

Report for PEP Section in mzTab File

example_4

The PEP section of the **mzTab** file contains 1,335 quantified peptide features measured in 54 samples.

	number of peptides
quantified	1,335
identified (total)	1,335
identified (unique modified)	1,221
identified (unique stripped)	1,212

Table 1: Total number of quantified and identified peptides.

modified sequence	accession	charge	retention time	m/z
SSAAPPPPPR(Label:13C(6)15N(4))	STD_01	2	1659.92	493.77
HVLTSIGEK(Label:13C(6)15N(2))	STD_03	2	2127.71	496.29
IGDYAGIK(Label:13C(6)15N(2))	STD_05	2	3096.71	422.74
TASEFDSAIAQDK(Label:13C(6)15N(2))	STD_06	2	4266.53	695.83
SAAGAFGPESLR(Label:13C(6)15N(4))	STD_07	2	4457.27	586.80
ELGQSGVDTYLQTK(Label:13C(6)15N(2))	STD_08	2	5741.14	773.90
GLILVGGYGTR(Label:13C(6)15N(4))	STD_09	2	6431.53	558.33
GILFVGSGVSGGEEGAR	P52209	2	6780.92	796.41
GILFVGSGVSGGEEGAR(Label:13C(6)15N(4))	P52209	2	6781.34	801.41
SFANQPLEVVYSK(Label:13C(6)15N(2))	STD_11	2	6787.30	745.39
ELASGLSFPVGFVK(Label:13C(6)15N(2))	STD_14	2	9083.08	680.37

Table 2: Peptides of interest. 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
INQEELASGTPPARFPK	O15117	3	4675.29	618.99

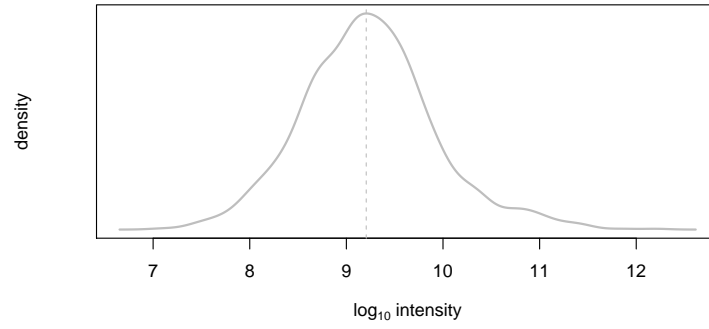
Table 3: Proteins of interest.

modifications statistics

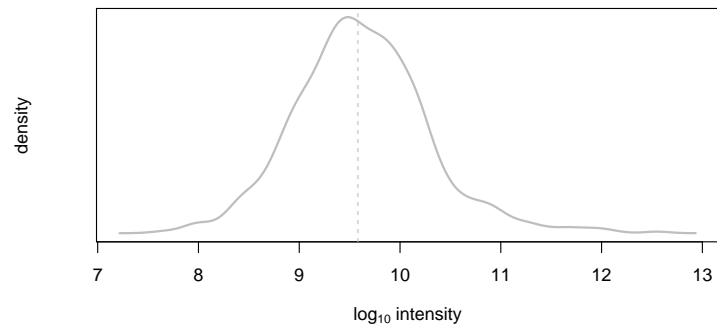
mod	specificity	number
Oxidation	M	179
Methylthio	C	150
Label:13C(6)15N(2)	K	6
Label:13C(6)15N(4)	R	4



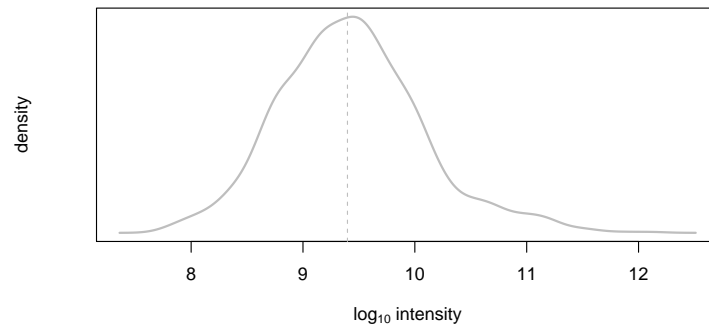
Figure 1: Frequency plot of peptide quantifications.



(a) peptide abundances 1, $\text{median}(\text{intensity}) = 1,605,469,952$



(b) peptide abundances 2, $\text{median}(\text{intensity}) = 3,819,539,968$



(c) peptide abundances 3, $\text{median}(\text{intensity}) = 2,497,959,936$

Figure 2: peptide abundance distributions.

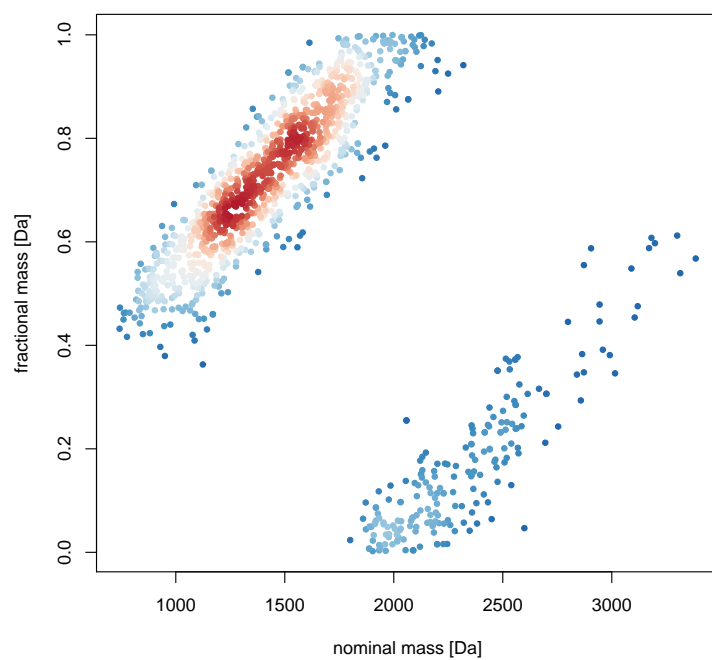


Figure 3: Kendrick nominal fractional mass plot

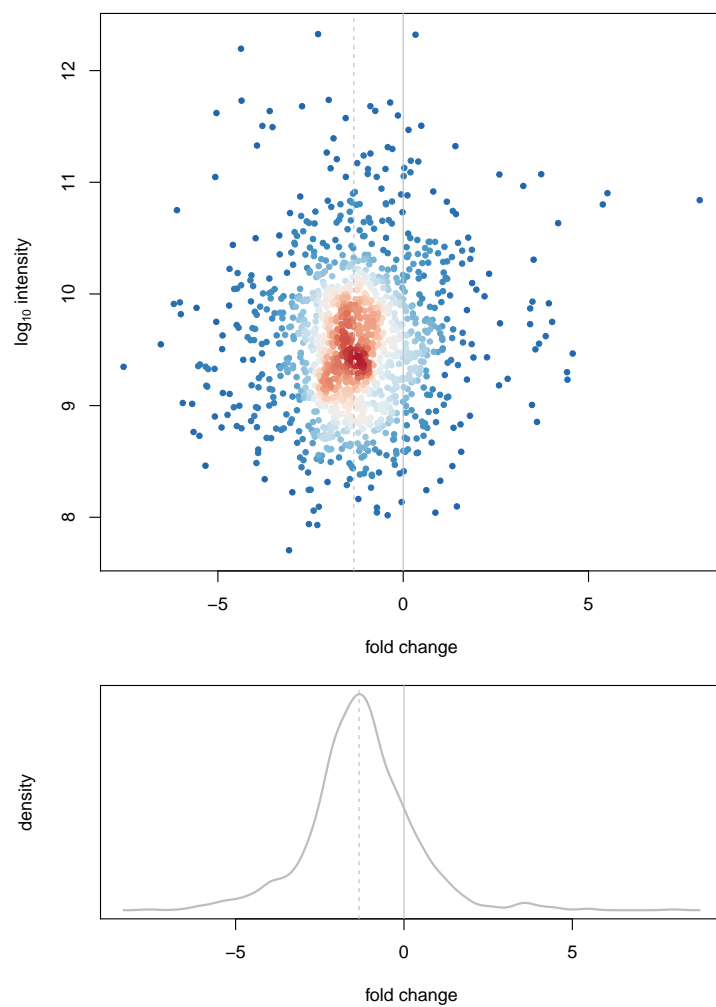


Figure 4: Fold changes of peptide abundances 1 and 2.
 $\text{median}(\text{fc}) = -1.3328$ $\text{sd}(\text{fc}) = 1.5445$

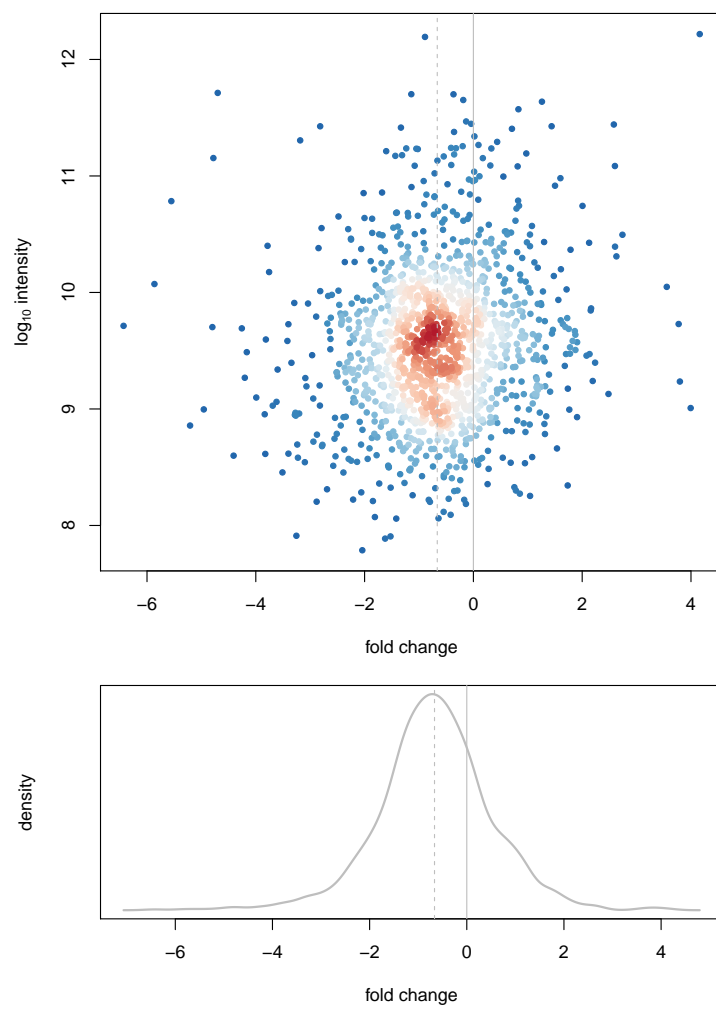


Figure 5: Fold changes of peptide abundances 1 and 3.
 $\text{median}(\text{fc}) = -0.6641$ $\text{sd}(\text{fc}) = 1.1804$

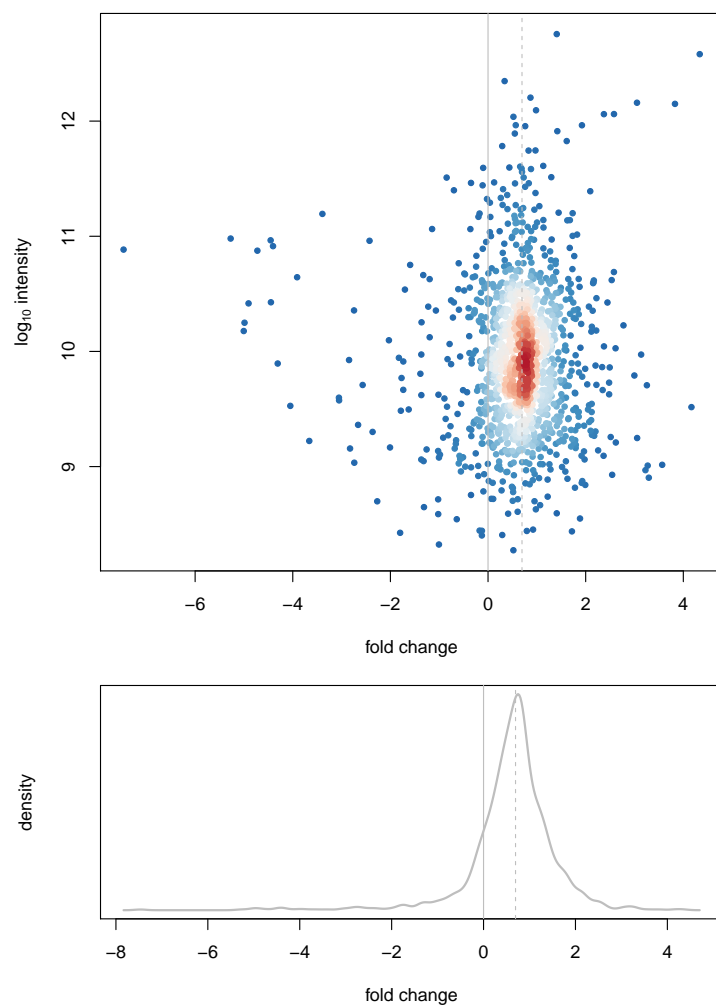


Figure 6: Fold changes of peptide abundances 2 and 3.
 $\text{median}(\text{fc}) = 0.6958$ $\text{sd}(\text{fc}) = 0.9636$

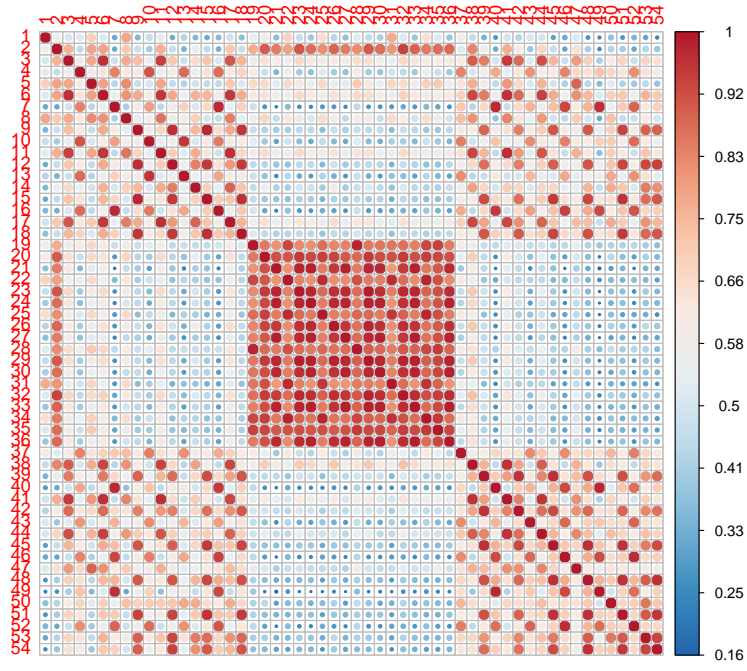


Figure 7: Correlation of all peptide abundances.

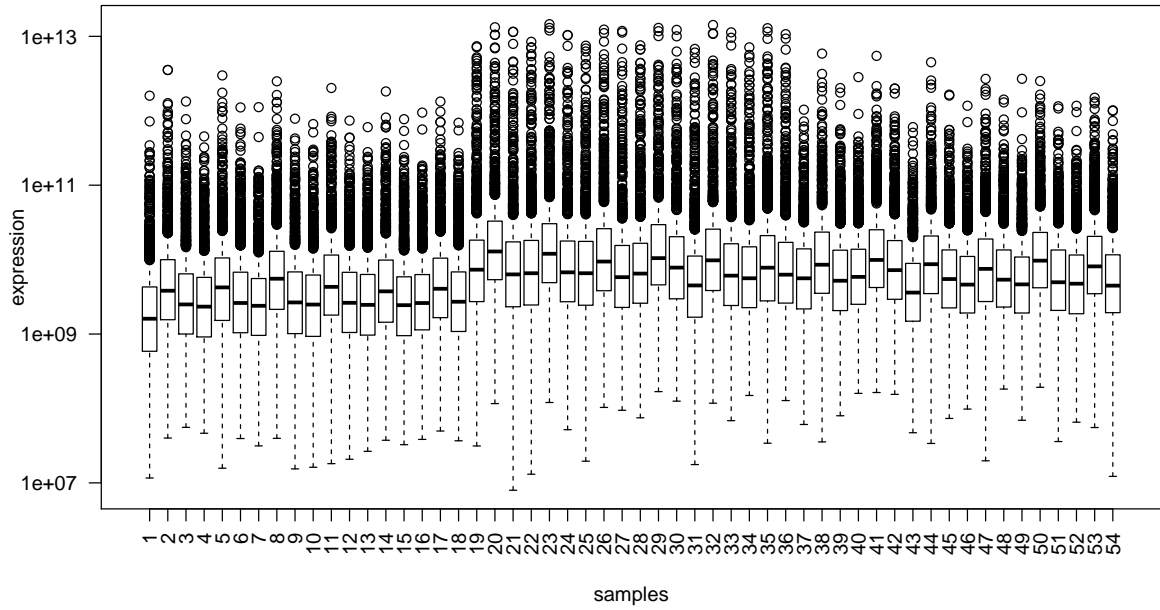


Figure 8: Boxplot of all peptide abundances.