**CHAPTER 5**

**RESULT AND CONCLUSION**

**5.1 CONCLUSION**

Thus, the proposed model includes the design and simulation of Microstrip patch antenna with little modifications in patch and ground in order to improve the bandwidth and directivity and it is fabricated on Teflon substrate with the help of copper. The human head phantom is designed with and without tumour, tested with the proposed antenna. The various response (with and without tumour) observed by the antenna and analyzed using CST software. From the response of simulated Specific absorption rate, we analyzed the statistical differences between the normal head and the head that contains tumor. From these results we were able to accurately find the presence of tumour.

**5.2 FUTURE WORK**

The future work of this project is to find the accurate position and size of tumour. By using different material as substrate, the gain, return loss, directivity can be further increased in order to analyze very minute sized tumours. A single microstrip antenna can be converted into an array of antenna which helps to attain the accurate size of the tumour. The output can also be made of visualizing in real time with the help of proper image processing and image segmentation.