

Report for PEP Section in mzTab File example_2

The PEP section of the **mzTab** file contains 2,160 quantified peptide features measured in 2 samples.

| | number of peptides |
|------------------------------|--------------------|
| quantified | 2,160 |
| identified (total) | 2,160 |
| identified (unique modified) | 2,021 |
| identified (unique stripped) | 1,926 |

Table 1: Total number of quantified and identified peptides.

| mod | specificity | number |
|-----------------|-------------|--------|
| Carbamidomethyl | C | 205 |

Table 2: Statistics of modifications.



Figure 1: Frequency plot of peptide quantifications.

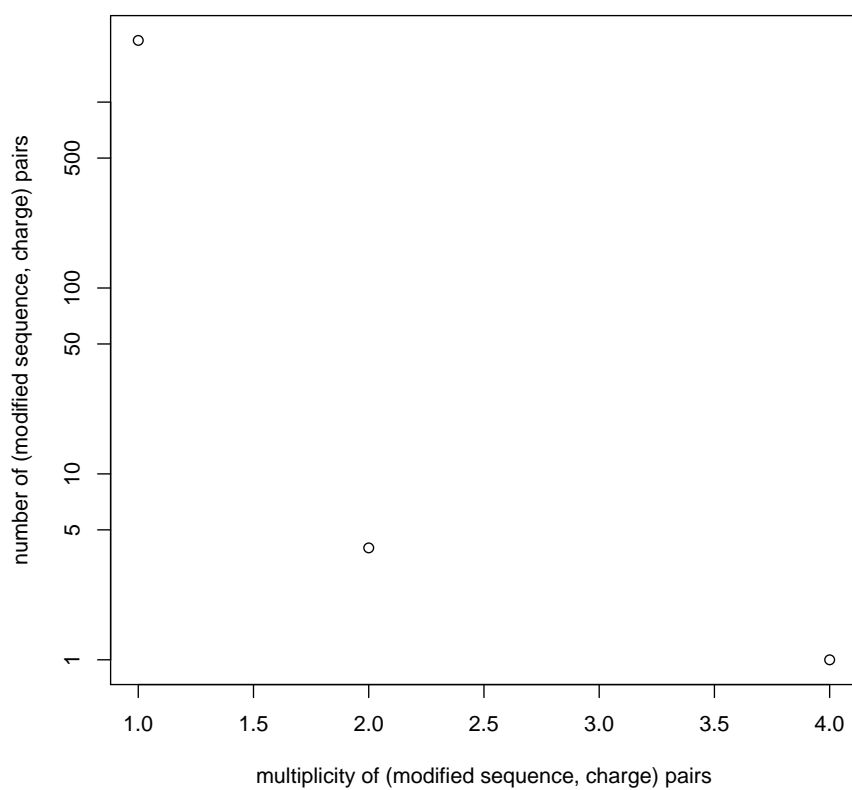
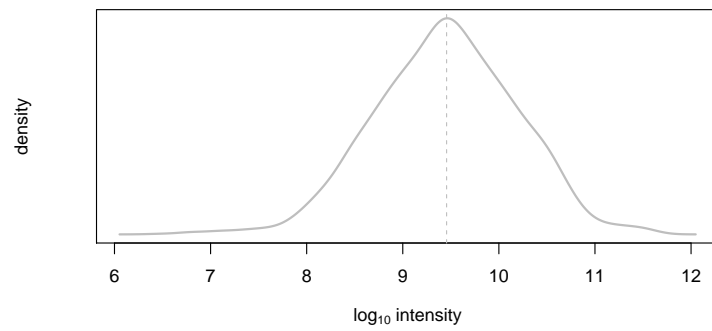
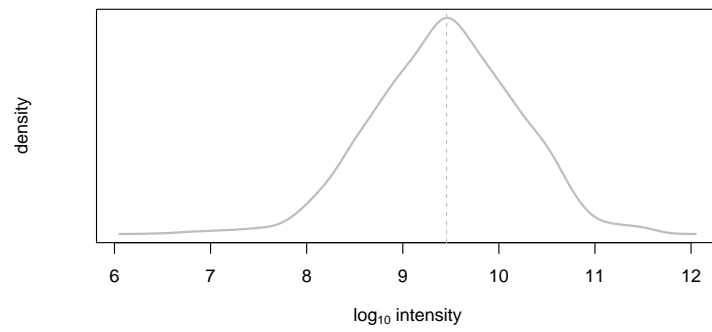


Figure 2: (modified sequence, charge) pair multiplicity vs frequency plot. Each peptide feature (characterised by a (possibly) modified peptide sequence and a charge state) should ideally occur only once in the analysis. In other words, peptides of multiplicity 1 should have a very high frequency. The plot below should show a significant spike on the left and can be used as QC of the analysis.



(a) peptide abundances 1, $\text{median}(\text{intensity}) = 2,858,004,992$



(b) peptide abundances 2, $\text{median}(\text{intensity}) = 2,858,004,992$

Figure 3: peptide abundance distributions.

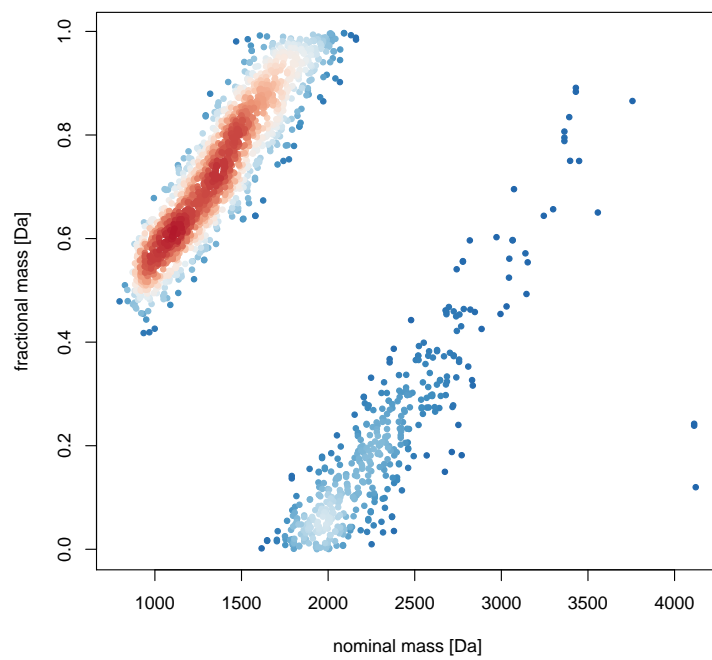


Figure 4: Kendrick nominal fractional mass plot

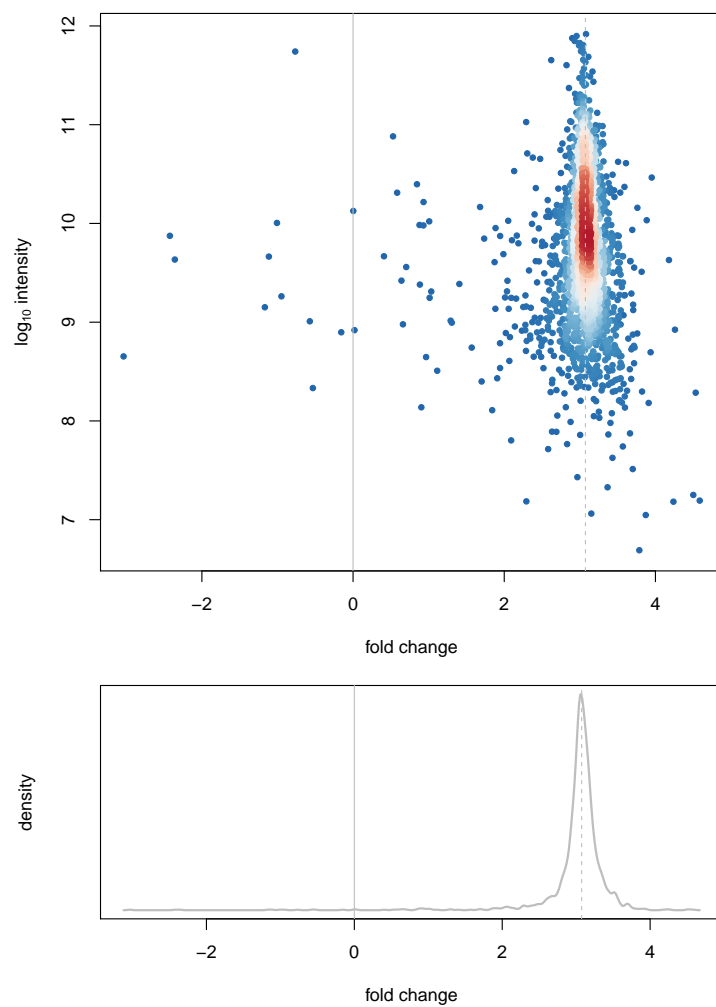


Figure 5: Fold changes of peptide abundances 1 and 2.
 $\text{median}(\text{fc}) = 3.0739$ $\text{sd}(\text{fc}) = 0.4645$

| modified sequence | accession | charge | retention time | m/z |
|-----------------------------|-----------|--------|----------------|-----|
| no matching sequences found | | | | |

Table 3: Peptides of interest. Please note that the script requires a vector of *stripped* peptides sequences, but in the above table we list the *modified* peptide sequences.

| modified sequence | accession | charge | retention time | m/z |
|------------------------------|-----------|--------|----------------|-----|
| no matching accessions found | | | | |

Table 4: Proteins of interest.