

Package ‘tofsimsData’

January 16, 2025

Type Package

Title Import, process and analysis of ToF-SIMS imaging data

Version 1.34.0

Date 2014-10-23

Author Lorenz Gerber, Viet Mai Hoang

Maintainer Lorenz Gerber <genfys@gmail.com>

Depends R (>= 3.2.0)

Description This packages contains data to be used with the 'tofsims' package.

License GPL-3

Suggests knitr, rmarkdown, tools

VignetteBuilder knitr

biocViews ExperimentData, MassSpectrometry, ImagingMassSpectrometry,
DataImport

NeedsCompilation no

git_url <https://git.bioconductor.org/packages/tofsimsData>

git_branch RELEASE_3_20

git_last_commit b414bf6

git_last_commit_date 2024-10-29

Repository Bioconductor 3.20

Date/Publication 2025-01-16

Contents

tofsimsData-package	2
testImage	2
testSpectra	3
Index	4

tofsimsData-package *tofsimsData*

Description

ToF-SIMS Toolbox

Details

Package: tofsimsData
Type: Package
Version: 0.99
Date: 23-10-2014
License: GPL (>=2)
LazyLoad: yes

Toolbox for Time-of-Flight Secondary Ion Mass-Spectrometry (ToF-SIMS) data processing and analysis. The package facilitates importing of raw data files, loading preprocessed data and a range of multivariate analysis methods that are most commonly applied in imaging (ToF-SIMS) mass spectrometry.

Author(s)

Lorenz Gerber <lorenz.gerber@slu.se>

testImage *Example ToF-SIMS data*

Description

A dataset containing a MassImage recorded on a Ulvac-Phi TRIFT-II ToF-SIMS. The .RAW data file was imported using `tofsimsImage<-MassImage('ulvacrawpeaks','filename',PeakList=tofsimsSpectra)`. The sample is a freeze-dried transversal poplar wood section of 100 micrometer thickness.

Usage

```
data(tofsimsData)
```

Format

A MassImage object

Value

MassImage object

`testSpectra`*Example ToF-SIMS data*

Description

A dataset containing a `MassSpectra` recorded on a Ulvac-Phi TRIFT-II ToF-SIMS. The `.RAW` data file was imported using `tofsimsSpectra<-MassSpectra('ulvacraw', 'filename')`. The sample is a freeze-dried transversal poplar wood section of 100 micrometer thickness.

Usage

```
data(tofsimsData)
```

Format

A `MassSpectra` object

Value

`MassSpectra` object

Index

- * **dataset**

- testImage, [2](#)
 - testSpectra, [3](#)

- * **package**

- tofsimsData-package, [2](#)

testImage, [2](#)

testSpectra, [3](#)

tofsimsData-package, [2](#)