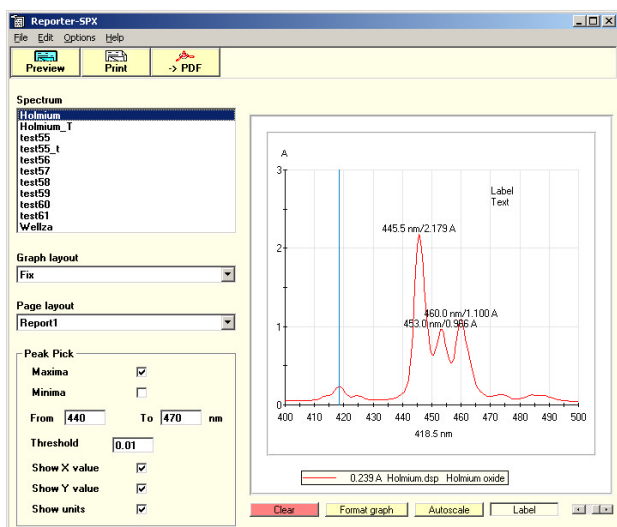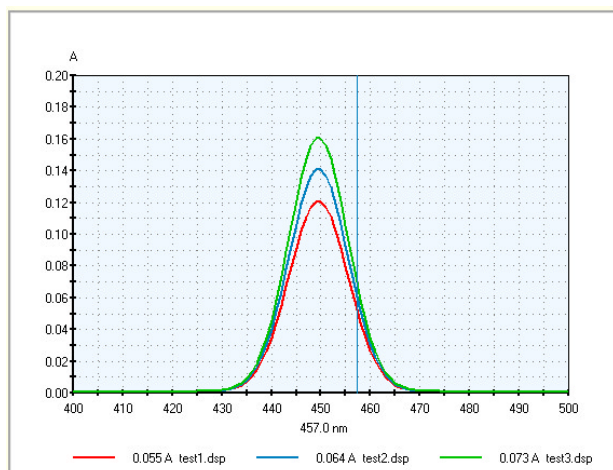# Reporter-SPX
A powerful Tool for Presenting Spectra and Results

Analytical results are presented in reports like inspection protocols, analysis certificates or scientific publications. This requires flexible options for the presentation of data and results, offered by the Reporter-SPX software, a powerful presentation software specifically designed for spectroscopic purposes.

Reporter-SPX main window

Reporter-SPX is installed as an add-on to the Thermo Scientific VISIONlite® or the ascanis OptLab-SPX and Lambda-SPX software. Thus it allows to extensively format the graphic and page layout of the result presentations of the basic software. Layouts may be defined as generally applicable or as method specific.

Diagram Options

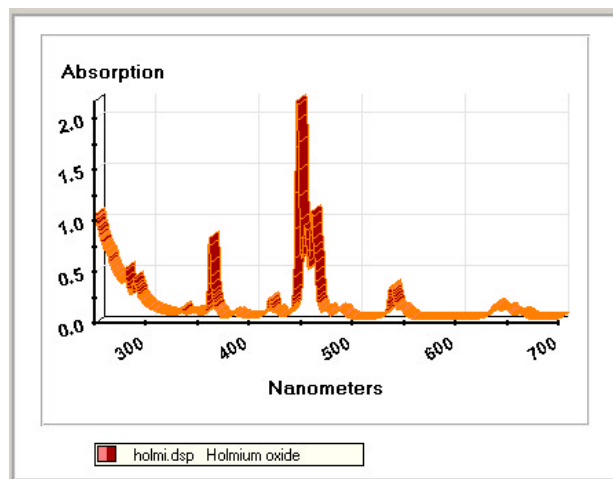Reporter-SPX presents data in a configurable diagram with numerous options:

- Size of diagram, border, header and background colour,
- Line width, type and colours for curves and axis,
- Overlay of several sample and reference curves,
- Spacing, type and depiction of grid lines,
- Position, size and type of legend,
- Logarithmic scaling,
- Data referenced to second ordinate,
- Scaling fixed, rounded or automatically expanded.

Page Layout Options

The diagram is the main part of the report, which is further defined through a page layout. The page layout defines the position of the diagram, resp. diagrams and the type of other report elements:

- Labelling of the report with fixed texts, measurement parameters and user inputs as requested during report generation,
- Graphical elements like a bitmap company logo,
- Automatic insertion of reference spectra to the diagram,
- Import of information from the clipboard or file, e.g. for importing additional calculation results,
- Page numbering and report footnote, e.g. for a signature field.

The print preview shows the appearance of the final result with a single mouse-click.

Reporter-SPX diagram examples

Data Processing Options

Additionally to the described design options Reporter-SPX offers options for data evaluation. This can be e.g. peak detection:. Peaks and minima may be labelled interactively in a selected wavelength range and with a selected threshold. Above that the report can also show peak tables, single readings and ordinate listings of spectra. Simple calculations and decisions can be performed with spectrum data and user entries. By implementing VBA scripts which are executed during the report generation also demanding data evaluations can be performed.

Report Export

After generation the report can be printed or stored in various data formats like PDF, TIFF, RTF or HTML. The PDF format is especially suitable for the transmission and storage of reports because the files are safe and the format is widely accepted.

Bitmap graph as page header

Formatted diagram
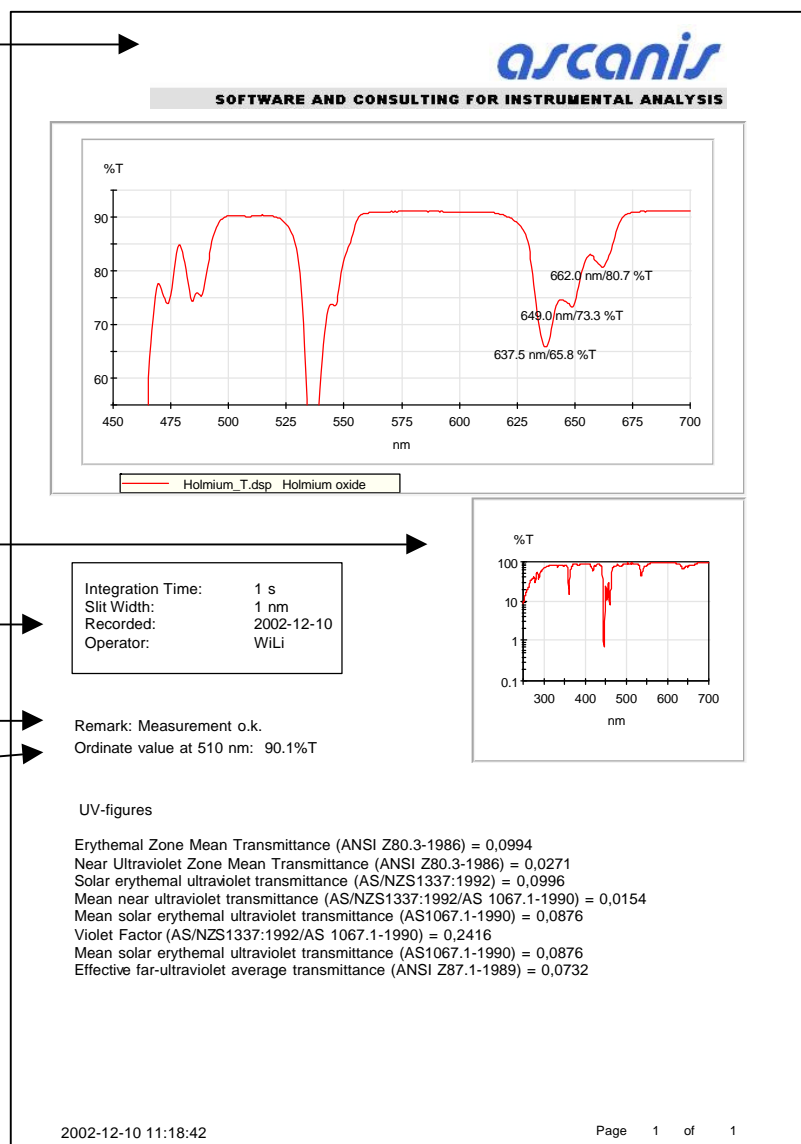
Second diagram with logarithmic ordinate

Measurement parameters taken from data set

User entry during report generation

Data readout from spectrum

Imported results

Page footnote with page number and print date

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SOFTWARE AND CONSULTING FOR INSTRUMENTAL ANALYSIS

662.0 nm/80.7 %T

649.0 nm/73.3 %T

637.5 nm/65.8 %T

Holmium_T.dsp   Holmium oxide

Integration Time: 1 s
Slit Width: 1 nm
Recorded: 2002-12-10
Operator: WiLi

Remark: Measurement o.k.
Ordinate value at 510 nm: 90.1%T

UV-figures

Erythemal Zone Mean Transmittance (ANSI Z80.3-1986) = 0,0994
Near Ultraviolet Zone Mean Transmittance (ANSI Z80.3-1986) = 0,0271
Solar erythemal ultraviolet transmittance (AS/NZS1337:1992) = 0,0996
Mean near ultraviolet transmittance (AS/NZS1337:1992/AS 1067.1-1990) = 0,0154
Mean solar erythemal ultraviolet transmittance (AS1067.1-1990) = 0,0876
Violet Factor (AS/NZS1337:1992/AS 1067.1-1990) = 0,2416
Mean solar erythemal ultraviolet transmittance (AS1067.1-1990) = 0,0876
Effective far-ultraviolet average transmittance (ANSI Z87.1-1989) = 0,0732

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Reporter-SPX example report

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