

GC Troubleshooting Guide

Your guide to solving common problems and staying productive



Checking the Basics

Solving a number of problems made fairly simple and often involves components of the GC system or analysis files. If these items are consistent in the daily operation of the GC and are often noted for general (not brand-specific) GC, the areas and items to check include:

- Check pressure, carrier gas storage (flow velocity and flow rate) (check with inert helium purge)
- Temperature (column, reactor, detector and sample tray)
- System elements (purge activation times, detector activation and purge flow 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 (mixing, leaks, needle changes, and calibration)
- Data system, settings and connections

Condensation Test

Use the test chamber (injector or carrier gas condensation systems are included) (eg. great peaks or ghost loading)

1. Leave the GC between 40 to 50 °C for 30+ minutes
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 loading instability, the morning carrier gas line or the carrier gas is contaminated.
7. If both chromatograms contain few peaks or little loading (PFI, the carrier gas and morning carrier gas flow are relatively clean)

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Ghost Peaks or Loading



Problem	Cause	Solution
Ghost peaks	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Ghost peaks	Contaminated sample	Check sample integrity and replace if necessary
Ghost peaks	Contaminated column	Check column condition and replace if necessary
Ghost peaks	Contaminated detector	Check detector condition and replace if necessary
Ghost peaks	Contaminated injector	Check injector condition and replace if necessary
Ghost peaks	Contaminated sample tray	Check sample tray condition and replace if necessary
Ghost peaks	Contaminated sample vial	Check sample vial condition and replace if necessary
Ghost peaks	Contaminated sample syringe	Check sample syringe condition and replace if necessary
Ghost peaks	Contaminated sample needle	Check sample needle condition and replace if necessary
Ghost peaks	Contaminated sample vial cap	Check sample vial cap condition and replace if necessary
Ghost peaks	Contaminated sample vial seal	Check sample vial seal condition and replace if necessary
Ghost peaks	Contaminated sample vial holder	Check sample vial holder condition and replace if necessary
Ghost peaks	Contaminated sample vial rack	Check sample vial rack condition and replace if necessary
Ghost peaks	Contaminated sample vial tray	Check sample vial tray condition and replace if necessary
Ghost peaks	Contaminated sample vial cap liner	Check sample vial cap liner condition and replace if necessary
Ghost peaks	Contaminated sample vial cap seal	Check sample vial cap seal condition and replace if necessary
Ghost peaks	Contaminated sample vial cap seal liner	Check sample vial cap seal liner condition and replace if necessary
Ghost peaks	Contaminated sample vial cap seal liner liner	Check sample vial cap seal liner liner condition and replace if necessary
Ghost peaks	Contaminated sample vial cap seal liner liner liner	Check sample vial cap seal liner liner liner condition and replace if necessary

Excessive Baseline Noise



Problem	Cause	Solution
Excessive baseline noise	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Excessive baseline noise	Contaminated sample	Check sample integrity and replace if necessary
Excessive baseline noise	Contaminated column	Check column condition and replace if necessary
Excessive baseline noise	Contaminated detector	Check detector condition and replace if necessary
Excessive baseline noise	Contaminated injector	Check injector condition and replace if necessary
Excessive baseline noise	Contaminated sample tray	Check sample tray condition and replace if necessary
Excessive baseline noise	Contaminated sample vial	Check sample vial condition and replace if necessary
Excessive baseline noise	Contaminated sample syringe	Check sample syringe condition and replace if necessary
Excessive baseline noise	Contaminated sample needle	Check sample needle condition and replace if necessary
Excessive baseline noise	Contaminated sample vial cap	Check sample vial cap condition and replace if necessary
Excessive baseline noise	Contaminated sample vial seal	Check sample vial seal condition and replace if necessary
Excessive baseline noise	Contaminated sample vial cap liner	Check sample vial cap liner condition and replace if necessary
Excessive baseline noise	Contaminated sample vial cap seal liner	Check sample vial cap seal liner condition and replace if necessary
Excessive baseline noise	Contaminated sample vial cap seal liner liner	Check sample vial cap seal liner liner condition and replace if necessary
Excessive baseline noise	Contaminated sample vial cap seal liner liner liner	Check sample vial cap seal liner liner liner condition and replace if necessary

Baseline Instability or Disturbance



Problem	Cause	Solution
Baseline instability or disturbance	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Baseline instability or disturbance	Contaminated sample	Check sample integrity and replace if necessary
Baseline instability or disturbance	Contaminated column	Check column condition and replace if necessary
Baseline instability or disturbance	Contaminated detector	Check detector condition and replace if necessary
Baseline instability or disturbance	Contaminated injector	Check injector condition and replace if necessary
Baseline instability or disturbance	Contaminated sample tray	Check sample tray condition and replace if necessary
Baseline instability or disturbance	Contaminated sample vial	Check sample vial condition and replace if necessary
Baseline instability or disturbance	Contaminated sample syringe	Check sample syringe condition and replace if necessary
Baseline instability or disturbance	Contaminated sample needle	Check sample needle condition and replace if necessary
Baseline instability or disturbance	Contaminated sample vial cap	Check sample vial cap condition and replace if necessary
Baseline instability or disturbance	Contaminated sample vial seal	Check sample vial seal condition and replace if necessary
Baseline instability or disturbance	Contaminated sample vial cap liner	Check sample vial cap liner condition and replace if necessary
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Missing Peaks



Problem	Cause	Solution
Missing peaks	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Missing peaks	Contaminated sample	Check sample integrity and replace if necessary
Missing peaks	Contaminated column	Check column condition and replace if necessary
Missing peaks	Contaminated detector	Check detector condition and replace if necessary
Missing peaks	Contaminated injector	Check injector condition and replace if necessary
Missing peaks	Contaminated sample tray	Check sample tray condition and replace if necessary
Missing peaks	Contaminated sample vial	Check sample vial condition and replace if necessary
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Tailing Peaks



Problem	Cause	Solution
Tailing peaks	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Tailing peaks	Contaminated sample	Check sample integrity and replace if necessary
Tailing peaks	Contaminated column	Check column condition and replace if necessary
Tailing peaks	Contaminated detector	Check detector condition and replace if necessary
Tailing peaks	Contaminated injector	Check injector condition and replace if necessary
Tailing peaks	Contaminated sample tray	Check sample tray condition and replace if necessary
Tailing peaks	Contaminated sample vial	Check sample vial condition and replace if necessary
Tailing peaks	Contaminated sample syringe	Check sample syringe condition and replace if necessary
Tailing peaks	Contaminated sample needle	Check sample needle condition and replace if necessary
Tailing peaks	Contaminated sample vial cap	Check sample vial cap condition and replace if necessary
Tailing peaks	Contaminated sample vial seal	Check sample vial seal condition and replace if necessary
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Split Peaks



Problem	Cause	Solution
Split peaks	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Split peaks	Contaminated sample	Check sample integrity and replace if necessary
Split peaks	Contaminated column	Check column condition and replace if necessary
Split peaks	Contaminated detector	Check detector condition and replace if necessary
Split peaks	Contaminated injector	Check injector condition and replace if necessary
Split peaks	Contaminated sample tray	Check sample tray condition and replace if necessary
Split peaks	Contaminated sample vial	Check sample vial condition and replace if necessary
Split peaks	Contaminated sample syringe	Check sample syringe condition and replace if necessary
Split peaks	Contaminated sample needle	Check sample needle condition and replace if necessary
Split peaks	Contaminated sample vial cap	Check sample vial cap condition and replace if necessary
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Split peaks	Contaminated sample vial cap liner	Check sample vial cap liner condition and replace if necessary
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Resolution Time Shift



Problem	Cause	Solution
Resolution time shift	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Resolution time shift	Contaminated sample	Check sample integrity and replace if necessary
Resolution time shift	Contaminated column	Check column condition and replace if necessary
Resolution time shift	Contaminated detector	Check detector condition and replace if necessary
Resolution time shift	Contaminated injector	Check injector condition and replace if necessary
Resolution time shift	Contaminated sample tray	Check sample tray condition and replace if necessary
Resolution time shift	Contaminated sample vial	Check sample vial condition and replace if necessary
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Resolution time shift	Contaminated sample needle	Check sample needle condition and replace if necessary
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Change in Peak Size



Problem	Cause	Solution
Change in peak size	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Change in peak size	Contaminated sample	Check sample integrity and replace if necessary
Change in peak size	Contaminated column	Check column condition and replace if necessary
Change in peak size	Contaminated detector	Check detector condition and replace if necessary
Change in peak size	Contaminated injector	Check injector condition and replace if necessary
Change in peak size	Contaminated sample tray	Check sample tray condition and replace if necessary
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Change in peak size	Contaminated sample vial cap seal liner liner liner	Check sample vial cap seal liner liner liner condition and replace if necessary

Loss of Resolution



Problem	Cause	Solution
Loss of resolution	Contaminated carrier gas	Check carrier gas purity and replace if necessary
Loss of resolution	Contaminated sample	Check sample integrity and replace if necessary
Loss of resolution	Contaminated column	Check column condition and replace if necessary
Loss of resolution	Contaminated detector	Check detector condition and replace if necessary
Loss of resolution	Contaminated injector	Check injector condition and replace if necessary
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