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§ 97.221 Automatically controlled digital station.

(a) This rule section does not apply to an auxiliary station, a beacon station, a repeater station, an earth station, a space station, or a space telecommand station.

(b) A station may be automatically controlled while transmitting a RTTY or data emission on the 6 m or shorter wavelength bands, and on the 28.120–28.189 MHz, 24.925–24.930 MHz, 21.090–21.100 MHz, 18.105–18.110 MHz, 14.0950–14.0995 MHz, 14.1005–14.112 MHz, 10.140–10.150 MHz, 7.100–7.105 MHz, or 3.585–3.600 MHz segments.

(c) Except for channels specified in § 97.303(h), a station may be automatically controlled while transmitting a RTTY or data emission on any other frequency authorized for such emission types provided that:

(1) The station is responding to interrogation by a station under local or remote control; and

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(2) No transmission from the automatically controlled station occupies a bandwidth of more than 500 Hz.

[60 FR 26001, May 16, 1995, as amended at 72 FR 3082, Jan. 24, 2007; 77 FR 5412, Feb. 3, 2012]

Subpart D—Technical Standards

§ 97.301 Authorized frequency bands.

The following transmitting frequency bands are available to an amateur station located within 50 km of the Earth's surface, within the specified ITU Region, and outside any area where the amateur service is regulated by any authority other than the FCC.

(a) For a station having a control operator who has been granted a Technician, General, Advanced, or Amateur Extra Class operator license or who holds a CEPT radio-amateur license or IARP of any class:

Wavelength band	ITU region 1	ITU region 2	ITU region 3	Sharing requirements see § 97.303 (paragraph)
VHF	MHz	MHz	MHz	
6 m .....	.....	50–54	50–54	(a)
2 m	144–146	144–148	144–148	(a), (k)
1.25 m .....	.....	219–220 .....	.....	(l)
Do .....	.....	222–225 .....	.....	(a)
UHF	MHz	MHz	MHz	
70 cm	430–440	420–450	430–440	(a), (b), (m)
33 cm .....	.....	902–928 .....	.....	(a), (b), (e), (n)
23 cm	1240–1300	1240–1300	1240–1300	(b), (d), (o)
13 cm	2300–2310	2300–2310	2300–2310	(d), (p)
Do	2390–2450	2390–2450	2390–2450	(d), (e), (p)
SHF	GHz	GHz	GHz	
9 cm .....	.....	3.3–3.5	3.3–3.5	(a), (b), (f), (q)
5 cm	5.650–5.850	5.650–5.925	5.650–5.850	(a), (b), (e), (r)
3 cm	10.0–10.5	10.0–10.5	10.0–10.5	(a), (b), (k)
1.2 cm	24.00–24.25	24.00–24.25	24.00–24.25	(b), (d), (e)
EHF	GHz	GHz	GHz	
6 mm	47.0–47.2	47.0–47.2	47.0–47.2	(c), (f), (s)
4 mm	76–81	76–81	76–81	(e), (t)
2.5 mm	122.25–123.00	122.25–123.00	122.25–123.00	(c), (f)
2 mm	134–141	134–141	134–141	(c), (e), (f)
1 mm	241–250	241–250	241–250	(f)
.....	Above 275	Above 275	Above 275	

(b) For a station having a control operator who has been granted an Amateur Extra Class operator license, who

holds a CEPT radio amateur license, or who holds a Class 1 IARP license:

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MF	kHz	kHz	kHz	
160 m	1810–1850	1800–2000	1800–2000	(a), (c), (g)
HF	MHz	MHz	MHz	
80 m	3.500–3.600	3.500–3.600	3.500–3.600	(a)
75 m	3.600–3.800	3.600–4.000	3.600–3.900	(a)
60 m		See § 97.303(h)		(h)
40 m	7.000–7.200	7.000–7.300	7.000–7.200	(i)
30 m	10.100–10.150	10.100–10.150	10.100–10.150	(j)
20 m	14.000–14.350	14.000–14.350	14.000–14.350	
17 m	18.068–18.168	18.068–18.168	18.068–18.168	
15 m	21.000–21.450	21.000–21.450	21.000–21.450	
12 m	24.890–24.990	24.890–24.990	24.890–24.990	
10 m	28.000–29.700	28.000–29.700	28.000–29.700	

(c) For a station having a control operator who has been granted an operator license of Advanced Class:

Wavelength band	ITU region 1	ITU region 2	ITU region 3	Sharing requirements <i>see</i> § 97.303 (Paragraph)
MF	kHz	kHz	kHz	
160 m	1810–1850	1800–2000	1800–2000	(a), (c), (g)
HF	MHz	MHz	MHz	
80 m	3.525–3.600	3.525–3.600	3.525–3.600	(a)
75 m	3.700–3.800	3.700–4.000	3.700–3.900	(a)
60 m		See § 97.303(h)		(h)
40 m	7.025–7.200	7.025–7.300	7.025–7.200	(i)
30 m	10.100–10.150	10.100–10.150	10.100–10.150	(j)
20 m	14.025–14.150	14.025–14.150	14.025–14.150	
Do	14.175–14.350	14.175–14.350	14.175–14.350	
17 m	18.068–18.168	18.068–18.168	18.068–18.168	
15 m	21.025–21.200	21.025–21.200	21.025–21.200	
Do	21.225–21.450	21.225–21.450	21.225–21.450	
12 m	24.890–24.990	24.890–24.990	24.890–24.990	
10 m	28.000–29.700	28.000–29.700	28.000–29.700	

(d) For a station having a control operator who has been granted an operator license of General Class:

Wavelength band	ITU region 1	ITU region 2	ITU region 3	Sharing requirements <i>see</i> § 97.303 (paragraph)
MF	kHz	kHz	kHz	
160 m	1810–1850	1800–2000	1800–2000	(a), (c), (g)
HF	MHz	MHz	MHz	
80 m	3.525–3.600	3.525–3.600	3.525–3.600	(a)
75 m		3.800–4.000	3.800–3.900	(a)
60 m		See § 97.303(h)		(h)
40 m	7.025–7.125	7.025–7.125	7.025–7.125	(i)
Do	7.175–7.200	7.175–7.300	7.175–7.200	(i)
30 m	10.100–10.150	10.100–10.150	10.100–10.150	(j)
20 m	14.025–14.150	14.025–14.150	14.025–14.150	
Do	14.225–14.350	14.225–14.350	14.225–14.350	
17 m	18.068–18.168	18.068–18.168	18.068–18.168	
15 m	21.025–21.200	21.025–21.200	21.025–21.200	
Do	21.275–21.450	21.275–21.450	21.275–21.450	
12 m	24.890–24.990	24.890–24.990	24.890–24.990	
10 m	28.000–29.700	28.000–29.700	28.000–29.700	

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(e) For a station having a control operator license of Novice Class or Technician Class:

Wavelength band	ITU region 1	ITU region 2	ITU region 3	Sharing requirements <i>see</i> § 97.303 (paragraph)
HF	MHz	MHz	MHz	
80 m	3.525–3.600	3.525–3.600	3.525–3.600	(a) (i)
40 m	7.025–7.125	7.025–7.125	7.025–7.125	
15 m	21.025–21.200	21.025–21.200	21.025–21.200	
10 m	28.0–28.5	28.0–28.5	28.0–28.5	
VHF	MHz	MHz	MHz	
1.25 m		222–225		(a)
UHF	MHz	MHz	MHz	
23 cm	1270–1295	1270–1295	1270–1295	(d), (o)

[75 FR 27201, May 14, 2010, as amended at 75 FR 78171, Dec. 15, 2010]

§ 97.303 Frequency sharing requirements.

The following paragraphs summarize the frequency sharing requirements that apply to amateur stations transmitting in the frequency bands specified in § 97.301 of this part. Each frequency band allocated to the amateur service is designated as either a secondary service or a primary service. A station in a secondary service must not cause harmful interference to, and must accept interference from, stations in a primary service.

(a) Where, in adjacent ITU Regions or sub-Regions, a band of frequencies is allocated to different services of the same category (*i.e.*, primary or secondary services), the basic principle is the equality of right to operate. Accordingly, stations of each service in one Region or sub-Region must operate so as not to cause harmful interference to any service of the same or higher category in the other Regions or sub-Regions.

(b) Amateur stations transmitting in the 70 cm band, the 33 cm band, the 23 cm band, the 9 cm band, the 5 cm band, the 3 cm band, or the 24.05–24.25 GHz segment must not cause harmful interference to, and must accept interference from, stations authorized by the United States Government in the radiolocation service.

(c) Amateur stations transmitting in the 1900–2000 kHz segment, the 76–77.5 GHz segment, the 78–81 GHz segment, the 136–141 GHz segment, or the 241–248 GHz segment must not cause harmful

interference to, and must accept interference from, stations authorized by the United States Government, the FCC, or other nations in the radiolocation service.

(d) Amateur stations transmitting in the 430–450 MHz segment, the 23 cm band, the 3.3–3.4 GHz segment, the 5.65–5.85 GHz segment, the 13 cm band, or the 24.05–24.25 GHz segment, must not cause harmful interference to, and must accept interference from, stations authorized by other nations in the radiolocation service.

(e) Amateur stations receiving in the 33 cm band, the 2400–2450 MHz segment, the 5.725–5.875 GHz segment, the 1.2 cm band, the 2.5 mm band, or the 244–246 GHz segment must accept interference from industrial, scientific, and medical (ISM) equipment.

(f) Amateur stations transmitting in the following segments must not cause harmful interference to radio astronomy stations: 3.332–3.339 GHz, 3.3458–3.3525 GHz, 76–77.5 GHz, 78–81 GHz, 136–141 GHz, 241–248 GHz, 275–323 GHz, 327–371 GHz, 388–424 GHz, 426–442 GHz, 453–510 GHz, 623–711 GHz, 795–909 GHz, or 926–945 GHz. In addition, amateur stations transmitting in the following segments must not cause harmful interference to stations in the Earth exploration-satellite service (passive) or the space research service (passive): 275–277 GHz, 294–306 GHz, 316–334 GHz, 342–349 GHz, 363–365 GHz, 371–389 GHz, 416–434 GHz, 442–444 GHz, 496–506 GHz, 546–568 GHz, 624–629 GHz, 634–654 GHz, 659–661