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three control methods through which we can control it through three methods:

- Manually control
- DTMF Control
- Computer control

6. Result

For obtaining the result from working model project, we connect the C.R.O probes across the working project.

Firstly for obtaining the DTMF crystal by connecting the C.R.O with the ULN2803 IC pin no. 8, which gives the output waveform for the DTMF crystal, from channel 1 in C.R.O.

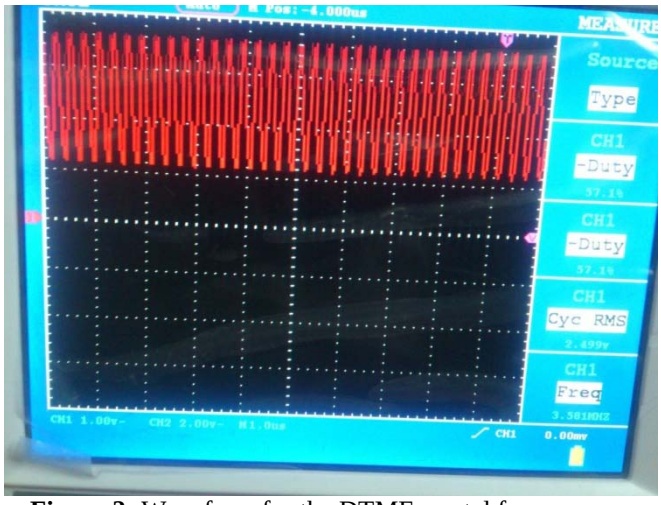

Figure 2: Waveform for the DTMF crystal frequency

Table 1: DTMF Crystal

SOURCE	CHANNEL 1	CHANNEL 1	CHANNEL 1	CHANNEL 1
TYPE	DUTY	DUTY	CYC. RMS	FREQUENCY
OUTPUT	57.10	57.10	2.499 V	3.581 MHz

DTMF is showing the waveform when we are sending tones through cell phone. That time LCD is displaying the current and voltage waveform and C.R.O is showing the Cyc. RMS value 11.0 mV and frequency is 263.8 KHz.

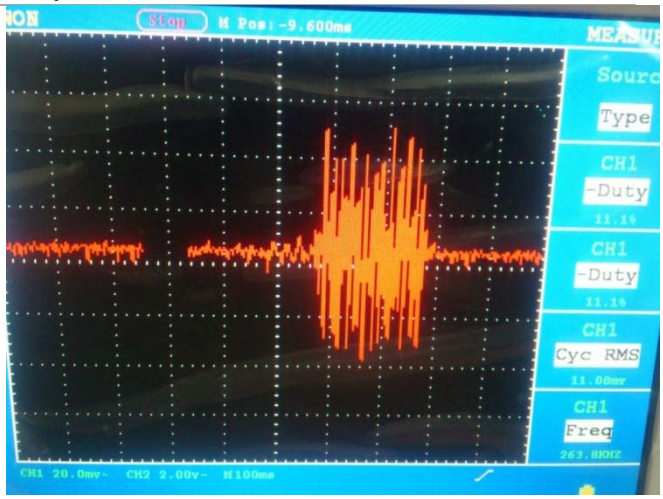

Figure 3: Receiving the DTMF waveform

Table 2: DTMF output

SOURCE	CHANNEL 1	CHANNEL 1	CHANNEL 1	CHANNEL 1
TYPE	DUTY	DUTY	CYC. RMS	FREQUENCY
OUTPUT	11.10	11.10	11.0 mV	263.8 KHz

And the received character T which is obtained after performing the serial connection with the help of computer and the received RS232 data received character t which is shown in figure. RS232 data for character T the output frequency is 2.402 KHz and the output voltage is 21.4 V. It is between the two channels channel 1 and channel 2 which is in the diagram yellow graph is for the channel 1 and red one for the channel 2. and we have successfully received the character T.

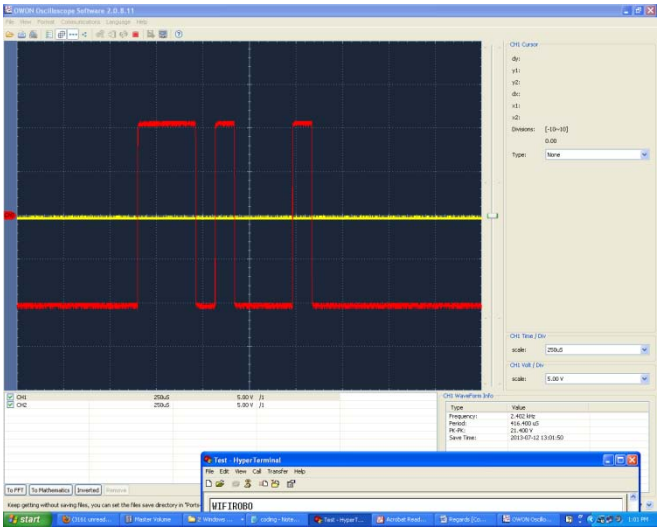

Figure 4: RS232 data received character T

The received graph after performing the task in visual basic program and in C language also the received character for the project is showing in figure. The received character T which is converted into TTL. And the output frequency for the received character TTL is 2.399 KHz and the output voltage is 5.40 V.

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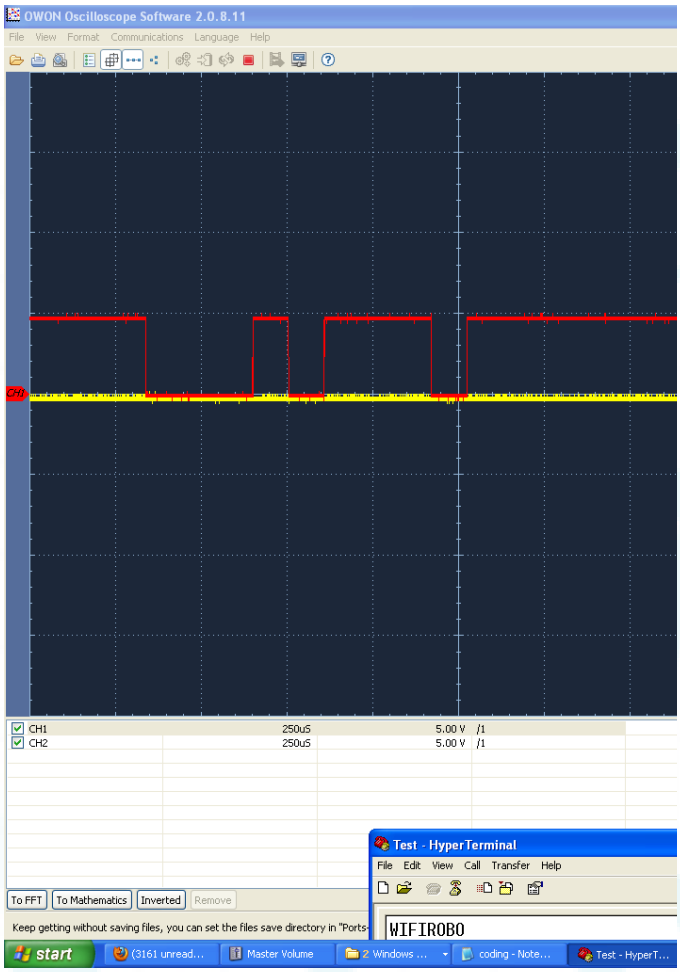

Figure 5: Received character T converted to TTL

7. Conclusion

This paper is based on the meaning of smart phones and all the details of smart home elements projects and challenges. main objectives is to give a survey on smart phone research. Many new technologies are exploring more and more and day by day. Smart is the good and beneficial who is very much easy with their professional life and also for those who are about security and comfort but they want to save their electrical energy that is wasted by many people in regular span of time. With the introduction of smart home people are living and will obviously live more comfortable life. All the time home can be save from automation so that we will have much more time work on the other things or pursuits.

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