



Band 2

Band 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low CIS 17.100 dBm	Power Mode CIS 17.100 dBm	Power High CIS 17.100 dBm	Turn-up loss (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				18.715	18.715	18.72			
20	QPSK	1	0	22.17	22.20	22.25			
20	QPSK	1	60	22.08	22.11	22.15	22.5	0	
20	QPSK	50	24	21.02	21.10	21.15			
20	QPSK	50	0	21.11	21.14	21.18	21.5	1	
20	QPSK	50	2	21.07	21.10	21.15			
20	QPSK	50	2	21.07	21.10	21.15			
Frequency (MHz)				18.815	18.815	18.824			
15	QPSK	1	0	22.14	22.12	22.16			
15	QPSK	1	30	22.10	22.10	22.12	22.5	0	
15	QPSK	30	74	21.08	21.04	21.05			
15	QPSK	30	5	21.04	21.06	21.07			
15	QPSK	30	30	21.08	21.11	21.05	21.5	1	
15	QPSK	30	30	21.08	21.11	21.05			
Channel				20.44	20.48	20.44			
Frequency (MHz)				18.915	18.915	18.924			
10	QPSK	1	0	22.09	22.08	22.05	Turn-up loss (dBm)	MFR (dB)	
10	QPSK	1	30	22.05	22.05	22.05	22.5	0	
10	QPSK	1	60	22.04	22.02	22.02			
10	QPSK	30	30	22.04	22.02	22.02			
10	QPSK	30	12	22.04	22.04	22.02	21.5	1	
10	QPSK	30	24	22.04	22.04	22.02			
10	QPSK	50	2	20.37	20.40	20.42			
Frequency (MHz)				19.015	19.015	19.023			
2	QPSK	1	0	22.10	22.10	22.12	Turn-up loss (dBm)	MFR (dB)	
2	QPSK	1	24	22.11	22.13	22.17			
2	QPSK	1	18	22.11	22.13	22.17	22.5	0	
2	QPSK	12	0	20.09	21.01	20.89			
2	QPSK	12	12	21.09	21.01	20.89			
2	QPSK	12	12	21.09	21.01	20.89	21.5	1	
2	QPSK	25	13	21.03	21.07	20.93			
2	QPSK	25	0	20.35	20.43	20.49			
Channel				18.615	18.600	18.608	Turn-up loss (dBm)	MFR (dB)	
3	QPSK	1	0	22.00	22.00	21.77			
3	QPSK	1	30	22.14	22.10	21.77	22.5	0	
3	QPSK	1	14	21.09	22.08	21.80			
3	QPSK	6	0	20.09	20.08	20.71			
3	QPSK	6	6	21.09	21.08	20.71	21.5	1	
3	QPSK	6	6	21.09	21.08	20.71			
Channel				18.405	18.408	18.394			
1.4	QPSK	1	0	22.05	22.01	21.93	Turn-up loss (dBm)	MFR (dB)	
1.4	QPSK	1	30	22.05	22.03	22.04			
1.4	QPSK	1	18	22.08	22.08	22.08	22.5	0	
1.4	QPSK	3	0	22.04	22.03	21.93			
1.4	QPSK	3	3	22.12	22.14	21.93			
1.4	QPSK	3	3	22.04	22.10	21.91	21.5	1	
1.4	QPSK	6	0	20.38	20.38	20.37			

Band 4

Band 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low CIS 17.100 dBm	Power Mode CIS 17.100 dBm	Power High CIS 17.100 dBm	Turn-up loss (dBm)	MFR (dB)
Channel								
Frequency (MHz)				17.125	17.125	17.145		
20	QPSK	1	0	21.06	21.06	21.80		
20	QPSK	1	60	21.06	21.06	21.80	22.5	0
20	QPSK	1	90	21.10	21.06	21.80		
20	QPSK	50	90	20.90	21.00	20.80		
20	QPSK	50	24	20.90	21.00	20.80	21.5	1
20	QPSK	100	90	20.90	21.00	20.80		
Channel								
Frequency (MHz)				17.150	17.150	17.155		
15	QPSK	1	0	21.00	21.00	21.80		
15	QPSK	1	30	21.00	21.00	21.80	22.5	0
15	QPSK	1	74	21.06	21.06	21.80		
15	QPSK	150	0	20.70	20.80	20.70		
15	QPSK	150	24	20.70	20.80	20.40	21.5	1
15	QPSK	150	70	20.40	20.50	20.40		
Channel								
Frequency (MHz)				17.175	17.175	17.175		
10	QPSK	1	0	21.00	21.00	21.80		
10	QPSK	1	25	21.00	21.00	21.80	22.5	0
10	QPSK	1	140	21.06	21.06	21.80		
10	QPSK	25	0	20.80	20.80	20.80		
10	QPSK	25	25	20.44	20.54	20.40	21.5	1
10	QPSK	25	0	20.44	20.54	20.40		
Channel								
Frequency (MHz)				17.225	17.225	17.225		
5	QPSK	1	0	21.00	21.00	21.80		
5	QPSK	1	12	20.94	20.90	20.80	22.5	0
5	QPSK	1	24	21.02	20.70	21.00		
5	QPSK	10	0	20.90	20.80	20.70		
5	QPSK	12	7	20.80	20.80	20.70	21.5	1
5	QPSK	10	10	20.70	20.70	20.70		
5	QPSK	25	0	20.35	20.34	20.40		
Channel								
Frequency (MHz)				17.265	17.265	17.265		
3	QPSK	1	0	21.00	21.00	21.70		
3	QPSK	1	30	21.00	21.00	21.70	22.5	0
3	QPSK	1	14	21.00	20.90	20.80		
3	QPSK	6	0	20.80	20.80	20.70		
3	QPSK	6	6	20.80	20.80	20.70	21.5	1
3	QPSK	15	0	20.42	20.40	20.40		
Channel								
Frequency (MHz)				17.315	17.315	17.315		
1.4	QPSK	1	0	21.00	21.00	21.60		
1.4	QPSK	1	30	21.00	21.00	21.60	22.5	0
1.4	QPSK	1	14	21.00	20.90	20.80		
1.4	QPSK	3	0	21.00	21.00	21.60		
1.4	QPSK	3	3	21.00	20.90	21.60	21.5	1
1.4	QPSK	6	0	20.34	20.44	20.30		

Band 5

Band 5								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low CIS 17.100 dBm	Power Mode CIS 17.100 dBm	Power High CIS 17.100 dBm	Turn-up loss (dBm)	MFR (dB)
Channel								
10	QPSK	1	0	20.10	20.10	20.80		
Frequency (MHz)								
10	QPSK	1	30	20.10	20.10	20.80	22	0
10	QPSK	1	60	21.00	20.90	20.80		
10	QPSK	50	90	21.00	21.00	21.00		
10	QPSK	50	12	21.00	21.00	21.00	22	1
10	QPSK	100	90	21.00	21.00	21.00		
10	QPSK	100	0	21.00	21.00	21.00		
Channel								
5	QPSK	1	0	20.00	20.00	20.70	Turn-up loss (dBm)	MFR (dB)
5	QPSK	1	12	20.00	20.00	20.70	22.5	0
5	QPSK	1	60	21.00	20.90	20.80		
5	QPSK	12	0	21.00	21.00	21.00		
5	QPSK	12	10	21.00	21.00	21.00	22	1
5	QPSK	20	0	21.00	21.00	21.00		
Frequency (MHz)								
3	QPSK	1	0	20.00	20.00	20.70	Turn-up loss (dBm)	MFR (dB)
3	QPSK	1	30	20.00	20.00	20.70	22.5	0
3	QPSK	1	10	21.00	20.90	20.80		
3	QPSK	6	0	21.00	21.00	21.00		
3	QPSK	6	6	21.00	21.00	21.00	22	1
3	QPSK	10	0	21.00	21.00	21.00		
Channel								
1.4	QPSK	1	0	21.00	21.00	20.60	Turn-up loss (dBm)	MFR (dB)
1.4	QPSK	1	30	21.00	20.90	20.80	22.5	0
1.4	QPSK	3	0	21.00	21.00	20.60		
1.4	QPSK	3	3	21.00	20.90	20.60		
1.4	QPSK	6	0	21.00	21.00	20.60	22	1
1.4	QPSK	6	6	21.00	20.90	20.60	22.5	0
1.4	QPSK	12	0	21.00	21.00	20.60		
1.4	QPSK	12	3	21.00	20.90	20.60		
1.4	QPSK	24	0	21.00	21.00	20.60	22	1

Band 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low CIS Power	Power Modulo CIS Power	Power High CIS Power	Time-up time (dBm)	APRS (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.05	22.12	22.05			
10	QPSK	1	26	22.14	22.17	22.15	23	0	
10	QPSK	1	46	22.05	22.18	22.05			
10	QPSK	25	0	22.05	22.05	22.05			
10	QPSK	25	12	22.19	22.15	22.29	22	1	
10	QPSK	25	26	22.05	22.18	22.05			
10	QPSK	50	0	22.05	22.12	22.05			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.54	21.57	21.57	Time-up time (dBm)	APRS (dB)	
5	QPSK	1	12	21.56	22.18	22.05	23	0	
5	QPSK	1	24	21.55	22.01	21.55			
5	QPSK	12	0	21.67	21.31	21.53			
5	QPSK	12	7	22.01	22.05	22.01	22	1	
5	QPSK	12	13	22.05	22.34	22.05			
5	QPSK	25	0	22.05	22.05	22.05			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.05	22.05	22.05	Time-up time (dBm)	APRS (dB)	
3	QPSK	1	6	22.05	22.05	22.05	23	0	
3	QPSK	1	14	22.05	22.05	22.05			
3	QPSK	6	0	22.04	22.18	22.18			
3	QPSK	6	7	22.19	22.05	22.04	22	1	
3	QPSK	12	0	22.05	22.05	22.05			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.05	22.05	22.05	Time-up time (dBm)	APRS (dB)	
1.4	QPSK	1	3	22.05	22.14	22.07	23	0	
1.4	QPSK	1	5	22.07	22.05	22.07			
1.4	QPSK	3	0	22.05	22.05	22.05			
1.4	QPSK	3	1	22.07	22.07	22.05			
1.4	QPSK	3	3	22.18	22.05	22.18	22	1	
1.4	QPSK	6	0	22.14	22.21	22.13			

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low CIS Power	Power Modulo CIS Power	Power High CIS Power	Time-up time (dBm)	APRS (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.55	22.05	21.55			
20	QPSK	1	46	21.55	22.15	21.55	22.5	0	
20	QPSK	1	96	21.55	22.05	21.55			
20	QPSK	50	0	22.11	22.11	22.11			
20	QPSK	50	24	22.05	22.11	22.05	21.5	1	
20	QPSK	50	50	22.11	22.05	22.05			
20	QPSK	100	0	22.07	22.05	22.05			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.55	22.05	21.55	Time-up time (dBm)	APRS (dB)	
15	QPSK	1	27	21.57	22.15	22.05	22.5	0	
15	QPSK	1	74	21.55	22.05	21.55			
15	QPSK	36	0	22.05	22.05	22.05			
15	QPSK	36	20	22.05	22.05	22.05	21.5	1	
15	QPSK	36	39	22.05	22.04	22.01			
15	QPSK	72	0	22.05	22.05	22.05	Time-up time (dBm)	APRS (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.55	22.05	21.55			
10	QPSK	1	25	21.57	22.05	22.05	22.5	0	
10	QPSK	1	42	21.55	22.05	21.55			
10	QPSK	25	0	22.05	22.05	22.05			
10	QPSK	25	12	22.05	22.05	22.05	21.5	1	
10	QPSK	50	0	22.05	22.05	22.05			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.55	22.05	21.55	Time-up time (dBm)	APRS (dB)	
5	QPSK	1	3	21.55	22.05	21.57	22.5	0	
5	QPSK	1	12	21.55	22.05	22.05			
5	QPSK	1	24	21.57	22.14	21.75			
5	QPSK	10	0	22.05	22.04	22.07			
5	QPSK	12	7	22.05	22.05	22.05	21.5	1	
5	QPSK	25	0	22.05	22.04	22.05			
5	QPSK	25	0	22.05	22.05	22.05	Time-up time (dBm)	APRS (dB)	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.55	22.05	21.55	Time-up time (dBm)	APRS (dB)	
1.4	QPSK	1	3	21.55	22.05	22.05	22.5	0	
1.4	QPSK	1	14	21.55	22.05	21.55			
1.4	QPSK	6	0	22.05	22.05	22.05			
1.4	QPSK	6	4	22.05	22.05	22.05	21.5	1	
1.4	QPSK	15	0	22.05	22.05	22.05	Time-up time (dBm)	APRS (dB)	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.55	22.05	21.55			
1.4	QPSK	1	3	21.55	22.05	22.05	22.5	0	
1.4	QPSK	1	1	21.55	22.05	21.55			
1.4	QPSK	3	0	21.55	22.05	21.55			
1.4	QPSK	3	1	21.55	22.05	21.75	21.5	1	
1.4	QPSK	6	0	22.15	22.15	22.14			

<WLAN 2.4GHz FCC>						
2.4GHz WLAN						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	15.40	16.00	97.82
		6	2437	15.60	16.00	
		11	2462	15.70	16.00	
	802.11g 6Mbps	1	2412	12.00	13.00	87.18
		6	2437	12.20	13.00	
		11	2462	12.20	13.00	
	802.11n-HT20 MCS0	1	2412	12.00	13.00	86.39
		6	2437	12.20	13.00	
		11	2462	12.20	13.00	

<Bluetooth FCC>					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	9.10	6.80	6.80
	CH 39	2441	9.10	6.80	6.80
	CH 78	2480	7.00	4.70	4.70
Tune-up Limit			10	8	8

BT LE				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	0.10	
	CH 19	2440	-0.20	
	CH 39	2480	-1.80	
Tune-up Limit			1	