21935	/2/	23135	/2/
21945	/2/	23145	/2/
21955	/2/	23155	/2/
21965	/2/	23165	/2/
21975	/2/	23175	/2/
21985	/2/	23185	/2/
21995	/2/	23195	/2/
22005		23205	
22015		23215	
22025		23225	
22035		23235	
22045		23245	
22055		23255	
22065		23265	
22075		23275	
22085		23285	
22095		23295	
22105		23305	
22115		23315	
22125		23325	
22135		23335	
22145		23345	
22155		23355	
22165		23365	
22175		23375	
22185		23385	
22195		23395	
22205		23405	
22215		23415	
22225		23425	
22235		23435	
22245		23445	
22255		23455	
22265		23465	
22275		23475	
22285		23485	
22295		23495	
22305	/1/	23505	/1/
22315	/1/	23515	/1/
22325	/1/	23525	/1/
22335	/1/	23535	/1/
22345	/1/	23545	/1/
22355	/1/	23555	/1/
22365	/1/	23565	/1/
22375	/1/	23575	/1/
22385	/1/	23585	/1/
22395	/1/	23595	/1/

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

/2/ These frequencies may be assigned to low power systems, as defined in paragraph (8) of this section.

(4) 20 MHz bandwidth channels:

TRANSMIT (receive) (MHz)		RECEIVE (transmit) (MHz)	
21210		22410	
21230		22430	
21260		22460	
21280		22480	
21310		22510	
21330		22530	
21360		22560	
21380		22580	
21410		22610	
21430		22630	
21460		22660	
21480		22680	
21510		22710	
21530		22730	
21560		22760	
21580		22780	
21610	/1/	22810	/1/
21630	/1/	22830	/1/
21660	/1/	22860	/1/
21680	/1/	22880	/1/
21710	/1//2/	22910	/1//2/
21730	/1//2/	22930	/1//2/
21760	/1//2/	22960	/1//2/
21780	/1//2/	22980	/1//2/
21810	/2/	23010	/2/
21830	/2/	23030	/2/
21860	/2/	23060	/2/
21880	/2/	23080	/2/
21910	/2/	23110	/2/
21930	/2/	23130	/2/
21960	/2/	23160	/2/
21980	/2/	23180	/2/
22010		23210	
22030		23230	
22060		23260	
22080		23280	
22110		23310	
22130		23330	
22160		23360	
22180		23380	
22210		23410	
22230		23430	
22260		23460	
22280		23480	
22310	/1/	23510	/1/
22330	/1/	23530	/1/
22360	/1/	23560	/1/
22380	/1/	23580	/1/

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

/2/ These frequencies may be assigned to low power systems, as defined in paragraph (8) of this section.

(5) 30 MHz bandwidth channels:

TRANSMIT (receive) (MHz)		RECEIVE (transmit) (MHz)	
21235		22435	
21285		22485	
21335		22535	
21385		22585	
21435		22635	
21485		22685	
21535		22735	
21585		22785	
21635	/1/	22835	/1/
21685	/1/	22885	/1/
21735	/1//2/	22935	/1//2/
21785	/1//2/	22985	/1//2/
21835	/2/	23035	/2/
21885	/2/	23085	/2/
21935	/2/	23135	/2/
21985	/2/	23185	/2/
22035		23235	
22085		23285	
22135		23335	
22185		23385	
22235		23435	
22285		23485	
22335	/1/	23535	/1/
22385	/1/	23585	/1/

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

/2/ These frequencies may be assigned to low power systems, as defined in paragraph (8) of this section.

(6) 40 MHz bandwidth channels:

TRANSMIT (receive) (MHz)		RECEIVE (transmit) (MHz)	
21220		22420	
21270		22470	
21320		22520	
21370		22570	
21420		22620	
21470		22670	
21520		22720	
21570		22770	
21620	/1/	22820	/1/
21670	/1/	22870	/1/
21720	/1//2/	22920	/1//2/
21770	/1//2/	22970	/1//2/
21820	/2/	23020	/2/
21870	/2/	23070	/2/
21920	/2/	23120	/2/
21970	/2/	23170	/2/
22020		23220	
22070		23270	
22120		23320	
22170		23370	
22220		23420	
22270		23470	
22320	/1/	23520	/1/
22370	/1/	23570	/1/

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

/2/ These frequencies may be assigned to low power systems, as defined in paragraph (8) of this section.

(7) 50 MHz bandwidth channels:

TRANSMIT (receive) (MHz)		RECEIVE (transmit) (MHz)	
21225		22425	
21275		22475	
21325		22525	
21375		22575	
21425		22625	
21475		22675	
21525		22725	
21575		22775	
21625	/1/	22825	/1/
21675	/1/	22875	/1/
21725	/1//2/	22925	/1//2/
21775	/1//2/	22975	/1//2/
21825	/2/	23025	/2/
21875	/2/	23075	/2/
21925	/2/	23125	/2/
21975	/2/	23175	/2/
22025		23225	
22075		23275	
22125		23325	
22175		23375	
22225		23425	
22275		23475	
22325	/1/	23525	/1/
22375	/1/	23575	/1/

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

/2/ These frequencies may be assigned to low power systems, as defined in paragraph (8) of this section.

(8) *Special provisions for low power, limited coverage systems in the 21.2-23.6 GHz band.* Notwithstanding any contrary provisions in this part, the frequencies from 21.7-22.0 GHz and 22.9-23.2 GHz may be authorized for low power, limited coverage systems subject to the following provisions:

(i) The maximum EIRP shall be 55 dBm.

(ii) In the band segments from 21.8-22.0 GHz and 23.0-23.2 GHz, the frequency tolerance for stations authorized on or before ***[24 months after the effective date of the new rules]*** is 0.05%. Existing licensees and pending applicants on that date may continue to operate after that date with a frequency tolerance of 0.05%, provided that it does not cause harmful interference to the operation of any other licensee. The frequency tolerance of §101.107(a) shall apply to stations applied for after ***[24 months after the effective date of the new rules].***

(iii) Stations authorized on or before ***[24 months after the effective date of the new rules]*** shall meet the following antenna standards:

(A) The maximum beamwidth shall not exceed 4 degrees; and

(B) The sidelobe suppression criteria contained in §101.115 of this part shall not apply, except that a minimum front-to-back ratio of 38 dB shall apply.

(iv) Stations applied for after ***[24 months after the effective date of the new rules]*** shall meet the antenna standards of §101.115. Existing licensees and pending applicants on that date may continue to operate after that date with antennas meeting the requirements of paragraph (iii) of this section.

(t) * * *

* * * * *

11. Section 101.803 is amended by revising footnote /5/ and adding footnote /8/ to paragraph (a), and revising footnote /8/ of paragraph (d), to read as follows:

§ 101.803 Frequencies.

(a) Frequencies in the following bands are available for assignment to television pickup and television non-broadcast pickup stations in this service:

```
6,425  to  6,525 MHz.   /6/
11,700 to 12,200 MHz.   /3/
13,200 to 13,250 MHz.   /1/
14,200 to 14,400 MHz.   /8/
21,200 to 22,000 MHz.   /1/ /2/ /4/ /5/
22,000 to 23,600 MHz.   /1/ /2/ /5/
31,000 to 31,300 MHz.   /7/
```

* * * * *

/5/ This frequency band is shared with the common carrier and private-operational fixed point-to-point microwave services.

/6/ * * *

/7/ * * *

/8/ The maximum power for the local television transmission service in the 14.2-14.4 GHz band is +45 dBW, except that operations are not permitted within 1.5 degrees of the geostationary orbit.

* * * * *

(d) * * *

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

* * * * *

10. Section 101.809, paragraph (d), is amended to read as follows:

§ 101.809 Bandwidth and emission limitations.

* * * * *

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

Frequency band (MHz)	Maximum Authorized Bandwidth (MHz)	
3,700 to 4,200	20	/1/
5,925 to 6,425	30	/1/
6,425 to 6,525	25	
10,700 to 12,200	40	/1/
13,200 to 13,250	25	
21,200 to 23,600	50	/1/

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

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