

FT-IR Spectrometer – Bruker

ALPHA II, Invenio, HTS-XT

INTRODUCTION

The Lumetics LINK™ software platform scans network locations for new measurement data files, copies data directly to a centralized database, and provides a powerful user interface for rapid multi-measurement multi-technique data aggregation, visualization, analysis, and reporting. LINK employs a client/server-based architecture where the LINK server hardware is provided by the end user and resides on the end user's network. The LINK client is a portable web-based application that may be placed on any computer with network connectivity to the LINK server. For successful import, the LINK webserver requires read access to the folders where user data resides.

Fourier-transform infrared spectroscopy (FTIR) is a technique used to obtain an infrared spectrum of absorption or emission of a solid, liquid or gas. An FTIR spectrometer simultaneously collects high-spectral-resolution data over a wide spectral range. Bruker FT-IR Spectrometers are intelligent systems for analytical and demanding R&D.

DETAILS

LINK requires JCAMP or dpt. file formats. The JCAMP file is generated automatically by the FT-IR software.

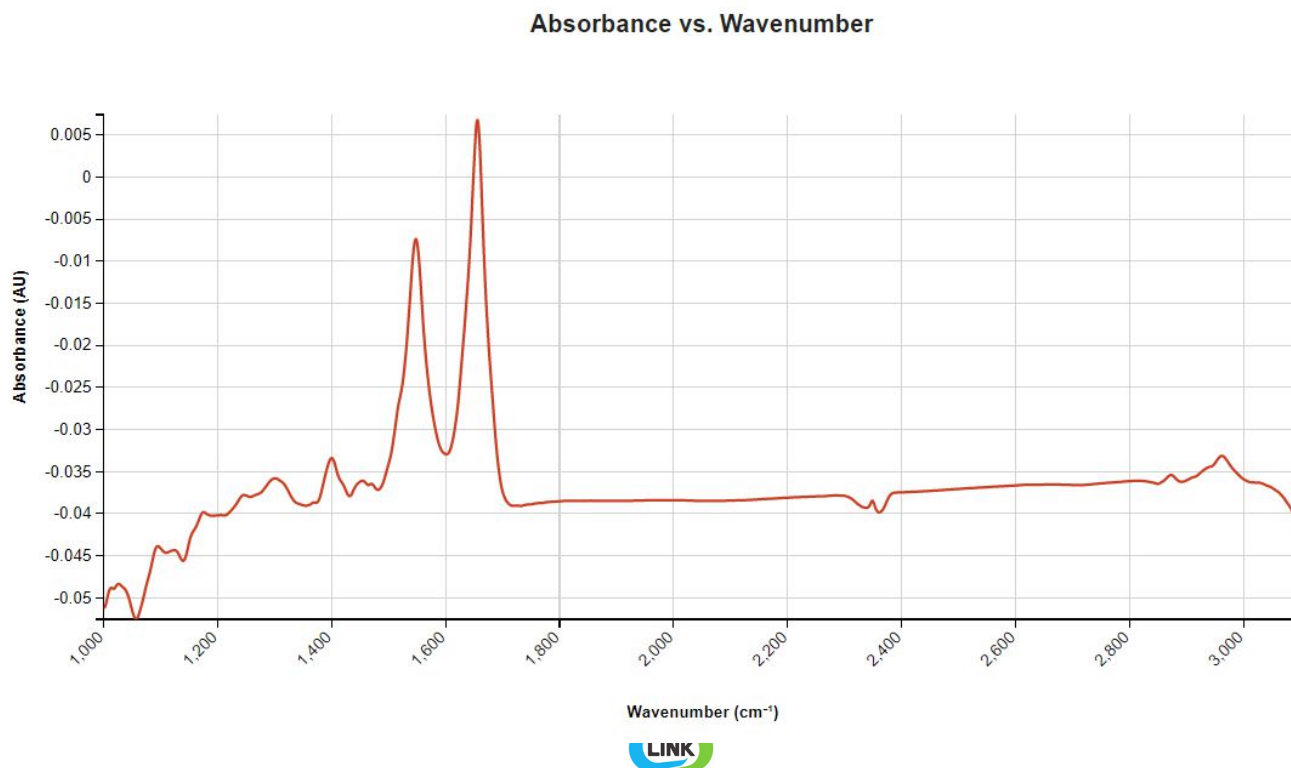
The following raw curve data may be imported via dpt. file, in addition to all available instrument/analysis settings and parameters calculated by the instrument software:

- Absorbance vs. Wavenumber (cm^{-1})

EXAMPLES

Included below are sample dashboards from Bruker FT-IR measurement files:

1. Line Chart plotting raw data curves for Absorbance vs. Wavenumber



2. Tabular Summary examples:

Measurement Summary Table – Measurement Results

LINK Record ID #	Sample Name	Absorbance (AU) (Wavenumber (cm ⁻¹) >=5) - AVG	JCAMP-DX - AVG	RESOLUTION - AVG	MINY - AVG	MAXY - AVG	LASTX - AVG	FIRSTY - AVG	FIRSTX - AVG	DELTA - AVG
1	Sample A	-107.90	4.24	4	-0.05	0.01	999.83	-0.04	3098.76	-0.71
2	Sample B	-107.90	4.24	4	-0.05	0.01	999.83	-0.04	3098.76	-0.71

Measurement Summary Table – Instrument Settings

LINK Record ID #	Operator	Sample Name	File Name	Version	XFACTOR - AVG	YFACTOR - AVG	YUNITS	XUNITS	DATA TYPE
1	Lumetics 1	Sample A	27-Feb-2020_B...	JCAMP-DX4.24	1	0.00	ABSORBANCE	1/CM	INFRARED SPE...
2	Lumetics 2	Sample B	27feb2020-JCA...	JCAMP-DX4.24	1	0.00	ABSORBANCE	1/CM	INFRARED SPE...

DASHBOARD DOWNLOAD

Included below is a link to downloadable dashboards for Bruker FT-IR measurement files:

<http://lumetics.com/dashboards/BrukerFTIR/BrukerFTIR.zip>

CONTACT LUMETICS

For direct assistance, please contact Lumetics LINK™ Support:

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