

Gc Troubleshooting Gc Columns And Accessories

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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 30M x .53mm I.D., 3.0 µm 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 flows. Check the gas controllers. 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 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.

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 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 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).

GC Diagnostic Skills III | 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 overloading the column.

Chromatography Troubleshooting Guides-Gas Chromatography ...

Poor column cut at the inlet – column has a ragged cut or is not cut at 90° 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 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 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 column.
- Use properly deactivated liners, seals, and columns.
- Avoid sample overload. issues
- 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 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.

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 tailing peaks. Possible Cause: Column and Inlet Maintenance.

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: 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 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 - LC/GC ...

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 is secure.

GC - Microsoft

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

Bulletin 853B - Sigma-Aldrich

GC Troubleshooting Guide » GC Column Selection Guide » GC Selection Poster » Technical Notes: Improved Recoveries of Polycyclic Aromatic Hydrocarbons (PAHs) » 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 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 - 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 vaporized sample enters onto the column.

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