PI2 BPSK	1	53	21.52	21.68	21.60	23.5	0.0	
20	PI2 BPSK	1	104	21.58	21.71	21.55			
20	PI2 BPSK	50	9	21.28	21.30	21.18	23.0	0.5	
20	PI2 BPSK	50	28	21.62	21.71	21.59	23.5	0.0	
20	PI2 BPSK	50	56	21.28	21.29	21.11	23.0	0.5	
20	PI2 BPSK	100	0	21.32	21.37	21.16			
20	QPSK	1	1	21.52	21.76	21.60			
20	QPSK	1	53	21.65	21.53	21.51	23.5	0.0	
20	QPSK	1	104	21.55	21.75	21.61			
20	QPSK	50	0	20.75	20.80	20.71	22.5	1.0	
20	QPSK	50	28	21.68	21.71	21.68	23.5	0.0	
20	QPSK	50	56	20.83	20.82	20.81	22.5	1.0	
20	QPSK	100	0	20.77	20.88	20.73			
20	16QAM	1	1	20.88	20.89	20.71	22.5	1.0	
20	64QAM	1	1	19.23	19.25	19.06	21.0	2.5	
20	256QAM	1	1	17.31	17.32	17.14	19.0	4.5	
Channel				37150	37600	38000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1860	1862.5			
15	QPSK	1	1	21.58	21.66	21.52	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1865			
10	QPSK	1	1	21.58	21.65	21.59	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1867.5			
5	QPSK	1	1	21.57	21.69	21.60	23.5	0.0	

n5 Modem D 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				16600	167300	167800			
Frequency (MHz)				835	838.5	839			
20	PI2 BPSK	1	1	22.51	22.60	22.59			
20	PI2 BPSK	1	53	22.53	22.58	22.57	24.5	0.0	
20	PI2 BPSK	1	104	22.52	22.60	22.59			
20	PI2 BPSK	50	0	22.22	22.22	22.17	24.0	0.5	
20	PI2 BPSK	50	28	22.54	22.58	22.51	24.5	0.0	
20	PI2 BPSK	50	56	22.13	22.13	22.17	24.0	0.5	
20	PI2 BPSK	100	0	22.14	22.37	22.05			
20	QPSK	1	1	22.73	22.76	22.75			
20	QPSK	1	53	22.55	22.53	22.58	24.5	0.0	
20	QPSK	1	104	22.59	22.95	22.62			
20	QPSK	50	0	21.64	21.74	21.59	23.5	1.0	
20	QPSK	50	28	22.60	22.74	22.54	24.5	0.0	
20	QPSK	50	56	21.66	21.59	21.52	23.5	1.0	
20	QPSK	100	0	21.55	21.65	21.58			
20	16QAM	1	1	21.67	21.87	21.56	23.5	1.0	
20	64QAM	1	1	20.07	20.16	20.02	22.0	2.5	
20	256QAM	1	1	18.29	18.15	18.05	20.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.63	22.72	22.70	0.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.65	22.71	22.72	24.5	0.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				828.5	836.5	848.5			
5	QPSK	1	1	22.69	22.69	22.67	24.5	0.0	

n7 Modem D 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				504000	507000	510000			
Frequency (MHz)				2620	2635	2660			
40	PI2 BPSK	1	1	18.58	18.58	18.58			
40	PI2 BPSK	1	108	18.60	18.69	18.51	20.5	0.0	
40	PI2 BPSK	1	214	18.67	18.68	18.54			
40	PI2 BPSK	108	0	18.62	18.68	18.52	20.5	0.0	
40	PI2 BPSK	108	54	18.62	18.68	18.52	20.5	0.0	
40	PI2 BPSK	108	108	18.64	18.65	18.56	20.5	0.0	
40	PI2 BPSK	216	0	18.57	18.58	18.52			
40	QPSK	1	1	18.60	18.72	18.51			
40	QPSK	1	108	18.61	18.60	18.56	20.5	0.0	
40	QPSK	1	214	18.55	18.59	18.55			
40	QPSK	108	0	18.58	18.68	18.54	20.5	0.0	
40	QPSK	108	54	18.57	18.69	18.55	20.5	0.0	
40	QPSK	108	108	18.66	18.62	18.57			
40	QPSK	216	0	18.60	18.68	18.57	20.5	0.0	
40	16QAM	1	1	18.66	18.69	18.57	20.5	0.0	
40	64QAM	1	1	18.55	18.55	18.61	20.5	0.0	
40	256QAM	1	1	17.18	17.15	17.10	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2615	2635	2665			
30	QPSK	1	1	18.60	18.65	18.54	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2612.5	2635	2657.5			
25	QPSK	1	1	18.54	18.66	18.62	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2610	2635	2660			
20	QPSK	1	1	18.54	18.70	18.63	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2607.5	2635	2662.5			
15	PI2 BPSK	1	1	18.62	18.55	18.58	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2605	2635	2665			
10	QPSK	1	1	18.55	18.65	18.62	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2602.5	2635	2667.5			
5	QPSK	1	1	18.53	18.66	18.56	20.5	0.0	

n12 Modem D 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				141300	141500	141700			
Frequency (MHz)				704.5	707.5	708.5			
15	PI2 BPSK	1	1	22.74	22.80	22.76			
15	PI2 BPSK	1	40	22.72	22.71	22.78	24.5	0.0	
15	PI2 BPSK	1	77	22.75	22.86	22.61			
15	PI2 BPSK	36	0	22.36	22.43	22.32	24.0	0.5	
15	PI2 BPSK	36	22	22.76	22.90	22.63	24.5	0.0	
15	PI2 BPSK	36	43	22.45	22.29	22.17	24.0	0.5	
15	PI2 BPSK	75	0	22.39	22.57	22.36			
15	QPSK	1	1	22.91	22.98	22.93			
15	QPSK	1	40	22.79	22.79	22.82	24.5	0.0	
15	QPSK	1	77	22.80	22.78	22.71			
15	QPSK	36	0	21.97	21.94	21.75	23.5	1.0	
15	QPSK	36	22	22.92	22.93	22.76	24.5	0.0	
15	QPSK	36	43	21.87	21.84	21.67	23.5	1.0	
15	QPSK	75	0	21.85	21.91	21.81			
15	16QAM	1	1	21.87	22.12	21.74	23.5	1.0	
15	64QAM	1	1	20.27	20.48	20.15	22.0	2.5	
15	256QAM	1	1	18.43	18.41	18.35	20.0	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
15	QPSK	1	1	22.96	22.92	22.92	24.5	0.0	
Channel				142000	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.82	22.93	22.75	24.5	0.0	

n13 Modem D 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				156400					
Frequency (MHz)				162					
10	PI2 BPSK	1	1		22.58			24.0	0.0
10	PI2 BPSK	1	26		22.34				
10	PI2 BPSK	1	50		22.34				
10	PI2 BPSK	25	0		21.91			23.5	0.5
10	PI2 BPSK	25	14		22.39			24.0	0.0
10	PI2 BPSK	25	27		22.17			23.5	0.5
10	PI2 BPSK	50	0		22.08				
10	QPSK	1	1		22.59			24.0	0.0
10	QPSK	1	26		22.59				
10	QPSK	1	50		22.21				
10	QPSK	25	0		21.41			23.0	1.0
10	QPSK	25	14		22.54			24.0	0.0
10	QPSK	25	27		21.41			23.0	1.0
10	QPSK	50	0		21.52				
10	16QAM	1	1		21.50			23.0	1.0
10	16QAM	1	1		20.02			21.0	2.5
10	256QAM	1	1		18.18			19.0	4.5
Channel				155900	156400	156900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	792	784.5			
5	QPSK	1	1	22.61	22.65	22.63	24.0	0.0	

n14 Modem D 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				158650					
Frequency (MHz)				793					
10	PI2 BPSK	1	1		22.77			24.5	0.0
10	PI2 BPSK	1	26		22.55				
10	PI2 BPSK	1	50		22.56				
10	PI2 BPSK	25	0		22.18			24.0	0.5
10	PI2 BPSK	25	14		22.51			24.5	0.0
10	PI2 BPSK	25	27		22.43			24.0	0.5
10	PI2 BPSK	50	0		22.20				
10	QPSK	1	1		22.81			24.5	0.0
10	QPSK	1	26		22.77				
10	QPSK	1	50		22.54				
10	QPSK	25	0		21.58			23.5	1.0
10	QPSK	25	14		22.66			24.5	0.0
10	QPSK	25	27		21.58			23.5	1.0
10	QPSK	50	0		21.69				
10	16QAM	1	1		21.58			23.5	1.0
10	16QAM	1	1		20.15			22.0	2.5
10	256QAM	1	1		18.25			20.0	4.5
Channel				158100	158650	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	796.5			
5	QPSK	1	1	22.74	22.79	22.70	24.5	0.0	

n25 Modem D 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				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI2 BPSK	1	1	22.07	22.18	21.96		23.5	0.0
40	PI2 BPSK	1	106	22.06	21.96	22.01			
40	PI2 BPSK	1	214	21.89	22.18	22.03			
40	PI2 BPSK	108	0	21.82	21.72	21.64		23.0	0.5
40	PI2 BPSK	108	54	21.90	22.12	21.94		23.5	0.0
40	PI2 BPSK	108	106	21.60	21.71	21.55		23.0	0.5
40	PI2 BPSK	216	0	21.65	21.86	21.63			
40	QPSK	1	1	22.24	22.27	22.23		23.5	0.0
40	QPSK	1	106	21.95	22.14	22.00			
40	QPSK	1	214	21.90	22.18	21.92			
40	QPSK	108	0	21.34	21.16	21.08		22.5	1.0
40	QPSK	108	54	22.24	22.25	21.92		23.5	0.0
40	QPSK	108	106	21.24	21.15	20.98		22.5	1.0
40	QPSK	216	0	21.20	21.23	21.09			
40	16QAM	1	1	21.23	21.24	21.14		22.5	1.0
40	16QAM	1	1	19.77	19.79	19.52		21.0	2.5
40	256QAM	1	1	17.73	17.80	17.62		19.0	4.5
Channel				373000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.18	22.18	22.18		23.5	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1892.5			
25	QPSK	1	1	22.19	22.24	22.20		23.5	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.19	22.22	22.20		23.5	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.19	22.21	22.15		23.5	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.18	22.21	22.16		23.5	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.19	22.18	22.15		23.5	0.0

n26 Modem D 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				164800	166000	167600			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.62	22.63	22.64		24.5	0.0
20	PI2 BPSK	1	53	22.63	22.59	22.64			
20	PI2 BPSK	1	104	22.67	22.59	22.78			
20	PI2 BPSK	50	0	22.29	22.23	22.31		24.0	0.5
20	PI2 BPSK	50	26	22.64	22.61	22.75		24.5	0.0
20	PI2 BPSK	50	56	22.24	22.24	22.29		24.0	0.5
20	PI2 BPSK	100	0	22.19	22.17	22.54			
20	QPSK	1	1	22.81	22.78	22.99		24.5	0.0
20	QPSK	1	53	22.70	22.55	22.74			
20	QPSK	1	104	22.74	22.97	22.70			
20	QPSK	50	0	21.81	21.85	21.75		23.5	1.0
20	QPSK	50	26	22.79	22.66	22.98		24.5	0.0
20	QPSK	50	56	21.79	21.61	21.71		23.5	1.0
20	QPSK	100	0	21.78	21.82	21.83			
20	16QAM	1	1	21.83	21.79	22.00		23.5	1.0
20	16QAM	1	1	20.20	20.21	20.28		22.0	2.5
20	256QAM	1	1	18.41	18.38	18.32		20.0	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.79	22.88	22.81		24.5	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.80	22.80	22.73		24.5	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.71	22.78	22.72		24.5	0.0

n30 Modem D Ant0								
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				460000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1		13.12			
10	PI2 BPSK	1	26		13.04		14.5	0.0
10	PI2 BPSK	1	50		13.00			
10	PI2 BPSK	25	0		12.83		14.5	0.0
10	PI2 BPSK	25	14		12.68		14.5	0.0
10	PI2 BPSK	25	27		12.78		14.5	0.0
10	PI2 BPSK	50	0		12.72		14.5	0.0
10	QPSK	1	1		13.17			
10	QPSK	1	26		12.92		14.5	0.0
10	QPSK	1	50		13.05			
10	QPSK	25	0		13.11		14.5	0.0
10	QPSK	25	14		13.14		14.5	0.0
10	QPSK	25	27		12.72		14.5	0.0
10	QPSK	50	0		12.93		14.5	0.0
10	16QAM	1	1		13.08		14.5	0.0
10	64QAM	1	1		12.89		14.5	0.0
10	256QAM	1	1		13.06		14.5	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	13.04	13.16	13.07	14.5	0.0

n66 Modem D 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				345000	345000	350000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	19.03	19.01	19.05		
40	PI2 BPSK	1	108	19.05	19.08	19.09	21.0	0.0
40	PI2 BPSK	1	214	19.06	19.16	19.03		
40	PI2 BPSK	108	0	19.05	19.05	19.08	21.0	0.0
40	PI2 BPSK	108	54	19.09	19.03	19.04	21.0	0.0
40	PI2 BPSK	108	106	19.05	19.04	19.07	21.0	0.0
40	PI2 BPSK	216	0	19.09	19.16	19.08		
40	QPSK	1	1	19.20	19.22	19.15		
40	QPSK	1	108	19.08	19.08	19.05	21.0	0.0
40	QPSK	1	214	19.10	19.07	19.08		
40	QPSK	108	0	19.03	19.04	19.05	21.0	0.0
40	QPSK	108	54	19.07	19.08	19.03	21.0	0.0
40	QPSK	108	108	19.05	19.04	19.02	21.0	0.0
40	QPSK	216	0	19.06	19.19	19.14		
40	16QAM	1	1	19.06	19.01	19.02	21.0	0.0
40	64QAM	1	1	19.01	18.99	19.01	21.0	0.0
40	256QAM	1	1	18.13	18.19	18.12	20.0	1.0
Channel				345000	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.04	19.14	19.09	21.0	0.0
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.08	19.18	19.04	21.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.09	19.14	19.03	21.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.04	19.15	19.04	21.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.06	19.15	19.05	21.0	0.0

n71 Modem D Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	22.62	22.69	22.64		
20	PI2 BPSK	1	53	22.69	22.71	22.57	24.5	0.0
20	PI2 BPSK	1	104	22.55	22.74	22.72		
20	PI2 BPSK	50	0	22.22	22.45	22.22	24.0	0.5
20	PI2 BPSK	50	28	22.68	22.59	22.62	24.5	0.0
20	PI2 BPSK	50	56	22.25	22.23	22.09	24.0	0.5
20	PI2 BPSK	100	0	22.07	22.42	22.06		
20	QPSK	1	1	22.73	22.83	22.87		
20	QPSK	1	53	22.71	22.64	22.83	24.5	0.0
20	QPSK	1	104	22.70	22.73	22.80		
20	QPSK	50	0	21.93	21.69	21.78	23.5	1.0
20	QPSK	50	28	22.77	22.78	22.94	24.5	0.0
20	QPSK	50	56	21.59	21.68	21.54	23.5	1.0
20	QPSK	100	0	21.68	21.75	21.81		
20	16QAM	1	1	21.78	21.93	21.72	23.5	1.0
20	64QAM	1	1	20.13	20.16	20.06	22.0	2.5
20	256QAM	1	1	19.29	19.35	19.33	20.0	4.5
Channel				134100	136100	138100	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.64	22.79	22.66	24.5	0.0
Channel				133600	136100	138600	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.65	22.78	22.56	24.5	0.0
Channel				133100	136100	139100	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.63	22.77	22.63	24.5	0.0

PC2/3 n38 Modem D 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	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.15	19.19	19.17	21.0	0.0	
40	PI/2 BPSK	1	53	19.15	19.24	19.20			
40	PI/2 BPSK	1	104	19.19	19.25	19.19	21.0	0.0	
40	PI/2 BPSK	50	0	19.14	19.24	19.11			
40	PI/2 BPSK	50	26	19.19	19.27	19.21	21.0	0.0	
40	PI/2 BPSK	50	56	19.11	19.35	19.20			
40	PI/2 BPSK	100	0	19.29	19.27	19.30	21.0	0.0	
40	QPSK	1	1	19.11	19.41	19.27			
40	QPSK	1	53	19.26	19.35	19.24	21.0	0.0	
40	QPSK	1	104	19.27	19.24	19.28			
40	QPSK	50	0	19.23	19.32	19.33	21.0	0.0	
40	QPSK	50	26	19.22	19.35	19.22			
40	QPSK	50	58	19.28	19.28	19.29	21.0	0.0	
40	QPSK	100	0	19.29	19.30	19.17			
40	16QAM	1	1	19.26	19.24	19.26	21.0	0.0	
40	64QAM	1	1	19.36	19.29	19.13			
40	256QAM	1	1	17.70	17.82	17.80	19.5	1.5	
Channel				517002	519000	520998	Tune-up limit (dBm)		
Frequency (MHz)				2585.01	2595	2604.99	MPR (dB)		
30	QPSK	1	1	19.37	19.35	19.37	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610	Tune-up limit (dBm)		
20	QPSK	1	1	19.29	19.37	19.29	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	Tune-up limit (dBm)		
15	QPSK	1	1	19.35	19.39	19.38	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98	Tune-up limit (dBm)		
10	QPSK	1	1	19.36	19.38	19.29	21.0	0.0	
Channel									

PC2/3 n41 Modem D 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				509202	518598	528200			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.21	19.30	19.27	21.0	0.0	
100	PI/2 BPSK	1	137	19.21	19.32	19.22			
100	PI/2 BPSK	1	271	19.24	19.31	19.24	21.0	0.0	
100	PI/2 BPSK	135	0	19.26	19.34	19.21			
100	PI/2 BPSK	135	69	19.28	19.39	19.24	21.0	0.0	
100	PI/2 BPSK	135	138	19.21	19.40	19.24			
100	PI/2 BPSK	270	0	19.28	19.30	19.30	21.0	0.0	
100	QPSK	1	1	19.22	19.45	19.31			
100	QPSK	1	137	19.29	19.43	19.24	21.0	0.0	
100	QPSK	1	271	19.36	19.30	19.30			
100	QPSK	135	0	19.34	19.35	19.32	21.0	0.0	
100	QPSK	135	69	19.29	19.36	19.28			
100	QPSK	135	138	19.27	19.32	19.30	21.0	0.0	
100	QPSK	270	0	19.29	19.32	19.25			
100	16QAM	1	1	19.31	19.32	19.27	21.0	0.0	
100	64QAM	1	1	19.36	19.40	19.20			
100	256QAM	1	1	17.76	17.92	17.85	19.5	1.5	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.25	19.29	19.22	21.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.30	19.38	19.32	21.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.28	19.34	19.25	21.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.37	19.40	19.26	21.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.23	19.37	19.33	21.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.30	19.35	19.29	21.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.33	19.44	19.21	21.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.36	19.34	19.26	21.0	0.0	
Channel									

n2 Modem D Ant2									
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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	22.42	22.42	22.35		24.0	0.0
20	PI/2 BPSK	1	53	22.37	22.41	22.08			
20	PI/2 BPSK	1	104	22.27	22.48	22.31		23.5	0.5
20	PI/2 BPSK	50	0	21.85	21.84	21.94			
20	PI/2 BPSK	50	28	22.44	22.36	22.31		24.0	0.0
20	PI/2 BPSK	50	56	22.11	22.28	21.90		23.5	0.5
20	PI/2 BPSK	100	0	21.89	22.37	21.74			
20	QPSK	1	1	22.47	22.50	22.48		24.0	0.0
20	QPSK	1	53	22.36	22.47	22.41			
20	QPSK	1	104	22.24	22.34	22.23		23.0	1.0
20	QPSK	50	0	21.18	21.26	21.36			
20	QPSK	50	28	22.48	22.49	22.41		24.0	0.0
20	QPSK	50	56	21.53	21.56	21.50		23.0	1.0
20	QPSK	100	0	21.51	21.61	21.30			
20	16QAM	1	1	21.60	21.62	21.50		23.0	1.0
20	64QAM	1	1	19.90	19.85	19.67		21.5	2.5
20	256QAM	1	1	17.99	18.23	18.10		19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.39	22.45	22.36		0.0	0.0
Channel				371000	376000	381000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.44	22.47	22.46		0.0	0.0
Channel				370500	376000	381500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.41	22.44	22.43		24.0	0.0

n7 Modem D Ant2									
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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	19.49	19.42	19.45		20.5	0.0
40	PI/2 BPSK	1	108	19.37	19.48	19.37			
40	PI/2 BPSK	1	214	19.44	19.40	19.43		20.5	0.0
40	PI/2 BPSK	108	0	19.35	19.49	19.52			
40	PI/2 BPSK	108	54	19.47	19.45	19.53		20.5	0.0
40	PI/2 BPSK	108	108	19.48	19.53	19.48		20.5	0.0
40	PI/2 BPSK	216	0	19.37	19.41	19.38			
40	QPSK	1	1	19.43	19.55	19.51		20.5	0.0
40	QPSK	1	108	19.43	19.40	19.52			
40	QPSK	1	214	19.40	19.44	19.38		20.5	0.0
40	QPSK	108	0	19.39	19.49	19.47			
40	QPSK	108	54	19.40	19.53	19.49		20.5	0.0
40	QPSK	108	108	19.42	19.43	19.49		20.5	0.0
40	QPSK	216	0	19.41	19.52	19.39			
40	16QAM	1	1	19.41	19.46	19.39		20.5	0.0
40	64QAM	1	1	19.40	19.40	19.47		20.5	0.0
40	256QAM	1	1	17.98	18.12	18.09		19.0	1.5
Channel				503000	507000	511000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.48	19.51	19.44		20.5	0.0
Channel				502500	507000	511500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.38	19.50	19.48		20.5	0.0
Channel				502000	507000	512000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	19.51	19.49	19.42		20.5	0.0
Channel				501500	507000	512500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	19.47	19.51	19.43		20.5	0.0
Channel				501000	507000	513000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.46	19.43	19.42		20.5	0.0
Channel				500500	507000	513500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.44	19.42	19.42		20.5	0.0

n25 Modem D Ant2									
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				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	22.52	22.71	22.62		24.0	0.0
40	PI/2 BPSK	1	108	22.61	22.62	22.26			
40	PI/2 BPSK	1	214	22.49	22.60	22.54		23.5	0.5
40	PI/2 BPSK	108	0	22.15	22.06	22.16			
40	PI/2 BPSK	108	54	22.69	22.58	22.52		24.0	0.0
40	PI/2 BPSK	108	108	22.33	22.47	22.11		23.5	0.5
40	PI/2 BPSK	216	0	22.12	22.55	21.98			
40	QPSK	1	1	22.67	22.72	22.56		24.0	0.0
40	QPSK	1	108	22.57	22.66	22.61			
40	QPSK	1	214	22.37	22.68	22.48		23.0	1.0
40	QPSK	108	0	21.48	21.60	21.64			
40	QPSK	108	54	22.70	22.71	22.63		24.0	0.0
40	QPSK	108	108	21.74	21.87	21.69		23.0	1.0
40	QPSK	216	0	21.73	21.77	21.66			
40	16QAM	1	1	21.83	21.86	21.71		23.0	1.0
40	64QAM	1	1	20.16	20.01	19.93		21.5	2.5
40	256QAM	1	1	18.17	18.47	18.21		19.5	4.5
Channel				373000	376500	380000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.63	22.66	22.56		24.0	0.0
Channel				372500	376500	380500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.69	22.69	22.51		24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.64	22.65	22.53		24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.60	22.68	22.53		24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.67	22.65	22.51		24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.66	22.64	22.51		24.0	0.0

n30 Modem D Ant2									
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				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		12.90			14.5	0.0
10	PI/2 BPSK	1	26		12.96				
10	PI/2 BPSK	1	50		12.75				
10	PI/2 BPSK	25	0		12.73			14.5	0.0
10	PI/2 BPSK	25	14		12.68			14.5	0.0
10	PI/2 BPSK	25	27		12.82			14.5	0.0
10	PI/2 BPSK	50	0		12.68				
10	QPSK	1	1		13.25				
10	QPSK	1	26		13.16			14.5	0.0
10	QPSK	1	50		13.24				
10	QPSK	25	0		13.15			14.5	0.0
10	QPSK	25	14		13.17			14.5	0.0
10	QPSK	25	27		12.82			14.5	0.0
10	QPSK	50	0		13.02				
10	16QAM	1	1		12.98			14.5	0.0
10	64QAM	1	1		12.94			14.5	0.0
10	256QAM	1	1		13.21			14.5	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	13.10	13.17	13.05		14.5	0.0

n66 Modem D Ant2									
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		353000	
Frequency (MHz)				1730		1745		1760	
40	PI/2 BPSK	1	1		19.07	19.05	19.12		
40	PI/2 BPSK	1	108		19.01	19.20	19.10	21.0	0.0
40	PI/2 BPSK	1	214		19.10	19.26	19.09		
40	PI/2 BPSK	108	0		19.05	19.10	19.08	21.0	0.0
40	PI/2 BPSK	108	54		19.04	19.04	19.06	21.0	0.0
40	PI/2 BPSK	108	108		19.08	19.19	19.06	21.0	0.0
40	PI/2 BPSK	216	0		19.04	19.28	19.06		
40	QPSK	1	1		19.19	19.31	19.10		
40	QPSK	1	108		19.10	19.15	19.08	21.0	0.0
40	QPSK	1	214		19.03	19.20	19.11		
40	QPSK	108	0		19.07	19.17	19.11	21.0	0.0
40	QPSK	108	54		19.17	19.19	19.15	21.0	0.0
40	QPSK	108	108		19.04	19.13	19.12	21.0	0.0
40	QPSK	216	0		19.13	19.25	19.17		
40	16QAM	1	1		19.02	19.16	19.10	21.0	0.0
40	64QAM	1	1		19.08	19.15	19.13	21.0	0.0
40	256QAM	1	1		19.16	19.22	19.12	20.0	1.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.08	19.20	19.15	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.04	19.19	19.10	21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.06	19.17	19.14	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.02	19.13	19.11	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.10	19.13	19.15	21.0	0.0	

n70 Modem D Ant2									
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						340500			
Frequency (MHz)						1702.5			
15	PI/2 BPSK	1	1		19.21			21.0	0.0
15	PI/2 BPSK	1	40		19.24				
15	PI/2 BPSK	1	77		19.33				
15	PI/2 BPSK	36	0		19.22			21.0	0.0
15	PI/2 BPSK	36	22		19.26			21.0	0.0
15	PI/2 BPSK	36	43		19.24			21.0	0.0
15	PI/2 BPSK	75	0		19.34				
15	QPSK	1	1		19.38			21.0	0.0
15	QPSK	1	40		19.25				
15	QPSK	1	77		19.25				
15	QPSK	36	0		19.23			21.0	0.0
15	QPSK	36	22		19.26			21.0	0.0
15	QPSK	36	43		19.25			21.0	0.0
15	QPSK	75	0		19.33				
15	16QAM	1	1		19.30			21.0	0.0
15	64QAM	1	1		19.30			21.0	0.0
15	256QAM	1	1		19.40			20.0	1.0
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	19.25	19.31	19.30	21.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	19.27	19.31	19.31	21.0	0.0	

PC2/3 n38 Modem D Ant2										
BN [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2590.02	2595	2599.98				
Frequency (MHz)										
40	PI2 BPSK	1	1	19.05	19.22	19.20		21.0	0.0	
40	PI2 BPSK	1	53	19.03	19.27	19.28				
40	PI2 BPSK	1	104	19.08	19.21	19.28				
40	PI2 BPSK	50	0	19.01	19.30	19.17	21.0	0.0	0.0	
40	PI2 BPSK	50	28	19.01	19.31	19.25	21.0			
40	PI2 BPSK	50	56	19.01	19.31	19.18				
40	PI2 BPSK	100	0	19.05	19.30	19.22	21.0	0.0	0.0	
40	QPSK	1	1	19.05	19.41	19.21				
40	QPSK	1	53	19.09	19.19	19.29	21.0			
40	QPSK	1	104	19.09	19.25	19.28		21.0	0.0	
40	QPSK	50	0	19.06	19.32	19.22	21.0			
40	QPSK	50	28	19.03	19.34	19.28	21.0			
40	QPSK	50	56	19.11	19.33	19.22		21.0	0.0	
40	QPSK	100	0	19.12	19.38	19.31				
40	16QAM	1	1	19.12	19.28	19.24	21.0			
40	64QAM	1	1	19.08	19.23	19.28	21.0	0.0	0.0	
40	256QAM	1	1	17.64	17.76	17.79	19.5			
Channel				516000	519000	520000		MPR (dB)		
Frequency (MHz)				2590.01	2595	2594.99				
30	QPSK	1	1	19.09	19.38	19.35	21.0	0.0	0.0	
Channel				515000	519000	521000				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	1	19.01	19.34	19.36	21.0	0.0	0.0	
Channel				515002	519000	522498				
Frequency (MHz)				2577.51	2595	2612.48				
15	QPSK	1	1	19.05	19.40	19.35	21.0	0.0	0.0	
Channel				515004	519000	522998				
Frequency (MHz)				2575.02	2595	2614.98				
10	QPSK	1	1	19.10	19.28	19.38	21.0	0.0	0.0	

PC2/3 n41 Modem D Ant2										
BN [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				
Frequency (MHz)				2546.01	2592.99	2640				
100	PI2 BPSK	1	1	19.13	19.40	19.36		21.0	0.0	
100	PI2 BPSK	1	137	19.09	19.39	19.42				
100	PI2 BPSK	1	271	19.15	19.37	19.42				
100	PI2 BPSK	135	0	19.19	19.48	19.36	21.0	0.0	0.0	
100	PI2 BPSK	135	69	19.14	19.44	19.35	21.0			
100	PI2 BPSK	135	138	19.12	19.48	19.35	21.0			
100	PI2 BPSK	270	0	19.09	19.41	19.38	21.0	0.0	0.0	
100	QPSK	1	1	19.20	19.50	19.31				
100	QPSK	1	137	19.11	19.37	19.38	21.0			
100	QPSK	1	271	19.17	19.43	19.34		21.0	0.0	
100	QPSK	135	0	19.14	19.48	19.31	21.0			
100	QPSK	135	69	19.10	19.49	19.37	21.0			
100	QPSK	135	138	19.19	19.46	19.32		21.0	0.0	
100	QPSK	270	0	19.18	19.45	19.43				
100	16QAM	1	1	19.09	19.38	19.32	21.0			
100	64QAM	1	1	19.18	19.39	19.36	21.0	0.0	0.0	
100	256QAM	1	1	17.77	17.90	17.94	19.5			
Channel				506200	518598	528998		MPR (dB)		
Frequency (MHz)				2641	2592.99	2644.98				
50	QPSK	1	1	19.19	19.46	19.43	21.0	0.0	0.0	
Channel				507204	518598	529998				
Frequency (MHz)				2636.02	2592.99	2648.99				
80	QPSK	1	1	19.22	19.44	19.33	21.0	0.0	0.0	
Channel				506202	518598	531000				
Frequency (MHz)				2631.01	2592.99	2655				
70	QPSK	1	1	19.20	19.35	19.40	21.0	0.0	0.0	
Channel				505200	518598	531998				
Frequency (MHz)				2630	2592.99	2658.98				
60	QPSK	1	1	19.11	19.44	19.39	21.0	0.0	0.0	
Channel				504204	518598	532998				
Frequency (MHz)				2621.09	2592.99	2664.98				
50	QPSK	1	1	19.07	19.46	19.39	21.0	0.0	0.0	
Channel				503202	518598	534000				
Frequency (MHz)				2616.01	2592.99	2670				
40	QPSK	1	1	19.19	19.46	19.36	21.0	0.0	0.0	
Channel				502200	518598	534998				
Frequency (MHz)				2611	2592.99	2674.98				
30	QPSK	1	1	19.07	19.41	19.41	21.0	0.0	0.0	
Channel				501204	518598	535998				
Frequency (MHz)				2606.09	2592.99	2679.98				
20	QPSK	1	1	19.11	19.43	19.40	21.0	0.0	0.0	

n48_FCC Modem D Ant2										
BN [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				638000	641666	645332				
Frequency (MHz)				3570	3624.98	3679.98				
40	PI2 BPSK	1	1	15.19	15.28	15.22		17.0	0.0	
40	PI2 BPSK	1	53	15.17	15.10	15.17				
40	PI2 BPSK	1	104	15.16	15.34	15.06				
40	PI2 BPSK	50	0	15.07	14.93	14.69	16.5	0.5	0.5	
40	PI2 BPSK	50	28	15.17	15.24	15.13	17.0			
40	PI2 BPSK	50	56	14.95	15.10	14.74	16.5			
40	PI2 BPSK	100	0	14.99	15.05	14.65		16.5	0.5	
40	QPSK	1	1	15.38	15.41	15.25				
40	QPSK	1	53	15.32	15.22	15.18	17.0			
40	QPSK	1	104	15.27	15.37	15.12		16.0	1.0	
40	QPSK	50	0	14.37	14.49	14.42	16.0			
40	QPSK	50	28	15.23	15.33	15.22	17.0			
40	QPSK	50	56	14.45	14.28	14.28	16.0	1.0	1.0	
40	QPSK	100	0	14.36	14.60	14.40				
40	16QAM	1	1	14.29	14.45	14.36	16.0			
40	64QAM	1	1	12.87	12.92	12.76	14.5	2.5	2.5	
40	256QAM	1	1	10.82	10.82	10.79	12.5			
Channel				637334	641666	646000		MPR (dB)		
Frequency (MHz)				3560.01	3624.98	3674.98				
20	QPSK	1	1	15.29	15.39	15.20	17.0	0.0	0.0	
Channel				637000	641666	646332				
Frequency (MHz)				3555	3624.98	3684.98				
10	QPSK	1	1	15.28	15.32	15.25	17.0	0.0	0.0	

PC3/PC2 Part270 n77 Modem D Ant2

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)								
100	Pi2 BPSK	1	1	22.44	22.52	22.56		
100	Pi2 BPSK	1	137	22.31	22.23	22.31	24.0	0.0
100	Pi2 BPSK	1	271	22.48	22.56	22.50		
100	Pi2 BPSK	135	0	22.45	22.50	22.41	24.0	0.0
100	Pi2 BPSK	135	69	22.35	22.23	22.27	24.0	0.0
100	Pi2 BPSK	135	138	22.37	22.27	22.29	24.0	0.0
100	Pi2 BPSK	270	0	22.24	22.38	22.27	24.0	0.0
100	QPSK	1	1	22.51	22.57	22.52		
100	QPSK	1	137	22.26	22.23	22.23	24.0	0.0
100	QPSK	1	271	22.21	22.24	22.23		
100	QPSK	135	0	22.45	22.40	22.40	24.0	0.0
100	QPSK	135	69	22.33	22.47	22.28	24.0	0.0
100	QPSK	135	138	22.41	22.36	22.34	24.0	0.0
100	QPSK	270	0	22.32	22.35	22.28	24.0	0.0
100	16QAM	1	1	22.21	22.27	22.25	24.0	0.0
100	64QAM	1	1	22.21	22.27	22.30	24.0	0.0
100	256QAM	1	1	20.73	20.79	20.73	22.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.26	22.29	22.30	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.32	22.40	22.17	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.32	22.22	22.24	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.40	22.23	22.29	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.37	22.27	22.25	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.41	22.24	22.39	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.21	22.40	22.27	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.28	22.30	22.16	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.34	22.40	22.28	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.27	22.44	22.36	24.0	0.0

PC3/PC2 Part270 n77 Modem D Ant2

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)								
100	Pi2 BPSK	1	1		22.36			
100	Pi2 BPSK	1	137		22.43		24.0	0.0
100	Pi2 BPSK	1	271		22.33			
100	Pi2 BPSK	135	0		22.45		24.0	0.0
100	Pi2 BPSK	135	69		22.49		24.0	0.0
100	Pi2 BPSK	135	138		22.43		24.0	0.0
100	Pi2 BPSK	270	0		22.41		24.0	0.0
100	QPSK	1	1		22.58			
100	QPSK	1	137		22.54		24.0	0.0
100	QPSK	1	271		22.42			
100	QPSK	135	0		22.45		24.0	0.0
100	QPSK	135	69		22.51		24.0	0.0
100	QPSK	135	138		22.49		24.0	0.0
100	QPSK	270	0		22.44		24.0	0.0
100	16QAM	1	1		22.39		24.0	0.0
100	64QAM	1	1		22.49		24.0	0.0
100	256QAM	1	1		20.37		22.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.19	22.21	22.20	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.12	22.16	22.09	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.23	22.21	22.08	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.10	22.14	22.12	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.18	22.24	22.17	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.19	22.20	22.20	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.10	22.16	22.12	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.22	22.09	22.19	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.13	22.24	22.20	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.17	22.21	22.19	24.0	0.0

PC3/PC2 Part270 n78 Modem D Ant2

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)								
100	Pi2 BPSK	1	1		22.11			
100	Pi2 BPSK	1	137		22.24		24.0	0.0
100	Pi2 BPSK	1	271		22.09			
100	Pi2 BPSK	135	0		22.27		24.0	0.0
100	Pi2 BPSK	135	69		22.36		24.0	0.0
100	Pi2 BPSK	135	138		22.30		24.0	0.0
100	Pi2 BPSK	270	0		22.19		24.0	0.0
100	QPSK	1	1		22.40			
100	QPSK	1	137		22.16		24.0	0.0
100	QPSK	1	271		22.16			
100	QPSK	135	0		22.10		24.0	0.0
100	QPSK	135	69		22.35		24.0	0.0
100	QPSK	135	138		22.18		24.0	0.0
100	QPSK	270	0		22.25		24.0	0.0
100	16QAM	1	1		22.04		24.0	0.0
100	64QAM	1	1		22.12		24.0	0.0
100	256QAM	1	1		20.20		22.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.15	22.10	22.10	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.11	22.14	22.10	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.04	22.17	22.09	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.07	22.02	22.12	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.01	22.10	22.10	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.11	22.10	22.10	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.09	22.06	22.03	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.05	22.03	22.18	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.14	22.17	22.04	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.12	22.03	22.06	24.0	0.0

PC3/PC2 Part27Q n78 Modem D Ant2

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								
100	Frequency (MHz)			633334	5600 01			
100	P12 BPSK	1	1	22,22				
100	P12 BPSK	1	137	22,14		24,0	0,0	
100	P12 BPSK	1	271	22,17				
100	P12 BPSK	136	0	22,36		24,0	0,0	
100	P12 BPSK	136	69	22,17				
100	P12 BPSK	136	136	22,18		24,0	0,0	
100	P12 BPSK	270	0	22,03				
100	QPSK	1	1	22,25				
100	QPSK	1	137	22,15		24,0	0,0	
100	QPSK	1	271	22,15				
100	QPSK	136	0	22,26		24,0	0,0	
100	QPSK	136	69	22,31		24,0	0,0	
100	QPSK	136	136	22,17		24,0	0,0	
100	QPSK	270	0	22,13				
100	16QAM	1	1	22,29		24,0	0,0	
100	56QAM	1	1	22,33		24,0	0,0	
100	256QAM	1	1	20,18		22,0	2,0	
Channel								
	Frequency (MHz)			633000	633334	633668		
90	QPSK	1	1	24,65	5000 01	3656 02		
90	QPSK	1	1	22,16	22,08	22,21	24,0	0,0
Channel								
	Frequency (MHz)			633334	633000	633668		
80	QPSK	1	1	24,02	5000 01	3656 02		
80	QPSK	1	1	22,09	22,11	22,12	24,0	0,0
Channel								
	Frequency (MHz)			632334	633334	634334		
70	QPSK	1	1	24,85	5000 01	3615 01		
70	QPSK	1	1	22,19	22,10	22,12	24,0	0,0
Channel								
	Frequency (MHz)			632000	633334	634668		
60	QPSK	1	1	24,80	5000 01	3606 02		
60	QPSK	1	1	22,08	22,10	22,12	24,0	0,0
Channel								
	Frequency (MHz)			631668	633334	635000		
50	QPSK	1	1	24,75	5000 01	3525		
50	QPSK	1	1	22,17	22,22	22,18	24,0	0,0
Channel								
	Frequency (MHz)			631334	633334	635334		
40	QPSK	1	1	24,63	5000 01	3506 01		
40	QPSK	1	1	22,17	22,20	22,19	24,0	0,0
Channel								
	Frequency (MHz)			631000	633334	635668		
30	QPSK	1	1	24,65	5000 01	3516 02		
30	QPSK	1	1	22,20	22,16	22,14	24,0	0,0
Channel								
	Frequency (MHz)			630668	633334	636000		
20	QPSK	1	1	24,60	5000 01	3540		
20	QPSK	1	1	22,21	22,07	22,17	24,0	0,0
Channel								
	Frequency (MHz)			630330	633334	636168		
15	QPSK	1	1	24,57	5000 01	3542 03		
15	QPSK	1	1	22,11	22,07	22,18	24,0	0,0
Channel								
	Frequency (MHz)			630000	633334	636330		
10	QPSK	1	1	24,51	5000 01	3545 01		
10	QPSK	1	1	22,15	22,01	22,16	24,0	0,0

<2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.75	20.00	99.07
		6	2437	19.85	20.00	
		11	2462	19.77	20.00	
	802.11g 6Mbps	1	2412	19.67	20.00	94.00
		6	2437	19.74	20.00	
		11	2462	19.64	20.00	
	802.11n-HT20 MCS0	1	2412	19.75	20.00	91.67
		6	2437	19.67	20.00	
		11	2462	19.75	20.00	
	802.11n-HT40 MCS0	3	2422	19.25	19.50	87.67
		6	2437	19.17	19.50	
		9	2452	19.20	19.50	

<5.2GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.72	20.00	95.03
		40	5200	19.75	20.00	
		44	5220	19.71	20.00	
		48	5240	19.69	20.00	
	802.11n-HT20 MCS0	36	5180	19.61	20.00	93.97
		40	5200	19.66	20.00	
		44	5220	19.69	20.00	
		48	5240	19.69	20.00	
	802.11n-HT40 MCS0	38	5190	19.22	19.50	89.73
		46	5230	19.24	19.50	

<5.3GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.65	20.00	95.03
		56	5280	19.72	20.00	
		60	5300	19.72	20.00	
		64	5320	19.67	20.00	
	802.11n-HT20 MCS0	52	5260	19.62	20.00	93.97
		56	5280	19.69	20.00	
		60	5300	19.68	20.00	
		64	5320	19.69	20.00	
	802.11n-HT40 MCS0	54	5270	19.32	19.50	89.73
		62	5310	19.34	19.50	

<5.8GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	100	5500	19.62	20.00	95.03
		116	5580	19.70	20.00	
		112	5560	19.77	20.00	
		124	5620	19.70	20.00	
		132	5660	19.64	20.00	
		140	5700	19.55	20.00	
		100	5500	19.68	20.00	
		116	5580	19.54	20.00	
	802.11n-HT20 MCS0	112	5560	19.69	20.00	93.97
		124	5620	19.61	20.00	
		132	5660	19.61	20.00	
		140	5700	19.68	20.00	
		102	5510	19.26	19.50	
		110	5550	19.40	19.50	
		126	5630	19.37	19.50	
		134	5670	19.38	19.50	

<5.8GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	19.73	20.00	95.03
		157	5785	19.69	20.00	
		165	5825	19.68	20.00	
		149	5745	19.69	20.00	
	802.11n-HT20 MCS0	157	5785	19.69	20.00	93.97
		165	5825	19.64	20.00	
		151	5755	19.32	19.50	
		159	5795	19.36	19.50	