

The Thermo Scientific 524 Productivity Solution provides a comprehensive approach for integrating the Thermo Scientific DSQ™ II GC/MS system into the routine analysis of purgeable organics. Achieve remarkable detection limits with smaller sample volumes and generate revenue and reports within days following installation.

524 GC/MS Productivity Solution

Enhance sensitivity, throughput, and efficiency



524 Productivity Solution

The 524 Productivity Solution integrates the GC/MS hardware with the software, methods and consumables. Combined with a purge and trap system, it offers a complete yet fully customizable solution for transforming the DSQ II GC/MS into an analyzer dedicated to and optimized for the analysis of purgeable organics in drinking water.

Optimal Sensitivity & Flexibility

The 524 Productivity Solution ensures low detection limits for the complete EPA Method 524.2 compound list, with fast run times and the ability to analyze more customer samples per hour. Enhanced purging efficiency from a 5 mL sample size improves precision for difficult compounds, while the excellent sensitivity of the DSQ II system maintains or even improves detection limits.

Ease of Use

From standards at specific concentrations to methods and templates for acquisition and processing, the 524.2 Productivity Solution minimizes the time needed to begin running samples and maximizes productivity.

Pre-Qualified Performance

All components of the Productivity Solution were rigorously evaluated against US EPA Method 524.2 criteria to verify that the entire system and consumables meet the stringent quality control and detection limit requirements of the method.

Reliable and Routine Operation

A complete set of data documenting performance is included. From initial calibration, method detection limits proof of performance means reliable operation, day in and out.

Designed for use with the Thermo Scientific DSQ II mass spectrometer, the FOCUS™ or TRACE GC Ultra™ gas chromatographs, and a purge and trap system for sample introduction and concentration, the 524 Productivity Solution includes a complete set of software, manuals, standards, and consumables designed to work together to provide optimum performance. The 524 Productivity Solution

streamlines integration of the DSQ II GC/MS system into daily operations and transforms the system into an analyzer ideal for the routine performance of EPA Method 524.2. For more detailed information, please visit www.thermo.com and request Technical Note TN10174.

524.2 GC/MS Productivity Solution

Manuals, Software and Guides

EnviroLab™ Forms 2.0	Data review and reporting software designed for environmental laboratory workflows
SOP Manual	Hard copy of comprehensive Standard Operating Procedures for the method and the instruments
How To Manual & Quick Start Guide	Hard copy of How To manual, includes separate bench reference and Quick Start Guide for easy start-up and training
Quick Reference CD	Electronic versions of hardcopy manuals, methods and batch templates simplifies start-up
Validation Data CD	Comprehensive set of data and reports represents factory validation of method performance

High Performance Thermo Scientific Consumables and Hardware

CE Ion Volume and Holder	Solid inert ion volume to maintain response factors
Column Ferrules	Ensure leak free injection port connections
Analytical Column	TRACE™ TR-524 20m x 0.18 mm i.d. x 1.0 µm film offers optimal performance across wide compound range
Inlet Septa	9 mm BTO septa with minimal bleed for direct injections
Liner Seal, graphite	Ensures leak-free injection port
Transfer line ferrules	Ensure leak free connection at transfer line to mass spectrometer
Vials	72 pre-cleaned volatile organic (VOA) vials, clear with hole cap and septa, for sample integrity
Syringes	10 µL, 25 µL, 50 µL, & 100 µL gas tight syringes, and 5 mL and 25 mL Luer Lock syringes for precise standard measurement and sample introductions
Purge & Trap Adaptor Kit	GC interface kit for purge and trap to provide inert, leak-free path from concentrator to injection port

Pre-Diluted and Stock Standard Solutions

524.2 Volatile Organics Method Kit	24 ampoules in methanol, including the following:
	BFB (25 µg/mL): 5 x 1 mL ampoules
	524.2 Rev 4 Internal standards and surrogates (25µg/mL): 1 x 10 mL
	524.2 Calibration Gas Mix A (200 µg/mL): 6 x 1 mL
	524.2 Calibration Gas Mix B (20 µg/mL): 1 x 1 mL
	524.2 Calibration Gas Mix C (2 µg/mL): 1 x 1 mL
	524.2 Calibration Mix A (200 µg/mL): 6 x 1 mL
	524.2 Calibration Mix B (20 µg/mL): 1 x 1 mL
	524.2 Calibration Mix C (2 µg/mL): 1 x 1 mL
	524.2 Calibration Gas Mix X (200 µg/mL): Second source, different lot, 1 x 1 mL
	524.2 Calibration Mix X (200 µg/mL): Second source, different lot, 1 x 1 mL



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