

The 525 Productivity Solution provides a comprehensive approach for integrating the Thermo Scientific DSQ™ II GC/MS system into the routine workflows of environmental laboratories. Become productive quickly, achieve remarkable detection limits and generate revenue and reports within days following installation.

## 525 GC/MS Productivity Solution

Optimize sensitivity, performance and value



### 525 Productivity Solution

The 525 Productivity Solution integrates the GC/MS hardware system with the software, methods and consumables to provide a complete solution for transforming the DSQ II GC/MS system into an analyzer dedicated to and optimized for the analysis of semi-volatiles in drinking water.



### Pre-Qualified Performance

All components of the Productivity Solution were rigorously evaluated against US EPA Method 525.2 criteria to verify that the instrument system and consumables meets the stringent quality control and detection limit requirements of the method.

### Ease of Use

From standards at specific concentrations to methods and templates for acquisition and processing, the 525 Productivity Solution allows you to spend less time preparing to run samples and more time actually analyzing them.

### Reliable and Routine Operation

A complete set of data documenting performance is included. From Initial Calibration through Instrument Detection Limits, proof of performance means reliable operation, day in and out.

### Streamlined Integration

A complete set of manuals and guides takes users through basic and advanced operation of the system. Training is straightforward and standardized from user to user.

Designed for use with the Thermo Scientific DSQ II mass spectrometer, the TRACE GC Ultra™ gas chromatograph, and the AS 3000 autosampler, the 525 Productivity Solution includes a complete set of software, manuals, standards, and consumables designed to work together to provide optimum performance. The 525 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 525.2. For additional details on methods and results, please visit [www.thermo.com](http://www.thermo.com) and request TN10172.

## 525 GC/MS Productivity Solution

### Software, Manuals 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 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

|                          |  |
|--------------------------|--|
| 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-525 0.25 mm x 30 meter x 0.25 µm film offers optimal performance across wide compound range  |
| Inlet Septa              | BTO septa with minimal bleed and excellent high temperature performance  |
| Liner Seal (graphite)    | Ensures leak-free injection port   |
| Splitless Liner          | 5 mm ID deactivated liners offer excellent performance for wide range of compounds   |
| Transfer Line Ferrules   | Ensure leak free connection at transfer line to mass spectrometer  |
| Autosampler Vials        | 2 mL silanized amber vials and lids with PTFE red rubber septa to minimize bleed, maintain sample integrity, and prevent pesticide degradation |
| 5 µL Syringe             | Precise sample introduction for optimal reproducibility  |

### Pre-Diluted and Stock Standard Solutions

|                               |   |
|-------------------------------|---|
| 525.2 Semivolatile Method Kit | 30 x 1.2 mL ampoules in Ethyl Acetate, including the following:                               |
|                               | Semivolatile Calibration Curve (6 ampoules at 0.1, 0.5, 1.0, 2.0, 5 and 10 µg/mL)             |
|                               | Internal Standard and Surrogates (1 ampoule at 500 µg/mL)                                     |
|                               | Performance Check Solution (5 ampoules at 5 µg/mL)  |
|                               | Second Source Calibration Check Standard (5 ampoules at 5.0 µg/mL)                            |
|                               | Instrument Detection Limit Standard (5 ampoules at 0.5 µg/mL)                                 |
|                               | Aroclor 1016, 1221, 1232, 1242, 1248, 1254 and 1260. 7 individual ampoules at 1000 µg/mL each |
|                               | Toxaphene (1 ampoule at 5000 µg/mL)   |



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