

May 25, 2011

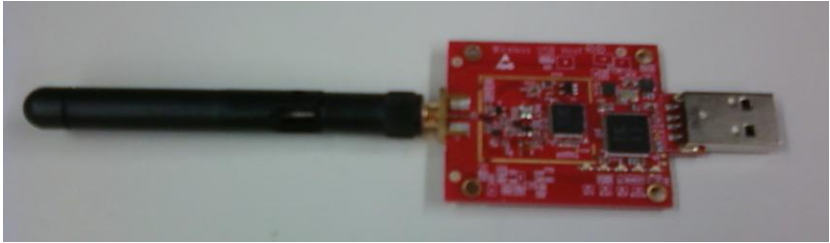
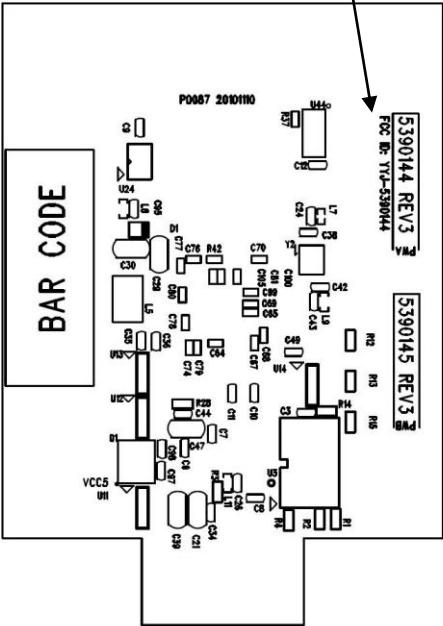
Chief, Authorizations Branch  
Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046


Modular Approval Request Letter  
FCC ID: YYJ-5390144

To Whom It may Concern:

GE Medical Systems, LLC would like to have your authorization to add on an additional frequency band for the singular limited modular certification of FCC ID YYJ-5390144. FCC authorized device YYJ-5390144 was previously certified for the frequency range 3168-4752MHz, and we would like to add the additional frequency range 6336-7920MHz. The statements in the table below explain our compliance with the eight requirements listed in 47 CFR 15.212.

47 CFR 15.212 Requirement	Statement
i	All shielding of RF emissions are mitigated by means of multilayer circuit board design that makes effective use of embedded signal layers between grounding layers for non-RF signals.
ii	Buffered data inputs are implemented within the MAC chip implementation.
iii	Power regulation from 5V for the 5390144 module is implemented at the circuit board level, using switching regulators to step the input voltage of 5V down to 3.3V, 1.6V, and 1.2V. Power regulation is also implemented within the MAC and PHY chips.

<p>iv</p>	<p>In the 5390144 module, the antenna is coupled to the circuit board by means of an SMA style coaxial connector. The antenna is glued to the connector on the circuit board so that it is permanently attached. The image shown below displays both the antenna and PCB mount connectors for the 5390144 assembly:</p>  <p>The manufacturing instructions on the assembly drawing include the following:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>12. THIS ASSEMBLY INCLUDES GE PART 5390147, UWB EXTERNAL ANTENNA. SCREW ON ANTENNA AND ADD GLUE (SUCH AS LOCKTITE 271) BETWEEN ANTENNA AND J1 TO PERMANENTLY ATTACH ANTENNA TO BOARD. ANTENNA SHOULD STILL SWIVEL, BEND.</p> </div>
<p>v</p>	<p>The 5390144 module has been tested and verified in the stand alone configuration as detailed in the accompanying test report.</p>
<p>vi</p>	<p>The 5390144 module shall be labeled by means of a permanent silk screen graphic on the bottom side of the board:</p>  <p>In addition, the module will not be visible from the outside of the systems it will be placed in. Therefore, the FCC ID will be included on the outside system label. An example of the relevant piece of one of the system labels is included below:</p>

	 <p>Contains Transmitter Modules:</p> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> <p>FCC ID: W7Z-FSTARPRO IC: 8254A-FSTARPRO</p> </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> <p>FCC ID: YYJ-5390144 IC: XXXXX-5390144 CMII ID: XXXXXXXXXXXX</p> </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> <p>FCC ID: OU5-5406102 IC: XXXXX-5406102 CMII ID: XXXXXXXXXXXX</p> </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> <p>FCC ID: PD9533ANM IC: 1000M-533ANM CMII ID: 2008AJ1177</p> </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px;"> <p>FCC ID: UFD0PI4002</p> </div>
vii	The accompanying test report details all information regarding compliance with 47 CFR part 15 subsection F.
viii	The 5390144 module complies with Maximum Permissible Exposure requirements and its calculation as detailed in the accompanying test report.



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