

# Package ‘tofsimsData’

October 12, 2023

**Type** Package

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

**Version** 1.28.0

**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\_17

**git\_last\_commit** 81235d9

**git\_last\_commit\_date** 2023-04-25

**Date/Publication** 2023-10-12

## R topics documented:

|                               |   |
|-------------------------------|---|
| tofsimsData-package . . . . . | 2 |
| testImage . . . . .           | 2 |
| testSpectra . . . . .         | 3 |

|              |          |
|--------------|----------|
| <b>Index</b> | <b>4</b> |
|--------------|----------|

---

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](#)