

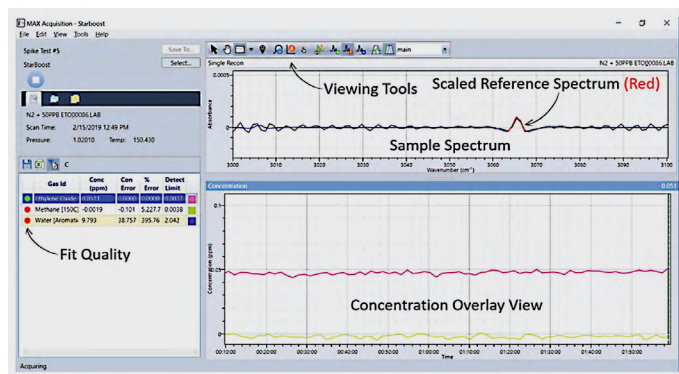
MAX-Analytical Software Suite

Integrated with the Thermo Scientific™ MAX-iR™ product family, the Thermo Scientific™ MAX-Analytical STANDARD Software Suite of four applications is designed for technicians and power users alike. The suite includes a quantitative spectral library and access to the qualitative NIST and EPA Gas Reference library with up to 5,500 compounds. Users can choose either the MAX-Analytical STANDARD or Thermo Scientific™ MAX-Analytical Advanced Software Suite to accommodate their needs.

STANDARD Software

The **MAX-Acquisition application** gives users the ability to control all data acquisition from a single interface with **flexible display options** for fast and easy assessment of data quality. Users can **create multiple methods for different purposes (e.g., online monitoring, QAQC)** with customizable workflows that automate data collection, sample/calibration gas flow rates, and hardware setpoints. Method scheduling is available and alarms can be set to sound alerts when a concentration exceeds a selected threshold.

With the **MAX-Acquisition reporting tools**, data can be automatically exported to Microsoft® Excel® software giving users the ability to customize templates. Integrated with a SQLite data base, users can save results as database entries to generate historical reports (optional), Automated QA Reports, or Certificates of Analysis for gas purity.









MAX-Acquisition STANDARD Software screen.

Innovative features include an **updated AutoReference algorithm** that, when used in conjunction with ultra-sensitive hardware configurations like the Thermo Scientific™ StarBoost™ Technology, **eliminates biases from baseline drift and does not require the user to collect a nitrogen background.**

The **MAX-Acquisition—Factory Integration** tools can be used to **easily configure gas concentration alarms**, capture readings from external analyzers and enable remote control of the MAX-iR hardware. Whether in the field or in the lab, MAX-Acquisition tools maximize instrument productivity and ensure high quality data collection.

Advanced Software

With the MAX-Analytical Advanced Software Suite, users have access to all the features available in the STANDARD Software package with the addition of the MAX Gas Reference Editor, which enables power users to create their own spectral libraries. **The MAX Gas Reference Editor is only available in the Advanced Software Suite** and allows users to easily build calibration curves, attach traceability documentation, refine reference spectra by subtracting interferences or correcting baselines, and define primary & secondary quantification regions.

-  **MAX-Acquisition:** Control all MAX Analytical hardware and acquire data. Set up automated workflows, alarms, and data publishing. Monitor hardware and gas concentration alarms. Access historical database (SQLite).
-  **QTA Viewer:** View summary results files and export to Excel reporting templates
-  **MAX-Analytics:** Analyze and reprocess FTIR data offline, optimize analysis methods, perform data validation, save summary results and export to Excel.
-  **MAX Gas Reference Editor:** View FTIR calibration profiles and accuracy and traceability information. Build calibration profiles
-  **Quant Library:** Quantitative spectral library including calibrations for ~250 gases
-  **NIST & EPA Library:** Qualitative spectral library with ~5500 gases

MAX-Analytical Software applications.

Description	Max STANDARD Software	Max Advanced Software
General		
Quantitative gas reference library (~250 compounds)		
NIST & EPA Gas reference library (~5500 compounds)	✓	✓
Analyze FTIR or StarBoost data		
Fast reprocessing of data		
MAX-Acquisition		
Data acquisition software	✓	✓
Configure instrument settings and data analysis parameters		
Flexible display options		
Alarm Monitor View for viewing hardware and gas alarms and general information		
Detailed View for viewing real-time results, data tables, FTIR spectral information	✓	✓
Concentration overlay for multigas analysis		
Create multiple methods for different purposes (online monitoring, QAQC, etc.)		
Customizable workflows that automate data collection, sample/calibration gas flow rates, and hardware setpoints		
Search for compounds by aliases, formula, or CAS number	✓	✓
Set alarm alerts when a concentration exceeds a selected threshold		
Reporting		
Export results file to Excel spreadsheet	✓	✓
End-of run reports		
Integrated SQLite database		
Automated QA Reports		
Generate historical reports to graph results over time	✓	✓
Generate Certificates of Analysis for gas purity analysis		
Factory integration		
Modbus TCP: Send alarms and concentration results in real-time to a facility's distributed control system (DCS) or PLC; capture readings from external devices; remote control	✓	✓
MAX Analytics		
Peak matching tool for identification of unknown compounds		
Real-time data quality indicators	✓	✓
Data analysis performed simultaneously with data collection		
MAX Gas Reference Editor		
Record traceability documentation for all gases in library		
Add own calibrations to the spectra library		✓
Subtract interferences from reference spectra		
Define primary & secondary quantification regions		