

## § 18.209

(3) Maximum RF energy generated.  
(4) Electrical power requirements of equipment.

(5) Any other pertinent operating characteristics.

(f) A report of measurements, including a list of the measuring equipment used, and a statement of the date when the measuring equipment was last calibrated and when the measurements were made. The frequency range that was investigated in obtaining the report of measurements shall be indicated. See also §§ 18.309 and 18.311.

[50 FR 36067, Sept. 5, 1985, as amended at 63 FR 36603, July 7, 1998]

### § 18.209 Identification of authorized equipment.

Each device for which a grant of equipment authorization is issued under this part shall be identified pursuant to the applicable provisions of subpart J of part 2 of this chapter.

[82 FR 50834, Nov. 2, 2017]

### § 18.211 Multiple listing of equipment.

(a) When the same or essentially the same equipment will be marketed under more than one FCC Identifier, equipment authorization must be requested on an FCC Form 731 for each FCC Identifier.

(b) If equipment authorization for additional FCC Identifiers is requested in the initial application, a statement shall be included describing how these additional devices differ from the basic device which was measured and stating that the report of measurements submitted for the basic device applies also to the additional devices.

(c) If equipment authorization for additional FCC Identifiers is requested after a grant has been issued by the FCC for the basic device, the application may, in lieu of the report of measurements, be accompanied by a statement including:

(1) FCC Identifier of device for which measurements are on file with the FCC.

(2) Date when equipment authorization was granted for the device(s) listed under paragraph (c)(1) of this section and the file number of such grant.

(3) Description of the difference between the device listed under para-

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graph (c)(1) of this section and the additional device(s).

(4) A statement that the report of measurements filed for the device listed under paragraph (c)(1) of this section applies also to the additional device(s).

(5) Photographs pursuant to § 2.1033(c).

### § 18.212 Compliance information.

(a) Equipment authorized under Supplier's Declaration of Conformity shall include a compliance statement that contains the information set forth in § 2.1077 of this chapter and a statement identical or similar to the following: “*This device complies with part 18 of the FCC Rules.*”

(b) The compliance information may be placed in the instruction manual, on a separate sheet, on the packaging, or electronically as permitted under § 2.935 of this chapter. There is no specific format for this information.

[82 FR 50834, Nov. 2, 2017]

### § 18.213 Information to the user.

Information on the following matters shall be provided to the user in the instruction manual or on the packaging if an instruction manual is not provided for any type of ISM equipment:

(a) The interference potential of the device or system

(b) Maintenance of the system

(c) Simple measures that can be taken by the user to correct interference.

(d) Manufacturers of RF lighting devices must provide an advisory statement, either on the product packaging or with other user documentation, similar to the following: This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Variations of this language are permitted provided all the points of the statement are addressed and may be presented in any legible font or text style.

[50 FR 36069, Sept. 5, 1985, as amended at 51 FR 17970, May 16, 1986; 64 FR 37419, July 12, 1999]

Subpart C—Technical Standards

[85 FR 38740, June 26, 2020]

§ 18.301 Operating frequencies.

ISM equipment may be operated on any frequency above 9 kHz except as indicated in §18.303. The following frequency bands, in accordance with §2.106 of the rules, are designated for use by ISM equipment:

TABLE 1 TO § 18.301

ISM frequency	Tolerance
6.78 MHz	± 15.0 kHz
13.56 MHz	± 7.0 kHz
27.12 MHz	± 163.0 kHz
40.68 MHz	± 20.0 kHz
915 MHz	± 13.0 MHz
2450 MHz	± 50.0 MHz
5800 MHz	± 75.0 MHz
24.125 GHz	± 125.0 MHz
61.25 GHz	± 250.0 MHz
122.50 GHz	± 500.0 MHz
245.00 GHz	± 1.0 GHz

§ 18.303 Prohibited frequency bands.

Operation of ISM equipment within the following safety, search and rescue frequency bands is prohibited: 490–510 kHz, 2170–2194 kHz, 8354–8374 kHz, 121.4–121.6 MHz, 156.7–156.9 MHz, and 242.8–243.2 MHz.

§ 18.305 Field strength limits.

(a) ISM equipment operating on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous).	Any ISM frequency	Below 500	25	300
	Any non-ISM frequency	500 or more	$25 \times \text{SQRT}(\text{power}/500)$	1300
Industrial heaters and RF stabilized arc welders.	On or below 5,725 MHz	Below 500	15	300
	Above 5,725 MHz	500 or more	$15 \times \text{SQRT}(\text{power}/500)$	1300
Medical diathermy	Any ISM frequency	Any	10	1,600
	Any non-ISM frequency	Any	( <sup>2</sup> )	( <sup>2</sup> )
Ultrasonic	Below 490 kHz	Any	25	300
		Any	15	300
Induction cooking ranges	Below 490 kHz	Below 500	$2,400/F(\text{kHz})$	300
		500 or more	$2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	1300
	490 to 1,600 kHz	Any	$24,000/F(\text{kHz})$	30
	Above 1,600 kHz	Any	15	30
Induction cooking ranges	Below 90 kHz	Any	1,500	130
	On or above 90 kHz	Any	300	130

<sup>1</sup>Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

<sup>2</sup>Reduced to the greatest extent possible.

<sup>3</sup>Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

<sup>4</sup>Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

(c) The field strength limits for RF lighting devices shall be the following:

Frequency (MHz)	Field strength limit at 30 meters (µV/m)
Non-consumer equipment:	
30–88	30
88–216	50
216–1000	70
Consumer equipment:	
30–88	10
88–216	15
216–1000	20

NOTES

1. The tighter limit shall apply at the boundary between two frequency ranges.

2. Testing for compliance with these limits may be made at closer distances, provided a sufficient number of measurements are taken to plot the radiation pattern, to determine the major lobes of radiation, and to determine the expected field strength level at 30, 300, or 1600 meters. Alternatively, if measurements are made at only one closer fixed distance, then the permissible field strength