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And
Troubleshooting
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GC Column Installation
Part 1 - GC

Troubleshooting Series
GC

Troubleshooting—High
GC Column Bleed GC
column Installation GC

Troubleshooting—No
Peaks GC Column
Installation - Part 2 - GC

Troubleshooting Series
GC

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~~Troubleshooting—Split
Peaks~~

~~Agilent GC Column
Installation Video GC~~

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~~Conditioning GC Troubl
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~~Peaks GC Troubleshooti
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~~GC Column~~

~~Conditioning for Better
Results Performing a Leak~~

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Top GC interview

Questions \u0026

answers| GC Q\u0026A |

Pharmabeej FID Part 1

How to Analyze GC

Results for Lab

LC Column

Conditioning Making

Better GC Connections

~~GH404 23.5 Method~~

~~Development in Gas~~

~~Chromatography~~

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~~Selecting a GC Inlet Liner~~

GC-MS Agilent Leak

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Troubleshooting—Broad

Peaks Ghost Peaks - Part

2 - GC Troubleshooting

Series ~~Replacing Your~~

~~Liner, Septum and O-~~

~~Ring—GC~~

~~Troubleshooting Series~~

GC Troubleshooting—T

ailing Peaks Gas

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Management Best
Practices Pt 2 - Agilent
Instructional Videos

TROUBLESHOOTING
OF BASELINE
PROBLEM IN GC #001

Difference between
HPLC and GC | HPLC
VS GC | English Excel
~~Replacing the Gold Seal -~~
~~GC Troubleshooting~~
Series SPL Webinar -
Fundamentals of Gas
Chromatography Gc

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Troubleshooting Gc

Columns And

Practical Steps in GC

Troubleshooting

Techniques, Tips, and

Tricks Mark Sinnott

Application Engineer

GC Columns & Supplies.

Page 3 ... GC Column

Bleed Ions Page 11. 0

6000 7000 8000 9000

1.0e4 1.1e4 1.2e4 1.3e4 5

10 15 20 25 Time (min.)

24 pA / 260 ° C DB-624

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30M x .53mm I.D.,
3.0 μ m 12 pA / 320 ° C

Practical Steps in GC Troubleshooting

Remove the end section
of the column. Carrier
gas cylinder pressure too
low to allow control.

Replace the carrier gas
cylinder. Increase the
pressure. Drifting carrier
gas or combustion gas fl
ows. Check the gas

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Accumulation of impurities in the column.
Check impurity levels in the gas source.

GC Troubleshooting GC Columns and Accessories

GC Troubleshooting Video Series: GC Column Installation, Part 2. Proper column installation is one of the

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key items you'll need to know to get good performance from your gas chromatograph. In this video, Daron Decker, a GC Applications Specialist, and Herb Brooks, a service engineer, walk you through the steps to installing and conditioning a GC column.

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GC Troubleshooting

Video Series: GC

Column Inst ...

Prevention. Many GC

problems can be

prevented if the column

is properly installed and

GC is maintained

routinely. For example,

replacing septa or liner at

regular intervals and

keeping the injector and

detector clean and well-

maintained should solve

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many problems. Regular preventive maintenance depends on particular model of GC and you should consult required operations in the operator's and service manuals.

GC troubleshooting -

GC troubleshooting -

Hints and tips ...

1) Highly retained components eluting from

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the GC column —
strongly absorbed matrix
components (or indeed
analytes of interest) may
elute late in the
chromatogram or may be
migrating down the
column and eluting
several injections later
(look for unusually
broad peaks to confirm
this).

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Baseline Problems

Test the column at the optimum flow rate. Dirty injector. Clean or replace the liner. Stationary phase accumulated in the outlet. Remove the last two coils from the column. Detector base body temperature too low. Increase the temperature to 5 ° C below the column maximum. The sample is

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And Chromatography Troubleshooting Guides-

Gas Chromatography ...

Poor column cut at the inlet – column has a ragged cut or is not cut at 90 o to the column wall.

Re-cut the column (2-5cm) and inspect the quality of the cut with a magnifier or low power microscope. Column is

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improperly placed within the inlet – the end of the column is not at the correct height within the inlet.

Troubleshooting GC
peak shapes - Crawford
Scientific

Gas Chromatography:
Fundamentals,
Troubleshooting, and
Method Development
This course is designed

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for beginners and
intermediate-level
practitioners who want
practical laboratory
experience in gas
chromatography (GC).

Gas Chromatography:
Fundamentals,
Troubleshooting, and ...

- Replace critical seals (i.e., septa, O-rings, inlet disc, etc.)
- Maintain inlet liner and GC

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- Use properly deactivated liners, seals, and columns.
- Avoid sample overload.
- Verify column temperature and oven temperature program.
- Verify the carrier gas flow and linear velocity.

GC Troubleshooting

Poster - Restek

Preventing Problems •

The best way to solve

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problems is to prevent them! - Install and maintain proper purification for all gases in the GC system. - Maintain the injector by periodically inspecting and changing the liner, septa, and seal. - Use the proper injection technique - this includes using the right liner for the job.

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Basic Capillary GC

Theory and Practical
Troubleshooting

GC Troubleshooting

Series. Part Four: Tailing
Peaks. Daron Decker is a
GC Applications

Specialist for Agilent 's
Columns and Supplies

Division. Herb Brooks is
an Agilent service

engineer. Routine inlet
maintenance is essential
to preventing issues like

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tailing peaks. Possible

Cause: Column and Inlet
Maintenance.

Accessories

GC Troubleshooting
Series Part Four: Tailing
Peaks

Check the obvious and
routine things first: look
at maintenance logs,
check cables and
connections, leak check.
Isolate system
components and steps:

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confirm proper sample prep, perform a blank run, connect an alternate injector or detector, install a different column.

Troubleshooting &
FAQs / Chromatography
Information ...

In GC are evaporated samples and gas phase reactions, which are pressure dependent. The higher the pressure, the

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more a reaction shifts to the side of the lower volume component. In our case, three molecules of formaldehyde react to only one molecule of trioxane, so the formaldehyde partial pressure is 3 times higher than the partial pressure ...

Help! My Peaks Look
Strange - Saddle Points -

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LC/GC... Columns

Insert the outlet end of the column into the detector exactly the distance prescribed in the instrument manual.

Distances will vary between detectors.

Tighten the ferrule nut finger-tight then 1/2 turn with a wrench. If the column can still be moved, tighten another 1/4 turn until the column

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And

GC - Microsoft

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If your problem is not covered in the table, you can still systematically isolate the cause. There are five sources of problems in gas chromatography: the operator, the sample, the column, the instrument electrical systems, and the gas flow system.

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Eliminate these one by one to isolate the source of your problem. 1.

Accessories

Bulletin 853B - Sigma-Aldrich

GC Troubleshooting Guide » GC Column Selection Guide » GC Selection Poster »

Technical Notes:
Improved Recoveries of Polycyclic Aromatic Hydrocarbons (PAHs)

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» Detection and
Identification of Gulf Oil
Dispersants » Detection
of Environmental
Contaminants Caused by
the Oil Spill in the Gulf of
Mexico » Webinars:
Critical Choices: Best
Practices

Phenomenex Gas
Chromatography GC
Columns & Accessories
Install the column and

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into the inlet, as usual,
but let the detector end
freely in the furnace and
condition the column.

Then install the column
and into the detector.

Use a good quality, low
column bleed. Moisture
and oxygen in the carrier
gas deplete the stationary
phase of the column and
cause a bleeding.

Cleaning the detector -

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GC troubleshooting -

Hints and ...

The sample is immediately vaporized and a pressurized, inert, carrier gas--which is continually flowing from a gas regulator through the injector and into the GC column--sweeps the gaseous sample, solvent, analyte and all, onto the column. In the packed column injector, ALL the

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