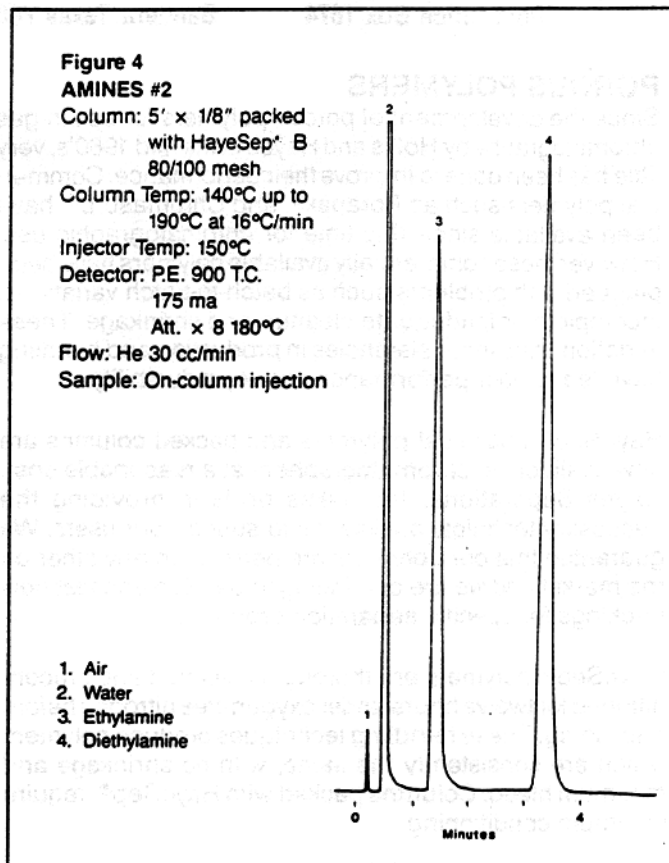
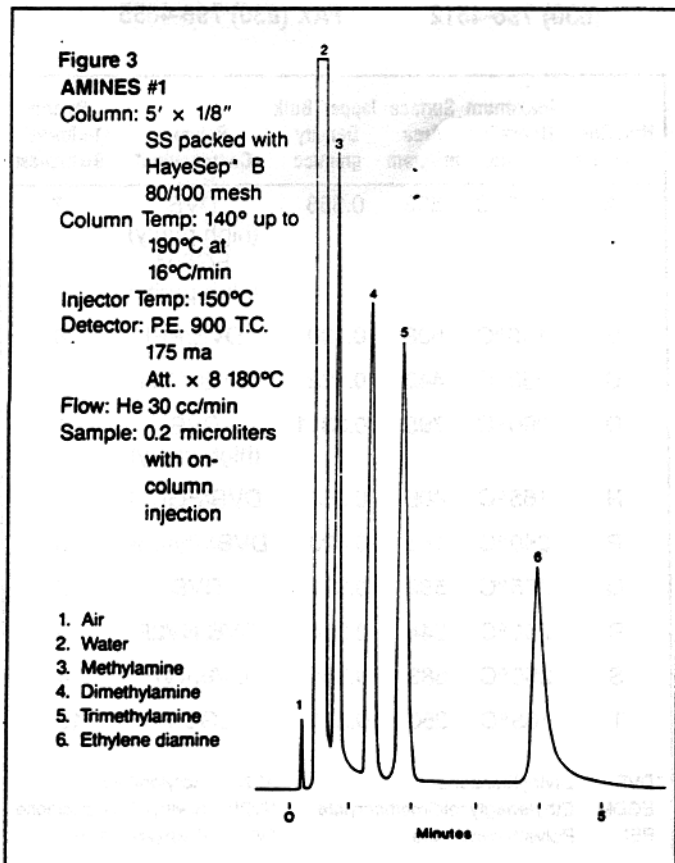
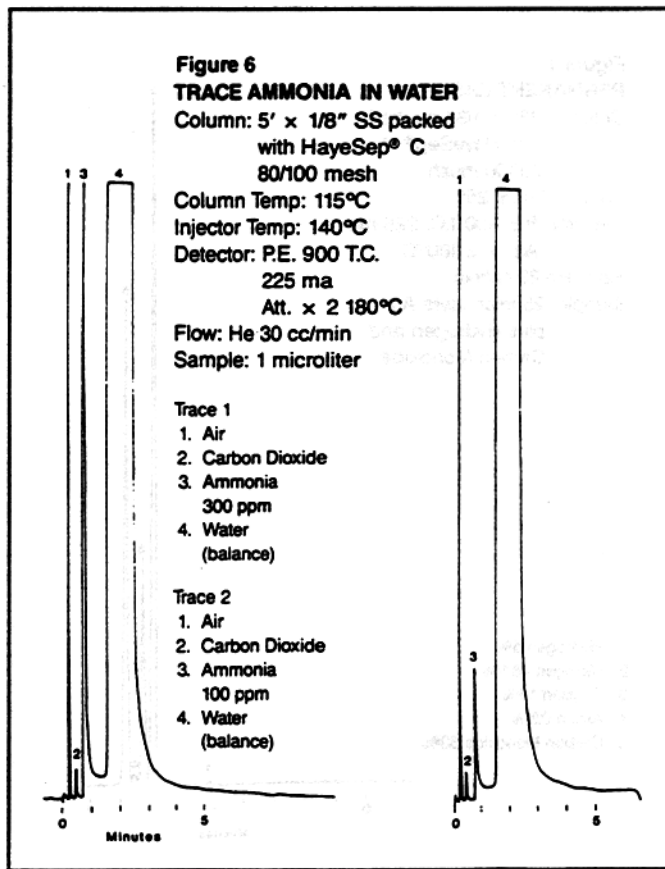
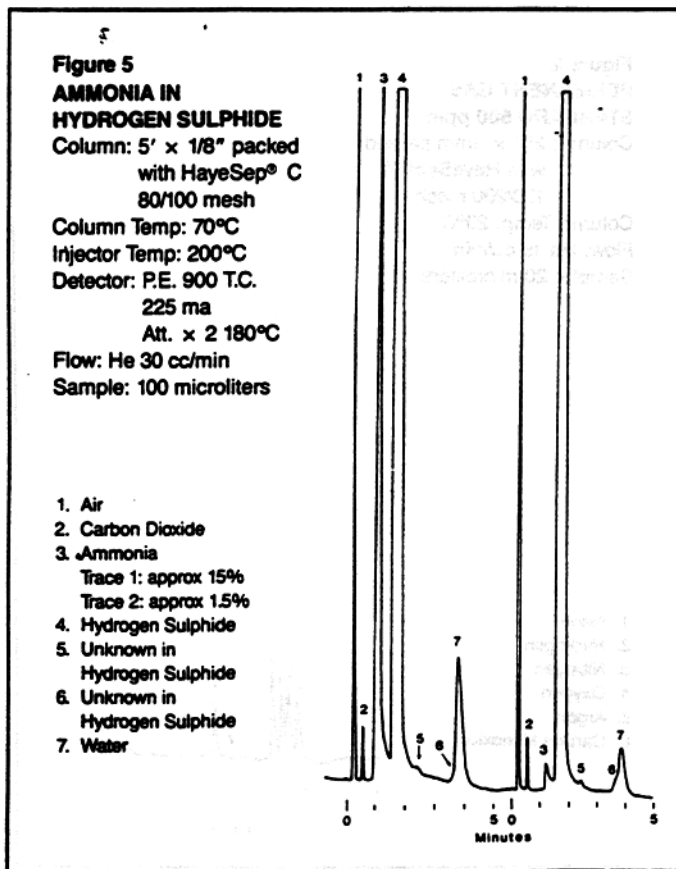


HayeSep[®] B Designed to separate the C1 and C2 amines as well as trace levels of ammonia and water, this polymer eliminates the need for caustic washing of material prior to packing.



HayeSep[®] C This polymer is designed for polar hydrocarbons such as hydrogen cyanide, ammonia, hydrogen sulphide and water. HayeSep[®] C has similar separation characteristics to Chromosorb[®] 104.



HayeSep® N, P, Q, R, S, and T These polymers are interchangeable with the Porapak® series for separations of low molecular weight materials containing halogens, sulphurs, water, alcohols, glycols, free fatty acids, esters, ketones and aldehydes.

Figure 7

AMMONIA

Column: 8' x 1/8" SS packed with HayeSep® P
60/80 mesh
Column Temp: 80°C
Injector Temp: 150°C
Manifold Temp: 180°C
Detector: T.C. 175 ma 200°C
Flow: He 30 cc/min
Sample: 0.1 microliters of NH₄OH with on-column injection

1. Air
2. Ammonia 35%
3. Water 65%

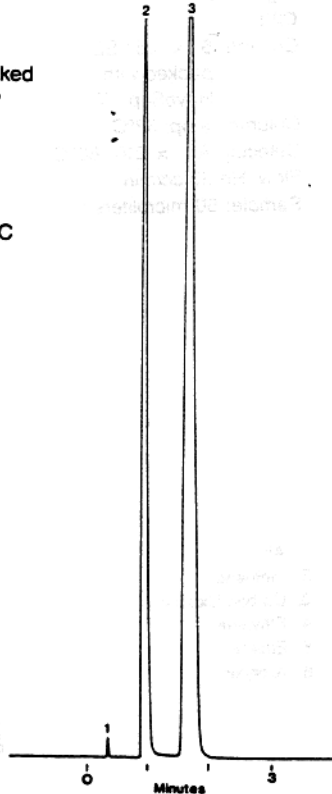


Figure 8

SOLVENTS

Column: 8' x 1/8" SS packed with HayeSep® P
60/80 mesh
Column Temp: 80°C up to 180°C at 16°C/min
Injector Temp: 150°C
Manifold Temp: 180°C
Detector: 175 ma 200°C
Flow: He 30 cc/min
Sample: 0.2 microliters with on-column injection

1. Air
2. Water
3. Methanol
4. Ethanol
5. Acetone
6. Chloroform

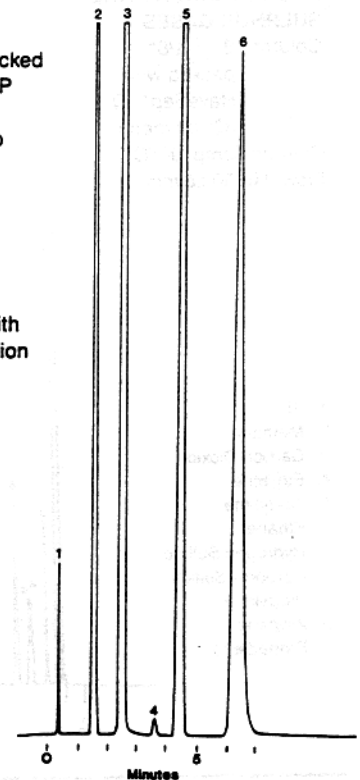


Figure 9

TRACE WATER ANALYSIS

Column: 9' x 1/8" Ni packed with HayeSep® R
80/100 mesh
Column Temp: 118°C
Flow: He 30 cc/min
Detector: Varian T.C. with Bendix On-Line Process Analyzer
Sample: 10 microliters Ethyl Chloride

1. Air
2. Water 12 ppm
3. Hydrogen Chloride
4. Ethyl Chloride

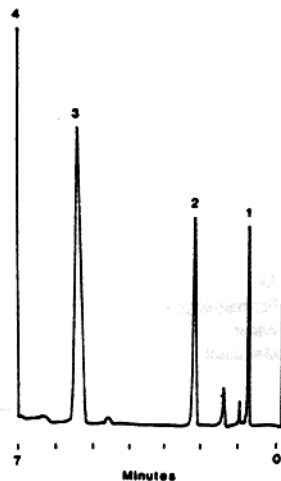


Figure 10

MAPP GAS

Column: 10' x 1/8" SS packed with HayeSep® R
Column Temp: 80°C
Flow: He 30 cc/min
Sample: 15 microliters

1. Air
2. Methane
3. Carbon Dioxide
4. Ethane
5. Propylene
6. Propane
7. Propadiene
8. Methyl Acetylene

