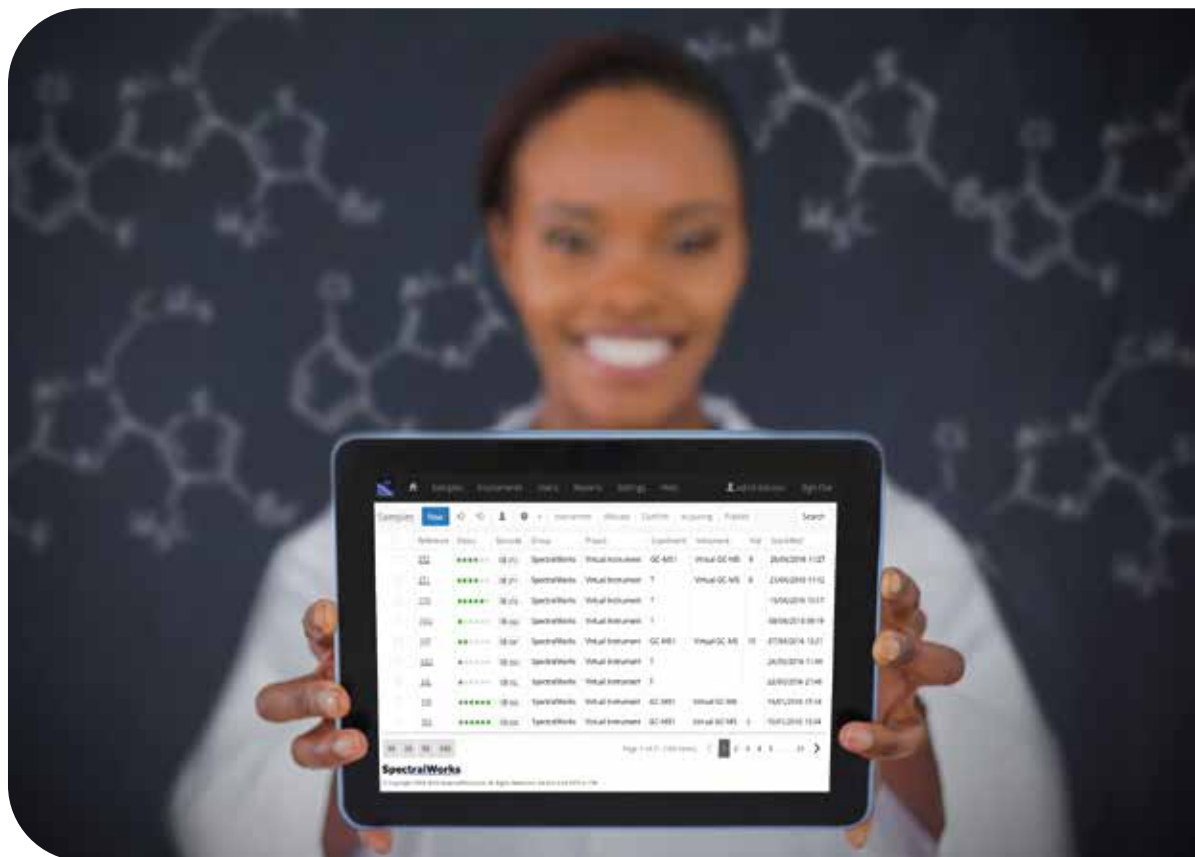


RemoteAnalyzer[®]

Open Access Software



The 'universal zero footprint' sample submission and data processing solution

SpectralWorks



Complete Control at your Finger Tips

From running an individual sample to managing a complete network of instruments and users, RemoteAnalyzer has the power to simplify every aspect of your laboratory operation. A robust yet intuitive open access software, RemoteAnalyzer works with all the major mass spectrometry instruments and NMR instruments to deliver reliable, high quality results no matter how complex your samples or workflows.

With real-time, web-based access and live updates, RemoteAnalyzer allows lab managers to control every aspect of their operation, from sample submission to final results with more efficiency than ever. Sample submission and final reports can be customized and tailored to suit a particular application or user group. The software also simplifies the lives of scientists, making it easy to log in samples and receive results anywhere, anytime.

RemoteAnalyzer at a Glance

- Single interface to multiple instruments with support for all major vendors
- Fast, convenient access to results via web or email on any device
- Predefined experiments and reporting enables users to access data and results
- Multiple levels of user access and control
- Compatibility with workflows in all types of laboratories
- Centralized data processing, storage and archiving
- Custom reports and usage reporting
- Support for LIMS and ELN integration
- Integrates with AnalyzerPro®
- Effortlessly track samples, schedule acquisition and control sample priority
- Zero footprint installation

Walk-up and High Throughput Sample Analysis for MS and NMR Instruments

Advances in high throughput techniques, chemistries and analyses, have revolutionized the research landscape. The use of automated systems underpins the majority of mass spectrometry approaches. This has been adopted in the Pharmaceutical industry, through all the 'Omics' but it has yet to be fully accepted within some of the chemistry communities. In many cases the high throughput approach means that the vast majority of users are not specifically trained mass spectrometrists. They don't need to be, so the sample submission, data acquisition and data presentation now demands a user friendly, robust client interface – the so called open access software. This allows mass spectrometry to be fully utilized as a research tool in wider application fields that have their own specialists. They still require a thorough understanding of mass spectrometry but they no longer need to have the day to day hands on capabilities. Much of the sample analysis required by, for example, medicinal chemists in drug discovery, is routine for instrument users but not necessarily for the chemist. They simply want to be able to submit their samples and get their results. RemoteAnalyzer allows them to do this with a variety of instruments such as GC-MS, LC-MS and NMR from multiple vendors through a consistent user interface and workflow.

Deployment

RemoteAnalyzer offers a one-stop-shop option for sample submission across multiple platforms, provides uniform e-data output and enhances data security by immediately archiving a

clone of the raw data files on a remote server. The only requirement for the user is access to a web-browser enabled computer, e.g. Internet Explorer, Chrome, Firefox etc. There is no additional software licence cost to the user. The data processing, file storage and web server can be configured to run on a single server or a number of servers depending on specific requirements and level of throughput.

Usability

For on-site users, as well as external clients, there is only a requirement to become familiar with a single software system for sample submission and data analysis and presentation. Users can be configured to have specific permissions and access to specific instruments or methods as required. A familiar web style user interface is used irrespective of the underlying host instrument. In this way, users are presented with a consistent look and feel to sample submission and interaction with the service. Users may arrange for multiple injections from a single sample vial if required. Simple point and click menus allow for sample submission and reviewing of results of completed sample analyses as well as editing of user settings. Sample submission can be either instrument or method centric. In the former, the chemist is able to select the specific instrument that they want to run their sample(s) on. In the latter, they select the method they want to run and the system will direct them to the most relevant instrument based on technique and availability. This can be configured on a per user basis. Authorized users can register samples for analysis from anywhere if they have the relevant permission which can include external institutions. One-off training sessions can now be undertaken face to face or via a live web-link for off-site users, dramatically reducing staff time dedicated to user training. With a single system there is also a reduced requirement for re-training due to infrequent use of one or the other systems. Authorized users are also able to remotely view their results.

Management System Setup and Tracking

The administrator has the option to give access to user accounts, instrument configuration and method set up and system configuration. RemoteAnalyzer works in conjunction with the native instrument software to provide a simple to use top level interface. Reports can be customized to provide management information such as instrument utilization or

user/group activity. Additionally, automated report templates can be created to be printed or emailed, for example, monthly invoices can be generated for each research group based on their usage.

Data Acquisition and Processing

Data acquisition is carried out using the native instrument software so the acquired data files are maintained entirely intact and independent from subsequent data processing. Data files are converted into a file format optimized for file size and data processing speed. Processing methods are created by the administrator using the relevant section in 'System Setup' and the secure results are made available on the server or passed to another location as required. Further data processing can be carried out using local copies of AnalyzerPro®, where AnalyzerPro fully integrates and communicates with the RemoteAnalyzer server. All the additional MS data processing capabilities within AnalyzerPro are then available to the user. This includes Target Component Analysis, Library searching, and Quantitation as well as advanced features such as MatrixAnalyzer™ which allows multiple sample comparison and data analysis. Powerful features such as Principal Component Analysis of their MS data is also available. In a similar manner NMR data can be easily taken in to specialized third party software.

Summary

The mass spectrometrists does not need to compromise choice of open access instrumentation based on functionality of proprietary open access software since RemoteAnalyzer is a cross-platform option. Additional benefits include the ease of system and sample monitoring, enhanced administration benefits such as real-time accounting and tracking of group and individual usage. Administration of the system is extremely flexible and the administrator can monitor and interact with any sample at any time. The output to the users is posted immediately on the server for ready access at any time and can be easily transferred to an electronic document or electronic notebook. RemoteAnalyzer is the 21st Century solution to instrument management, data handling and reporting. The cross platform capability of this software means instrument choice due to software related issues is not relevant.

The Universal Zero Footprint Sample Submission and Data Processing Solution for MS and NMR.

RemoteAnalyzer is the open access software solution for today's fast-paced laboratory. It is designed to operate and optimize the management of multiple locations, multiple types of analysis, multiple scientists of the entire skill set range as well as multiple instrument types from all the major instrument vendors. The walk-up easy access provided by RemoteAnalyzer automatically leads scientists through sample submission and experiment selection making mass spectrometry and NMR accessible to everyone under one simple interface.



Managers Gain Greater Control and Convenience:

- From running an individual sample to managing a complete network of instruments and users, you can simplify every aspect of your laboratory operation.
- Analytical systems may be clustered in a single facility, spread across an entire campus, or even multiple remote sites, according to your needs.
- Controls all your MS and NMR instruments using robust and intuitive software to deliver reliable, high quality results no matter how complex your samples or workflows.
- Delivers laboratory managers efficient control and oversight over every aspect of their operation remotely on any device.
- Web based access with real-time updates, allows managers to 'keep a finger on the pulse' regardless of physical location.
- Sample submission templates and final reports can be customized to suit a particular application or user group. Which simplifies the workflow making it easy to log samples and receive results anywhere and at any time.
- The requirement for user training is significantly reduced and the need for users to learn multiple software packages is eliminated.
- Support for single samples, batches of samples and sample plates submission. Samples can be run as soon as possible, according to their priority or may be scheduled to run at periods of lower demands such as overnight.

Web-based Software Allows Easy, Remote Access

RemoteAnalyzer offers full remote access over the internet, secure within your firewall. With fast and easy navigation, it simplifies the lives of lab managers, administrators and end users / chemists without compromising on analytical flexibility.

Users Appreciate Greater Ease-of-Use and Efficiency:

- Data files and sample meta data accessible using a web browser allows a single point of access to all your information.
- Reach maximum potential and increase productivity and throughput by being able to use any instrument without the need for specific training.
- Simplifies workflow in three clearly defined steps.
- Use of barcodes reduces possible transcription errors and streamlines sample submission workflow.
- Results received electronically may be manipulated with any web browser. No need for vendor specific software.
- Increased instrument utilization reduces the per sample cost of analysis.

User Privileges:

- Assign users to particular groups or projects as either a user or a supervisor.
- Define instruments, methods and experiments for each user or group.
- Manage the users' access to the system, their permissions and data.

Experiential Setup

- Select sample submission template as this defines the sample meta data required from the user.
- Define instrument acquisition method.
- Assign post acquisition data processing method and set reporting requirements.

Monitor and Manage

- Setup system-wide or user-specific alerts for instrument availability and system status information.
- Create reports based on instrument, method, or group for simplified visibility and recording of key utilization figures.
- Create raw data archiving on the remote server for greater security, easy access and reduced storage on instrument computers.
- Track instrument usage to effectively schedule preventive maintenance.
- Review analysis information for individual users, groups, sites or projects, at any time, from any location.



Everyone from first time users to experienced chemists can work faster, easier and more efficiently with RemoteAnalyzer.

Each step is clearly defined in this simple to use, intuitive software where users can be up and running their samples in minutes without having to spend time learning software for all the instruments in the laboratory.

Efficiency Delivered in Three Simple Steps

Increase the efficiency and productivity within your laboratory for all your MS and NMR sample analysis requirements.

Unique to RemoteAnalyzer is the ability to submit samples and review data across multiple vendors' platforms and analytical techniques. One 'Remote' controls everything in three simple steps.



Submit

To submit a sample, select the group, project and experiment and then click on the 'Add Sample' button.

Submission Details:

Group: SpectralWorks

Project: P192a

Owner: John Moncur

Experiment: Drug Screen

General drug screen experiment

Add Sample Import Samples

SpectralWorks

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Each experiment has a sample submission template that is set by the administrator and can be customized to meet the exact needs of the user. This may be meta data, health and safety information or it can be additional instrument parameters, like injection volume or user specific data processing parameters.

Submission Details:

Sample Reference *: SJC_067

Barcode *: 8DU

Notes: Urine sample from athlete AO31452

Peak Detection Processing Method:

Save Cancel

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Once you have provided the relevant information, click 'Save' to submit your sample.

Scan & Confirm

After you have submitted your sample, you'll need to take it into the laboratory. Once there, use the barcode scanner to scan the barcode on your sample or if you have submitted a plate, you can scan the plate's barcode. The Sample Confirmation software will instruct you which instrument is going to acquire your sample and the vial position on the auto-sampler you need to place your sample. After you have correctly placed your sample, tap 'Confirm' so that RemoteAnalyzer knows that it can acquire the sample.



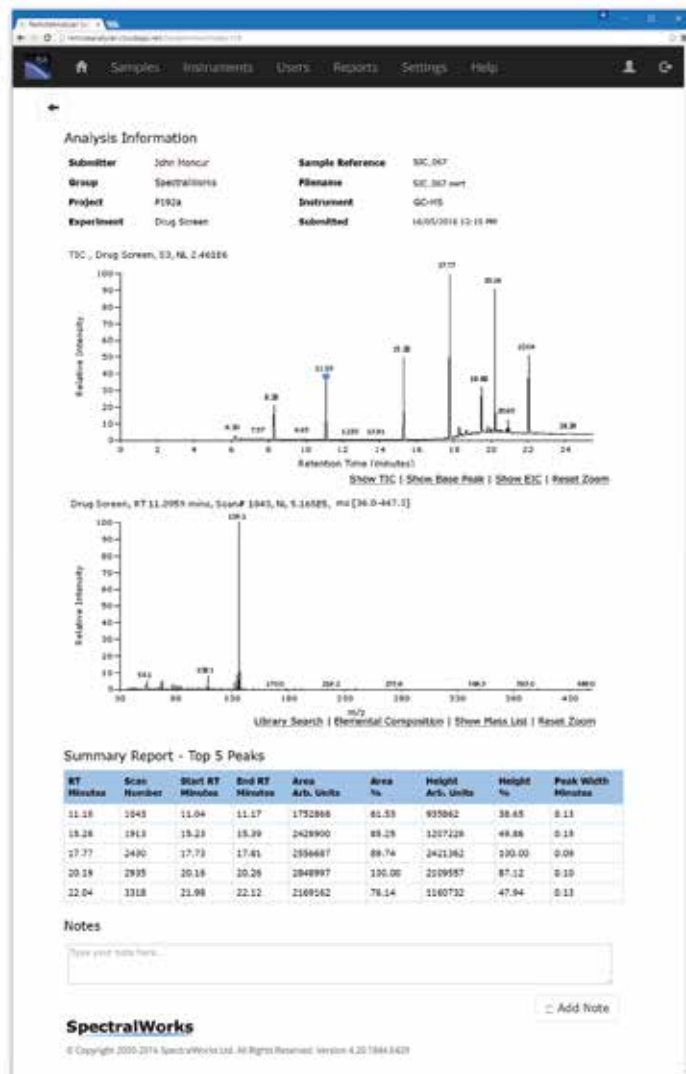
Review Results

For results on the go and as quickly as possible, RemoteAnalyzer can be configured to automatically notify you and email the results to you. The perfect solution when fast turnaround is a must have requirement for your laboratory.



Sometimes though a PDF report of your results isn't enough. Perhaps you want to zoom in on a section of the chromatogram, or look at the spectrum at a given retention time. If this is what you require, you can log into RemoteAnalyzer from any device and access your sample's raw data or your processing results and use our interactive tools, all within your standard web browser.

Regardless of instrument vendor or analytical technique, such as GC-MS, LC-MS or NMR, RemoteAnalyzer provides you with one simple, consistent user interface to drive efficiency and increase productivity within your laboratory. The simple way samples can be submitted allows many more non-expert users to use your instruments correctly. This in turn increases the number of samples which can be run by your instruments and effectively reduces the per sample cost of sample analysis.



About SpectralWorks Limited

SpectralWorks Limited is a leading UK based software development company.

We are dedicated to providing innovative solutions targeted for markets within the life sciences industry and have strong working relationships with a number of the major instrument manufacturers. Coupled with our collaborations in academia and industry, we believe we have the right balance between scientific and software development expertise to provide the best scientific solutions for the end user.

Our vision at SpectralWorks is to improve the way software is integrated within the laboratory environment by providing the correct solutions to increase productivity and reduce overheads. We achieve this by maintaining focus on the end user, listening to their requirements and ensuring that they have the right tools to handle their day to day tasks.

In addition to the wide range of mass spectrometry software products, we provide highly respected consultancy services. These services are able to cover the complete software development cycle or specific steps within a project life cycle. These services are frequently utilized by instrument vendors and end users that demand the best for their laboratories.

We are a privately owned company, incorporated in the United Kingdom in January 2004 and are based in Runcorn, United Kingdom. Our offices are located on a 60 acre business park 25 miles from Manchester International Airport and 10 miles from Liverpool's John Lennon Airport.

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Our facilities provide us with access to MS and other instrumentation as well as ensuring that we have the best infrastructure to develop and test software.

As well as direct sales, we have partner resellers. SpectralWorks offers Original Equipment Manufacturers (OEM) the ability to distribute our products and algorithms using their own branding. We also provide custom development for individual companies looking to automate and unify the software used within their laboratories using our extensive industry experience.

Our customer base is varied but predominately based within Australasia, Europe and North America. It encompasses academia, hospitals, government and industry.

Support is available via telephone, email or our web based support site. We always reply to communication as soon as possible and endeavour to reply within 24 hours with a statement of the problem and an estimated date for a solution.

About RemoteAnalyzer

RemoteAnalyzer is an open-access software solution that offers real-world benefits throughout the lab. It simplifies the workflow for every analysis for your chemists and optimizes the efficiency of your business.

To let yourself in on a whole new level of laboratory insight, control and productivity, contact us to arrange a demo:

<http://www.spectralworks.com>
info@spectralworks.com



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