

Unleash the Power of Fast GC PAH Analysis

Zebron™
GC Columns

ZB-PAH-EU

- Up to 70% Faster PAH Analysis
- Elevated Temperature Stability (340/360 °C)

ZB-PAH-SeleCT

- Enhanced Resolution for Chrysene and Triphenylene (PAH Interferences)
- Increased Benzo[b,k]fluoranthene Separation



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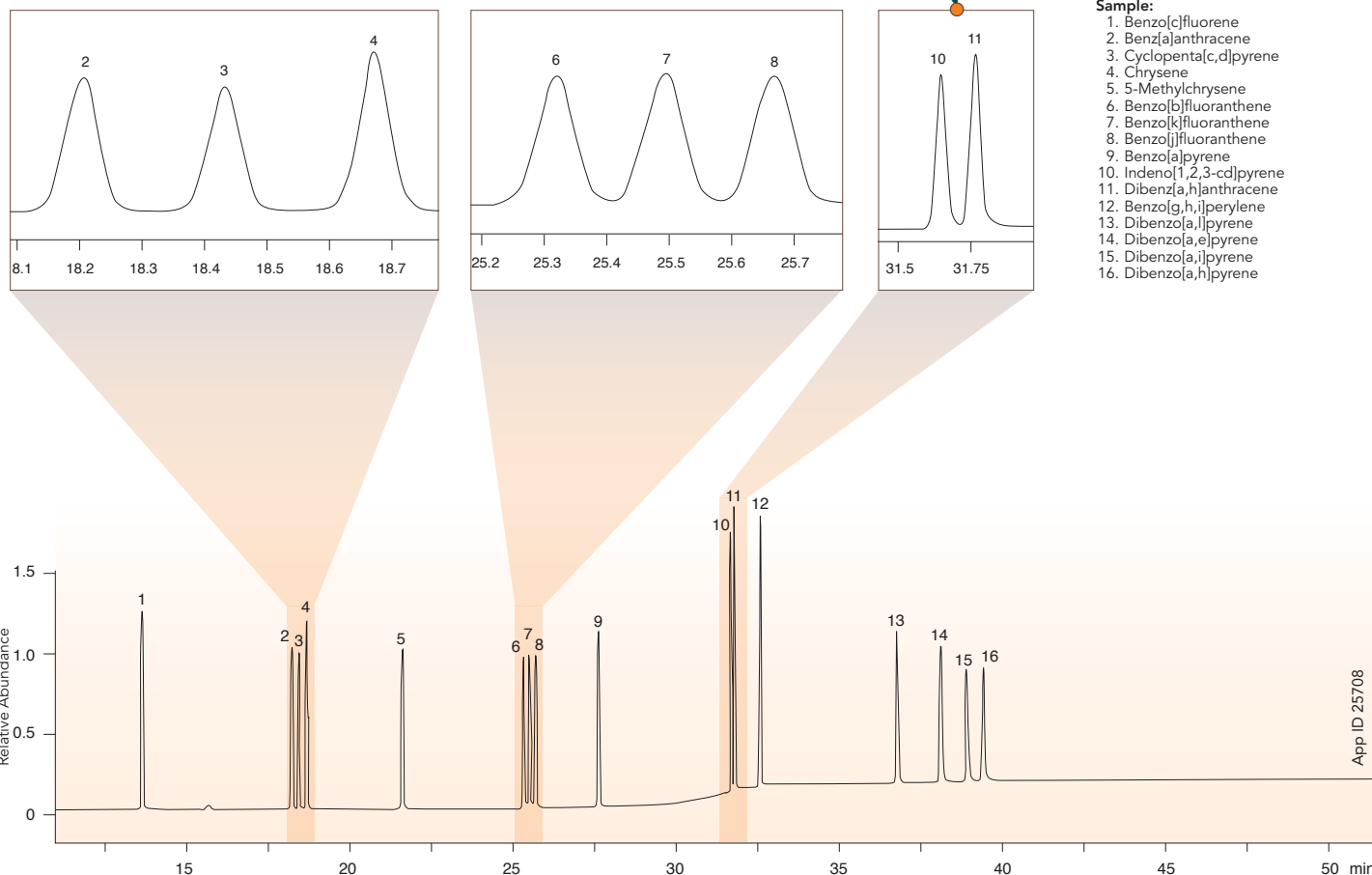
Complete Resolution of EU 15+1 and EPA 610 PAHs



Zebtron ZB-EU-PAH GC column demonstrates excellent resolution and accurate quantitation of European regulated EU 15+1 and EPA 610 PAHs.

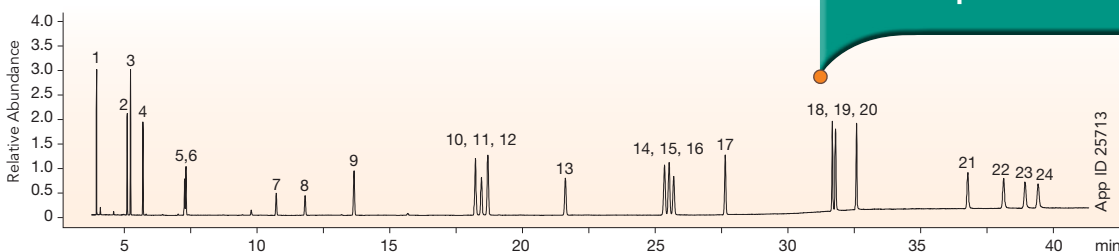
Analysis of EU 15+1 PAHs

Excellent Resolution of EU PAH Critical Pairs



Analysis of EU 15+1 and EPA 610 PAHs

Great Separation of All Key PAH Isomers



GC-MS conditions for both applications:

- Column:** Zebtron ZB-PAH-EU
- Dimensions:** 30 meter x 0.25 mm x 0.20 μm
- Part No.:** [7HG-G043-10](#)
- Injection:** Split 5:1 @ 330 °C, 1 μL
- Recommended Liner:** Zebtron PLUS Single Taper Z- Liner™
- Liner Part No.:** [AG2-4B13-05](#) (for Shimadzu® 2010 GC)
- Carrier Gas:** Helium @ 24 psi (constant pressure)
- Oven Program:** 45 °C for 0.8 min to 200 °C @ 45 °C/min to 226 °C @ 3 °C/min for 0 min to 320 °C @ 10 °C/min for 20 min
- Detector:** MSD, 50-500 m/z
- Transfer line Temperature:** 300 °C
- Source Temperature:** 300 °C

Sample:

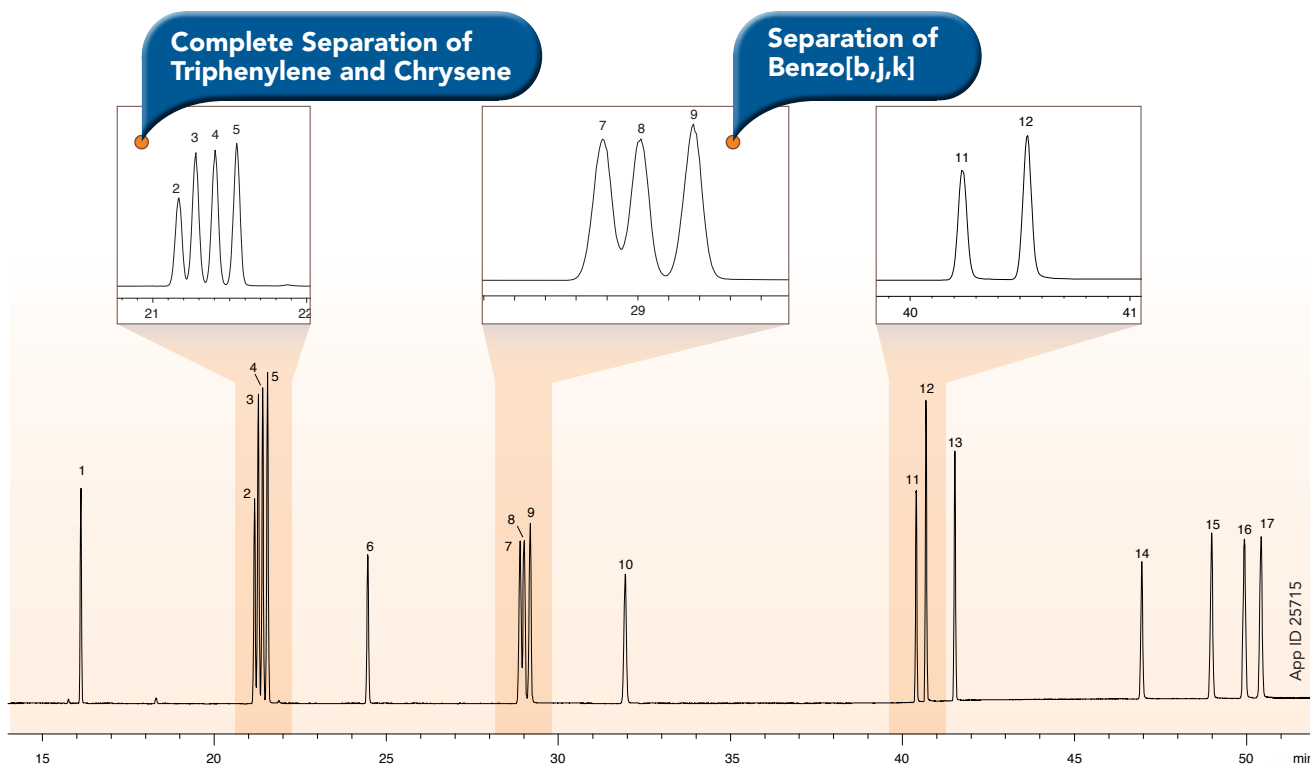
1. Naphthalene
2. Acenaphthylene
3. Acenaphthene
4. Fluorene
5. Phenanthrene
6. Anthracene
7. Fluoranthene
8. Pyrene
9. Benzo[c]fluorene
10. Benz[a]anthracene
11. Cyclopenta[c,d]pyrene
12. Chrysene
13. 5-Methylchrysene
14. Benzo[b]fluoranthene
15. Benzo[k]fluoranthene
16. Benzo[j]fluoranthene
17. Benzo[a]pyrene
18. Indeno[1,2,3-cd]pyrene
19. Dibenzo[a,h]anthracene
20. Benzo[g,h,i]perylene
21. Dibenzo[a,i]pyrene
22. Dibenzo[a,e]pyrene
23. Dibenzo[a,j]pyrene
24. Dibenzo[a,h]pyrene

Excellent Resolution of Chrysene and Triphenylene

We designed the Zebron ZB-PAH-SeleCT GC column to achieve complete resolution of Chrysene from Triphenylene along with other EU 15+1 PAH compounds. Its unique selectivity helps eliminate false positives while resolving PAH isomers, providing easy, fast, and accurate quantification of PAHs in environmental and food samples.



EU 15+1 PAH Analysis Using Zebron ZB-PAH-SeleCT GC column



Column: Zebron ZB-PAH-SeleCT
Dimensions: 40 meter x 0.18 mm x 0.14 μm
Part No.: [7PD-G044-47](#)
Injection: Split 30:1 @ 320°C, 1 μL
Liner Part No.: [AG2-4B13-05](#) (for Shimadzu® 2010 GC)
Recommended Liner: Zebron PLUS Single Taper Z-Liner™
Carrier Gas: Helium @ 78 psi (constant pressure)
Oven Program: 45°C for 0.8 min to 200°C @ 45°C/min to 265°C @ 3°C/min for 5 min to 270°C @ 1°C/min to 320°C @ 10°C/min for 15 min
Detector: MSD (Shimadzu® GC-MS-QP2010 Ultra)
Mode: SIM
SIM Ions: 216, 226, 228, 242, 252, 276, 278, 302 m/z
Transfer line Temperature: 300°C
Source Temperature: 300°C

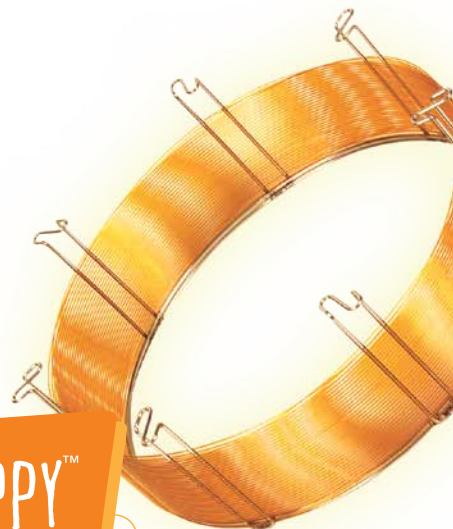
- Sample:**
1. Benzo[c]fluorene
 2. Cyclopenta[c,d]pyrene
 3. Benz[a]anthracene
 4. Triphenylene
 5. Chrysene
 6. 5-Methylchrysene
 7. Benzo[b]fluoranthene
 8. Benzo[j]fluoranthene
 9. Benzo[k]fluoranthene
 10. Benzo[a]pyrene
 11. Indeno[1,2,3-c,d]pyrene
 12. Dibenzo[a,h]anthracene
 13. Benzo[g,h,i]perylene
 14. Dibenzo[a,i]pyrene
 15. Dibenzo[a,e]pyrene
 16. Dibenzo[a,l]pyrene
 17. Dibenzo[a,h]pyrene

Zebron ZB-PAH-EU GC Column

Length (meter)	ID (mm)	df (μm)	Temp. Limits (°C)	Part No.
10	0.10	0.08	40 to 340/360	7CB-G043-59
20	0.18	0.14	40 to 340/360	7FD-G043-47
30	0.25	0.20	40 to 340/360	7HG-G043-10
60	0.25	0.20	40 to 340/360	7KG-G043-10

Zebron ZB-PAH-SeleCT GC Column

Length (meter)	ID (mm)	df (μm)	Temp. Limits (°C)	Part No.
20	0.18	0.14	40 to 320/340	7FD-G044-47
30	0.25	0.20	40 to 320/340	7HG-G044-10
40	0.18	0.14	40 to 320/340	7PD-G044-47



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PAH

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Unleash the Power of Fast GC PAH Analysis with Zebron ZB-PAH-EU & ZB-PAH-SeleCT!



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