

# NATIONAL TELECOMMUNICATIONS COMMISSION

## MICROWAVE CHANNEL PLAN

(UPDATED: AUGUST  
2019)

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS																								
1427-1530 MHz POINT-TO-MULTIPOINT RADIO SYSTEM	CH #	F	F'	ITU- R Rep. 379 (Annex II)																								
				<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Channel Capacity</u></th> <th style="text-align: left;"><u>RF Channel Sep. (MHz)</u></th> <th style="text-align: left;"><u>RF Channel No.</u></th> </tr> </thead> <tbody> <tr> <td>12 FDM</td> <td>1</td> <td>1,2,3,4...</td> </tr> <tr> <td>24 FDM</td> <td>2</td> <td>1,2,3,4...</td> </tr> <tr> <td>60 FDM</td> <td>4</td> <td>1,3,5,7...</td> </tr> <tr> <td>24 FDM</td> <td>2</td> <td>1,2,3,4...</td> </tr> <tr> <td>30 FDM</td> <td>2</td> <td>1,2,3,4...</td> </tr> <tr> <td>48 FDM</td> <td>4</td> <td>1,3,5,7...</td> </tr> <tr> <td>60 FDM</td> <td>4</td> <td>1,3,5,7...</td> </tr> </tbody> </table>	<u>Channel Capacity</u>	<u>RF Channel Sep. (MHz)</u>	<u>RF Channel No.</u>	12 FDM	1	1,2,3,4...	24 FDM	2	1,2,3,4...	60 FDM	4	1,3,5,7...	24 FDM	2	1,2,3,4...	30 FDM	2	1,2,3,4...	48 FDM	4	1,3,5,7...	60 FDM	4	1,3,5,7...
	<u>Channel Capacity</u>	<u>RF Channel Sep. (MHz)</u>	<u>RF Channel No.</u>																									
	12 FDM	1	1,2,3,4...																									
	24 FDM	2	1,2,3,4...																									
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	24 FDM	2	1,2,3,4...																									
	30 FDM	2	1,2,3,4...																									
	48 FDM	4	1,3,5,7...																									
	60 FDM	4	1,3,5,7...																									
	1	1428.5	1477.5																									
	2	1430.5	1479.5																									
	3	1432.5	1481.5																									
	4	1434.5	1483.5																									
	5	1436.5	1485.5																									
	6	1438.5	1487.5																									
	7	1440.5	1489.5																									
	8	1442.5	1491.5																									
	9	1444.5	1493.5																									
	10	1446.5	1495.5																									
	11	1448.5	1497.5																									
	12	1450.5	1499.5																									
	13	1452.5	1501.5																									
	14	1454.5	1503.5																									
	15	1456.5	1505.5																									
16	1458.5	1507.5																										
17	1460.5	1509.5																										
18	1462.5	1511.5																										
19	1464.5	1513.5																										
20	1466.5	1515.5																										
21	1468.5	1517.5																										
22	1470.5	1519.5																										
23	1472.5	1521.5																										
24	1474.5	1523.5																										
	CH #	F	F'	RF Channel Arrangements for SR Telecom's TDMA Multi Access Radios (SR-100 and SR-500)																								
	1	1428.75	1477.75																									
	2	1432.25	1481.25																									
	3	1435.75	1484.75																									
	4	1439.25	1488.25																									
	5	1442.75	1491.75																									
	6	1446.25	1495.25																									
	7	1449.75	1498.75																									
	8	1453.25	1502.25																									
	9	1456.75	1505.75																									
	10	1460.25	1509.25																									
	11	1463.75	1512.75																									
	12	1467.25	1516.25																									
	13	1470.75	1519.75																									
	14	1474.25	1523.25																									

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>2025-2110 MHz</b> <b>2200-2290 MHz</b>  POINT-TO-POINT RADIO COMMUNICATIONS SYSTEM	CH #	F	F'	ITU-R Rec. F 1098
	1	2032.5	2207.5	Relocation Band
	2	2046.5	2221.5	
	3	2060.5	2235.5	
	4	2074.5	2249.5	
	5	2088.5	2263.5	
6	2102.5	2277.5		
	CH #	F	F'	ITU-R F 283
	1	2038.5	2213.5	Relocation Band
	2	2052.5	2227.5	
	3	2066.5	2241.5	Channel arrangements with carrier spacing of 14 MHz
	4	2080.5	2255.5	
5	2094.5	2269.5		
	CH #	F	F'	Channel arrangements with carrier spacing of 7 MHz
	1	2035.00	2210.00	
	2	2042.00	2217.00	
	3	2049.00	2224.00	
	4	2056.00	2231.00	
	5	2063.00	2238.00	
	6	2070.00	2245.00	
	7	2077.00	2252.00	
	8	2084.00	2259.00	
	9	2091.00	2266.00	
	10	2098.00	2273.00	
11	2105.00	2280.00		
	CH #	F	F'	Channel arrangements with carrier spacing of 3.5 MHz
	1	2029.75	2204.75	
	2	2033.25	2208.25	
	3	2036.75	2211.75	
	4	2040.25	2215.25	
	5	2043.75	2218.75	
	6	2047.25	2222.25	
	7	2050.75	2225.75	
	8	2054.25	2229.25	
	9	2057.75	2232.75	
	10	2061.25	2236.25	
	11	2064.75	2239.75	
	12	2068.25	2243.25	
	13	2071.75	2246.75	
	14	2075.25	2250.25	
	15	2078.75	2253.75	
	16	2082.25	2257.25	
	17	2085.75	2260.75	
	18	2089.25	2264.25	
	19	2092.75	2267.75	
	20	2096.25	2271.25	
	21	2099.75	2274.75	
	22	2103.25	2278.25	
23	2106.75	2281.75		

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>2025-2110 MHz</b> <b>2200-2290 MHz</b>  POINT-TO-POINT RADIO COMMUNICATIONS SYSTEM	CH #	F	F'	ITU-R F 283 Relocation Band  Channel arrangements with carrier spacing of 1.75 MHz
	1	2026.25	2201.25	
	2	2028.00	2203.00	
	3	2029.75	2204.75	
	4	2031.50	2206.50	
	5	2033.25	2208.25	
	6	2035.00	2210.00	
	7	2036.75	2211.75	
	8	2038.50	2213.50	
	9	2040.25	2215.25	
	10	2042.00	2217.00	
	11	2043.75	2218.75	
	12	2045.50	2220.50	
	13	2047.25	2222.25	
	14	2049.00	2224.00	
	15	2050.75	2225.75	
	16	2052.50	2227.50	
	17	2054.25	2229.25	
	18	2056.00	2231.00	
	19	2057.75	2232.75	
	20	2059.50	2234.50	
	21	2061.25	2236.25	
	22	2063.00	2238.00	
	23	2064.75	2239.75	
	24	2066.50	2241.50	
	25	2068.25	2243.25	
	26	2070.00	2245.00	
	27	2071.75	2246.75	
	28	2073.50	2248.50	
	29	2075.25	2250.25	
	30	2077.00	2252.00	
	31	2078.75	2253.75	
	32	2080.50	2255.50	
	33	2082.25	2257.25	
	34	2084.00	2259.00	
	35	2085.75	2260.75	
	36	2087.50	2262.50	
	37	2089.25	2264.25	
	38	2091.00	2266.00	
	39	2092.75	2267.75	
	40	2094.50	2269.50	
	41	2096.25	2271.25	
	42	2098.00	2273.00	
	43	2099.75	2274.75	
	44	2101.50	2276.50	
	45	2103.25	2278.25	
	46	2105.00	2280.00	
	47	2106.75	2281.75	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
2500-2700 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rec. 283  Recommended RF channel arrangements for for analog (300 FDM channels) and/or digital (480 PCM channels) radio links  <p style="text-align: center;"><b>NOTE: 2596-2644 MHz IS ALSO ALLOCATED TO MMDS (BC SERVICE)</b></p>
	1	2491.5	2610.5	
	2	2505.5	2624.5	
	3	2519.5	2638.5	
	4	2533.5	2652.5	
	5	2547.5	2666.5	
	6	2561.5	2680.5	
	CH #	F	F'	ITU-R Rec. 283  Recommended RF channel arrangements for for analog (120 FDM channels) and/or digital (120 PCM channels) radio links  <p style="text-align: center;"><b>NOTE: 2596-2644 MHz IS ALSO ALLOCATED TO MMDS (BC SERVICE)</b></p>
	1	2491.5	2610.5	
	2	2498.5	2617.5	
	3	2505.5	2624.5	
	4	2512.5	2631.5	
	5	2519.5	2638.5	
	6	2526.5	2645.5	
	7	2533.5	2652.5	
	8	2540.5	2659.5	
	9	2547.5	2666.5	
	10	2554.5	2673.5	
	11	2561.5	2680.5	

**3400-3600 MHz**

Ch. No.	3.5 MHz Blocks		Ch. No.	7 MHz Blocks																																		
	1	3400.25-3403.75		3500.25-3503.75	1	3400.25-3407.25	3500.25-3507.25																															
2	3403.75-3407.25	3503.75-3507.25	2	3407.25-3414.25	3507.25-3514.25																																	
3	3407.25-3410.75	3507.25-3510.75	3	3414.25-3421.25	3514.25-3521.25																																	
4	3410.75-3414.25	3510.75-3514.25	4	3421.25-3428.25	3521.25-3528.25																																	
5	3414.25-3417.75	3514.25-3517.75	5	3428.25-3435.25	3528.25-3535.25																																	
6	3417.75-3421.25	3517.75-3521.25	6	3435.25-3442.25	3535.25-3542.25																																	
7	3421.25-3424.75	3521.25-3524.75	7	3442.25-3449.25	3542.25-3549.25																																	
8	3424.75-3428.25	3524.75-3528.25	8	3449.25-3456.25	3549.25-3556.25																																	
9	3428.25-3431.75	3528.25-3531.75	9	3456.25-3463.25	3556.25-3563.25																																	
10	3431.75-3435.25	3531.75-3535.25	10	3463.25-3470.25	3563.25-3570.25																																	
11	3435.25-3438.75	3535.25-3538.75	11	3470.25-3477.25	3570.25-3577.25																																	
12	3438.75-3442.25	3538.75-3542.25	12	3477.25-3484.25	3577.25-3584.25																																	
13	3442.25-3445.75	3542.25-3545.75	13	3484.25-3491.25	3584.25-3591.25																																	
14	3445.75-3449.25	3545.75-3549.25	14	3491.25-3498.25	3591.25-3598.25																																	
15	3449.25-3452.75	3549.25-3552.75																																				
16	3452.75-3456.25	3552.75-3556.25																																				
17	3456.25-3459.75	3556.25-3559.75	<table border="1"> <thead> <tr> <th>Ch. No.</th> <th colspan="2">14 MHz Blocks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3400.25-3414.25</td> <td>3500.25-3514.25</td> </tr> <tr> <td>2</td> <td>3414.25-3428.25</td> <td>3514.25-3528.25</td> </tr> <tr> <td>3</td> <td>3428.25-3442.25</td> <td>3528.25-3542.25</td> </tr> <tr> <td>4</td> <td>3442.25-3456.25</td> <td>3542.25-3556.25</td> </tr> <tr> <td>5</td> <td>3456.25-3470.25</td> <td>3556.25-3570.25</td> </tr> <tr> <td>6</td> <td>3470.25-3484.25</td> <td>3570.25-3584.25</td> </tr> <tr> <td>7</td> <td>3484.25-3498.25</td> <td>3584.25-3598.25</td> </tr> <tr> <td>26</td> <td>3487.75-3491.25</td> <td>3587.75-3591.25</td> </tr> <tr> <td>27</td> <td>3491.25-3494.75</td> <td>3591.25-3594.75</td> </tr> <tr> <td>28</td> <td>3494.75-3498.25</td> <td>3594.75-3598.25</td> </tr> </tbody> </table>			Ch. No.	14 MHz Blocks		1	3400.25-3414.25	3500.25-3514.25	2	3414.25-3428.25	3514.25-3528.25	3	3428.25-3442.25	3528.25-3542.25	4	3442.25-3456.25	3542.25-3556.25	5	3456.25-3470.25	3556.25-3570.25	6	3470.25-3484.25	3570.25-3584.25	7	3484.25-3498.25	3584.25-3598.25	26	3487.75-3491.25	3587.75-3591.25	27	3491.25-3494.75	3591.25-3594.75	28	3494.75-3498.25	3594.75-3598.25
Ch. No.	14 MHz Blocks																																					
1	3400.25-3414.25	3500.25-3514.25																																				
2	3414.25-3428.25	3514.25-3528.25																																				
3	3428.25-3442.25	3528.25-3542.25																																				
4	3442.25-3456.25	3542.25-3556.25																																				
5	3456.25-3470.25	3556.25-3570.25																																				
6	3470.25-3484.25	3570.25-3584.25																																				
7	3484.25-3498.25	3584.25-3598.25																																				
26	3487.75-3491.25	3587.75-3591.25																																				
27	3491.25-3494.75	3591.25-3594.75																																				
28	3494.75-3498.25	3594.75-3598.25																																				
18	3459.75-3463.25	3559.75-3563.25																																				
19	3463.25-3466.75	3563.25-3566.75																																				
20	3466.75-3470.25	3566.75-3570.25																																				
21	3470.25-3473.75	3570.25-3573.75																																				
22	3473.75-3477.25	3573.75-3577.25																																				
23	3477.25-3480.75	3577.25-3580.75																																				
24	3480.75-3484.25	3580.75-3584.25																																				
25	3484.25-3487.75	3584.25-3587.75																																				
26	3487.75-3491.25	3587.75-3591.25																																				
27	3491.25-3494.75	3591.25-3594.75																																				
28	3494.75-3498.25	3594.75-3598.25																																				

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>3580-4200 MHz</b>  POINT-TO-POINT RADIO SYSTEM	CH #  1 2 3 4 5 6 7	F  3610 3650 3690 3730 3770 3810 3850	F'  3930 3970 4010 4050 4090 4130 4170	ITU-R Rec. 635-4  Recommended RF channel arrangements for fixed wireless systems for channel spacing of 40 MHz  <i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i>  <b>NOTE: HARMFUL INTERFERENCE TO THE FIXED SATELLITE SERVICE EARTH STATIONS SHOULD BE AVOIDED WHEN ASSIGNING THESE RF CHANNELS</b>
<b>3600-4200 MHz</b>  POINT-TO-POINT RADIO SYSTEM	CH #  1 2 3 4 5 6 7	F  3620 3660 3700 3740 3780 3820 3860	F'  3940 3980 4020 4060 4100 4140 4180	ITU-R Rec. 635-4  Recommended RF channel arrangements for fixed wireless systems for channel spacing of 40 MHz  <i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i>  <b>NOTE: HARMFUL INTERFERENCE TO THE FIXED SATELLITE SERVICE EARTH STATIONS SHOULD BE AVOIDED WHEN ASSIGNING THESE RF CHANNELS</b>

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>4400-5000 MHz</b>  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rep. 287  Recommended RF channel arrangements for fixed wireless systems for channel spacing of 40 MHz  <i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i>  <b>NOTE: HARMFUL INTERFERENCE TO THE FIXED SATELLITE SERVICE EARTH STATIONS SHOULD BE AVOIDED WHEN ASSIGNING THESE RF CHANNELS</b>
	CH #	F	F'	ITU-R Rec. F.1099 Annex 3  Recommended RF channel arrangements for fixed wireless systems for channel spacing of 28 MHz  <i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i>  <b>NOTE: HARMFUL INTERFERENCE TO THE FIXED SATELLITE SERVICE EARTH STATIONS SHOULD BE AVOIDED WHEN ASSIGNING THESE RF CHANNELS</b>
	CH #	F	F'	ITU-R Rec. F.1099 Annex 3  Recommended RF channel arrangements for fixed wireless systems for channel spacing of 56 MHz  <i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i>  <b>NOTE: HARMFUL INTERFERENCE TO THE FIXED SATELLITE SERVICE EARTH STATIONS SHOULD BE AVOIDED WHEN ASSIGNING THESE RF CHANNELS</b>

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
5925-6425 MHz	CH #	F	F'	ITU-R Rec. 383-8
	1	5945.20	6197.24	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 28 MHz or 29.65 MHz  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>
	2	5974.85	6226.89	
	3	6004.50	6256.54	
	4	6034.15	6286.19	
	5	6063.80	6315.84	
	6	6093.45	6345.49	
	7	6123.10	6375.14	
	8	6152.75	6404.79	
	CH #	F	F'	
	1	5960.025	6212.065	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 56 MHz  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>
	2	5989.675	6241.715	
	2	6019.325	6271.365	
	3	6048.975	6301.015	
	4	6078.625	6330.665	
	5	6108.275	6360.315	
	6	6137.925	6389.965	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
6425-7125 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rec. 384-11
	1	6460	6800	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 40 MHz  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>
	2	6500	6840	
	3	6540	6880	
	4	6580	6920	
	5	6620	6960	
	6	6660	7000	
	7	6700	7040	
	8	6740	7080	
	CH #	F	F'	
		6540	6880	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 80 MHz
		6620	6960	
		6700	7040	



FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
7125-7425 MHz POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R F.385-10
	1	7128	7289	
	2	7135	7296	Recommended RF channel arrangements for
	3	7142	7303	fixed wireless systems for channel spacing of 7 MHz
	4	7149	7310	
	5	7156	7317	care should be taken to the outermost channels
	6	7163	7324	that might exceed the band limits
	7	7170	7331	
	8	7177	7338	<b>Previous channel arrangements may also be used for</b>
	9	7184	7345	<b>systems upgrade only, however, the use of these</b>
	10	7191	7352	<b>channel arrangements is encouraged.</b>
	11	7198	7359	
	12	7205	7366	
	13	7212	7373	
	14	7219	7380	
	15	7226	7387	
	16	7233	7394	
	17	7240	7401	
	18	7247	7408	
	19	7254	7415	
	20	7261	7422	
	CH #	F	F'	ITU-R F.385-10
	1	7131.5	7292.5	Recommended RF channel arrangements for
	2	7145.5	7306.5	fixed wireless systems for channel spacing of 14 MHz
	3	7159.5	7320.5	
	4	7173.5	7334.5	<b>Previous channel arrangements may also be used for</b>
	5	7187.5	7348.5	<b>systems upgrade only, however, the use of these</b>
	6	7201.5	7362.5	<b>channel arrangements is encouraged.</b>
	7	7215.5	7376.5	
	8	7229.5	7390.5	
	9	7243.5	7404.5	
	10	7257.5	7418.5	
	CH #	F	F'	ITU-R F.385-10
	1	7138.5	7299.5	Recommended RF channel arrangements for
	2	7166.5	7327.5	fixed wireless systems for channel spacing of 28 MHz
	3	7194.5	7355.5	
	4	7222.5	7383.5	care should be taken to the outermost channels
	5	7250.5	7411.5	that might exceed the band limits
	CH #	F	F'	ITU-R F.385-10
	1	7152.5	7313.5	Recommended RF channel arrangements for
	2	7180.5	7341.5	fixed wireless systems for channel spacing of 56 MHz
	3	7208.5	7369.5	
	4	7236.5	7397.5	care should be taken to the outermost channels
	that might exceed the band limits			
	<b>Previous channel arrangements may also be used for</b>			
	<b>systems upgrade only, however, the use of these</b>			
	<b>channel arrangements is encouraged.</b>			

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
7425-7725 MHz	CH #	F	F'	ITU-R F.385-10
	1	7428	7589	
	2	7435	7596	<p>Recommended RF channel arrangements for fixed wireless systems for channel spacing of 7 MHz</p> <p>care should be taken to the outermost channels that might exceed the band limits</p> <p><b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b></p>
	3	7442	7603	
	4	7449	7610	
	5	7456	7617	
	6	7463	7624	
	7	7470	7631	
	8	7477	7638	
	9	7484	7645	
	10	7491	7652	
	11	7498	7659	
	12	7505	7666	
	13	7512	7673	
	14	7519	7680	
	15	7526	7687	
	16	7533	7694	
	17	7540	7701	
	18	7547	7708	
	19	7554	7715	
20	7561	7722		
	1	7431.5	7592.5	
	2	7445.5	7606.5	<p>Recommended RF channel arrangements for fixed wireless systems for channel spacing of 14 MHz</p> <p><b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b></p>
	3	7459.5	7620.5	
	4	7473.5	7634.5	
	5	7487.5	7648.5	
	6	7501.5	7662.5	
	7	7515.5	7676.5	
	8	7529.5	7690.5	
	9	7543.5	7704.5	
	10	7557.5	7718.5	
	CH #	F	F'	
	1	7438.5	7599.5	<p>Recommended RF channel arrangements for fixed wireless systems for channel spacing of 28 MHz</p> <p>care should be taken to the outermost channels that might exceed the band limits</p> <p><b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b></p>
	2	7466.5	7627.5	
	3	7494.5	7655.5	
	4	7522.5	7683.5	
	5	7550.5	7711.5	
	CH #	F	F'	ITU-R F.385-10
	1	7452.5	7613.5	<p>Recommended RF channel arrangements for fixed wireless systems for channel spacing of 56 MHz</p> <p>care should be taken to the outermost channels that might exceed the band limits</p> <p><b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b></p>
	2	7480.5	7641.5	
	3	7508.5	7669.5	
	4	7536.5	7697.5	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
7725-8275 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rec. 386-8
	1	7747.70	8059.02	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 28MHz or 29.65 MHz  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>
	2	7777.35	8088.67	
	3	7807.00	8118.32	
	4	7836.65	8147.97	
	5	7866.30	8177.62	
	6	7895.95	8207.27	
	7	7925.60	8236.92	
	8	7955.25	8266.57	
	CH #	F	F'	ITU-R Rec. F.386-8 Annex 1
	1	7762.525	8073.845	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 56 MHz and channels are alternately assigned.  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>
	2	7792.175	8103.495	
	3	7821.825	8133.145	
	4	7851.475	8162.795	
	5	7881.125	8192.445	
	6	7910.775	8222.095	
	7	7940.425	8251.745	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
8275-8500 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rec. F.386-9
	1	8293.00	8412.00	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 14 MHz  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>
	2	8307.00	8426.00	
	3	8321.00	8440.00	
	4	8335.00	8454.00	
	5	8349.00	8468.00	
	6	8363.00	8482.00	
	CH #	F	F'	ITU-R Rec. F.386-9
	1	8307	8426	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 28 MHz  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>
	2	8335	8454	
	3	8363	8482	

**10150-10300 MHz/ 10500-10650 MHz**

Ch.No.	3.5 MHz Blocks		Ch.No.	7 MHz Blocks	
	1	10150.5-10154.0		10500.5-10504.0	1
2	10154.0-10157.5	10504.0-10507.5	2	10161.0-10168.0	10511.0-10518.0
3	10157.5-10161.0	10507.5-10511.0	3	10168.0-10175.0	10518.0-10525.0
4	10161.0-10164.5	10511.0-10514.5	4	10175.0-10182.0	10525.0-10532.0
5	10164.5-10168.0	10514.5-10518.0	5	10182.0-10189.0	10532.0-10539.0
6	10168.0-10171.5	10518.0-10521.5	6	10189.0-10196.0	10539.0-10546.0
7	10171.5-10175.0	10521.5-10525.0	7	10196.0-10203.0	10546.0-10553.0
8	10175.0-10178.5	10525.0-10528.5	8	10203.0-10210.0	10553.0-10560.0
9	10178.5-10182.0	10528.5-10532.0	9	10210.0-10217.0	10560.0-10567.0
10	10182.0-10185.5	10532.0-10535.5	10	10217.0-10224.0	10567.0-10574.0
11	10185.5-10189.0	10535.5-10539.0	11	10224.0-10231.0	10574.0-10581.0
12	10189.0-10192.5	10539.0-10542.5	12	10231.0-10238.0	10581.0-10588.0
13	10192.5-10196.0	10542.5-10546.0	13	10238.0-10245.0	10588.0-10595.0
14	10196.0-10199.5	10546.0-10549.5	14	10245.0-10252.0	10595.0-10602.0
15	10199.5-10203.0	10549.5-10553.0	15	10252.0-10259.0	10602.0-10609.0
16	10203.0-10206.5	10553.0-10556.5	16	10259.0-10266.0	10609.0-10616.0
17	10206.5-10210.0	10556.5-10560.0	17	10266.0-10273.0	10616.0-10623.0
18	10210.0-10213.5	10560.0-10563.5	18	10273.0-10280.0	10623.0-10630.0
19	10213.5-10217.0	10563.5-10567.0	19	10280.0-10287.0	10630.0-10637.0
20	10217.0-10220.5	10567.0-10570.5	20	10287.0-10294.0	10637.0-10644.0
21	10220.5-10224.0	10570.5-10574.0			
22	10224.0-10227.5	10574.0-10577.5			
23	10227.5-10231.0	10577.5-10581.0			
24	10231.0-10234.5	10581.0-10584.5			
25	10234.5-10238.0	10584.5-10588.0	Ch.No.	14 MHz Blocks	
26	10238.0-10241.5	10588.0-10591.5	1	10154.0-10168.0	10504.0-10518.0
27	10241.5-10245.0	10591.5-10595.0	2	10168.0-10182.0	10518.0-10532.0
28	10245.0-10248.5	10595.0-10598.5	3	10182.0-10196.0	10532.0-10546.0
29	10248.5-10252.0	10598.5-10602.0	4	10196.0-10210.0	10546.0-10560.0
30	10252.0-10255.5	10602.0-10605.5	5	10210.0-10224.0	10560.0-10574.0
31	10255.5-10259.0	10605.5-10609.0	6	10224.0-10238.0	10574.0-10588.0
32	10259.0-10262.5	10609.0-10612.5	7	10238.0-10252.0	10588.0-10602.0
33	10262.5-10266.0	10612.5-10616.0	8	10252.0-10266.0	10602.0-10616.0
34	10266.0-10269.5	10616.0-10619.5	9	10266.0-10280.0	10616.0-10630.0
35	10269.5-10273.0	10619.5-10623.0	10	10280.0-10294.0	10630.0-10644.0
36	10273.0-10276.5	10623.0-10626.5			
37	10276.5-10280.0	10626.5-10630.0			
38	10280.0-10283.5	10630.0-10633.5			
39	10283.5-10287.0	10633.5-10637.0			
40	10287.0-10290.5	10637.0-10640.5			
41	10290.5-10294.0	10640.5-10644.0			
42	10294.0-10297.5	10644.0-10647.5			

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
10500-10680 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rep. 607 (Annex I)
	1	10504	10595	Recommended RF channel arrangements for digital (120 PCM channels) radio system  8 Mbit/s
	2	10511	10602	
	3	10518	10609	
	4	10525	10616	
	5	10532	10623	
	6	10539	10630	
	7	10546	10637	
	8	10553	10644	
	9	10560	10651	
	10	10567	10658	
	11	10574	10665	
	12	10581	10672	
	CH #	F	F'	
	1	10504.00	10595.00	Recommended RF channel arrangements for digital radio systems:  60 PCM channels / 2x2 MBit/s 48 PCM channels / 2x1.5 MBit/s 30 PCM channels / 2 MBit/s 24 PCM channels / 1.5 Mbit/s
	2	10507.50	10598.50	
	3	10511.00	10602.00	
	4	10514.50	10605.50	
	5	10518.00	10609.00	
	6	10521.50	10612.50	
	7	10525.00	10616.00	
	8	10528.50	10619.50	
	9	10532.00	10623.00	
	10	10535.50	10626.50	
	11	10539.00	10630.00	
	12	10542.50	10633.50	
	13	10546.00	10637.00	
	14	10549.50	10640.50	
	15	10553.00	10644.00	
	16	10556.50	10647.50	
	17	10560.00	10651.00	
	18	10563.50	10654.50	
	19	10567.00	10658.00	
	20	10570.50	10661.50	
	21	10574.00	10665.00	
	22	10577.50	10668.50	
23	10581.00	10672.00		

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>10550-10680 MHz</b>  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	Alternate frequency arrangements for low-capacity digital radio or analog radio system of equivalent bandwidth  30 PCM channels / 2 MBit/s
	1	10551.25	10616.25	
	2	10553.75	10618.75	
	3	10556.25	10621.25	
	4	10558.75	10623.75	24 PCM channels / 1.5 MBit/s
	CH #	F	F'	
	1	10560.625	10625.625	
	2	10561.875	10626.875	
	3	10563.125	10628.125	60 PCM channels / 2x2 MBit/s
	4	10564.375	10629.375	
	CH #	F	F'	
	1	10567.5	10632.5	
	2	10572.5	10637.5	60 PCM channels / 2x2 MBit/s
	3	10577.5	10642.5	
	4	10582.5	10647.5	
	CH #	F	F'	
1	10586.25	10651.25	60 PCM channels / 2x2 MBit/s	
2	10588.75	10653.75		
3	10591.25	10656.25		
4	10593.75	10658.75		
5	10596.25	10661.25		
6	10598.75	10663.75		
7	10601.25	10666.25		
8	10603.75	10668.75		
9	10606.25	10671.25		
10	10608.75	10673.75		
11	10611.25	10676.25		
12	10613.75	10678.75		
CH #	F	F'	Alternate frequency arrangements for low-capacity digital radio or analog radio system of equivalent bandwidth  30 PCM channels / 2 MBit/s	
1	10558	10623		
2	10565	10630		
3	10572	10637		
4	10579	10644		
5	10586	10651		
6	10593	10658		
7	10600	10665		
8	10607	10672		
9	10614	10679		

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS		
10700-11700 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rec. 387-12		
	1	10715	11245	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 20 MHz  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>		
	2	10735	11265			
	3	10755	11285			
	4	10775	11305			
	5	10795	11325			
	6	10815	11345			
	7	10835	11365			
	8	10855	11385			
	9	10875	11405			
	10	10895	11425			
	11	10915	11445			
	12	10935	11465			
	13	10955	11485			
	14	10975	11505			
	15	10995	11525			
	16	11015	11545			
	17	11035	11565			
	18	11055	11585			
	19	11075	11605			
	20	11095	11625			
	21	11115	11645			
	22	11135	11665			
	23	11155	11685			
	CH #	F	F'		ITU-R Rec. 387-12	
	1	10725	11255	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 40 MHz  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>		
	2	10765	11295			
	3	10805	11335			
	4	10845	11375			
	5	10885	11415			
	6	10925	11455			
	7	10965	11495			
	8	11005	11535			
	9	11045	11575			
	10	11085	11615			
	11	11135	11625			
	12	11175	11665			
		CH #	F		F'	ITU-R Rec. 387-7 Annex 2
		1	10735		11225	Other recommended channel arrangements for fixed wireless systems for channel spacing of 40 MHz with careful consideration with other channel arrangements  <b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b>
		2	10775		11265	
		3	10815		11305	
		4	10855		11345	
		5	10895		11385	
		6	10935		11425	
		7	10975		11465	
		8	11015		11505	
		9	11055		11545	
		10	11095		11585	
11		11135	11625			

	CH #	F	F'	ITU-R Rec. 387-12
	1	10745	11275	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 80 MHz  <b><i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i></b>
	2	10825	11355	
	3	10905	11435	
	4	10985	11515	
	5	11065	11595	
	CH #	F	F'	ITU-R Rec. F.387-12 Annex 4
	1	10723	11253	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 28 MHz  <b><i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i></b>
	2	10751	11281	
	3	10779	11309	
	4	10807	11337	
	5	10835	11365	
	6	10863	11393	
	7	10891	11421	
	8	10919	11449	
	9	10947	11477	
	10	10975	11505	
	11	11003	11533	
	12	11031	11561	
	13	11059	11589	
	14	11087	11617	
	15	11115	11645	
	16	11143	11673	
	CH #	F	F'	ITU-R Rec. F.387-12 Annex 4
	1	10737	11267	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 56 MHz  <b><i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i></b>
	2	10793	11323	
	3	10849	11379	
	4	10905	11435	
	5	10961	11491	
	6	11017	11547	
	7	11073	11603	
	8	11129	11659	



FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>12750-13250 MHz</b>  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rec. 497-7  Recommended RF channel arrangements for fixed wireless systems for channel spacing of 7 MHz  A 3.5 MHz interleave plan maybe adopted for these radio system when necessary  <p style="text-align: center;"><b>NOTE: 12700-12800 MHz and 13000-13100 MHz are also allocated to BC Auxiliary Service (STL) and CARS</b></p>
	CH #	F	F'	ITU-R Rec. 497-7  Recommended RF channel arrangements for fixed wireless systems for channel spacing of 14 MHz  <p style="text-align: center;"><b>NOTE: 12700-12800 MHz and 13000-13100 MHz are also allocated to BC Auxiliary Service (STL) and CARS</b></p>

POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R F.497-7
	1	12765	13031	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 28 MHz  <b>NOTE: 12700-12800 MHz and 13000-13100 MHz are also allocated to BC Auxiliary Service (STL) and CARS</b>
	2	12793	13059	
	3	12821	13087	
	4	12849	13115	
	5	12877	13143	
	6	12905	13171	
	7	12933	13199	
	8	12961	13227	
	CH #	F	F'	ITU-R F.497-7
	1	12779	13045	Recommended channel arrangements for fixed wireless systems for channel spacing of 56 MHz  <b><i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i></b>
	2	12807	13073	
	3	12835	13101	
	4	12863	13129	
	5	12891	13157	
	6	12919	13185	
	7	12947	13213	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>14500-15350 MHz</b> POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rec. 636-4
	1	14515	14935	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 14 MHz  <b><i>Previous channel arrangements may also be used for            systems upgrade only, however, the use of these            channel arrangements is encouraged.</i></b>
	2	14529	14949	
	3	14543	14963	
	4	14557	14977	
	5	14571	14991	
	6	14585	15005	
	7	14599	15019	
	8	14613	15033	
	9	14627	15047	
	10	14641	15061	
	11	14655	15075	
	12	14669	15089	
	13	14683	15103	
	14	14697	15117	
	15	14711	15131	
	16	14725	15145	
	17	14739	15159	
	18	14753	15173	
	19	14767	15187	
	20	14781	15201	
	21	14795	15215	
	22	14809	15229	
	23	14823	15243	
	24	14837	15257	
	25	14851	15271	
	26	14865	15285	
	27	14879	15299	
	28	14893	15313	
	29	14907	15327	
	CH #	F	F'	
1	14515	14935	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 28 MHz  <b><i>Previous channel arrangements may also be used for            systems upgrade only, however, the use of these            channel arrangements is encouraged.</i></b>	
2	14543	14963		
3	14571	14991		
4	14599	15019		
5	14627	15047		
6	14655	15075		
7	14683	15103		
8	14711	15131		
9	14739	15159		
10	14767	15187		
11	14795	15215		
12	14823	15243		
13	14851	15271		
14	14879	15299		
15	14907	15327		

	CH #	F	F'	ITU-R Rec. 636-4
	1	14529	14949	Recommended RF channel arrangements for fixed wireless systems for channel spacing of 56 MHz  <i><b>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</b></i>
	2	14585	15005	
	3	14641	15061	
	4	14697	15117	
	5	14753	15173	
	6	14809	15229	
	7	14865	15285	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
17700-19700 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITUR Rec. 595-10  Recommended RF channel arrangements for for digital radio system:  480 PCM channels / 34 MBit/s  Note: 18.8-19.3 GHz band allocated to GMPCS.
	1	17727.50	18737.50	
	2	17755.00	18765.00	
	3	17782.50	18792.50	
	4	17810.00	18820.00	
	5	17837.50	18847.50	
	6	17865.00	18875.00	
	7	17892.50	18902.50	
	8	17920.00	18930.00	
	9	17947.50	18957.50	
	10	17975.00	18985.00	
	11	18002.50	19012.50	
	12	18030.00	19040.00	
	13	18057.50	19067.50	
	14	18085.00	19095.00	
	15	18112.50	19122.50	
	16	18140.00	19150.00	
	17	18167.50	19177.50	
	18	18195.00	19205.00	
	19	18222.50	19232.50	
	20	18250.00	19260.00	
	21	18277.50	19287.50	
	22	18305.00	19315.00	
	23	18332.50	19342.50	
	24	18360.00	19370.00	
	25	18387.50	19397.50	
	26	18415.00	19425.00	
	27	18442.50	19452.50	
	28	18470.00	19480.00	
	29	18497.50	19507.50	
	30	18525.00	19535.00	
	31	18552.50	19562.50	
	32	18580.00	19590.00	
	33	18607.50	19617.50	
	34	18635.00	19645.00	
	35	18662.50	19672.50	

	CH #	F	F'	ITUR Rec. 595-10
	1	17755.00	18765.00	Recommended RF channel arrangements for for digital radio system:  140 MBit/s
	2	17810.00	18820.00	
	3	17865.00	18875.00	
	4	17920.00	18930.00	
	5	17975.00	18985.00	
	6	18030.00	19040.00	
	7	18085.00	19095.00	
	8	18140.00	19150.00	
	9	18195.00	19205.00	
	10	18250.00	19260.00	
	11	18305.00	19315.00	
	12	18360.00	19370.00	
	13	18415.00	19425.00	
	14	18470.00	19480.00	
	15	18525.00	19535.00	
	16	18580.00	19590.00	
	17	18635.00	19645.00	
	CH #	F	F'	ITUR Rec. 595-10
	1	17810.00	18820.00	Recommended RF channel arrangements for for digital radio system:  280 MBit/s
	2	17920.00	18930.00	
	3	18030.00	19040.00	
	4	18140.00	19150.00	
	5	18250.00	19260.00	
	6	18360.00	19370.00	
	7	18470.00	19480.00	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>21200-23600 MHz</b>  POINT-TO-POINT RADIO SYSTEM  FOR SUB-BANDS:  21238-21882 MHz 22470-23114 MHz	CH #	F	F'	ITU-R Rec. 637 (Annex IV)  Recommended RF channel arrangements for digital radio system:  480 PCM channels / 34 MBit/s
	CH #	F	F'	ITU-R Rec. 637 -4 Annex 1  Recommended RF channel arrangements for fixed wireless systems for channel spacing of 56 MHz  <i>Previous channel arrangements may also be used for systems upgrade only, however, the use of these channel arrangements is encouraged.</i>

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>21200-23600 MHz</b>  POINT-TO-POINT RADIO SYSTEM  FOR SUB-BANDS:  21897-22006 MHz 23129-23238 MHz	CH #  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	F  21897.75 21901.25 21904.75 21908.25 21911.75 21915.25 21918.75 21922.25 21925.75 21929.25 21932.75 21936.25 21939.75 21943.25 21946.75 21950.25 21953.75 21957.25 21960.75 21964.25 21967.75 21971.25 21974.75 21978.25 21981.75 21985.25 21988.75 21992.25 21995.75 21999.25 22002.75 22006.25	F'  23129.75 23133.25 23136.75 23140.25 23143.75 23147.25 23150.75 23154.25 23157.75 23161.25 23164.75 23168.25 23171.75 23175.25 23178.75 23182.25 23185.75 23189.25 23192.75 23196.25 23199.75 23203.25 23206.75 23210.25 23213.75 23217.25 23220.75 23224.25 23227.75 23231.25 23234.75 23238.25	ITU-R Rec. 637 (Annex IV)  Recommended RF channel arrangements for for digital radio system:  30 PCM channels/2MBit/s 24 PCM channels/1.5MBit/s
FOR SUB-BANDS:  22011-22116 MHz 23243-23348 MHz	CH #  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	F  22011.5 22018.5 22025.5 22032.5 22039.5 22046.5 22053.5 22060.5 22067.5 22074.5 22081.5 22088.5 22095.5 22102.5 22109.5 22116.5	F'  23243.5 23250.5 23257.5 23264.5 23271.5 23278.5 23285.5 23292.5 23299.5 23306.5 23313.5 23320.5 23327.5 23334.5 23341.5 23348.5	ITU-R Rec. 637 (Annex IV)  Recommended RF channel arrangements for for digital radio system:  60 PCM channels/2x2MBit/s



FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>21200-23600 MHz</b>  POINT-TO-POINT RADIO SYSTEM  FOR SUB-BANDS:  22127-22337 MHz 23359-23569 MHz	CH #  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	F  22127 22141 22155 22169 22183 22197 22211 22225 22239 22253 22267 22281 22295 22309 22323 22337	F'  23359 23373 23387 23401 23415 23429 23443 23457 23471 23485 23499 23513 23527 23541 23555 23569	ITU-R Rec. 637 (Annex IV)  Recommended RF channel arrangements for for digital radio system:  120 PCM channels / 8 MBit/s  7 MHz interleave channels may also be adopted. Interleave channels are 7 MHz above the regular RF channels

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>24.5 - 26.5 GHz</b> Point-to-point or Point-to-Multipoint Radio Systems	CH#	F	F'	Rec. ITU-R.F.748-4 Annex 1  Recommended RF channel arrangements for systems in the fixed service for channel spacing of 112 MHz
	1	24605	25613	
	2	24717	25725	
	3	24829	25837	
	4	24941	25949	
	5	25053	26061	
	6	25165	26173	
	7	25277	26285	
	8	25389	26397	
	CH#	F	F'	Rec. ITU-R.F.748-4 Annex 1  Recommended RF channel arrangements for systems in the fixed service for channel spacing of 56 MHz
	1	24577	25585	
	2	24633	25641	
	3	24689	25697	
	4	24745	25753	
	5	24801	25809	
	6	24857	25865	
	7	24913	25921	
	8	24969	25977	
	9	25025	26033	
	10	25081	26089	
	11	25137	26145	
	12	25193	26201	
	13	25249	26257	
	14	25305	26313	
	15	25361	26369	
	16	25417	26425	
	CH#	F	F'	Rec. ITU-R.F.748-4 Annex 1  Recommended RF channel arrangements for systems in the fixed service for channel spacing of 28 MHz
	1	24563	25571	
	2	24591	25599	
	3	24619	25627	
	4	24647	25655	
	5	24675	25683	
	6	24703	25711	
	7	24731	25739	
	8	24759	25767	
	9	24787	25795	
	10	24815	25823	
	11	24843	25851	
	12	24871	25879	
	13	24899	25907	
	14	24927	25935	
	15	24955	25963	
	16	24983	25991	
	17	25011	26019	
	18	25039	26047	
	19	25067	26075	
	20	25095	26103	
	21	25123	26131	
	22	25151	26159	
	23	25179	26187	
	24	25207	26215	
	25	25235	26243	
	26	25263	26271	
	27	25291	26299	
	28	25319	26327	

	29	25347	26355	
	30	25375	26383	
	31	25403	26411	
	32	25431	26439	
	CH#	F	F'	Rec. ITU-R.F.748-4 Annex 1
	1	24556	25564	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 14 MHz
	2	24570	25578	
	3	24584	25592	
	4	24598	25606	
	5	24612	25620	
	6	24626	25634	
	7	24640	25648	
	8	24654	25662	
	9	24668	25676	
	10	24682	25690	
	11	24696	25704	
	12	24710	25718	
	13	24724	25732	
	14	24738	25746	
	15	24752	25760	
	16	24766	25774	
	17	24780	25788	
	18	24794	25802	
	19	24808	25816	
	20	24822	25830	
	21	24836	25844	
	22	24850	25858	
	23	24864	25872	
	24	24878	25886	
	25	24892	25900	
	26	24906	25914	
	27	24920	25928	
	28	24934	25942	
	29	24948	25956	
	30	24962	25970	
	31	24976	25984	
	32	24990	25998	
	33	25004	26012	
	34	25018	26026	
	35	25032	26040	
	36	25046	26054	
	37	25060	26068	
	38	25074	26082	
	39	25088	26096	
	40	25102	26110	
	41	25116	26124	
	42	25130	26138	
	43	25144	26152	
	44	25158	26166	
	45	25172	26180	
	46	25186	26194	
	47	25200	26208	
	48	25214	26222	
	49	25228	26236	
	50	25242	26250	
	51	25256	26264	
	52	25270	26278	
	53	25284	26292	
	54	25298	26306	

	55	25312	26320	
	56	25326	26334	
	57	25340	26348	
	58	25354	26362	
	59	25368	26376	
	60	25382	26390	
	61	25396	26404	
	62	25410	26418	
	63	25424	26432	
	64	25438	26446	
	CH#	F	F'	Rec. ITU-R.F.748-4 Annex 1
	1	24552.5	25560.5	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 7 MHz
	2	24559.5	25567.5	
	3	24566.5	25574.5	
	4	24573.5	25581.5	
	5	24580.5	25588.5	
	6	24587.5	25595.5	
	7	24594.5	25602.5	
	8	24601.5	25609.5	
	9	24608.5	25616.5	
	10	24615.5	25623.5	
	11	24622.5	25630.5	
	12	24629.5	25637.5	
	13	24636.5	25644.5	
	14	24643.5	25651.5	
	15	24650.5	25658.5	
	16	24657.5	25665.5	
	17	24664.5	25672.5	
	18	24671.5	25679.5	
	19	24678.5	25686.5	
	20	24685.5	25693.5	
	21	24692.5	25700.5	
	22	24699.5	25707.5	
	23	24706.5	25714.5	
	24	24713.5	25721.5	
	25	24720.5	25728.5	
	26	24727.5	25735.5	
	27	24734.5	25742.5	
	28	24741.5	25749.5	
	29	24748.5	25756.5	
	30	24755.5	25763.5	
	31	24762.5	25770.5	
	32	24769.5	25777.5	
	33	24776.5	25784.5	
	34	24783.5	25791.5	
	35	24790.5	25798.5	
	36	24797.5	25805.5	
	37	24804.5	25812.5	
	38	24811.5	25819.5	
	39	24818.5	25826.5	
	40	24825.5	25833.5	
	41	24832.5	25840.5	
	42	24839.5	25847.5	
	43	24846.5	25854.5	
	44	24853.5	25861.5	
	45	24860.5	25868.5	
	46	24867.5	25875.5	
	47	24874.5	25882.5	
	48	24881.5	25889.5	

49	24888.5	25896.5
50	24895.5	25903.5
51	24902.5	25910.5
52	24909.5	25917.5
53	24916.5	25924.5
54	24923.5	25931.5
55	24930.5	25938.5
56	24937.5	25945.5
57	24944.5	25952.5
58	24951.5	25959.5
59	24958.5	25966.5
60	24965.5	25973.5
61	24972.5	25980.5
62	24979.5	25987.5
63	24986.5	25994.5
64	24993.5	26001.5
65	25000.5	26008.5
66	25007.5	26015.5
67	25014.5	26022.5
68	25021.5	26029.5
69	25028.5	26036.5
70	25035.5	26043.5
71	25042.5	26050.5
72	25049.5	26057.5
73	25056.5	26064.5
74	25063.5	26071.5
75	25070.5	26078.5
76	25077.5	26085.5
77	25084.5	26092.5
78	25091.5	26099.5
79	25098.5	26106.5
80	25105.5	26113.5
81	25112.5	26120.5
82	25119.5	26127.5
83	25126.5	26134.5
84	25133.5	26141.5
85	25140.5	26148.5
86	25147.5	26155.5
87	25154.5	26162.5
88	25161.5	26169.5
89	25168.5	26176.5
90	25175.5	26183.5
91	25182.5	26190.5
92	25189.5	26197.5
93	25196.5	26204.5
94	25203.5	26211.5
95	25210.5	26218.5
96	25217.5	26225.5
97	25224.5	26232.5
98	25231.5	26239.5
99	25238.5	26246.5
100	25245.5	26253.5
101	25252.5	26260.5
102	25259.5	26267.5
103	25266.5	26274.5
104	25273.5	26281.5
105	25280.5	26288.5
106	25287.5	26295.5

	107	25294.5	26302.5	
	108	25301.5	26309.5	
	109	25308.5	26316.5	
	110	25315.5	26323.5	
	111	25322.5	26330.5	
	112	25329.5	26337.5	
	113	25336.5	26344.5	
	114	25343.5	26351.5	
	115	25350.5	26358.5	
	116	25357.5	26365.5	
	117	25364.5	26372.5	
	118	25371.5	26379.5	
	119	25378.5	26386.5	
	120	25385.5	26393.5	
	121	25392.5	26400.5	
	122	25399.5	26407.5	
	123	25406.5	26414.5	
	124	25413.5	26421.5	
	125	25420.5	26428.5	
	126	25427.5	26435.5	
	127	25434.5	26442.5	
	128	25441.5	26449.5	

CH#	F	F'	Rec. ITU-R.F.748-4 Annex 1
1	24550.75	25558.75	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 3.5 MHz
2	24554.25	25562.25	
3	24557.75	25565.75	
4	24561.25	25569.25	
5	24564.75	25572.75	
6	24568.25	25576.25	
7	24571.75	25579.75	
8	24575.25	25583.25	
9	24578.75	25586.75	
10	24582.25	25590.25	
11	24585.75	25593.75	
12	24589.25	25597.25	
13	24592.75	25600.75	
14	24596.25	25604.25	
15	24599.75	25607.75	
16	24603.25	25611.25	
17	24606.75	25614.75	
18	24610.25	25618.25	
19	24613.75	25621.75	
20	24617.25	25625.25	
21	24620.75	25628.75	
22	24624.25	25632.25	
23	24627.75	25635.75	
24	24631.25	25639.25	
25	24634.75	25642.75	
26	24638.25	25646.25	
27	24641.75	25649.75	
28	24645.25	25653.25	
29	24648.75	25656.75	
30	24652.25	25660.25	
31	24655.75	25663.75	
32	24659.25	25667.25	
33	24662.75	25670.75	
34	24666.25	25674.25	
35	24669.75	25677.75	
36	24673.25	25681.25	

37	24676.75	25684.75
38	24680.25	25688.25
39	24683.75	25691.75
40	24687.25	25695.25
41	24690.75	25698.75
42	24694.25	25702.25
43	24697.75	25705.75
44	24701.25	25709.25
45	24704.75	25712.75
46	24708.25	25716.25
47	24711.75	25719.75
48	24715.25	25723.25
49	24718.75	25726.75
50	24722.25	25730.25
51	24725.75	25733.75
52	24729.25	25737.25
53	24732.75	25740.75
54	24736.25	25744.25
55	24739.75	25747.75
56	24743.25	25751.25
57	24746.75	25754.75
58	24750.25	25758.25
59	24753.75	25761.75
60	24757.25	25765.25
61	24760.75	25768.75
62	24764.25	25772.25
63	24767.75	25775.75
64	24771.25	25779.25
65	24774.75	25782.75
66	24778.25	25786.25
67	24781.75	25789.75
68	24785.25	25793.25
69	24788.75	25796.75
70	24792.25	25800.25
71	24795.75	25803.75
72	24799.25	25807.25
73	24802.75	25810.75
74	24806.25	25814.25
75	24809.75	25817.75
76	24813.25	25821.25
77	24816.75	25824.75
78	24820.25	25828.25
79	24823.75	25831.75
80	24827.25	25835.25
81	24830.75	25838.75
82	24834.25	25842.25
83	24837.75	25845.75
84	24841.25	25849.25
85	24844.75	25852.75
86	24848.25	25856.25
87	24851.75	25859.75
88	24855.25	25863.25
89	24858.75	25866.75
90	24862.25	25870.25
91	24865.75	25873.75
92	24869.25	25877.25
93	24872.75	25880.75
94	24876.25	25884.25

95	24879.75	25887.75
96	24883.25	25891.25
97	24886.75	25894.75
98	24890.25	25898.25
99	24893.75	25901.75
100	24897.25	25905.25
101	24900.75	25908.75
102	24904.25	25912.25
103	24907.75	25915.75
104	24911.25	25919.25
105	24914.75	25922.75
106	24918.25	25926.25
107	24921.75	25929.75
108	24925.25	25933.25
109	24928.75	25936.75
110	24932.25	25940.25
111	24935.75	25943.75
112	24939.25	25947.25
113	24942.75	25950.75
114	24946.25	25954.25
115	24949.75	25957.75
116	24953.25	25961.25
117	24956.75	25964.75
118	24960.25	25968.25
119	24963.75	25971.75
120	24967.25	25975.25
121	24970.75	25978.75
122	24974.25	25982.25
123	24977.75	25985.75
124	24981.25	25989.25
125	24984.75	25992.75
126	24988.25	25996.25
127	24991.75	25999.75
128	24995.25	26003.25
129	24998.75	26006.75
130	25002.25	26010.25
131	25005.75	26013.75
132	25009.25	26017.25
133	25012.75	26020.75
134	25016.25	26024.25
135	25019.75	26027.75
136	25023.25	26031.25
137	25026.75	26034.75
138	25030.25	26038.25
139	25033.75	26041.75
140	25037.25	26045.25
141	25040.75	26048.75
142	25044.25	26052.25
143	25047.75	26055.75
144	25051.25	26059.25
145	25054.75	26062.75
146	25058.25	26066.25
147	25061.75	26069.75
148	25065.25	26073.25
149	25068.75	26076.75
150	25072.25	26080.25
151	25075.75	26083.75
152	25079.25	26087.25



153	25082.75	26090.75
154	25086.25	26094.25
155	25089.75	26097.75
156	25093.25	26101.25
157	25096.75	26104.75
158	25100.25	26108.25
159	25103.75	26111.75
160	25107.25	26115.25
161	25110.75	26118.75
162	25114.25	26122.25
163	25117.75	26125.75
164	25121.25	26129.25
165	25124.75	26132.75
166	25128.25	26136.25
167	25131.75	26139.75
168	25135.25	26143.25
169	25138.75	26146.75
170	25142.25	26150.25
171	25145.75	26153.75
172	25149.25	26157.25
173	25152.75	26160.75
174	25156.25	26164.25
175	25159.75	26167.75
176	25163.25	26171.25
177	25166.75	26174.75
178	25170.25	26178.25
179	25173.75	26181.75
180	25177.25	26185.25
181	25180.75	26188.75
182	25184.25	26192.25
183	25187.75	26195.75
184	25191.25	26199.25
185	25194.75	26202.75
186	25198.25	26206.25
187	25201.75	26209.75
188	25205.25	26213.25
189	25208.75	26216.75
190	25212.25	26220.25
191	25215.75	26223.75
192	25219.25	26227.25
193	25222.75	26230.75
194	25226.25	26234.25
195	25229.75	26237.75
196	25233.25	26241.25
197	25236.75	26244.75
198	25240.25	26248.25
199	25243.75	26251.75
200	25247.25	26255.25
201	25250.75	26258.75
202	25254.25	26262.25
203	25257.75	26265.75
204	25261.25	26269.25
205	25264.75	26272.75
206	25268.25	26276.25
207	25271.75	26279.75
208	25275.25	26283.25
209	25278.75	26286.75
210	25282.25	26290.25

211	25285.75	26293.75
212	25289.25	26297.25
213	25292.75	26300.75
214	25296.25	26304.25
215	25299.75	26307.75
216	25303.25	26311.25
217	25306.75	26314.75
218	25310.25	26318.25
219	25313.75	26321.75
220	25317.25	26325.25
221	25320.75	26328.75
222	25324.25	26332.25
223	25327.75	26335.75
224	25331.25	26339.25
225	25334.75	26342.75
226	25338.25	26346.25
227	25341.75	26349.75
228	25345.25	26353.25
229	25348.75	26356.75
230	25352.25	26360.25
231	25355.75	26363.75
232	25359.25	26367.25
233	25362.75	26370.75
234	25366.25	26374.25
235	25369.75	26377.75
236	25373.25	26381.25
237	25376.75	26384.75
238	25380.25	26388.25
239	25383.75	26391.75
240	25387.25	26395.25
241	25390.75	26398.75
242	25394.25	26402.25
243	25397.75	26405.75
244	25401.25	26409.25
245	25404.75	26412.75
246	25408.25	26416.25
247	25411.75	26419.75
248	25415.25	26423.25
249	25418.75	26426.75
250	25422.25	26430.25
251	25425.75	26433.75
252	25429.25	26437.25
253	25432.75	26440.75
254	25436.25	26444.25
255	25439.75	26447.75
256	25443.25	26451.25

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>27.5 - 29.5 GHz</b> Point-to-point or Point-to-Multipoint Radio Systems	CH#	F	F'	Rec. ITU-R.F-748-4 Annex 2  Recommended RF channel arrangements for systems in the fixed service for channel spacing of 112 MHz
	1	27604.5	28612.5	
	2	27716.5	28724.5	
	3	27828.5	28836.5	
	4	27940.5	28948.5	
	5	28052.5	29060.5	
	6	28164.5	29172.5	
	7	28276.5	29284.5	
	CH#	F	F'	Rec. ITU-R.F-748-4 Annex 2  Recommended RF channel arrangements for systems in the fixed service for channel spacing of 56 MHz
	1	27576.5	28584.5	
	2	27632.5	28640.5	
	3	27688.5	28696.5	
	4	27744.5	28752.5	
	5	27800.5	28808.5	
	6	27856.5	28864.5	
	7	27912.5	28920.5	
	8	27968.5	28976.5	
	9	28024.5	29032.5	
	10	28080.5	29088.5	
	11	28136.5	29144.5	
	12	28192.5	29200.5	
	13	28248.5	29256.5	
	14	28304.5	29312.5	
		CH#	F	
1		27562.5	28570.5	
2		27590.5	28598.5	
3		27618.5	28626.5	
4		27646.5	28654.5	
5		27674.5	28682.5	
6		27702.5	28710.5	
7		27730.5	28738.5	
8		27758.5	28766.5	
9		27786.5	28794.5	
10		27814.5	28822.5	
11		27842.5	28850.5	
12		27870.5	28878.5	
13		27898.5	28906.5	
14		27926.5	28934.5	
15		27954.5	28962.5	
16		27982.5	28990.5	
17		28010.5	29018.5	
18		28038.5	29046.5	
19		28066.5	29074.5	
20		28094.5	29102.5	
21	28122.5	29130.5		
	22	28150.5	29158.5	
	23	28178.5	29186.5	
	24	28206.5	29214.5	
	25	28234.5	29242.5	
	26	28262.5	29270.5	
	27	28290.5	29298.5	
	28	28318.5	29326.5	

	29	28346.5	29354.5	
	30	28374.5	29382.5	
	31	28402.5	29410.5	
	32	28430.5	29438.5	
	CH#	F	F'	Rec. ITU-R.F-748-4 Annex 2
	1	27555.5	28563.5	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 14 MHz
	2	27569.5	28577.5	
	3	27583.5	28591.5	
	4	27597.5	28605.5	
	5	27611.5	28619.5	
	6	27625.5	28633.5	
	7	27639.5	28647.5	
	8	27653.5	28661.5	
	9	27667.5	28675.5	
	10	27681.5	28689.5	
	11	27695.5	28703.5	
	12	27709.5	28717.5	
	13	27723.5	28731.5	
	14	27737.5	28745.5	
	15	27751.5	28759.5	
	16	27765.5	28773.5	
	17	27779.5	28787.5	
	18	27793.5	28801.5	
	19	27807.5	28815.5	
	20	27821.5	28829.5	
	21	27835.5	28843.5	
	22	27849.5	28857.5	
	23	27863.5	28871.5	
	24	27877.5	28885.5	
	25	27891.5	28899.5	
	26	27905.5	28913.5	
	27	27919.5	28927.5	
	28	27933.5	28941.5	
	29	27947.5	28955.5	
	30	27961.5	28969.5	
	31	27975.5	28983.5	
	32	27989.5	28997.5	
	33	28003.5	29011.5	
	34	28017.5	29025.5	
	35	28031.5	29039.5	
	36	28045.5	29053.5	
	37	28059.5	29067.5	
	38	28073.5	29081.5	
	39	28087.5	29095.5	
	40	28101.5	29109.5	
	41	28115.5	29123.5	
	42	28129.5	29137.5	
	43	28143.5	29151.5	
	44	28157.5	29165.5	
	45	28171.5	29179.5	
	46	28185.5	29193.5	
	47	28199.5	29207.5	
	48	28213.5	29221.5	
	49	28227.5	29235.5	
	50	28241.5	29249.5	
	51	28255.5	29263.5	
	52	28269.5	29277.5	
	53	28283.5	29291.5	
	54	28297.5	29305.5	

	55	28311.5	29319.5	
	56	28325.5	29333.5	
	57	28339.5	29347.5	
	58	28353.5	29361.5	
	59	28367.5	29375.5	
	60	28381.5	29389.5	
	61	28395.5	29403.5	
	62	28409.5	29417.5	
	63	28423.5	29431.5	
	64	28437.5	29445.5	
	CH#	F	F'	Rec. ITU-R.F-748-4 Annex 2
	1	27552	28560	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 7 MHz
	2	27559	28567	
	3	27566	28574	
	4	27573	28581	
	5	27580	28588	
	6	27587	28595	
	7	27594	28602	
	8	27601	28609	
	9	27608	28616	
	10	27615	28623	
	11	27622	28630	
	12	27629	28637	
	13	27636	28644	
	14	27643	28651	
	15	27650	28658	
	16	27657	28665	
	17	27664	28672	
	18	27671	28679	
	19	27678	28686	
	20	27685	28693	
	21	27692	28700	
	22	27699	28707	
	23	27706	28714	
	24	27713	28721	
	25	27720	28728	
	26	27727	28735	
	27	27734	28742	
	28	27741	28749	
	29	27748	28756	
	30	27755	28763	
	31	27762	28770	
	32	27769	28777	
	33	27776	28784	
	34	27783	28791	
	35	27790	28798	
	36	27797	28805	
	37	27804	28812	
	38	27811	28819	
	39	27818	28826	
	40	27825	28833	
	41	27832	28840	
	42	27839	28847	
	43	27846	28854	
	44	27853	28861	
	45	27860	28868	
	46	27867	28875	
	47	27874	28882	
	48	27881	28889	

49	27888	28896
50	27895	28903
51	27902	28910
52	27909	28917
53	27916	28924
54	27923	28931
55	27930	28938
56	27937	28945
57	27944	28952
58	27951	28959
59	27958	28966
60	27965	28973
61	27972	28980
62	27979	28987
63	27986	28994
64	27993	29001
65	28000	29008
66	28007	29015
67	28014	29022
68	28021	29029
69	28028	29036
70	28035	29043
71	28042	29050
72	28049	29057
73	28056	29064
74	28063	29071
75	28070	29078
76	28077	29085
77	28084	29092
78	28091	29099
79	28098	29106
80	28105	29113
81	28112	29120
82	28119	29127
83	28126	29134
84	28133	29141
85	28140	29148
86	28147	29155
87	28154	29162
88	28161	29169
89	28168	29176
90	28175	29183
91	28182	29190
92	28189	29197
93	28196	29204
94	28203	29211
95	28210	29218
96	28217	29225
97	28224	29232
98	28231	29239
99	28238	29246
100	28245	29253
101	28252	29260
102	28259	29267
103	28266	29274
104	28273	29281
105	28280	29288
106	28287	29295

	107	28294	29302	
	108	28301	29309	
	109	28308	29316	
	110	28315	29323	
	111	28322	29330	
	112	28329	29337	
	113	28336	29344	
	114	28343	29351	
	115	28350	29358	
	116	28357	29365	
	117	28364	29372	
	118	28371	29379	
	119	28378	29386	
	120	28385	29393	
	121	28392	29400	
	122	28399	29407	
	123	28406	29414	
	124	28413	29421	
	125	28420	29428	
	126	28427	29435	
	127	28434	29442	
	128	28441	29449	
	CH#	F	F'	Rec. ITU-R.F-748-4 Annex 2
	1	27550.25	28558.25	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 3.5 MHz
	2	27553.75	28561.75	
	3	27557.25	28565.25	
	4	27560.75	28568.75	
	5	27564.25	28572.25	
	6	27567.75	28575.75	
	7	27571.25	28579.25	
	8	27574.75	28582.75	
	9	27578.25	28586.25	
	10	27581.75	28589.75	
	11	27585.25	28593.25	
	12	27588.75	28596.75	
	13	27592.25	28600.25	
	14	27595.75	28603.75	
	15	27599.25	28607.25	
	16	27602.75	28610.75	
	17	27606.25	28614.25	
	18	27609.75	28617.75	
	19	27613.25	28621.25	
	20	27616.75	28624.75	
	21	27620.25	28628.25	
	22	27623.75	28631.75	
	23	27627.25	28635.25	
	24	27630.75	28638.75	
	25	27634.25	28642.25	
	26	27637.75	28645.75	
	27	27641.25	28649.25	
	28	27644.75	28652.75	
	29	27648.25	28656.25	
	30	27651.75	28659.75	
	31	27655.25	28663.25	
	32	27658.75	28666.75	
	33	27662.25	28670.25	
	34	27665.75	28673.75	

35	27669.25	28677.25
36	27672.75	28680.75
37	27676.25	28684.25
38	27679.75	28687.75
39	27683.25	28691.25
40	27686.75	28694.75
41	27690.25	28698.25
42	27693.75	28701.75
43	27697.25	28705.25
44	27700.75	28708.75
45	27704.25	28712.25
46	27707.75	28715.75
47	27711.25	28719.25
48	27714.75	28722.75
49	27718.25	28726.25
50	27721.75	28729.75
51	27725.25	28733.25
52	27728.75	28736.75
53	27732.25	28740.25
54	27735.75	28743.75
55	27739.25	28747.25
56	27742.75	28750.75
57	27746.25	28754.25
58	27749.75	28757.75
59	27753.25	28761.25
60	27756.75	28764.75
61	27760.25	28768.25
62	27763.75	28771.75
63	27767.25	28775.25
64	27770.75	28778.75
65	27774.25	28782.25
66	27777.75	28785.75
67	27781.25	28789.25
68	27784.75	28792.75
69	27788.25	28796.25
70	27791.75	28799.75
71	27795.25	28803.25
72	27798.75	28806.75
73	27802.25	28810.25
74	27805.75	28813.75
75	27809.25	28817.25
76	27812.75	28820.75
77	27816.25	28824.25
78	27819.75	28827.75
79	27823.25	28831.25
80	27826.75	28834.75
81	27830.25	28838.25
82	27833.75	28841.75
83	27837.25	28845.25
84	27840.75	28848.75
85	27844.25	28852.25
86	27847.75	28855.75
87	27851.25	28859.25
88	27854.75	28862.75
89	27858.25	28866.25
90	27861.75	28869.75
91	27865.25	28873.25
92	27868.75	28876.75



93	27872.25	28880.25
94	27875.75	28883.75
95	27879.25	28887.25
96	27882.75	28890.75
97	27886.25	28894.25
98	27889.75	28897.75
99	27893.25	28901.25
100	27896.75	28904.75
101	27900.25	28908.25
102	27903.75	28911.75
103	27907.25	28915.25
104	27910.75	28918.75
105	27914.25	28922.25
106	27917.75	28925.75
107	27921.25	28929.25
108	27924.75	28932.75
109	27928.25	28936.25
110	27931.75	28939.75
111	27935.25	28943.25
112	27938.75	28946.75
113	27942.25	28950.25
114	27945.75	28953.75
115	27949.25	28957.25
116	27952.75	28960.75
117	27956.25	28964.25
118	27959.75	28967.75
119	27963.25	28971.25
120	27966.75	28974.75
121	27970.25	28978.25
122	27973.75	28981.75
123	27977.25	28985.25
124	27980.75	28988.75
125	27984.25	28992.25
126	27987.75	28995.75
127	27991.25	28999.25
128	27994.75	29002.75
129	27998.25	29006.25
130	28001.75	29009.75
131	28005.25	29013.25
132	28008.75	29016.75
133	28012.25	29020.25
134	28015.75	29023.75
135	28019.25	29027.25
136	28022.75	29030.75
137	28026.25	29034.25
138	28029.75	29037.75
139	28033.25	29041.25
140	28036.75	29044.75
141	28040.25	29048.25
142	28043.75	29051.75
143	28047.25	29055.25
144	28050.75	29058.75
145	28054.25	29062.25
146	28057.75	29065.75
147	28061.25	29069.25
148	28064.75	29072.75
149	28068.25	29076.25
150	28071.75	29079.75

151	28075.25	29083.25
152	28078.75	29086.75
153	28082.25	29090.25
154	28085.75	29093.75
155	28089.25	29097.25
156	28092.75	29100.75
157	28096.25	29104.25
158	28099.75	29107.75
159	28103.25	29111.25
160	28106.75	29114.75
161	28110.25	29118.25
162	28113.75	29121.75
163	28117.25	29125.25
164	28120.75	29128.75
165	28124.25	29132.25
166	28127.75	29135.75
167	28131.25	29139.25
168	28134.75	29142.75
169	28138.25	29146.25
170	28141.75	29149.75
171	28145.25	29153.25
172	28148.75	29156.75
173	28152.25	29160.25
174	28155.75	29163.75
175	28159.25	29167.25
176	28162.75	29170.75
177	28166.25	29174.25
178	28169.75	29177.75
179	28173.25	29181.25
180	28176.75	29184.75
181	28180.25	29188.25
182	28183.75	29191.75
183	28187.25	29195.25
184	28190.75	29198.75
185	28194.25	29202.25
186	28197.75	29205.75
187	28201.25	29209.25
188	28204.75	29212.75
189	28208.25	29216.25
190	28211.75	29219.75
191	28215.25	29223.25
192	28218.75	29226.75
193	28222.25	29230.25
194	28225.75	29233.75
195	28229.25	29237.25
196	28232.75	29240.75
197	28236.25	29244.25
198	28239.75	29247.75
199	28243.25	29251.25
200	28246.75	29254.75
201	28250.25	29258.25
202	28253.75	29261.75
203	28257.25	29265.25
204	28260.75	29268.75
205	28264.25	29272.25
206	28267.75	29275.75
207	28271.25	29279.25
208	28274.75	29282.75

209	28278.25	29286.25
210	28281.75	29289.75
211	28285.25	29293.25
212	28288.75	29296.75
213	28292.25	29300.25
214	28295.75	29303.75
215	28299.25	29307.25
216	28302.75	29310.75
217	28306.25	29314.25
218	28309.75	29317.75
219	28313.25	29321.25
220	28316.75	29324.75
221	28320.25	29328.25
222	28323.75	29331.75
223	28327.25	29335.25
224	28330.75	29338.75
225	28334.25	29342.25
226	28337.75	29345.75
227	28341.25	29349.25
228	28344.75	29352.75
229	28348.25	29356.25
230	28351.75	29359.75
231	28355.25	29363.25
232	28358.75	29366.75
233	28362.25	29370.25
234	28365.75	29373.75
235	28369.25	29377.25
236	28372.75	29380.75
237	28376.25	29384.25
238	28379.75	29387.75
239	28383.25	29391.25
240	28386.75	29394.75
241	28390.25	29398.25
242	28393.75	29401.75
243	28397.25	29405.25
244	28400.75	29408.75
245	28404.25	29412.25
246	28407.75	29415.75
247	28411.25	29419.25
248	28414.75	29422.75
249	28418.25	29426.25
250	28421.75	29429.75
251	28425.25	29433.25
252	28428.75	29436.75
253	28432.25	29440.25
254	28435.75	29443.75
255	28439.25	29447.25
256	28442.75	29450.75

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>24.25 - 25.25 GHz</b> Point-to-point or Point-to-Multipoint Systems	CH#	F	F'	Rec. ITU-R.F-748-4 Annex 3
	1	24250-24290	25050-25090	Recommended RF block channel arrangements for fixed wireless systems (40 MHz blocks)
	2	24290-24330	25090-25130	
	3	24330-24370	25130-25170	
	4	24370-24410	25170-25210	
	5	24410-24450	25210-25250	
TDD Systems may operate in either the lower or the upper frequency blocks				
<b>25.27 - 26.98 GHz</b> Point-to-point or Point-to-Multipoint Systems	CH#	F	F'	Rec. ITU-R.F-748-4 Annex 3
	1	25270-25330	26125-26185	Recommended RF block channel arrangements for fixed wireless systems 60 MHz blocks
	2	25330-25390	26185-26245	
	3	25390-25450	26245-26305	
	4	25450-25510	26305-26365	
	5	25510-25570	26365-26425	
	6	25570-25630	26425-26485	
	7	25630-25690	26485-26545	TDD Systems may operate in either the lower or the upper frequency blocks
	8	25690-25750	26545-26605	
	9	25750-25810	26605-26665	
	10	25810-25870	26665-26725	
	11	25945-26005	26800-26860	
	12	26005-26065	26860-26920	
	13	26065-26125	26920-26980	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>31.8 - 33.4 GHz</b> Point-to-point or Point-to-Multipoint Radio Systems	CH#	F	F'	Rec. ITU-R.F.1520-3
	1	31927	32739	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 112 MHz
	2	32039	32851	
	3	32151	32963	
	4	32263	33075	
	5	32375	33187	
6	32487	33299		
	CH#	F	F'	Rec. ITU-R.F.1520-3
	1	31899	32711	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 56 MHz
	2	31955	32767	
	3	32011	32823	
	4	32067	32879	
	5	32123	32935	
	6	32179	32991	
	7	32235	33047	
	8	32291	33103	
	9	32347	33159	
	10	32403	33215	
	11	32459	33271	
12	32515	33327		
	CH#	F	F'	Rec. ITU-R.F.1520-3
	1	31829	32641	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 28 MHz
	2	31857	32669	
	3	31885	32697	
	4	31913	32725	
	5	31941	32753	
	6	31969	32781	
	7	31997	32809	
	8	32025	32837	
	9	32053	32865	
	10	32081	32893	
	11	32109	32921	
	12	32137	32949	
	13	32165	32977	
	14	32193	33005	
	15	32221	33033	
	16	32249	33061	
	17	32277	33089	
	18	32305	33117	
	19	32333	33145	
	20	32361	33173	
	21	32389	33201	
	22	32417	33229	
	23	32445	33257	
	24	32473	33285	
	25	32501	33313	
	26	32529	33341	
27	32557	33369		
	CH#	F	F'	Rec. ITU-R.F.1520-3
	1	31822	32634	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 14 MHz
	2	31836	32648	
	3	31850	32662	
	4	31864	32676	
	5	31878	32690	
6	31892	32704		

	7	31906	32718	
	8	31920	32732	
	9	31934	32746	
	10	31948	32760	
	11	31962	32774	
	12	31976	32788	
	13	31990	32802	
	14	32004	32816	
	15	32018	32830	
	16	32032	32844	
	17	32046	32858	
	18	32060	32872	
	19	32074	32886	
	20	32088	32900	
	21	32102	32914	
	22	32116	32928	
	23	32130	32942	
	24	32144	32956	
	25	32158	32970	
	26	32172	32984	
	27	32186	32998	
	28	32200	33012	
	29	32214	33026	
	30	32228	33040	
	31	32242	33054	
	32	32256	33068	
	33	32270	33082	
	34	32284	33096	
	35	32298	33110	
	36	32312	33124	
	37	32326	33138	
	38	32340	33152	
	39	32354	33166	
	40	32368	33180	
	41	32382	33194	
	42	32396	33208	
	43	32410	33222	
	44	32424	33236	
	45	32438	33250	
	46	32452	33264	
	47	32466	33278	
	48	32480	33292	
	49	32494	33306	
	50	32508	33320	
	51	32522	33334	
	52	32536	33348	
	53	32550	33362	
	54	32564	33376	
	CH#	F	F'	Rec. ITU-R.F.1520-3
	1	31818.5	32630.5	Recommended RF channel arrangements for systems in the fixed service for channel spacing of 7 MHz
	2	31825.5	32637.5	
	3	31832.5	32644.5	
	4	31839.5	32651.5	
	5	31846.5	32658.5	
	6	31853.5	32665.5	
	7	31860.5	32672.5	
	8	31867.5	32679.5	
	9	31874.5	32686.5	
	10	31881.5	32693.5	

11	31888.5	32700.5
12	31895.5	32707.5
13	31902.5	32714.5
14	31909.5	32721.5
15	31916.5	32728.5
16	31923.5	32735.5
17	31930.5	32742.5
18	31937.5	32749.5
19	31944.5	32756.5
20	31951.5	32763.5
21	31958.5	32770.5
22	31965.5	32777.5
23	31972.5	32784.5
24	31979.5	32791.5
25	31986.5	32798.5
26	31993.5	32805.5
27	32000.5	32812.5
28	32007.5	32819.5
29	32014.5	32826.5
30	32021.5	32833.5
31	32028.5	32840.5
32	32035.5	32847.5
33	32042.5	32854.5
34	32049.5	32861.5
35	32056.5	32868.5
36	32063.5	32875.5
37	32070.5	32882.5
38	32077.5	32889.5
39	32084.5	32896.5
40	32091.5	32903.5
41	32098.5	32910.5
42	32105.5	32917.5
43	32112.5	32924.5
44	32119.5	32931.5
45	32126.5	32938.5
46	32133.5	32945.5
47	32140.5	32952.5
48	32147.5	32959.5
49	32154.5	32966.5
50	32161.5	32973.5
51	32168.5	32980.5
52	32175.5	32987.5
53	32182.5	32994.5
54	32189.5	33001.5
55	32196.5	33008.5
56	32203.5	33015.5
57	32210.5	33022.5
58	32217.5	33029.5
59	32224.5	33036.5
60	32231.5	33043.5
61	32238.5	33050.5
62	32245.5	33057.5
63	32252.5	33064.5
64	32259.5	33071.5
65	32266.5	33078.5
66	32273.5	33085.5
67	32280.5	33092.5
68	32287.5	33099.5

69	32294.5	33106.5
70	32301.5	33113.5
71	32308.5	33120.5
72	32315.5	33127.5
73	32322.5	33134.5
74	32329.5	33141.5
75	32336.5	33148.5
76	32343.5	33155.5
77	32350.5	33162.5
78	32357.5	33169.5
79	32364.5	33176.5
80	32371.5	33183.5
81	32378.5	33190.5
82	32385.5	33197.5
83	32392.5	33204.5
84	32399.5	33211.5
85	32406.5	33218.5
86	32413.5	33225.5
87	32420.5	33232.5
88	32427.5	33239.5
89	32434.5	33246.5
90	32441.5	33253.5
91	32448.5	33260.5
92	32455.5	33267.5
93	32462.5	33274.5
94	32469.5	33281.5
95	32476.5	33288.5
96	32483.5	33295.5
97	32490.5	33302.5
98	32497.5	33309.5
99	32504.5	33316.5
100	32511.5	33323.5
101	32518.5	33330.5
102	32525.5	33337.5
103	32532.5	33344.5
104	32539.5	33351.5
105	32546.5	33358.5
106	32553.5	33365.5
107	32560.5	33372.5
108	32567.5	33379.5
CH#	F	F'
1	31816.75	32628.75
2	31820.25	32632.25
3	31823.75	32635.75
4	31827.25	32639.25
5	31830.75	32642.75
6	31834.25	32646.25
7	31837.75	32649.75
8	31841.25	32653.25
9	31844.75	32656.75
10	31848.25	32660.25
11	31851.75	32663.75
12	31855.25	32667.25
13	31858.75	32670.75
14	31862.25	32674.25
15	31865.75	32677.75
16	31869.25	32681.25

Rec. ITU-R.F.1520-3

Recommended RF channel arrangements for systems in the fixed service for channel spacing of 3.5 MHz



17	31872.75	32684.75
18	31876.25	32688.25
19	31879.75	32691.75
20	31883.25	32695.25
21	31886.75	32698.75
22	31890.25	32702.25
23	31893.75	32705.75
24	31897.25	32709.25
25	31900.75	32712.75
26	31904.25	32716.25
27	31907.75	32719.75
28	31911.25	32723.25
29	31914.75	32726.75
30	31918.25	32730.25
31	31921.75	32733.75
32	31925.25	32737.25
33	31928.75	32740.75
34	31932.25	32744.25
35	31935.75	32747.75
36	31939.25	32751.25
37	31942.75	32754.75
38	31946.25	32758.25
39	31949.75	32761.75
40	31953.25	32765.25
41	31956.75	32768.75
42	31960.25	32772.25
43	31963.75	32775.75
44	31967.25	32779.25
45	31970.75	32782.75
46	31974.25	32786.25
47	31977.75	32789.75
48	31981.25	32793.25
49	31984.75	32796.75
50	31988.25	32800.25
51	31991.75	32803.75
52	31995.25	32807.25
53	31998.75	32810.75
54	32002.25	32814.25
55	32005.75	32817.75
56	32009.25	32821.25
57	32012.75	32824.75
58	32016.25	32828.25
59	32019.75	32831.75
60	32023.25	32835.25
61	32026.75	32838.75
62	32030.25	32842.25
63	32033.75	32845.75
64	32037.25	32849.25
65	32040.75	32852.75
66	32044.25	32856.25
67	32047.75	32859.75
68	32051.25	32863.25
69	32054.75	32866.75
70	32058.25	32870.25
71	32061.75	32873.75
72	32065.25	32877.25
73	32068.75	32880.75
74	32072.25	32884.25

75	32075.75	32887.75
76	32079.25	32891.25
77	32082.75	32894.75
78	32086.25	32898.25
79	32089.75	32901.75
80	32093.25	32905.25
81	32096.75	32908.75
82	32100.25	32912.25
83	32103.75	32915.75
84	32107.25	32919.25
85	32110.75	32922.75
86	32114.25	32926.25
87	32117.75	32929.75
88	32121.25	32933.25
89	32124.75	32936.75
90	32128.25	32940.25
91	32131.75	32943.75
92	32135.25	32947.25
93	32138.75	32950.75
94	32142.25	32954.25
95	32145.75	32957.75
96	32149.25	32961.25
97	32152.75	32964.75
98	32156.25	32968.25
99	32159.75	32971.75
100	32163.25	32975.25
101	32166.75	32978.75
102	32170.25	32982.25
103	32173.75	32985.75
104	32177.25	32989.25
105	32180.75	32992.75
106	32184.25	32996.25
107	32187.75	32999.75
108	32191.25	33003.25
109	32194.75	33006.75
110	32198.25	33010.25
111	32201.75	33013.75
112	32205.25	33017.25
113	32208.75	33020.75
114	32212.25	33024.25
115	32215.75	33027.75
116	32219.25	33031.25
117	32222.75	33034.75
118	32226.25	33038.25
119	32229.75	33041.75
120	32233.25	33045.25
121	32236.75	33048.75
122	32240.25	33052.25
123	32243.75	33055.75
124	32247.25	33059.25
125	32250.75	33062.75
126	32254.25	33066.25
127	32257.75	33069.75
128	32261.25	33073.25
129	32264.75	33076.75
130	32268.25	33080.25
131	32271.75	33083.75
132	32275.25	33087.25

133	32278.75	33090.75
134	32282.25	33094.25
135	32285.75	33097.75
136	32289.25	33101.25
137	32292.75	33104.75
138	32296.25	33108.25
139	32299.75	33111.75
140	32303.25	33115.25
141	32306.75	33118.75
142	32310.25	33122.25
143	32313.75	33125.75
144	32317.25	33129.25
145	32320.75	33132.75
146	32324.25	33136.25
147	32327.75	33139.75
148	32331.25	33143.25
149	32334.75	33146.75
150	32338.25	33150.25
151	32341.75	33153.75
152	32345.25	33157.25
153	32348.75	33160.75
154	32352.25	33164.25
155	32355.75	33167.75
156	32359.25	33171.25
157	32362.75	33174.75
158	32366.25	33178.25
159	32369.75	33181.75
160	32373.25	33185.25
161	32376.75	33188.75
162	32380.25	33192.25
163	32383.75	33195.75
164	32387.25	33199.25
165	32390.75	33202.75
166	32394.25	33206.25
167	32397.75	33209.75
168	32401.25	33213.25
169	32404.75	33216.75
170	32408.25	33220.25
171	32411.75	33223.75
172	32415.25	33227.25
173	32418.75	33230.75
174	32422.25	33234.25
175	32425.75	33237.75
176	32429.25	33241.25
177	32432.75	33244.75
178	32436.25	33248.25
179	32439.75	33251.75
180	32443.25	33255.25
181	32446.75	33258.75
182	32450.25	33262.25
183	32453.75	33265.75
184	32457.25	33269.25
185	32460.75	33272.75
186	32464.25	33276.25
187	32467.75	33279.75
188	32471.25	33283.25
189	32474.75	33286.75
190	32478.25	33290.25

191	32481.75	33293.75
192	32485.25	33297.25
193	32488.75	33300.75
194	32492.25	33304.25
195	32495.75	33307.75
196	32499.25	33311.25
197	32502.75	33314.75
198	32506.25	33318.25
199	32509.75	33321.75
200	32513.25	33325.25
201	32516.75	33328.75
202	32520.25	33332.25
203	32523.75	33335.75
204	32527.25	33339.25
205	32530.75	33342.75
206	32534.25	33346.25
207	32537.75	33349.75
208	32541.25	33353.25
209	32544.75	33356.75
210	32548.25	33360.25
211	32551.75	33363.75
212	32555.25	33367.25
213	32558.75	33370.75
214	32562.25	33374.25
215	32565.75	33377.75
216	32569.25	33381.25

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
<b>37000-39500 MHz</b>  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	ITU-R Rec. 749
	1	37061.50	38321.50	Recommended RF channel arrangements for short range digital and analog radio system (4x2 Mbps)
	2	37068.50	38328.50	
	3	37075.50	38335.50	
	4	37082.50	38342.50	
	5	37089.50	38349.50	
	6	37096.50	38356.50	
	7	37103.50	38363.50	
	8	37110.50	38370.50	
	9	37117.50	38377.50	
	10	37124.50	38384.50	
	11	37131.50	38391.50	
	12	37138.50	38398.50	
	13	37145.50	38405.50	
	14	37152.50	38412.50	
	15	37159.50	38419.50	
	16	37166.50	38426.50	
	17	37173.50	38433.50	
	18	37180.50	38440.50	
	19	37187.50	38447.50	
	20	37194.50	38454.50	
	21	37201.50	38461.50	
	22	37208.50	38468.50	
	23	37215.50	38475.50	
	24	37222.50	38482.50	
	25	37229.50	38489.50	
	26	37236.50	38496.50	
	27	37243.50	38503.50	
	28	37250.50	38510.50	
	29	37257.50	38517.50	
	30	37264.50	38524.50	
	31	37271.50	38531.50	
	32	37278.50	38538.50	
	33	37285.50	38545.50	
	34	37292.50	38552.50	
	35	37299.50	38559.50	
	36	37306.50	38566.50	
	37	37313.50	38573.50	
	38	37320.50	38580.50	
	39	37327.50	38587.50	
	40	37334.50	38594.50	
	41	37341.50	38601.50	
	42	37348.50	38608.50	
	43	37355.50	38615.50	
	44	37362.50	38622.50	
	45	37369.50	38629.50	
	46	37376.50	38636.50	
	47	37383.50	38643.50	
	48	37390.50	38650.50	
	49	37397.50	38657.50	
50	37404.50	38664.50	<p style="text-align: center;"><b>NOTE: ASSIGNMENTS BE ON CHANNEL # 1-26 ONLY DUE TO LMDS</b></p>	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
37000-39500 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	
	51	37411.50	38671.50	
	52	37418.50	38678.50	
	53	37425.50	38685.50	
	54	37432.50	38692.50	
	55	37439.50	38699.50	
	56	37446.50	38706.50	
	57	37453.50	38713.50	
	58	37460.50	38720.50	
	59	37467.50	38727.50	
	60	37474.50	38734.50	
	61	37481.50	38741.50	
	62	37488.50	38748.50	
	63	37495.50	38755.50	
	64	37502.50	38762.50	
	65	37509.50	38769.50	
	66	37516.50	38776.50	
	67	37523.50	38783.50	
	68	37530.50	38790.50	
	69	37537.50	38797.50	
	70	37544.50	38804.50	
	71	37551.50	38811.50	
	72	37558.50	38818.50	
	73	37565.50	38825.50	
	74	37572.50	38832.50	
	75	37579.50	38839.50	
	76	37586.50	38846.50	
	77	37593.50	38853.50	
	78	37600.50	38860.50	
	79	37607.50	38867.50	
	80	37614.50	38874.50	
	81	37621.50	38881.50	
	82	37628.50	38888.50	
	83	37635.50	38895.50	
	84	37642.50	38902.50	
	85	37649.50	38909.50	
	86	37656.50	38916.50	
	87	37663.50	38923.50	
	88	37670.50	38930.50	
	89	37677.50	38937.50	
	90	37684.50	38944.50	
	91	37691.50	38951.50	
	92	37698.50	38958.50	
	93	37705.50	38965.50	
	94	37712.50	38972.50	
	95	37719.50	38979.50	
	96	37726.50	38986.50	
	97	37733.50	38993.50	
	98	37740.50	39000.50	
	99	37747.50	39007.50	
	100	37754.50	39014.50	

FREQUENCY BAND	RF CHANNEL ARRANGEMENTS			REMARKS
37000-39500 MHz  POINT-TO-POINT RADIO SYSTEM	CH #	F	F'	
	101	37761.50	39021.50	
	102	37768.50	39028.50	
	103	37775.50	39035.50	
	104	37782.50	39042.50	
	105	37789.50	39049.50	
	106	37796.50	39056.50	
	107	37803.50	39063.50	
	108	37810.50	39070.50	
	109	37817.50	39077.50	
	110	37824.50	39084.50	
	111	37831.50	39091.50	
	112	37838.50	39098.50	
	113	37845.50	39105.50	
	114	37852.50	39112.50	
	115	37859.50	39119.50	
	116	37866.50	39126.50	
	117	37873.50	39133.50	
	118	37880.50	39140.50	
	119	37887.50	39147.50	
	120	37894.50	39154.50	