# CHANNEL PLANS (cont.)

### Upper 6 GHz (6,525 - 6,875 MHz) Channel Plan (See Figure C)

The Upper 6 GHz band is another ideal band for relocation of displaced 2 GHz users. We have subdivided the 10 MHz channels into narrow band channels. We have preserved the existing channel plans at 5 and 10 MHz. For the guard bands we rechannelized from 1.6 MHz channels to 2.5 MHz channels. There is no installed base for these frequencies and believe that this is not an issue for any manufacturer or user. The emergency restoration frequencies at 10 MHz are preserved and are not subdivided. See Appendix A, pages 5-9, for details.

| Bandwidth | Pairs |
|---|---|
| 10.00 MHz | 16 Pairs |
| 5.00 MHz | 31 Pairs |
| 3.75 MHz | 42 Pairs |
| 2.50 MHz | 65 Pairs |
| 1.25 MHz | 130 Pairs |

### 10 GHz (10,550 - 10,680 MHz) Channel Plan (See Figure D)

The 10 GHz band extends the current channel plan to the point-to-multipoint portion of the spectrum. The 10 GHz band will be an ideal band for paths under 17 kilometers. We expect that half of the 2 GHz digital users will relocate to this band. See Appendix A, pages 10-11, for details.

| Bandwidth | Pairs |
|---|---|
| 5.00 MHz | 13 Pairs |
| 3.75 MHz | 17 Pairs |
| 2.50 MHz | 26 Pairs |
| 1.25 MHz | 52 Pairs |

### 11 GHz (10,700 - 11,700 MHz) Channel Plans (See Figure E)

The 11 GHz band preserves the existing center frequencies to accommodate 30 and 40 MHz bandwidth radios. Every frequency plan maintains the same T/R spacing to simplify the designs and usage of spectrum. Two of the 12 pairs of 40 MHz channels are subdivided for narrow band channels. The balance is subdivided for 10, 20 and 30 MHz bandwidth radios. We also recommend that users use the 10 GHz frequencies first for narrow band usage before utilizing the 11 GHz band. See Appendix A, pages 12-16, for details.

| Bandwidth | Pairs |
|---|---|
| 40.00 MHz | 13 Pairs |
| 30.00 MHz | 13 Pairs |
| 20.00 MHz | 24 Pairs |
| 10.00 MHz | 50 Pairs |
| 5.00 MHz | 19 Pairs |
| 3.75 MHz | 24 Pairs |
| 2.50 MHz | 38 Pairs |
| 1.25 MHz | 76 Pairs |

# 4 GHz (3700 - 4200 MHz) CHANNEL PLAN

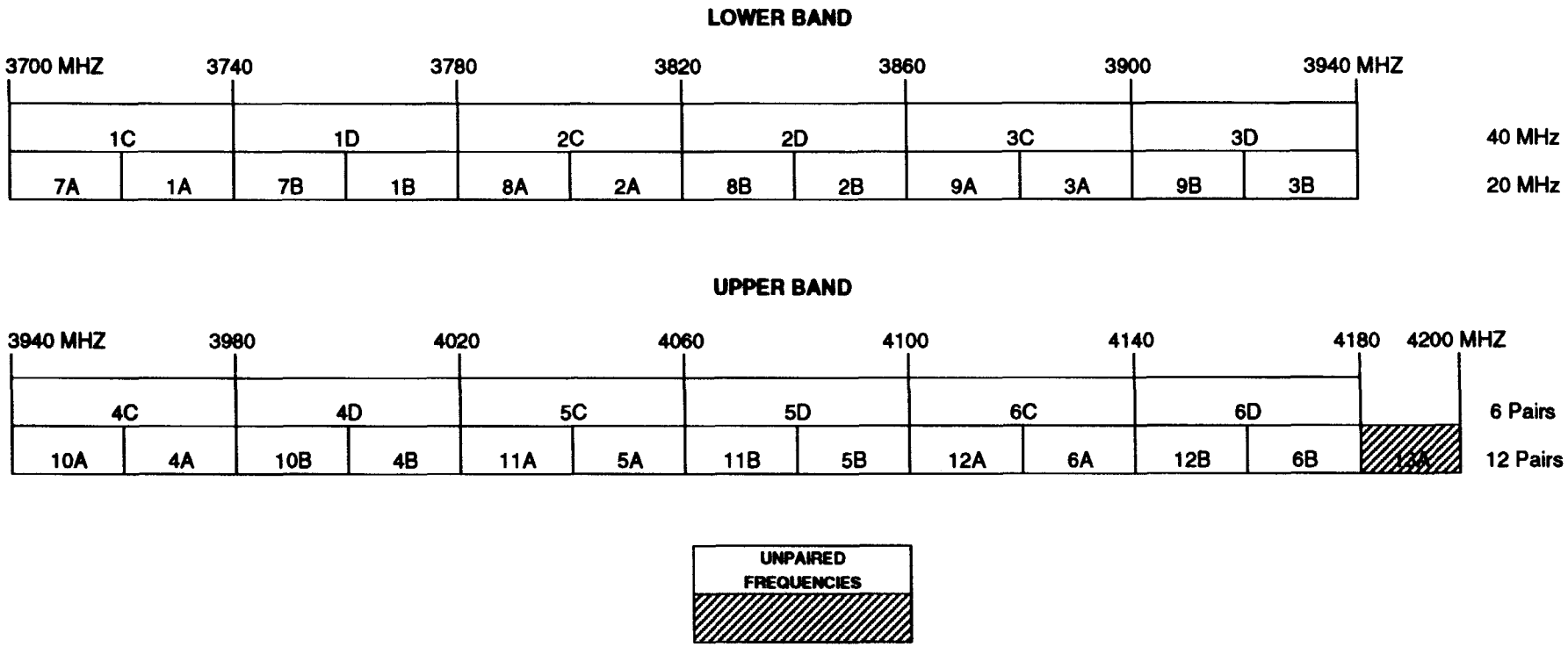
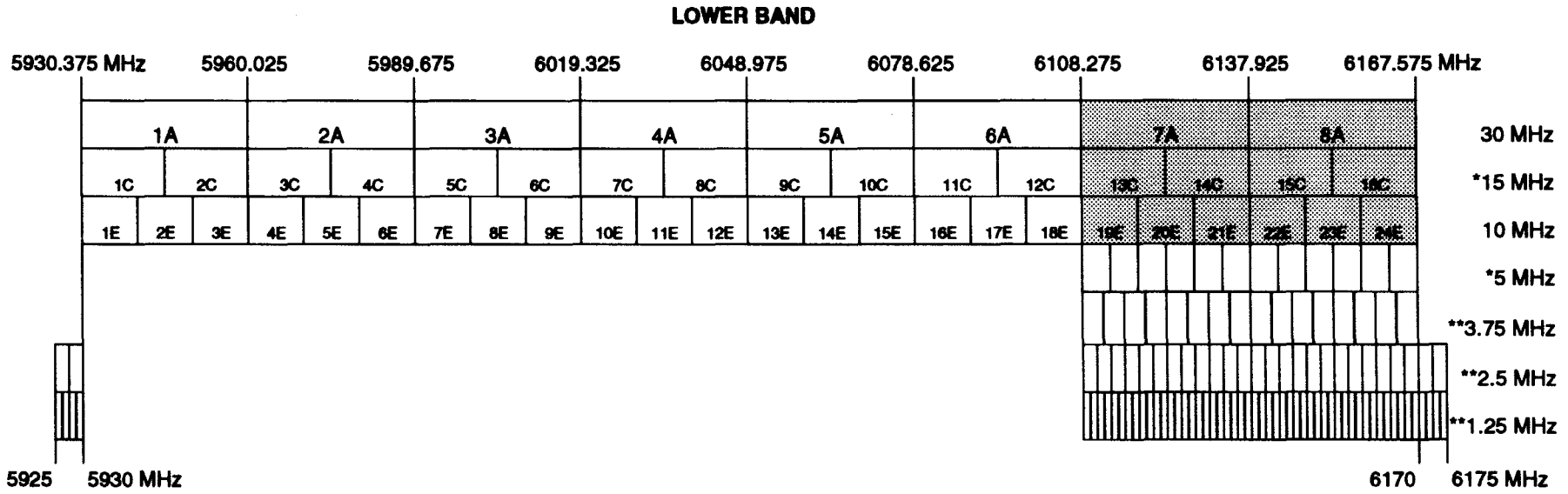
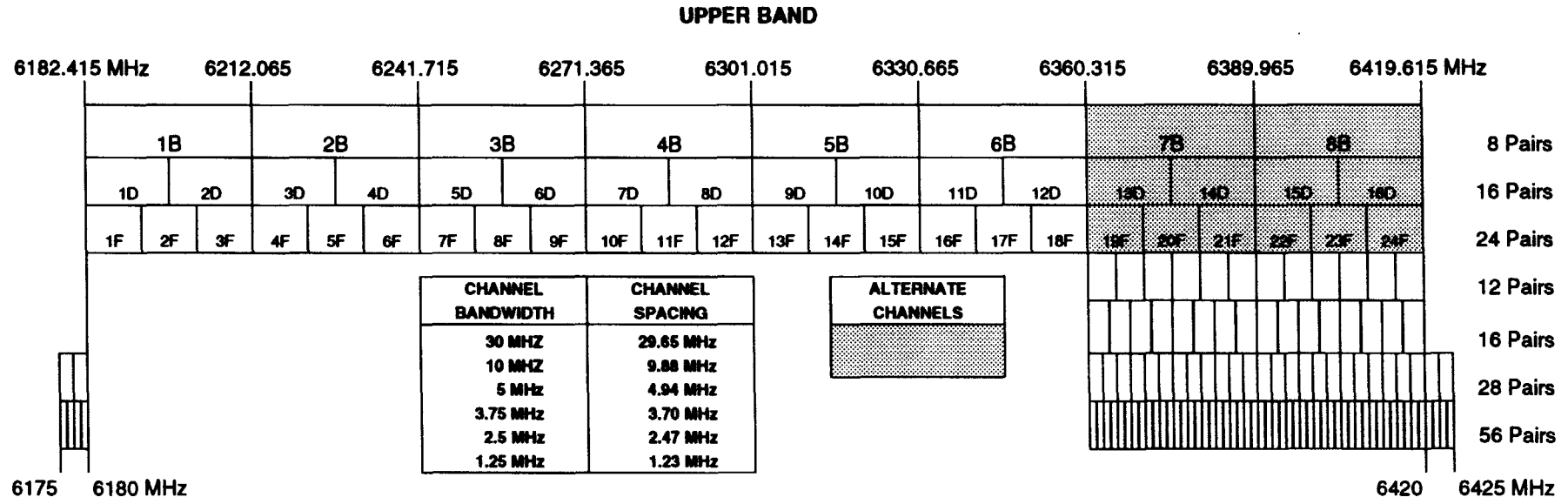





Figure A

# LOWER 6 GHz (5925 - 6425 MHz) CHANNEL PLAN




| CHANNEL BANDWIDTH | CHANNEL SPACING |
|---|---|
| 30 MHZ | 29.65 MHz |
| 10 MHZ | 9.88 MHz |
| 5 MHz | 4.94 MHz |
| 3.75 MHz | 3.70 MHz |
| 2.5 MHz | 2.47 MHz |
| 1.25 MHz | 1.23 MHz |

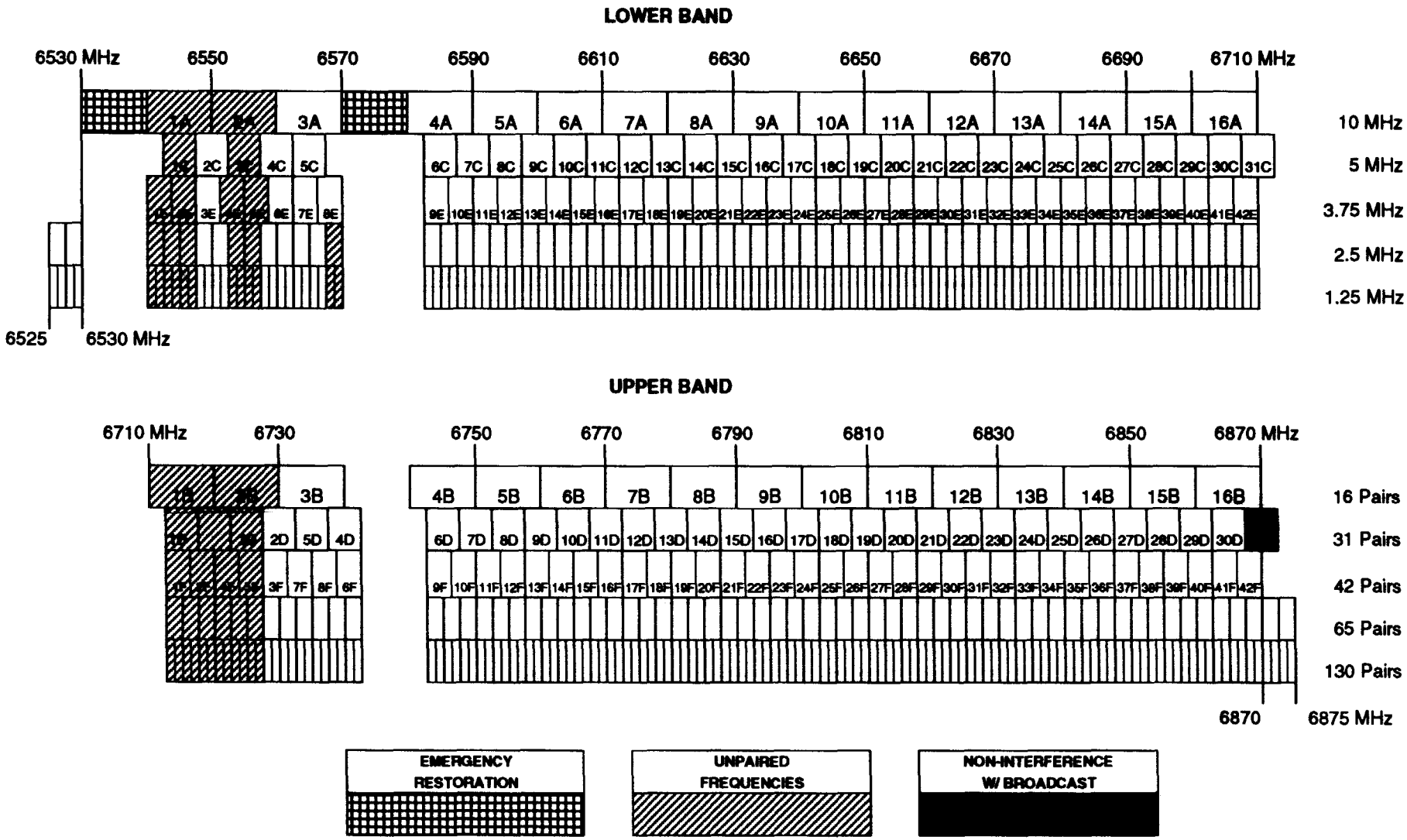
| ALTERNATE CHANNELS |
|---|
| |

* UNTIL 1996
** ONLY TO BE USED IF UPPER 6 GHZ BAND IS BLOCKED

Appendix C

Figure B

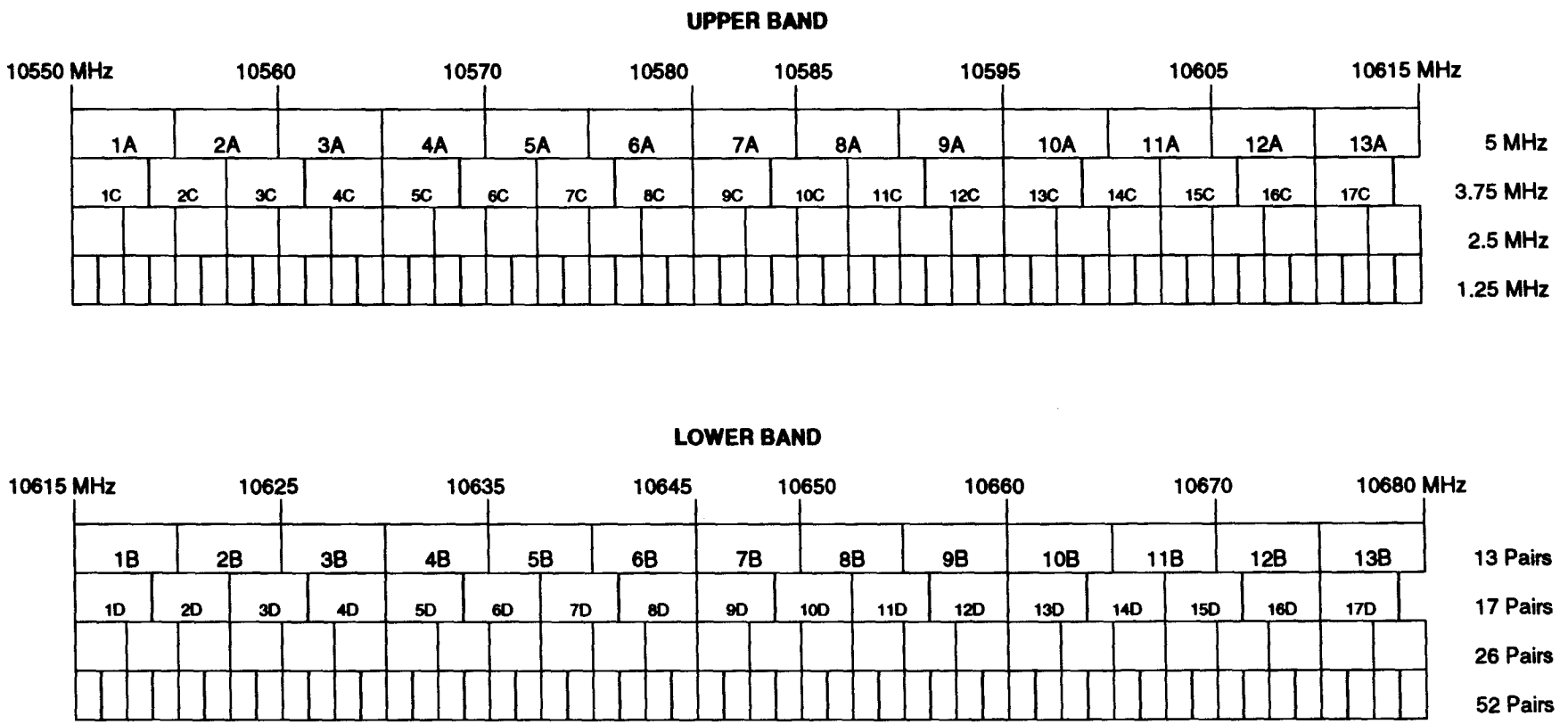
# UPPER 6 GHz (6525 - 6875 MHz) CHANNEL PLAN




Appendix C

Figure C

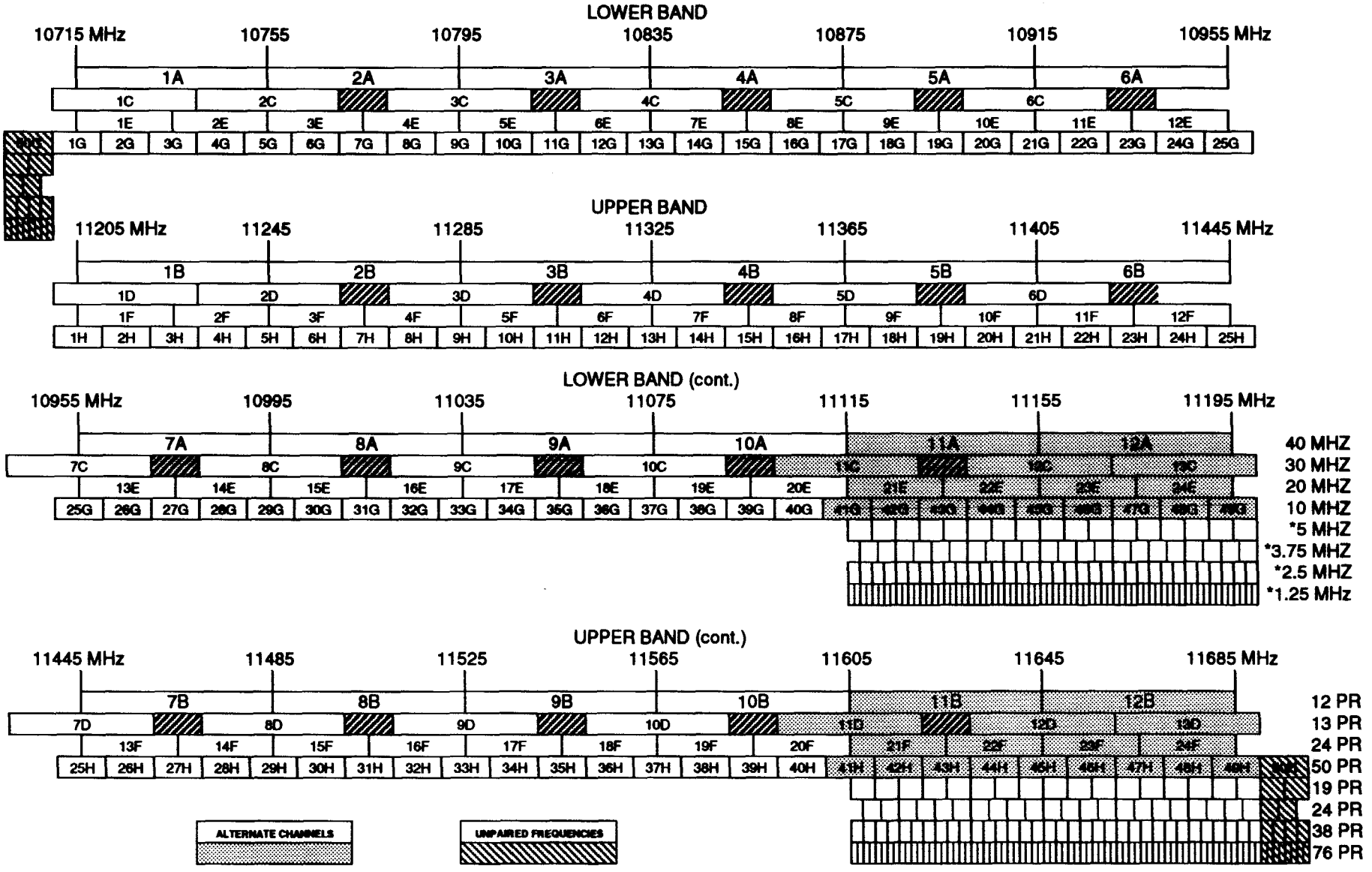
# 10 GHz (10550-10680 MHz) CHANNEL PLAN




Appendix C

Figure D

# 11 GHz (10700 - 11700 MHz) CHANNEL PLAN




* ONLY TO BE USED IF 10 GHz BAND IS BLOCKED



Figure E

## CENTER FREQUENCIES

# 4 GHz (3,700 - 4,200 MHz) CHANNELS

**3,700 - 4,200 MHz, 40 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) |
|---|---|---|
| 3720 | ..... | 3760 |
| 3800 | ..... | 3840 |
| 3880 | ..... | 3920 |
| 3960 | ..... | 4000 |
| 4040 | ..... | 4080 |
| 4120 | ..... | 4160 |

**3,700 - 4,200 MHz, 20 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 3710 | ..... | 3750 | |
| 3730 | ..... | 3770 | |
| 3790 | ..... | 3830 | |
| 3810 | ..... | 3850 | |
| 3870 | ..... | 3910 | |
| 3890 | ..... | 3930 | |
| 3950 | ..... | 3990 | |
| 3970 | ..... | 4010 | |
| 4030 | ..... | 4070 | |
| 4050 | ..... | 4090 | |
| 4110 | ..... | 4150 | |
| 4130 | ..... | 4170 | |
| 4190 | | | 1 |

1 Auxiliary channels available for unpaired use

# LOWER 6 GHz (5,925 - 6,425 MHz) CHANNELS

**5,925 - 6,425 MHz, 30 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 5945.20 | | 6197.24 | |
| 5974.85 | | 6226.89 | |
| 6004.50 | | 6256.54 | |
| 6034.15 | | 6286.19 | |
| 6063.80 | | 6315.84 | |
| 6093.45 | | 6345.49 | |
| 6123.10 | 1 | 6375.14 | 1 |
| 6152.75 | 1 | 6404.79 | 1 |

1 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

**5,925 - 6,425 MHz, 15 MHz bandwidth channels 1**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 5937.79 | | 6189.83 | |
| 5952.61 | | 6204.65 | |
| 5967.44 | | 6219.48 | |
| 5982.26 | | 6234.30 | |
| 5997.09 | | 6249.13 | |
| 6011.91 | | 6263.95 | |
| 6026.74 | | 6278.78 | |
| 6041.56 | | 6293.60 | |
| 6056.39 | | 6308.43 | |
| 6071.21 | | 6323.25 | |
| 6086.04 | | 6338.08 | |
| 6100.86 | | 6352.90 | |
| 6115.69 | 2 | 6367.73 | 2 |
| 6130.51 | 2 | 6382.55 | 2 |
| 6145.34 | 2 | 6397.38 | 2 |
| 6160.16 | 2 | 6412.20 | 2 |

1 This channel plan to be discontinued after June 30, 1998.

2 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

**5,925 - 6,425 MHz, 10 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 5935.32 | | 6187.36 | |
| 5945.20 | | 6197.24 | |
| 5955.08 | | 6207.12 | |
| 5964.97 | | 6217.01 | |
| 5974.85 | | 6226.89 | |
| 5984.73 | | 6236.77 | |
| 5994.62 | | 6246.66 | |
| 6004.50 | | 6256.54 | |
| 6014.38 | | 6266.42 | |
| 6024.27 | | 6276.31 | |
| 6034.15 | | 6286.19 | |
| 6044.03 | | 6296.07 | |
| 6053.92 | | 6305.96 | |
| 6063.80 | | 6315.84 | |
| 6073.68 | | 6325.72 | |
| 6083.57 | | 6335.61 | |
| 6093.45 | | 6345.49 | |
| 6103.33 | | 6355.37 | |
| 6113.22 | 1 | 6365.26 | 1 |
| 6123.10 | 1 | 6375.14 | 1 |
| 6132.98 | 1 | 6385.02 | 1 |
| 6142.87 | 1 | 6394.91 | 1 |
| 6152.75 | 1 | 6404.79 | 1 |
| 6162.63 | 1 | 6414.67 | 1 |

1 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

## CENTER FREQUENCIES

# LOWER 6 GHz (5,925 - 6,425 MHz) CHANNELS

**5,925 - 6,425 MHz, 5 MHz bandwidth channels 1**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) |
|---|---|---|
| 6110.75 | ..... | 6362.79 |
| 6115.69 | ..... | 6367.73 |
| 6120.63 | ..... | 6372.67 |
| 6125.57 | ..... | 6377.61 |
| 6130.51 | ..... | 6382.55 |
| 6135.45 | ..... | 6387.49 |
| 6140.4 | ..... | 6392.44 |
| 6145.34 | ..... | 6397.38 |
| 6150.28 | ..... | 6402.32 |
| 6155.22 | ..... | 6407.26 |
| 6160.16 | ..... | 6412.2 |
| 6165.1 | ..... | 6417.14 |

1 Alternate channels. These channels should be used only if all other channels at 6,525 - 6,875 MHz are blocked.

**5,925 - 6,425 MHz, 3.75 MHz bandwidth channels 1**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) |
|---|---|---|
| 6110.14 | ..... | 6362.18 |
| 6113.84 | ..... | 6365.88 |
| 6117.54 | ..... | 6369.58 |
| 6121.24 | ..... | 6373.28 |
| 6124.96 | ..... | 6377.00 |
| 6128.66 | ..... | 6380.70 |
| 6132.36 | ..... | 6384.40 |
| 6136.06 | ..... | 6388.10 |
| 6139.79 | ..... | 6391.83 |
| 6143.49 | ..... | 6395.53 |
| 6147.19 | ..... | 6399.23 |
| 6150.89 | ..... | 6402.93 |
| 6154.61 | ..... | 6406.65 |
| 6158.31 | ..... | 6410.35 |
| 6162.01 | ..... | 6414.05 |
| 6165.71 | ..... | 6417.75 |

1 Alternate channels. These channels should be used only if all other channels at 6,525 - 6,875 MHz are blocked.

**5,925 - 6,425 MHz, 2.5 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 5926.25 | 2..... | 6176.25 | |
| 5928.75 | 2..... | 6178.75 | |
| 6109.52 | 1..... | 6361.56 | 1 |
| 6111.98 | 1..... | 6364.02 | 1 |
| 6114.46 | 1..... | 6366.50 | 1 |
| 6116.92 | 1..... | 6368.96 | 1 |
| 6119.40 | 1..... | 6371.44 | 1 |
| 6121.86 | 1..... | 6373.90 | 1 |
| 6124.34 | 1..... | 6376.38 | 1 |
| 6126.80 | 1..... | 6378.84 | 1 |
| 6129.28 | 1..... | 6381.32 | 1 |
| 6131.74 | 1..... | 6383.78 | 1 |
| 6134.22 | 1..... | 6386.26 | 1 |
| 6136.68 | 1..... | 6388.72 | 1 |
| 6139.17 | 1..... | 6391.21 | 1 |
| 6141.63 | 1..... | 6393.67 | 1 |
| 6144.11 | 1..... | 6396.15 | 1 |
| 6146.57 | 1..... | 6398.61 | 1 |
| 6149.05 | 1..... | 6401.09 | 1 |
| 6151.51 | 1..... | 6403.55 | 1 |
| 6153.99 | 1..... | 6406.03 | 1 |
| 6156.45 | 1..... | 6408.49 | 1 |
| 6158.93 | 1..... | 6410.97 | 1 |
| 6161.39 | 1..... | 6413.43 | 1 |
| 6163.87 | 1..... | 6415.91 | 1 |
| 6166.33 | 1..... | 6418.37 | 1 |
| 6171.25 | 2..... | 6421.25 | 2 |
| 6173.75 | 2..... | 6423.75 | 2 |

1 Alternate channels. These channels should be used only if all other channels at 6,525 - 6,875 MHz are blocked.

# LOWER 6 GHz (5,925 - 6,425 MHz) CHANNELS

**5,925 - 6,425 MHz, 1.25 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 5925.63 | ..... | 6175.63 | |
| 5926.87 | ..... | 6176.87 | |
| 5928.13 | ..... | 6178.13 | |
| 5929.37 | ..... | 6179.37 | |
| 6108.91 | 1..... | 6360.95 | 1 |
| 6110.13 | 1..... | 6362.17 | 1 |
| 6111.37 | 1..... | 6363.41 | 1 |
| 6112.59 | 1..... | 6364.63 | 1 |
| 6113.85 | 1..... | 6365.89 | 1 |
| 6115.07 | 1..... | 6367.11 | 1 |
| 6116.31 | 1..... | 6368.35 | 1 |
| 6117.53 | 1..... | 6369.57 | 1 |
| 6118.79 | 1..... | 6370.83 | 1 |
| 6120.01 | 1..... | 6372.05 | 1 |
| 6121.25 | 1..... | 6373.29 | 1 |
| 6122.47 | 1..... | 6374.51 | 1 |
| 6123.73 | 1..... | 6375.77 | 1 |
| 6124.95 | 1..... | 6376.99 | 1 |
| 6126.19 | 1..... | 6378.23 | 1 |
| 6127.41 | 1..... | 6379.45 | 1 |
| 6128.67 | 1..... | 6380.71 | 1 |
| 6129.89 | 1..... | 6381.93 | 1 |
| 6131.13 | 1..... | 6383.17 | 1 |
| 6132.35 | 1..... | 6384.39 | 1 |
| 6133.61 | 1..... | 6385.65 | 1 |
| 6134.83 | 1..... | 6386.87 | 1 |
| 6136.07 | 1..... | 6388.11 | 1 |
| 6137.29 | 1..... | 6389.33 | 1 |

**5,925 - 6,425 MHz, 1.25 MHz bandwidth channels (cont.)**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 6138.56 | 1..... | 6390.60 | 1 |
| 6139.78 | 1..... | 6391.82 | 1 |
| 6141.02 | 1..... | 6393.06 | 1 |
| 6142.24 | 1..... | 6394.28 | 1 |
| 6143.50 | 1..... | 6395.54 | 1 |
| 6144.72 | 1..... | 6396.76 | 1 |
| 6145.96 | 1..... | 6398.00 | 1 |
| 6147.18 | 1..... | 6399.22 | 1 |
| 6148.44 | 1..... | 6400.48 | 1 |
| 6149.66 | 1..... | 6401.70 | 1 |
| 6150.90 | 1..... | 6402.94 | 1 |
| 6152.12 | 1..... | 6404.16 | 1 |
| 6153.38 | 1..... | 6405.42 | 1 |
| 6154.60 | 1..... | 6406.64 | 1 |
| 6155.84 | 1..... | 6407.88 | 1 |
| 6157.06 | 1..... | 6409.10 | 1 |
| 6158.32 | 1..... | 6410.36 | 1 |
| 6159.54 | 1..... | 6411.58 | 1 |
| 6160.78 | 1..... | 6412.82 | 1 |
| 6162.00 | 1..... | 6414.04 | 1 |
| 6163.26 | 1..... | 6415.30 | 1 |
| 6164.48 | 1..... | 6416.52 | 1 |
| 6165.72 | 1..... | 6417.76 | 1 |
| 6166.94 | 1..... | 6418.98 | 1 |
| 6170.63 | ..... | 6420.63 | |
| 6171.87 | ..... | 6421.87 | |
| 6173.13 | ..... | 6423.13 | |
| 6174.37 | ..... | 6424.37 | |

1 Alternate channels. These channels should be used only if all other channels at 6,525 - 6,875 MHz are blocked.

# UPPER 6 GHz (6,525 - 6,875 MHz) CHANNELS

**6,525 - 6,875 MHz, 10.0 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 6545 | 1. . . . . | 6715 | 1 |
| 6555 | 1. . . . . | 6725 | 1 |
| 6565 | . . . . . | 6735 | |
| 6585 | . . . . . | 6745 | |
| 6595 | . . . . . | 6755 | |
| 6605 | . . . . . | 6765 | |
| 6615 | . . . . . | 6775 | |
| 6625 | . . . . . | 6785 | |
| 6635 | . . . . . | 6795 | |
| 6645 | . . . . . | 6805 | |
| 6655 | . . . . . | 6815 | |
| 6665 | . . . . . | 6825 | |
| 6675 | . . . . . | 6835 | |
| 6685 | . . . . . | 6845 | |
| 6695 | . . . . . | 6855 | |
| 6705 | . . . . . | 6865 | |
| 6535 | 2. . . . . | 6575 | 2 |

1 These frequencies may be assigned for unpaired use.

2 Available for emergency restoration, maintenance bypass, or other temporary-fixed purposes. Such use on a non-interfernce basis to other frequncies in this band. Interfernce analysis required by Section 94.63(a) does not apply to this ›ncy pair.

**6,525 - 6,875 MHz, 5.0 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 6545 | 1. . . . . | 6715 | 1 |
| 6550 | . . . . . | 6730 | |
| 6555 | 1. . . . . | 6725 | 1 |
| 6560 | . . . . . | 6740 | |
| 6565 | . . . . . | 6735 | |
| 6585 | . . . . . | 6745 | |
| 6590 | . . . . . | 6750 | |
| 6595 | . . . . . | 6755 | |
| 6600 | . . . . . | 6760 | |
| 6605 | . . . . . | 6765 | |
| 6610 | . . . . . | 6770 | |
| 6615 | . . . . . | 6775 | |
| 6620 | . . . . . | 6780 | |
| 6625 | . . . . . | 6785 | |
| 6630 | . . . . . | 6790 | |
| 6635 | . . . . . | 6795 | |
| 6640 | . . . . . | 6800 | |
| 6645 | . . . . . | 6805 | |
| 6650 | . . . . . | 6810 | |
| 6655 | . . . . . | 6815 | |
| 6660 | . . . . . | 6820 | |
| 6665 | . . . . . | 6825 | |
| 6670 | . . . . . | 6830 | |
| 6675 | . . . . . | 6835 | |
| 6680 | . . . . . | 6840 | |
| 6685 | . . . . . | 6845 | |
| 6690 | . . . . . | 6850 | |
| 6695 | . . . . . | 6855 | |
| 6700 | . . . . . | 6860 | |
| 6705 | . . . . . | 6865 | |
| 6710 | . . . . . | 6870 | 2 |

1 These frequencies may be assigned for unpaired use.

2 Use of this frequency is authorized on a non-interference basis to broadcast operations in the band 6875-7125 MHz.

# UPPER 6 GHz (6,525 - 6,875 MHz) CHANNELS

**6,525 - 6,875 MHz, 3.75 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 6541.875 | 1 | 6714.375 | 1 |
| 6545.625 | 1 | 6718.125 | 1 |
| 6549.375 | | 6725.625 | |
| 6553.125 | 1 | 6729.375 | 1 |
| 6556.875 | 1 | 6721.875 | 1 |
| 6560.625 | | 6736.875 | |
| 6564.375 | | 6740.625 | |
| 6568.125 | | 6733.125 | |
| 6584.375 | | 6744.375 | |
| 6588.125 | | 6748.125 | |
| 6591.875 | | 6751.875 | |
| 6595.625 | | 6755.625 | |
| 6599.375 | | 6759.375 | |
| 6603.125 | | 6763.125 | |
| 6606.875 | | 6766.875 | |
| 6610.625 | | 6770.625 | |
| 6614.375 | | 6774.375 | |
| 6618.125 | | 6778.125 | |
| 6621.875 | | 6781.875 | |
| 6625.625 | | 6785.625 | |
| 6629.375 | | 6789.375 | |

**6,525 - 6,875 MHz, 3.75 MHz bandwidth channels (cont.)**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 6633.125 | 6793.125 |
| 6636.875 | 6796.875 |
| 6640.625 | 6800.625 |
| 6644.375 | 6804.375 |
| 6648.125 | 6808.125 |
| 6651.875 | 6811.875 |
| 6655.625 | 6815.625 |
| 6659.375 | 6819.375 |
| 6663.125 | 6823.125 |
| 6666.875 | 6826.875 |
| 6670.625 | 6830.625 |
| 6674.375 | 6834.375 |
| 6678.125 | 6838.125 |
| 6681.875 | 6841.875 |
| 6685.625 | 6845.625 |
| 6689.375 | 6849.375 |
| 6693.125 | 6853.125 |
| 6696.875 | 6856.875 |
| 6700.625 | 6860.625 |
| 6704.375 | 6864.375 |
| 6708.125 | 6868.125 |

1 These frequencies may be assigned for unpaired use.

# UPPER 6 GHz (6,525 - 6,875 MHz) CHANNELS

**6,525 - 6,875 MHz, 2.5 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 6526.25 | ..... | 6871.25 | |
| 6528.75 | ..... | 6873.75 | |
| 6541.25 | 1..... | 6716.25 | 1 |
| 6543.75 | 1..... | 6718.75 | 1 |
| 6546.25 | 1..... | 6713.75 | 1 |
| 6548.75 | ..... | 6741.25 | |
| 6551.25 | ..... | 6726.25 | |
| 6553.75 | 1..... | 6728.75 | 1 |
| 6556.25 | 1..... | 6721.25 | 1 |
| 6558.75 | ..... | 6723.75 | |
| 6561.25 | ..... | 6736.25 | |
| 6563.75 | ..... | 6738.75 | |
| 6566.25 | ..... | 6731.25 | |
| 6568.75 | 1..... | 6733.75 | 1 |
| 6583.75 | ..... | 6743.75 | |
| 6586.25 | ..... | 6746.25 | |
| 6588.75 | ..... | 6748.75 | |
| 6591.25 | ..... | 6751.25 | |
| 6593.75 | ..... | 6753.75 | |
| 6596.25 | ..... | 6756.25 | |
| 6598.75 | ..... | 6758.75 | |
| 6601.25 | ..... | 6761.25 | |
| 6603.75 | ..... | 6763.75 | |
| 6606.25 | ..... | 6766.25 | |
| 6608.75 | ..... | 6768.75 | |
| 6611.25 | ..... | 6771.25 | |
| 6613.75 | ..... | 6773.75 | |
| 6616.25 | ..... | 6776.25 | |
| 6618.75 | ..... | 6778.75 | |
| 6621.25 | ..... | 6781.25 | |
| 6623.75 | ..... | 6783.75 | |
| 6626.25 | ..... | 6786.25 | |
| 6628.75 | ..... | 6788.75 | |

**6,525 - 6,875 MHz, 2.5 MHz bandwidth channels (cont.)**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) |
|---|---|---|
| 6631.25 | ..... | 6791.25 |
| 6633.75 | ..... | 6793.75 |
| 6636.25 | ..... | 6796.25 |
| 6638.75 | ..... | 6798.75 |
| 6641.25 | ..... | 6801.25 |
| 6643.75 | ..... | 6803.75 |
| 6646.25 | ..... | 6806.25 |
| 6648.75 | ..... | 6808.75 |
| 6651.25 | ..... | 6811.25 |
| 6653.75 | ..... | 6813.75 |
| 6656.25 | ..... | 6816.25 |
| 6658.75 | ..... | 6818.75 |
| 6661.25 | ..... | 6821.25 |
| 6663.75 | ..... | 6823.75 |
| 6666.25 | ..... | 6826.25 |
| 6668.75 | ..... | 6828.75 |
| 6671.25 | ..... | 6831.25 |
| 6673.75 | ..... | 6833.75 |
| 6676.25 | ..... | 6836.25 |
| 6678.75 | ..... | 6838.75 |
| 6681.25 | ..... | 6841.25 |
| 6683.75 | ..... | 6843.75 |
| 6686.25 | ..... | 6846.25 |
| 6688.75 | ..... | 6848.75 |
| 6691.25 | ..... | 6851.25 |
| 6693.75 | ..... | 6853.75 |
| 6696.25 | ..... | 6856.25 |
| 6698.75 | ..... | 6858.75 |
| 6701.25 | ..... | 6861.25 |
| 6703.75 | ..... | 6863.75 |
| 6706.25 | ..... | 6866.25 |
| 6708.75 | ..... | 6868.75 |

1 These frequencies may be assigned for unpaired use.

## CENTER FREQUENCIES

# UPPER 6 GHz (6,525 - 6,875 MHz) CHANNELS

| 6,525 - 6,875 MHz, 1.25 MHz bandwidth channels | | 6,525 - 6,875 MHz, 1.25 MHz bandwidth channels (cont.) | |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] |

# UPPER 6 GHz (6,525 - 6,875 MHz) CHANNELS

**6,525 - 6,875 MHz, 1.25 MHz bandwidth channels (cont.)**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 6660.625 | 6820.625 |
| 6661.875 | 6821.875 |
| 6663.125 | 6823.125 |
| 6664.375 | 6824.375 |
| 6665.625 | 6825.625 |
| 6666.875 | 6826.875 |
| 6668.125 | 6828.125 |
| 6669.375 | 6829.375 |
| 6670.625 | 6830.625 |
| 6671.875 | 6831.875 |
| 6673.125 | 6833.125 |
| 6674.375 | 6834.375 |
| 6675.625 | 6835.625 |
| 6676.875 | 6836.875 |
| 6678.125 | 6838.125 |
| 6679.375 | 6839.375 |
| 6680.625 | 6840.625 |
| 6681.875 | 6841.875 |
| 6683.125 | 6843.125 |
| 6684.375 | 6844.375 |

**6,525 - 6,875 MHz, 1.25 MHz bandwidth channels (cont.)**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 6685.625 | 6845.625 |
| 6686.875 | 6846.875 |
| 6688.125 | 6848.125 |
| 6689.375 | 6849.375 |
| 6690.625 | 6850.625 |
| 6691.875 | 6851.875 |
| 6693.125 | 6853.125 |
| 6694.375 | 6854.375 |
| 6695.625 | 6855.625 |
| 6696.875 | 6856.875 |
| 6698.125 | 6858.125 |
| 6699.375 | 6859.375 |
| 6700.625 | 6860.625 |
| 6701.875 | 6861.875 |
| 6703.125 | 6863.125 |
| 6704.375 | 6864.375 |
| 6705.625 | 6865.625 |
| 6706.875 | 6866.875 |
| 6708.125 | 6868.125 |
| 6709.375 | 6869.375 |

1 These frequencies may be assigned for unpaired use.

# CENTER FREQUENCIES

# 10 GHz (10,550 - 10,680 MHz) CHANNELS

**10,550 - 10,680 MHz, 5.0 MHz bandwidth channels**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 10552.5 | 10617.5 |
| 10557.5 | 10622.5 |
| 10562.5 | 10627.5 |
| 10567.5 | 10632.5 |
| 10572.5 | 10637.5 |
| 10577.5 | 10642.5 |
| 10582.5 | 10647.5 |
| 10587.5 | 10652.5 |
| 10592.5 | 10657.5 |
| 10597.5 | 10662.5 |
| 10602.5 | 10667.5 |
| 10607.5 | 10672.5 |
| 10612.5 | 10677.5 |

**10,550 - 10,680 MHz, 3.75 MHz bandwidth channels**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 10551.875 | 10616.875 |
| 10555.625 | 10620.625 |
| 10559.375 | 10624.375 |
| 10563.125 | 10628.125 |
| 10566.875 | 10631.875 |
| 10570.625 | 10635.625 |
| 10574.375 | 10639.375 |
| 10578.125 | 10643.125 |
| 10581.875 | 10646.875 |
| 10585.625 | 10650.625 |
| 10589.375 | 10654.375 |
| 10593.125 | 10658.125 |
| 10596.875 | 10661.875 |
| 10600.625 | 10665.625 |
| 10604.375 | 10669.375 |
| 10608.125 | 10673.125 |
| 10611.875 | 10676.875 |

**10,550 - 10,680 MHz, 2.5 MHz bandwidth channels**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 10551.25 | 10616.25 |
| 10553.75 | 10618.75 |
| 10556.25 | 10621.25 |
| 10558.75 | 10623.75 |
| 10561.25 | 10626.25 |
| 10563.75 | 10628.75 |
| 10566.25 | 10631.25 |
| 10568.75 | 10633.75 |
| 10571.25 | 10636.25 |
| 10573.75 | 10638.75 |
| 10576.25 | 10641.25 |
| 10578.75 | 10643.75 |
| 10581.25 | 10646.25 |
| 10583.75 | 10648.75 |
| 10586.25 | 10651.25 |
| 10588.75 | 10653.75 |
| 10591.25 | 10656.25 |
| 10593.75 | 10658.75 |
| 10596.25 | 10661.25 |
| 10598.75 | 10663.75 |
| 10601.25 | 10666.25 |
| 10603.75 | 10668.75 |
| 10606.25 | 10671.25 |
| 10608.75 | 10673.75 |
| 10611.25 | 10676.25 |
| 10613.75 | 10678.75 |

# 10 GHz (10,550 - 10,680 MHz) CHANNELS

**10,550-10,680 MHz, 1.25 MHz bandwidth channels**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 10550.625 | 10615.625 |
| 10551.875 | 10616.875 |
| 10553.125 | 10618.125 |
| 10554.375 | 10619.375 |
| 10555.625 | 10620.625 |
| 10556.875 | 10621.875 |
| 10558.125 | 10623.125 |
| 10559.375 | 10624.375 |
| 10560.625 | 10625.625 |
| 10561.875 | 10626.875 |
| 10563.125 | 10628.125 |
| 10564.375 | 10629.375 |
| 10565.625 | 10630.625 |
| 10566.875 | 10631.875 |
| 10568.125 | 10633.125 |
| 10569.375 | 10634.375 |
| 10570.625 | 10635.625 |
| 10571.875 | 10636.875 |
| 10573.125 | 10638.125 |
| 10574.375 | 10639.375 |
| 10575.625 | 10640.625 |
| 10576.875 | 10641.875 |
| 10578.125 | 10643.125 |
| 10579.375 | 10644.375 |
| 10580.625 | 10645.625 |
| 10581.875 | 10646.875 |

**10,550-10,680 MHz, 1.25 MHz bandwidth channels (cont.)**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 10583.125 | 10648.125 |
| 10584.375 | 10649.375 |
| 10585.625 | 10650.625 |
| 10586.875 | 10651.875 |
| 10588.125 | 10653.125 |
| 10589.375 | 10654.375 |
| 10590.625 | 10655.625 |
| 10591.875 | 10656.875 |
| 10593.125 | 10658.125 |
| 10594.375 | 10659.375 |
| 10595.625 | 10660.625 |
| 10596.875 | 10661.875 |
| 10598.125 | 10663.125 |
| 10599.375 | 10664.375 |
| 10600.625 | 10665.625 |
| 10601.875 | 10666.875 |
| 10603.125 | 10668.125 |
| 10604.375 | 10669.375 |
| 10605.625 | 10670.625 |
| 10606.875 | 10671.875 |
| 10608.125 | 10673.125 |
| 10609.375 | 10674.375 |
| 10610.625 | 10675.625 |
| 10611.875 | 10676.875 |
| 10613.125 | 10678.125 |
| 10614.375 | 10679.375 |

# 11 GHz (10,700 - 11,700 MHz) CHANNELS

**10,700 - 11,700 MHz, 40 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10735 | ..... | 11225 | |
| 10775 | ..... | 11265 | |
| 10815 | ..... | 11305 | |
| 10855 | ..... | 11345 | |
| 10895 | ..... | 11385 | |
| 10935 | ..... | 11425 | |
| 10975 | ..... | 11465 | |
| 11015 | ..... | 11505 | |
| 11055 | ..... | 11545 | |
| 11095 | ..... | 11585 | |
| 11135 | 1..... | 11625 | 1 |
| 11175 | 1..... | 11665 | 1 |

1 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

**10,700 - 11,700 MHz, 30 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10725 | ..... | 11215 | |
| 10755 | ..... | 11245 | |
| 10795 | ..... | 11285 | |
| 10835 | ..... | 11325 | |
| 10875 | ..... | 11365 | |
| 10915 | ..... | 11405 | |
| 10955 | ..... | 11445 | |
| 10995 | ..... | 11485 | |
| 11035 | ..... | 11525 | |
| 11075 | ..... | 11565 | |
| 11115 | 1..... | 11605 | 1 |
| 11155 | 1..... | 11645 | 1 |
| 11185 | 1..... | 11675 | 1 |

1 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

**10,700 - 11,700 MHz, 20 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10725 | ..... | 11215 | |
| 10745 | ..... | 11235 | |
| 10765 | ..... | 11255 | |
| 10785 | ..... | 11275 | |
| 10805 | ..... | 11295 | |
| 10825 | ..... | 11315 | |
| 10845 | ..... | 11335 | |
| 10865 | ..... | 11355 | |
| 10885 | ..... | 11375 | |
| 10905 | ..... | 11395 | |
| 10925 | ..... | 11415 | |
| 10945 | ..... | 11435 | |
| 10965 | ..... | 11455 | |
| 10985 | ..... | 11475 | |
| 11005 | ..... | 11495 | |
| 11025 | ..... | 11515 | |
| 11045 | ..... | 11535 | |
| 11065 | ..... | 11555 | |
| 11085 | ..... | 11575 | |
| 11105 | ..... | 11595 | |
| 11125 | 1..... | 11615 | 1 |
| 11145 | 1..... | 11635 | 1 |
| 11165 | 1..... | 11655 | 1 |
| 11185 | 1..... | 11675 | 1 |

1 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

## CENTER FREQUENCIES

# 11 GHz (10,700 - 11,700 MHz) CHANNELS

**10,700 - 11,700 MHz, 10 MHz bandwidth channels**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10705 | 1..... | 11695 | 1 |
| 10715 | ..... | 11205 | |
| 10725 | ..... | 11215 | |
| 10735 | ..... | 11225 | |
| 10745 | ..... | 11235 | |
| 10755 | ..... | 11245 | |
| 10765 | ..... | 11255 | |
| 10775 | ..... | 11265 | |
| 10785 | ..... | 11275 | |
| 10795 | ..... | 11285 | |
| 10805 | ..... | 11295 | |
| 10815 | ..... | 11305 | |
| 10825 | ..... | 11315 | |
| 10835 | ..... | 11325 | |
| 10845 | ..... | 11335 | |
| 10855 | ..... | 11345 | |
| 10865 | ..... | 11355 | |
| 10875 | ..... | 11365 | |
| 10885 | ..... | 11375 | |
| 10895 | ..... | 11385 | |
| 10905 | ..... | 11395 | |
| 10915 | ..... | 11405 | |
| 10925 | ..... | 11415 | |
| 10935 | ..... | 11425 | |
| 10945 | ..... | 11435 | |

**10,700 - 11,700 MHz, 10 MHz bandwidth channels (cont.)**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10955 | ..... | 11445 | |
| 10965 | ..... | 11455 | |
| 10975 | ..... | 11465 | |
| 10985 | ..... | 11475 | |
| 10995 | ..... | 11485 | |
| 11005 | ..... | 11495 | |
| 11015 | ..... | 11505 | |
| 11025 | ..... | 11515 | |
| 11035 | ..... | 11525 | |
| 11045 | ..... | 11535 | |
| 11055 | ..... | 11545 | |
| 11065 | ..... | 11555 | |
| 11075 | ..... | 11565 | |
| 11085 | ..... | 11575 | |
| 11095 | ..... | 11585 | |
| 11105 | ..... | 11595 | |
| 11115 | 2..... | 11605 | 2 |
| 11125 | 2..... | 11615 | 2 |
| 11135 | 2..... | 11625 | 2 |
| 11145 | 2..... | 11635 | 2 |
| 11155 | 2..... | 11645 | 2 |
| 11165 | 2..... | 11655 | 2 |
| 11175 | 2..... | 11665 | 2 |
| 11185 | 2..... | 11675 | 2 |
| 11195 | 2..... | 11685 | 2 |

1 These frequencies may be assigned for unpaired use.

2 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

# 11 GHz (10,700 - 11,700 MHz) CHANNELS

**10,700 - 11,700 MHz, 5.0 MHz bandwidth channels 1**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10702.5 | 2. . . . . | 11692.5 | 2 |
| 10707.5 | 2. . . . . | 11697.5 | 2 |
| 11117.5 | . . . . . | 11607.5 | |
| 11122.5 | . . . . . | 11612.5 | |
| 11127.5 | . . . . . | 11617.5 | |
| 11132.5 | . . . . . | 11622.5 | |
| 11137.5 | . . . . . | 11627.5 | |
| 11142.5 | . . . . . | 11632.5 | |
| 11147.5 | . . . . . | 11637.5 | |
| 11152.5 | . . . . . | 11642.5 | |
| 11157.5 | . . . . . | 11647.5 | |
| 11162.5 | . . . . . | 11652.5 | |
| 11167.5 | . . . . . | 11657.5 | |
| 11172.5 | . . . . . | 11662.5 | |
| 11177.5 | . . . . . | 11667.5 | |
| 11182.5 | . . . . . | 11672.5 | |
| 11187.5 | . . . . . | 11677.5 | |
| 11192.5 | . . . . . | 11682.5 | |
| 11197.5 | . . . . . | 11687.5 | |

1 Alternate channels. These channels should be used only if all other channels at 10,550-10,680 MHz are blocked.
2 These frequencies may be assigned for unpaired use.

**10,700 - 11,700 MHz, 3.75 MHz bandwidth channels 1**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10701.875 | 2. . . . . | 11691.875 | 2 |
| 10705.625 | 2. . . . . | 11695.625 | 2 |
| 11119.375 | . . . . . | 11609.375 | |
| 11123.125 | . . . . . | 11613.125 | |
| 11126.875 | . . . . . | 11616.875 | |
| 11130.625 | . . . . . | 11620.625 | |
| 11134.375 | . . . . . | 11624.375 | |
| 11138.125 | . . . . . | 11628.125 | |
| 11141.875 | . . . . . | 11631.875 | |
| 11145.625 | . . . . . | 11635.625 | |
| 11149.375 | . . . . . | 11639.375 | |
| 11153.125 | . . . . . | 11643.125 | |
| 11156.875 | . . . . . | 11646.875 | |
| 11160.625 | . . . . . | 11650.625 | |
| 11164.375 | . . . . . | 11654.375 | |
| 11168.125 | . . . . . | 11658.125 | |
| 11171.875 | . . . . . | 11661.875 | |
| 11175.625 | . . . . . | 11665.625 | |
| 11179.375 | . . . . . | 11669.375 | |
| 11183.125 | . . . . . | 11673.125 | |
| 11186.875 | . . . . . | 11676.875 | |
| 11190.625 | . . . . . | 11680.625 | |
| 11194.375 | . . . . . | 11684.375 | |
| 11198.125 | . . . . . | 11688.125 | |

1 Alternate channels. These channels should be used only if all other channels at 10,550-10,680 MHz are blocked.
2 These frequencies may be assigned for unpaired use.

# 11 GHz (10,700 - 11,700 MHz) CHANNELS

**10,700 - 11,700 MHz, 2.5 MHz bandwidth channels 1**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10701.25 | 2. . . . . | 11691.25 | 2 |
| 10703.75 | 2. . . . . | 11693.75 | 2 |
| 10706.25 | 2. . . . . | 11696.25 | 2 |
| 10708.75 | 2. . . . . | 11698.75 | 2 |
| 11116.25 | . . . . . | 11606.25 | |
| 11118.75 | . . . . . | 11608.75 | |
| 11121.25 | . . . . . | 11611.25 | |
| 11123.75 | . . . . . | 11613.75 | |
| 11126.25 | . . . . . | 11616.25 | |
| 11128.75 | . . . . . | 11618.75 | |
| 11131.25 | . . . . . | 11621.25 | |
| 11133.75 | . . . . . | 11623.75 | |
| 11136.25 | . . . . . | 11626.25 | |
| 11138.75 | . . . . . | 11628.75 | |
| 11141.25 | . . . . . | 11631.25 | |
| 11143.75 | . . . . . | 11633.75 | |
| 11146.25 | . . . . . | 11636.25 | |
| 11148.75 | . . . . . | 11638.75 | |
| 11151.25 | . . . . . | 11641.25 | |

**10,700 - 11,700 MHz, 2.5 MHz bandwidth channels (cont.) 1**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) |
|---|---|---|
| 11153.75 | . . . . . | 11643.75 |
| 11156.25 | . . . . . | 11646.25 |
| 11158.75 | . . . . . | 11648.75 |
| 11161.25 | . . . . . | 11651.25 |
| 11163.75 | . . . . . | 11653.75 |
| 11166.25 | . . . . . | 11656.25 |
| 11168.75 | . . . . . | 11658.75 |
| 11171.25 | . . . . . | 11661.25 |
| 11173.75 | . . . . . | 11663.75 |
| 11176.25 | . . . . . | 11666.25 |
| 11178.75 | . . . . . | 11668.75 |
| 11181.25 | . . . . . | 11671.25 |
| 11183.75 | . . . . . | 11673.75 |
| 11186.25 | . . . . . | 11676.25 |
| 11188.75 | . . . . . | 11678.75 |
| 11191.25 | . . . . . | 11681.25 |
| 11193.75 | . . . . . | 11683.75 |
| 11196.25 | . . . . . | 11686.25 |
| 11198.75 | . . . . . | 11688.75 |

1 Alternate channels. These channels should be used only if all other channels at 10,550-10,680 MHz are blocked.

2 These frequencies may be assigned for unpaired use.

# 11 GHz (10,700 - 11,700 MHz) CHANNELS

**10,700 - 11,700 MHz, 1.25 MHz bandwidth channels 1**

| Transmit (receive) (MHz) | | Receive (transmit) (MHz) | |
|---|---|---|---|
| 10700.625 | 2 | 11690.625 | 2 |
| 10701.875 | 2 | 11691.875 | 2 |
| 10703.125 | 2 | 11693.125 | 2 |
| 10704.375 | 2 | 11694.375 | 2 |
| 10705.625 | 2 | 11695.625 | 2 |
| 10706.875 | 2 | 11696.875 | 2 |
| 10708.125 | 2 | 11698.125 | 2 |
| 10709.375 | 2 | 11699.375 | 2 |
| 11115.625 | | 11605.625 | |
| 11116.875 | | 11606.875 | |
| 11118.125 | | 11608.125 | |
| 11119.375 | | 11609.375 | |
| 11120.625 | | 11610.625 | |
| 11121.875 | | 11611.875 | |
| 11123.125 | | 11613.125 | |
| 11124.375 | | 11614.375 | |
| 11125.625 | | 11615.625 | |
| 11126.875 | | 11616.875 | |
| 11128.125 | | 11618.125 | |
| 11129.375 | | 11619.375 | |
| 11130.625 | | 11620.625 | |
| 11131.875 | | 11621.875 | |
| 11133.125 | | 11623.125 | |
| 11134.375 | | 11624.375 | |
| 11135.625 | | 11625.625 | |
| 11136.875 | | 11626.875 | |
| 11138.125 | | 11628.125 | |
| 11139.375 | | 11629.375 | |
| 11140.625 | | 11630.625 | |
| 11141.875 | | 11631.875 | |
| 11143.125 | | 11633.125 | |
| 11144.375 | | 11634.375 | |
| 11145.625 | | 11635.625 | |
| 11146.875 | | 11636.875 | |
| 11148.125 | | 11638.125 | |
| 11149.375 | | 11639.375 | |
| 11150.625 | | 11640.625 | |
| 11151.875 | | 11641.875 | |

**10,700 - 11,700 MHz, 1.25 MHz bandwidth channels (cont.) 1**

| Transmit (receive) (MHz) | Receive (transmit) (MHz) |
|---|---|
| 11153.125 | 11643.125 |
| 11154.375 | 11644.375 |
| 11155.625 | 11645.625 |
| 11156.875 | 11646.875 |
| 11158.125 | 11648.125 |
| 11159.375 | 11649.375 |
| 11160.625 | 11650.625 |
| 11161.875 | 11651.875 |
| 11163.125 | 11653.125 |
| 11164.375 | 11654.375 |
| 11165.625 | 11655.625 |
| 11166.875 | 11656.875 |
| 11168.125 | 11658.125 |
| 11169.375 | 11659.375 |
| 11170.625 | 11660.625 |
| 11171.875 | 11661.875 |
| 11173.125 | 11663.125 |
| 11174.375 | 11664.375 |
| 11175.625 | 11665.625 |
| 11176.875 | 11666.875 |
| 11178.125 | 11668.125 |
| 11179.375 | 11669.375 |
| 11180.625 | 11670.625 |
| 11181.875 | 11671.875 |
| 11183.125 | 11673.125 |
| 11184.375 | 11674.375 |
| 11185.625 | 11675.625 |
| 11186.875 | 11676.875 |
| 11188.125 | 11678.125 |
| 11189.375 | 11679.375 |
| 11190.625 | 11680.625 |
| 11191.875 | 11681.875 |
| 11193.125 | 11683.125 |
| 11194.375 | 11684.375 |
| 11195.625 | 11685.625 |
| 11196.875 | 11686.875 |
| 11198.125 | 11688.125 |
| 11199.375 | 11689.375 |

1 Alternate channels. These channels should be used only if all other channels at 10,550-10,680 MHz are blocked.

2 These frequencies may be assigned for unpaired use.