

**§ 101.805**

**Notes**

(1) This frequency band is shared with stations in the Point to Point Microwave Radio Service and, in United States Possessions in the Caribbean area, with stations in the International Fixed Radiocommunications Services.

(2) This frequency band is shared with fixed and mobile stations licensed under this and other parts of the Commission's rules.

(3) This frequency band is shared with space stations (space to earth) in the fixed-satellite service. As of March 1, 2005, no new LTTS operators will be licensed in the 11.7-12.2 GHz band. LTTS operators authorized prior to March 1, 2005 may continue to operate in 11.7-12.2 GHz band until their license expires; no existing LTTS licenses will be renewed in the 11.7-12.2 GHz band.

(4) This frequency band is shared with Government stations.

(5) This frequency band is shared with earth stations (earth to space) in the fixed-satellite services.

(6) The band segments 10.95-11.2 and 11.45-11.7 GHz are shared with space stations (space to earth) in the fixed-satellite service.

(7) This frequency band is shared with space stations (space to earth) in the earth exploration satellite service.

(8) This frequency band is shared with the common carrier and private-operational fixed point-to-point microwave services.

(9) As of June 30, 1997, frequencies in this band only are available for assignment to LMDS radio stations, except for non-LMDS stations authorized pursuant to applications refiled no later than June 26, 1998. Stations authorized prior to June 30, 1997, may continue to operate within the existing terms of the outstanding licenses, subject to renewal. Non-LMDS stations authorized pursuant to applications refiled no later than June 26, 1998 shall operate on an unprotected basis and subject to harmful interference from each other or stations licensed prior to June 30, 1997, and on a secondary basis to LMDS radio stations.

(e) *6425 to 6525 MHz—Mobile Only.* Paired and un-paired operations permitted. Use of this spectrum for direct delivery of video programs to the general public or for multi-channel cable distribution is not permitted. This band is co-equally shared with mobile stations licensed pursuant to parts 74 and 78 of this chapter. The following channel plans apply.

(1) 1 MHz maximum authorized bandwidth channels.

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Transmit (or receive) (MHz)	Receive (or transmit) (MHz)
6425.5 .....	6475.5
6450.5 .....	6500.5

(2) 8 MHz maximum authorized bandwidth channels.

Transmit (or receive) (MHz)	Receive (or transmit) (MHz)
6430.0 .....	6480.0
6438.0 .....	6488.0
6446.0 .....	6596.0
6455.0 .....	6505.0
6463.0 .....	6513.0
6471.0 .....	6521.0

(3) 25 MHz maximum authorized bandwidth channels.

Transmit (or receive) (MHz)	Receive (or transmit) (MHz)
6437.5 .....	6487.5
6462.5 .....	6512.5

(f) The frequency 27.255 MHz in the 27.23-27.28 MHz band is allocated for assignment to microwave auxiliary stations in this service on a shared basis with other radio services. Assignments to stations on this frequency will not be protected from such interference as may be experienced from the emissions of industrial, scientific and medical equipment operating on 27.12 MHz in accordance with §2.106 of this chapter.

[61 FR 26677, May 28, 1996, as amended at 62 FR 23168, Apr. 29, 1997; 63 FR 9448, Feb. 25, 1998; 63 FR 14039, Mar. 24, 1998; 65 FR 38332, June 20, 2000; 68 FR 4961, Jan. 31, 2003; 68 FR 12777, Mar. 17, 2003; 70 FR 4788, Jan. 31, 2005]

**§ 101.805 Assignment of frequencies to mobile stations.**

The assignment of frequencies to mobile stations in this service will not be limited to a single licensee within any area. However, geographical limits within which mobile units may operate may be imposed by the Commission.

**§ 101.807 Transmitter power.**

Stations in this service will not be authorized to use transmitters having a rated power output in excess of the limits set forth in §101.113(b) and a standby transmitter having a rated power output in excess of that of the

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main transmitter with which it is associated will not be authorized. As an exception, operations on frequencies listed in §§ 74.602(a), 78.18(a)(6), and 78.18(a)(7) of this chapter are subject to the power limitations of §§ 74.636 and 78.101(a).

[68 FR 12777, Mar. 17, 2003]

**§ 101.809 Bandwidth and emission limitations.**

(a) Stations in this service operating on frequencies in the 27.23–27.28 MHz band will be authorized to employ only amplitude modulated or frequency modulated emission for radiotelephony. The authorization to use such emissions will be construed to include authority to employ unmodulated emission only for temporary or short periods necessary for equipment testing incident to the construction and maintenance of the station.

(b) Stations in the service operating on frequencies above 940 MHz may be authorized to use amplitude modulated, frequency modulated or pulse type of emission for radiotelephony and television. In addition, the use of unmodulated emission may be authorized in appropriate cases.

(c) The maximum bandwidths which will normally be authorized for single channel operation on frequencies below 500 MHz in this service must not exceed the limits set forth below:

Type of emission	Authorized bandwidth (kHz)
A3E .....	8
F3E or (G3E) .....	40

(d) Maximum bandwidths in the following frequency bands must not exceed the limits set forth below:

MAXIMUM AUTHORIZED	
Frequency band (MHz)	Bandwidth (MHz)
3,700 to 4,200 .....	1.20
5,925 to 6,425 .....	1.30
6,425 to 6,525 .....	25
10,700 to 12,200 .....	1.240
13,200 to 13,250 .....	25
21,200 to 23,600 .....	1.50

<sup>1</sup>The maximum bandwidth that will be authorized for each particular frequency in this band is detailed in the appropriate frequency table in § 101.147.

<sup>2</sup>As of March 1, 2005, no new LTTS operators will be licensed in the 11.7–12.2 GHz band. LTTS operators authorized prior to March 1, 2005 may continue to operate in 11.7–12.2 GHz band until their license expires; no existing LTTS licensees will be renewed in the 11.7–12.2 GHz band.

(e) The bandwidths authorized on frequencies above 500 MHz must be appropriate to the type of operation in any particular case. An application requesting such authorization must fully describe the modulation, emission, and bandwidth desired and must specify the bandwidth to be occupied.

[61 FR 26677, May 28, 1996, as amended at 68 FR 4961, Jan. 31, 2003; 70 FR 4788, Jan. 31, 2005]

**§ 101.811 Modulation requirements.**

(a) The use of modulating frequencies higher than 3000 hertz for single channel radiotelephony or tone signaling on frequencies below 500 MHz is not authorized.

(b) When amplitude modulation is used, the modulation percentage must be sufficient to provide efficient communication and must normally be maintained above 70 percent on positive peaks, but may not exceed 100 percent on negative peaks.

(c) When phase or frequency modulation is used for single channel radiotelephony on frequencies below 500 MHz, the deviation arising from modulation may not exceed plus or minus 15 kHz from the unmodulated carrier.

(d) Each unmultiplexed radiotelephone transmitter having more than 3 watts plate power input to the final radio frequency stage and initially installed at the station in this service after September 4, 1956, must be provided with a device that will automatically prevent modulation in excess of that specified in paragraphs (b) and (c) of this section which may be caused by greater than normal audio level.

**§ 101.813 Remote control operation of mobile television pickup stations.**

(a) Mobile television pickup stations (including nonbroadcast) may be operated by remote control from the fixed locations for periods not to exceed 6 months.

(b) The Commission may, upon adequate showing by the licensee as to why the television pickup operations should not be conducted under a fixed