

Package ‘tofsimsData’

April 17, 2025

Type Package

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

Version 1.37.0

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 devel

git_last_commit d6d2e82

git_last_commit_date 2025-04-15

Repository Bioconductor 3.22

Date/Publication 2025-04-17

Contents

tofsimsData-package	2
testImage	2
testSpectra	3
Index	4

tofsimsData-package	<i>tofsimsData</i>
---------------------	--------------------

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	<i>Example ToF-SIMS data</i>
-----------	------------------------------

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](#)