

imzMLConverter 1.3

File

Input Files Image File Sample Software Scan Instrument Data Processing

Files that make up the image:

☐ Remove empty spectra

Z:\OMG_MSI_DATA\mzml files\27_10_2023_rat_brain_cont_13.mzML

x and y pixels information from .map file

mzML file to convert

Number of x and y pixels

cont_rat_brain_13.map - Notepad

```
File Edit Format View Help
101,00000 161,00000 0.00000 0.114940 150.00000 2.00000 0.00000 0.007798 150.00000 2.10000 0.00000 0.135498 150.00000 2.20000 0.00000 0.255906 150.00000 2.30000 0.00000 0.376778 150.0000
00 4.50000 0.00000 3.025253 150.00000 4.60000 0.00000 3.136004 150.00000 4.70000 0.00000 3.256580 150.00000 4.80000 0.00000 3.377932 150.00000 4.90000 0.00000 3.489233 150.00000 5.00000
0 0.00000 6.045050 150.00000 7.20000 0.00000 6.155483 150.00000 7.30000 0.00000 6.268117 150.00000 7.40000 0.00000 6.380408 150.00000 7.50000 0.00000 6.490192 150.00000 7.60000 0.00000
9.08425 150.00000 9.80000 0.00000 9.128208 150.00000 9.90000 0.00000 9.239744 150.00000 10.00000 0.00000 9.349281 150.00000 10.10000 0.00000 9.46063 150.00000 10.20000 0.00000 9.58085
150.00000 12.30000 0.00000 12.015747 150.00000 12.40000 0.00000 12.146313 150.00000 12.50000 0.00000 12.266864 150.00000 12.60000 0.00000 12.380427 150.00000 12.70000 0.00000 12.500998
150.00000 14.80000 0.00000 14.950672 150.00000 14.90000 0.00000 15.061901 150.00000 15.00000 0.00000 15.182153 150.00000 15.10000 0.00000 15.302629 150.00000 15.20000 0.00000 15.419447
150.00000 17.30000 0.00000 17.843457 150.00000 17.40000 0.00000 17.952424 150.00000 17.50000 0.00000 18.073190 150.00000 17.60000 0.00000 18.204274 150.00000 17.70000 0.00000 18.334288
000 0.00000 35.576769 150.10000 3.00000 0.00000 35.445470 150.10000 3.90000 0.00000 35.334987 150.10000 4.00000 0.00000 35.215671 150.10000 4.10000 0.00000 35.093900 150.10000 4.20000 0.00000
150.10000 6.30000 0.00000 32.499969 150.10000 6.40000 0.00000 32.388616 150.10000 6.50000 0.00000 32.278575 150.10000 6.60000 0.00000 32.168105 150.10000 6.70000 0.00000 32.047514 150.1
0000 29.580861 150.10000 8.90000 0.00000 29.471682 150.10000 9.00000 0.00000 29.358632 150.10000 9.10000 0.00000 29.238997 150.10000 9.20000 0.00000 29.109492 150.10000 9.30000 0.00000
2425 150.10000 11.40000 0.00000 26.583137 150.10000 11.50000 0.00000 26.462239 150.10000 11.60000 0.00000 26.351509 150.10000 11.70000 0.00000 26.242395 150.10000 11.80000 0.00000 26.13
21412 150.10000 13.90000 0.00000 23.681199 150.10000 14.00000 0.00000 23.480835 150.10000 14.10000 0.00000 23.367363 150.10000 14.20000 0.00000 23.258527 150.10000 14.30000 0.00000 23.1
800266 150.10000 16.40000 0.00000 20.683631 150.10000 16.50000 0.00000 20.571163 150.10000 16.60000 0.00000 20.445464 150.10000 16.70000 0.00000 20.340330 150.10000 16.80000 0.00000 20.
150.20000 2.80000 0.00000 38.586868 150.20000 2.90000 0.00000 38.695766 150.20000 3.00000 0.00000 38.816781 150.20000 3.10000 0.00000 38.940801 150.20000 3.20000 0.00000 39.059997 150.2
0000 41.476273 150.20000 5.40000 0.00000 41.585498 150.20000 5.50000 0.00000 41.706731 150.20000 5.60000 0.00000 41.815908 150.20000 5.70000 0.00000 41.947436 150.20000 5.80000 0.00000
0 7.90000 0.00000 44.443632 150.20000 8.00000 0.00000 44.573339 150.20000 8.10000 0.00000 44.694037 150.20000 8.20000 0.00000 44.815230 150.20000 8.30000 0.00000 44.936171 150.20000 8.
0 47.444779 150.20000 10.50000 0.00000 47.565778 150.20000 10.60000 0.00000 47.686464 150.20000 10.70000 0.00000 47.807417 150.20000 10.80000 0.00000 47.930838 150.20000 10.90000 0.00000
00 50.349091 150.20000 13.00000 0.00000 50.459901 150.20000 13.10000 0.00000 50.579418 150.20000 13.20000 0.00000 50.700753 150.20000 13.30000 0.00000 50.810844 150.20000 13.40000 0.0000
00 53.274873 150.20000 15.50000 0.00000 53.395870 150.20000 15.60000 0.00000 53.508381 150.20000 15.70000 0.00000 53.627540 150.20000 15.80000 0.00000 53.737887 150.20000 15.90000 0.000
000 56.259629 150.20000 18.00000 0.00000 56.371827 150.20000 18.10000 0.00000 56.489745 150.20000 18.20000 0.00000 56.603530 150.20000 18.30000 0.00000 56.710637 150.20000 18.40000 0.00000
000 4.40000 0.00000 72.479749 150.30000 4.50000 0.00000 72.368514 150.30000 4.60000 0.00000 72.259803 150.30000 4.70000 0.00000 72.129143 150.30000 4.80000 0.00000 72.007991 150.30000 4.
524832 150.30000 6.00000 0.00000 69.414398 150.30000 6.10000 0.00000 69.304111 150.30000 6.20000 0.00000 69.181651 150.30000 6.30000 0.00000 69.060808 150.30000 6.40000 0.00000 68.9311
0000 0.00000 66.442678 150.30000 9.60000 0.00000 66.312706 150.30000 9.70000 0.00000 66.191871 150.30000 9.80000 0.00000 66.081326 150.30000 9.90000 0.00000 65.970717 150.30000 10.00000
0 0.00000 63.458591 150.30000 12.10000 0.00000 63.349367 150.30000 12.20000 0.00000 63.236708 150.30000 12.30000 0.00000 63.116687 150.30000 12.40000 0.00000 63.006095 150.30000 12.50000
00 0.00000 60.577045 150.30000 14.60000 0.00000 60.466724 150.30000 14.70000 0.00000 60.356227 150.30000 14.80000 0.00000 60.245680 150.30000 14.90000 0.00000 60.135445 150.30000 15.0000
000 0.00000 57.608663 150.30000 17.10000 0.00000 57.539502 150.30000 17.20000 0.00000 57.429528 150.30000 17.30000 0.00000 57.318584 150.30000 17.40000 0.00000 57.206182 150.30000 17.500
6.964921 150.40000 3.50000 0.00000 77.896702 150.40000 3.60000 0.00000 77.206637 150.40000 3.70000 0.00000 77.326406 150.40000 3.80000 0.00000 77.447071 150.40000 3.90000 0.00000 77.578
```

Add

Pixels in x

101

File organisation

Image per file

Remove

Pixels in y

161

Spectra Location File

Browse

Converting

Convert

Input Files Image File Sample Software Scan Instrument Data Processing

Storage Type

☒ Processed

(m/z list for each spectrum)

☐ Continuous

(Single m/z list that all spectra follow)

m/z Array Data Type

64-bit float

Intensity Array Data Type

32-bit float

zlib compression



Data File Content

Add

Remove

Add attribute (MS:1000524) data file content

Attribute

(MS:1000579) MS1 spectrum

Value

Add

MS1 spectrum data file

Convert

Line Scan Direction (IMS:1000491) linescan left right

Scan Direction (IMS:1000401) top down

Scan Pattern (IMS:1000410) meandering

Scan Type (IMS:1000481) vertical line scan

Pixel Area 0.0625 Area Unit (UO:0000082) square millimeter

Scan Settings

Add

Remove

SpiderMass-MSI
scans parametersPixels area
(0.25x0.25)

Convert