

# GC Troubleshooting Guide

Your guide to solving common problems and staying productive



## Checking the Basics

Assuming neither of problems exists, verify simple and often overlooked components of the GC system in analysis. Many of these items are common to the daily operation of the GC and are often tested for general (but broad) usage (1). The areas and items to check include:

- Check pressure, carrier gas storage (flow velocity and flow rate) (check with inert vacuum purge)
- Temperature (column, reactor, detector and sample tray)
- System elements (injector extension lines, detector extension and range, mass ranges etc)
- Gas lines and traps (check flow, leaks and expiration)
- Injector consumables (new liners, O-rings and ferrules)
- Sample integrity (contamination, degradation, solvent and storage)
- Samples handling (solvents, leaks, needle changes, and cleanliness)
- Data system, settings and connections

## Condensation Test

Use the test chamber (injector or carrier gas condensation systems) are affected (e.g. ghost peaks or peak broadening)

1. Leave the GC between 40 to 50 °C for 30 or more hours
2. Run a blank analysis (i.e. run the GC) but with the system using the normal temperature conditions and instrument settings
3. Collect the chromatogram for the blank run
4. Immediately repeat the blank run (stop the flow and a completed) (do not allow more than 5 minutes to elapse before starting the second blank run)
5. Collect the chromatogram for the second blank run and compare it to the first chromatogram.
6. If the first chromatogram contains a large amount of peaks and the second contains the morning carrier gas flow or the carrier gas is contaminated.
7. If both chromatograms contain few peaks or little baseline (BFL), the carrier gas and morning carrier gas flow are relatively clean.

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## Ghost Peaks or Contaminant



Problem	Cause	Solution
Ghost peaks or contaminant	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

## Excessive Baseline Noise



Problem	Cause	Solution
Excessive baseline noise	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

Problem	Cause	Solution
Excessive baseline noise	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

## Baseline Instability or Drift/Fluctuation



Problem	Cause	Solution
Baseline instability or drift/fluctuation	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

## Fluctuating Peaks



Problem	Cause	Solution
Fluctuating peaks	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

Problem	Cause	Solution
Fluctuating peaks	Contaminated carrier gas	Check carrier gas purity and replace if necessary
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	Contaminated column	Replace column
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Problem	Cause	Solution
Fluctuating peaks	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

## Split Peaks



Problem	Cause	Solution
Split peaks	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

## Resolution Time Shift



Problem	Cause	Solution
Resolution time shift	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

## Change in Peak Size



Problem	Cause	Solution
Change in peak size	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

Problem	Cause	Solution
Change in peak size	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
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Problem	Cause	Solution
Change in peak size	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

## Loss of Resolution



Problem	Cause	Solution
Loss of resolution	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

Problem	Cause	Solution
Loss of resolution	Contaminated carrier gas	Check carrier gas purity and replace if necessary
	Contaminated inlet or detector	Clean inlet and detector
	Contaminated column	Replace column
	Contaminated sample	Prepare clean sample

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**JE Gale**



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## **Table of Contents Instruction Guide Agile**

1. Understanding the eBook Instruction Guide Agile
  - The Rise of Digital Reading Instruction Guide Agile
  - Advantages of eBooks Over Traditional Books
2. Identifying Instruction Guide Agile
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Instruction Guide Agile
  - User-Friendly Interface
4. Exploring eBook Recommendations from Instruction Guide Agile
  - Personalized Recommendations
  - Instruction Guide Agile User Reviews and Ratings
  - Instruction Guide Agile and Bestseller Lists
5. Accessing Instruction Guide Agile Free and Paid eBooks
  - Instruction Guide Agile Public Domain eBooks
  - Instruction Guide Agile eBook Subscription Services
  - Instruction Guide Agile Budget-Friendly Options
6. Navigating Instruction Guide Agile eBook Formats

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  - Instruction Guide Agilent Compatibility with Devices
  - Instruction Guide Agilent Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Instruction Guide Agilent
    - Highlighting and Note-Taking Instruction Guide Agilent
    - Interactive Elements Instruction Guide Agilent
  8. Staying Engaged with Instruction Guide Agilent
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Instruction Guide Agilent
  9. Balancing eBooks and Physical Books Instruction Guide Agilent
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Instruction Guide Agilent
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Instruction Guide Agilent
    - Setting Reading Goals Instruction Guide Agilent
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Instruction Guide Agilent
    - Fact-Checking eBook Content of Instruction Guide Agilent
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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