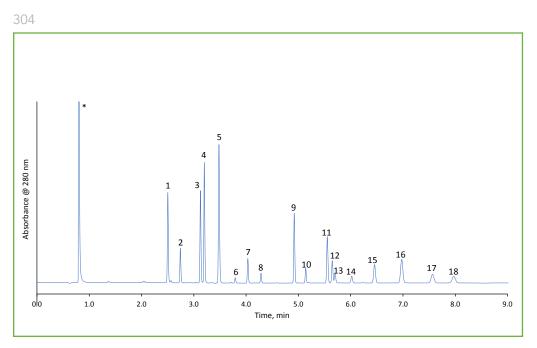
## HALO





## Separation of EPA 610 + Benzo[e]pyrene + Perylene using HALO<sup>®</sup> PAH



## **TEST CONDITIONS:**

AMT AN Rev 0

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**Column:** HALO 90 Å PAH, 2.7 µm, 4.6 x 150 mm **Part Number:** 92844-712 Mobile Phase A: Water B: Acetonitrile Gradient: Time %B 50 0.0 4.5 100 9.0 100 9.5 50 14.0 50 Flow Rate: 1.8 mL/min Initial Back Pressure: 416 bar Temperature: 30 °C Detection: 280 nm Injection Volume: 5 µL Sample Solvent: 80/20 Methanol/Acetone Data Rate: 40 Hz Response Time: 0.05 sec. Flow Cell: 1 µL LC System: Shimadzu Nexera X2

Polycyclic Aromatic Hydrocarbons (PAHs) are a group of more than 100 chemicals generated from the combustion of coal, oil, gasoline, tobacco, and wood. They can also be found in grilled food. These compounds are ubiquitous and exposure to them can cause irritation, mutation, and cancer. Due to the negative health effects, government agencies have established methods for detection and reporting. This rapid separation of the 16 compounds specified in EPA 610 along with benzo[e] pyrene and perylene demonstrates excellent speed and resolution with the HALO<sup>®</sup> PAH column.

**PEAK IDENTITIES:** 

- 1. Naphthalene
- 2. Acenaphthylene
- 3. Acenaphthene
- 4. Fluorene
- 5. Phenanthrene
- 6. Anthracene
- 7. Fluoranthene
- 8. Pyrene
- 9. Benzo[a]anthracene
- 10. Chrysene
- 11. Benzo[e]pyrene
- 12. Benzo[b]fluoranthene
- 13. Perylene
- 14. Benzo[k]fluoranthene
- 15. Benzo[a]pyrene
- 16. Dibenzo[a,h]anthracene
- 17. Benzo[g,h,i]perylene
- 18. Indeno[1,2,3-c,d]pyrene
- \* acetone from sample solvent

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