

# Summary

The summary file contains summary information for all the raw files processed with a single MaxQuant run. The summary information consists of some MaxQuant parameters, information of the raw file contents, and statistics on the peak detection. Based on this file a quick overview can be gathered on the quality of the data in the raw file.

The last row in this file contains the summary information for each column on each of the processed files.

Name	Separator	Description
Raw File		The raw file processed.
Protease		The protease used to digest the protein sample.
Protease first search		The protease used for the first search.
Use protease first search		Marked with '+' when a different protease setup was used for the first search.
Fixed modifications		The fixed modification(s) used during the identification of peptides.
Variable modifications		The variable modification(s) used during the identification of peptides.
Variable modifications first search		The variable modification(s) used during the first search.
Use variable modifications first search		Marked with '+' when different variable modifications were used for the first search.
Multiplicity		The number of labels used.
Max. missed cleavages		The maximum allowed number of missed cleavages.
Labels0		The labels used in the labeling experiment. Allowed values for X: 0=light; 1=medium; 2=heavy label partner.
LC-MS run type		The type of LC-MS run. Usually it will be 'Standard' which refers to a conventional shotgun proteomics run with data-dependent MS/MS.
Time-dependent recalibration		When marked with '+', time-dependent recalibration was applied to improve the data quality.
MS		The number of MS spectra recorded in this raw file.
MS/MS		The number of tandem MS spectra recorded in this raw file.
MS/MS Submitted		The number of tandem MS spectra submitted for analysis.
MS/MS Submitted (SIL)		The number of tandem MS spectra submitted for analysis, where the precursor ion was detected as part of a labeling cluster.
MS/MS Submitted (ISO)		The number of tandem MS spectra submitted for analysis, where the precursor ion was detected as an isotopic pattern.
MS/MS Submitted (PEAK)		The number of tandem MS spectra submitted for analysis, where the precursor ion was detected as a single peak.
MS/MS on Polymers		The number of tandem MS spectra, where the precursor ion was a polymer.
MS/MS Identified		The total number of identified tandem MS spectra.
MS/MS Identified (SIL)		The total number of identified tandem MS spectra, where the precursor ion was detected as part of a labeling cluster.
MS/MS Identified (ISO)		The total number of identified tandem MS spectra, where the precursor ion was detected as an isotopic pattern.
MS/MS Identified (PEAK)		The total number of identified tandem MS spectra, where the precursor ion was detected as a single peak.
MS/MS Identified [%]		The percentage of identified tandem MS spectra.
MS/MS Identified (SIL) [%]		The percentage of identified tandem MS spectra, where the precursor ion was detected as part of a labeling cluster.
MS/MS Identified (ISO) [%]		The percentage of identified tandem MS spectra, where the precursor ion was detected as an isotopic pattern.
MS/MS Identified (PEAK) [%]		The percentage of identified tandem MS spectra, where the precursor ion was detected as a single peak.
Peptide Sequences Identified		The total number of unique peptide amino acid sequences identified from the recorded tandem mass spectra.
Peaks		The total number of peaks detected in the full scans.
Peaks Sequenced		The total number of peaks sequenced by tandem MS.
Peaks Sequenced [%]		The percentage of peaks sequenced by tandem MS.
Peaks Repeatedly Sequenced		The total number of peaks repeatedly sequenced (i.e. 1 or more times) by tandem MS.
Peaks Repeatedly Sequenced [%]		The percentage of peaks repeatedly sequenced (i.e. 1 or more times) by tandem MS.
Isotope Patterns		The total number of detected isotope patterns.

Isotope Patterns Sequenced		The total number of isotope patterns sequenced by tandem MS.
Isotope Patterns Sequenced (z>1)		The total number of isotope patterns sequenced by tandem MS with a charge state of 2 or more.
Isotope Patterns Sequenced [%]		The percentage of isotope patterns sequenced by tandem MS.
Isotope Patterns Sequenced (z>1) [%]		The percentage of isotope patterns sequenced by tandem MS with a charge state of 2 or more.
Isotope Patterns Repeatedly Sequenced		The total number of isotope patterns repeatedly sequenced (i.e. 1 or more times) by tandem MS.
Isotope Patterns Repeatedly Sequenced [%]		The percentage of isotope patterns repeatedly sequenced (i.e. 1 or more times) by tandem MS.
Recalibrated		When marked with '+', the masses taken from the raw file were recalibrated.
Av. Absolute Mass Deviation		The average absolute mass deviation found comparing to the identification mass.
Mass Standard Deviation		The standard deviation of the mass deviation found comparing to the identification mass.
Label free norm param		The normalization factor used to scale the intensity values in a label-free experiment.

# Evidence

The evidence file combines all the information about the identified peptides and normally is the only file required for processing the results. Additional information about the peptides, modifications, proteins, etc. can be found in the other files by unique identifier linkage.

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the evidence table, which is used to cross-link the information in this file with the information stored in the other files.
Protein Group IDs		The identifier of the protein-group this redundant peptide sequence is associated with, which can be used to look up the extended protein information in the file 'proteinGroups.txt'. As a single peptide can be linked to multiple proteins (e.g. in the case of razor-proteins), multiple id's can be stored here separated by a semicolon. As a protein can be identified by multiple peptides, the same id can be found in different rows.
Peptide ID		The identifier of the non-redundant peptide sequence.
Mod. Peptide ID		Identifier of the associated modification summary stored in the file 'modificationSpecificPeptides.txt'.
MS/MS IDs		Identifier(s) of the associated MS/MS summary(s) stored in the file 'msms.txt'.
AIF MS/MS IDs		Identifier(s) of the associated All Ion Fragmentation MS/MS summary(s) stored in the file 'aifMsms.txt'.
Oxidation (M) Site IDs		Identifier(s) of the modification summary stored in the file 'Oxidation (M)Sites.txt'.
Phospho (STY) Site IDs		Identifier(s) of the modification summary stored in the file 'Phospho (STY)Sites.txt'.
Sequence		The identified AA sequence of the peptide.
Length		The length of the sequence stored in the column "Sequence".
Modifications		Post-translational modifications contained within the identified peptide sequence.
Modified Sequence		Sequence representation including the post-translational modifications (abbreviation of the modification in brackets before the modified AA). The sequence is always surrounded by underscore characters ('_').
Oxidation (M) Probabilities		Sequence representation of the peptide including PTM positioning probabilities ([0..1], where 1 is best match) for 'Oxidation (M)'.
Phospho (STY) Probabilities		Sequence representation of the peptide including PTM positioning probabilities ([0..1], where 1 is best match) for 'Phospho (STY)'.
Oxidation (M) Score Diffs		Sequence representation for each of the possible PTM positions in each possible configuration, the difference is calculated between the identification score with the PTM added to that position and the best scoring identification where no PTM is added to that position. When this value is negative, it is unlikely that the particular modification is located at this position.
Phospho (STY) Score Diffs		Sequence representation for each of the possible PTM positions in each possible configuration, the difference is calculated between the identification score with the PTM added to that position and the best scoring identification where no PTM is added to that position. When this value is negative, it is unlikely that the particular modification is located at this position.
Acetyl (Protein N-term)		The number of occurrences of the modification 'Acetyl (Protein N-term)'.
Oxidation (M)		The number of occurrences of the modification 'Oxidation (M)'.
Phospho (STY)		The number of occurrences of the modification 'Phospho (STY)'.
Proteins		The identifiers of the proteins this particular peptide is associated with.
Leading Proteins		The identifiers of the proteins in the proteinGroups file, with this protein as best match, this particular peptide is associated with. When multiple matches are found here, the best scoring protein can be found in the 'Leading Razor Protein' column.
Leading Razor Protein		The identifier of the best scoring protein, from the proteinGroups file this, this peptide is associated to.
Gene Names		Names of genes this peptide is associated with.
Protein Names		Names of proteins this peptide is associated with.
Protein Descriptions		Descriptions of the proteins this peptide is associated with.
Type		The type of MS/MS spectrum this sequence is derived from.

Raw File		The name of the RAW-file the mass spectral data was derived from.
Experiment		
Charge		The charge-state of the precursor ion.
m/z		The recalibrated mass-over-charge value of the precursor ion.
Mass		The predicted monoisotopic mass of the identified peptide sequence.
Resolution		The resolution of precursor ion measured in Full Width at Half Maximum (FWHM).
Uncalibrated - Calibrated m/z [ppm]		The difference between the uncalibrated and recalibrated mass-over-charge value of the precursor ion measured in parts-per-million. This gives an indication of the mass drift in the original data, which was automatically corrected by MaxQuant.
Mass Error [ppm]		Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence.
Uncalibrated Mass Error [ppm]		Mass error of the uncalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence.  Note: This column can contain missing values (denoted as NaN).
Retention Time		The uncalibrated retention time in minutes (divide by 60 to go to seconds) in the elution profile of the precursor ion.
Retention Length		The total retention time of the peak (last timepoint – first timepoint).
Calibrated Retention Time		The recalibrated retention time in minutes (divide by 60 to go to seconds) in the elution profile of the precursor ion.
Retention Time Calibration		The difference in minutes (divide by 60 to go to seconds) between the uncalibrated and recalibrated retention time. This gives an indication of the retention time drift in the original data, which was automatically corrected by MaxQuant.  Note: This column can contain missing values (NaN).
Match Time Difference		When the option 'match-between-runs' is used in MaxQuant, this value indicates the time difference between the feature from the raw file it was taken from and the feature from the raw file it was matched to.
PIF		Short for Parent Ion Fraction; indicates the fraction the target peak makes up of the total intensity in the inclusion window.
Fraction of total spectrum		The percentage the parent ion intensity makes up of the total intensity of the whole spectrum.
Base peak fraction		The percentage the parent ion intensity in comparison to the highest peak in the MS spectrum.
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is better.
MS/MS Count		The number of sequencing events for this sequence, which matches the number of identifiers stored in the column 'MS/MS IDs'. This number is independent of the times the AA sequence has been identified through (other) modifications (e.g. heavy label, oxidation, etc.), about which information can be found in the columns 'Labeling State' and 'Modification'.
MS/MS Scan Number		The RAW-file derived scan number of the MS/MS with the highest peptide identification score (the highest score is stored in the column 'Score').
Score		Andromeda score for the best associated MS/MS spectrum.
Delta score		Score difference to the second best identified peptide.
Combinatorics		Number of possible distributions of the modifications over the peptide sequence.
Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Reverse		When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.
Contaminant		When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.

# Peptides

The peptides-table contains information on the identified peptides in the processed raw-files.

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the peptides table, which is used to cross-link the information in this table with the information stored in the other tables.
Protein Group IDs		The identifiers of the protein groups this peptide was linked to, referenced against the proteinGroups table.
Mod. Peptide IDs		Identifier(s) for peptide sequence(s), associated with the peptide, referenced against the corresponding modified peptides table.
Evidence IDs		Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidences table.
MS/MS IDs		The identifiers of the MS/MS scans identifying this peptide, referenced against the msms table.
Best MS/MS		The identifier of the best (in terms of quality) MS/MS scan identifying this peptide, referenced against the msms table.
Oxidation (M) Site IDs		Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.
Phospho (STY) Site IDs		Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.
Sequence		The identified AA sequence of the peptide.
A Count		The number of instances of the 'A' amino acid contained within the sequence.
R Count		The number of instances of the 'R' amino acid contained within the sequence.
N Count		The number of instances of the 'N' amino acid contained within the sequence.
D Count		The number of instances of the 'D' amino acid contained within the sequence.
C Count		The number of instances of the 'C' amino acid contained within the sequence.
Q Count		The number of instances of the 'Q' amino acid contained within the sequence.
E Count		The number of instances of the 'E' amino acid contained within the sequence.
G Count		The number of instances of the 'G' amino acid contained within the sequence.
H Count		The number of instances of the 'H' amino acid contained within the sequence.
I Count		The number of instances of the 'I' amino acid contained within the sequence.
L Count		The number of instances of the 'L' amino acid contained within the sequence.
K Count		The number of instances of the 'K' amino acid contained within the sequence.
M Count		The number of instances of the 'M' amino acid contained within the sequence.
F Count		The number of instances of the 'F' amino acid contained within the sequence.
P Count		The number of instances of the 'P' amino acid contained within the sequence.
S Count		The number of instances of the 'S' amino acid contained within the sequence.
T Count		The number of instances of the 'T' amino acid contained within the sequence.
W Count		The number of instances of the 'W' amino acid contained within the sequence.
Y Count		The number of instances of the 'Y' amino acid contained within the sequence.
V Count		The number of instances of the 'V' amino acid contained within the sequence.
U Count		The number of instances of the 'U' amino acid contained within the sequence.
Length		The length of the sequence stored in the column "Sequence".
Missed Cleavages		Number of missed enzymatic cleavages.
Mass		Monoisotopic mass of the peptide.
Proteins		Identifiers of proteins this peptide is associated with.

Leading Razor Protein		Identifiers of the best scoring protein this peptide is associated with.
Gene Names		Names of genes this peptide is associated with.
Protein Names		Names of proteins this peptide is associated with.
Unique (Groups)		When marked with '+', this particular peptide is unique to a single protein group in the proteinGroups file.
Unique (Proteins)		When marked with '+', this particular peptide is unique to a single protein sequence in the fasta file(s).
Charges		All charge states that have been observed.
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is better.
Score		Andromeda score for the best associated MS/MS spectrum.
Experiment MAPK1_E322K		
Experiment MAPK1_WT		
Unique Experiment MAPK1_E322K		
Unique Experiment MAPK1_WT		
Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Intensity MAPK1_E322K		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Intensity MAPK1_WT		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Reverse		When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.
Contaminant		When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.

# Modification-specific peptides

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the peptides table, which is used to cross-link the information in this table with the information stored in the other tables.
Protein Group IDs		The identifiers of the protein groups this peptide was linked to, referenced against the proteinGroups table.
Peptide ID		Identifier of the associated peptide sequence summary, which can be found in the file 'peptides.txt'.
Evidence IDs		Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidences table.
MS/MS IDs		The identifiers of the MS/MS scans identifying this peptide, referenced against the msms table.
Best MS/MS		The identifier of the best (in terms of quality) MS/MS scan identifying this peptide, referenced against the msms table.
Oxidation (M) Site IDs		Identifier(s) for site(s) associated with this peptide, which show(s) evidence of the modification, referenced against the appropriate modification site file.
Phospho (STY) Site IDs		Identifier(s) for site(s) associated with this peptide, which show(s) evidence of the modification, referenced against the appropriate modification site file.
Sequence		The identified AA sequence of the peptide.
Modifications		Post-translational modifications contained within the sequence. When no modifications exist, this is set to 'unmodified'.  Note: This column only set when this MS/MS spectrum has been identified.
Mass		Charge corrected mass of the precursor ion.
Mass Fractional Part		The values after the radix point (ie value - floor(value)).
Protein Groups		IDs of the protein groups to which this peptide belongs.
Proteins		The identifiers of the proteins this particular peptide is associated with.
Gene Names		Names of genes this peptide is associated with.
Protein Names		Names of proteins this peptide is associated with.
Unique (Groups)		When marked with '+', this particular peptide is unique to a single protein group in the proteinGroups file.
Unique (Proteins)		When marked with '+', this particular peptide is unique to a single protein sequence in the fasta file(s).
Acetyl (Protein N-term)		Number of Acetyl (Protein N-term) on this peptide.
Oxidation (M)		Number of Oxidation (M) on this peptide.
Phospho (STY)		Number of Phospho (STY) on this peptide.
Experiment MAPK1_E322K		
Experiment MAPK1_WT		
Unique Experiment MAPK1_E322K		
Unique Experiment MAPK1_WT		
Retention Time		Retention time averaged over the evidence entries belonging to this modification-specific peptide.
Calibrated Retention Time		Calibrated retention time averaged over the evidence entries belonging to this modification-specific peptide. Obviously this only makes sense if retention time recalibration has been performed which is the case when matching between run is selected.
Charges		All charge states that have been observed.
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
MS/MS Count		The number of sequencing events for this sequence, which matches the number of identifiers stored in the column 'MS/MS IDs'. This number is independent of the times the AA sequence has been identified through (other) modifications (e.g. heavy SILAC label, oxidation, etc.), about which information can be found in the columns 'SILAC State' and 'Modification'.
MS/MS Scan Number		The RAW-file derived scan number of the MS/MS with the highest peptide identification score (the highest score is stored in the column 'Score').
Raw File		The name of the RAW-file the mass spectral data was derived from.
Score		Andromeda score for the best associated MS/MS spectrum.
Delta score		Score difference to the second best identified peptide.

Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Intensity MAPK1_E322K		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Intensity MAPK1_WT		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Reverse		When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.
Contaminant		When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.



# Oxidation (M)Sites

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the site table, which is used to cross-link the information in this file with the information stored in the other files.
Protein Group IDs		The identifier of the protein-group this peptide sequence is associated with, which can be used to look up the extended protein information in the file 'proteinGroups.txt'. As a single peptide can be linked to multiple proteins (e.g. in the case of razor-proteins), multiple id's can be stored here separated by a semicolon. As a protein can be identified by multiple peptides, the same id can be found in different rows.
Positions		The positions of the modifications in the peptide amino acid sequence.
Position		The position of the peptide in the protein amino acid sequence.
Peptide IDs		Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'peptides.txt'.
Mod. Peptide IDs		Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'modificationSpecificPeptides.txt'.
Evidence IDs		Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidences table.
MS/MS IDs		The identifiers of the MS/MS scans identifying this peptide, referenced against the msms table.
Best Localization Evidence ID		
Best Localization MS/MS ID		
Best Localization Raw File		
Best Localization Scan Number		
Best Identification Evidence ID		
Best Identification MS/MS ID		
Best Identification Raw File		
Best Identification Scan Number		
Proteins		Identifiers of proteins this peptide is associated with.
Leading Proteins		
Protein		Identifier of the protein this peptide is associated with.
Protein Names		Names of proteins this peptide is associated with.
Gene Names		Names of genes this peptide is associated with.
Protein Descriptions		Descriptions of proteins this peptide is associated with.
Localization Prob		
Score Diff		
Localization Prob MAPK1_E322K		
Score Diff MAPK1_E322K		
PEP MAPK1_E322K		
Score MAPK1_E322K		
Localization Prob MAPK1_WT		
Score Diff MAPK1_WT		
PEP MAPK1_WT		
Score MAPK1_WT		
Diagnostic peak		
Number of Oxidation (M)		
Amino Acid		
Sequence Window		
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
Score		The Andromeda score of the identification (higher is better).
Modified Sequence		Sequence representation of the peptide including location(s) of modified AAs.
Oxidation (M) Probabilities		
Oxidation (M) Score Diffs		
Position in peptide		
Charge		Charge state of the precursor ion.
m/z		Recalibrated m/z of the precursor ion.
Mass Error [ppm]		Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence.

Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Ratio mod/base		
Intensity MAPK1_E322K		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Ratio mod/base MAPK1_E322K		
Intensity MAPK1_WT		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Ratio mod/base MAPK1_WT		
Reverse		When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the protein sequence database. These should be removed for further data analysis.
Contaminant		When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.

# Phospho (STY)Sites

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the site table, which is used to cross-link the information in this file with the information stored in the other files.
Protein Group IDs		The identifier of the protein-group this peptide sequence is associated with, which can be used to look up the extended protein information in the file 'proteinGroups.txt'. As a single peptide can be linked to multiple proteins (e.g. in the case of razor-proteins), multiple id's can be stored here separated by a semicolon. As a protein can be identified by multiple peptides, the same id can be found in different rows.
Positions		The positions of the modifications in the peptide amino acid sequence.
Position		The position of the peptide in the protein amino acid sequence.
Peptide IDs		Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'peptides.txt'.
Mod. Peptide IDs		Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'modificationSpecificPeptides.txt'.
Evidence IDs		Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidences table.
MS/MS IDs		The identifiers of the MS/MS scans identifying this peptide, referenced against the msms table.
Best Localization Evidence ID		
Best Localization MS/MS ID		
Best Localization Raw File		
Best Localization Scan Number		
Best Identification Evidence ID		
Best Identification MS/MS ID		
Best Identification Raw File		
Best Identification Scan Number		
Proteins		Identifiers of proteins this peptide is associated with.
Leading Proteins		
Protein		Identifier of the protein this peptide is associated with.
Protein Names		Names of proteins this peptide is associated with.
Gene Names		Names of genes this peptide is associated with.
Protein Descriptions		Descriptions of proteins this peptide is associated with.
Localization Prob		
Score Diff		
Localization Prob MAPK1_E322K		
Score Diff MAPK1_E322K		
PEP MAPK1_E322K		
Score MAPK1_E322K		
Localization Prob MAPK1_WT		
Score Diff MAPK1_WT		
PEP MAPK1_WT		
Score MAPK1_WT		
Diagnostic peak		
Number of Phospho (STY)		
Amino Acid		
Sequence Window		
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
Score		The Andromeda score of the identification (higher is better).
Modified Sequence		Sequence representation of the peptide including location(s) of modified AAs.
Phospho (STY) Probabilities		
Phospho (STY) Score Diffs		
Position in peptide		
Charge		Charge state of the precursor ion.
m/z		Recalibrated m/z of the precursor ion.
Mass Error [ppm]		Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence.

Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Ratio mod/base		
Intensity MAPK1_E322K		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Ratio mod/base MAPK1_E322K		
Intensity MAPK1_WT		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Ratio mod/base MAPK1_WT		
Reverse		When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the protein sequence database. These should be removed for further data analysis.
Contaminant		When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.

# Protein groups

The Protein Groups table contains information on the identified proteins in the processed raw-files. Each single row contains the group of proteins that could be reconstructed from a set of peptides.

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the proteinGroups table, which is used to cross-link the information in this file with the information stored in the other files.
Peptide IDs		Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'peptides.txt'.
Mod. Peptide IDs		
Evidence IDs		
MS/MS IDs		
Oxidation (M) Site IDs		Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.
Phospho (STY) Site IDs		Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.
Oxidation (M) Site Positions		Positions of the sites in the leading protein of this group.
Phospho (STY) Site Positions		Positions of the sites in the leading protein of this group.
Protein IDs		Identifier(s) of protein(s) contained in the protein group. They are sorted by number of identified peptides in descending order.
Majority Protein IDs		These are the IDs of those proteins that have at least half of the peptides that the leading protein has.
Peptide Counts (all)		Number of peptides associated with the protein group.
Peptide Counts (razor+unique)		Number of unique and razor peptides associated with the protein group.
Peptide Counts (unique)		Number of unique peptides associated with the protein group.
Protein Names		Name(s) of protein(s) contained within the group.
Gene Names		Name(s) of the gene(s) associated to the protein(s) contained within the group.
Protein Descriptions		Description(s) of protein(s) contained within the group.
Proteins		Number of proteins contained within the group. This corresponds to the number of entries in the column 'Protein IDs'.
Peptides		The total number of peptide sequences associated with the protein group (i.e. for all the proteins in the group).
Razor + unique Peptides		The total number of razor + unique peptides associated with the protein group (i.e. these peptides are shared with another protein group).
Unique Peptides		The total number of unique peptides associated with the protein group (i.e. these peptides are not shared with another protein group).
Peptides MAPK1_E322K		
Peptides MAPK1_WT		
Razor + unique Peptides MAPK1_E322K		
Razor + unique Peptides MAPK1_WT		
Unique Peptides MAPK1_E322K		
Unique Peptides MAPK1_WT		
Sequence Coverage [%]		Percentage of the sequence that is covered by the identified peptides of the best protein sequence contained within the group.
Unique + Razor Sequence Coverage [%]		Percentage of the sequence that is covered by the identified unique and razor peptides of the best protein sequence contained within the group.
Unique Sequence Coverage [%]		Percentage of the sequence that is covered by the identified unique peptides of the best protein sequence contained within the group.
Mol. Weight [kDa]		Molecular weight of the best protein sequence contained within the protein group.
Sequence Length		The total length of the best protein sequence contained within the group.
Experiment MAPK1_E322K		
Experiment MAPK1_WT		
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.

Sequence Coverage MAPK1_E322K [%]		Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence Coverage MAPK1_WT [%]		Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Intensity MAPK1_E322K		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Intensity MAPK1_WT		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
iBAQ		
iBAQ MAPK1_E322K		
iBAQ MAPK1_WT		
LFQ Intensity MAPK1_E322K		
LFQ Intensity MAPK1_WT		
MS/MS Count MAPK1_E322K		
MS/MS Count MAPK1_WT		
Only identified by site		When marked with '+', this particular protein group was identified only by a modification site.
Reverse		When marked with '+', this particular protein group was found to be a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.
Contaminant		When marked with '+', this particular protein group was found to be a commonly occurring contaminant. These should be removed for further data analysis.

# All peptides

Name	Separator	Description
Raw File		Name of the raw file the spectral data was extracted from, which led to the identification of this peptide.
Type		The type of detection for the peptide.
Charge		The charge state of the peptide.
m/z		The mass-over-charge of the peptide.
Mass		The actual mass of the peptide ((m/z-proton) * charge).
Resolution		The resolution of the peak detected for the peptide measured in Full Width at Half Maximum (FWHM).
Npoints		The number of data points (peak centroids) collected describing the peak detected for the peptide.
PIF		Short for Parent Ion Fraction; indicates the fraction the target peak makes up of the total intensity in the inclusion window.
Mass Fractional Part		The values after the radix point (ie value - floor(value)).
Mass deficit		Empirically derived deviation measure to the next nearest integer scaled to center around 0. Can be used to visually detect contaminants in a plot setting Mass against this value.  $m*a+b - \text{round}(m*a+b)$ m: the peptide mass a: 0.999555 b: -0.10
Mass Precision [ppm]		The precision of the mass detection of the peptide in parts-per-million.
Retention Time		The retention time of the peak detected for the peptide measured in minutes.
Retention Length		The total retention time width of the peak (last timepoint – first timepoint).
Retention Length (FWHM)		The full width at half maximum value retention time width of the peak.
Min Scan Number		The first scan-number at which the peak was encountered.
Max Scan Number		The last scan-number at which the peak was encountered.
Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Intensities		The intensity values of the isotopes.
MS/MS Count		The number of MS/MS spectra recorded for the peptide.
MSMS Scan Numbers		The scan numbers where the MS/MS spectra were recorded.
MSMS Precursors		The precursors where the MS/MS spectra were recorded.
MSMS Isotope Indices		Indices of the isotopic peaks that the MS/MS spectra reside on. A value of 0 corresponds to the monoisotopic peak.

# MS scans

The msScans table contains information about the full scans, which can be used to verify data quality and generated useful statistics about the interaction between the samples and LC.

Name	Separator	Description
Raw File		The name of the RAW-file the mass spectral data was derived from.
Scan Number		The scan number (defined in the raw-file) at which the full scan was made.
Retention Time		The retention time at which the full scan was made.
Cycle Time		The total time (full scan including the tandem MS scans) this full scan has taken up.
Dead Time		Elapsed time minus actual cycle time. Negative values indicate parallel operation while positive values usually mean that time is lost somewhere.
Ion Injection Time		The total injection time that was required to capture the specified amount of ions. This value is limited by a maximum, which can be used to determine whether the time has maxed out (indicative of a bad acquisition).
Conversion Parameter I		Taken from the Thermo RAW file.
Conversion Parameter A		Taken from the Thermo RAW file.
Conversion Parameter B		Taken from the Thermo RAW file.
Conversion Parameter C		Taken from the Thermo RAW file.
Conversion Parameter D		Taken from the Thermo RAW file.
Conversion Parameter E		Taken from the Thermo RAW file.
Total Ion Current		The total intensity acquired in the full scan.
Elapsed Time		The sum of the 'elapsed times' of this MS can as well as the succeeding MS/MS scans in this cycle. The elapsed time are taken from the raw file scan headers.
MS/MS Count		The number of tandem MS scans that were made based on this full scan (e.g. a top 10 method selects the top 10 most intense ions in the scan and fragments those).
Mass Calibration		The applied mass correction in Th to the full scan.
Experiment		
Peak length		The average time between the start and the end of the peaks detected in the full scan.
Isotope pattern length		The average time between the start and the end of the isotope patterns detected in the full scan.
SILAC pair length		The average time between the start and the end of the isotope patterns of the SILAC pairs detected in the full scan.
Peaks / s		The average number of peaks detected per second of chromatography.
Single peaks / s		The average number of single peaks detected per second of chromatography.
Isotope patterns / s		The average number of isotope patterns detected per second of chromatography.
Single isotope patterns / s		The average number of single isotope patterns detected per of second chromatography.
SILAC pairs / s		The average number of SILAC pairs detected per of second chromatography.
Identified SILAC pairs / s		The percentage of SILAC pairs actually identified.
SILAC identification rate [%]		The percentage of the detected SILAC pairs that were identified.
MS/MS / s		The average number of MS/MS events per second of chromatography.
Identified MS/MS / s		The average number of identified MS/MS events per second of chromatography.
MS/MS Identification rate [%]		The percentage of tandem MS scans that were identified.
Intens Comp Factor		Taken from the Thermo RAW file.
EM Intens Comp		Taken from the Thermo RAW file.
RawOvFtT		Taken from the Thermo RAW file.



# MZ range

Name	Separator	Description
Raw File		The name of the RAW-file the mass spectral data was derived from.
m/z		The mass-over-charge value.
Peaks / Da		The average number of peaks detected per Dalton.
Single peaks / Da		The average number of single peaks detected per Dalton.
Isotope patterns / Da		The average number of isotope patterns detected per Dalton.
Single isotope patterns / Da		The average number of single isotope patterns detected per Dalton.
SILAC pairs / Da		The average number of SILAC pairs detected per Dalton.
Identified SILAC pairs / Da		The percentage of SILAC pairs actually identified.
SILAC identification rate [%]		The percentage of the detected SILAC pairs that were identified.
MS/MS / Da		The average number of MS/MS events per Dalton.
Identified MS/MS / Da		The average number of identified MS/MS events per Dalton.
Identification rate [%]		The percentage of tandem MS scans that were identified.

# MS/MS scans

Name	Separator	Description
Raw File		Name of the RAW file the spectral MS/MS data was extracted from.
Precursor count		The number of precursors.
Scan Number		RAW file derived scan number for the MS/MS spectrum.
Precursor		The index of the precursor taken for the MS/MS spectrum.
Retention Time		Time point along the elution profile at which the MS/MS data was recorded.
Ion Injection Time		The ion inject time for the MS/MS scan. This can be used to determine if this time equals to the maximum ion inject time, general indicative of a lower quality spectrum.
Total Ion Current		The total ion current of the MS/MS scan. This value is calculated by summing all the intensity values found in the mass spectral data, which is different from the Xcalibur reported TIC (Xcalibur TIC is 25% of the value reported here).
Basepeak Intensity		The intensity of the most intense ion in the spectrum.
Elapsed Time		The time the MS/MS scan took to complete.
Identified		When marked with '+' this particular MS/MS scan was identified as a peptide; when marked with '-' no identification was made.
MS/MS IDs		Unique identifier linking this identification to the MS/MS scans.
Sequence		The identified AA sequence of the peptide.
Length		The length of the sequence stored in the column "Sequence".
Filtered Peaks		Number of peaks after the 'top X per 100 Da' filtering.
m/z		Recalibrated m/z of the precursor ion.
Mass		Charge corrected mass of the precursor ion.
Charge		Charge state of the precursor ion.
Type		The type of precursor ion as identified by MaxQuant.
Fragmentation		The type of fragmentation used to create the MS/MS spectrum.
Mass analyzer		The mass analyzer used to record the MS/MS spectrum.
Parent intensity fraction		The percentage the parent ion intensity makes up of the total intensity in the selection window.
Fraction of total spectrum		The percentage the parent ion intensity makes up of the total intensity of the whole spectrum.
Base peak fraction		The percentage the parent ion intensity in comparison to the highest peak in the MS spectrum.
Precursor Full ScanNumber		The full scan number where the precursor ion was selected for fragmentation.
Precursor Intensity		The intensity of the precursor ion at the scan number it was selected.
Precursor Apex Fraction		The fraction the intensity of the precursor ion makes up of the peak (apex) intensity.
Precursor Apex Offset		How many fullscans the precursor ion is offset from the peak (apex) position.
Scan event number		This number indicates which MS/MS scan this one is in the consecutive order of the MS/MS scans that are acquired after an MS scan.
Modifications		Post-translational modifications contained within the sequence. When no modifications exist, this is set to 'unmodified'.  Note: This column only set when this MS/MS spectrum has been identified.
Modified Sequence		Sequence representation of the peptide including location(s) of modified AAs.  Note: This column only set when this MS/MS spectrum has been identified.
Proteins		Identifiers of proteins this peptide is associated with.  Note: This column only set when this MS/MS spectrum has been identified.
Score		The score of the identification (higher is better).  Note: This column only set when this MS/MS spectrum has been identified.
Experiment		
Intens Comp Factor		Taken from the Thermo RAW file.
EM Intens Comp		Taken from the Thermo RAW file.
RawOvFtT		Taken from the Thermo RAW file.

# MS/MS

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the msms table, which is used to cross-link the information in this file with the information stored in the other files.
Protein Group IDs		The identifier of the protein-group this redundant peptide sequence is associated with, which can be used to look up the extended protein information in the file 'proteinGroups.txt'. As a single peptide can be linked to multiple proteins (e.g. in the case of razor-proteins), multiple id's can be stored here separated by a semicolon. As a protein can be identified by multiple peptides, the same id can be found in different rows.
Peptide ID		The identifier of the non-redundant peptide sequence.
Mod. Peptide ID		Identifier of the associated modification summary stored in the file 'modificationSpecificPeptides.txt'.
Evidence ID		Identifier of the associated evidence stored in the file 'evidence.txt'.
Oxidation (M) Site IDs		Identifier of the oxidation summary stored in the file 'Oxidation (M)Sites.txt'.
Phospho (STY) Site IDs		Identifier of the oxidation summary stored in the file 'Phospho (STY)Sites.txt'.
Raw File		The name of the RAW-file the mass spectral data was derived from.
Scan Type		The Scan Type can be Ms2 or Msx.
Scan Number		The RAW-file derived scan number of the MS/MS spectrum.
Precursor		The index of the precursor taken for the MS/MS spectrum.
Sequence		The identified AA sequence of the peptide.
Length		The length of the sequence stored in the column "Sequence".
Missed Cleavages		Number of missed enzymatic cleavages.
Modifications		Post-translational modifications contained within the identified peptide sequence.
Modified Sequence		Sequence representation including the post-translational modifications (abbreviation of the modification in brackets before the modified AA). The sequence is always surrounded by underscore characters ('_').
Oxidation (M) Probabilities		Sequence representation of the peptide including PTM positioning probabilities ([0..1], where 1 is best match) for 'Oxidation (M)'.
Phospho (STY) Probabilities		Sequence representation of the peptide including PTM positioning probabilities ([0..1], where 1 is best match) for 'Phospho (STY)'.
Oxidation (M) Score Diffs		
Phospho (STY) Score Diffs		
Acetyl (Protein N-term)		
Oxidation (M)		
Phospho (STY)		
Proteins		The IPI identifiers of the proteins the identified peptide is associated with.
Gene Names		Names of proteins the identified peptide is associated with.
Protein Names		Descriptions of the proteins the identified peptide is associated with.
Charge		The charge-state of the precursor ion.
Fragmentation		The type of fragmentation used to create the MS/MS spectrum.
Mass analyzer		The mass analyzer used to record the MS/MS spectrum.
Type		The type of precursor ion as identified by MaxQuant.
Scan event number		
Isotope Index		
m/z		The mass-over-charge of the precursor ion.
Mass		The charge corrected mass of the precursor ion.
Mass Error [ppm]		Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence.
Simple Mass Error [ppm]		
Retention Time		The uncalibrated retention time in minutes (divide by 60 to go to seconds) in the elution profile of the precursor ion.
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is better.
Score		Andromeda score for the best associated MS/MS spectrum.

Delta score		Score difference to the second best identified peptide.
Combinatorics		Number of possible distributions of the modifications over the peptide sequence.
PIF		Short for Parent Ion Fraction; indicates the fraction the target peak makes up of the total intensity in the inclusion window.
Fraction of total spectrum		The percentage the parent ion intensity makes up of the total intensity of the whole spectrum.
Base peak fraction		The percentage the parent ion intensity in comparison to the highest peak in the MS spectrum.
Precursor Full ScanNumber		The full scan number where the precursor ion was selected for fragmentation.
Precursor Intensity		The intensity of the precursor ion at the scan number it was selected.
Precursor Apex Fraction		The fraction the intensity of the precursor ion makes up of the peak (apex) intensity.
Precursor Apex Offset		How many full scans the precursor ion is offset from the peak (apex) position.
Diagnostic peak Phospho (STY) Y		
Matches		The species of the peaks in the fragmentation spectrum after TopN filtering.
Intensities		The intensities of the peaks in the fragmentation spectrum after TopN filtering.
Mass Deviations [Da]		The mass deviation of each peak in the fragmentation spectrum in absolute mass units.
Mass Deviations [ppm]		The mass deviation of each peak in the fragmentation spectrum in parts per million.
Masses		The masses-over-charge of the peaks in the fragmentation spectrum.
Number of Matches		The number of peaks matching to the predicted fragmentation spectrum.
Intensity coverage		The fraction of intensity in the MS/MS spectrum that is annotated.
Peak coverage		The fraction of peaks in the MS/MS spectrum that are annotated.
Neutral loss level		How many neutral losses were applied to each fragment in the Andromeda scoring.
Reverse		When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.

# AIF MS/MS

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the AIF MS/MS table, which is used to cross-link the information in this file with the information stored in the other files.
Protein Group IDs		The identifier of the protein-group this redundant peptide sequence is associated with, which can be used to look up the extended protein information in the file 'proteinGroups.txt'. As a single peptide can be linked to multiple proteins (e.g. in the case of razor-proteins), multiple id's can be stored here separated by a semicolon. As a protein can be identified by multiple peptides, the same id can be found in different rows.
Peptide ID		The identifier of the non-redundant peptide sequence.
Mod. Peptide ID		Identifier of the associated modification summary stored in the file 'modificationSpecificPeptides.txt'.
Evidence ID		Identifier for analyzed peptide evidence associated with the protein group referenced against the evidences table.
Oxidation (M) Site IDs		
Phospho (STY) Site IDs		
Raw File		Name of the RAW file the spectral data was extracted from, which led to the identification of this peptide.
Sequence		The identified AA sequence of the peptide.
Length		The length of the sequence stored in the column "Sequence".
Missed Cleavages		Number of missed enzymatic cleavages.
Modifications		Post-translational modifications contained within the sequence. When no modifications exist, this is set to 'unmodified'. Note: This column only set when this MS/MS spectrum has been identified.
Modified Sequence		Sequence representation of the peptide including location(s) of modified AAs. Note: This column only set when this MS/MS spectrum has been identified.
Oxidation (M) Probabilities		
Phospho (STY) Probabilities		
Oxidation (M) Score Diffs		
Phospho (STY) Score Diffs		
Acetyl (Protein N-term)		
Oxidation (M)		
Phospho (STY)		
Proteins		The IPI identifiers of the proteins the identified peptide is associated with.
Charge		The charge of the precursor ion.
m/z		The mass-over-charge of the precursor ion.
Mass		The charge corrected mass of the precursor ion.
Retention Time		The uncalibrated retention time in minutes (divide by 60 to go to seconds) in the elution profile of the precursor ion.
Precursor intensity		The intensity of the precursor ion.
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
Score		Andromeda identification score for the MS/MS spectrum.
Delta score		Score difference to the second best identified peptide.
Combinatorics		Number of possible distributions of the modifications over the peptide sequence.
Matches		
Intensities		The intensities of the peaks in the fragmentation spectrum after TopN filtering.
Mass Deviations		The search engine allowed mass deviations of the peaks in the fragmentation spectrum.
Masses		The masses-over-charge of the peaks in the fragmentation spectrum.
Charges		
Correlations		
Number of Matches		
Reverse		When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.

# SIM scans

This table contains details about the performed SIM scans, which have been retrieved from the raw-file. This data can for example be used to determine whether the ion ion jection time equals to the maximum time set, which is generally indicative of lower data quality.

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the SIM peptides table, which is used to cross-link the information in this file with the information stored in the other files.
Region		Index of the region this sim-scan is part of.
Raw File		Name of the RAW file the spectral SIM data was extracted from.
Scan Number		The scan number of the SIM scan.
Retention Time		The retention time of the SIM scan.
Ion Injection Time		The ion inject time for the SIM scan. This can be used to determine if this time equals to the maximum ion inject time, generally indicative of a lower quality spectrum.
Total Ion Current		The total ion current of the SIM scan. This value is calculated by summing all the intensity values found in the mass spectral data, which is different from the Xcalibur reported TIC (Xcalibur TIC is 25% of the value reported here).
Min m/z		The low m/z value for this scan.
Max m/z		The high m/z value for this scan.
Elapsed Time		The total time used to record spectral data. This value can be used to determine whether scans where recorded in parallel, in which case this value is larger than the cycle-time (elapsed time between full-scans).
Precursor m/z		The m/z of the precursor.
Precursor charge		The m/z of the precursor.
Experiment		

# SIM peptides

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the SIM peptides table, which is used to cross-link the information in this file with the information stored in the other files.
SimScan IDs		The identifier of the SIM scans this sim-peptide information was retrieved from. The appropriate information can be found in the file 'simScans.txt'.
Raw File		Name of the RAW file the spectral SIM data was extracted from.
m/z		The mass-over-charge.
Charge		The charge-state.
Mass		The actual mass (corrected for charge-state).
Retention Time		The retention time.
Retention Time Length		The length of the chromatogram.
Retention Time Min		The start time of the chromatogram.
Retention Time Max		The end time of the chromatogram.
Number of Scans		The total number of scans taken of the chromatogram.
PIF		Peptide Ion Fraction.
Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a SILAC labeled experiment this is the total intensity of all the isotopic patterns in the SILAC cluster.
Intensities		The separate intensities of the peaks making up the isotope cluster of the label partner.
MS/MS Count		The number of MS/MS scans made for this particular peptide.
MSMS Scan Numbers		The scan numbers of the MS/MS scans made for this particular peptide. Note: This value is not set when no appropriate SILAC cluster is found.
MSMS Isotope Indices		