



Figure 8. The projected antenna radiation pattern at 3.2, 7.2 and 12.7 GHz

5. CONCLUSIONS

The Medical plus shaped antenna for S, C, X and Ku Band Applications has been developed and analyzed. The triple-band antenna has a height of only 1.6 mm. It has been demonstrated that the compact multiband antenna can cover the band of 2.79 GHz to 5.61 GHz, 6.88 GHz to 8.69 GHz and 11.43 GHz to 14.3 GHz with return loss below the -10 dB line. The intended antenna exhibits good radiation pattern over the desired operating bands of the projected antenna. The measured results of the try-band antenna closely match to the simulation results. This antenna may find wide applications in the MIMO and array antennas.

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