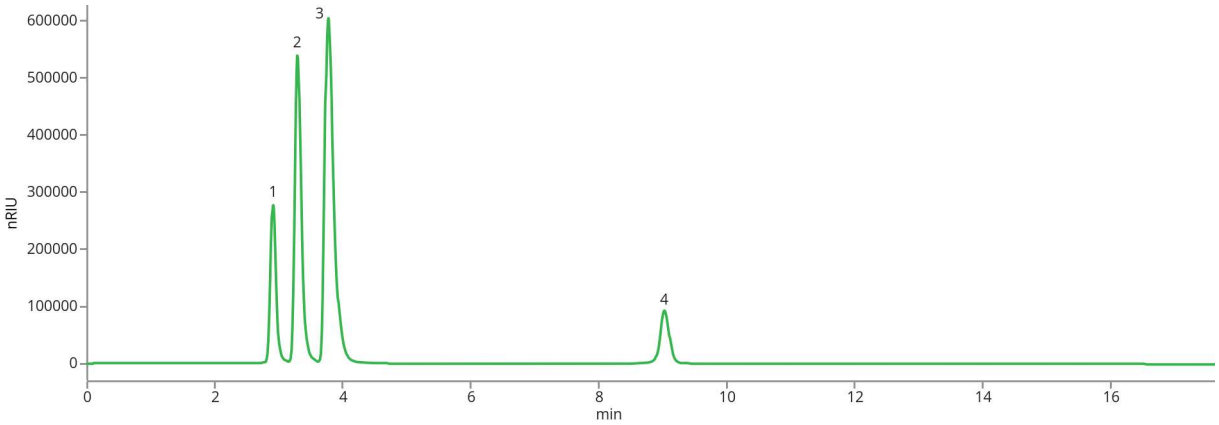
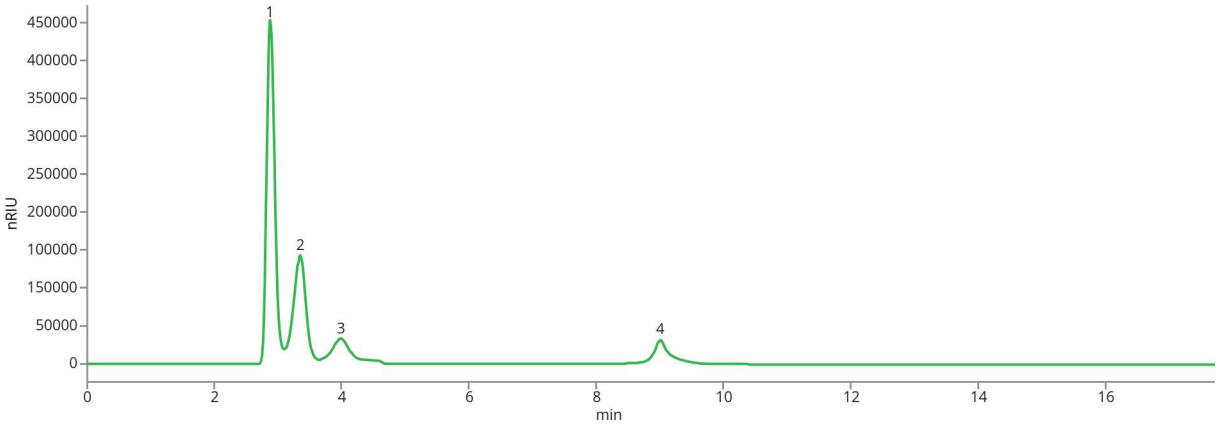
Determination of aromatic hydrocarbons in diesel fuel

The aromatic hydrocarbons content of diesel fuel is a factor that can affect exhaust emissions and fuel combustion characteristics, as measured by cetane number. This application shows fast and robust method for the determination of monoaromatic, di-aromatic, and polyaromatic hydrocarbon contents in diesel fuels and petroleum distillates boiling in the range from 150 to 400 °C.



Calibration standard solution on ARION® column



Test solution on ARION® column

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Column	ARION® NH_2, 5 µm
Dimensions	150 mm × 4.6 mm
Part number	ARI-5736-LK46
Mobile phase	Heptane Isocratic elution
Flow rate	0.8 mL/min
Temperature	30 °C
Injection volume	10 µL
Detection	RID
Analytes	**1. Non-aromatic hydrocarbons (NAHs)** **2. Mono-aromatic hydrocarbons (MAHs)** **3. Di-aromatic hydrocarbons (DAHs)** **4. Polycyclic aromatic hydrocarbons (PAHs)**

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This application was developed
in co-operation with ORLEN UniCRE a.s.

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