

## FCC Emissions Designators for LoCate (LOCA01):

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Per instruction (g) of section 2.201, the necessary bandwidth is to be included before these designators for the full designation. These designations are identical to those for NJICVDM-3 and NJICVDM-2000 as noted on the FCC OET website.

### Control Channel:

Necessary bandwidth is +/-20 KHz, which has the symbol: 40K0

Symbol Number	Symbol Requirement	Choice	Designator
First	type of modulation of the carrier	Frequency Modulation	F
Second	nature of signals modulating the carrier	Single channel containing quantized or digital information without the use of a modulating sub-carrier	1
Third	Type of information to be transmitted	Data transmission, telemetry, telecommand	D

### Designator for Control Channel: 40K0F1D

### Voice Channel:

Voice Channel is analog communications, FM modulation with 15 KHz bandwidth plus a short burst of telecommand.

#### Signalling Tone and Handoff Commands:

Necessary bandwidth is +/-20 KHz, which has the symbol: 40K0

Symbol Number	Symbol Requirement	Choice	Designator
First	type of modulation of the carrier	Frequency Modulation	F
Second	nature of signals modulating the carrier	Single channel containing quantized or digital information without the use of a modulating sub-carrier	1
Third	Type of information to be transmitted	Data transmission, telemetry, telecommand	D

### Voice Channel:

#### Voice Communications:

Necessary bandwidth is +/-20 KHz, which has the symbol: 40K0

Symbol Number	Symbol Requirement	Choice	Designator
First	type of modulation of the carrier	Frequency Modulation	F
Second	nature of signals modulating the carrier	A single channel containing analogue information	3
Third	Type of information to be transmitted	Telemetry (D)	D

Signalling tone and handoff commands being F1D and the Voice Channel being F3D give the following:

**F** both are frequency modulation

**7** a combination, as both are not the same (1 and 3 are different and not otherwise designated)

**D** as both are D

**The Voice Channel designation is thus: 40K0F7D.**

The SAT (a sinusoidal signal FM modulated at +/- 2 KHz peak deviation, at 5970 Hz, 6000 Hz or 6030 Hz) is the only signal being transmitted with this device, there is no voice or modem modulation.

## **Designator for Voice Channel: 40K0F7D**

**The designators to be applied for in the FCC application for LoCate (LOCA01) are:**

<b>40K0F1D</b>
<b>40K0F7D</b>

