

## *Abstract*

*Nowadays crimes committed using SMS messages are one of the choices of the criminals to transact because it is considered safer. Therefore, based on ITE law article 5 paragraph 1 which has governed that electronic information and/or electronic documents and/or printouts are a valid legal proof tool, SMS messages can be used as one of the powerful evidence. As a solution, mobile forensics is needed to find strong evidence. Previously, the Auto Detect Feature tool was found using the Knuth-Morris-Pratt(KMP) Algorithm to find deleted SMS and see all the contents in the SMS. In this study, the development of the Auto Detect Feature was conducted and compared the accuracy and efficiency results of time found by the Auto Detect Feature with Oxygen Forensic SQLite Viewer tools. From the results of the research conducted both tools are able to display SMS messages but there are still some lacks and advantages of each such as, Auto Detect feature produces an average data accuracy of 100%, while Oxygen Forensic excels at time efficiency during the trial process with the average time generated is 1.16 seconds.*

*Keywords: SMS, Mobile Forensic, Auto Detect Feature, Algoritma KMP, Oxygen Forensic, Magnet Axiom*