ANALYSIS PERFORMANCE OF GAS HROMATOGRAPHY TYPE SHIMADZU GC-FID 2010 ON THE EFFECT OF TEMPERATURE COLUMN IN THE VALUE OF RETENTION TIME AND AREA OF DETECTION PEAK OF BHYPENILE IN N-HEXANE AT PT. DITEK JAYA (SHIMADZU Analytical and Scientific Corp.)

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Abstract

SHIMADZU GC-FID 2010 is Gas Chromatography with the type of fully otomatic device equipped with AFC (Advanced Flow Controller) and APC (Advanced Pressure Control) is a mainstay of PT. DITEK JAYA competition in terms of analytical instruments. Analysis performance of this Gas Chromatography type has carried out in accordance with the procedure in the analysis parameter method that has been determined in order to obtain a solution on the effect of column temperature changes on retention time as representative value in terms of qualitative analysis and the area of peak detection as representative in terms of quantitative analysis. Where the requirements specified for the value of % RSD value of retention time and peak area of detection should be below 0.5%. From the data obtained, a result that meets the specified requirements may be used to determine the performance characteristic of Gas Chromatography as a solution in terms of the effect of changing column temperature.

Key words : Temperature Column, Retention Time, Area Of Detection Peak