

# GsBP-624 Column

Zack Ji, PhD

General Separation Technologies, Inc.

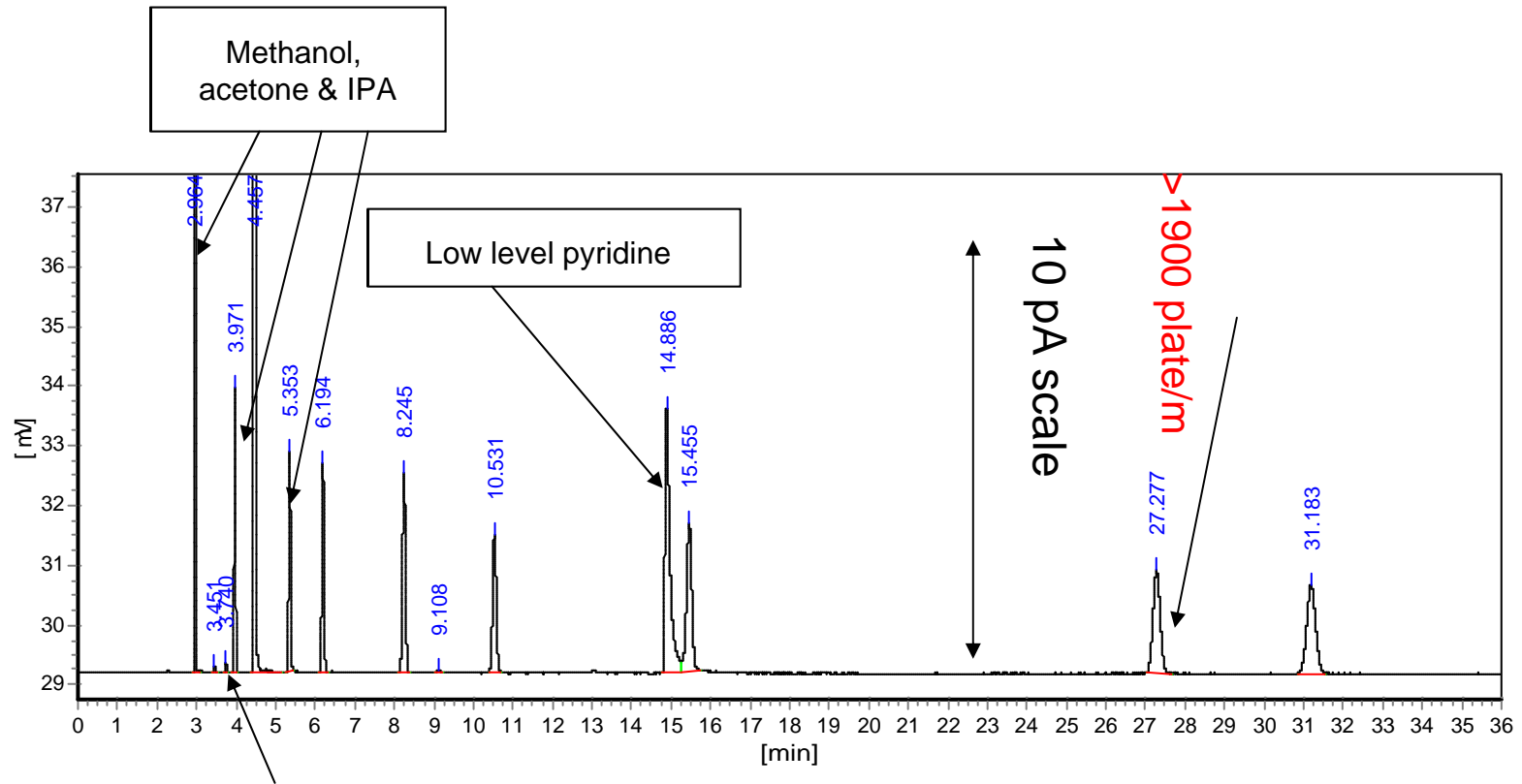
[info@gs-tek.com](mailto:info@gs-tek.com)

[www.gs-tek.com](http://www.gs-tek.com)

# Features

- Complete offer of GsBP-624, cyano-phase columns for residue solvent and VOCs, equivalent to USP Phase G43
- Similar phase, -624, -VRX, -502.2, -VOCCol
- Very low bleed, high plate number, and great inertness
- Bonded and crosslinked, rinseable
- Carefully tuned column selectivity for most volatile solvent separations
- Temperature limit, 20 to 260C for standard one, 20 to 260/280C for MS applications

# Inertness test, <1ng sample loading



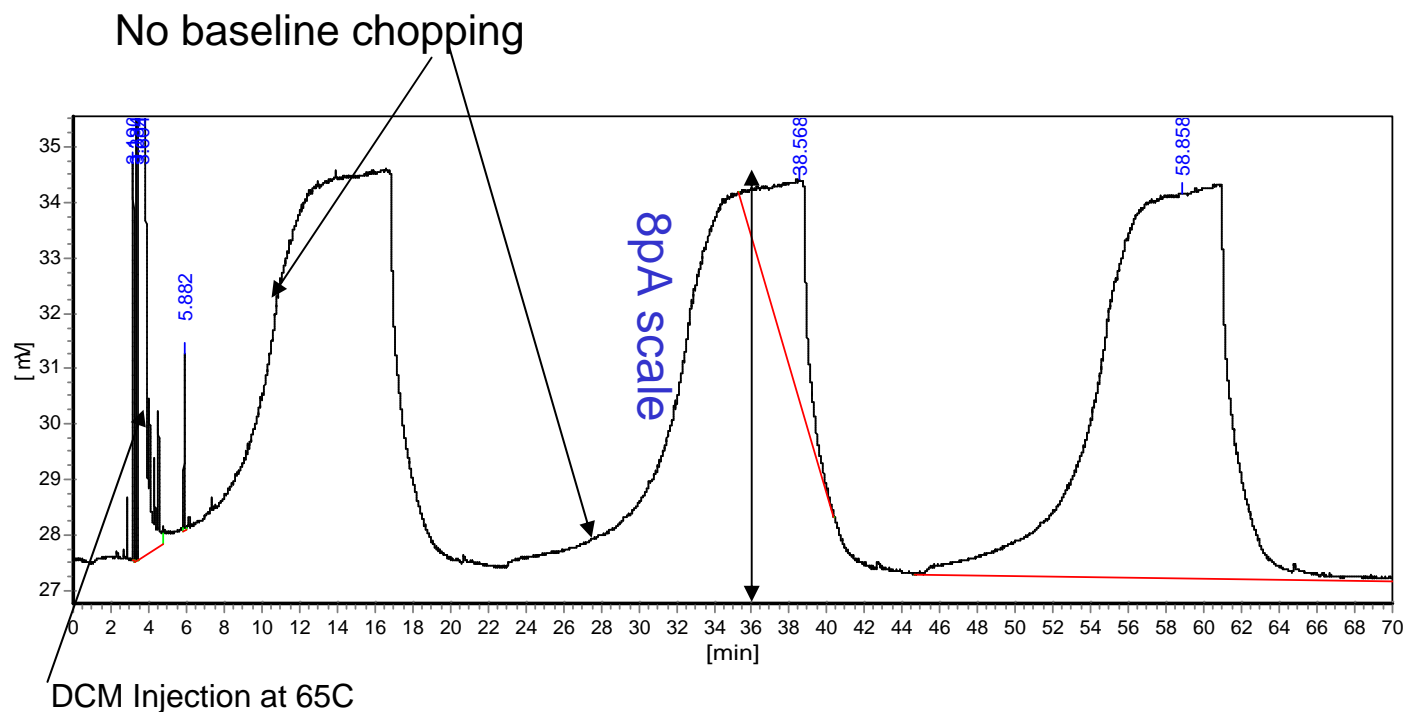
<1pA peak height of  
Pentane and ethanol

Column: GsBP-624 0.32mm x 60m x 1.8um  
(6232-6018)

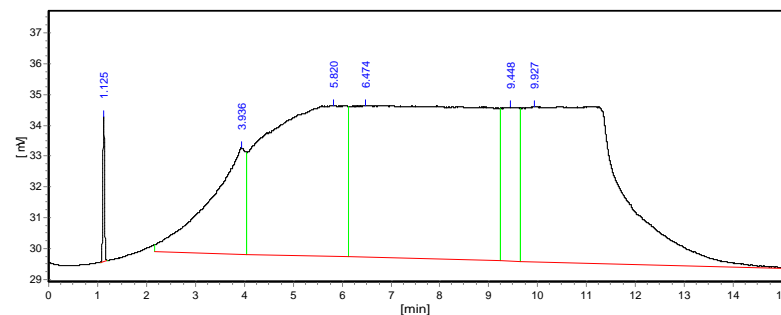
Oven: 65C

Sample: VOC mix in Dichloromethane

# Stable phase: smooth baseline during temperature programming

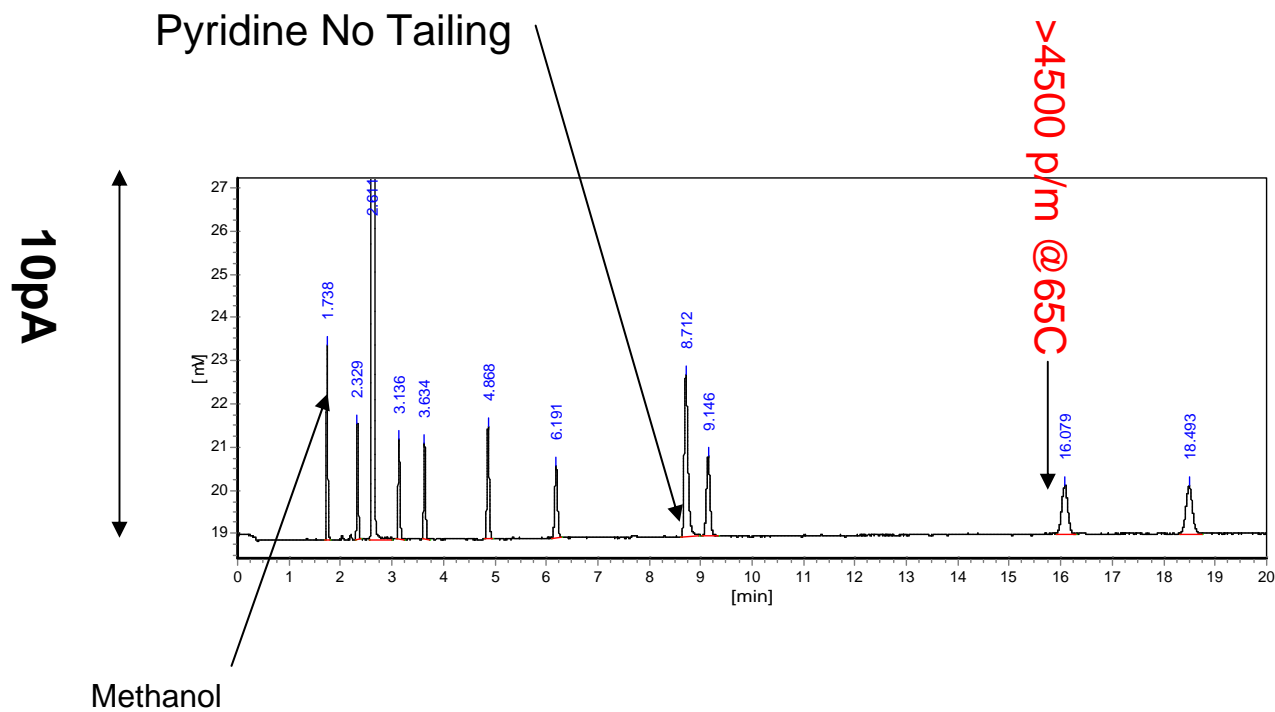


Column: GsBP-624 0.32mm x 60m x  
1.8um (6232-6018)  
Oven: 65C 1min 20C/min to 260C 5min  
Sample: Dichloromethane 2ul



# Column Inertness:

by very small sample introduction



Column: GsBP-624 0.18mm x 25m x  
1.0um ( cat no 6218-2510)

Oven: 65C

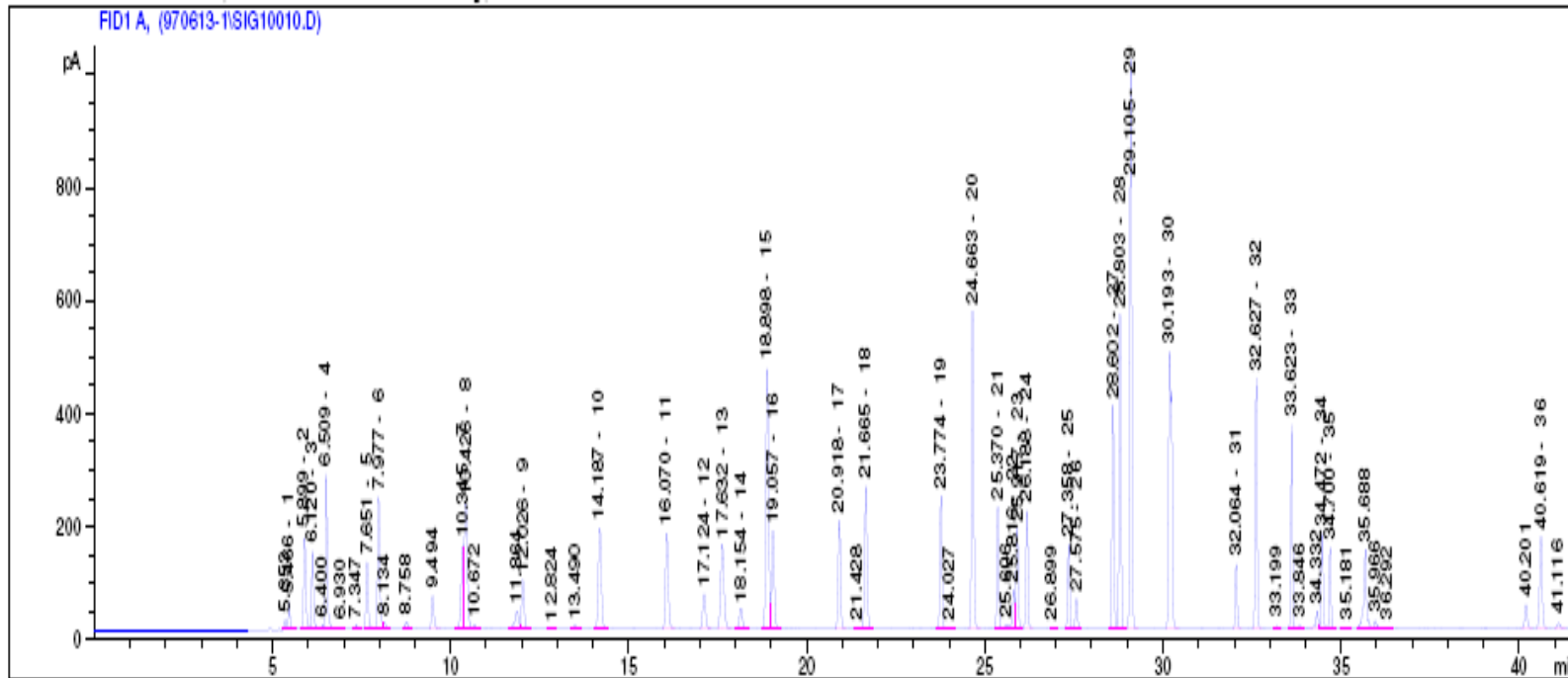
# Complete dimensions

Cat no	dimension	Cat No	dimension
6218-2010	0.18mmx 20m x 1um	6232-6018	0.32mm x 60m x 1.8um
6220-3011	0.20mm x 30m x 1.14um	6263-3030	0.53mm x 30m x 3.0um
6225-3014	0.25mm x 30m x 1.4um	6253-6030	0.53mm x 60m x 3.0um
6225-6014	0.25mm x 60m x 1.4um	6253-7530	0.53mm x 75um x 3.0um
6232-3018	0.32mm x 30m x 1.8um	6253-A530	0.53mm x 105m x 3.0um

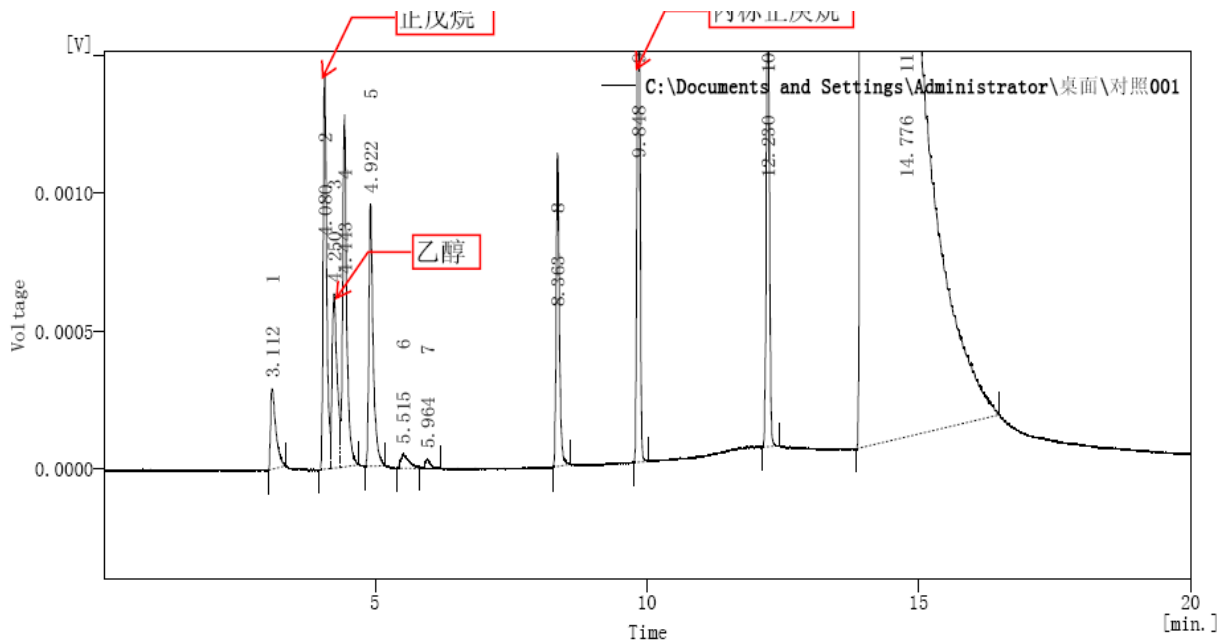
# Special Columns

Cat no	Dimension
6325-3014	GsBP-502.2*, 0.25mm x 30m x 1.4um
6425-3014	GsBP-624MS, 0.25mm x 30m x 1.4um
6332-6018	GsBP-502.2*, 0.32mm x 60m x 1.8um
6332-A518	GsBP-502.2*, 0.32mm x 105m x 1.8um
6353-A530	GsBP-502.2*, 0.53mm x 105m x 3.0um
6453-3010	GsBP-624, 0.53mm x 30m x 1.0um**
6432-3010	GsBP-624, 0.32mm x 30m x 1.0um**
note	<ul style="list-style-type: none"><li>•* 502.2, slightly polar than 624 phase</li><li>•** fast separation of residue solvent</li></ul>

# Application: VOCs in drinking water with GC-P/T



# Application: Residue solvents



Peak ID	Acetonitrile
Elution order	
Methanol	Dichloromethane
Pentane	Ethyl acetate
Ethanol	Heptane
Diethyl ether	Solvent matrix
Acetone	

# Known Applications

- VOC's and Semi-VOCs in a general samples, gaseous, liquids, and solids
- Petroleum, 1,3-butadiene, natural gas, gasoline
- EPA method, 501.3, 502.2, 503.1 504, 524.2, 601, 60 2, 8010, 8015, 8020, 8021, 8240, 8260,
- Residue solvents, class I, II, III, USP 467
- Pharmaceutical Quality control
- Water analysis, drinking water, waste water, underground water
- Halogenated hydrocarbons
- Nitrogen based solvents
- Alcohol, DMA, DMSO, ether, glycols, esters
- Package materials
- Tobacco and healthcare products
- Fit Instrumentation GC-HS, GC-MSD, GC-P/T, GCs

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