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|----------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------|
| 90-110<br>RADIONAVIGATION 5.62<br>Fixed<br>5.64                |                                                                                       |                                                                             | 90-110<br>RADIONAVIGATION 5.62 US18<br>US2 US104     | Aviation (87)<br>Private Land Mobile (90) |
| 110-112<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION<br>5.64 | 110-130<br>FIXED<br>MARITIME MOBILE<br>MARITIME RADIONAVIGATION 5.60<br>Radiolocation | 110-112<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION 5.60<br>5.64         | 110-130<br>FIXED<br>MARITIME MOBILE<br>Radiolocation | Private Land Mobile (90)                  |
| 112-115<br>RADIONAVIGATION 5.60                                |                                                                                       | 112-117.6<br>RADIONAVIGATION 5.60<br>Fixed<br>Maritime mobile               |                                                      |                                           |
| 115-117.6<br>RADIONAVIGATION 5.60<br>Fixed<br>Maritime mobile  |                                                                                       | 5.64 5.65                                                                   |                                                      |                                           |
| 5.64 5.66                                                      |                                                                                       | 117.6-126<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION 5.60               |                                                      |                                           |
| 117.6-126<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION 5.60  |                                                                                       | 5.64                                                                        |                                                      |                                           |
| 5.64                                                           |                                                                                       | 126-129<br>RADIONAVIGATION 5.60<br>Fixed<br>Maritime mobile                 |                                                      |                                           |
| 126-129<br>RADIONAVIGATION 5.60                                |                                                                                       | 5.64 5.65                                                                   |                                                      |                                           |
| 129-130<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION 5.60    |                                                                                       | 129-130<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION 5.60                 |                                                      |                                           |
| 5.64                                                           | 5.61 5.64                                                                             | 5.64                                                                        | 5.64 US2                                             |                                           |
| 130-135.7<br>FIXED<br>MARITIME MOBILE                          | 130-135.7<br>FIXED<br>MARITIME MOBILE                                                 | 130-135.7<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION                    | 130-160<br>FIXED<br>MARITIME MOBILE                  | Maritime (80)                             |
| 5.64 5.67                                                      | 5.64                                                                                  | 5.64                                                                        |                                                      |                                           |
| 135.7-137.8<br>FIXED<br>MARITIME MOBILE<br>Amateur 5.67A       | 135.7-137.8<br>FIXED<br>MARITIME MOBILE<br>Amateur 5.67A                              | 135.7-137.8<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION<br>Amateur 5.67A |                                                      |                                           |
| 5.64 5.67 5.67B                                                | 5.64                                                                                  | 5.64 5.67B                                                                  |                                                      |                                           |
| 137.8-148.5<br>FIXED<br>MARITIME MOBILE                        | 137.8-160<br>FIXED<br>MARITIME MOBILE                                                 | 137.8-160<br>FIXED<br>MARITIME MOBILE<br>RADIONAVIGATION                    |                                                      |                                           |
| 5.64 5.67                                                      | 5.64                                                                                  | 5.64                                                                        | 5.64 US2                                             |                                           |
| 148.5-255<br>BROADCASTING                                      |                                                                                       |                                                                             |                                                      |                                           |
| 5.68 5.69 5.70                                                 |                                                                                       |                                                                             |                                                      |                                           |

| Table of Frequency Allocations                                                                            |                                                                                                           |                                                                                            | 160-1800 kHz (LF/MF)                                                                                                                     |                             |                                |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|
| International Table                                                                                       |                                                                                                           |                                                                                            | United States Table                                                                                                                      |                             | FCC Rule Part(s)               |
| Region 1 Table                                                                                            | Region 2 Table                                                                                            | Region 3 Table                                                                             | Federal Table                                                                                                                            | Non-Federal Table           |                                |
| (See previous page)                                                                                       | 160-190<br>FIXED                                                                                          | 160-190<br>FIXED<br>Aeronautical radionavigation                                           | 160-190<br>FIXED<br>MARITIME MOBIILE<br><br>US2                                                                                          | 160-190<br>FIXED<br><br>US2 |                                |
|                                                                                                           | 190-200<br>AERONAUTICAL RADIONAVIGATION                                                                   |                                                                                            | 190-200<br>AERONAUTICAL RADIONAVIGATION US18<br><br>US2                                                                                  |                             | Aviation (87)                  |
| 255-283.5<br>BROADCASTING<br>AERONAUTICAL RADIONAVIGATION                                                 | 200-275<br>AERONAUTICAL RADIONAVIGATION<br>Aeronautical mobile                                            | 200-285<br>AERONAUTICAL RADIONAVIGATION<br>Aeronautical mobile                             | 200-275<br>AERONAUTICAL RADIONAVIGATION US18<br>Aeronautical mobile<br><br>US2                                                           |                             |                                |
| 5.70 5.71<br>283.5-315<br>AERONAUTICAL RADIONAVIGATION<br>MARITIME RADIONAVIGATION<br>(radiobeacons) 5.73 | 275-285<br>AERONAUTICAL RADIONAVIGATION<br>Aeronautical mobile<br>Maritime radionavigation (radiobeacons) |                                                                                            | 275-285<br>AERONAUTICAL RADIONAVIGATION<br>Aeronautical mobile<br>Maritime radionavigation (radiobeacons)<br><br>US2 US18                |                             |                                |
| 5.72 5.74<br>315-325<br>AERONAUTICAL RADIONAVIGATION<br>Maritime radionavigation (radiobeacons) 5.73      | 285-315<br>AERONAUTICAL RADIONAVIGATION<br>MARITIME RADIONAVIGATION (radiobeacons) 5.73                   |                                                                                            | 285-325<br>MARITIME RADIONAVIGATION (radiobeacons) 5.73<br>Aeronautical radionavigation (radiobeacons)                                   |                             |                                |
| 5.72 5.75<br>325-405<br>AERONAUTICAL<br>RADIONAVIGATION                                                   | 315-325<br>MARITIME RADIONAVIGATION<br>(radiobeacons) 5.73<br>Aeronautical radionavigation                | 315-325<br>AERONAUTICAL RADIONAVIGATION<br>MARITIME RADIONAVIGATION<br>(radiobeacons) 5.73 | US2 US18 US364                                                                                                                           |                             |                                |
|                                                                                                           | 325-335<br>AERONAUTICAL RADIONAVIGATION<br>Aeronautical mobile<br>Maritime radionavigation (radiobeacons) | 325-405<br>AERONAUTICAL RADIONAVIGATION<br>Aeronautical mobile                             | 325-335<br>AERONAUTICAL RADIONAVIGATION (radiobeacons)<br>Aeronautical mobile<br>Maritime radionavigation (radiobeacons)<br><br>US2 US18 |                             | Aviation (87)                  |
| 5.72<br>405-415<br>RADIONAVIGATION 5.76                                                                   | 335-405<br>AERONAUTICAL RADIONAVIGATION<br>Aeronautical mobile                                            |                                                                                            | 335-405<br>AERONAUTICAL RADIONAVIGATION (radiobeacons) US18<br>Aeronautical mobile<br><br>US2                                            |                             |                                |
| 5.72                                                                                                      | 405-415<br>RADIONAVIGATION 5.76<br>Aeronautical mobile                                                    |                                                                                            | 405-415<br>RADIONAVIGATION 5.76 US18<br>Aeronautical mobile<br><br>US2                                                                   |                             |                                |
|                                                                                                           |                                                                                                           |                                                                                            |                                                                                                                                          |                             | Maritime (80)<br>Aviation (87) |

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| 415-435<br>MARITIME MOBILE 5.79<br>AERONAUTICAL RADIONAVIGATION              | 415-495<br>MARITIME MOBILE 5.79 5.79A<br>Aeronautical radionavigation 5.80 | 415-435<br>MARITIME MOBILE 5.79<br>AERONAUTICAL RADIONAVIGATION                                                    |                                                                                                        |                                                                           |
| 5.72                                                                         |                                                                            | US2                                                                                                                |                                                                                                        |                                                                           |
| 435-495<br>MARITIME MOBILE 5.79 5.79A<br>Aeronautical radionavigation        |                                                                            | 435-495<br>MARITIME MOBILE 5.79<br>5.79A<br>Aeronautical radionavigation                                           | 435-495<br>MARITIME MOBILE 5.79<br>5.79A                                                               |                                                                           |
| 5.72 5.82                                                                    |                                                                            | 5.82 US2 US231                                                                                                     | 5.82 US2 US231                                                                                         |                                                                           |
| 495-505<br>MOBILE 5.82A                                                      | 495-505<br>MOBILE (distress and calling)                                   |                                                                                                                    |                                                                                                        |                                                                           |
| 5.82B                                                                        |                                                                            |                                                                                                                    |                                                                                                        |                                                                           |
| 505-526.5<br>MARITIME MOBILE 5.79 5.79A 5.84<br>AERONAUTICAL RADIONAVIGATION | 505-510<br>MARITIME MOBILE 5.79                                            | 505-526.5<br>MARITIME MOBILE 5.79 5.79A 5.84<br>AERONAUTICAL RADIONAVIGATION<br>Aeronautical mobile<br>Land mobile | 505-510<br>MARITIME MOBILE 5.79                                                                        | Maritime (80)                                                             |
| 5.72<br>526.5-1606.5<br>BROADCASTING                                         | 510-525<br>MOBILE 5.79A 5.84<br>AERONAUTICAL RADIONAVIGATION               |                                                                                                                    | 510-525<br>MARITIME MOBILE (ships only) 5.79A 5.84<br>AERONAUTICAL RADIONAVIGATION (radiobeacons) US18 | Maritime (80)<br>Aviation (87)                                            |
|                                                                              | 525-535<br>BROADCASTING 5.86<br>AERONAUTICAL RADIONAVIGATION               |                                                                                                                    | US14 US225                                                                                             |                                                                           |
|                                                                              | 535-1605<br>BROADCASTING                                                   | 526.5-535<br>BROADCASTING<br>Mobile<br>5.88                                                                        | 525-535<br>MOBILE US221<br>AERONAUTICAL RADIONAVIGATION (radiobeacons) US18                            | Aviation (87)<br>Private Land Mobile (90)                                 |
|                                                                              | 5.87 5.87A                                                                 | 535-1606.5<br>BROADCASTING                                                                                         | US239                                                                                                  |                                                                           |
| 1606.5-1625<br>FIXED<br>MARITIME MOBILE 5.90<br>LAND MOBILE                  | 1605-1625<br>BROADCASTING 5.89                                             | 535-1605                                                                                                           | 535-1605<br>BROADCASTING<br>NG1 NG5                                                                    | Radio Broadcast (AM)(73)<br>Private Land Mobile (90)                      |
| 5.92                                                                         | 1625-1705<br>FIXED<br>MOBILE<br>BROADCASTING 5.89<br>Radiolocation         | 1606.5-1800<br>FIXED<br>MOBILE<br>RADIOLOCATION<br>RADIONAVIGATION                                                 | 1605-1615<br>MOBILE US221 G127                                                                         | Radio Broadcast (AM)(73)<br>Alaska Fixed (80)<br>Private Land Mobile (90) |
| 1625-1635<br>RADIOLOCATION                                                   |                                                                            |                                                                                                                    | 1615-1705                                                                                              |                                                                           |
| 5.93                                                                         |                                                                            |                                                                                                                    | US299                                                                                                  | US299 NG1 NG5                                                             |
| 1635-1800<br>FIXED<br>MARITIME MOBILE 5.90<br>LAND MOBILE                    |                                                                            | 1705-1800<br>FIXED<br>MOBILE<br>RADIOLOCATION<br>AERONAUTICAL RADIONAVIGATION                                      | 5.91                                                                                                   | 1705-1800<br>FIXED<br>MOBILE<br>RADIOLOCATION<br>US240                    |
| 5.92 5.96                                                                    |                                                                            |                                                                                                                    |                                                                                                        |                                                                           |

| Table of Frequency Allocations                                                                         |                                                                                                        |                                                                                                           | 1800-3025 kHz (MF/HF)                      |                                                            |                                                |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|------------------------------------------------|
| International Table                                                                                    |                                                                                                        |                                                                                                           | United States Table                        |                                                            | FCC Rule Part(s)                               |
| Region 1 Table                                                                                         | Region 2 Table                                                                                         | Region 3 Table                                                                                            | Federal Table                              | Non-Federal Table                                          |                                                |
| 1800-1810<br>RADIOLOCATION                                                                             | 1800-1850<br>AMATEUR                                                                                   | 1800-2000<br>AMATEUR<br>FIXED<br>MOBILE except aeronautical<br>mobile<br>RADIONAVIGATION<br>Radiolocation | 1800-1900                                  | 1800-1900<br>AMATEUR                                       | Amateur Radio (97)                             |
| 5.93<br>1810-1850<br>AMATEUR                                                                           |                                                                                                        |                                                                                                           |                                            |                                                            |                                                |
| 5.98 5.99 5.100 5.101                                                                                  |                                                                                                        |                                                                                                           |                                            |                                                            |                                                |
| 1850-2000<br>FIXED<br>MOBILE except aeronautical mobile                                                | 1850-2000<br>AMATEUR<br>FIXED<br>MOBILE except aeronautical mobile<br>RADIOLOCATION<br>RADIONAVIGATION |                                                                                                           | 1900-2000<br>RADIOLOCATION                 |                                                            | Private Land Mobile (90)<br>Amateur Radio (97) |
| 5.92 5.96 5.103                                                                                        | 5.102                                                                                                  | 5.97                                                                                                      | US290                                      |                                                            |                                                |
| 2000-2025<br>FIXED<br>MOBILE except aeronautical mobile (R)                                            | 2000-2065<br>FIXED<br>MOBILE                                                                           |                                                                                                           | 2000-2065<br>FIXED<br>MOBILE               | 2000-2065<br>MARITIME MOBILE                               | Maritime (80)<br>Private Land Mobile (90)      |
| 5.92 5.103<br>2025-2045<br>FIXED<br>MOBILE except aeronautical mobile (R)<br>Meteorological aids 5.104 |                                                                                                        |                                                                                                           |                                            |                                                            |                                                |
| 5.92 5.103                                                                                             |                                                                                                        |                                                                                                           |                                            |                                                            |                                                |
| 2045-2160<br>FIXED<br>MARITIME MOBILE<br>LAND MOBILE                                                   | 2065-2107<br>MARITIME MOBILE 5.105                                                                     |                                                                                                           | US340                                      |                                                            |                                                |
|                                                                                                        | 5.106                                                                                                  |                                                                                                           | US340                                      |                                                            |                                                |
| 5.92<br>2160-2170<br>RADIOLOCATION                                                                     | 2107-2170<br>FIXED<br>MOBILE                                                                           |                                                                                                           | 2107-2170<br>FIXED<br>MOBILE               | 2107-2170<br>FIXED<br>MOBILE except aeronautical<br>mobile | Maritime (80)<br>Private Land Mobile (90)      |
| 5.93 5.107                                                                                             |                                                                                                        |                                                                                                           | US340                                      | US340 NG7                                                  |                                                |
| 2170-2173.5<br>MARITIME MOBILE                                                                         |                                                                                                        |                                                                                                           | 2170-2173.5<br>MARITIME MOBILE (telephony) | 2170-2173.5<br>MARITIME MOBILE                             | Maritime (80)                                  |
|                                                                                                        |                                                                                                        |                                                                                                           | US340                                      | US340                                                      |                                                |

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| 2173.5-2190.5<br>MOBILE (distress and calling)                                    |                                                            | 2173.5-2190.5<br>MOBILE (distress and calling)             |                                                                  | Maritime (80)<br>Aviation (87)                             |
| 5.108 5.109 5.110 5.111                                                           |                                                            | 5.108 5.109 5.110 5.111 US279 US340                        |                                                                  |                                                            |
| 2190.5-2194<br>MARITIME MOBILE                                                    |                                                            | 2190.5-2194<br>MARITIME MOBILE (telephony)                 | 2190.5-2194<br>MARITIME MOBILE                                   | Maritime (80)                                              |
|                                                                                   |                                                            | US340                                                      | US340                                                            |                                                            |
| 2194-2300<br>FIXED<br>MOBILE except aeronautical mobile (R)                       | 2194-2300<br>FIXED<br>MOBILE                               | 2194-2495<br>FIXED<br>MOBILE                               | 2194-2495<br>FIXED<br>MOBILE except aeronautical<br>mobile       | Maritime (80)<br>Private Land Mobile (90)                  |
| 5.92 5.103 5.112                                                                  | 5.112                                                      |                                                            |                                                                  |                                                            |
| 2300-2498<br>FIXED<br>MOBILE except aeronautical mobile (R)<br>BROADCASTING 5.113 | 2300-2495<br>FIXED<br>MOBILE<br>BROADCASTING 5.113         |                                                            |                                                                  |                                                            |
| 5.103                                                                             | 2495-2501<br>STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz) | 2495-2505<br>STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz) |                                                                  |                                                            |
| 2498-2501<br>STANDARD FREQUENCY AND TIME<br>SIGNAL (2500 kHz)                     |                                                            |                                                            |                                                                  |                                                            |
| 2501-2502<br>STANDARD FREQUENCY AND TIME SIGNAL<br>Space research                 |                                                            |                                                            |                                                                  |                                                            |
| 2502-2625<br>FIXED<br>MOBILE except aeronautical mobile (R)                       | 2502-2505<br>STANDARD FREQUENCY AND TIME SIGNAL            | US1 US340                                                  |                                                                  |                                                            |
| 5.92 5.103 5.114                                                                  | 2505-2850<br>FIXED<br>MOBILE                               | 2505-2850<br>FIXED<br>MOBILE US285                         | 2505-2850<br>FIXED<br>MOBILE except aeronautical<br>mobile US285 | Maritime (80)<br>Aviation (87)<br>Private Land Mobile (90) |
| 2625-2650<br>MARITIME MOBILE<br>MARITIME RADIONAVIGATION                          |                                                            |                                                            |                                                                  |                                                            |
| 5.92                                                                              |                                                            |                                                            |                                                                  |                                                            |
| 2650-2850<br>FIXED<br>MOBILE except aeronautical mobile (R)                       |                                                            |                                                            |                                                                  |                                                            |
| 5.92 5.103                                                                        |                                                            | US22 US340                                                 | US22 US340                                                       |                                                            |
| 2850-3025<br>AERONAUTICAL MOBILE (R)                                              |                                                            | 2850-3025<br>AERONAUTICAL MOBILE (R)                       |                                                                  | Aviation (87)                                              |
| 5.111 5.115                                                                       |                                                            | 5.111 5.115 US283 US340                                    |                                                                  |                                                            |

| Table of Frequency Allocations                                                                  |                                                |                                                 | 3.025-5.68 MHz (HF)                                                     |                   |                                                            |
|-------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------|-------------------|------------------------------------------------------------|
| International Table                                                                             |                                                |                                                 | United States Table                                                     |                   | FCC Rule Part(s)                                           |
| Region 1 Table                                                                                  | Region 2 Table                                 | Region 3 Table                                  | Federal Table                                                           | Non-Federal Table |                                                            |
| 3.025-3.155<br>AERONAUTICAL MOBILE (OR)                                                         |                                                |                                                 | 3.025-3.155<br>AERONAUTICAL MOBILE (OR)                                 |                   |                                                            |
|                                                                                                 |                                                |                                                 | US340                                                                   |                   |                                                            |
| 3.155-3.2<br>FIXED<br>MOBILE except aeronautical mobile (R)                                     |                                                |                                                 | 3.155-3.23<br>FIXED<br>MOBILE except aeronautical mobile (R)            |                   | Maritime (80)<br>Private Land Mobile (90)                  |
| 5.116 5.117<br>3.2-3.23<br>FIXED<br>MOBILE except aeronautical mobile (R)<br>BROADCASTING 5.113 |                                                |                                                 |                                                                         |                   |                                                            |
| 5.116                                                                                           |                                                |                                                 | US22 US340                                                              |                   |                                                            |
| 3.23-3.4<br>FIXED<br>MOBILE except aeronautical mobile<br>BROADCASTING 5.113                    |                                                |                                                 | 3.23-3.4<br>FIXED<br>MOBILE except aeronautical mobile<br>Radiolocation |                   | Maritime (80)<br>Aviation (87)<br>Private Land Mobile (90) |
| 5.116 5.118                                                                                     |                                                |                                                 | US340                                                                   |                   |                                                            |
| 3.4-3.5<br>AERONAUTICAL MOBILE (R)                                                              |                                                |                                                 | 3.4-3.5<br>AERONAUTICAL MOBILE (R)                                      |                   | Aviation (87)                                              |
|                                                                                                 |                                                |                                                 | US283 US340                                                             |                   |                                                            |
| 3.5-3.8<br>AMATEUR<br>FIXED<br>MOBILE except aeronautical mobile                                | 3.5-3.75<br>AMATEUR<br>5.119                   | 3.5-3.9<br>AMATEUR<br>FIXED<br>MOBILE           | 3.5-4                                                                   | 3.5-4<br>AMATEUR  | Amateur Radio (97)                                         |
| 5.92                                                                                            | 3.75-4<br>AMATEUR                              |                                                 |                                                                         |                   |                                                            |
| 3.8-3.9<br>FIXED<br>AERONAUTICAL MOBILE (OR)<br>LAND MOBILE                                     | FIXED<br>MOBILE except aeronautical mobile (R) |                                                 |                                                                         |                   |                                                            |
| 3.9-3.95<br>AERONAUTICAL MOBILE (OR)                                                            |                                                | 3.9-3.95<br>AERONAUTICAL MOBILE<br>BROADCASTING |                                                                         |                   |                                                            |
| 5.123                                                                                           |                                                |                                                 |                                                                         |                   |                                                            |
| 3.95-4<br>FIXED<br>BROADCASTING                                                                 |                                                | 3.95-4<br>FIXED<br>BROADCASTING                 |                                                                         |                   |                                                            |
|                                                                                                 | 5.122 5.125                                    | 5.126                                           | US340                                                                   | US340             |                                                            |
| 4-4.063<br>FIXED<br>MARITIME MOBILE 5.127                                                       |                                                |                                                 | 4-4.063<br>FIXED<br>MARITIME MOBILE                                     |                   | Maritime (80)                                              |
| 5.126                                                                                           |                                                |                                                 | US340                                                                   |                   |                                                            |

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| 4.063-4.438<br>MARITIME MOBILE 5.79A 5.109 5.110 5.130 5.131 5.132                  |                                                                                   |                                                               | 4.063-4.438<br>MARITIME MOBILE 5.79A 5.109 5.110 5.130 5.131 5.132 US82        |                                  | Maritime (80)<br>Aviation (87)                                                   |
| 5.128                                                                               |                                                                                   |                                                               | US296 US340                                                                    |                                  |                                                                                  |
| 4.438-4.65<br>FIXED<br>MOBILE except aeronautical mobile (R)                        |                                                                                   | 4.438-4.65<br>FIXED<br>MOBILE except aeronautical mobile      | 4.438-4.65<br>FIXED<br>MOBILE except aeronautical mobile (R)<br><br>US22 US340 |                                  | Maritime (80)<br>Aviation (87)<br>Private Land Mobile (90)                       |
| 4.65-4.7<br>AERONAUTICAL MOBILE (R)                                                 |                                                                                   |                                                               | 4.65-4.7<br>AERONAUTICAL MOBILE (R)<br><br>US282 US283 US340                   |                                  | Aviation (87)                                                                    |
| 4.7-4.75<br>AERONAUTICAL MOBILE (OR)                                                |                                                                                   |                                                               | 4.7-4.75<br>AERONAUTICAL MOBILE (OR)<br><br>US340                              |                                  |                                                                                  |
| 4.75-4.85<br>FIXED<br>AERONAUTICAL MOBILE (OR)<br>LAND MOBILE<br>BROADCASTING 5.113 | 4.75-4.85<br>FIXED<br>MOBILE except aeronautical mobile (R)<br>BROADCASTING 5.113 | 4.75-4.85<br>FIXED<br>BROADCASTING 5.113<br>Land mobile       | 4.75-4.85<br>FIXED<br>MOBILE except aeronautical mobile (R)<br><br>US340       |                                  | Maritime (80)<br>Private Land Mobile (90)                                        |
| 4.85-4.995<br>FIXED<br>LAND MOBILE<br>BROADCASTING 5.113                            |                                                                                   |                                                               | 4.85-4.995<br>FIXED<br>MOBILE<br><br>US340                                     | 4.85-4.995<br>FIXED<br><br>US340 | Aviation (87)<br>Private Land Mobile (90)                                        |
| 4.995-5.003<br>STANDARD FREQUENCY AND TIME SIGNAL (5 MHz)                           |                                                                                   |                                                               | 4.995-5.005<br>STANDARD FREQUENCY AND TIME SIGNAL (5 MHz)                      |                                  |                                                                                  |
| 5.003-5.005<br>STANDARD FREQUENCY AND TIME SIGNAL<br>Space research                 |                                                                                   |                                                               | US1 US340                                                                      |                                  |                                                                                  |
| 5.005-5.06<br>FIXED<br>BROADCASTING 5.113                                           |                                                                                   |                                                               | 5.005-5.06<br>FIXED US22<br><br>US340                                          |                                  | Aviation (87)<br>Private Land Mobile (90)                                        |
| 5.06-5.25<br>FIXED<br>Mobile except aeronautical mobile                             |                                                                                   |                                                               | 5.06-5.45<br>FIXED US22<br>Mobile except aeronautical mobile                   |                                  | Maritime (80)<br>Aviation (87)<br>Private Land Mobile (90)<br>Amateur Radio (97) |
| 5.133                                                                               |                                                                                   |                                                               |                                                                                |                                  |                                                                                  |
| 5.25-5.45<br>FIXED<br>MOBILE except aeronautical mobile                             |                                                                                   |                                                               | US23 US212 US340                                                               |                                  |                                                                                  |
| 5.45-5.48<br>FIXED<br>AERONAUTICAL MOBILE (OR)<br>LAND MOBILE                       | 5.45-5.48<br>AERONAUTICAL MOBILE (R)                                              | 5.45-5.48<br>FIXED<br>AERONAUTICAL MOBILE (OR)<br>LAND MOBILE | 5.45-5.68<br>AERONAUTICAL MOBILE (R)                                           |                                  | Aviation (87)                                                                    |
| 5.48-5.68<br>AERONAUTICAL MOBILE (R)                                                |                                                                                   |                                                               |                                                                                |                                  |                                                                                  |
| 5.111 5.115                                                                         |                                                                                   |                                                               | 5.111 5.115 US283 US340                                                        |                                  |                                                                                  |

| Table of Frequency Allocations                            |                                                            |                                                            | 5.68-10.005 MHz (HF)                                                    |                                                    |                                                                                        |
|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------|
| International Table                                       |                                                            |                                                            | United States Table                                                     |                                                    | FCC Rule Part(s)                                                                       |
| Region 1 Table                                            | Region 2 Table                                             | Region 3 Table                                             | Federal Table                                                           | Non-Federal Table                                  |                                                                                        |
| 5.68-5.73<br>AERONAUTICAL MOBILE (OR)                     |                                                            |                                                            | 5.68-5.73<br>AERONAUTICAL MOBILE (OR)                                   |                                                    |                                                                                        |
| 5.111 5.115                                               |                                                            |                                                            | 5.111 5.115 US340                                                       |                                                    |                                                                                        |
| 5.73-5.9<br>FIXED<br>LAND MOBILE                          | 5.73-5.9<br>FIXED<br>MOBILE except aeronautical mobile (R) | 5.73-5.9<br>FIXED<br>Mobile except aeronautical mobile (R) | 5.73-5.9<br>FIXED<br>MOBILE except aeronautical mobile (R)<br><br>US340 |                                                    | Maritime (80)<br>Aviation (87)<br>Private Land Mobile (90)                             |
| 5.9-5.95<br>BROADCASTING 5.134                            |                                                            |                                                            | 5.9-6.2<br>BROADCASTING 5.134                                           |                                                    | International Broadcast<br>Stations (73F)                                              |
| 5.136                                                     |                                                            |                                                            | US136 US340                                                             |                                                    |                                                                                        |
| 5.95-6.2<br>BROADCASTING                                  |                                                            |                                                            | 6.2-6.525<br>MARITIME MOBILE 5.109 5.110 5.130 5.132 US82               |                                                    | Maritime (80)                                                                          |
| 6.2-6.525<br>MARITIME MOBILE 5.109 5.110 5.130 5.132      |                                                            |                                                            | US296 US340                                                             |                                                    |                                                                                        |
| 5.137                                                     |                                                            |                                                            | 6.525-6.685<br>AERONAUTICAL MOBILE (R)                                  |                                                    | Aviation (87)                                                                          |
| 6.525-6.685<br>AERONAUTICAL MOBILE (R)                    |                                                            |                                                            | US283 US340                                                             |                                                    |                                                                                        |
| 6.685-6.765<br>AERONAUTICAL MOBILE (OR)                   |                                                            |                                                            | 6.685-6.765<br>AERONAUTICAL MOBILE (OR)<br><br>US340                    |                                                    |                                                                                        |
| 6.765-7<br>FIXED<br>MOBILE except aeronautical mobile (R) |                                                            |                                                            | 6.765-7<br>FIXED US22<br>MOBILE except aeronautical mobile (R)          |                                                    | ISM Equipment (18)<br>Private Land Mobile (90)                                         |
| 5.138                                                     |                                                            |                                                            | 5.138 US340                                                             |                                                    |                                                                                        |
| 7-7.1<br>AMATEUR<br>AMATEUR-SATELLITE                     |                                                            |                                                            | 7-7.2                                                                   | 7-7.1<br>AMATEUR<br>AMATEUR-SATELLITE<br><br>US340 | Amateur Radio (97)                                                                     |
| 5.140 5.141 5.141A                                        |                                                            |                                                            |                                                                         | 7.1-7.2<br>AMATEUR                                 |                                                                                        |
| 7.1-7.2<br>AMATEUR 5.142                                  |                                                            |                                                            |                                                                         | US340                                              |                                                                                        |
| 5.141A 5.141B                                             |                                                            |                                                            | 7.2-7.3<br>BROADCASTING                                                 | 7.2-7.3<br>AMATEUR                                 | International Broadcast<br>Stations (73F)<br>Amateur Radio (97)                        |
| 7.2-7.3<br>BROADCASTING                                   | 7.2-7.3<br>AMATEUR                                         | 7.2-7.3<br>BROADCASTING                                    | US142 US340                                                             | US142 US340                                        |                                                                                        |
| 7.3-7.4<br>BROADCASTING 5.134                             |                                                            |                                                            | 7.3-7.4<br>BROADCASTING 5.134                                           |                                                    | International Broadcast<br>Stations (73F)<br>Maritime (80)<br>Private Land Mobile (90) |
| 5.143 5.143A 5.143B 5.143C 5.143D                         |                                                            |                                                            | US136 US340                                                             |                                                    |                                                                                        |

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|-----------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| 7.4-7.45<br>BROADCASTING                                              | 7.4-7.45<br>FIXED<br>MOBILE except aeronautical mobile (R) | 7.4-7.45<br>BROADCASTING                                        | 7.4-7.45<br>FIXED<br>MOBILE except aeronautical mobile (R) |                                                            |
| 5.143B 5.143C                                                         |                                                            | 5.143A 5.143C                                                   | US142 US340                                                |                                                            |
| 7.45-8.1<br>FIXED<br>MOBILE except aeronautical mobile (R)            |                                                            | 7.45-8.1<br>FIXED US22<br>MOBILE except aeronautical mobile (R) | US340                                                      | Maritime (80)<br>Aviation (87)<br>Private Land Mobile (90) |
| 5.144                                                                 |                                                            |                                                                 |                                                            |                                                            |
| 8.1-8.195<br>FIXED<br>MARITIME MOBILE                                 |                                                            | 8.1-8.195<br>FIXED<br>MARITIME MOBILE                           | US340                                                      | Maritime (80)                                              |
| 8.195-8.815<br>MARITIME MOBILE 5.109 5.110 5.132 5.145                |                                                            | 8.195-8.815<br>MARITIME MOBILE 5.109 5.110 5.132 5.145 US82     |                                                            | Maritime (80)<br>Aviation (87)                             |
| 5.111                                                                 |                                                            | 5.111 US296 US340                                               |                                                            |                                                            |
| 8.815-8.965<br>AERONAUTICAL MOBILE (R)                                |                                                            | 8.815-8.965<br>AERONAUTICAL MOBILE (R)                          |                                                            | Aviation (87)                                              |
|                                                                       |                                                            | US340                                                           |                                                            |                                                            |
| 8.965-9.04<br>AERONAUTICAL MOBILE (OR)                                |                                                            | 8.965-9.04<br>AERONAUTICAL MOBILE (OR)                          |                                                            |                                                            |
|                                                                       |                                                            | US340                                                           |                                                            |                                                            |
| 9.04-9.4<br>FIXED                                                     |                                                            | 9.04-9.4<br>FIXED                                               |                                                            | Maritime (80)<br>Private Land Mobile (90)                  |
|                                                                       |                                                            | US340                                                           |                                                            |                                                            |
| 9.4-9.5<br>BROADCASTING 5.134                                         |                                                            | 9.4-9.9<br>BROADCASTING 5.134                                   |                                                            | International Broadcast<br>Stations (73F)                  |
| 5.146                                                                 |                                                            |                                                                 |                                                            |                                                            |
| 9.5-9.9<br>BROADCASTING                                               |                                                            |                                                                 |                                                            |                                                            |
| 5.147                                                                 |                                                            | US136 US340                                                     |                                                            |                                                            |
| 9.9-9.995<br>FIXED                                                    |                                                            | 9.9-9.995<br>FIXED                                              |                                                            | Private Land Mobile (90)                                   |
|                                                                       |                                                            | US340                                                           |                                                            |                                                            |
| 9.995-10.003<br>STANDARD FREQUENCY AND TIME SIGNAL (10 MHz)           |                                                            | 9.995-10.005<br>STANDARD FREQUENCY AND TIME SIGNAL (10 MHz)     |                                                            |                                                            |
| 5.111                                                                 |                                                            |                                                                 |                                                            |                                                            |
| 10.003-10.005<br>STANDARD FREQUENCY AND TIME SIGNAL<br>Space research |                                                            |                                                                 |                                                            |                                                            |
| 5.111                                                                 |                                                            | 5.111 US1 US340                                                 |                                                            |                                                            |

| Table of Frequency Allocations                                 |                |                | 10.005-15.01 MHz (HF)                                                         |                                          |                                           |
|----------------------------------------------------------------|----------------|----------------|-------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------|
| International Table                                            |                |                | United States Table                                                           |                                          | FCC Rule Part(s)                          |
| Region 1 Table                                                 | Region 2 Table | Region 3 Table | Federal Table                                                                 | Non-Federal Table                        |                                           |
| 10.005-10.1<br>AERONAUTICAL MOBILE (R)                         |                |                | 10.005-10.1<br>AERONAUTICAL MOBILE (R)                                        |                                          | Aviation (87)                             |
| 5.111                                                          |                |                | 5.111 US283 US340                                                             |                                          |                                           |
| 10.1-10.15<br>FIXED<br>Amateur                                 |                |                | 10.1-10.15<br><br>US247 US340                                                 | 10.1-10.15<br>AMATEUR US247<br><br>US340 | Amateur Radio (97)                        |
| 10.15-11.175<br>FIXED<br>Mobile except aeronautical mobile (R) |                |                | 10.15-11.175<br>FIXED<br>Mobile except aeronautical mobile (R)<br><br>US340   |                                          | Private Land Mobile (90)                  |
| 11.175-11.275<br>AERONAUTICAL MOBILE (OR)                      |                |                | 11.175-11.275<br>AERONAUTICAL MOBILE (OR)<br><br>US340                        |                                          |                                           |
| 11.275-11.4<br>AERONAUTICAL MOBILE (R)                         |                |                | 11.275-11.4<br>AERONAUTICAL MOBILE (R)<br><br>US283 US340                     |                                          | Aviation (87)                             |
| 11.4-11.6<br>FIXED                                             |                |                | 11.4-11.6<br>FIXED<br><br>US340                                               |                                          | Private Land Mobile (90)                  |
| 11.6-11.65<br>BROADCASTING 5.134                               |                |                | 11.6-12.1<br>BROADCASTING 5.134                                               |                                          | International Broadcast<br>Stations (73F) |
| 5.146                                                          |                |                |                                                                               |                                          |                                           |
| 11.65-12.05<br>BROADCASTING                                    |                |                |                                                                               |                                          |                                           |
| 5.147                                                          |                |                |                                                                               |                                          |                                           |
| 12.05-12.1<br>BROADCASTING 5.134                               |                |                |                                                                               |                                          |                                           |
| 5.146                                                          |                |                | US136 US340                                                                   |                                          |                                           |
| 12.1-12.23<br>FIXED                                            |                |                | 12.1-12.23<br>FIXED<br><br>US340                                              |                                          | Private Land Mobile (90)                  |
| 12.23-13.2<br>MARITIME MOBILE 5.109 5.110 5.132 5.145          |                |                | 12.23-13.2<br>MARITIME MOBILE 5.109 5.110 5.132 5.145 US82<br><br>US296 US340 |                                          | Maritime (80)                             |
| 13.2-13.26<br>AERONAUTICAL MOBILE (OR)                         |                |                | 13.2-13.26<br>AERONAUTICAL MOBILE (OR)<br><br>US340                           |                                          |                                           |

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|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 13.26-13.36<br>AERONAUTICAL MOBILE (R)                                                                                                       | 13.26-13.36<br>AERONAUTICAL MOBILE (R)<br>US283 US340                         | Aviation (87)                                                                        |
| 13.36-13.41<br>FIXED<br>RADIO ASTRONOMY<br>5.149                                                                                             | 13.36-13.41<br>RADIO ASTRONOMY<br>US342 G115                                  | 13.36-13.41<br>RADIO ASTRONOMY<br>US342                                              |
| 13.41-13.57<br>FIXED<br>Mobile except aeronautical mobile (R)<br>5.150                                                                       | 13.41-13.57<br>FIXED<br>Mobile except aeronautical mobile (R)<br>5.150 US340  | 13.41-13.57<br>FIXED<br>5.150 US340                                                  |
| 13.57-13.6<br>BROADCASTING 5.134<br>5.151<br>13.6-13.8<br>BROADCASTING<br>13.8-13.87<br>BROADCASTING 5.134<br>5.151                          | 13.57-13.87<br>BROADCASTING 5.134<br>US136 US340                              | International Broadcast<br>Stations (73F)                                            |
| 13.87-14<br>FIXED<br>Mobile except aeronautical mobile (R)                                                                                   | 13.87-14<br>FIXED<br>Mobile except aeronautical mobile (R)<br>US340           | 13.87-14<br>FIXED<br>US340                                                           |
| 14-14.25<br>AMATEUR<br>AMATEUR-SATELLITE<br>14.25-14.35<br>AMATEUR<br>5.152                                                                  | 14-14.35<br>US340                                                             | 14-14.25<br>AMATEUR<br>AMATEUR-SATELLITE<br>US340<br>14.25-14.35<br>AMATEUR<br>US340 |
| 14.35-14.99<br>FIXED<br>Mobile except aeronautical mobile (R)                                                                                | 14.35-14.99<br>FIXED<br>Mobile except aeronautical mobile (R)<br>US340        | 14.35-14.99<br>FIXED<br>US340                                                        |
| 14.99-15.005<br>STANDARD FREQUENCY AND TIME SIGNAL (15 MHz)<br>5.111<br>15.005-15.01<br>STANDARD FREQUENCY AND TIME SIGNAL<br>Space research | 14.99-15.01<br>STANDARD FREQUENCY AND TIME SIGNAL (15 MHz)<br>5.111 US1 US340 |                                                                                      |

| Table of Frequency Allocations                             |                |                | 15.01-22.855 MHz (HF)                                       |                                               |                                           |
|------------------------------------------------------------|----------------|----------------|-------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|
| International Table                                        |                |                | United States Table                                         |                                               | FCC Rule Part(s)                          |
| Region 1 Table                                             | Region 2 Table | Region 3 Table | Federal Table                                               | Non-Federal Table                             |                                           |
| 15.01-15.1<br>AERONAUTICAL MOBILE (OR)                     |                |                | 15.01-15.1<br>AERONAUTICAL MOBILE (OR)                      |                                               |                                           |
|                                                            |                |                | US340                                                       |                                               |                                           |
| 15.1-15.6<br>BROADCASTING                                  |                |                | 15.1-15.8<br>BROADCASTING 5.134                             |                                               | International Broadcast<br>Stations (73F) |
| 15.6-15.8<br>BROADCASTING 5.134                            |                |                |                                                             |                                               |                                           |
| 5.146                                                      |                |                | US136 US340                                                 |                                               |                                           |
| 15.8-16.36<br>FIXED                                        |                |                | 15.8-16.36<br>FIXED                                         |                                               | Private Land Mobile (90)                  |
| 5.153                                                      |                |                | US340                                                       |                                               |                                           |
| 16.36-17.41<br>MARITIME MOBILE 5.109 5.110 5.132 5.145     |                |                | 16.36-17.41<br>MARITIME MOBILE 5.109 5.110 5.132 5.145 US82 |                                               | Maritime (80)                             |
|                                                            |                |                | US296 US340                                                 |                                               |                                           |
| 17.41-17.48<br>FIXED                                       |                |                | 17.41-17.48<br>FIXED                                        |                                               | Private Land Mobile (90)                  |
|                                                            |                |                | US340                                                       |                                               |                                           |
| 17.48-17.55<br>BROADCASTING 5.134                          |                |                | 17.48-17.9<br>BROADCASTING 5.134                            |                                               | International Broadcast<br>Stations (73F) |
| 5.146                                                      |                |                |                                                             |                                               |                                           |
| 17.55-17.9<br>BROADCASTING                                 |                |                | US136 US340                                                 |                                               |                                           |
| 17.9-17.97<br>AERONAUTICAL MOBILE (R)                      |                |                | 17.9-17.97<br>AERONAUTICAL MOBILE (R)                       |                                               | Aviation (87)                             |
|                                                            |                |                | US283 US340                                                 |                                               |                                           |
| 17.97-18.03<br>AERONAUTICAL MOBILE (OR)                    |                |                | 17.97-18.03<br>AERONAUTICAL MOBILE (OR)                     |                                               |                                           |
|                                                            |                |                | US340                                                       |                                               |                                           |
| 18.030-18.052<br>FIXED                                     |                |                | 18.03-18.068<br>FIXED                                       |                                               | Maritime (80)<br>Private Land Mobile (90) |
| 18.052-18.068<br>FIXED                                     |                |                |                                                             |                                               |                                           |
| Space research                                             |                |                | US340                                                       |                                               |                                           |
| 18.068-18.168<br>AMATEUR<br>AMATEUR-SATELLITE              |                |                | 18.068-18.168                                               | 18.068-18.168<br>AMATEUR<br>AMATEUR-SATELLITE | Amateur Radio (97)                        |
| 5.154                                                      |                |                | US340                                                       | US340                                         |                                           |
| 18.168-18.78<br>FIXED<br>Mobile except aeronautical mobile |                |                | 18.168-18.78<br>FIXED<br>Mobile                             |                                               | Maritime (80)<br>Private Land Mobile (90) |
|                                                            |                |                | US340                                                       |                                               |                                           |

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|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|
| 18.78-18.9<br>MARITIME MOBILE                                                 | 18.78-18.9<br>MARITIME MOBILE US82<br>US296 US340                                 | Maritime (80)                                     |
| 18.9-19.02<br>BROADCASTING 5.134<br>5.146                                     | 18.9-19.02<br>BROADCASTING 5.134<br>US136 US340                                   | International Broadcast<br>Stations (73F)         |
| 19.02-19.68<br>FIXED                                                          | 19.02-19.68<br>FIXED<br>US340                                                     | Private Land Mobile (90)                          |
| 19.68-19.8<br>MARITIME MOBILE 5.132                                           | 19.68-19.8<br>MARITIME MOBILE 5.132<br>US340                                      | Maritime (80)                                     |
| 19.8-19.99<br>FIXED                                                           | 19.8-19.99<br>FIXED<br>US340                                                      | Private Land Mobile (90)                          |
| 19.99-19.995<br>STANDARD FREQUENCY AND TIME SIGNAL<br>Space research<br>5.111 | 19.99-20.01<br>STANDARD FREQUENCY AND TIME SIGNAL (20 MHz)<br><br>5.111 US1 US340 |                                                   |
| 19.995-20.01<br>STANDARD FREQUENCY AND TIME SIGNAL (20 MHz)<br>5.111          |                                                                                   |                                                   |
| 20.01-21<br>FIXED<br>Mobile                                                   | 20.01-21<br>FIXED<br>Mobile<br>US340                                              | 20.01-21<br>FIXED<br><br>US340                    |
| 21-21.45<br>AMATEUR<br>AMATEUR-SATELLITE                                      | 21-21.45<br><br>US340                                                             | 21-21.45<br>AMATEUR<br>AMATEUR-SATELLITE<br>US340 |
| 21.45-21.85<br>BROADCASTING                                                   | 21.45-21.85<br>BROADCASTING<br>US340                                              | International Broadcast<br>Stations (73F)         |
| 21.85-21.87<br>FIXED 5.155A<br>5.155                                          | 21.85-21.924<br>FIXED<br><br>US340                                                | Aviation (87)<br>Private Land Mobile (90)         |
| 21.87-21.924<br>FIXED 5.155B                                                  |                                                                                   |                                                   |
| 21.924-22<br>AERONAUTICAL MOBILE (R)                                          | 21.924-22<br>AERONAUTICAL MOBILE (R)<br>US340                                     | Aviation (87)                                     |
| 22-22.855<br>MARITIME MOBILE 5.132<br>5.156                                   | 22-22.855<br>MARITIME MOBILE 5.132 US82<br>US296 US340                            | Maritime (80)                                     |

| Table of Frequency Allocations                                       |                |                | 22.855-29.7 MHz (HF)                                       |                                             |                                           |
|----------------------------------------------------------------------|----------------|----------------|------------------------------------------------------------|---------------------------------------------|-------------------------------------------|
| International Table                                                  |                |                | United States Table                                        |                                             | FCC Rule Part(s)                          |
| Region 1 Table                                                       | Region 2 Table | Region 3 Table | Federal Table                                              | Non-Federal Table                           |                                           |
| 22.855-23<br>FIXED                                                   |                |                | 22.855-23<br>FIXED                                         |                                             | Private Land Mobile (90)                  |
| 5.156                                                                |                |                | US340                                                      |                                             |                                           |
| 23-23.2<br>FIXED<br>Mobile except aeronautical mobile (R)            |                |                | 23-23.2<br>FIXED<br>Mobile except aeronautical mobile (R)  | 23-23.2<br>FIXED                            |                                           |
| 5.156                                                                |                |                | US340                                                      | US340                                       |                                           |
| 23.2-23.35<br>FIXED 5.156A<br>AERONAUTICAL MOBILE (OR)               |                |                | 23.2-23.35<br>AERONAUTICAL MOBILE (OR)                     |                                             |                                           |
|                                                                      |                |                | US340                                                      |                                             |                                           |
| 23.35-24<br>FIXED<br>MOBILE except aeronautical mobile 5.157         |                |                | 23.35-24.89<br>FIXED<br>MOBILE except aeronautical mobile  | 23.35-24.89<br>FIXED                        | Private Land Mobile (90)                  |
| 24-24.89<br>FIXED<br>LAND MOBILE                                     |                |                | US340                                                      | US340                                       |                                           |
| 24.89-24.99<br>AMATEUR<br>AMATEUR-SATELLITE                          |                |                | 24.89-24.99                                                | 24.89-24.99<br>AMATEUR<br>AMATEUR-SATELLITE | Amateur Radio (97)                        |
|                                                                      |                |                | US340                                                      | US340                                       |                                           |
| 24.99-25.005<br>STANDARD FREQUENCY AND TIME SIGNAL (25 MHz)          |                |                | 24.99-25.01<br>STANDARD FREQUENCY AND TIME SIGNAL (25 MHz) |                                             |                                           |
| 25.005-25.01<br>STANDARD FREQUENCY AND TIME SIGNAL<br>Space research |                |                | US1 US340                                                  |                                             |                                           |
| 25.01-25.07<br>FIXED<br>MOBILE except aeronautical mobile            |                |                | 25.01-25.07                                                | 25.01-25.07<br>LAND MOBILE                  | Private Land Mobile (90)                  |
|                                                                      |                |                | US340                                                      | US340 NG112                                 |                                           |
| 25.07-25.21<br>MARITIME MOBILE                                       |                |                | 25.07-25.21<br>MARITIME MOBILE US82                        | 25.07-25.21<br>MARITIME MOBILE US82         | Maritime (80)<br>Private Land Mobile (90) |
|                                                                      |                |                | US281 US296 US340                                          | US281 US296 US340 NG112                     |                                           |
| 25.21-25.55<br>FIXED<br>MOBILE except aeronautical mobile            |                |                | 25.21-25.33                                                | 25.21-25.33<br>LAND MOBILE                  | Private Land Mobile (90)                  |
|                                                                      |                |                | US340                                                      | US340                                       |                                           |
|                                                                      |                |                | 25.33-25.55<br>FIXED<br>MOBILE except aeronautical mobile  | 25.33-25.55                                 |                                           |
|                                                                      |                |                | US340                                                      | US340                                       |                                           |

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|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------|
| 25.55-25.67<br>RADIO ASTRONOMY                             | 25.55-25.67<br>RADIO ASTRONOMY US74                       |                                                           |                                           |
| 5.149                                                      | US342                                                     |                                                           |                                           |
| 25.67-26.1<br>BROADCASTING                                 | 25.67-26.1<br>BROADCASTING                                |                                                           | International Broadcast<br>Stations (73F) |
|                                                            | US25 US340                                                |                                                           | Remote Pickup (74D)                       |
| 26.1-26.175<br>MARITIME MOBILE 5.132                       | 26.1-26.175<br>MARITIME MOBILE 5.132                      |                                                           | Remote Pickup (74D)                       |
|                                                            | US25 US340                                                |                                                           | Low Power Auxiliary (74H)                 |
| 26.175-27.5<br>FIXED<br>MOBILE except aeronautical mobile  | 26.175-26.48                                              | 26.175-26.48<br>LAND MOBILE                               | Remote Pickup (74D)                       |
|                                                            | US340                                                     | US340                                                     | Low Power Auxiliary (74H)                 |
|                                                            | 26.48-26.95<br>FIXED<br>MOBILE except aeronautical mobile | 26.48-26.95                                               |                                           |
|                                                            | US340                                                     | US340                                                     |                                           |
|                                                            | 26.95-27.41                                               | 26.95-26.96<br>FIXED                                      | ISM Equipment (18)                        |
|                                                            |                                                           | 5.150 US340                                               |                                           |
|                                                            |                                                           | 26.96-27.23<br>MOBILE except aeronautical mobile          | ISM Equipment (18)                        |
|                                                            |                                                           | 5.150 US340                                               | Personal Radio (95)                       |
|                                                            |                                                           | 27.23-27.41<br>FIXED<br>MOBILE except aeronautical mobile | ISM Equipment (18)                        |
|                                                            |                                                           | 5.150 US340                                               | Private Land Mobile (90)                  |
|                                                            |                                                           | 5.150 US340                                               | Personal Radio (95)                       |
| 5.150<br>27.5-28<br>METEOROLOGICAL AIDS<br>FIXED<br>MOBILE | 27.41-27.54                                               | 27.41-27.54<br>FIXED<br>LAND MOBILE                       | Private Land Mobile (90)                  |
|                                                            | US340                                                     | US340                                                     |                                           |
|                                                            | 27.54-28<br>FIXED<br>MOBILE                               | 27.54-28                                                  |                                           |
|                                                            | US298 US340                                               | US298 US340                                               |                                           |
| 28-29.7<br>AMATEUR<br>AMATEUR-SATELLITE                    | 28-29.7                                                   | 28-29.7<br>AMATEUR<br>AMATEUR-SATELLITE                   | Amateur Radio (97)                        |
|                                                            | US340                                                     | US340                                                     |                                           |

| Table of Frequency Allocations                                                                  |                             |                | 29.7-47 MHz (HF/VHF)           |                                  |                               |
|-------------------------------------------------------------------------------------------------|-----------------------------|----------------|--------------------------------|----------------------------------|-------------------------------|
| International Table                                                                             |                             |                | United States Table            |                                  | FCC Rule Part(s)              |
| Region 1 Table                                                                                  | Region 2 Table              | Region 3 Table | Federal Table                  | Non-Federal Table                |                               |
| 29.7-30.005<br>FIXED<br>MOBILE                                                                  |                             |                | 29.7-29.89                     | 29.7-29.8<br>LAND MOBILE         | Private Land Mobile (90)      |
|                                                                                                 |                             |                |                                | US340                            |                               |
|                                                                                                 |                             |                | US340                          | 29.8-29.89<br>FIXED              |                               |
|                                                                                                 |                             |                |                                | US340                            | US340                         |
|                                                                                                 |                             |                | 29.89-29.91<br>FIXED<br>MOBILE | 29.89-29.91                      |                               |
|                                                                                                 |                             |                |                                | US340                            | US340                         |
| 29.91-30                                                                                        | 29.91-30<br>FIXED           |                |                                |                                  |                               |
|                                                                                                 | US340                       | US340          |                                |                                  |                               |
|                                                                                                 | 30-30.56<br>FIXED<br>MOBILE | 30-30.56       |                                |                                  |                               |
| 30.005-30.01<br>SPACE OPERATION (satellite identification)<br>FIXED<br>MOBILE<br>SPACE RESEARCH |                             |                | 30.56-32                       | 30.56-32<br>FIXED<br>LAND MOBILE | Private Land Mobile (90)      |
|                                                                                                 |                             |                |                                | NG124                            |                               |
| 30.01-37.5<br>FIXED<br>MOBILE                                                                   |                             |                | 32-33<br>FIXED<br>MOBILE       | 32-33                            |                               |
|                                                                                                 |                             |                |                                | 33-34                            | 33-34<br>FIXED<br>LAND MOBILE |
|                                                                                                 |                             |                | 33-34                          | NG124                            |                               |
|                                                                                                 |                             |                | 34-35<br>FIXED<br>MOBILE       | 34-35                            |                               |
|                                                                                                 |                             |                |                                | 35-36                            | 35-36<br>FIXED<br>LAND MOBILE |

|                                                   |                                                                  |                                                                      |                                                |
|---------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------|
|                                                   | 36-37<br>FIXED<br>MOBILE                                         | 36-37                                                                |                                                |
|                                                   | US220                                                            | US220                                                                |                                                |
|                                                   | 37-37.5                                                          | 37-37.5<br>LAND MOBILE<br>NG124                                      | Private Land Mobile (90)                       |
| 37.5-38.25<br>FIXED<br>MOBILE<br>Radio astronomy  | 37.5-38<br>Radio astronomy<br><br>US342                          | 37.5-38<br>LAND MOBILE<br>Radio astronomy<br><br>US342 NG59 NG124    |                                                |
|                                                   | 38-38.25<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br><br>US81 US342 | 38-38.25<br>RADIO ASTRONOMY<br><br>US81 US342                        |                                                |
| 5.149<br>38.25-39.986<br>FIXED<br>MOBILE          | 38.25-39<br>FIXED<br>MOBILE                                      | 38.25-39                                                             |                                                |
|                                                   | 39-40                                                            | 39-40<br>LAND MOBILE<br>NG124                                        | Private Land Mobile (90)                       |
| 39.986-40.02<br>FIXED<br>MOBILE<br>Space research | 40-42<br>FIXED<br>MOBILE                                         | 40-42                                                                | ISM Equipment (18)<br>Private Land Mobile (90) |
| 40.02-40.98<br>FIXED<br>MOBILE                    |                                                                  |                                                                      |                                                |
| 5.150                                             |                                                                  |                                                                      |                                                |
| 40.98-41.015<br>FIXED<br>MOBILE<br>Space research |                                                                  |                                                                      |                                                |
| 5.160 5.161<br>41.015-44<br>FIXED<br>MOBILE       | 5.150 US210 US220<br>42-46.6                                     | 5.150 US210 US220<br>42-43.69<br>FIXED<br>LAND MOBILE<br>NG124 NG141 | Public Mobile (22)<br>Private Land Mobile (90) |
| 5.160 5.161<br>44-47<br>FIXED<br>MOBILE           |                                                                  | 43.69-46.6<br>LAND MOBILE<br>NG124 NG141                             | Private Land Mobile (90)                       |
| 5.162 5.162A                                      | 46.6-47<br>FIXED<br>MOBILE                                       | 46.6-47                                                              |                                                |

Table of Frequency Allocations

47-137 MHz (VHF)

| International Table                                                                                 |                                                               |                                                                 | United States Table                                    |                                                               | FCC Rule Part(s)                                                                               |                          |                                                                                        |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------|
| Region 1 Table                                                                                      | Region 2 Table                                                | Region 3 Table                                                  | Federal Table                                          | Non-Federal Table                                             |                                                                                                |                          |                                                                                        |
| 47-68<br>BROADCASTING                                                                               | 47-50<br>FIXED<br>MOBILE                                      | 47-50<br>FIXED<br>MOBILE<br>BROADCASTING<br><br>5.162A          | 47-49.6                                                | 47-49.6<br>LAND MOBILE<br><br>NG124                           | Private Land Mobile (90)                                                                       |                          |                                                                                        |
|                                                                                                     |                                                               |                                                                 | 49.6-50<br>FIXED<br>MOBILE                             | 49.6-50                                                       |                                                                                                |                          |                                                                                        |
|                                                                                                     | 50-54<br>AMATEUR<br><br>5.162A 5.166 5.167 5.167A 5.168 5.170 |                                                                 | 50-73                                                  | 50-54<br>AMATEUR                                              | Amateur Radio (97)                                                                             |                          |                                                                                        |
|                                                                                                     | 54-68<br>BROADCASTING<br>Fixed<br>Mobile<br><br>5.172         | 54-68<br>FIXED<br>MOBILE<br>BROADCASTING<br><br>5.162A          |                                                        | 54-72<br>BROADCASTING<br><br><br><br><br>NG5 NG14 NG115 NG149 | Broadcast Radio (TV)(73)<br>LPTV, TV Translator/<br>Booster (74G)<br>Low Power Auxiliary (74H) |                          |                                                                                        |
| 68-74.8<br>FIXED<br>MOBILE except aeronautical<br>mobile<br><br><br><br><br>5.149 5.175 5.177 5.179 | 68-72<br>BROADCASTING<br>Fixed<br>Mobile<br><br>5.173         | 68-74.8<br>FIXED<br>MOBILE<br><br><br><br><br>5.149 5.176 5.179 |                                                        |                                                               |                                                                                                | 72-73<br>FIXED<br>MOBILE | Public Mobile (22)<br>Aviation (87)<br>Private Land Mobile (90)<br>Personal Radio (95) |
|                                                                                                     | 72-73<br>FIXED<br>MOBILE                                      |                                                                 |                                                        |                                                               |                                                                                                | NG3 NG49 NG56            |                                                                                        |
|                                                                                                     | 73-74.6<br>RADIO ASTRONOMY<br><br>5.178                       |                                                                 | 73-74.6<br>RADIO ASTRONOMY US74                        |                                                               |                                                                                                |                          |                                                                                        |
| 74.6-74.8<br>FIXED<br>MOBILE                                                                        | US246<br>74.6-74.8<br>FIXED<br>MOBILE                         |                                                                 | Private Land Mobile (90)                               |                                                               |                                                                                                |                          |                                                                                        |
|                                                                                                     |                                                               |                                                                 | US273                                                  |                                                               |                                                                                                |                          |                                                                                        |
| 74.8-75.2<br>AERONAUTICAL RADIONAVIGATION<br><br>5.180 5.181                                        |                                                               |                                                                 | 74.8-75.2<br>AERONAUTICAL RADIONAVIGATION<br><br>5.180 |                                                               | Aviation (87)                                                                                  |                          |                                                                                        |
| 75.2-87.5<br>FIXED<br>MOBILE except aeronautical<br>mobile                                          | 75.2-75.4<br>FIXED<br>MOBILE<br><br>5.179                     |                                                                 | 75.2-75.4<br>FIXED<br>MOBILE<br><br>US273              |                                                               | Private Land Mobile (90)                                                                       |                          |                                                                                        |

|                                                                                                                                                                                                                       |                                          |                                           |                                              |                                              |                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------|
| 5.175 5.179 5.187<br>87.5-100<br>BROADCASTING<br><br>5.190<br>100-108<br>BROADCASTING<br><br>5.192 5.194<br>108-117.975<br>AERONAUTICAL RADIONAVIGATION<br><br>5.197 5.197A<br>117.975-137<br>AERONAUTICAL MOBILE (R) | 75.4-76<br>FIXED<br>MOBILE               | 75.4-87<br>FIXED<br>MOBILE                | 75.4-88                                      | 75.4-76<br>FIXED<br>MOBILE                   | Public Mobile (22)<br>Aviation (87)<br>Private Land Mobile (90)<br>Personal Radio (95)         |
|                                                                                                                                                                                                                       | 76-88<br>BROADCASTING<br>Fixed<br>Mobile | 5.182 5.183 5.188                         |                                              | 76-88<br>BROADCASTING                        | Broadcast Radio (TV)(73)<br>LPTV, TV Translator/<br>Booster (74G)<br>Low Power Auxiliary (74H) |
|                                                                                                                                                                                                                       | 5.185                                    | 87-100<br>FIXED<br>MOBILE<br>BROADCASTING | 88-108                                       | 88-108<br>BROADCASTING NG2                   | Broadcast Radio (FM)(73)<br>FM Translator/Booster (74L)                                        |
|                                                                                                                                                                                                                       | 88-100<br>BROADCASTING                   |                                           |                                              |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | US93                                         | US93 NG5                                     |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 108-117.975<br>AERONAUTICAL RADIONAVIGATION  |                                              | Aviation (87)                                                                                  |
|                                                                                                                                                                                                                       |                                          |                                           | US93 US343                                   |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 117.975-121.9375<br>AERONAUTICAL MOBILE (R)  |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 5.111 5.200 US26 US28 US36                   |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 121.9375-123.0875                            | 121.9375-123.0875<br>AERONAUTICAL MOBILE     |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | US30 US31 US33 US80 US102<br>US213           | US30 US31 US33 US80 US102<br>US213           |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 123.0875-123.5875<br>AERONAUTICAL MOBILE     |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 5.200 US32 US33 US112                        |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 123.5875-128.8125<br>AERONAUTICAL MOBILE (R) |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | US26 US36                                    |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 128.8125-132.0125                            | 128.8125-132.0125<br>AERONAUTICAL MOBILE (R) |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 132.0125-136<br>AERONAUTICAL MOBILE (R)      |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | US26                                         |                                              |                                                                                                |
|                                                                                                                                                                                                                       |                                          |                                           | 136-137                                      | 136-137<br>AERONAUTICAL MOBILE (R)           |                                                                                                |
| 5.111 5.200 5.201 5.202                                                                                                                                                                                               |                                          |                                           | US244                                        | US244                                        |                                                                                                |

| Table of Frequency Allocations                                                                                                                                                                                                                                                  |                                                                                     |                                                                                   | 137-156.7625 MHz (VHF)                                                                                                                                                                            |                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| International Table                                                                                                                                                                                                                                                             |                                                                                     |                                                                                   | United States Table                                                                                                                                                                               |                   | FCC Rule Part(s)              |
| Region 1 Table                                                                                                                                                                                                                                                                  | Region 2 Table                                                                      | Region 3 Table                                                                    | Federal Table                                                                                                                                                                                     | Non-Federal Table |                               |
| 137-137.025<br>SPACE OPERATION (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209<br>SPACE RESEARCH (space-to-Earth)<br>Fixed<br>Mobile except aeronautical mobile (R)<br>5.204 5.205 5.206 5.207 5.208     |                                                                                     |                                                                                   | 137-137.025<br>SPACE OPERATION (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth) US319 US320<br>SPACE RESEARCH (space-to-Earth)<br><br>5.208     |                   | Satellite Communications (25) |
| 137.025-137.175<br>SPACE OPERATION (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>SPACE RESEARCH (space-to-Earth)<br>Fixed<br>Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.209<br>Mobile except aeronautical mobile (R)<br>5.204 5.205 5.206 5.207 5.208 |                                                                                     |                                                                                   | 137.025-137.175<br>SPACE OPERATION (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>SPACE RESEARCH (space-to-Earth)<br>Mobile-satellite (space-to-Earth) US319 US320<br><br>5.208 |                   |                               |
| 137.175-137.825<br>SPACE OPERATION (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209<br>SPACE RESEARCH (space-to-Earth)<br>Fixed<br>Mobile except aeronautical mobile (R)<br>5.204 5.205 5.206 5.207 5.208 |                                                                                     |                                                                                   | 137.175-137.825<br>SPACE OPERATION (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth) US319 US320<br>SPACE RESEARCH (space-to-Earth)<br><br>5.208 |                   |                               |
| 137.825-138<br>SPACE OPERATION (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>SPACE RESEARCH (space-to-Earth)<br>Fixed<br>Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.209<br>Mobile except aeronautical mobile (R)<br>5.204 5.205 5.206 5.207 5.208     |                                                                                     |                                                                                   | 137.825-138<br>SPACE OPERATION (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>SPACE RESEARCH (space-to-Earth)<br>Mobile-satellite (space-to-Earth) US319 US320<br><br>5.208     |                   |                               |
| 138-143.6<br>AERONAUTICAL MOBILE (OR)<br><br>5.210 5.211 5.212 5.214                                                                                                                                                                                                            | 138-143.6<br>FIXED<br>MOBILE<br>RADIOLOCATION<br>Space research (space-to-Earth)    | 138-143.6<br>FIXED<br>MOBILE<br>Space research (space-to-Earth)<br>5.207 5.213    | 138-144<br>FIXED<br>MOBILE<br><br><br><br><br><br><br><br><br><br>G30                                                                                                                             | 138-144           |                               |
| 143.6-143.65<br>AERONAUTICAL MOBILE (OR)<br>SPACE RESEARCH (space-to-Earth)<br><br>5.211 5.212 5.214                                                                                                                                                                            | 143.6-143.65<br>FIXED<br>MOBILE<br>RADIOLOCATION<br>SPACE RESEARCH (space-to-Earth) | 143.6-143.65<br>FIXED<br>MOBILE<br>SPACE RESEARCH (space-to-Earth)<br>5.207 5.213 |                                                                                                                                                                                                   |                   |                               |
| 143.65-144<br>AERONAUTICAL MOBILE (OR)<br><br>5.210 5.211 5.212 5.214                                                                                                                                                                                                           | 143.65-144<br>FIXED<br>MOBILE<br>RADIOLOCATION<br>Space research (space-to-Earth)   | 143.65-144<br>FIXED<br>MOBILE<br>Space research (space-to-Earth)<br>5.207 5.213   |                                                                                                                                                                                                   |                   |                               |
|                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                   |                                                                                                                                                                                                   |                   |                               |

|                                                                                                                         |                                                                         |                                                |                                                                                                     |                                                                        |                                                                       |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 144-146<br>AMATEUR<br>AMATEUR-SATELLITE<br>5.216                                                                        |                                                                         |                                                | 144-148                                                                                             | 144-146<br>AMATEUR<br>AMATEUR-SATELLITE                                | Amateur Radio (97)                                                    |
| 146-148<br>FIXED<br>MOBILE except aeronautical mobile (R)                                                               | 146-148<br>AMATEUR<br>5.217                                             | 146-148<br>AMATEUR<br>FIXED<br>MOBILE<br>5.217 |                                                                                                     | 146-148<br>AMATEUR                                                     |                                                                       |
| 148-149.9<br>FIXED<br>MOBILE except aeronautical mobile (R)<br>MOBILE-SATELLITE (Earth-to-space) 5.209                  | 148-149.9<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space) 5.209 |                                                | 148-149.9<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE<br>(Earth-to-space) US319<br>US320 US323 US325     | 148-149.9<br>MOBILE-SATELLITE<br>(Earth-to-space) US320<br>US323 US325 | Satellite Communications (25)                                         |
| 5.218 5.219 5.221                                                                                                       | 5.218 5.219 5.221                                                       |                                                | 5.218 5.219 G30                                                                                     | 5.218 5.219 US319                                                      |                                                                       |
| 149.9-150.05<br>MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A<br>RADIONAVIGATION-SATELLITE 5.224B<br>5.220 5.222 5.223 |                                                                         |                                                | 149.9-150.05<br>MOBILE-SATELLITE (Earth-to-space) US319 US320<br>RADIONAVIGATION-SATELLITE<br>5.223 |                                                                        |                                                                       |
| 150.05-153<br>FIXED<br>MOBILE except aeronautical mobile<br>RADIO ASTRONOMY                                             | 150.05-156.4875<br>FIXED<br>MOBILE                                      |                                                | 150.05-150.8<br>FIXED<br>MOBILE<br>US73 G30                                                         | 150.05-150.8<br><br>US73                                               |                                                                       |
| 5.149                                                                                                                   |                                                                         |                                                | 150.8-152.855                                                                                       | 150.8-152.855<br>FIXED<br>LAND MOBILE NG4 NG51<br>NG112<br>US73 NG124  | Public Mobile (22)<br>Private Land Mobile (90)<br>Personal Radio (95) |
| 153-154<br>FIXED<br>MOBILE except aeronautical mobile (R)<br>Meteorological aids                                        |                                                                         |                                                | 152.855-156.2475                                                                                    | 152.855-154<br>LAND MOBILE NG4<br><br>NG124                            | Remote Pickup (74D)<br>Private Land Mobile (90)                       |
| 154-156.4875<br>FIXED<br>MOBILE except aeronautical mobile (R)                                                          |                                                                         |                                                |                                                                                                     | 154-156.2475<br>FIXED<br>LAND MOBILE NG112<br>5.226 NG117 NG124 NG148  | Maritime (80)<br>Private Land Mobile (90)<br>Personal Radio (95)      |
| 5.226                                                                                                                   |                                                                         |                                                |                                                                                                     |                                                                        |                                                                       |
| 156.4875-156.5625<br>MARITIME MOBILE (distress and calling via DSC)<br>5.111 5.226 5.227                                | 156.5625-156.7625<br>FIXED<br>MOBILE                                    |                                                | 156.2475-156.7625                                                                                   | 156.2475-156.7625<br>MARITIME MOBILE US106<br>US226 NG117              | Maritime (80)<br>Aviation (87)                                        |
| 156.5625-156.7625<br>FIXED<br>MOBILE except aeronautical mobile (R)<br>5.226                                            |                                                                         |                                                | US77 US106 US226 US266                                                                              | US77 US266 NG124                                                       |                                                                       |

| Table of Frequency Allocations                                |                                 |                                                                               | 156.7625-267 MHz (VHF)                                                       |                                                                                             |                                |
|---------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------|
| International Table                                           |                                 |                                                                               | United States Table                                                          |                                                                                             | FCC Rule Part(s)               |
| Region 1 Table                                                | Region 2 Table                  | Region 3 Table                                                                | Federal Table                                                                | Non-Federal Table                                                                           |                                |
| 156.7625-156.8375<br>MARITIME MOBILE (distress and calling)   |                                 |                                                                               | 156.7625-156.8375<br>MARITIME MOBILE (distress, urgency, safety and calling) |                                                                                             | Maritime (80)<br>Aviation (87) |
| 5.111 5.226                                                   |                                 |                                                                               | 5.226 US266                                                                  |                                                                                             |                                |
| 156.8375-174<br>FIXED<br>MOBILE except aeronautical<br>mobile | 156.8375-174<br>FIXED<br>MOBILE | 156.8375-157.0375                                                             |                                                                              | 156.8375-157.0375<br>MARITIME MOBILE                                                        |                                |
|                                                               |                                 | 5.226 US77 US266                                                              |                                                                              | 5.226 US77 US266                                                                            |                                |
|                                                               |                                 | 157.0375-157.1875<br>MARITIME MOBILE US214                                    |                                                                              | 157.0375-157.1875                                                                           |                                |
|                                                               |                                 | 5.226 US266 G109                                                              |                                                                              | 5.226 US214 US266                                                                           |                                |
|                                                               |                                 | 157.1875-161.575                                                              |                                                                              | 157.1875-157.45<br>MOBILE except aeronautical mobile US266<br>5.226 NG111                   |                                |
|                                                               |                                 |                                                                               |                                                                              | 157.45-161.575<br>FIXED<br>LAND MOBILE NG28 NG111 NG112<br>5.226 NG6 NG70 NG124 NG148 NG155 |                                |
|                                                               |                                 | 161.575-161.625                                                               |                                                                              | 161.575-161.625<br>MARITIME MOBILE                                                          |                                |
|                                                               |                                 | 5.226 US77                                                                    |                                                                              | 5.226 US77 NG6 NG17                                                                         |                                |
|                                                               |                                 | 161.625-161.9625                                                              |                                                                              | 161.625-161.775<br>LAND MOBILE NG6<br>5.226                                                 |                                |
|                                                               |                                 |                                                                               |                                                                              | 161.775-161.9625<br>MOBILE except aeronautical mobile US266<br>NG6<br>5.226                 |                                |
|                                                               |                                 | US266                                                                         |                                                                              |                                                                                             |                                |
|                                                               |                                 | 161.9625-161.9875<br>MARITIME MOBILE (AIS) US228                              |                                                                              |                                                                                             |                                |
|                                                               |                                 | 161.9875-162.0125                                                             |                                                                              | 161.9875-162.0125<br>MOBILE except aeronautical mobile<br>5.226                             |                                |
|                                                               |                                 | 162.0125-162.0375<br>MARITIME MOBILE (AIS) US228                              |                                                                              |                                                                                             |                                |
|                                                               |                                 | 162.0375-173.2<br>FIXED<br>MOBILE<br><br>US8 US11 US13 US73 US300<br>US312 G5 |                                                                              | 162.0375-173.2<br><br><br>US8 US11 US13 US73 US300 US312                                    |                                |
| 173.2-173.4                                                   |                                 | 173.2-173.4<br>FIXED<br>Land mobile                                           |                                                                              |                                                                                             |                                |
| 173.4-174<br>FIXED<br>MOBILE                                  |                                 | 173.4-174                                                                     |                                                                              |                                                                                             |                                |
| 5.226 5.227A 5.229                                            | 5.226 5.227A 5.230 5.231 5.232  | G5                                                                            |                                                                              |                                                                                             |                                |

|                                            |                                                                       |                                                                                                             |                                                       |                                                                                                                  |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 174-223<br>BROADCASTING                    | 174-216<br>BROADCASTING<br>Fixed<br>Mobile<br><br>5.234               | 174-223<br>FIXED<br>MOBILE<br>BROADCASTING                                                                  | 174-216                                               | 174-216<br>BROADCASTING<br><br>NG5 NG14 NG115 NG149                                                              | Broadcast Radio (TV)(73)<br>LPTV, TV Translator/Booster<br>(74G)<br>Low Power Auxiliary (74H) |
|                                            | 216-220<br>FIXED<br>MARITIME MOBILE<br>Radiolocation 5.241            |                                                                                                             | 216-217<br>Fixed<br>Land mobile<br><br>US210 US241 G2 | 216-219<br>FIXED<br>MOBILE except aeronautical mobile                                                            | Maritime (80)<br>Private Land Mobile (90)<br>Personal Radio (95)                              |
|                                            |                                                                       |                                                                                                             | 217-220<br>Fixed<br>Mobile<br><br>US210 US241         | US210 US241 NG173<br>219-220<br>FIXED<br>MOBILE except aeronautical mobile<br>Amateur NG152<br>US210 US241 NG173 | Maritime (80)<br>Private Land Mobile (90)<br>Amateur Radio (97)                               |
|                                            | 5.242<br>220-225<br>AMATEUR<br>FIXED<br>MOBILE<br>Radiolocation 5.241 |                                                                                                             | 220-222<br>FIXED<br>LAND MOBILE<br><br>US241 US242    |                                                                                                                  | Private Land Mobile (90)                                                                      |
| 5.235 5.237 5.243                          |                                                                       |                                                                                                             | 222-225                                               | 222-225<br>AMATEUR                                                                                               | Amateur Radio (97)                                                                            |
| 223-230<br>BROADCASTING<br>Fixed<br>Mobile |                                                                       | 223-230<br>FIXED<br>MOBILE<br>BROADCASTING<br>AERONAUTICAL<br>RADIONAVIGATION<br>Radiolocation<br><br>5.250 | 225-235<br>FIXED<br>MOBILE                            | 225-235                                                                                                          |                                                                                               |
| 5.243 5.246 5.247                          |                                                                       | 230-235<br>FIXED<br>MOBILE<br>AERONAUTICAL<br>RADIONAVIGATION<br><br>5.250                                  |                                                       |                                                                                                                  |                                                                                               |
| 230-235<br>FIXED<br>MOBILE                 |                                                                       |                                                                                                             | G27                                                   |                                                                                                                  |                                                                                               |
| 5.247 5.251 5.252                          |                                                                       |                                                                                                             | 235-267<br>FIXED<br>MOBILE                            | 235-267                                                                                                          |                                                                                               |
| 235-267<br>FIXED<br>MOBILE                 |                                                                       |                                                                                                             | 5.111 5.256 G27 G100                                  | 5.111 5.256                                                                                                      |                                                                                               |
| 5.111 5.252 5.254 5.256 5.256A             |                                                                       |                                                                                                             |                                                       |                                                                                                                  |                                                                                               |

| Table of Frequency Allocations                                                            |                |                | 267-410 MHz (VHF/UHF)                             |                   |                  |
|-------------------------------------------------------------------------------------------|----------------|----------------|---------------------------------------------------|-------------------|------------------|
| International Table                                                                       |                |                | United States Table                               |                   | FCC Rule Part(s) |
| Region 1 Table                                                                            | Region 2 Table | Region 3 Table | Federal Table                                     | Non-Federal Table |                  |
| 267-272<br>FIXED<br>MOBILE<br>Space operation (space-to-Earth)                            |                |                | 267-322<br>FIXED<br>MOBILE                        | 267-322           |                  |
| 5.254 5.257                                                                               |                |                |                                                   |                   |                  |
| 272-273<br>SPACE OPERATION (space-to-Earth)<br>FIXED<br>MOBILE                            |                |                |                                                   |                   |                  |
| 5.254                                                                                     |                |                |                                                   |                   |                  |
| 273-312<br>FIXED<br>MOBILE                                                                |                |                |                                                   |                   |                  |
| 5.254                                                                                     |                |                | G27 G100                                          | 322-328.6         |                  |
| 312-315<br>FIXED<br>MOBILE<br>Mobile-satellite (Earth-to-space) 5.254 5.255               |                |                |                                                   |                   |                  |
| 315-322<br>FIXED<br>MOBILE                                                                |                |                |                                                   |                   |                  |
| 5.254                                                                                     |                |                |                                                   |                   |                  |
| 322-328.6<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY                                           |                |                |                                                   |                   |                  |
| 5.149                                                                                     |                |                | US342 G27                                         | US342             |                  |
| 328.6-335.4<br>AERONAUTICAL RADIONAVIGATION 5.258                                         |                |                | 328.6-335.4<br>AERONAUTICAL RADIONAVIGATION 5.258 |                   | Aviation (87)    |
| 5.259                                                                                     |                |                |                                                   |                   |                  |
| 335.4-387<br>FIXED<br>MOBILE                                                              |                |                | 335.4-399.9<br>FIXED<br>MOBILE                    | 335.4-399.9       |                  |
| 5.254                                                                                     |                |                |                                                   |                   |                  |
| 387-390<br>FIXED<br>MOBILE<br>Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.254 5.255 |                |                |                                                   |                   |                  |
| 390-399.9<br>FIXED<br>MOBILE                                                              |                |                |                                                   |                   |                  |
| 5.254                                                                                     |                |                |                                                   |                   |                  |
|                                                                                           |                |                | G27 G100                                          |                   |                  |

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| 399.9-400.05<br>MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A<br>RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260<br>5.220                                                                                                                 | 399.9-400.05<br>MOBILE-SATELLITE (Earth-to-space) US319 US320<br>RADIONAVIGATION-SATELLITE 5.260                                                                                                                                              | Satellite Communications (25)                                                                                                                                                                    |
| 400.05-400.15<br>STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)<br>5.261 5.262                                                                                                                                                | 400.05-400.15<br>STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)<br>5.261                                                                                                                                                            |                                                                                                                                                                                                  |
| 400.15-401<br>METEOROLOGICAL AIDS<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209<br>SPACE RESEARCH (space-to-Earth) 5.263<br>Space operation (space-to-Earth)<br><br>5.262 5.264 | 400.15-401<br>METEOROLOGICAL AIDS (radiosonde) US70<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth) US319 US320 US324<br>SPACE RESEARCH (space-to-Earth) 5.263<br>Space operation (space-to-Earth)<br>5.264 | 400.15-401<br>METEOROLOGICAL AIDS (radiosonde) US70<br>MOBILE-SATELLITE (space-to-Earth) US320 US324<br>SPACE RESEARCH (space-to-Earth) 5.263<br>Space operation (space-to-Earth)<br>5.264 US319 |
| 401-402<br>METEOROLOGICAL AIDS<br>SPACE OPERATION (space-to-Earth)<br>EARTH EXPLORATION-SATELLITE (Earth-to-space)<br>METEOROLOGICAL-SATELLITE (Earth-to-space)<br>Fixed<br>Mobile except aeronautical mobile                           | 401-402<br>METEOROLOGICAL AIDS (radiosonde) US70<br>SPACE OPERATION (space-to-Earth)<br>EARTH EXPLORATION-SATELLITE (Earth-to-space)<br>METEOROLOGICAL-SATELLITE (Earth-to-space)<br>US64 US384                                               | 401-402<br>METEOROLOGICAL AIDS (radiosonde) US70<br>SPACE OPERATION (space-to-Earth)<br>Earth exploration-satellite (Earth-to-space)<br>Meteorological-satellite (Earth-to-space)<br>US64 US384  |
| 402-403<br>METEOROLOGICAL AIDS<br>EARTH EXPLORATION-SATELLITE (Earth-to-space)<br>METEOROLOGICAL-SATELLITE (Earth-to-space)<br>Fixed<br>Mobile except aeronautical mobile                                                               | 402-403<br>METEOROLOGICAL AIDS (radiosonde) US70<br>EARTH EXPLORATION-SATELLITE (Earth-to-space)<br>METEOROLOGICAL-SATELLITE (Earth-to-space)<br>US64 US384                                                                                   | 402-403<br>METEOROLOGICAL AIDS (radiosonde) US70<br>Earth exploration-satellite (Earth-to-space)<br>Meteorological-satellite (Earth-to-space)<br>US64 US384                                      |
| 403-406<br>METEOROLOGICAL AIDS<br>Fixed<br>Mobile except aeronautical mobile                                                                                                                                                            | 403-406<br>METEOROLOGICAL AIDS (radiosonde) US70<br>US64 G6                                                                                                                                                                                   | 403-406<br>METEOROLOGICAL AIDS (radiosonde) US70<br>US64                                                                                                                                         |
| 406-406.1<br>MOBILE-SATELLITE (Earth-to-space)<br>5.266 5.267                                                                                                                                                                           | 406-406.1<br>MOBILE-SATELLITE (Earth-to-space)<br>5.266 5.267                                                                                                                                                                                 | Maritime (EPIRBs) (80V)<br>Aviation (ELTs) (87F)<br>Personal Radio (95)                                                                                                                          |
| 406.1-410<br>FIXED<br>MOBILE except aeronautical mobile<br>RADIO ASTRONOMY<br>5.149                                                                                                                                                     | 406.1-410<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY US74<br>US13 US117 G5 G6                                                                                                                                                                      | 406.1-410<br>RADIO ASTRONOMY US74<br>US13 US117                                                                                                                                                  |
|                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                               | Private Land Mobile (90)                                                                                                                                                                         |

| Table of Frequency Allocations                                                                 |                |                | 410-698 MHz (UHF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| International Table                                                                            |                |                | United States Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Region 1 Table                                                                                 | Region 2 Table | Region 3 Table | Federal Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 410-420<br>FIXED<br>MOBILE except aeronautical mobile<br>SPACE RESEARCH (space-to-space) 5.268 |                |                | 410-420<br>FIXED<br>MOBILE<br>SPACE RESEARCH<br>(space-to-space) 5.268<br>US13 US64 G5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 420-430<br>FIXED<br>MOBILE except aeronautical mobile<br>Radiolocation<br>5.269 5.270 5.271    |                |                | 420-450<br>RADIOLOCATION G2 G129<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>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|                                                                                                                    |  |  |                                                                                                         |  |  |                                                            |  |  |                                                                                            |  |  |                                                                              |  |  |                                                                                                                                              |  |  |
|--------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 456-459<br>FIXED<br>MOBILE 5.286AA<br><br>5.271 5.287 5.288                                                        |  |  | 456-459                                                                                                 |  |  | 456-460<br>FIXED<br>LAND MOBILE                            |  |  | Public Mobile (22)<br>Maritime (80)<br>Private Land Mobile (90)<br>MedRadio (95l)          |  |  |                                                                              |  |  |                                                                                                                                              |  |  |
| 459-460<br>FIXED<br>MOBILE 5.286AA<br><br>5.209 5.271 5.286A 5.286B<br>5.286C 5.286E                               |  |  | 459-460<br>FIXED<br>MOBILE 5.286AA<br><br>5.209 5.271 5.286A 5.286B<br>5.286C 5.286E                    |  |  | 5.287 US64 US288<br><br>459-460                            |  |  |                                                                                            |  |  | 5.287 US64 US288 NG32 NG112<br>NG124 NG148                                   |  |  |                                                                                                                                              |  |  |
| 460-470<br>FIXED<br>MOBILE 5.286AA<br>Meteorological-satellite (space-to-Earth)                                    |  |  |                                                                                                         |  |  | 460-470<br>Meteorological-satellite<br>(space-to-Earth)    |  |  | 460-462.5375<br>FIXED<br>LAND MOBILE<br>5.289 US201 US209 NG124                            |  |  | Private Land Mobile (90)                                                     |  |  |                                                                                                                                              |  |  |
|                                                                                                                    |  |  |                                                                                                         |  |  |                                                            |  |  | 462.5375-462.7375<br>LAND MOBILE<br>5.289 US201                                            |  |  | Personal Radio (95)                                                          |  |  |                                                                                                                                              |  |  |
|                                                                                                                    |  |  |                                                                                                         |  |  |                                                            |  |  | 462.7375-467.5375<br>FIXED<br>LAND MOBILE<br>5.287 5.289 US73 US201 US209<br>US288 NG124   |  |  | Maritime (80)<br>Private Land Mobile (90)                                    |  |  |                                                                                                                                              |  |  |
|                                                                                                                    |  |  |                                                                                                         |  |  |                                                            |  |  | 467.5375-467.7375<br>LAND MOBILE<br>5.287 5.289 US201 US288                                |  |  | Maritime (80)<br>Personal Radio (95)                                         |  |  |                                                                                                                                              |  |  |
|                                                                                                                    |  |  |                                                                                                         |  |  |                                                            |  |  | 467.7375-470<br>FIXED<br>LAND MOBILE<br>5.289 US73 US201 US288 NG124                       |  |  | Maritime (80)<br>Private Land Mobile (90)                                    |  |  |                                                                                                                                              |  |  |
|                                                                                                                    |  |  |                                                                                                         |  |  |                                                            |  |  | 5.287 5.288 5.289 5.290                                                                    |  |  | 5.287 5.289 US73 US201<br>US209 US288                                        |  |  | 5.289 US73 US201 US288 NG124                                                                                                                 |  |  |
| 470-790<br>BROADCASTING<br><br><br><br><br><br>5.149 5.291A 5.294 5.296<br>5.300 5.302 5.304 5.306<br>5.311A 5.312 |  |  | 470-512<br>BROADCASTING<br>Fixed<br>Mobile<br>5.292 5.293                                               |  |  | 470-585<br>FIXED<br>MOBILE<br>BROADCASTING                 |  |  | 470-608<br><br><br><br><br><br>5.149 5.305 5.306 5.307                                     |  |  | 470-512<br>FIXED<br>LAND MOBILE<br>BROADCASTING<br>NG5 NG14 NG66 NG115 NG149 |  |  | Public Mobile (22)<br>Broadcast Radio (TV)(73)<br>LPTV, TV Translator/Booster (74G)<br>Low Power Auxiliary (74H)<br>Private Land Mobile (90) |  |  |
|                                                                                                                    |  |  | 512-608<br>BROADCASTING<br>5.297                                                                        |  |  | 5.291 5.298<br>585-610<br>FIXED<br>MOBILE                  |  |  |                                                                                            |  |  | 512-608<br>BROADCASTING<br>NG5 NG14 NG115 NG149                              |  |  | Broadcast Radio (TV)(73)<br>LPTV, TV Translator/Booster (74G)<br>Low Power Auxiliary (74H)                                                   |  |  |
|                                                                                                                    |  |  | 608-614<br>RADIO ASTRONOMY<br>Mobile-satellite except aeronautical<br>mobile-satellite (Earth-to-space) |  |  | BROADCASTING<br>RADIONAVIGATION<br>5.149 5.305 5.306 5.307 |  |  | 608-614<br>LAND MOBILE (medical telemetry and medical telecommand)<br>RADIO ASTRONOMY US74 |  |  | US246                                                                        |  |  | Personal Radio (95)                                                                                                                          |  |  |
|                                                                                                                    |  |  | 614-698<br>BROADCASTING<br>Fixed<br>Mobile<br>5.293 5.309 5.311A                                        |  |  | 610-890<br>FIXED<br>MOBILE 5.313A 5.317A<br>BROADCASTING   |  |  | 614-698                                                                                    |  |  | 614-698<br>BROADCASTING<br><br>NG5 NG14 NG115 NG149                          |  |  | Broadcast Radio (TV)(73)<br>LPTV, TV Translator/Booster (74G)<br>Low Power Auxiliary (74H)                                                   |  |  |
|                                                                                                                    |  |  | 5.149 5.305 5.306 5.307<br>5.311A 5.320                                                                 |  |  |                                                            |  |  |                                                                                            |  |  |                                                                              |  |  |                                                                                                                                              |  |  |

| Table of Frequency Allocations                                                         |                                                          |                     | 698-941 MHz (UHF)   |                                                                   |                                                                          |
|----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------|---------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------|
| International Table                                                                    |                                                          |                     | United States Table |                                                                   | FCC Rule Part(s)                                                         |
| Region 1 Table                                                                         | Region 2 Table                                           | Region 3 Table      | Federal Table       | Non-Federal Table                                                 |                                                                          |
| (See previous page)                                                                    | 698-806<br>FIXED<br>MOBILE 5.313B 5.317A<br>BROADCASTING | (See previous page) | 698-763             | 698-763<br>FIXED<br>MOBILE<br>BROADCASTING<br><br>NG159           | Wireless Communications (27)<br>LPTV and TV Translator (74G)             |
|                                                                                        |                                                          |                     | 763-775             | 763-775<br>FIXED<br>MOBILE<br><br>NG158 NG159                     | Public Safety Land Mobile (90R)                                          |
|                                                                                        |                                                          |                     | 775-793             | 775-793<br>FIXED<br>MOBILE<br>BROADCASTING<br><br>NG159           | Wireless Communications (27)<br>LPTV and TV Translator (74G)             |
| 790-862<br>FIXED<br>MOBILE except aeronautical<br>mobile 5.316B 5.317A<br>BROADCASTING |                                                          |                     | 793-805             | 793-805<br>FIXED<br>MOBILE<br><br>NG158 NG159                     | Public Safety Land Mobile (90R)                                          |
|                                                                                        | 5.293 5.309 5.311A                                       |                     | 805-806             | 805-806<br>FIXED<br>MOBILE<br>BROADCASTING<br><br>NG159           | Wireless Communications (27)<br>LPTV and TV Translator (74G)             |
|                                                                                        | 806-890<br>FIXED<br>MOBILE 5.317A<br>BROADCASTING        |                     | 806-809             | 806-809<br>LAND MOBILE                                            | Public Safety Land Mobile (90S)                                          |
|                                                                                        |                                                          |                     | 809-851             | 809-849<br>FIXED<br>LAND MOBILE<br>849-851<br>AERONAUTICAL MOBILE | Public Mobile (22)<br>Private Land Mobile (90)<br><br>Public Mobile (22) |
| 5.312 5.314 5.315 5.316<br>5.316A 5.319                                                |                                                          |                     | 851-854             | 851-854<br>LAND MOBILE                                            | Public Safety Land Mobile (90S)                                          |
| 862-890<br>FIXED<br>MOBILE except aeronautical<br>mobile 5.317A<br>BROADCASTING 5.322  |                                                          |                     | 854-890             | 854-894<br>FIXED<br>LAND MOBILE                                   | Public Mobile (22)<br>Private Land Mobile (90)                           |
| 5.319 5.323                                                                            | 5.317 5.318                                              |                     |                     |                                                                   |                                                                          |

|                                                                                                        |                                                                                             |                                                                    |                              |                                 |                                                                         |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------------------------------------|
| 890-942<br>FIXED<br>MOBILE except aeronautical<br>mobile 5.317A<br>BROADCASTING 5.322<br>Radiolocation | 890-902<br>FIXED<br>MOBILE except aeronautical<br>mobile 5.317A<br>Radiolocation            | 890-942<br>FIXED<br>MOBILE 5.317A<br>BROADCASTING<br>Radiolocation | 890-902                      | US116 US268                     |                                                                         |
|                                                                                                        |                                                                                             |                                                                    |                              | 894-896<br>AERONAUTICAL MOBILE  | Public Mobile (22)                                                      |
|                                                                                                        |                                                                                             |                                                                    |                              | US116 US268                     |                                                                         |
|                                                                                                        | 5.318 5.325                                                                                 |                                                                    | US116 US268 G2               | 896-901<br>FIXED<br>LAND MOBILE | Private Land Mobile (90)                                                |
|                                                                                                        |                                                                                             |                                                                    |                              | US116 US268                     |                                                                         |
|                                                                                                        |                                                                                             |                                                                    |                              | 901-902<br>FIXED<br>MOBILE      | Personal Communications (24)                                            |
|                                                                                                        | 902-928<br>FIXED<br>Amateur<br>Mobile except aeronautical<br>mobile 5.325A<br>Radiolocation |                                                                    | 902-928<br>RADIOLOCATION G59 | US116 US268                     |                                                                         |
|                                                                                                        |                                                                                             |                                                                    |                              | 902-928                         | ISM Equipment (18)<br>Private Land Mobile (90)<br>Amateur Radio (97)    |
|                                                                                                        |                                                                                             |                                                                    |                              | 5.150 US218 US267 US275<br>G11  | 5.150 US218 US267 US275                                                 |
|                                                                                                        | 928-942<br>FIXED<br>MOBILE except aeronautical<br>mobile 5.317A<br>Radiolocation            |                                                                    | 928-932                      | 928-929<br>FIXED                | Public Mobile (22)<br>Private Land Mobile (90)<br>Fixed Microwave (101) |
|                                                                                                        |                                                                                             |                                                                    |                              | US116 US268 NG120               |                                                                         |
|                                                                                                        |                                                                                             |                                                                    |                              | 929-930<br>FIXED<br>LAND MOBILE | Private Land Mobile (90)                                                |
|                                                                                                        |                                                                                             |                                                                    |                              | US116 US268                     |                                                                         |
|                                                                                                        |                                                                                             |                                                                    |                              | 930-931<br>FIXED<br>MOBILE      | Personal Communications (24)                                            |
|                                                                                                        |                                                                                             |                                                                    |                              | US116 US268                     |                                                                         |
|                                                                                                        |                                                                                             |                                                                    |                              | 931-932<br>FIXED<br>LAND MOBILE | Public Mobile (22)                                                      |
|                                                                                                        |                                                                                             |                                                                    |                              | US116 US268                     |                                                                         |
|                                                                                                        |                                                                                             |                                                                    |                              | 932-935<br>FIXED                | Public Mobile (22)<br>Fixed Microwave (101)                             |
|                                                                                                        |                                                                                             |                                                                    |                              | US268 G2                        | US268 NG120                                                             |
|                                                                                                        |                                                                                             |                                                                    |                              | 935-941                         | 935-940<br>FIXED<br>LAND MOBILE                                         |
| US116 US268                                                                                            |                                                                                             |                                                                    |                              |                                 |                                                                         |
| 940-941<br>FIXED<br>MOBILE                                                                             |                                                                                             | Personal Communications (24)                                       |                              |                                 |                                                                         |
| US116 US268 G2                                                                                         |                                                                                             | US116 US268                                                        |                              |                                 |                                                                         |
| 5.323                                                                                                  | 5.325                                                                                       | 5.327                                                              |                              |                                 |                                                                         |

| Table of Frequency Allocations                                                                                                                                                              |                                   |                                                   | 941-1525 MHz (UHF)                                                                                                                                                    |                                                                                                                         |                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| International Table                                                                                                                                                                         |                                   |                                                   | United States Table                                                                                                                                                   |                                                                                                                         | FCC Rule Part(s)                                                                                            |
| Region 1 Table                                                                                                                                                                              | Region 2 Table                    | Region 3 Table                                    | Federal Table                                                                                                                                                         | Non-Federal Table                                                                                                       |                                                                                                             |
| (See previous page)                                                                                                                                                                         | (See previous page)               | (See previous page)                               | 941-944<br>FIXED                                                                                                                                                      | 941-944<br>FIXED                                                                                                        | Public Mobile (22)<br>Aural Broadcast Auxiliary (74E)<br>Fixed Microwave (101)                              |
| 942-960<br>FIXED<br>MOBILE except aeronautical<br>mobile 5.317A<br>BROADCASTING 5.322                                                                                                       | 942-960<br>FIXED<br>MOBILE 5.317A | 942-960<br>FIXED<br>MOBILE 5.317A<br>BROADCASTING | US268 US301 G2                                                                                                                                                        | US268 US301 NG30 NG120                                                                                                  |                                                                                                             |
| 5.323                                                                                                                                                                                       |                                   | 5.320                                             | 944-960                                                                                                                                                               | 944-960<br>FIXED                                                                                                        | Public Mobile (22)<br>Aural Broadcast Auxiliary (74E)<br>Low Power Auxiliary (74H)<br>Fixed Microwave (101) |
| 960-1164<br>AERONAUTICAL MOBILE (R) 5.327A<br>AERONAUTICAL RADIONAVIGATION 5.328                                                                                                            |                                   |                                                   |                                                                                                                                                                       | NG120                                                                                                                   |                                                                                                             |
|                                                                                                                                                                                             |                                   |                                                   | 960-1164<br>AERONAUTICAL RADIONAVIGATION 5.328                                                                                                                        |                                                                                                                         | Aviation (87)                                                                                               |
|                                                                                                                                                                                             |                                   |                                                   | US224 US400                                                                                                                                                           |                                                                                                                         |                                                                                                             |
| 1164-1215<br>AERONAUTICAL RADIONAVIGATION 5.328<br>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B                                                                       |                                   |                                                   | 1164-1215<br>AERONAUTICAL RADIONAVIGATION 5.328<br>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space)                                                        |                                                                                                                         |                                                                                                             |
| 5.328A                                                                                                                                                                                      |                                   |                                                   | 5.328A US224                                                                                                                                                          |                                                                                                                         |                                                                                                             |
| 1215-1240<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A<br>SPACE RESEARCH (active)            |                                   |                                                   | 1215-1240<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION G56<br>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) G132<br>SPACE RESEARCH (active) | 1215-1240<br>Earth exploration-satellite (active)<br>Space research (active)                                            |                                                                                                             |
| 5.330 5.331 5.332                                                                                                                                                                           |                                   |                                                   | 5.332                                                                                                                                                                 |                                                                                                                         |                                                                                                             |
| 1240-1300<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A<br>SPACE RESEARCH (active)<br>Amateur |                                   |                                                   | 1240-1300<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION G56<br>SPACE RESEARCH (active)<br>AERONAUTICAL RADIONAVIGATION                                     | 1240-1300<br>AERONAUTICAL RADIONAVIGATION<br>Amateur<br>Earth exploration-satellite (active)<br>Space research (active) | Amateur Radio (97)                                                                                          |
| 5.282 5.330 5.331 5.332 5.335 5.335A                                                                                                                                                        |                                   |                                                   | 5.332 5.335                                                                                                                                                           | 5.282                                                                                                                   |                                                                                                             |
| 1300-1350<br>RADIOLOCATION<br>AERONAUTICAL RADIONAVIGATION 5.337<br>RADIONAVIGATION-SATELLITE (Earth-to-space)                                                                              |                                   |                                                   | 1300-1350<br>AERONAUTICAL RADIONAVIGATION 5.337<br>Radiolocation G2                                                                                                   | 1300-1350<br>AERONAUTICAL RADIONAVIGATION 5.337                                                                         | Aviation (87)                                                                                               |
| 5.149 5.337A                                                                                                                                                                                |                                   |                                                   | US342                                                                                                                                                                 | US342                                                                                                                   |                                                                                                             |
| 1350-1400<br>FIXED<br>MOBILE<br>RADIOLOCATION                                                                                                                                               | 1350-1400<br>RADIOLOCATION 5.338A |                                                   | 1350-1390<br>FIXED<br>MOBILE<br>RADIOLOCATION G2                                                                                                                      | 1350-1390                                                                                                               |                                                                                                             |
|                                                                                                                                                                                             |                                   |                                                   | 5.334 5.339 US342 US385 G27 G114                                                                                                                                      | 5.334 5.339 US342 US385                                                                                                 |                                                                                                             |

|                                                                                                                                        |                                                                                                                |                                                                                                                       |                                                                                                                                                               |                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
|                                                                                                                                        |                                                                                                                | 1390-1395                                                                                                             | 1390-1392<br>FIXED<br>MOBILE except aeronautical mobile<br>Fixed-satellite (Earth-to-space) US368<br>5.339 US37 US342 US385 US398                             | Wireless Communications (27)                    |
|                                                                                                                                        |                                                                                                                | 5.339 US37 US342 US385 US398                                                                                          | 1392-1395<br>FIXED<br>MOBILE except aeronautical mobile<br>5.339 US37 US342 US385 US398                                                                       |                                                 |
| 5.149 5.338 5.338A 5.339                                                                                                               | 5.149 5.334 5.339                                                                                              | 1395-1400<br>LAND MOBILE (medical telemetry and medical telecommand)<br>5.339 US37 US342 US385 US398                  |                                                                                                                                                               | Personal Radio (95)                             |
| 1400-1427<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340 5.341                       |                                                                                                                | 1400-1427<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>5.341 US246 |                                                                                                                                                               |                                                 |
| 1427-1429<br>SPACE OPERATION (Earth-to-space)<br>FIXED<br>MOBILE except aeronautical mobile<br>5.338A 5.341                            |                                                                                                                | 1427-1429.5<br>LAND MOBILE (medical telemetry<br>and medical telecommand) US350                                       | 1427-1429.5<br>LAND MOBILE (telemetry and telecommand)<br>Fixed (telemetry)                                                                                   | Private Land Mobile (90)<br>Personal Radio (95) |
| 1429-1452<br>FIXED<br>MOBILE except aeronautical mobile                                                                                | 1429-1452<br>FIXED<br>MOBILE 5.343                                                                             | 5.341 US37 US398                                                                                                      | 5.341 US37 US350 US398                                                                                                                                        |                                                 |
|                                                                                                                                        |                                                                                                                | 1429.5-1432                                                                                                           | 1429.5-1430<br>FIXED (telemetry and telecommand)<br>LAND MOBILE (telemetry and telecommand)<br>5.341 US37 US350 US398                                         |                                                 |
|                                                                                                                                        |                                                                                                                | 5.341 US37 US350 US398                                                                                                | 1430-1432<br>FIXED (telemetry and telecommand)<br>LAND MOBILE (telemetry and telecommand)<br>Fixed-satellite (space-to-Earth) US368<br>5.341 US37 US350 US398 |                                                 |
| 5.338A 5.341 5.342                                                                                                                     | 5.338A 5.341                                                                                                   | 1432-1435                                                                                                             | 1432-1435<br>FIXED<br>MOBILE except aeronautical mobile<br>5.341 US83                                                                                         | Wireless Communications (27)                    |
| 1452-1492<br>FIXED<br>MOBILE except aeronautical mobile<br>BROADCASTING 5.345<br>BROADCASTING-SATELLITE<br>5.208B 5.345<br>5.341 5.342 | 1452-1492<br>FIXED<br>MOBILE 5.343<br>BROADCASTING 5.345<br>BROADCASTING-SATELLITE 5.208B 5.345<br>5.341 5.344 | 1435-1525<br>MOBILE (aeronautical telemetry)<br>5.341 US78                                                            |                                                                                                                                                               | Aviation (87)                                   |

| Table of Frequency Allocations                                                                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                                                                                | 1525-1670 MHz (UHF)                                                                                                                                                                                  |                   |                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------|
| International Table                                                                                                                                                                                                               |                                                                                                                                                                                                    |                                                                                                                                                                                                                | United States Table                                                                                                                                                                                  |                   | FCC Rule Part(s)                                                |
| Region 1 Table                                                                                                                                                                                                                    | Region 2 Table                                                                                                                                                                                     | Region 3 Table                                                                                                                                                                                                 | Federal Table                                                                                                                                                                                        | Non-Federal Table |                                                                 |
| 1492-1518<br>FIXED<br>MOBILE except aeronautical mobile<br>5.341 5.342                                                                                                                                                            | 1492-1518<br>FIXED<br>MOBILE 5.343<br>5.341 5.344                                                                                                                                                  | 1492-1518<br>FIXED<br>MOBILE<br>5.341                                                                                                                                                                          | (see previous page)                                                                                                                                                                                  |                   |                                                                 |
| 1518-1525<br>FIXED<br>MOBILE except aeronautical mobile<br>MOBILE-SATELLITE (space-to-Earth)<br>5.348 5.348A 5.348B 5.351A<br>5.341 5.342                                                                                         | 1518-1525<br>FIXED<br>MOBILE 5.343<br>MOBILE-SATELLITE (space-to-Earth)<br>5.348 5.348A 5.348B 5.351A<br>5.341 5.344                                                                               | 1518-1525<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)<br>5.348 5.348A 5.348B 5.351A<br>5.341                                                                                                       |                                                                                                                                                                                                      |                   |                                                                 |
| 1525-1530<br>SPACE OPERATION (space-to-Earth)<br>FIXED<br>MOBILE-SATELLITE (space-to-Earth)<br>5.208B 5.351A<br>Earth exploration-satellite<br>Mobile except aeronautical mobile 5.349<br>5.341 5.342 5.350 5.351 5.352A<br>5.354 | 1525-1530<br>SPACE OPERATION (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)<br>5.208B 5.351A<br>Earth exploration-satellite<br>Fixed<br>Mobile 5.343<br>5.341 5.351 5.354                   | 1525-1530<br>SPACE OPERATION (space-to-Earth)<br>FIXED<br>MOBILE-SATELLITE (space-to-Earth)<br>5.208B 5.351A<br>Earth exploration-satellite<br>Mobile 5.349<br>5.341 5.351 5.352A 5.354                        | 1525-1535<br>MOBILE-SATELLITE (space-to-Earth) US315 US380                                                                                                                                           |                   | Satellite Communications (25)<br>Maritime (80)                  |
| 1530-1535<br>SPACE OPERATION (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)<br>5.208B 5.351A 5.353A<br>Earth exploration-satellite<br>Fixed<br>Mobile except aeronautical mobile<br>5.341 5.342 5.351 5.354                | 1530-1535<br>SPACE OPERATION (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.353A<br>Earth exploration-satellite<br>Fixed<br>Mobile 5.343<br>5.341 5.351 5.354               |                                                                                                                                                                                                                |                                                                                                                                                                                                      |                   |                                                                 |
| 1535-1559<br>MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A<br><br>5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A                                                                                                |                                                                                                                                                                                                    |                                                                                                                                                                                                                | 1535-1559<br>MOBILE-SATELLITE (space-to-Earth) US308 US309<br>US315 US380<br><br>5.341 5.351 5.356                                                                                                   |                   | Satellite Communications (25)<br>Maritime (80)<br>Aviation (87) |
| 1559-1610<br>AERONAUTICAL RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.208B 5.328B 5.329A<br><br>5.341 5.362B 5.362C                                                                          |                                                                                                                                                                                                    |                                                                                                                                                                                                                | 1559-1610<br>AERONAUTICAL RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE (space-to-Earth)<br>(space-to-space)<br><br>5.341 US208 US260 US343                                                           |                   | Aviation (87)                                                   |
| 1610-1610.6<br>MOBILE-SATELLITE (Earth-to-space)<br>5.351A<br>AERONAUTICAL RADIONAVIGATION<br><br>5.341 5.355 5.359 5.364 5.366<br>5.367 5.368 5.369 5.371 5.372                                                                  | 1610-1610.6<br>MOBILE-SATELLITE (Earth-to-space)<br>5.351A<br>AERONAUTICAL RADIONAVIGATION<br>RADIODETERMINATION-SATELLITE<br>(Earth-to-space)<br><br>5.341 5.364 5.366 5.367 5.368<br>5.370 5.372 | 1610-1610.6<br>MOBILE-SATELLITE (Earth-to-space)<br>5.351A<br>AERONAUTICAL RADIONAVIGATION<br>Radiodetermination-satellite<br>(Earth-to-space)<br><br>5.341 5.355 5.359 5.364 5.366<br>5.367 5.368 5.369 5.372 | 1610-1610.6<br>MOBILE-SATELLITE (Earth-to-space) US319 US380<br>AERONAUTICAL RADIONAVIGATION US260<br>RADIODETERMINATION-SATELLITE (Earth-to-space)<br><br>5.341 5.364 5.366 5.367 5.368 5.372 US208 |                   | Satellite Communications (25)<br>Aviation (87)                  |

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| 1610.6-1613.8<br>MOBILE-SATELLITE (Earth-to-space) 5.351A<br>RADIO ASTRONOMY<br>AERONAUTICAL RADIONAVIGATION                                                       | 1610.6-1613.8<br>MOBILE-SATELLITE (Earth-to-space) 5.351A<br>RADIO ASTRONOMY<br>AERONAUTICAL RADIONAVIGATION<br>RADIODETERMINATION-SATELLITE (Earth-to-space)                          | 1610.6-1613.8<br>MOBILE-SATELLITE (Earth-to-space) 5.351A<br>RADIO ASTRONOMY<br>AERONAUTICAL RADIONAVIGATION<br>Radiodetermination-satellite (Earth-to-space)                          | 1610.6-1613.8<br>MOBILE-SATELLITE (Earth-to-space) US319 US380<br>RADIO ASTRONOMY<br>AERONAUTICAL RADIONAVIGATION US260<br>RADIODETERMINATION-SATELLITE (Earth-to-space)                   |                                                                 |
| 5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372                                                                                                  | 5.149 5.341 5.364 5.366 5.367 5.368 5.370 5.372                                                                                                                                        | 5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372                                                                                                                            | 5.341 5.364 5.366 5.367 5.368 5.372 US208 US342                                                                                                                                            |                                                                 |
| 1613.8-1626.5<br>MOBILE-SATELLITE (Earth-to-space) 5.351A<br>AERONAUTICAL RADIONAVIGATION<br>Mobile-satellite (space-to-Earth) 5.208B                              | 1613.8-1626.5<br>MOBILE-SATELLITE (Earth-to-space) 5.351A<br>AERONAUTICAL RADIONAVIGATION<br>RADIODETERMINATION-SATELLITE (Earth-to-space)<br>Mobile-satellite (space-to-Earth) 5.208B | 1613.8-1626.5<br>MOBILE-SATELLITE (Earth-to-space) 5.351A<br>AERONAUTICAL RADIONAVIGATION<br>Mobile-satellite (space-to-Earth) 5.208B<br>Radiodetermination-satellite (Earth-to-space) | 1613.8-1626.5<br>MOBILE-SATELLITE (Earth-to-space) US319 US380<br>AERONAUTICAL RADIONAVIGATION US260<br>RADIODETERMINATION-SATELLITE (Earth-to-space)<br>Mobile-satellite (space-to-Earth) |                                                                 |
| 5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372                                                                                                  | 5.341 5.364 5.365 5.366 5.367 5.368 5.370 5.372                                                                                                                                        | 5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.372                                                                                                                            | 5.341 5.364 5.365 5.366 5.367 5.368 5.372 US208                                                                                                                                            |                                                                 |
| 1626.5-1660<br>MOBILE-SATELLITE (Earth-to-space) 5.351A                                                                                                            |                                                                                                                                                                                        |                                                                                                                                                                                        | 1626.5-1660<br>MOBILE-SATELLITE (Earth-to-space) US308 US309 US315 US380                                                                                                                   | Satellite Communications (25)<br>Maritime (80)<br>Aviation (87) |
| 5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376                                                                                               |                                                                                                                                                                                        |                                                                                                                                                                                        | 5.341 5.351 5.375                                                                                                                                                                          |                                                                 |
| 1660-1660.5<br>MOBILE-SATELLITE (Earth-to-space) 5.351A<br>RADIO ASTRONOMY                                                                                         |                                                                                                                                                                                        |                                                                                                                                                                                        | 1660-1660.5<br>MOBILE-SATELLITE (Earth-to-space) US308 US309 US380<br>RADIO ASTRONOMY                                                                                                      | Satellite Communications (25)<br>Aviation (87)                  |
| 5.149 5.341 5.351 5.354 5.362A 5.376A                                                                                                                              |                                                                                                                                                                                        |                                                                                                                                                                                        | 5.341 5.351 US342                                                                                                                                                                          |                                                                 |
| 1660.5-1668<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>Fixed<br>Mobile except aeronautical mobile                                                           |                                                                                                                                                                                        |                                                                                                                                                                                        | 1660.5-1668.4<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)                                                                                                                          |                                                                 |
| 5.149 5.341 5.379 5.379A                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                        |                                                                                                                                                                                            |                                                                 |
| 1668-1668.4<br>MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>Fixed<br>Mobile except aeronautical mobile |                                                                                                                                                                                        |                                                                                                                                                                                        |                                                                                                                                                                                            |                                                                 |
| 5.149 5.341 5.379 5.379A                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                        | 5.341 US246                                                                                                                                                                                |                                                                 |
| 1668.4-1670<br>METEOROLOGICAL AIDS<br>FIXED<br>MOBILE except aeronautical mobile<br>MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C<br>RADIO ASTRONOMY      |                                                                                                                                                                                        |                                                                                                                                                                                        | 1668.4-1670<br>METEOROLOGICAL AIDS (radiosonde)<br>RADIO ASTRONOMY US74                                                                                                                    |                                                                 |
| 5.149 5.341 5.379D 5.379E                                                                                                                                          |                                                                                                                                                                                        |                                                                                                                                                                                        | 5.341 US99 US342                                                                                                                                                                           |                                                                 |

| Table of Frequency Allocations                                                                                                                                                    |                                                                                                        |                                                                                                                           | 1670-2200 MHz (UHF)                                                                        |                                                                                  |                                                                          |
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| International Table                                                                                                                                                               |                                                                                                        |                                                                                                                           | United States Table                                                                        |                                                                                  | FCC Rule Part(s)                                                         |
| Region 1 Table                                                                                                                                                                    | Region 2 Table                                                                                         | Region 3 Table                                                                                                            | Federal Table                                                                              | Non-Federal Table                                                                |                                                                          |
| 1670-1675<br>METEOROLOGICAL AIDS<br>FIXED<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B<br>5.341 5.379D 5.379E 5.380A |                                                                                                        |                                                                                                                           | 1670-1675<br><br><br><br><br>5.341 US211 US362                                             | 1670-1675<br>FIXED<br>MOBILE except aeronautical mobile<br><br>5.341 US211 US362 | Wireless Communications (27)                                             |
| 1675-1690<br>METEOROLOGICAL AIDS<br>FIXED<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile<br><br>5.341                                          |                                                                                                        |                                                                                                                           | 1675-1700<br>METEOROLOGICAL AIDS (radiosonde)<br>METEOROLOGICAL-SATELLITE (space-to-Earth) |                                                                                  |                                                                          |
| 1690-1700<br>METEOROLOGICAL AIDS<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>Fixed<br>Mobile except aeronautical mobile<br>5.289 5.341 5.382                                  | 1690-1700<br>METEOROLOGICAL AIDS<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br><br>5.289 5.341 5.381 | 5.289 5.341 US211                                                                                                         |                                                                                            |                                                                                  |                                                                          |
| 1700-1710<br>FIXED<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile<br><br>5.289 5.341                                                           |                                                                                                        | 1700-1710<br>FIXED<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile<br>5.289 5.341 5.384 | 1700-1710<br>FIXED G118<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br><br>5.289 5.341    | 1700-1710<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>Fixed<br>5.289 5.341   |                                                                          |
| 1710-1930<br>FIXED<br>MOBILE 5.384A 5.388A 5.388B<br><br><br>5.149 5.341 5.385 5.386 5.387 5.388                                                                                  |                                                                                                        |                                                                                                                           | 1710-1755<br><br>5.341 US378 US385                                                         | 1710-1755<br>FIXED<br>MOBILE<br>5.341 US378 US385                                | Wireless Communications (27)                                             |
|                                                                                                                                                                                   |                                                                                                        |                                                                                                                           | 1755-1850<br>FIXED<br>MOBILE<br>SPACE OPERATION (Earth-to-space) G42                       | 1755-1850                                                                        |                                                                          |
| 1930-1970<br>FIXED<br>MOBILE 5.388A 5.388B<br><br>5.388                                                                                                                           | 1930-1970<br>FIXED<br>MOBILE 5.388A 5.388B<br>Mobile-satellite (Earth-to-space)<br>5.388               | 1930-1970<br>FIXED<br>MOBILE 5.388A 5.388B<br><br>5.388                                                                   | 1850-1980                                                                                  | 1850-2000<br>FIXED<br>MOBILE                                                     | RF Devices (15)<br>Personal Communications (24)<br>Fixed Microwave (101) |
| 1970-1980<br>FIXED<br>MOBILE 5.388A 5.388B<br><br>5.388                                                                                                                           |                                                                                                        |                                                                                                                           |                                                                                            |                                                                                  |                                                                          |

|                                                                                                                                                                                                              |                                                                                              |                                            |                                                                                                                                                                                     |                                                                   |                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1980-2010<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space) 5.351A                                                                                                                                     |                                                                                              |                                            | 1980-2025                                                                                                                                                                           | NG177                                                             | Satellite Communications (25)                                                          |
| 5.388 5.389A 5.389B 5.389F                                                                                                                                                                                   |                                                                                              |                                            |                                                                                                                                                                                     | 2000-2020<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space) |                                                                                        |
| 2010-2025<br>FIXED<br>MOBILE 5.388A 5.388B                                                                                                                                                                   | 2010-2025<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)                            | 2010-2025<br>FIXED<br>MOBILE 5.388A 5.388B |                                                                                                                                                                                     | 2020-2025<br>FIXED<br>MOBILE                                      |                                                                                        |
| 5.388                                                                                                                                                                                                        | 5.388 5.389C 5.389E                                                                          | 5.388                                      |                                                                                                                                                                                     | NG177                                                             |                                                                                        |
| 2025-2110<br>SPACE OPERATION (Earth-to-space) (space-to-space)<br>EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space)<br>FIXED<br>MOBILE 5.391<br>SPACE RESEARCH (Earth-to-space) (space-to-space) |                                                                                              |                                            | 2025-2110<br>SPACE OPERATION (Earth-to-space) (space-to-space)<br>EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space)<br>SPACE RESEARCH (Earth-to-space) (space-to-space) | 2025-2110<br>FIXED NG118<br>MOBILE 5.391                          | TV Auxiliary Broadcasting (74F)<br>Cable TV Relay (78)<br>Local TV Transmission (101J) |
| 5.392                                                                                                                                                                                                        |                                                                                              |                                            | 5.391 5.392 US90 US222 US346 US347 US393                                                                                                                                            | 5.392 US90 US222 US346 US347 US393                                |                                                                                        |
| 2110-2120<br>FIXED<br>MOBILE 5.388A 5.388B<br>SPACE RESEARCH (deep space) (Earth-to-space)                                                                                                                   |                                                                                              |                                            | 2110-2120                                                                                                                                                                           | 2110-2120<br>FIXED<br>MOBILE                                      | Public Mobile (22)<br>Wireless Communications (27)<br>Fixed Microwave (101)            |
| 5.388                                                                                                                                                                                                        |                                                                                              |                                            | US252                                                                                                                                                                               | US252                                                             |                                                                                        |
| 2120-2170<br>FIXED<br>MOBILE 5.388A 5.388B                                                                                                                                                                   | 2120-2160<br>FIXED<br>MOBILE 5.388A 5.388B<br>Mobile-satellite (space-to-Earth)<br><br>5.388 | 2120-2170<br>FIXED<br>MOBILE 5.388A 5.388B | 2120-2200                                                                                                                                                                           | 2120-2180<br>FIXED<br>MOBILE                                      |                                                                                        |
|                                                                                                                                                                                                              | 2160-2170<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)                            |                                            |                                                                                                                                                                                     |                                                                   |                                                                                        |
| 5.388                                                                                                                                                                                                        | 5.388 5.389C 5.389E                                                                          | 5.388                                      |                                                                                                                                                                                     | NG153 NG178                                                       | Satellite Communications (25)<br>Wireless Communications (27)                          |
| 2170-2200<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth) 5.351A                                                                                                                                     |                                                                                              |                                            |                                                                                                                                                                                     | 2180-2200<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth) |                                                                                        |
| 5.388 5.389A 5.389F                                                                                                                                                                                          |                                                                                              |                                            |                                                                                                                                                                                     |                                                                   |                                                                                        |

| Table of Frequency Allocations                                                                                                                                                                               |                                                                 |                                                             | 2200-2655 MHz (UHF)                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|
| International Table                                                                                                                                                                                          |                                                                 |                                                             | United States Table                                                                                                                                                                                                                                                                                                                      |                                                                                     | FCC Rule Part(s)                                   |
| Region 1 Table                                                                                                                                                                                               | Region 2 Table                                                  | Region 3 Table                                              | Federal Table                                                                                                                                                                                                                                                                                                                            | Non-Federal Table                                                                   |                                                    |
| 2200-2290<br>SPACE OPERATION (space-to-Earth) (space-to-space)<br>EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space)<br>FIXED<br>MOBILE 5.391<br>SPACE RESEARCH (space-to-Earth) (space-to-space) |                                                                 |                                                             | 2200-2290<br>SPACE OPERATION (space-to-Earth) (space-to-space)<br>EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space)<br>FIXED (line-of-sight only)<br>MOBILE (line-of-sight only including aeronautical telemetry, but excluding flight testing of manned aircraft) 5.391<br>SPACE RESEARCH (space-to-Earth) (space-to-space) | 2200-2290                                                                           |                                                    |
| 5.392                                                                                                                                                                                                        |                                                                 |                                                             | 5.392 US303                                                                                                                                                                                                                                                                                                                              | US303                                                                               |                                                    |
| 2290-2300<br>FIXED<br>MOBILE except aeronautical mobile<br>SPACE RESEARCH (deep space) (space-to-Earth)                                                                                                      |                                                                 |                                                             | 2290-2300<br>FIXED<br>MOBILE except aeronautical mobile<br>SPACE RESEARCH (deep space) (space-to-Earth)                                                                                                                                                                                                                                  | 2290-2300<br>SPACE RESEARCH (deep space) (space-to-Earth)                           |                                                    |
| 2300-2450<br>FIXED<br>MOBILE 5.384A<br>Amateur<br>Radiolocation                                                                                                                                              | 2300-2450<br>FIXED<br>MOBILE 5.384A<br>RADIOLOCATION<br>Amateur |                                                             | 2300-2305<br>G122                                                                                                                                                                                                                                                                                                                        | 2300-2305<br>Amateur                                                                | Amateur Radio (97)                                 |
|                                                                                                                                                                                                              |                                                                 |                                                             | 2305-2310                                                                                                                                                                                                                                                                                                                                | 2305-2310<br>FIXED<br>MOBILE except aeronautical mobile<br>RADIOLOCATION<br>Amateur | Wireless Communications (27)<br>Amateur Radio (97) |
|                                                                                                                                                                                                              |                                                                 |                                                             | US97 G122                                                                                                                                                                                                                                                                                                                                | US97                                                                                |                                                    |
|                                                                                                                                                                                                              |                                                                 |                                                             | 2310-2320<br>Fixed<br>Mobile US339<br>Radiolocation G2                                                                                                                                                                                                                                                                                   | 2310-2320<br>FIXED<br>MOBILE US339<br>BROADCASTING-SATELLITE<br>RADIOLOCATION       | Wireless Communications (27)<br>Aviation (87)      |
|                                                                                                                                                                                                              |                                                                 |                                                             | US97 US327                                                                                                                                                                                                                                                                                                                               | 5.396 US97 US327                                                                    |                                                    |
|                                                                                                                                                                                                              |                                                                 |                                                             | 2320-2345<br>Fixed<br>Radiolocation G2                                                                                                                                                                                                                                                                                                   | 2320-2345<br>BROADCASTING-SATELLITE                                                 | Satellite Communications (25)                      |
|                                                                                                                                                                                                              |                                                                 |                                                             | US327                                                                                                                                                                                                                                                                                                                                    | 5.396 US327                                                                         |                                                    |
|                                                                                                                                                                                                              |                                                                 |                                                             | 2345-2360<br>Fixed<br>Mobile US339<br>Radiolocation G2                                                                                                                                                                                                                                                                                   | 2345-2360<br>FIXED<br>MOBILE US339<br>BROADCASTING-SATELLITE<br>RADIOLOCATION       | Wireless Communications (27)<br>Aviation (87)      |
|                                                                                                                                                                                                              |                                                                 | US327                                                       | 5.396 US327                                                                                                                                                                                                                                                                                                                              |                                                                                     |                                                    |
|                                                                                                                                                                                                              |                                                                 | 2360-2390<br>MOBILE US276<br>RADIOLOCATION G2 G120<br>Fixed | 2360-2390<br>MOBILE US276                                                                                                                                                                                                                                                                                                                | Aviation (87)<br>Personal Radio (95)                                                |                                                    |
|                                                                                                                                                                                                              |                                                                 | US101                                                       | US101                                                                                                                                                                                                                                                                                                                                    |                                                                                     |                                                    |

|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  |                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                               |
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|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  | 2390-2395<br>MOBILE US276                                                                                                        | 2390-2395<br>AMATEUR<br>MOBILE US276                                                                                                                                                                        | Aviation (87)<br>Personal Radio (95)<br>Amateur Radio (97)                                                    |
|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  | US101                                                                                                                            | US101                                                                                                                                                                                                       |                                                                                                               |
|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  | 2395-2400                                                                                                                        | 2395-2400<br>AMATEUR<br>US101                                                                                                                                                                               | Personal Radio (95)<br>Amateur Radio (97)                                                                     |
|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  | US101 G122                                                                                                                       |                                                                                                                                                                                                             |                                                                                                               |
|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  | 2400-2417                                                                                                                        | 2400-2417<br>AMATEUR                                                                                                                                                                                        | ISM Equipment (18)<br>Amateur Radio (97)                                                                      |
|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  | 5.150 G122                                                                                                                       | 5.150 5.282                                                                                                                                                                                                 |                                                                                                               |
|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  | 2417-2450<br>Radiolocation G2                                                                                                    | 2417-2450<br>Amateur                                                                                                                                                                                        |                                                                                                               |
|                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                  | 5.150                                                                                                                            | 5.150 5.282                                                                                                                                                                                                 |                                                                                                               |
| 5.150 5.282 5.395                                                                                                | 5.150 5.282 5.393 5.394 5.396                                                                                                                                 |                                                                                                                                                                                  |                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                               |
| 2450-2483.5<br>FIXED<br>MOBILE<br>Radiolocation                                                                  | 2450-2483.5<br>FIXED<br>MOBILE<br>RADIOLOCATION                                                                                                               |                                                                                                                                                                                  | 2450-2483.5                                                                                                                      | 2450-2483.5<br>FIXED<br>MOBILE<br>Radiolocation                                                                                                                                                             | ISM Equipment (18)<br>TV Auxiliary<br>Broadcasting (74F)<br>Private Land Mobile (90)<br>Fixed Microwave (101) |
| 5.150 5.397                                                                                                      | 5.150                                                                                                                                                         |                                                                                                                                                                                  | 5.150 US41                                                                                                                       | 5.150 US41                                                                                                                                                                                                  |                                                                                                               |
| 2483.5-2500<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE<br>(space-to-Earth) 5.351A<br>Radiolocation                   | 2483.5-2500<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE<br>(space-to-Earth) 5.351A<br>RADIODETERMINATION-<br>SATELLITE (space-to-Earth)<br>5.398<br>RADIOLOCATION  | 2483.5-2500<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)<br>5.351A<br>RADIOLOCATION<br>Radiodetermination-satellite (space-to-Earth)<br>5.398                         | 2483.5-2500<br>MOBILE-SATELLITE (space-to-<br>Earth) US319 US380 US391<br>RADIODETERMINATION-SATELLITE<br>(space-to-Earth) 5.398 | 2483.5-2495<br>MOBILE-SATELLITE (space-to-<br>Earth) US380<br>RADIODETERMINATION-SATEL-<br>LITE (space-to-Earth) 5.398<br>5.150 5.402 US41 US319 NG147                                                      | ISM Equipment (18)<br>Satellite<br>Communications (25)                                                        |
| 5.150 5.371 5.397 5.398<br>5.399 5.400 5.402                                                                     | 5.150 5.402                                                                                                                                                   | 5.150 5.400 5.402                                                                                                                                                                | 5.150 5.402 US41                                                                                                                 | 2495-2500<br>FIXED<br>MOBILE except aeronautical mobile<br>MOBILE-SATELLITE (space-to-<br>Earth) US380<br>RADIODETERMINATION-SATEL-<br>LITE (space-to-Earth) 5.398<br>5.150 5.402 US41 US319 US391<br>NG147 | ISM Equipment (18)<br>Satellite<br>Communications (25)<br>Wireless<br>Communications (27)                     |
| 2500-2520<br>FIXED 5.410<br>MOBILE except aeronautical<br>mobile 5.384A                                          | 2500-2520<br>FIXED 5.410<br>FIXED-SATELLITE (space-to-<br>Earth) 5.415<br>MOBILE except aeronautical<br>mobile 5.384A                                         | 2500-2520<br>FIXED 5.410<br>FIXED-SATELLITE (space-to-Earth) 5.415<br>MOBILE except aeronautical mobile 5.384A<br>MOBILE-SATELLITE (space-to-Earth)<br>5.351A 5.407 5.414 5.414A | 2500-2655                                                                                                                        | 2500-2655<br>FIXED US205<br>MOBILE except aeronautical mobile                                                                                                                                               | Wireless<br>Communications (27)                                                                               |
| 5.405 5.412                                                                                                      | 5.404                                                                                                                                                         | 5.404 5.415A                                                                                                                                                                     |                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                               |
| 2520-2655<br>FIXED 5.410<br>MOBILE except aeronautical<br>mobile 5.384A<br>BROADCASTING-SATELLITE<br>5.413 5.416 | 2520-2655<br>FIXED 5.410<br>FIXED-SATELLITE<br>(space-to-Earth) 5.415<br>MOBILE except aeronautical<br>mobile 5.384A<br>BROADCASTING-SATELLITE<br>5.413 5.416 | 2520-2535<br>FIXED 5.410<br>FIXED-SATELLITE (space-to-Earth) 5.415<br>MOBILE except aeronautical mobile 5.384A<br>BROADCASTING-SATELLITE 5.413 5.416<br>5.403 5.414A 5.415A      |                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                               |
|                                                                                                                  |                                                                                                                                                               | 2535-2655<br>FIXED 5.410<br>MOBILE except aeronautical mobile 5.384A<br>BROADCASTING-SATELLITE 5.413 5.416                                                                       |                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                               |
| 5.339 5.405 5.412 5.417C<br>5.417D 5.418B 5.418C                                                                 | 5.339 5.417C 5.417D 5.418B<br>5.418C                                                                                                                          | 5.339 5.417A 5.417B 5.417C 5.417D<br>5.418 5.418A 5.418B 5.418C                                                                                                                  | 5.339 US205                                                                                                                      | 5.339                                                                                                                                                                                                       |                                                                                                               |

Table of Frequency Allocations

2655-4990 MHz (UHF/SHF)

| International Table                                                                                                                                                                                       |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | United States Table                                                                                     |                                                                                                                                                       | FCC Rule Part(s)                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Region 1 Table                                                                                                                                                                                            | Region 2 Table                                                                                                                                                                                                                                                | Region 3 Table                                                                                                                                                                                                                                           | Federal Table                                                                                           | Non-Federal Table                                                                                                                                     |                                           |
| 2655-2670<br>FIXED 5.410<br>MOBILE except aeronautical mobile 5.384A<br>BROADCASTING-SATELLITE 5.208B 5.413 5.416<br>Earth exploration-satellite (passive)<br>Radio astronomy<br>Space research (passive) | 2655-2670<br>FIXED 5.410<br>FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.415<br>MOBILE except aeronautical mobile 5.384A<br>BROADCASTING-SATELLITE 5.413 5.416<br>Earth exploration-satellite (passive)<br>Radio astronomy<br>Space research (passive) | 2655-2670<br>FIXED 5.410<br>FIXED-SATELLITE (Earth-to-space) 5.415<br>MOBILE except aeronautical mobile 5.384A<br>BROADCASTING-SATELLITE 5.413 5.416<br>Earth exploration-satellite (passive)<br>Radio astronomy<br>Space research (passive)             | 2655-2690<br>Earth exploration-satellite (passive)<br>Radio astronomy US385<br>Space research (passive) | 2655-2690<br>FIXED US205<br>MOBILE except aeronautical mobile<br>Earth exploration-satellite (passive)<br>Radio astronomy<br>Space research (passive) | Wireless Communications (27)              |
| 5.149 5.412                                                                                                                                                                                               | 5.149 5.208B                                                                                                                                                                                                                                                  | 5.149 5.208B 5.420                                                                                                                                                                                                                                       |                                                                                                         |                                                                                                                                                       |                                           |
| 2670-2690<br>FIXED 5.410<br>MOBILE except aeronautical mobile 5.384A<br>Earth exploration-satellite (passive)<br>Radio astronomy<br>Space research (passive)                                              | 2670-2690<br>FIXED 5.410<br>FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.208B 5.415<br>MOBILE except aeronautical mobile 5.384A<br>Earth exploration-satellite (passive)<br>Radio astronomy<br>Space research (passive)                                | 2670-2690<br>FIXED 5.410<br>FIXED-SATELLITE (Earth-to-space) 5.415<br>MOBILE except aeronautical mobile 5.384A<br>MOBILE-SATELLITE (Earth-to-space) 5.351A 5.419<br>Earth exploration-satellite (passive)<br>Radio astronomy<br>Space research (passive) |                                                                                                         |                                                                                                                                                       |                                           |
| 5.149 5.412                                                                                                                                                                                               | 5.149                                                                                                                                                                                                                                                         | 5.149                                                                                                                                                                                                                                                    | US205                                                                                                   | US385                                                                                                                                                 |                                           |
| 2690-2700<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)                                                                                                         |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | 2690-2700<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)  |                                                                                                                                                       |                                           |
| 5.340 5.422                                                                                                                                                                                               |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | US246                                                                                                   |                                                                                                                                                       |                                           |
| 2700-2900<br>AERONAUTICAL RADIONAVIGATION 5.337<br>Radiolocation                                                                                                                                          |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | 2700-2900<br>METEOROLOGICAL AIDS<br>AERONAUTICAL RADIONAVIGATION 5.337 US18<br>Radiolocation G2         | 2700-2900                                                                                                                                             | Aviation (87)                             |
| 5.423 5.424                                                                                                                                                                                               |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | 5.423 G15                                                                                               | 5.423 US18                                                                                                                                            |                                           |
| 2900-3100<br>RADIOLOCATION 5.424A<br>RADIONAVIGATION 5.426                                                                                                                                                |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | 2900-3100<br>RADIOLOCATION 5.424A G56<br>MARITIME RADIONAVIGATION                                       | 2900-3100<br>MARITIME RADIONAVIGATION<br>Radiolocation US44                                                                                           | Maritime (80)<br>Private Land Mobile (90) |
| 5.425 5.427                                                                                                                                                                                               |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | 5.427 US44 US316                                                                                        | 5.427 US316                                                                                                                                           |                                           |
| 3100-3300<br>RADIOLOCATION<br>Earth exploration-satellite (active)<br>Space research (active)                                                                                                             |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | 3100-3300<br>RADIOLOCATION G59<br>Earth exploration-satellite (active)<br>Space research (active)       | 3100-3300<br>Earth exploration-satellite (active)<br>Space research (active)<br>Radiolocation                                                         | Private Land Mobile (90)                  |
| 5.149 5.428                                                                                                                                                                                               |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                          | US342                                                                                                   | US342                                                                                                                                                 |                                           |

|                                                                                          |                                                                                                                    |                                                                                                                                 |                                                                                          |                                                                                                                                                                                                      |                                                              |
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| 3300-3400<br>RADIOLOCATION                                                               | 3300-3400<br>RADIOLOCATION<br>Amateur<br>Fixed<br>Mobile                                                           | 3300-3400<br>RADIOLOCATION<br>Amateur                                                                                           | 3300-3500<br>RADIOLOCATION US108 G2                                                      | 3300-3500<br>Amateur<br>Radiolocation US108                                                                                                                                                          | Private Land Mobile (90)<br>Amateur Radio (97)               |
| 5.149 5.429 5.430                                                                        | 5.149                                                                                                              | 5.149 5.429                                                                                                                     |                                                                                          |                                                                                                                                                                                                      |                                                              |
| 3400-3600<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>Mobile 5.430A<br>Radiolocation | 3400-3500<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>Amateur<br>Mobile 5.431A<br>Radiolocation 5.433<br>5.282 | 3400-3500<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>Amateur<br>Mobile 5.432B<br>Radiolocation 5.433<br>5.282 5.432 5.432A | US342                                                                                    | 5.282 US342                                                                                                                                                                                          |                                                              |
| 5.431                                                                                    | 3500-3700<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile<br>Radiolocation 5.433 | 3500-3600<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile<br>5.433A<br>Radiolocation 5.433    | 3500-3650<br>RADIOLOCATION G59<br>AERONAUTICAL<br>RADIONAVIGATION<br>(ground-based) G110 | 3500-3600<br>Radiolocation                                                                                                                                                                           | Private Land Mobile (90)                                     |
| 3600-4200<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>Mobile                         |                                                                                                                    | 3600-3700<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile<br>Radiolocation 5.433<br>5.435     | US245<br>3650-3700                                                                       | 3600-3650<br>FIXED-SATELLITE<br>(space-to-Earth) US245<br>Radiolocation<br>3650-3700<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>NG169 NG185<br>MOBILE except aeronautical mobile<br>US109 US349 | Satellite<br>Communications (25)<br>Private Land Mobile (90) |
|                                                                                          | 3700-4200<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile                        |                                                                                                                                 | US109 US349<br>3700-4200                                                                 | 3700-4200<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>NG180                                                                                                                                      | Satellite<br>Communications (25)<br>Fixed Microwave (101)    |
| 4200-4400<br>AERONAUTICAL RADIONAVIGATION 5.438<br>5.439 5.440                           |                                                                                                                    |                                                                                                                                 | 4200-4400<br>AERONAUTICAL RADIONAVIGATION<br>5.440 US261                                 |                                                                                                                                                                                                      | Aviation (87)                                                |
| 4400-4500<br>FIXED<br>MOBILE 5.440A                                                      |                                                                                                                    |                                                                                                                                 | 4400-4500<br>FIXED<br>MOBILE                                                             | 4400-4500                                                                                                                                                                                            |                                                              |
| 4500-4800<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.441<br>MOBILE 5.440A            |                                                                                                                    |                                                                                                                                 | 4500-4800<br>FIXED<br>MOBILE<br>US245                                                    | 4500-4800<br>FIXED-SATELLITE (space-to-Earth)<br>5.441 US245                                                                                                                                         |                                                              |
| 4800-4990<br>FIXED<br>MOBILE 5.440A 5.442<br>Radio astronomy                             |                                                                                                                    |                                                                                                                                 | 4800-4940<br>FIXED<br>MOBILE<br>US203 US342<br>4940-4990                                 | 4800-4940<br>US203 US342<br>4940-4990<br>FIXED<br>MOBILE except aeronautical mobile<br>5.339 US342 US385                                                                                             | Public Safety Land Mobile<br>(90Y)                           |
| 5.149 5.339 5.443                                                                        |                                                                                                                    |                                                                                                                                 | 5.339 US342 US385 G122                                                                   |                                                                                                                                                                                                      |                                                              |

| Table of Frequency Allocations                                                                                                                                                  |                |                | 4990-5925 MHz (SHF)                                                                                                                                          |                                                                                                                                                     |                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| International Table                                                                                                                                                             |                |                | United States Table                                                                                                                                          |                                                                                                                                                     | FCC Rule Part(s)                                                  |
| Region 1 Table                                                                                                                                                                  | Region 2 Table | Region 3 Table | Federal Table                                                                                                                                                | Non-Federal Table                                                                                                                                   |                                                                   |
| 4990-5000<br>FIXED<br>MOBILE except aeronautical mobile<br>RADIO ASTRONOMY<br>Space research (passive)<br>5.149                                                                 |                |                | 4990-5000<br>RADIO ASTRONOMY US74<br>Space research (passive)<br><br>US246                                                                                   |                                                                                                                                                     |                                                                   |
| 5000-5010<br>AERONAUTICAL RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE (Earth-to-space)<br>5.367                                                                                |                |                | 5000-5010<br>AERONAUTICAL RADIONAVIGATION US260<br>RADIONAVIGATION-SATELLITE (Earth-to-space)<br>5.367 US211                                                 |                                                                                                                                                     | Aviation (87)                                                     |
| 5010-5030<br>AERONAUTICAL RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B<br>5.367                                                 |                |                | 5010-5030<br>AERONAUTICAL RADIONAVIGATION US260<br>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.443B<br>5.367 US211                         |                                                                                                                                                     |                                                                   |
| 5030-5091<br>AERONAUTICAL RADIONAVIGATION<br>5.367 5.444                                                                                                                        |                |                | 5030-5091<br>AERONAUTICAL RADIONAVIGATION US260<br>5.367 US211 US444                                                                                         |                                                                                                                                                     |                                                                   |
| 5091-5150<br>AERONAUTICAL RADIONAVIGATION<br>AERONAUTICAL MOBILE 5.444B<br>5.367 5.444 5.444A                                                                                   |                |                | 5091-5150<br>AERONAUTICAL RADIONAVIGATION US260<br><br>5.367 US211 US344 US444 US444A                                                                        |                                                                                                                                                     |                                                                   |
| 5150-5250<br>AERONAUTICAL RADIONAVIGATION<br>FIXED-SATELLITE (Earth-to-space) 5.447A<br>MOBILE except aeronautical mobile 5.446A 5.446B<br><br>5.446 5.446C 5.447 5.447B 5.447C |                |                | 5150-5250<br>AERONAUTICAL RADIONAVIGATION US260<br><br>US211 US307 US344                                                                                     | 5150-5250<br>AERONAUTICAL RADIONAVIGATION US260<br>FIXED-SATELLITE (Earth-to-space) 5.447A US344<br>5.447C US211 US307                              | RF Devices (15)<br>Satellite Communications (25)<br>Aviation (87) |
| 5250-5255<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH 5.447D<br>MOBILE except aeronautical mobile 5.446A 5.447F<br>5.447E 5.448 5.448A           |                |                | 5250-5255<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION G59<br>SPACE RESEARCH (active) 5.447D<br>5.448A                                           | 5250-5255<br>Earth exploration-satellite (active)<br>Radiolocation<br>Space research                                                                | RF Devices (15)<br>Private Land Mobile (90)                       |
| 5255-5350<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH (active)<br>MOBILE except aeronautical mobile 5.446A 5.447F<br>5.447E 5.448 5.448A         |                |                | 5255-5350<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION G59<br>SPACE RESEARCH (active)<br>5.448A                                                  | 5255-5350<br>Earth exploration-satellite (active)<br>Radiolocation<br>Space research (active)<br>5.448A                                             |                                                                   |
| 5350-5460<br>EARTH EXPLORATION-SATELLITE (active) 5.448B<br>SPACE RESEARCH (active) 5.448C<br>AERONAUTICAL RADIONAVIGATION 5.449<br>RADIOLOCATION 5.448D                        |                |                | 5350-5460<br>EARTH EXPLORATION-SATELLITE (active) 5.448B<br>SPACE RESEARCH (active)<br>AERONAUTICAL RADIONAVIGATION 5.449<br>RADIOLOCATION G56<br>US390 G130 | 5350-5460<br>AERONAUTICAL RADIONAVIGATION 5.449<br>Earth exploration-satellite (active) 5.448B<br>Space research (active)<br>Radiolocation<br>US390 |                                                                   |

|                                                                                                                                                                                     |                                                                                              |                                                                                   |                                                                                                                                    |                                                                                                                                |                                                                                             |
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| 5460-5470<br>RADIONAVIGATION 5.449<br>EARTH EXPLORATION-SATELLITE (active)<br>SPACE RESEARCH (active)<br>RADIOLOCATION 5.448D                                                       |                                                                                              |                                                                                   | 5460-5470<br>RADIONAVIGATION 5.449 US65<br>EARTH EXPLORATION-SATELLITE (active)<br>SPACE RESEARCH (active)<br>RADIOLOCATION G56    | 5460-5470<br>RADIONAVIGATION 5.449 US65<br>Earth exploration-satellite (active)<br>Space research (active)<br>Radiolocation    | Maritime (80)<br>Aviation (87)<br>Private Land Mobile (90)                                  |
| 5.448B                                                                                                                                                                              |                                                                                              |                                                                                   | 5.448B US49 G130                                                                                                                   | 5.448B US49                                                                                                                    |                                                                                             |
| 5470-5570<br>MARITIME RADIONAVIGATION<br>MOBILE except aeronautical mobile 5.446A 5.450A<br>EARTH EXPLORATION-SATELLITE (active)<br>SPACE RESEARCH (active)<br>RADIOLOCATION 5.450B |                                                                                              |                                                                                   | 5470-5570<br>MARITIME RADIONAVIGATION US65<br>EARTH EXPLORATION-SATELLITE (active)<br>SPACE RESEARCH (active)<br>RADIOLOCATION G56 | 5470-5570<br>MARITIME RADIONAVIGATION US65<br>RADIOLOCATION<br>Earth exploration-satellite (active)<br>Space research (active) | RF Devices (15)<br>Maritime (80)<br>Private Land Mobile (90)                                |
| 5.448B 5.450 5.451                                                                                                                                                                  |                                                                                              |                                                                                   | 5.448B US50 G131                                                                                                                   | US50                                                                                                                           |                                                                                             |
| 5570-5650<br>MARITIME RADIONAVIGATION<br>MOBILE except aeronautical mobile 5.446A 5.450A<br>RADIOLOCATION 5.450B                                                                    |                                                                                              |                                                                                   | 5570-5600<br>MARITIME RADIONAVIGATION US65<br>RADIOLOCATION G56<br><br>US50 G131                                                   | 5570-5600<br>MARITIME RADIONAVIGATION US65<br>RADIOLOCATION<br><br>US50                                                        |                                                                                             |
|                                                                                                                                                                                     |                                                                                              |                                                                                   | 5600-5650<br>MARITIME RADIONAVIGATION US65<br>METEOROLOGICAL AIDS<br>RADIOLOCATION G56                                             | 5600-5650<br>MARITIME RADIONAVIGATION US65<br>METEOROLOGICAL AIDS<br>RADIOLOCATION                                             |                                                                                             |
| 5.450 5.451 5.452                                                                                                                                                                   |                                                                                              |                                                                                   | 5.452 US50 G131                                                                                                                    | 5.452 US50                                                                                                                     |                                                                                             |
| 5650-5725<br>MOBILE except aeronautical mobile 5.446A 5.450A<br>RADIOLOCATION<br>Amateur<br>Space research (deep space)                                                             |                                                                                              |                                                                                   | 5650-5925<br>RADIOLOCATION G2                                                                                                      | 5650-5830<br>Amateur                                                                                                           | RF Devices (15)<br>ISM Equipment (18)<br>Amateur Radio (97)                                 |
| 5.282 5.451 5.453 5.454 5.455                                                                                                                                                       |                                                                                              |                                                                                   |                                                                                                                                    | 5.150 5.282                                                                                                                    |                                                                                             |
| 5725-5830<br>FIXED-SATELLITE (Earth-to-space)<br>RADIOLOCATION<br>Amateur                                                                                                           | 5725-5830<br>RADIOLOCATION<br>Amateur                                                        |                                                                                   |                                                                                                                                    |                                                                                                                                |                                                                                             |
| 5.150 5.451 5.453 5.455 5.456                                                                                                                                                       | 5.150 5.453 5.455                                                                            |                                                                                   |                                                                                                                                    |                                                                                                                                |                                                                                             |
| 5830-5850<br>FIXED-SATELLITE (Earth-to-space)<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite (space-to-Earth)                                                                     | 5830-5850<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite (space-to-Earth)                  |                                                                                   |                                                                                                                                    | 5830-5850<br>Amateur<br>Amateur-satellite (space-to-Earth)                                                                     |                                                                                             |
| 5.150 5.451 5.453 5.455 5.456                                                                                                                                                       | 5.150 5.453 5.455                                                                            |                                                                                   |                                                                                                                                    | 5.150                                                                                                                          |                                                                                             |
| 5850-5925<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE                                                                                                                    | 5850-5925<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>Amateur<br>Radiolocation | 5850-5925<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>Radiolocation |                                                                                                                                    | 5850-5925<br>FIXED-SATELLITE (Earth-to-space)<br>US245<br>MOBILE NG160<br>Amateur                                              | ISM Equipment (18)<br>Private Land Mobile (90)<br>Personal Radio (95)<br>Amateur Radio (97) |
| 5.150                                                                                                                                                                               | 5.150                                                                                        | 5.150                                                                             | 5.150 US245                                                                                                                        | 5.150                                                                                                                          |                                                                                             |

| Table of Frequency Allocations                                                          |                |                | 5925-8025 MHz (SHF)                                        |                                                                                                     |                                                                                      |
|-----------------------------------------------------------------------------------------|----------------|----------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| International Table                                                                     |                |                | United States Table                                        |                                                                                                     | FCC Rule Part(s)                                                                     |
| Region 1 Table                                                                          | Region 2 Table | Region 3 Table | Federal Table                                              | Non-Federal Table                                                                                   |                                                                                      |
| 5925-6700<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B<br>MOBILE 5.457C   |                |                | 5925-6425                                                  | 5925-6425<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) NG181                                        | Satellite Communications (25)<br>Fixed Microwave (101)                               |
|                                                                                         |                |                | 6425-6525                                                  | 6425-6525<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE                                             | TV Broadcast Auxiliary (74F)<br>Cable TV Relay (78)<br>Fixed Microwave (101)         |
|                                                                                         |                |                | 5.440 5.458                                                | 5.440 5.458                                                                                         |                                                                                      |
|                                                                                         |                |                | 6525-6700                                                  | 6525-6700<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)                                              | Fixed Microwave (101)                                                                |
| 5.149 5.440 5.458                                                                       |                |                | 5.458 US342                                                | 5.458 US342                                                                                         |                                                                                      |
| 6700-7075<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441<br>MOBILE |                |                | 6700-7125                                                  | 6700-6875<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441                       | Satellite Communications (25)<br>Fixed Microwave (101)                               |
|                                                                                         |                |                |                                                            | 5.458 5.458A 5.458B                                                                                 |                                                                                      |
|                                                                                         |                |                |                                                            | 6875-7025<br>FIXED NG118<br>FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441<br>MOBILE NG171 | Satellite Communications (25)<br>TV Broadcast Auxiliary (74F)<br>Cable TV Relay (78) |
|                                                                                         |                |                |                                                            | 5.458 5.458A 5.458B                                                                                 |                                                                                      |
| 5.458 5.458A 5.458B 5.458C                                                              |                |                |                                                            | 7025-7075<br>FIXED NG118<br>FIXED-SATELLITE (Earth-to-space) NG172<br>MOBILE NG171                  | TV Broadcast Auxiliary (74F)<br>Cable TV Relay (78)                                  |
| 7075-7145<br>FIXED<br>MOBILE                                                            |                |                |                                                            | 5.458 5.458A 5.458B                                                                                 |                                                                                      |
|                                                                                         |                |                |                                                            | 7075-7125<br>FIXED NG118<br>MOBILE NG171                                                            |                                                                                      |
| 5.458                                                                                   |                |                | 5.458                                                      | 5.458                                                                                               |                                                                                      |
|                                                                                         |                |                |                                                            | 7125-7145<br>FIXED                                                                                  | 7125-7235                                                                            |
|                                                                                         |                |                |                                                            | 5.458 G116                                                                                          |                                                                                      |
|                                                                                         |                |                |                                                            | 7145-7190<br>FIXED<br>SPACE RESEARCH (deep space) (Earth-to-space) US262                            |                                                                                      |
| 5.458 G116                                                                              |                |                |                                                            |                                                                                                     |                                                                                      |
| 7190-7235<br>FIXED<br>SPACE RESEARCH (Earth-to-space) G133                              |                |                | 7190-7235<br>FIXED<br>SPACE RESEARCH (Earth-to-space) G133 |                                                                                                     |                                                                                      |
|                                                                                         |                |                |                                                            | 5.458 G134                                                                                          | 5.458 US262                                                                          |
| 5.458 5.459                                                                             |                |                |                                                            |                                                                                                     |                                                                                      |

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|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|
| 7235-7250<br>FIXED<br>MOBILE                                                                                                             | 7235-7250<br>FIXED                                                                                                                          | 7235-7250 |  |
| 5.458                                                                                                                                    | 5.458                                                                                                                                       | 5.458     |  |
| 7250-7300<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE                                                                         | 7250-7300<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)<br>Fixed                                                 | 7250-8025 |  |
| 5.461                                                                                                                                    | G117                                                                                                                                        |           |  |
| 7300-7450<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile                                              | 7300-7450<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>Mobile-satellite (space-to-Earth)                                                 |           |  |
| 5.461                                                                                                                                    | G117                                                                                                                                        |           |  |
| 7450-7550<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>METEOROLOGICAL-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile | 7450-7550<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>METEOROLOGICAL-SATELLITE<br>(space-to-Earth)<br>Mobile-satellite (space-to-Earth) |           |  |
| 5.461A                                                                                                                                   | G104 G117                                                                                                                                   |           |  |
| 7550-7750<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile                                              | 7550-7750<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>Mobile-satellite (space-to-Earth)                                                 |           |  |
|                                                                                                                                          | G117                                                                                                                                        |           |  |
| 7750-7850<br>FIXED<br>METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B<br>MOBILE except aeronautical mobile                              | 7750-7850<br>FIXED<br>METEOROLOGICAL-SATELLITE<br>(space-to-Earth)                                                                          |           |  |
|                                                                                                                                          | 5.461B                                                                                                                                      |           |  |
| 7850-7900<br>FIXED<br>MOBILE except aeronautical mobile                                                                                  | 7850-7900<br>FIXED                                                                                                                          |           |  |
| 7900-8025<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE                                                                         | 7900-8025<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE-SATELLITE (Earth-to-space)<br>Fixed                                                 |           |  |
| 5.461                                                                                                                                    | G117                                                                                                                                        |           |  |

| Table of Frequency Allocations                                                                                                                                      |                |                | 8025-10000 MHz (SHF)                                                                                                                                                                                                 |                                                                                               |                          |
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| International Table                                                                                                                                                 |                |                | United States Table                                                                                                                                                                                                  |                                                                                               | FCC Rule Part(s)         |
| Region 1 Table                                                                                                                                                      | Region 2 Table | Region 3 Table | Federal Table                                                                                                                                                                                                        | Non-Federal Table                                                                             |                          |
| 8025-8175<br>EARTH EXPLORATION-SATELLITE (space-to-Earth)<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE 5.463                                              |                |                | 8025-8175<br>EARTH EXPLORATION-SATELLITE (space-to-Earth)<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>Mobile-satellite (Earth-to-space) (no airborne transmissions)                                              | 8025-8400                                                                                     |                          |
| 5.462A                                                                                                                                                              |                |                | US258 G117                                                                                                                                                                                                           |                                                                                               |                          |
| 8175-8215<br>EARTH EXPLORATION-SATELLITE (space-to-Earth)<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>METEOROLOGICAL-SATELLITE (Earth-to-space)<br>MOBILE 5.463 |                |                | 8175-8215<br>EARTH EXPLORATION-SATELLITE (space-to-Earth)<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>METEOROLOGICAL-SATELLITE (Earth-to-space)<br>Mobile-satellite (Earth-to-space) (no airborne transmissions) |                                                                                               |                          |
| 5.462A                                                                                                                                                              |                |                | US258 G104 G117                                                                                                                                                                                                      |                                                                                               |                          |
| 8215-8400<br>EARTH EXPLORATION-SATELLITE (space-to-Earth)<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE 5.463                                              |                |                | 8215-8400<br>EARTH EXPLORATION-SATELLITE (space-to-Earth)<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>Mobile-satellite (Earth-to-space) (no airborne transmissions)                                              |                                                                                               |                          |
| 5.462A                                                                                                                                                              |                |                | US258 G117                                                                                                                                                                                                           | US258                                                                                         |                          |
| 8400-8500<br>FIXED<br>MOBILE except aeronautical mobile<br>SPACE RESEARCH (space-to-Earth) 5.465 5.466                                                              |                |                | 8400-8450<br>FIXED<br>SPACE RESEARCH (deep space) (space-to-Earth)                                                                                                                                                   | 8400-8450<br>Space research (deep space) (space-to-Earth)                                     |                          |
|                                                                                                                                                                     |                |                | 8450-8500<br>FIXED<br>SPACE RESEARCH (space-to-Earth)                                                                                                                                                                | 8450-8500<br>SPACE RESEARCH (space-to-Earth)                                                  |                          |
| 8500-8550<br>RADIOLOCATION                                                                                                                                          |                |                | 8500-8550<br>RADIOLOCATION G59                                                                                                                                                                                       | 8500-8550<br>Radiolocation                                                                    | Private Land Mobile (90) |
| 5.468 5.469                                                                                                                                                         |                |                |                                                                                                                                                                                                                      |                                                                                               |                          |
| 8550-8650<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH (active)                                                                       |                |                | 8550-8650<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION G59<br>SPACE RESEARCH (active)                                                                                                                    | 8550-8650<br>Earth exploration-satellite (active)<br>Radiolocation<br>Space research (active) |                          |
| 5.468 5.469 5.469A                                                                                                                                                  |                |                |                                                                                                                                                                                                                      |                                                                                               |                          |

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| 8650-8750<br>RADIOLOCATION<br><br>5.468 5.469                                                                    | 8650-9000<br>RADIOLOCATION G59                                                                   | 8650-9000<br>Radiolocation                                                                    | Aviation (87)<br>Private Land Mobile (90)                  |
| 8750-8850<br>RADIOLOCATION<br>AERONAUTICAL RADIONAVIGATION 5.470                                                 |                                                                                                  |                                                                                               |                                                            |
| 5.471                                                                                                            |                                                                                                  |                                                                                               |                                                            |
| 8850-9000<br>RADIOLOCATION<br>MARITIME RADIONAVIGATION 5.472                                                     |                                                                                                  |                                                                                               |                                                            |
| 5.473                                                                                                            | US53                                                                                             | US53                                                                                          |                                                            |
| 9000-9200<br>AERONAUTICAL RADIONAVIGATION 5.337<br>RADIOLOCATION                                                 | 9000-9200<br>AERONAUTICAL<br>RADIONAVIGATION 5.337<br>Radiolocation G2                           | 9000-9200<br>AERONAUTICAL<br>RADIONAVIGATION 5.337<br>Radiolocation                           |                                                            |
| 5.471 5.473A                                                                                                     | US48 G19                                                                                         | US48                                                                                          |                                                            |
| 9200-9300<br>RADIOLOCATION<br>MARITIME RADIONAVIGATION 5.472                                                     | 9200-9300<br>MARITIME RADIONAVIGATION<br>5.472<br>Radiolocation US110 G59                        | 9200-9300<br>MARITIME RADIONAVIGATION<br>5.472<br>Radiolocation US110                         | Maritime (80)<br>Private Land Mobile (90)                  |
| 5.473 5.474                                                                                                      | 5.474                                                                                            | 5.474                                                                                         |                                                            |
| 9300-9500<br>EARTH EXPLORATION-SATELLITE (active)<br>SPACE RESEARCH (active)<br>RADIOLOCATION<br>RADIONAVIGATION | 9300-9500<br>RADIONAVIGATION US66<br>Radiolocation US51 G56<br>Meteorological aids               | 9300-9500<br>RADIONAVIGATION US66<br>Radiolocation US51<br>Meteorological aids                | Maritime (80)<br>Aviation (87)<br>Private Land Mobile (90) |
| 5.427 5.474 5.475 5.475A 5.475B 5.476A                                                                           | 5.427 5.474 US67 US71                                                                            | 5.427 5.474 US67 US71                                                                         |                                                            |
| 9500-9800<br>EARTH EXPLORATION-SATELLITE (active)<br>SPACE RESEARCH (active)<br>RADIOLOCATION<br>RADIONAVIGATION | 9500-9800<br>EARTH EXPLORATION-SATELLITE<br>(active)<br>SPACE RESEARCH (active)<br>RADIOLOCATION | 9500-9800<br>Earth exploration-satellite (active)<br>Space research (active)<br>Radiolocation | Private Land Mobile (90)                                   |
| 5.476A                                                                                                           |                                                                                                  |                                                                                               |                                                            |
| 9800-9900<br>RADIOLOCATION<br>Earth exploration-satellite (active)<br>Space research (active)<br>Fixed           | 9800-10000<br>RADIOLOCATION                                                                      | 9800-10000<br>Radiolocation                                                                   |                                                            |
| 5.477 5.478 5.478A 5.478B                                                                                        |                                                                                                  |                                                                                               |                                                            |
| 9900-10000<br>RADIOLOCATION<br>Fixed                                                                             |                                                                                                  |                                                                                               |                                                            |
| 5.477 5.478 5.479                                                                                                | 5.479                                                                                            | 5.479                                                                                         |                                                            |

| Table of Frequency Allocations                                                                                                                                                          |                                                                                                                      |                                                                                                                             | 10-14 GHz (SHF)                                                                                                        |                                                                                                                       |                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| International Table                                                                                                                                                                     |                                                                                                                      |                                                                                                                             | United States Table                                                                                                    |                                                                                                                       | FCC Rule Part(s)                                       |
| Region 1 Table                                                                                                                                                                          | Region 2 Table                                                                                                       | Region 3 Table                                                                                                              | Federal Table                                                                                                          | Non-Federal Table                                                                                                     |                                                        |
| 10-10.45<br>FIXED<br>MOBILE<br>RADIOLOCATION<br>Amateur<br>5.479                                                                                                                        | 10-10.45<br>RADIOLOCATION<br>Amateur<br><br>5.479 5.480                                                              | 10-10.45<br>FIXED<br>MOBILE<br>RADIOLOCATION<br>Amateur<br>5.479                                                            | 10-10.5<br>RADIOLOCATIONUS108 G32<br><br><br><br><br>5.479 US128                                                       | 10-10.45<br>Amateur<br>Radiolocation US108<br><br>5.479 US128 NG50                                                    | Private Land Mobile (90)<br>Amateur Radio (97)         |
| 10.45-10.5<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>5.481                                                                                                                    |                                                                                                                      |                                                                                                                             |                                                                                                                        | 10.45-10.5<br>Amateur<br>Amateur-satellite<br>Radiolocation US108<br>US128 NG50                                       |                                                        |
| 10.5-10.55<br>FIXED<br>MOBILE<br>Radiolocation                                                                                                                                          |                                                                                                                      |                                                                                                                             |                                                                                                                        | 10.5-10.55<br>RADIOLOCATION US59                                                                                      |                                                        |
| 10.55-10.6<br>FIXED<br>MOBILE except aeronautical mobile<br>Radiolocation                                                                                                               | 10.5-10.55<br>FIXED<br>MOBILE<br>RADIOLOCATION                                                                       |                                                                                                                             | 10.55-10.6                                                                                                             | 10.55-10.6<br>FIXED                                                                                                   | Fixed Microwave (101)                                  |
| 10.6-10.68<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE except aeronautical mobile<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>Radiolocation<br>5.149 5.482 5.482A |                                                                                                                      |                                                                                                                             | 10.6-10.68<br>EARTH EXPLORATION-<br>SATELLITE (passive)<br>SPACE RESEARCH (passive)<br><br>US130 US131 US265           | 10.6-10.68<br>EARTH EXPLORATION-<br>SATELLITE (passive)<br>FIXED US265<br>SPACE RESEARCH (passive)<br><br>US130 US131 |                                                        |
| 10.68-10.7<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340 5.483                                                                       |                                                                                                                      |                                                                                                                             | 10.68-10.7<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>US131 US246 |                                                                                                                       |                                                        |
| 10.7-11.7<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484<br>MOBILE except aeronautical mobile                                                         | 10.7-11.7<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.441 5.484A<br>MOBILE except aeronautical mobile             |                                                                                                                             | 10.7-11.7<br><br><br>US131 US211                                                                                       | 10.7-11.7<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.441 US131 US211<br>NG52                                      | Satellite Communications (25)<br>Fixed Microwave (101) |
| 11.7-12.5<br>FIXED<br>MOBILE except aeronautical mobile<br>BROADCASTING<br>BROADCASTING-SATELLITE 5.492                                                                                 | 11.7-12.1<br>FIXED 5.486<br>FIXED-SATELLITE (space-to-Earth) 5.484A 5.488<br>Mobile except aeronautical mobile 5.485 | 11.7-12.2<br>FIXED<br>MOBILE except aeronautical mobile<br>BROADCASTING<br>BROADCASTING-SATELLITE 5.492<br><br>5.487 5.487A | 11.7-12.2                                                                                                              | 11.7-12.2<br>FIXED-SATELLITE (space-to-Earth) 5.485 5.488 NG143<br>NG183 NG187                                        | Satellite Communications (25)                          |
|                                                                                                                                                                                         | 12.1-12.2<br>FIXED-SATELLITE (space-to-Earth) 5.484A 5.488<br>5.485 5.489                                            |                                                                                                                             |                                                                                                                        |                                                                                                                       |                                                        |

|                                                                                                                                                                                                                    |                                                                                                                    |                                                                                                                                     |                                                                                                                                                                             |                                                                                                                                                        |                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 5.487 5.487A                                                                                                                                                                                                       | 12.2-12.7<br>FIXED<br>MOBILE except aeronautical mobile<br>BROADCASTING<br>BROADCASTING-SATELLITE 5.492            | 12.2-12.5<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE except aeronautical mobile<br>BROADCASTING<br>5.484A 5.487         | 12.2-12.75                                                                                                                                                                  | 12.2-12.7<br>FIXED<br>BROADCASTING-SATELLITE                                                                                                           | Satellite Communications (25)<br>Fixed Microwave (101)                                                        |
| 12.5-12.75<br>FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space)                                                                                                                                             | 5.487A 5.488 5.490<br>12.7-12.75<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE except aeronautical mobile | 12.5-12.75<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.484A<br>MOBILE except aeronautical mobile<br>BROADCASTING-SATELLITE 5.493 |                                                                                                                                                                             | 5.487A 5.488 5.490<br>12.7-12.75<br>FIXED NG118<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE                                                          | TV Broadcast Auxiliary (74F)<br>Cable TV Relay (78)<br>Fixed Microwave (101)                                  |
| 5.494 5.495 5.496<br>12.75-13.25<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.441<br>MOBILE<br>Space research (deep space) (space-to-Earth)                                                                      |                                                                                                                    |                                                                                                                                     | 12.75-13.25<br><br>US251                                                                                                                                                    | 12.75-13.25<br>FIXED NG118<br>FIXED-SATELLITE (Earth-to-space) 5.441 NG52<br>MOBILE<br>US251 NG53                                                      | Satellite Communications (25)<br>TV Broadcast Auxiliary (74F)<br>Cable TV Relay (78)<br>Fixed Microwave (101) |
| 13.25-13.4<br>EARTH EXPLORATION-SATELLITE (active)<br>AERONAUTICAL RADIONAVIGATION 5.497<br>SPACE RESEARCH (active)                                                                                                |                                                                                                                    |                                                                                                                                     | 13.25-13.4<br>EARTH EXPLORATION-SATELLITE (active)<br>AERONAUTICAL RADIONAVIGATION 5.497<br>SPACE RESEARCH (active)<br>5.498A                                               | 13.25-13.4<br>AERONAUTICAL RADIONAVIGATION 5.497<br>Earth exploration-satellite (active)<br>Space research (active)                                    | Aviation (87)                                                                                                 |
| 5.498A 5.499<br>13.4-13.75<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH 5.501A<br>Standard frequency and time signal-satellite (Earth-to-space)                                      |                                                                                                                    |                                                                                                                                     | 13.4-13.75<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION G59<br>SPACE RESEARCH 5.501A<br>Standard frequency and time signal-satellite (Earth-to-space)<br>5.501B | 13.4-13.75<br>Earth exploration-satellite (active)<br>Radiolocation<br>Space research<br>Standard frequency and time signal-satellite (Earth-to-space) | Private Land Mobile (90)                                                                                      |
| 5.499 5.500 5.501 5.501B<br>13.75-14<br>FIXED-SATELLITE (Earth-to-space) 5.484A<br>RADIOLOCATION<br>Earth exploration-satellite<br>Standard frequency and time signal-satellite (Earth-to-space)<br>Space research |                                                                                                                    |                                                                                                                                     | 13.75-14<br>RADIOLOCATION G59<br>Standard frequency and time signal-satellite (Earth-to-space)<br>Space research US337                                                      | 13.75-14<br>FIXED-SATELLITE (Earth-to-space) US337<br>Standard frequency and time signal-satellite (Earth-to-space)<br>Space research<br>Radiolocation | Satellite Communications (25)<br>Private Land Mobile (90)                                                     |
| 5.499 5.500 5.501 5.502 5.503                                                                                                                                                                                      |                                                                                                                    |                                                                                                                                     | US356 US357                                                                                                                                                                 | US356 US357                                                                                                                                            |                                                                                                               |

Table of Frequency Allocations

14-17.7 GHz (SHF)

| International Table                                                                                                                                                                                                                   |                                                                                                                                                                   |                                                                                                                                                                                                                               | United States Table                                                                                    |                                                                                                                                  | FCC Rule Part(s)                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Region 1 Table                                                                                                                                                                                                                        | Region 2 Table                                                                                                                                                    | Region 3 Table                                                                                                                                                                                                                | Federal Table                                                                                          | Non-Federal Table                                                                                                                |                                  |
| 14-14.25<br>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B<br>RADIONAVIGATION 5.504<br>Mobile-satellite (Earth-to-space) 5.504B 5.504C 5.506A<br>Space research<br>5.504A 5.505                                   |                                                                                                                                                                   |                                                                                                                                                                                                                               | 14-14.2<br>Space research US133                                                                        | 14-14.2<br>FIXED-SATELLITE (Earth-to-space)<br>NG54 NG183 NG187<br>Mobile-satellite (Earth-to-space)<br>Space research<br>US133  | Satellite Communications<br>(25) |
| 14.25-14.3<br>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B<br>RADIONAVIGATION 5.504<br>Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.508A<br>Space research<br>5.504A 5.505 5.508                           |                                                                                                                                                                   |                                                                                                                                                                                                                               | 14.2-14.4                                                                                              | 14.2-14.47<br>FIXED-SATELLITE (Earth-to-space)<br>NG54 NG183 NG187<br>Mobile-satellite (Earth-to-space)                          |                                  |
| 14.3-14.4<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>5.457A 5.457B 5.484A 5.506 5.506B<br>MOBILE except aeronautical mobile<br>Mobile-satellite (Earth-to-space) 5.504B<br>5.506A 5.509A<br>Radionavigation-satellite<br>5.504A  | 14.3-14.4<br>FIXED-SATELLITE (Earth-to-space)<br>5.457A 5.484A 5.506 5.506B<br>Mobile-satellite (Earth-to-space)<br>5.506A<br>Radionavigation-satellite<br>5.504A | 14.3-14.4<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>5.457A 5.484A 5.506 5.506B<br>MOBILE except aeronautical mobile<br>Mobile-satellite (Earth-to-space)<br>5.504B 5.506A 5.509A<br>Radionavigation-satellite<br>5.504A |                                                                                                        |                                                                                                                                  |                                  |
| 14.4-14.47<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B<br>MOBILE except aeronautical mobile<br>Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A<br>Space research (space-to-Earth)<br>5.504A |                                                                                                                                                                   |                                                                                                                                                                                                                               | 14.4-14.47<br>Fixed<br>Mobile                                                                          |                                                                                                                                  |                                  |
| 14.47-14.5<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B<br>MOBILE except aeronautical mobile<br>Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A<br>Radio astronomy<br>5.149 5.504A           |                                                                                                                                                                   |                                                                                                                                                                                                                               | 14.47-14.5<br>Fixed<br>Mobile<br><br>US133 US203 US342                                                 | 14.47-14.5<br>FIXED-SATELLITE (Earth-to-space)<br>NG54 NG183 NG187<br>Mobile-satellite (Earth-to-space)<br><br>US133 US203 US342 |                                  |
| 14.5-14.8<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.510<br>MOBILE<br>Space research                                                                                                                                              |                                                                                                                                                                   |                                                                                                                                                                                                                               | 14.5-14.7145<br>FIXED<br>Mobile<br>Space research<br>14.7145-14.8<br>MOBILE<br>Fixed<br>Space research | 14.5-14.8                                                                                                                        |                                  |
| 14.8-15.35<br>FIXED<br>MOBILE<br>Space research                                                                                                                                                                                       |                                                                                                                                                                   |                                                                                                                                                                                                                               | 14.8-15.1365<br>MOBILE<br>SPACE RESEARCH<br>Fixed<br>US310                                             | 14.8-15.1365<br><br>US310                                                                                                        |                                  |

|                                                                                                           |                                                                                                   |                                                                         |                                                                                                         |                                                                                                 |                                                   |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------|
|                                                                                                           |                                                                                                   |                                                                         | 15.1365-15.35<br>FIXED<br>SPACE RESEARCH<br>Mobile                                                      | 15.1365-15.35                                                                                   |                                                   |
| 5.339                                                                                                     |                                                                                                   |                                                                         | 5.339 US211                                                                                             | 5.339 US211                                                                                     |                                                   |
| 15.35-15.4<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)        |                                                                                                   |                                                                         | 15.35-15.4<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive) |                                                                                                 |                                                   |
| 5.340 5.511                                                                                               |                                                                                                   |                                                                         | US246                                                                                                   |                                                                                                 |                                                   |
| 15.4-15.43<br>AERONAUTICAL RADIONAVIGATION                                                                |                                                                                                   |                                                                         | 15.4-15.43<br>AERONAUTICAL RADIONAVIGATION US260                                                        |                                                                                                 | Aviation (87)                                     |
| 5.511D                                                                                                    |                                                                                                   |                                                                         | US211                                                                                                   |                                                                                                 |                                                   |
| 15.43-15.63<br>FIXED-SATELLITE (Earth-to-space) 5.511A<br>AERONAUTICAL RADIONAVIGATION                    |                                                                                                   |                                                                         | 15.43-15.63<br>AERONAUTICAL<br>RADIONAVIGATION US260                                                    | 15.43-15.63<br>FIXED-SATELLITE (Earth-to-space)<br>AERONAUTICAL<br>RADIONAVIGATION US260        | Satellite Communications<br>(25)<br>Aviation (87) |
| 5.511C                                                                                                    |                                                                                                   |                                                                         | 5.511C US211 US359                                                                                      | 5.511C US211 US359                                                                              |                                                   |
| 15.63-15.7<br>AERONAUTICAL RADIONAVIGATION                                                                |                                                                                                   |                                                                         | 15.63-15.7<br>AERONAUTICAL RADIONAVIGATION US260                                                        |                                                                                                 | Aviation (87)                                     |
| 5.511D                                                                                                    |                                                                                                   |                                                                         | US211                                                                                                   |                                                                                                 |                                                   |
| 15.7-16.6<br>RADIOLOCATION                                                                                |                                                                                                   |                                                                         | 15.7-16.6<br>RADIOLOCATION G59                                                                          | 15.7-17.2<br>Radiolocation                                                                      | Private Land Mobile (90)                          |
| 5.512 5.513                                                                                               |                                                                                                   |                                                                         |                                                                                                         |                                                                                                 |                                                   |
| 16.6-17.1<br>RADIOLOCATION<br>Space research (deep space) (Earth-to-space)                                |                                                                                                   |                                                                         | 16.6-17.1<br>RADIOLOCATION G59<br>Space research (deep space)<br>(Earth-to-space)                       |                                                                                                 |                                                   |
| 5.512 5.513                                                                                               |                                                                                                   |                                                                         |                                                                                                         |                                                                                                 |                                                   |
| 17.1-17.2<br>RADIOLOCATION                                                                                |                                                                                                   |                                                                         | 17.1-17.2<br>RADIOLOCATION G59                                                                          |                                                                                                 |                                                   |
| 5.512 5.513                                                                                               |                                                                                                   |                                                                         |                                                                                                         |                                                                                                 |                                                   |
| 17.2-17.3<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH (active)             |                                                                                                   |                                                                         | 17.2-17.3<br>EARTH EXPLORATION-<br>SATELLITE (active)<br>RADIOLOCATION G59<br>SPACE RESEARCH (active)   | 17.2-17.3<br>Earth exploration-satellite (active)<br>Radiolocation<br>Space research (active)   |                                                   |
| 5.512 5.513 5.513A                                                                                        |                                                                                                   |                                                                         |                                                                                                         |                                                                                                 |                                                   |
| 17.3-17.7<br>FIXED-SATELLITE (Earth-to-space)<br>5.516 (space-to-Earth) 5.516A<br>5.516B<br>Radiolocation | 17.3-17.7<br>FIXED-SATELLITE (Earth-to-space)<br>5.516<br>BROADCASTING-SATELLITE<br>Radiolocation | 17.3-17.7<br>FIXED-SATELLITE (Earth-to-space)<br>5.516<br>Radiolocation | 17.3-17.7<br>Radiolocation US259 G59                                                                    | 17.3-17.7<br>FIXED-SATELLITE (Earth-to-space)<br>US271<br>BROADCASTING-SATELLITE<br>US402 NG163 | Satellite Communications<br>(25)                  |
| 5.514                                                                                                     | 5.514 5.515                                                                                       | 5.514                                                                   | US402 G117                                                                                              | US259                                                                                           |                                                   |

Table of Frequency Allocations

17.7-23.6 GHz (SHF)

| International Table                                                                                                                                                                                        |                                                                                                                                                                                                                                                   |                                                                                                                                                                                      | United States Table                                                                                                                              |                                                                                                                                                            | FCC Rule Part(s)                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Region 1 Table                                                                                                                                                                                             | Region 2 Table                                                                                                                                                                                                                                    | Region 3 Table                                                                                                                                                                       | Federal Table                                                                                                                                    | Non-Federal Table                                                                                                                                          |                                                                                                                             |
| 17.7-18.1<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>5.484A (Earth-to-space) 5.516<br>MOBILE                                                                                                          | 17.7-17.8<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>5.517 (Earth-to-space) 5.516<br>BROADCASTING-SATELLITE<br>Mobile<br>5.515<br>17.8-18.1<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>5.484A (Earth-to-space) 5.516<br>MOBILE<br>5.519 | 17.7-18.1<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>5.484A (Earth-to-space) 5.516<br>MOBILE                                                                                    | 17.7-17.8<br><br><br><br><br><br><br>US401 G117                                                                                                  | 17.7-17.8<br>FIXED NG144<br>FIXED-SATELLITE (Earth-to-space)<br>US271<br><br><br>US401                                                                     | Satellite<br>Communications (25)<br>TV Broadcast Auxiliary<br>(74F)<br>Cable TV Relay (78)<br>Fixed Microwave (101)         |
|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                   |                                                                                                                                                                                      | 17.8-18.3<br>FIXED-SATELLITE (space-to-Earth) US334 G117                                                                                         | 17.8-18.3<br>FIXED NG144                                                                                                                                   |                                                                                                                             |
| 18.1-18.4<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520<br>MOBILE<br><br>5.519 5.521<br>18.4-18.6<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B<br>MOBILE |                                                                                                                                                                                                                                                   |                                                                                                                                                                                      | US519<br><br>18.3-18.6<br>FIXED-SATELLITE (space-to-Earth) US334 G117                                                                            | US334 US519<br><br>18.3-18.6<br>FIXED-SATELLITE (space-to-Earth)<br>NG164<br><br><br>US334 NG144                                                           | TV Broadcast Auxiliary<br>(74F)<br>Cable TV Relay (78)<br>Fixed Microwave (101)<br><br><br>Satellite<br>Communications (25) |
| 18.6-18.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>5.522B<br>MOBILE except aeronautical mobile<br>Space research (passive)<br>5.522A 5.522C                | 18.6-18.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>5.516B 5.522B<br>MOBILE except aeronautical mobile<br>SPACE RESEARCH (passive)<br>5.522A                                                       | 18.6-18.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>5.522B<br>MOBILE except aeronautical mobile<br>Space research (passive)<br>5.522A | 18.6-18.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED-SATELLITE (space-to-Earth) US255 US334 G117<br>SPACE RESEARCH (passive)<br><br>US254 | 18.6-18.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED-SATELLITE (space-to-Earth)<br>US255 NG164<br>SPACE RESEARCH (passive)<br><br>US254 US334 NG144 |                                                                                                                             |
| 18.8-19.3<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.516B 5.523A<br>MOBILE                                                                                                                             |                                                                                                                                                                                                                                                   |                                                                                                                                                                                      | 18.8-20.2<br>FIXED-SATELLITE (space-to-Earth) US334 G117                                                                                         | 18.8-19.3<br>FIXED-SATELLITE (space-to-Earth)<br>NG165<br>US334 NG144                                                                                      | Satellite<br>Communications (25)<br>TV Broadcast Auxiliary (74F)<br>Cable TV Relay (78)<br>Fixed Microwave (101)            |
| 19.3-19.7<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E<br>MOBILE                                                                                              |                                                                                                                                                                                                                                                   |                                                                                                                                                                                      |                                                                                                                                                  | 19.3-19.7<br>FIXED NG144<br>FIXED-SATELLITE (space-to-Earth)<br>NG166<br>US334                                                                             |                                                                                                                             |
| 19.7-20.1<br>FIXED-SATELLITE (space-to-Earth)<br>5.484A 5.516B<br>Mobile-satellite (space-to-Earth)<br><br>5.524                                                                                           | 19.7-20.1<br>FIXED-SATELLITE (space-to-Earth)<br>5.484A 5.516B<br>MOBILE-SATELLITE (space-to-Earth)<br><br>5.524 5.525 5.526 5.527 5.528 5.529                                                                                                    | 19.7-20.1<br>FIXED-SATELLITE (space-to-Earth)<br>5.484A 5.516B<br>Mobile-satellite (space-to-Earth)<br><br>5.524                                                                     |                                                                                                                                                  | 19.7-20.2<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)                                                                         | Satellite<br>Communications (25)                                                                                            |

|                                                                                                                                                           |                            |                                                                                   |                                                                                                                                                                     |                                                                               |                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------|
| 20.1-20.2<br>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B<br>MOBILE-SATELLITE (space-to-Earth)<br>5.524 5.525 5.526 5.527 5.528                         |                            |                                                                                   |                                                                                                                                                                     | 5.525 5.526 5.527 5.528<br>5.529US334                                         |                                                           |
| 20.2-21.2<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)<br>Standard frequency and time signal-satellite (space-to-Earth)       |                            |                                                                                   | 20.2-21.2<br>FIXED-SATELLITE<br>(space-to-Earth)<br>MOBILE-SATELLITE<br>(space-to-Earth)<br>Standard frequency and time<br>signal-satellite (space-to-Earth)        | 20.2-21.2<br>Standard frequency and time<br>signal-satellite (space-to-Earth) |                                                           |
| 5.524<br>21.2-21.4<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE<br>SPACE RESEARCH (passive)                                                |                            |                                                                                   | G117<br>21.2-21.4<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE<br>SPACE RESEARCH (passive)<br>US263                                                  |                                                                               | Fixed Microwave (101)                                     |
| 21.4-22<br>FIXED<br>MOBILE<br>BROADCASTING-SATELLITE<br>5.208B 5.530                                                                                      | 21.4-22<br>FIXED<br>MOBILE | 21.4-22<br>FIXED<br>MOBILE<br>BROADCASTING-SATELLITE<br>5.208B 5.530<br><br>5.531 | 21.4-22<br>FIXED<br>MOBILE                                                                                                                                          |                                                                               |                                                           |
| 22-22.21<br>FIXED<br>MOBILE except aeronautical mobile                                                                                                    |                            |                                                                                   | 22-22.21<br>FIXED<br>MOBILE except aeronautical mobile<br><br>US342                                                                                                 |                                                                               |                                                           |
| 5.149<br>22.21-22.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE except aeronautical mobile<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) |                            |                                                                                   | 22.21-22.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE except aeronautical mobile<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br><br>US263 US342 |                                                                               | Satellite<br>Communications (25)<br>Fixed Microwave (101) |
| 5.149 5.532<br>22.5-22.55<br>FIXED<br>MOBILE                                                                                                              |                            |                                                                                   | 22.5-22.55<br>FIXED<br>MOBILE<br><br>US211                                                                                                                          |                                                                               |                                                           |
| 22.55-23.55<br>FIXED<br>INTER-SATELLITE 5.338A<br>MOBILE                                                                                                  |                            |                                                                                   | 22.55-23.55<br>FIXED<br>INTER-SATELLITE US278<br>MOBILE                                                                                                             |                                                                               |                                                           |
| 5.149<br>23.55-23.6<br>FIXED<br>MOBILE                                                                                                                    |                            |                                                                                   | US342<br>23.55-23.6<br>FIXED<br>MOBILE                                                                                                                              |                                                                               | Fixed Microwave (101)                                     |

| Table of Frequency Allocations                                                                                          |                                                                               |                                                                               | 23.6-30 GHz (SHF)                                                                                                          |                                                                                                         | FCC Rule Part(s)                                                     |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| International Table                                                                                                     |                                                                               |                                                                               | United States Table                                                                                                        |                                                                                                         |                                                                      |
| Region 1 Table                                                                                                          | Region 2 Table                                                                | Region 3 Table                                                                | Federal Table                                                                                                              | Non-Federal Table                                                                                       |                                                                      |
| 23.6-24<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340                |                                                                               |                                                                               | 23.6-24<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>US246              |                                                                                                         |                                                                      |
| 24-24.05<br>AMATEUR<br>AMATEUR-SATELLITE<br>5.150                                                                       |                                                                               |                                                                               | 24-24.05                                                                                                                   | 24-24.05<br>AMATEUR<br>AMATEUR-SATELLITE<br>5.150 US211                                                 | ISM Equipment (18)<br>Amateur Radio (97)                             |
| 24.05-24.25<br>RADIOLOCATION<br>Amateur<br>Earth exploration-satellite (active)<br>5.150                                |                                                                               |                                                                               | 24.05-24.25<br>RADIOLOCATION G59<br>Earth exploration-satellite (active)<br>5.150                                          | 24.05-24.25<br>Amateur<br>Earth exploration-satellite (active)<br>Radiolocation<br>5.150                | ISM Equipment (18)<br>Private Land Mobile (90)<br>Amateur Radio (97) |
| 24.25-24.45<br>FIXED                                                                                                    | 24.25-24.45<br>RADIONAVIGATION                                                | 24.25-24.45<br>RADIONAVIGATION<br>FIXED<br>MOBILE                             | 24.25-24.45                                                                                                                | 24.25-24.45<br>FIXED                                                                                    | Fixed Microwave (101)                                                |
| 24.45-24.75<br>FIXED<br>INTER-SATELLITE                                                                                 | 24.45-24.65<br>INTER-SATELLITE<br>RADIONAVIGATION<br><br>5.533                | 24.45-24.65<br>FIXED<br>INTER-SATELLITE<br>MOBILE<br>RADIONAVIGATION<br>5.533 | 24.45-24.65<br>INTER-SATELLITE<br>RADIONAVIGATION<br><br>5.533                                                             |                                                                                                         | Satellite Communications (25)                                        |
|                                                                                                                         | 24.65-24.75<br>INTER-SATELLITE<br>RADIOLOCATION-SATELLITE<br>(Earth-to-space) | 24.65-24.75<br>FIXED<br>INTER-SATELLITE<br>MOBILE<br>5.533                    | 24.65-24.75<br>INTER-SATELLITE<br>RADIOLOCATION-SATELLITE (Earth-to-space)                                                 |                                                                                                         |                                                                      |
| 24.75-25.25<br>FIXED                                                                                                    | 24.75-25.25<br>FIXED-SATELLITE<br>(Earth-to-space) 5.535                      | 24.75-25.25<br>FIXED<br>FIXED-SATELLITE<br>(Earth-to-space) 5.535<br>MOBILE   | 24.75-25.05<br>RADIONAVIGATION                                                                                             | 24.75-25.05<br>FIXED-SATELLITE<br>(Earth-to-space) NG167<br>RADIONAVIGATION                             | Satellite Communications (25)<br>Aviation (87)                       |
|                                                                                                                         |                                                                               |                                                                               | 25.05-25.25                                                                                                                | 25.05-25.25<br>FIXED<br>FIXED-SATELLITE<br>(Earth-to-space) NG167                                       | Satellite Communications (25)<br>Fixed Microwave (101)               |
| 25.25-25.5<br>FIXED<br>INTER-SATELLITE 5.536<br>MOBILE<br>Standard frequency and time signal-satellite (Earth-to-space) |                                                                               |                                                                               | 25.25-25.5<br>FIXED<br>INTER-SATELLITE 5.536<br>MOBILE<br>Standard frequency and time<br>signal-satellite (Earth-to-space) | 25.25-25.5<br>Inter-satellite 5.536<br>Standard frequency and time<br>signal-satellite (Earth-to-space) |                                                                      |

|                                                                                                                                                                                                                       |                                                                                                                                                                                                     |                                                                                                                                                                             |                                                                                                                                                                                                         |                                                                                                   |                                                        |
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| 25.5-27<br>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.536B<br>FIXED<br>INTER-SATELLITE 5.536<br>MOBILE<br>SPACE RESEARCH (space-to-Earth) 5.536C<br>Standard frequency and time signal-satellite (Earth-to-space) |                                                                                                                                                                                                     |                                                                                                                                                                             | 25.5-27<br>EARTH EXPLORATION-SATELLITE (space-to-Earth)<br>FIXED<br>INTER-SATELLITE 5.536<br>MOBILE<br>SPACE RESEARCH (space-to-Earth)<br>Standard frequency and time signal-satellite (Earth-to-space) | 25.5-27<br>Inter-satellite 5.536<br>Standard frequency and time signal-satellite (Earth-to-space) |                                                        |
| 5.536A                                                                                                                                                                                                                |                                                                                                                                                                                                     |                                                                                                                                                                             | 5.536A US258                                                                                                                                                                                            | 5.536A US258                                                                                      |                                                        |
| 27-27.5<br>FIXED<br>INTER-SATELLITE 5.536<br>MOBILE                                                                                                                                                                   | 27-27.5<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>INTER-SATELLITE 5.536 5.537<br>MOBILE                                                                                                       |                                                                                                                                                                             | 27-27.5<br>FIXED<br>INTER-SATELLITE 5.536<br>MOBILE                                                                                                                                                     | 27-27.5<br>Inter-satellite 5.536                                                                  |                                                        |
| 27.5-28.5<br>FIXED 5.537A<br>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539<br>MOBILE                                                                                                                           |                                                                                                                                                                                                     |                                                                                                                                                                             | 27.5-30                                                                                                                                                                                                 | 27.5-29.5<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE                                  | Satellite Communications (25)<br>Fixed Microwave (101) |
| 5.538 5.540                                                                                                                                                                                                           |                                                                                                                                                                                                     |                                                                                                                                                                             |                                                                                                                                                                                                         |                                                                                                   |                                                        |
| 28.5-29.1<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.523A 5.539<br>MOBILE<br>Earth exploration-satellite (Earth-to-space) 5.541                                                                     |                                                                                                                                                                                                     |                                                                                                                                                                             |                                                                                                                                                                                                         |                                                                                                   |                                                        |
| 5.540                                                                                                                                                                                                                 |                                                                                                                                                                                                     |                                                                                                                                                                             |                                                                                                                                                                                                         | 29.5-30<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE-SATELLITE (Earth-to-space)                  | Satellite Communications (25)                          |
| 29.1-29.5<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.516B 5.523C 5.523E 5.535A 5.539 5.541A<br>MOBILE<br>Earth exploration-satellite (Earth-to-space) 5.541                                                       |                                                                                                                                                                                                     |                                                                                                                                                                             |                                                                                                                                                                                                         |                                                                                                   |                                                        |
| 29.5-29.9<br>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539<br>Earth exploration-satellite (Earth-to-space) 5.541<br>Mobile-satellite (Earth-to-space)                                                          | 29.5-29.9<br>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539<br>MOBILE-SATELLITE (Earth-to-space)<br>Earth exploration-satellite (Earth-to-space) 5.541<br>5.525 5.526 5.527 5.529 5.540 5.542 | 29.5-29.9<br>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539<br>Earth exploration-satellite (Earth-to-space) 5.541<br>Mobile-satellite (Earth-to-space)<br>5.540 5.542 |                                                                                                                                                                                                         |                                                                                                   |                                                        |
| 29.9-30<br>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539<br>MOBILE-SATELLITE (Earth-to-space)<br>Earth exploration-satellite (Earth-to-space) 5.541 5.543<br>5.525 5.526 5.527 5.538 5.540 5.542               |                                                                                                                                                                                                     |                                                                                                                                                                             |                                                                                                                                                                                                         | 5.525 5.526 5.527 5.529 5.543                                                                     |                                                        |

| Table of Frequency Allocations                                                                                                                         |                                                                                                       |                                                                                                                                                     | 30-39.5 GHz (EHF)                                                                                                                                  |                                                                                                |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------|
| International Table                                                                                                                                    |                                                                                                       |                                                                                                                                                     | United States Table                                                                                                                                |                                                                                                | FCC Rule Part(s)      |
| Region 1 Table                                                                                                                                         | Region 2 Table                                                                                        | Region 3 Table                                                                                                                                      | Federal Table                                                                                                                                      | Non-Federal Table                                                                              |                       |
| 30-31<br>FIXED-SATELLITE (Earth-to-space) 5.338A<br>MOBILE-SATELLITE (Earth-to-space)<br>Standard frequency and time signal-satellite (space-to-Earth) |                                                                                                       |                                                                                                                                                     | 30-31<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE-SATELLITE (Earth-to-space)<br>Standard frequency and time<br>signal-satellite (space-to-Earth) | 30-31<br>Standard frequency and time<br>signal-satellite (space-to-Earth)                      |                       |
| 5.542                                                                                                                                                  |                                                                                                       |                                                                                                                                                     | G117                                                                                                                                               |                                                                                                |                       |
| 31-31.3<br>FIXED 5.338A 5.543A<br>MOBILE<br>Standard frequency and time signal-satellite (space-to-Earth)<br>Space research 5.544 5.545                |                                                                                                       |                                                                                                                                                     | 31-31.3<br>Standard frequency and time<br>signal-satellite (space-to-Earth)                                                                        | 31-31.3<br>FIXED<br>MOBILE<br>Standard frequency and time<br>signal-satellite (space-to-Earth) | Fixed Microwave (101) |
| 5.149                                                                                                                                                  |                                                                                                       |                                                                                                                                                     | US211 US342                                                                                                                                        | US211 US342                                                                                    |                       |
| 31.3-31.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)                                                      |                                                                                                       |                                                                                                                                                     | 31.3-31.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)                                             |                                                                                                |                       |
| 5.340                                                                                                                                                  |                                                                                                       |                                                                                                                                                     |                                                                                                                                                    |                                                                                                |                       |
| 31.5-31.8<br>EARTH EXPLORATION-<br>SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>Fixed<br>Mobile except aeronautical mobile    | 31.5-31.8<br>EARTH EXPLORATION-<br>SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) | 31.5-31.8<br>EARTH EXPLORATION-<br>SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>Fixed<br>Mobile except aeronautical mobile |                                                                                                                                                    |                                                                                                |                       |
| 5.149 5.546                                                                                                                                            | 5.340                                                                                                 | 5.149                                                                                                                                               | US246                                                                                                                                              |                                                                                                |                       |
| 31.8-32<br>FIXED 5.547A<br>RADIONAVIGATION<br>SPACE RESEARCH (deep space) (space-to-Earth)                                                             |                                                                                                       |                                                                                                                                                     | 31.8-32.3<br>RADIONAVIGATION US69<br>SPACE RESEARCH (deep space)<br>(space-to-Earth) US262                                                         | 31.8-32.3<br>SPACE RESEARCH (deep space)<br>(space-to-Earth) US262                             |                       |
| 5.547 5.547B 5.548                                                                                                                                     |                                                                                                       |                                                                                                                                                     |                                                                                                                                                    |                                                                                                |                       |
| 32-32.3<br>FIXED 5.547A<br>RADIONAVIGATION<br>SPACE RESEARCH (deep space) (space-to-Earth)                                                             |                                                                                                       |                                                                                                                                                     |                                                                                                                                                    |                                                                                                |                       |
| 5.547 5.547C 5.548                                                                                                                                     |                                                                                                       |                                                                                                                                                     | 5.548 US211                                                                                                                                        | 5.548 US211                                                                                    |                       |
| 32.3-33<br>FIXED 5.547A<br>INTER-SATELLITE<br>RADIONAVIGATION                                                                                          |                                                                                                       |                                                                                                                                                     | 32.3-33<br>INTER-SATELLITE US278<br>RADIONAVIGATION US69                                                                                           |                                                                                                | Aviation (87)         |
| 5.547 5.547D 5.548                                                                                                                                     |                                                                                                       |                                                                                                                                                     | 5.548                                                                                                                                              |                                                                                                |                       |
| 33-33.4<br>FIXED 5.547A<br>RADIONAVIGATION                                                                                                             |                                                                                                       |                                                                                                                                                     | 33-33.4<br>RADIONAVIGATION US69                                                                                                                    |                                                                                                |                       |
| 5.547 5.547E                                                                                                                                           |                                                                                                       |                                                                                                                                                     | US360 G117                                                                                                                                         |                                                                                                |                       |

|                                                                                                                                                                |                                                                                                                  |                                                                                                          |                                                        |
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| 33.4-34.2<br>RADIOLOCATION<br><br>5.549                                                                                                                        | 33.4-34.2<br>RADIOLOCATION<br><br>US360 G117                                                                     | 33.4-34.2<br>Radiolocation<br><br>US360                                                                  | Private Land Mobile (90)                               |
| 34.2-34.7<br>RADIOLOCATION<br>SPACE RESEARCH (deep space) (Earth-to-space)<br><br>5.549                                                                        | 34.2-34.7<br>RADIOLOCATION<br>SPACE RESEARCH (deep space) (Earth-to-space) US262<br><br>US360 G34 G117           | 34.2-34.7<br>Radiolocation<br>Space research (deep space) (Earth-to-space) US262<br><br>US360            |                                                        |
| 34.7-35.2<br>RADIOLOCATION<br>Space research 5.550<br><br>5.549                                                                                                | 34.7-35.5<br>RADIOLOCATION<br><br><br>US360 G117                                                                 | 34.7-35.5<br>Radiolocation<br><br><br>US360                                                              |                                                        |
| 35.2-35.5<br>METEOROLOGICAL AIDS<br>RADIOLOCATION<br><br>5.549                                                                                                 |                                                                                                                  |                                                                                                          |                                                        |
| 35.5-36<br>METEOROLOGICAL AIDS<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH (active)<br><br>5.549 5.549A                         | 35.5-36<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH (active)<br><br>US360 G117    | 35.5-36<br>Earth exploration-satellite (active)<br>Radiolocation<br>Space research (active)<br><br>US360 |                                                        |
| 36-37<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE<br>SPACE RESEARCH (passive)<br><br>5.149 5.550A                                              | 36-37<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE<br>SPACE RESEARCH (passive)<br><br>US263 US342 |                                                                                                          |                                                        |
| 37-37.5<br>FIXED<br>MOBILE<br>SPACE RESEARCH (space-to-Earth)<br><br>5.547                                                                                     | 37-38<br>FIXED<br>MOBILE<br>SPACE RESEARCH (space-to-Earth)                                                      | 37-37.5<br>FIXED<br>MOBILE                                                                               |                                                        |
| 37.5-38<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>SPACE RESEARCH (space-to-Earth)<br>Earth exploration-satellite (space-to-Earth)<br><br>5.547 |                                                                                                                  | 37.5-38.6<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE                                         | Satellite Communications (25)                          |
| 38-39.5<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>Earth exploration-satellite (space-to-Earth)<br><br>5.547                                    | 38-38.6<br>FIXED<br>MOBILE                                                                                       | 38.6-39.5<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE NG175                                   | Satellite Communications (25)<br>Fixed Microwave (101) |
|                                                                                                                                                                | 38.6-39.5                                                                                                        |                                                                                                          |                                                        |

| Table of Frequency Allocations                                                                                                                                                                                                                |                                                                                                                                                      |                                                                                                          | 39.5-50.2 GHz (EHF)                                                                                                                                                                                                         |                                                                                                                                               |                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| International Table                                                                                                                                                                                                                           |                                                                                                                                                      |                                                                                                          | United States Table                                                                                                                                                                                                         |                                                                                                                                               | FCC Rule Part(s)                                       |
| Region 1 Table                                                                                                                                                                                                                                | Region 2 Table                                                                                                                                       | Region 3 Table                                                                                           | Federal Table                                                                                                                                                                                                               | Non-Federal Table                                                                                                                             |                                                        |
| 39.5-40<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.516B<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)<br>Earth exploration-satellite (space-to-Earth)                                                                                    |                                                                                                                                                      |                                                                                                          | 39.5-40<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth) US382                                                                                                                                      | 39.5-40<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE NG175                                                                          | Satellite Communications (25)<br>Fixed Microwave (101) |
| 5.547                                                                                                                                                                                                                                         |                                                                                                                                                      |                                                                                                          | G117                                                                                                                                                                                                                        | US382                                                                                                                                         |                                                        |
| 40-40.5<br>EARTH EXPLORATION-SATELLITE (Earth-to-space)<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.516B<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)<br>SPACE RESEARCH (Earth-to-space)<br>Earth exploration-satellite (space-to-Earth) |                                                                                                                                                      |                                                                                                          | 40-40.5<br>EARTH EXPLORATION-SATELLITE (Earth-to-space)<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)<br>SPACE RESEARCH (Earth-to-space)<br>Earth exploration-satellite (space-to-Earth)<br>G117 | 40-40.5<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)                                                              | Satellite Communications (25)                          |
| 40.5-41<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>BROADCASTING<br>BROADCASTING-SATELLITE<br>Mobile                                                                                                                                      | 40.5-41<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.516B<br>BROADCASTING<br>BROADCASTING-SATELLITE<br>Mobile<br>Mobile-satellite (space-to-Earth) | 40.5-41<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>BROADCASTING<br>BROADCASTING-SATELLITE<br>Mobile | 40.5-41<br>FIXED-SATELLITE (space-to-Earth)<br>Mobile-satellite (space-to-Earth)                                                                                                                                            | 40.5-41<br>FIXED-SATELLITE (space-to-Earth)<br>BROADCASTING<br>BROADCASTING-SATELLITE<br>Fixed<br>Mobile<br>Mobile-satellite (space-to-Earth) |                                                        |
| 5.547                                                                                                                                                                                                                                         | 5.547                                                                                                                                                | 5.547                                                                                                    | US211 G117                                                                                                                                                                                                                  | US211                                                                                                                                         |                                                        |
| 41-42.5<br>FIXED<br>FIXED-SATELLITE (space-to-Earth) 5.516B<br>BROADCASTING<br>BROADCASTING-SATELLITE<br>Mobile                                                                                                                               |                                                                                                                                                      |                                                                                                          | 41-42.5                                                                                                                                                                                                                     | 41-42<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>BROADCASTING<br>BROADCASTING-SATELLITE<br>US211                               |                                                        |
|                                                                                                                                                                                                                                               |                                                                                                                                                      |                                                                                                          |                                                                                                                                                                                                                             | 42-42.5<br>FIXED<br>MOBILE<br>BROADCASTING<br>BROADCASTING-SATELLITE                                                                          |                                                        |
| 5.547 5.551F 5.551H 5.551I                                                                                                                                                                                                                    |                                                                                                                                                      |                                                                                                          | US211                                                                                                                                                                                                                       | US211                                                                                                                                         |                                                        |
| 42.5-43.5<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.552<br>MOBILE except aeronautical mobile<br>RADIO ASTRONOMY                                                                                                                          |                                                                                                                                                      |                                                                                                          | 42.5-43.5<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE except aeronautical mobile<br>RADIO ASTRONOMY                                                                                                              | 42.5-43.5<br>RADIO ASTRONOMY                                                                                                                  |                                                        |
| 5.149 5.547                                                                                                                                                                                                                                   |                                                                                                                                                      |                                                                                                          | US342                                                                                                                                                                                                                       | US342                                                                                                                                         |                                                        |

|                                                                                                                     |                                                                                      |                                                                                                |                                                                                              |                               |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------|
| 43.5-47<br>MOBILE 5.553<br>MOBILE-SATELLITE<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE                         |                                                                                      | 43.5-45.5<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE-SATELLITE (Earth-to-space)<br><br>G117 | 43.5-45.5                                                                                    |                               |
| 5.554                                                                                                               |                                                                                      | 45.5-46.9<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)<br>RADIONAVIGATION-SATELLITE<br>5.554 |                                                                                              | RF Devices (15)               |
| 47-47.2<br>AMATEUR<br>AMATEUR-SATELLITE                                                                             |                                                                                      | 46.9-47<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)<br>RADIONAVIGATION-SATELLITE            | 46.9-47<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)<br>RADIONAVIGATION-SATELLITE |                               |
| 47.2-47.5<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.552<br>MOBILE                                              |                                                                                      | 5.554                                                                                          | 5.554                                                                                        |                               |
| 5.552A                                                                                                              |                                                                                      | 47-48.2                                                                                        | 47-47.2<br>AMATEUR<br>AMATEUR-SATELLITE                                                      | Amateur Radio (97)            |
| 47.5-47.9<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>5.552 (space-to-Earth) 5.516B<br>5.554A<br>MOBILE         | 47.5-47.9<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.552<br>MOBILE               |                                                                                                | 47.2-48.2<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>US297<br>MOBILE                    | Satellite Communications (25) |
| 47.9-48.2<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.552<br>MOBILE                                              |                                                                                      |                                                                                                |                                                                                              |                               |
| 5.552A                                                                                                              |                                                                                      |                                                                                                |                                                                                              |                               |
| 48.2-48.54<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>5.552 (space-to-Earth) 5.516B<br>5.554A 5.555B<br>MOBILE | 48.2-50.2<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.338A 5.516B 5.552<br>MOBILE | 48.2-50.2<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) US297<br>MOBILE US264                   |                                                                                              |                               |
| 48.54-49.44<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>5.552<br>MOBILE                                         |                                                                                      |                                                                                                |                                                                                              |                               |
| 5.149 5.340 5.555                                                                                                   | 5.149 5.340 5.555                                                                    | 5.555 US342                                                                                    |                                                                                              |                               |

| Table of Frequency Allocations                                                                                                            |                     |                | 50.2-71 GHz (EHF)                                                                                                                        |                                                                                                       | FCC Rule Part(s)              |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------|
| International Table                                                                                                                       |                     |                | United States Table                                                                                                                      |                                                                                                       |                               |
| Region 1 Table                                                                                                                            | Region 2 Table      | Region 3 Table | Federal Table                                                                                                                            | Non-Federal Table                                                                                     |                               |
| 49.44-50.2<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>5.338A 5.552 (space-to-Earth)<br>5.516B 5.554A 5.555B<br>MOBILE                | (See previous page) |                | (See previous page)                                                                                                                      |                                                                                                       |                               |
| 50.2-50.4<br>EARTH EXPLORATION-SATELLITE (passive)<br>SPACE RESEARCH (passive)                                                            |                     |                | 50.2-50.4<br>EARTH EXPLORATION-SATELLITE (passive)<br>SPACE RESEARCH (passive)                                                           |                                                                                                       |                               |
| 5.340                                                                                                                                     |                     |                | US246                                                                                                                                    |                                                                                                       |                               |
| 50.4-51.4<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.338A<br>MOBILE<br>Mobile-satellite (Earth-to-space)                              |                     |                | 50.4-51.4<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)<br><br>G117                        | 50.4-51.4<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space) |                               |
| 51.4-52.6<br>FIXED 5.338A<br>MOBILE                                                                                                       |                     |                | 51.4-52.6<br>FIXED<br>MOBILE                                                                                                             |                                                                                                       |                               |
| 5.547 5.556                                                                                                                               |                     |                |                                                                                                                                          |                                                                                                       |                               |
| 52.6-54.25<br>EARTH EXPLORATION-SATELLITE (passive)<br>SPACE RESEARCH (passive)                                                           |                     |                | 52.6-54.25<br>EARTH EXPLORATION-SATELLITE (passive)<br>SPACE RESEARCH (passive)                                                          |                                                                                                       |                               |
| 5.340 5.556                                                                                                                               |                     |                | US246                                                                                                                                    |                                                                                                       |                               |
| 54.25-55.78<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.556A<br>SPACE RESEARCH (passive)                                |                     |                | 54.25-55.78<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.556A<br>SPACE RESEARCH (passive)                               |                                                                                                       | Satellite Communications (25) |
| 5.556B                                                                                                                                    |                     |                |                                                                                                                                          |                                                                                                       |                               |
| 55.78-56.9<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED 5.557A<br>INTER-SATELLITE 5.556A<br>MOBILE 5.558<br>SPACE RESEARCH (passive) |                     |                | 55.78-56.9<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED US379<br>INTER-SATELLITE 5.556A<br>MOBILE 5.558<br>SPACE RESEARCH (passive) |                                                                                                       |                               |
| 5.547 5.557                                                                                                                               |                     |                | US263 US353                                                                                                                              |                                                                                                       |                               |
| 56.9-57<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>INTER-SATELLITE 5.558A<br>MOBILE 5.558<br>SPACE RESEARCH (passive)           |                     |                | 56.9-57<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>INTER-SATELLITE G128<br>MOBILE 5.558<br>SPACE RESEARCH (passive)            | 56.9-57<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE 5.558<br>SPACE RESEARCH (passive) |                               |
| 5.547 5.557                                                                                                                               |                     |                | US263                                                                                                                                    | US263                                                                                                 |                               |

|                                                                                                                                                        |                                                                                                                                                                 |                                                                                                                                       |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 57-58.2<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>INTER-SATELLITE 5.556A<br>MOBILE 5.558<br>SPACE RESEARCH (passive)<br>5.547 5.557         | 57-58.2<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>INTER-SATELLITE 5.556A<br>MOBILE 5.558<br>SPACE RESEARCH (passive)<br>US263                        |                                                                                                                                       | RF Devices (15)<br>Satellite Communications (25) |
| 58.2-59<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE<br>SPACE RESEARCH (passive)<br>5.547 5.556                                         | 58.2-59<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE<br>SPACE RESEARCH (passive)<br>US353 US354                                                  |                                                                                                                                       | RF Devices (15)                                  |
| 59-59.3<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>INTER-SATELLITE 5.556A<br>MOBILE 5.558<br>RADIOLOCATION 5.559<br>SPACE RESEARCH (passive) | 59-59.3<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>INTER-SATELLITE 5.556A<br>MOBILE 5.558<br>RADIOLOCATION 5.559<br>SPACE RESEARCH (passive)<br>US353 | 59-59.3<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE 5.558<br>RADIOLOCATION 5.559<br>SPACE RESEARCH (passive)<br>US353 |                                                  |
| 59.3-64<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>RADIOLOCATION 5.559<br>5.138                                                                    | 59.3-64<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>RADIOLOCATION 5.559<br>5.138 US353                                                                       | 59.3-64<br>FIXED<br>MOBILE 5.558<br>RADIOLOCATION 5.559<br>5.138 US353                                                                | RF Devices (15)<br>ISM Equipment (18)            |
| 64-65<br>FIXED<br>INTER-SATELLITE<br>MOBILE except aeronautical mobile<br>5.547 5.556                                                                  | 64-65<br>FIXED<br>INTER-SATELLITE<br>MOBILE except aeronautical mobile                                                                                          | 64-65<br>FIXED<br>MOBILE except aeronautical mobile                                                                                   |                                                  |
| 65-66<br>EARTH EXPLORATION-SATELLITE<br>FIXED<br>INTER-SATELLITE<br>MOBILE except aeronautical mobile<br>SPACE RESEARCH<br>5.547                       | 65-66<br>EARTH EXPLORATION-SATELLITE<br>FIXED<br>MOBILE except aeronautical mobile<br>SPACE RESEARCH                                                            | 65-66<br>EARTH EXPLORATION-SATELLITE<br>FIXED<br>INTER-SATELLITE<br>MOBILE except aeronautical mobile<br>SPACE RESEARCH               | Satellite Communications (25)                    |
| 66-71<br>INTER-SATELLITE<br>MOBILE 5.553 5.558<br>MOBILE-SATELLITE<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>5.554                            | 66-71<br>MOBILE 5.553 5.558<br>MOBILE-SATELLITE<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>5.554                                                        | 66-71<br>INTER-SATELLITE<br>MOBILE 5.553 5.558<br>MOBILE-SATELLITE<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>5.554           |                                                  |

| Table of Frequency Allocations                                                                                                                     |                |                | 71-100 GHz (EHF)                                                                                           |                                                                                                                                                    |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| International Table                                                                                                                                |                |                | United States Table                                                                                        |                                                                                                                                                    | FCC Rule Part(s)      |
| Region 1 Table                                                                                                                                     | Region 2 Table | Region 3 Table | Federal Table                                                                                              | Non-Federal Table                                                                                                                                  |                       |
| 71-74<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)                                                  |                |                | 71-74<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)<br>US389 |                                                                                                                                                    | Fixed Microwave (101) |
| 74-76<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>BROADCASTING<br>BROADCASTING-SATELLITE<br>Space research (space-to-Earth)<br>5.561 |                |                | 74-76<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>Space research (space-to-Earth)<br>US389   | 74-76<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>BROADCASTING<br>BROADCASTING-SATELLITE<br>Space research (space-to-Earth)<br>US389 |                       |
| 76-77.5<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>Space research (space-to-Earth)                                     |                |                | 76-77.5<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Space research (space-to-Earth)                             | 76-77<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Space research (space-to-Earth)<br>US342                                                   | RF Devices (15)       |
| 5.149                                                                                                                                              |                |                | US342                                                                                                      | 77-77.5<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>Space research (space-to-Earth)<br>US342                            | Amateur Radio (97)    |
| 77.5-78<br>AMATEUR<br>AMATEUR-SATELLITE<br>Radio astronomy<br>Space research (space-to-Earth)<br>5.149                                             |                |                | 77.5-78<br>Radio astronomy<br>Space research (space-to-Earth)<br>US342                                     | 77.5-78<br>AMATEUR<br>AMATEUR-SATELLITE<br>Radio astronomy<br>Space research (space-to-Earth)<br>US342                                             |                       |
| 78-79<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>Radio astronomy<br>Space research (space-to-Earth)<br>5.149 5.560                        |                |                | 78-79<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Space research (space-to-Earth)<br>5.560 US342                | 78-79<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>Space research (space-to-Earth)<br>5.560 US342                        |                       |
| 79-81<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>Space research (space-to-Earth)<br>5.149                              |                |                | 79-81<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Space research (space-to-Earth)<br>US342                      | 79-81<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>Space research (space-to-Earth)<br>US342                              |                       |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 81-84<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)<br>RADIO ASTRONOMY<br>Space research (space-to-Earth)<br>5.149 5.561A | 81-84<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) US297<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)<br>RADIO ASTRONOMY<br>Space research (space-to-Earth)<br>US342 US388 US389 | Fixed Microwave (101)                                 |
| 84-86<br>FIXED<br>FIXED-SATELLITE (Earth-to-space) 5.561B<br>MOBILE<br>RADIO ASTRONOMY<br>5.149                                                                         | 84-86<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>RADIO ASTRONOMY<br>US342 US388 US389                                                                               |                                                       |
| 86-92<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340                                                                  | 86-92<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>US246                                                                        |                                                       |
| 92-94<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>5.149                                                                                                   | 92-94<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>US342 US388                                                                                                        | RF Devices (15)<br>Fixed Microwave (101)              |
| 94-94.1<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH (active)<br>Radio astronomy<br>5.562 5.562A                                          | 94-94.1<br>EARTH EXPLORATION-SATELLITE (active)<br>RADIOLOCATION<br>SPACE RESEARCH (active)<br>Radio astronomy<br>5.562 5.562A                                                     | 94-94.1<br>RADIOLOCATION<br>Radio astronomy<br>5.562A |
| 94.1-95<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>5.149                                                                                                 | 94.1-95<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>US342 US388                                                                                                      | RF Devices (15)<br>Fixed Microwave (101)              |
| 95-100<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>5.149 5.554                                            | 95-100<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>5.554 US342                                                       |                                                       |

| Table of Frequency Allocations                                                                                     |                |                | 100-155.5 GHz (EHF)                                                                                                                |                   | FCC Rule Part(s)   |
|--------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|
| International Table                                                                                                |                |                | United States Table                                                                                                                |                   |                    |
| Region 1 Table                                                                                                     | Region 2 Table | Region 3 Table | Federal Table                                                                                                                      | Non-Federal Table |                    |
| 100-102<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340 5.341     |                |                | 100-102<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>5.341 US246                |                   |                    |
| 102-105<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>5.149 5.341                                                       |                |                | 102-105<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>5.341 US342                                                                       |                   |                    |
| 105-109.5<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) 5.562B<br>5.149 5.341                  |                |                | 105-109.5<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) 5.562B<br>5.341 US342                                  |                   |                    |
| 109.5-111.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340 5.341 |                |                | 109.5-111.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>5.341 US246            |                   |                    |
| 111.8-114.25<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) 5.562B<br>5.149 5.341               |                |                | 111.8-114.25<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) 5.562B<br>5.341 US342                               |                   |                    |
| 114.25-116<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340 5.341  |                |                | 114.25-116<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>5.341 US246             |                   |                    |
| 116-119.98<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.562C<br>SPACE RESEARCH (passive)<br>5.341 |                |                | 116-122.25<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.562C<br>SPACE RESEARCH (passive)<br><br>5.138 5.341 US211 |                   | ISM Equipment (18) |
| 119.98-122.25<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.562C<br>SPACE RESEARCH (passive)       |                |                |                                                                                                                                    |                   |                    |
| 5.138 5.341                                                                                                        |                |                |                                                                                                                                    |                   |                    |

|                                                                                                                                                                           |                                                                                                                                                                          |                                                                                      |                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------|
| 122.25-123<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>Amateur<br>5.138                                                                                                | 122.25-123<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>5.138                                                                                                          | 122.25-123<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>Amateur<br>5.138           | ISM Equipment (18)<br>Amateur Radio (97) |
| 123-130<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>Radio astronomy 5.562D<br>5.149 5.554 | 123-130<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE-SATELLITE (space-to-Earth)<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>Radio astronomy<br>5.554 US211 US342 |                                                                                      |                                          |
| 130-134<br>EARTH EXPLORATION-SATELLITE (active) 5.562E<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>RADIO ASTRONOMY<br>5.149 5.562A                                     | 130-134<br>EARTH EXPLORATION-SATELLITE (active) 5.562E<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>RADIO ASTRONOMY<br>5.562A US342                                    |                                                                                      |                                          |
| 134-136<br>AMATEUR<br>AMATEUR-SATELLITE<br>Radio astronomy                                                                                                                | 134-136<br>Radio astronomy                                                                                                                                               | 134-136<br>AMATEUR<br>AMATEUR-SATELLITE<br>Radio astronomy                           | Amateur Radio (97)                       |
| 136-141<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>5.149                                                                                      | 136-141<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>US342                                                                                                                     | 136-141<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite<br>US342 |                                          |
| 141-148.5<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>5.149                                                                                                 | 141-148.5<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>US342                                                                                                |                                                                                      |                                          |
| 148.5-151.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340                                                              | 148.5-151.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>US246                                                        |                                                                                      |                                          |
| 151.5-155.5<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>5.149                                                                                               | 151.5-155.5<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>US342                                                                                              |                                                                                      |                                          |

| Table of Frequency Allocations                                                                                                                           |                |                | 155.5-238 GHz (EHF)                                                                                                                                      |                   | FCC Rule Part(s) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|
| International Table                                                                                                                                      |                |                | United States Table                                                                                                                                      |                   |                  |
| Region 1 Table                                                                                                                                           | Region 2 Table | Region 3 Table | Federal Table                                                                                                                                            | Non-Federal Table |                  |
| 155.5-158.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) 5.562B<br><br>5.149 5.562F 5.562G |                |                | 155.5-158.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED<br>MOBILE<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) 5.562B<br><br>5.562F 5.562G US342 |                   |                  |
| 158.5-164<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)                                                    |                |                | 158.5-164<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>MOBILE-SATELLITE (space-to-Earth)<br><br>US211                                       |                   |                  |
| 164-167<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br><br>5.340                                             |                |                | 164-167<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br><br>US246                                        |                   |                  |
| 167-174.5<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>INTER-SATELLITE<br>MOBILE 5.558<br><br>5.149 5.562D                                            |                |                | 167-174.5<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>INTER-SATELLITE<br>MOBILE 5.558<br><br>US211 US342                                             |                   |                  |
| 174.5-174.8<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558                                                                                                  |                |                | 174.5-174.8<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558                                                                                                  |                   |                  |
| 174.8-182<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.562H<br>SPACE RESEARCH (passive)                                                 |                |                | 174.8-182<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.562H<br>SPACE RESEARCH (passive)                                                 |                   |                  |
| 182-185<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br><br>5.340                                             |                |                | 182-185<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br><br>US246                                             |                   |                  |
| 185-190<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.562H<br>SPACE RESEARCH (passive)                                                   |                |                | 185-190<br>EARTH EXPLORATION-SATELLITE (passive)<br>INTER-SATELLITE 5.562H<br>SPACE RESEARCH (passive)                                                   |                   |                  |
| 190-191.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>SPACE RESEARCH (passive)<br><br>5.340                                                              |                |                | 190-191.8<br>EARTH EXPLORATION-SATELLITE (passive)<br>SPACE RESEARCH (passive)<br><br>US246                                                              |                   |                  |

|                                                                                                                                                |                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 191.8-200<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>MOBILE-SATELLITE<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>5.149 5.341 5.554 | 191.8-200<br>FIXED<br>INTER-SATELLITE<br>MOBILE 5.558<br>MOBILE-SATELLITE<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE<br>5.341 5.554 US211 US342 |  |
| 200-209<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340 5.341 5.563A                          | 200-209<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)<br>5.341 5.563A US246                           |  |
| 209-217<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>RADIO ASTRONOMY<br>5.149 5.341                                               | 209-217<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>RADIO ASTRONOMY<br>5.341 US342                                                     |  |
| 217-226<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) 5.562B<br>5.149 5.341            | 217-226<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive) 5.562B<br>5.341 US342                  |  |
| 226-231.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>5.340                                     | 226-231.5<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)<br>US246                                           |  |
| 231.5-232<br>FIXED<br>MOBILE<br>Radiolocation                                                                                                  | 231.5-232<br>FIXED<br>MOBILE<br>Radiolocation                                                                                                        |  |
| 232-235<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>Radiolocation                                                                | 232-235<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>Radiolocation                                                                      |  |
| 235-238<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED-SATELLITE (space-to-Earth)<br>SPACE RESEARCH (passive)<br>5.563A 5.563B              | 235-238<br>EARTH EXPLORATION-SATELLITE (passive)<br>FIXED-SATELLITE (space-to-Earth)<br>SPACE RESEARCH (passive)<br>5.563A 5.563B                    |  |

| Table of Frequency Allocations                                                                                                     |                |                | 238-1000 GHz (EHF)                                                                                                                 |                                                                             |                                          |
|------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------|
| International Table                                                                                                                |                |                | United States Table                                                                                                                |                                                                             | FCC Rule Part(s)                         |
| Region 1 Table                                                                                                                     | Region 2 Table | Region 3 Table | Federal Table                                                                                                                      | Non-Federal Table                                                           |                                          |
| 238-240<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>RADIOLOCATION<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE    |                |                | 238-240<br>FIXED<br>FIXED-SATELLITE (space-to-Earth)<br>MOBILE<br>RADIOLOCATION<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE    |                                                                             |                                          |
| 240-241<br>FIXED<br>MOBILE<br>RADIOLOCATION                                                                                        |                |                | 240-241<br>FIXED<br>MOBILE<br>RADIOLOCATION                                                                                        |                                                                             |                                          |
| 241-248<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite                                                        |                |                | 241-248<br>RADIO ASTRONOMY<br>RADIOLOCATION                                                                                        | 241-248<br>RADIO ASTRONOMY<br>RADIOLOCATION<br>Amateur<br>Amateur-satellite | ISM Equipment (18)<br>Amateur Radio (97) |
| 5.138 5.149                                                                                                                        |                |                | 5.138 US342                                                                                                                        | 5.138 US342                                                                 |                                          |
| 248-250<br>AMATEUR<br>AMATEUR-SATELLITE<br>Radio astronomy                                                                         |                |                | 248-250<br>Radio astronomy                                                                                                         | 248-250<br>AMATEUR<br>AMATEUR-SATELLITE<br>Radio astronomy                  | Amateur Radio (97)                       |
| 5.149                                                                                                                              |                |                | US342                                                                                                                              | US342                                                                       |                                          |
| 250-252<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY<br>SPACE RESEARCH (passive)                                    |                |                | 250-252<br>EARTH EXPLORATION-SATELLITE (passive)<br>RADIO ASTRONOMY US74<br>SPACE RESEARCH (passive)                               |                                                                             |                                          |
| 5.340 5.563A                                                                                                                       |                |                | 5.563A US246                                                                                                                       |                                                                             |                                          |
| 252-265<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)<br>RADIO ASTRONOMY<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE |                |                | 252-265<br>FIXED<br>MOBILE<br>MOBILE-SATELLITE (Earth-to-space)<br>RADIO ASTRONOMY<br>RADIONAVIGATION<br>RADIONAVIGATION-SATELLITE |                                                                             |                                          |
| 5.149 5.554                                                                                                                        |                |                | 5.554 US211 US342                                                                                                                  |                                                                             |                                          |
| 265-275<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>RADIO ASTRONOMY                                                  |                |                | 265-275<br>FIXED<br>FIXED-SATELLITE (Earth-to-space)<br>MOBILE<br>RADIO ASTRONOMY                                                  |                                                                             |                                          |
| 5.149 5.563A                                                                                                                       |                |                | 5.563A US342                                                                                                                       |                                                                             |                                          |
| 275-1000 (Not allocated)                                                                                                           |                |                | 275-1000 (Not allocated)                                                                                                           |                                                                             |                                          |
| 5.565                                                                                                                              |                |                | 5.565                                                                                                                              |                                                                             | Amateur Radio (97)                       |