

Literature

LITERATURE: Free **DET REPORT** newsletters are distributed periodically. These describe unique detection capabilities provided by the various DET products, as well as general advice on optimum use of NPD detectors.

DET Rep. 62 (May 2010): Catalytic Combustion Ionization Method for Selective Detection of CH₂ Functional Groups in Petroleum, Biofuel, and FAME Samples including Differentiation between Saturated and Unsaturated Carbon Bonds. 2.) Selective TID-1 Detection in an Inert Nitrogen Environment allows Gasoline to be used as an Extracting Solvent. 3.) Critique of Agilent's Instructions for the 6890/7890 NPD.

DET Rep. 61 (October 2009): 1.) Using the Combination of DET FID/NPD/TID Hardware and Thermo Trace NPD Electronics to Achieve Unrivaled Capability for Multiple Modes of Thermionic Ionization and Flame Ionization Detection. 2.) Thermionic Detection of FAMES (Fatty Acid Methyl Esters) Including Differentiation Between Saturated and Unsaturated Compounds. 3.) Comparison of Flame and Thermionic Detection of Biodiesel Samples Using the Optimum Combination of DET Hardware and Thermo NPD Electronics. 4.) Demonstration of Detection of Diazinon, Malathion, and Chlorpyrifos Using DET Ion Sources and Retrofit Hardware on Agilent, Thermo, Varian, HP5890, and SRI Instruments GC Models.

DET Rep. 60 (June 2009); 1.) New DET NPD/TID Detector Hardware fits onto the Thermo Trace GC and Combines an Optimum Detector Geometry with Thermo's Versatile NPD/TID Electronics. 2.) Improved Ceramics for DET NPD/TID Ion Sources and Continuing Discussion of the Difference Between Ceramic and Glass for the Ion Source Material.

DET Rep. 59 (May 2009); 1.) Oxygenate Selective Thermionic Detection of Ethanol and Higher Boiling Components in Gasoline. 2.) Comparison of FID and TID Detection of an Auto Diesel Sample. 3.) Comparison of Thermionic and Flame Ionization Detection of a FAMES (Fatty Acid Methyl Ester) Sample. 4.) Comparison of FID and TID Detection of Biodiesel Samples. 5.) Consider Inexpensive DET Retrofit Detection Equipment for Improved and Expanded Use of Existing GC Instruments.

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