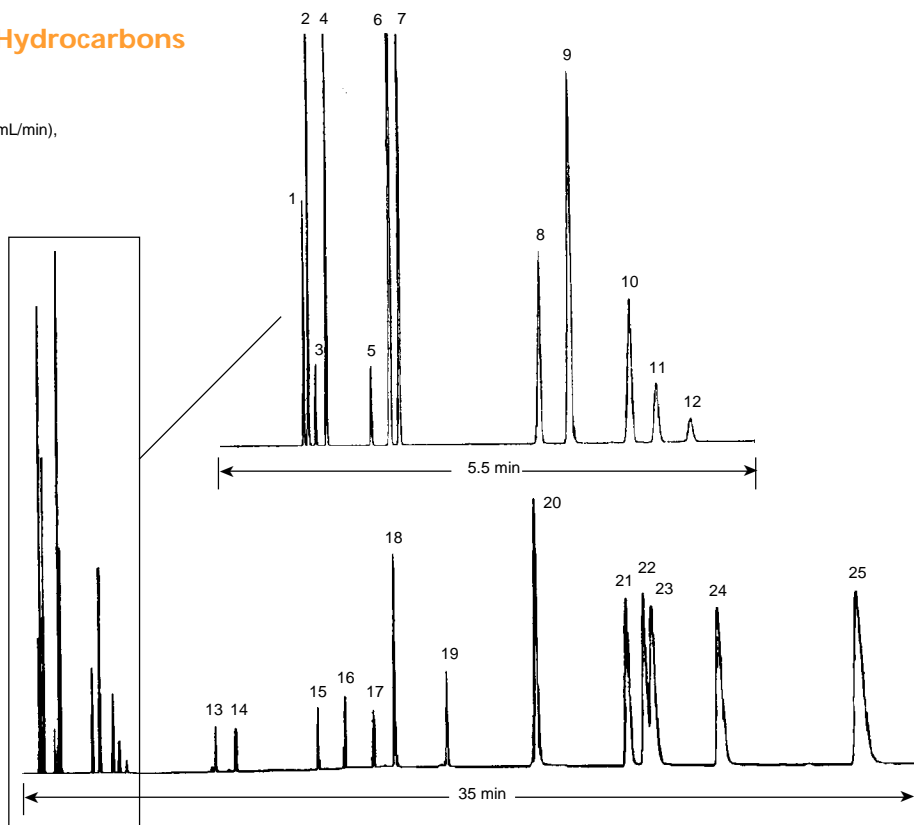


## Extended Analysis of Hydrocarbons

**Column:** GS-Alumina  
30 m x 0.53 mm I.D.  
**J&W P/N:** 115-3532  
**Carrier:** Helium at 51 cm/sec (6.8 mL/min),  
measured at 100°C  
**Oven:** 100°C for 5 min  
100-200°C at 5°/min  
200°C for 15.5 min  
**Injector:** Split 1:10, 4 µL, 250°C  
**Detector:** FID, 250°C  
Nitrogen makeup gas at  
30 mL/min

- |                           |                      |
|---------------------------|----------------------|
| 1. Methane                | 15. Heptane          |
| 2. Ethane                 | 16. Benzene          |
| 3. Ethylene               | 17. Isooctane        |
| 4. Propane                | 18. Octane           |
| 5. Propylene              | 19. Toluene          |
| 6. Isobutane              | 20. Nonane           |
| 7. <i>n</i> -Butane       | 21. Ethylbenzene     |
| 8. <i>trans</i> -2-Butene | 22. <i>p</i> -Xylene |
| 9. Butene-1               | 23. <i>m</i> -Xylene |
| 10. <i>cis</i> -2-Butene  | 24. <i>o</i> -Xylene |
| 11. Isopentane            | 25. Decane           |
| 12. <i>n</i> -Pentane     |                      |
| 13. Cyclohexane           |                      |
| 14. Hexane                |                      |

*Extended HC analysis on GS-Alumina provides analysis of typical mixes in refinery and natural gas from C<sub>1</sub> to C<sub>10</sub>.*



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