

### NextDent 300 Antenna Info

- [Describe compliance of the device with the antenna requirements of paragraph 15.203 of the FCC rules:](#) The 3D Systems designed antenna boards are securely mounted on a grounded sheet metal plate inside of the Material Delivery Module (MDM) drawer. An area of metal is removed beneath the antenna as to not interfere with the RF operation. Antenna replacement must be performed by a qualified 3D Systems technician and requires extensive disassembly of the MDM drawer. Specifically, remove 6 screws on back of drawer and remove the sheet metal to access coaxial SMB connectors. Then remove front drawer cover with 4 screws and remove the bottle bucket heater assembly to access the antenna board which is very involved and precise. The antennas are exposed to the tag locations on the consumable material bottles as the material bottle lowers with bottle insertion.



- A list of antennas to be used with the transmitter. Include manufacturer, model number, gain (dBi), and description:

3D Systems: DASH RFID Board, Number 3100084-02, 5 turn loop antenna with Q of 9.9, antenna impedance is 50 ohms

- Drawing or photograph unless clear photos appear in the external photos exhibit:



