

Study of the test method for Illegal gasoline using NIR

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Illegal gasoline consists of solvent, alcohol and aromatic compounds(BTX) and treated by incompetent people. It can also cause the corrosions in fuel system and the increment of carcinogenic substances in exhaust gas. To discriminate legal or illegal promptly, we focused on developing test method using NIR spectrometer which is one of the typical instruments to check the sample's quality & quantity. The PLSR(Partial Least Squares Regression) method is used to analyze NIR spectrums and test results such as octane number, vapor pressure and composition ratio ,. Etc.