

Desert Radio Labs

US Amateur Radio Band Plan

Detailed operating reference | 2200 meters to 23 centimeters

Checked 2026-10-16

FCC-licensed operators in US ITU Region 2, with geographic exceptions called out. US possessions in Regions 1/3 require separate checks.

Two different layers

Charts describe FCC license/emission privileges. Operating tables list customary frequencies, not exclusive assignments. The FCC rules control; voluntary plans help operators share the bands.

Read the colors

Purple: CW. Teal: CW + RTTY/data. Orange: CW + phone/image (except Technician/Novice 10m SSB only). Blue: mixed emissions. Gold: special rules. Gray: no privileges. Exact tables control over abbreviated chart labels.

License keys

T = Technician; G = General; E = Extra; N = grandfathered Novice; A = grandfathered Advanced. CW is permitted throughout authorized segments. Technician/Novice CW-only HF privileges do not include digital modes.

Dial frequency and signal width

USB dial settings are suppressed-carrier frequencies. Add the audio offset to locate RF: 14.074 MHz + 1500 Hz = 14.0755 MHz. The entire emitted signal must fit your privileges.

Power, exposure and sharing

Use the minimum power needed. General ceiling is 1500 W PEP, with numerous lower limits listed by band. Spread spectrum is limited to 10 W output wherever authorized. Meet RF exposure requirements. Protect primary services and follow local coordination. Brief test emissions have separate provisions in 97.305(b).

Digital standards

Digital bandwidth, code and rate standards in 97.307-97.309 apply in addition to these charts. Below 30 MHz, RTTY/data generally has a 2.8 kHz maximum; LF/MF uses separate rate/shift rules. VHF/UHF standards differ.

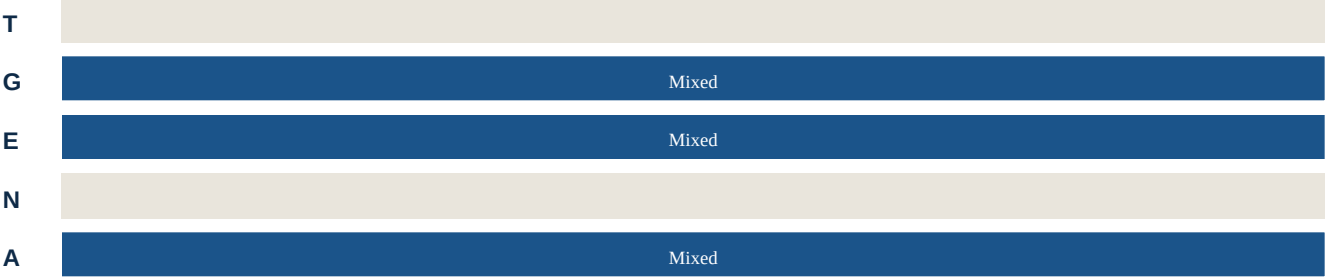
JTTY is provisional

JTTY entries follow the linked WSJT-X development snapshot. They may change and may share frequencies with existing modes. Verify your installed release and actual band activity.

Check current rules

This dated reference is not an automatic transmit authorization. Geographic exceptions are called out but not automatically applied. Current online reference: <https://desertradiolabs.com/tools/us-band-plan/>

2200 m | 135.7 kHz - 137.8 kHz



135.7 kHz137.8 kHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- Fixed locations only. Notify UTC with callsign, bands and antenna coordinates; wait 30 days unless UTC objects. Stay at least 1 km from PLC transmission lines using overlapping frequencies. Secondary service: protect primary users. See 97.303(g).

FCC privileges

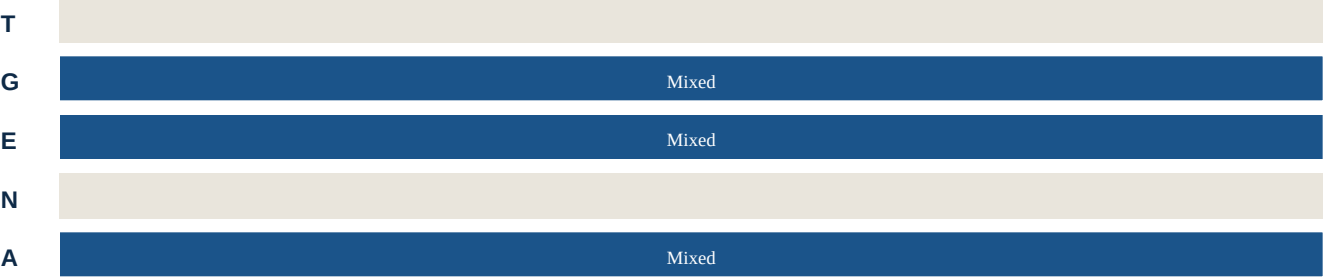
License	Limits	Emissions	Power / conditions
G, A, E	135.7 kHz - 137.8 kHz	CW, RTTY, Data, Phone, Image	1 W EIRP and 1500 W PEP transmitter output maximum. LF/MF digital code/rate/shift restrictions apply under 97.307(f)(3).

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTTY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FST4	136 kHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FST4W	136 kHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	136 kHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	136 kHz	USB dial	Customary software default; listen before transmitting. [wsjtx]

630 m | 472 kHz - 479 kHz



472 kHz479 kHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- Fixed locations only. Notify UTC with callsign, bands and antenna coordinates; wait 30 days unless UTC objects. Stay at least 1 km from PLC transmission lines using overlapping frequencies. Secondary service: protect primary users. See 97.303(g).

FCC privileges

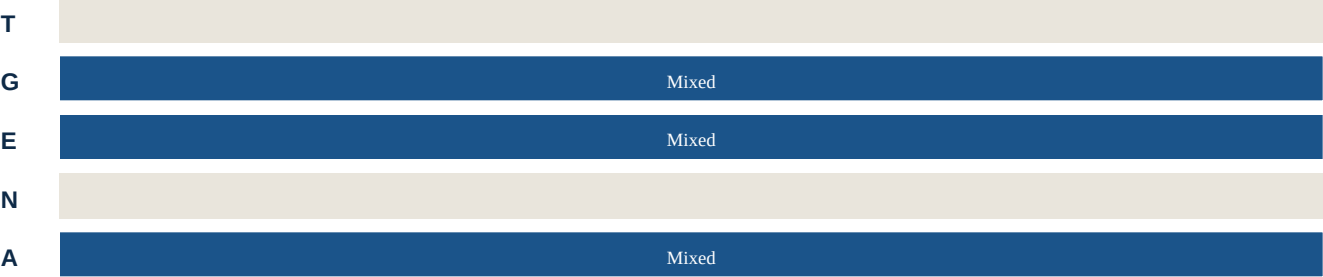
License	Limits	Emissions	Power / conditions
G, A, E	472 kHz - 479 kHz	CW, RTTY, Data, Phone, Image	5 W EIRP and 500 W PEP output maximum; Alaska within 800 km of Russia: 1 W EIRP. LF/MF digital code/rate/shift restrictions apply under 97.307(f)(3).

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTTY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FST4	474.2 kHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FST4W	474.2 kHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	474.2 kHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	474.2 kHz	USB dial	Customary software default; listen before transmitting. [wsjtx]

160 m | 1.8000 MHz - 2.0000 MHz



1.8000 MHz2.0000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- US Region 2 allocation shown; US possessions in other ITU regions may differ.

FCC privileges

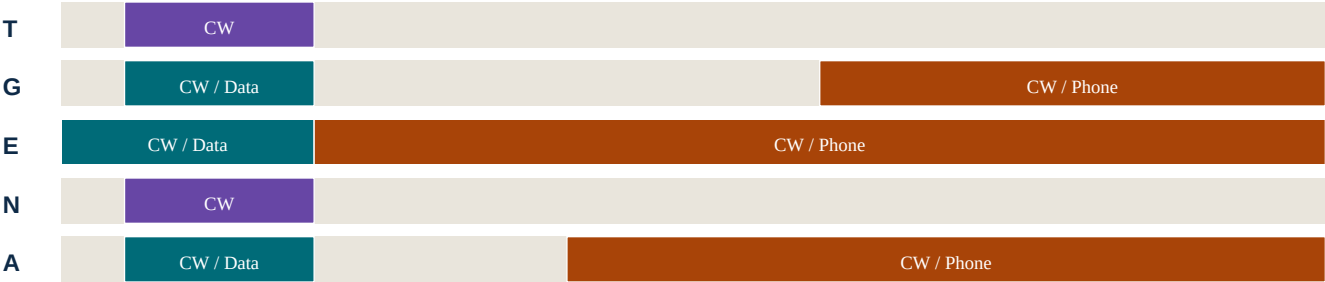
License	Limits	Emissions	Power / conditions
G, A, E	1.8000 MHz - 2.0000 MHz	CW, RTTY, Data, Phone, Image	1500 W PEP maximum; use the minimum needed.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTTY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
WSPR	1.8366 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FST4W	1.8368 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	1.8380 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FST4	1.8390 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	1.8390 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	1.8390 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
FT8	1.8400 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]

80 / 75 m | 3.5000 MHz - 4.0000 MHz



3.5000 MHz4.0000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- All occupied emissions must remain inside the segment authorized to your control operator.

FCC privileges

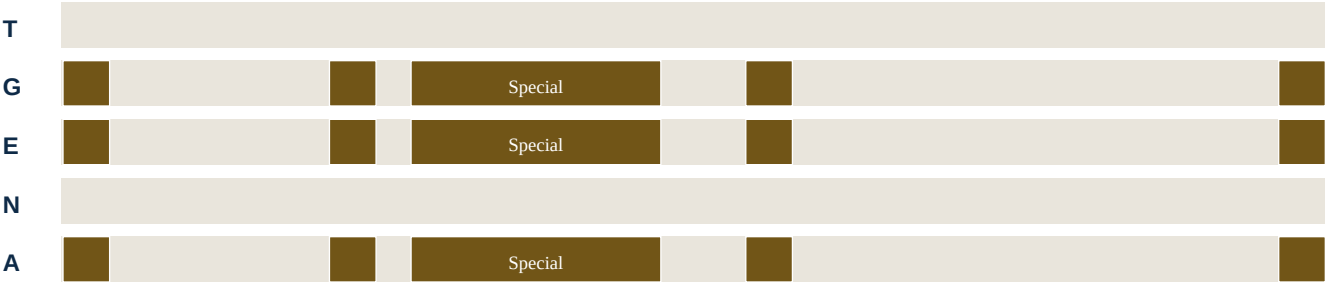
License	Limits	Emissions	Power / conditions
E	3.5000 MHz - 3.6000 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
E	3.6000 MHz - 4.0000 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
A	3.5250 MHz - 3.6000 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
A	3.7000 MHz - 4.0000 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
G	3.5250 MHz - 3.6000 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
G	3.8000 MHz - 4.0000 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
N, T	3.5250 MHz - 3.6000 MHz	CW	200 W PEP maximum. International Morse CW only; FT8, JTTY and other data are not permitted here for Technician/Novice.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTTY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FST4W	3.5686 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	3.5686 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	3.5700 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	3.5720 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	3.5720 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
FT8	3.5730 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	3.5750 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]

60 m | 5.3305 MHz - 5.4064 MHz



5.3305 MHz5.4064 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- Four discrete channels plus a continuous segment; gaps are not authorized. The former 5358.5 kHz center channel is now inside the lower-power continuous segment.
- Secondary service. Protect government/fixed/mobile users; keep digital transmissions brief. ERP includes antenna gain relative to a dipole. FCC 97.303(h), 97.307(f)(14), 97.313(i).

FCC privileges

License	Limits	Emissions	Power / conditions
G, A, E	5.3306 MHz - 5.3334 MHz	CW, Phone, RTTY, Data	100 W ERP maximum. Channel center 5.3320 MHz; USB dial 5.3305 MHz. CW carrier at channel center. Keep occupied bandwidth within 2.8 kHz and centered on the channel.
G, A, E	5.3466 MHz - 5.3494 MHz	CW, Phone, RTTY, Data	100 W ERP maximum. Channel center 5.3480 MHz; USB dial 5.3465 MHz. CW carrier at channel center. Keep occupied bandwidth within 2.8 kHz and centered on the channel.
G, A, E	5.3515 MHz - 5.3665 MHz	CW, Phone, RTTY, Data	9.15 W ERP maximum. Continuous allocation effective February 13, 2026. Maximum occupied bandwidth 2.8 kHz. No image emissions.
G, A, E	5.3716 MHz - 5.3744 MHz	CW, Phone, RTTY, Data	100 W ERP maximum. Channel center 5.3730 MHz; USB dial 5.3715 MHz. CW carrier at channel center. Keep occupied bandwidth within 2.8 kHz and centered on the channel.
G, A, E	5.4036 MHz - 5.4064 MHz	CW, Phone, RTTY, Data	100 W ERP maximum. Channel center 5.4050 MHz; USB dial 5.4035 MHz. CW carrier at channel center. Keep occupied bandwidth within 2.8 kHz and centered on the channel.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTXX entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FT4	5.3570 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT8	5.3570 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	5.3570 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	5.3570 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]

40 m | 7.0000 MHz - 7.3000 MHz



7.0000 MHz7.3000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- All occupied emissions must remain inside the segment authorized to your control operator.
- Geographic exception: phone/image at 7.075-7.100 MHz may be used in ITU Regions 1/3, or in Region 2 west of 130 deg W or south of 20 deg N, subject to license privileges. Not enabled in these standard Region 2 rows. Protect foreign broadcasters at 7.2-7.3 MHz.

FCC privileges

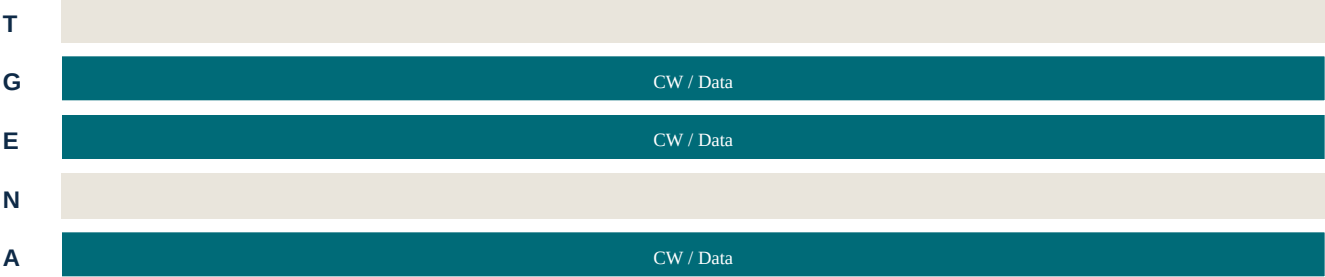
License	Limits	Emissions	Power / conditions
E	7.0000 MHz - 7.1250 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
E	7.1250 MHz - 7.3000 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
A	7.0250 MHz - 7.1250 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
A	7.1250 MHz - 7.3000 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
G	7.0250 MHz - 7.1250 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
G	7.1750 MHz - 7.3000 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
N, T	7.0250 MHz - 7.1250 MHz	CW	200 W PEP maximum. International Morse CW only; FT8, JTTY and other data are not permitted here for Technician/Novice.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTTY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FST4W	7.0386 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	7.0386 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	7.0475 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT8	7.0740 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	7.0760 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	7.0780 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	7.0780 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
AM	7.2900 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]

30 m | 10.1000 MHz - 10.1500 MHz



10.1000 MHz 10.1500 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- No phone or image. Secondary to foreign fixed services. Narrow digital emissions: maximum 2.8 kHz under 97.307(f)(3).

FCC privileges

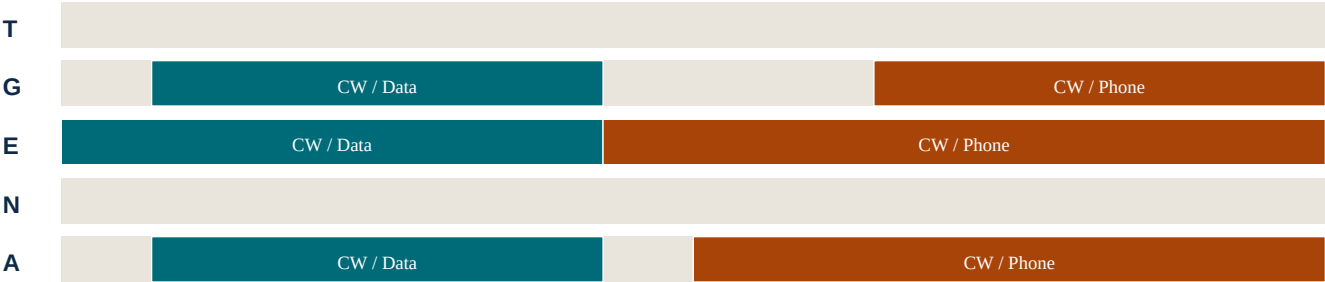
License	Limits	Emissions	Power / conditions
G, A, E	10.1000 MHz - 10.1500 MHz	CW, RTTY, Data	200 W PEP maximum.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTTY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FT8	10.1360 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	10.1380 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FST4W	10.1387 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	10.1387 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	10.1400 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	10.1400 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	10.1400 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]

20 m | 14.0000 MHz - 14.3500 MHz



14.0000 MHz14.3500 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- All occupied emissions must remain inside the segment authorized to your control operator.

FCC privileges

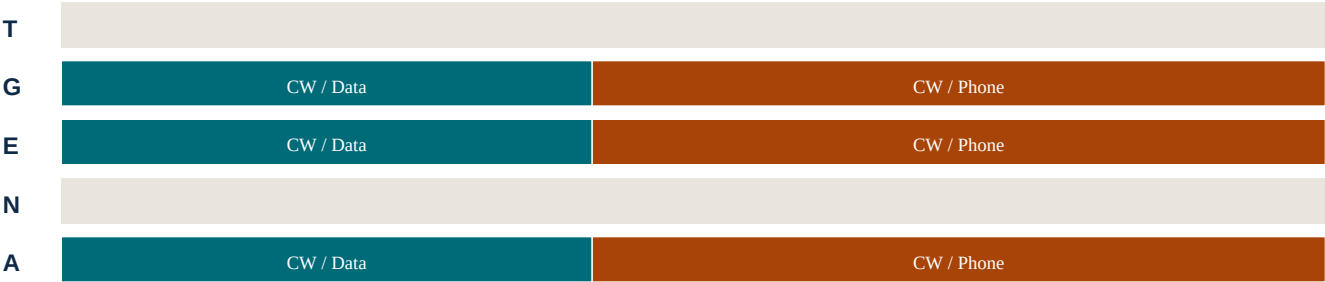
License	Limits	Emissions	Power / conditions
E	14.0000 MHz - 14.1500 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
E	14.1500 MHz - 14.3500 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
A	14.0250 MHz - 14.1500 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
A	14.1750 MHz - 14.3500 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
G	14.0250 MHz - 14.1500 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
G	14.2250 MHz - 14.3500 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JT TY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FT8	14.0740 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	14.0760 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	14.0780 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	14.0800 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	14.0900 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
FST4W	14.0956 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	14.0956 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
Beacon	14.1000 MHz	CW carrier	International Beacon Project; avoid transmitting on the beacon frequency. [ncdx]
SSTV	14.2300 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]

17 m | 18.0680 MHz - 18.1680 MHz



18.0680 MHz18.1680 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- No Technician or Novice privileges. Keep the complete emitted signal inside the authorized segment.

FCC privileges

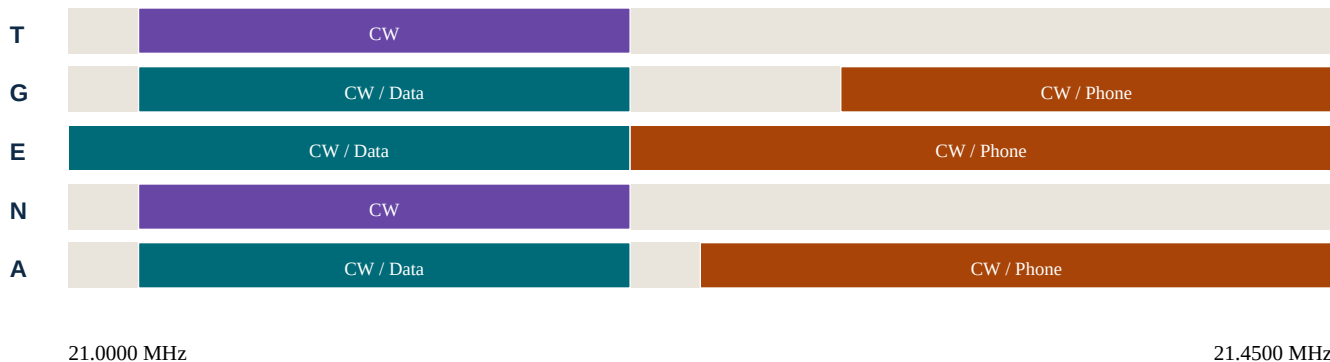
License	Limits	Emissions	Power / conditions
G, A, E	18.0680 MHz - 18.1100 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
G, A, E	18.1100 MHz - 18.1680 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JT TY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FT8	18.1000 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	18.1020 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	18.1040 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	18.1040 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	18.1040 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
FST4W	18.1046 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	18.1046 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
Beacon	18.1100 MHz	CW carrier	International Beacon Project; avoid transmitting on the beacon frequency. [ncdxf]

15 m | 21.0000 MHz - 21.4500 MHz



Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- All occupied emissions must remain inside the segment authorized to your control operator.

FCC privileges

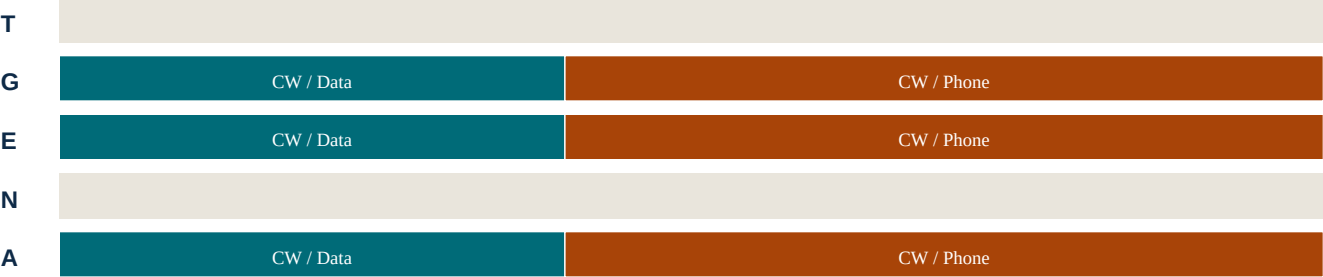
License	Limits	Emissions	Power / conditions
E	21.0000 MHz - 21.2000 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
E	21.2000 MHz - 21.4500 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
A	21.0250 MHz - 21.2000 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
A	21.2250 MHz - 21.4500 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
G	21.0250 MHz - 21.2000 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
G	21.2750 MHz - 21.4500 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
N, T	21.0250 MHz - 21.2000 MHz	CW	200 W PEP maximum. International Morse CW only; FT8, JT8, JT9 and other data are not permitted here for Technician/Novice.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JT8, JT9 and other data are not permitted here for Technician/Novice. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FT8	21.0740 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	21.0760 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	21.0780 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT8	21.0900 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
FST4W	21.0946 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	21.0946 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	21.1400 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
Beacon	21.1500 MHz	CW carrier	International Beacon Project; avoid transmitting on the beacon frequency. [ncdxf]
SSTV	21.3400 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]

12 m | 24.8900 MHz - 24.9900 MHz



24.8900 MHz 24.9900 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- No Technician or Novice privileges. Keep the complete emitted signal inside the authorized segment.

FCC privileges

License	Limits	Emissions	Power / conditions
G, A, E	24.8900 MHz - 24.9300 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
G, A, E	24.9300 MHz - 24.9900 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JT TY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FT8	24.9150 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	24.9170 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	24.9190 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	24.9190 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	24.9200 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
FST4W	24.9246 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	24.9246 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
Beacon	24.9300 MHz	CW carrier	International Beacon Project; avoid transmitting on the beacon frequency. [ncdxf]

10 m | 28.0000 MHz - 29.7000 MHz

T	CW / Data		
G	CW / Data	CW / Phone	CW / Phone
E	CW / Data	CW / Phone	CW / Phone
N	CW / Data		
A	CW / Data	CW / Phone	CW / Phone

28.0000 MHz

29.7000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- Technician and Novice digital privileges are limited to 28.000-28.300 MHz; their SSB phone privileges end at 28.500 MHz.

FCC privileges

License	Limits	Emissions	Power / conditions
G, A, E	28.0000 MHz - 28.3000 MHz	CW, RTTY, Data	1500 W PEP maximum; use the minimum needed.
G, A, E	28.3000 MHz - 29.0000 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed. Below 29 MHz, angle-modulation index restrictions apply.
G, A, E	29.0000 MHz - 29.7000 MHz	CW, Phone, Image	1500 W PEP maximum; use the minimum needed.
N, T	28.0000 MHz - 28.3000 MHz	CW, RTTY, Data	200 W PEP maximum.
N, T	28.3000 MHz - 28.5000 MHz	CW, SSB phone	200 W PEP maximum. Phone restricted to J3E/R3E (SSB); no FM or image for Novice/Technician.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTty entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
FT8	28.0740 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	28.0760 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	28.0780 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	28.0900 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
FST4W	28.1246 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	28.1246 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	28.1800 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
Beacon	28.2000 MHz	CW carrier	International Beacon Project; avoid transmitting on the beacon frequency. [ncdxf]
SSTV	28.6800 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]
FM calling	29.6000 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]

6 m | 50.0000 MHz - 54.0000 MHz

T	Mixed	Mixed
G	Mixed	Mixed
E	Mixed	Mixed
N		
A	Mixed	Mixed

50.0000 MHz

54.0000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- 50.000-50.100 MHz is CW only, apart from brief test emissions allowed by 97.305(b). Follow regional repeater plans.

FCC privileges

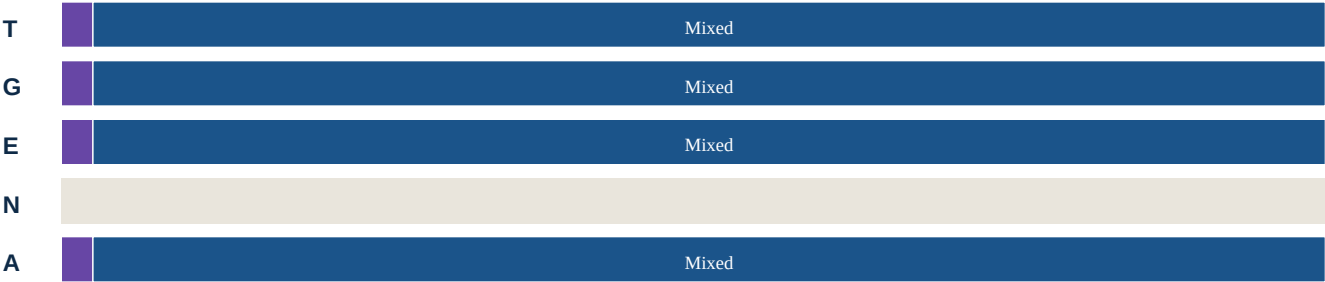
License	Limits	Emissions	Power / conditions
T, G, A, E	50.0000 MHz - 50.1000 MHz	CW	1500 W PEP maximum; use the minimum needed.
T, G, A, E	50.1000 MHz - 51.0000 MHz	CW, MCW, Phone, Image, RTTY, Data	1500 W PEP maximum; use the minimum needed.
T, G, A, E	51.0000 MHz - 54.0000 MHz	CW, MCW, Phone, Image, RTTY, Data, Test	1500 W PEP maximum; use the minimum needed.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTYY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
SSB calling	50.1250 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]
JTTY	50.1600 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
MSK144	50.2600 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
Q65	50.2750 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	50.2760 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FST4W	50.2930 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	50.2930 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT65	50.3100 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JT9	50.3120 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT8	50.3130 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT4	50.3180 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FM calling	52.5250 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]

2 m | 144.0000 MHz - 148.0000 MHz



144.0000 MHz148.0000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- 144.000-144.100 MHz is CW only, apart from brief test emissions allowed by 97.305(b). Repeater pairings vary locally.

FCC privileges

License	Limits	Emissions	Power / conditions
T, G, A, E	144.0000 MHz - 144.1000 MHz	CW	1500 W PEP maximum; use the minimum needed.
T, G, A, E	144.1000 MHz - 148.0000 MHz	CW, MCW, Phone, Image, RTTY, Data, Test	1500 W PEP maximum; use the minimum needed.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTYY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
JT65	144.1200 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
MSK144	144.1500 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
JTTY	144.1600 MHz	USB dial	Provisional WSJT-X development default; confirm current software and activity. [wsjtx]
FT4	144.1700 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FT8	144.1740 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
Q65	144.1800 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
SSB calling	144.2000 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]
APRS	144.3900 MHz	FM dial	Common North American terrestrial APRS channel; regional exceptions apply. [aprs]
FST4W	144.4890 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	144.4890 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
FM calling	146.5200 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]

1.25 m | 219.0000 MHz - 225.0000 MHz

T	Special		Mixed
G	Special		Mixed
E	Special		Mixed
N			Mixed
A	Special		Mixed

219.0000 MHz

225.0000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- 220-222 MHz is not allocated to US amateurs. The 219-220 MHz allocation is not available for ordinary voice or general-purpose packet.

FCC privileges

License	Limits	Emissions	Power / conditions
T, G, A, E	219.0000 MHz - 220.0000 MHz	Data	50 W PEP maximum. Fixed point-to-point digital message forwarding only. ARRL notification at least 30 days in advance. Additional AMTS notification within 640 km; written AMTS approval within 80 km. See 97.303(l).
T, G, A, E	222.0000 MHz - 225.0000 MHz	CW, MCW, Phone, Image, RTTY, Data, SS, Test	1500 W PEP maximum; use the minimum needed.
N	222.0000 MHz - 225.0000 MHz	CW, MCW, Phone, Image, RTTY, Data, SS, Test	25 W PEP maximum; spread spectrum 10 W output maximum.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTTY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
JT65	222.0650 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
SSB/CW calling	222.1000 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]
FT8	222.1740 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]

70 cm | 420.0000 MHz - 450.0000 MHz

T	Mixed
G	Mixed
E	Mixed
N	
A	Mixed

420.0000 MHz

450.0000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- Protect radiolocation users; national usage suggestions do not replace regional coordination.
- 420-430 MHz unavailable north of Line A (near the Canadian border). Certain military coordination areas have a 50 W PEP limit unless specially authorized. Satellite/telecommand use at 435-438 MHz has separate ERP/elevation limits in 97.313(f).

FCC privileges

License	Limits	Emissions	Power / conditions
T, G, A, E	420.0000 MHz - 450.0000 MHz	CW, MCW, Phone, Image, RTTY, Data, SS, Test	1500 W PEP maximum; use the minimum needed. Spread spectrum: maximum 10 W transmitter output. Secondary to radiolocation; regional restrictions apply.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JTTY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
JT65	432.0650 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
SSB/CW calling	432.1000 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]
FT8	432.1740 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	432.3000 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
MSK144	432.3600 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
Satellite	436.5000 MHz	Region reference	435-438 MHz satellite segment reference, not a universal satellite channel. Obtain current satellite uplink/downlink and Doppler data from AMSAT. [amsat]
FM calling	446.0000 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]

33 cm | 902.0000 MHz - 928.0000 MHz

T	Mixed
G	Mixed
E	Mixed
N	
A	Mixed

902.0000 MHz

928.0000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- Secondary service. Protect US government, FCC Location and Monitoring Service, and foreign fixed users. Accept ISM interference.
- No operation inside the Texas/New Mexico rectangle bounded by 31 deg 41'-34 deg 30' N and 104 deg 11'-107 deg 30' W. Within 241 km of White Sands Missile Range boundaries: maximum 50 W PEP outside the prohibited rectangle.
- In the Colorado/Wyoming rectangle 39 deg -42 deg N, 103 deg -108 deg W, do not use 902.4-902.6, 904.3-904.7, 925.3-925.7 or 927.3-927.7 MHz. See 97.303(n) and 97.313(g).

FCC privileges

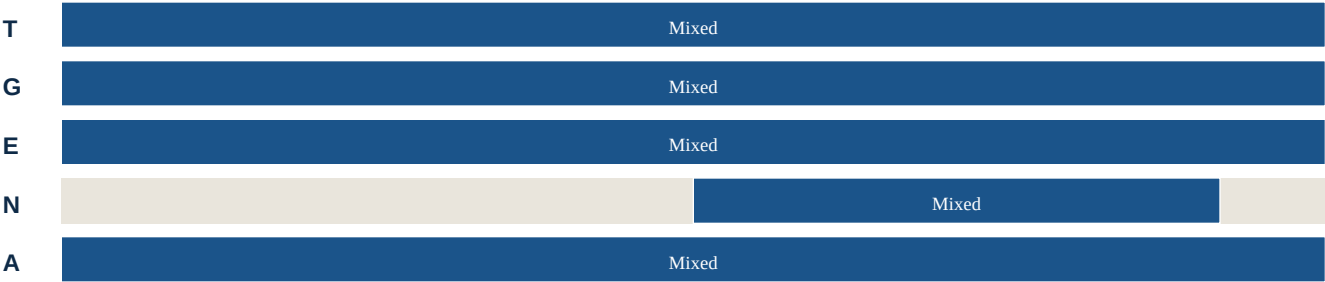
License	Limits	Emissions	Power / conditions
T, G, A, E	902.0000 MHz - 928.0000 MHz	CW, MCW, Phone, Image, RTTY, Data, SS, Test, Pulse	1500 W PEP maximum; use the minimum needed. Spread spectrum: maximum 10 W transmitter output. Secondary to radiolocation; regional restrictions apply.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JT65 entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
JT65	902.0650 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
SSB/CW calling	902.1000 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]
SSB/CW calling	903.1000 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]

23 cm | 1240.0000 MHz - 1300.0000 MHz



1240.0000 MHz1300.0000 MHz

Widths proportional within this band. Exact ranges and special conditions below take priority.

Band conditions

- Secondary to radiolocation and specified radionavigation/satellite services. Protect FAA radars; practical local restrictions may apply. See 97.303(b), (d) and (o).
- Novice access only 1270-1295 MHz at 5 W PEP; other listed classes have the full band subject to sharing requirements.

FCC privileges

License	Limits	Emissions	Power / conditions
T, G, A, E	1240.0000 MHz - 1300.0000 MHz	CW, MCW, Phone, Image, RTTY, Data, SS, Test	1500 W PEP maximum; use the minimum needed. Spread spectrum: maximum 10 W transmitter output. Secondary to radiolocation; regional restrictions apply.
N	1270.0000 MHz - 1295.0000 MHz	CW, MCW, Phone, Image, RTTY, Data, SS, Test	5 W PEP maximum.

Customary operating references

USB dial is not RF center. All occupied emissions must fit your privileges. JT TY entries provisional. Mode labels do not override license restrictions in the table above.

Mode	Frequency	Type	Notes / source
JT65	1296.0650 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
SSB/CW calling	1296.1000 MHz	Carrier / calling	Customary operating reference; listen first and follow local coordination. [arrl]
FT8	1296.1740 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]
WSPR	1296.5000 MHz	USB dial	Customary software default; listen before transmitting. [wsjtx]

Sources and maintenance

[fcc] FCC Part 97: privileges, sharing, emissions and power

<https://www.ecfr.gov/current/title-47/chapter-I/subchapter-D/part-97>

[wsjtx] WSJT-X frequency defaults (development snapshot; JTTY provisional)

<https://github.com/WSJTX/wsjtx/blob/9d059511f77e2d1be746ebfeaa7f88e77c1babb7/models/FrequencyList.cpp>

[guide] WSJT-X User Guide, including JTTY

<https://wsjtx.github.io/wsjtx/guide-full.html>

[arrl] ARRL voluntary band plans

<https://www.arrl.org/band-plan>

[ncdxf] NCDXF International Beacon Project

<https://www.ncdxf.org/beacon/>

[aprs] APRS operating reference

<https://www.aprs.org/>

[amsat] AMSAT satellite status and frequency references

<https://www.amsat.org/status/>

[utc] UTC PLC amateur notification

<https://utc.org/plc-database-amateur-notification-process/>

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