

Package ‘tofsimsData’

November 30, 2023

Type Package

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

Version 1.30.0

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_18

git_last_commit cb3768d

git_last_commit_date 2023-10-24

Repository Bioconductor 3.18

Date/Publication 2023-11-30

R topics documented:

| | |
|-------------------------------|---|
| 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](#)