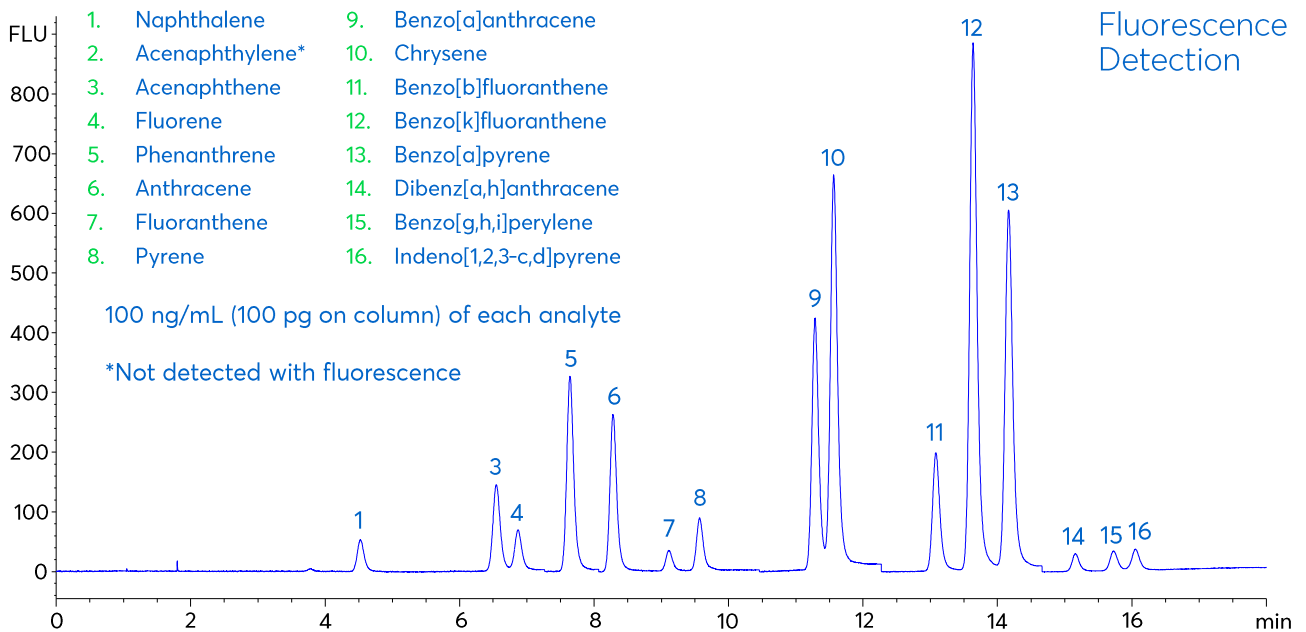
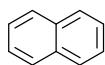
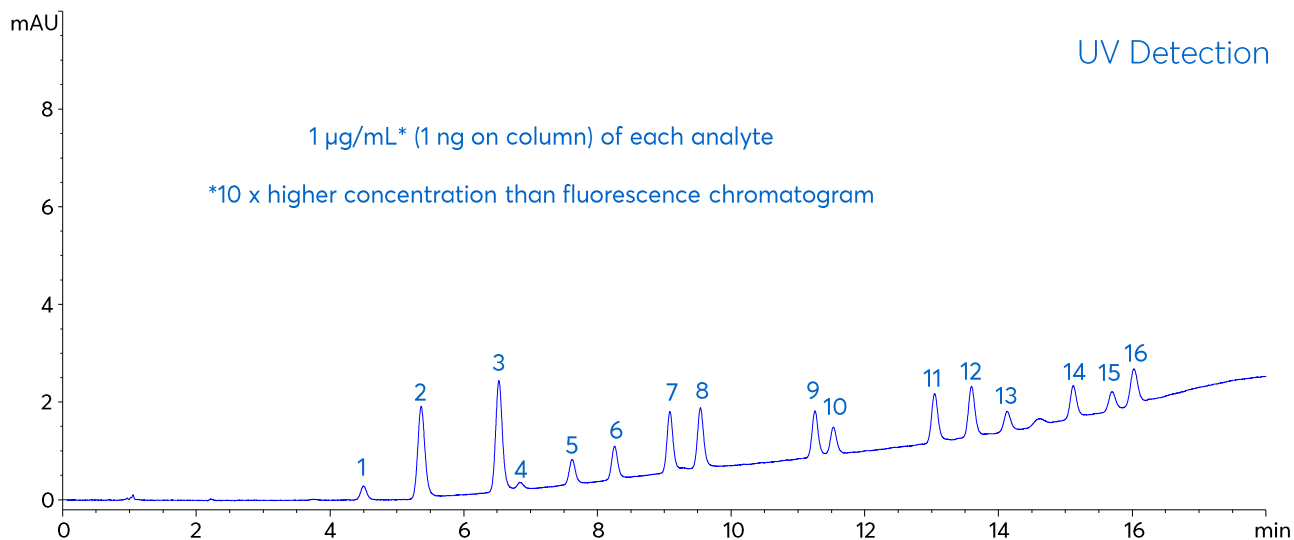


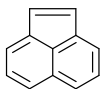
Application note #C-13228

PAH Analysis using Fluorescence and UV Detection





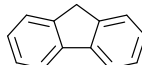
1. Naphthalene



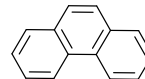
2. Acenaphthylene



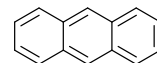
3. Acenaphthene



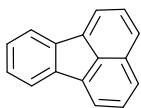
4. Fluorene



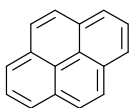
5. Phenanthrene



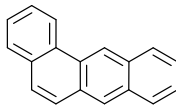
6. Anthracene



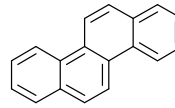
7. Fluoranthene



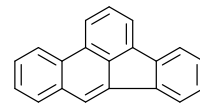
8. Pyrene



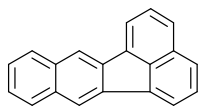
9. Benzo[a]anthracene



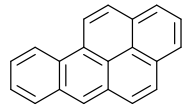
10. Chrysene



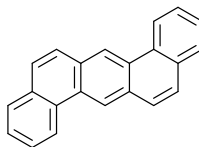
11. Benzo[b]fluoranthene



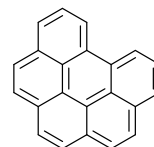
12. Benzo[k]fluoranthene



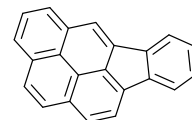
13. Benzo[a]pyrene



14. Dibenzo[a,h]anthracene



15. Benzo[g,h,i]perylene



16. Indeno[1,2,3-c,d]pyrene

Method Details

CONDITIONS

Column: Vydac 201TP 5 μ m C18
 Particle Size: 5 μ m
 Dimensions: 150 x 4.6 mm
 Mobile Phases: A: H₂O
 B: MeCN

Gradient:

Time (mins)	%B
0	50
3	50
15	100
20	100

Flow Rate: 1 mL/min
 Temperature: 30 °C
 Injection Volume: 1 μ L
 Detection: UV, 230 nm

Fluorescence:

Time (mins)	Ex (nm)	Em (nm)
0	275	350
7.2	246	370
8.0	260	420
10.4	265	385
12.2	290	430
14.6	295	470

ORDERING TABLE

Product	Details	Size	Part Number
Vydac 201TP 5 μ m C18	HPLC Column	150 x 4.6 mm	201TP5415
Acetonitrile	VWR CHROMANORM® super gradient grade	2.5 L	83639.320
Water	VWR CHROMANORM® super gradient grade	2.5 L	83650.320
PAH Mix 1, EPA 610	16 component mix, 0.1 mg/mL in methanol	1 mL	124812X