# Spec2Seq Manual

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#### Introduction

Spec2Seq offers the opportunity to translate precision polymer fragment spectra into their corresponding monomer sequences. It is especially designed for the analysis of precision polymer libraries, but can also be adapted to different systems by providing a tool for creating a personal monomer block library. Furthermore, it can be used to assign peaks directly from known sequences by using the in-built fragment predictor tool. In the next few pages the *Precision Polymer DeNovo Sequencing, Monomer Block Library* and *Fragment Predictor* Tool will be explained.

#### Precision Polymer DeNovo Sequencing

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Precision Polymer DeNov	o Sequencing		
Monomer Block Library			
Fragment Predictor			

**Figure 1**. Start the software by double clicking Spec2Seq.jar. The start-screen of Spec2Seq opens, providing the three options *Precision Polymer DeNovo Sequencing, Monomer Block Library* and *Fragment Predictor*. Choose *Precision Polymer DeNovo Sequencing*.

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C 396.135510 Phenyl oxo Ester	=
D 360.135510 THF Ester	
E 334.119860 PEO Ester	
G 304.109295 Ethyl Ester	-
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**Figure 2**. A new interface opens, showing several buttons and options. Start by selecting your ASCII file (e.g. \*.txt, \*.dat) fragment spectrum file (*Select MS/MS-Spectrum*) and load it into the software (1). Click on *Show Peaks* to see all peaks considered for analysis (2). The precision polymer A-B-C-G-G was chosen for demonstration.



**Figure 3.** After clicking on *Show Peaks* a second window opens, showing the spectrum and considered peaks for analysis. Note that depending on your ASCII file the *Parent Mass* is already filled with the correct value. If not, please insert manually.

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**Figure 4**. The monomer blocks used in the precision polymer library can now be easily selected by double-clicking either on the name, the code or the mass of the monomer (**3**). If your monomer is not yet in the library it can manually be added by clicking *Edit Monomer Library* (**4**). The procedure will be explained in section *Monomer Block Library*. After addition of the newly added monomer block, update the software by clicking *Update Monomer List* (**5**).

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**Figure 5**. The selected monomer blocks now appear next to *Select Monomer Blocks* and can be removed by double-clicking the name of the block in the list. The number of monomer blocks has to be inserted manually (**6**). Default values are already inserted for *Parent Mass Tolerance* and *Fragment Mass Tolerance* and are recommended to use. However, also these values can be edited (**7**) and (**8**).

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**Figure 6**. Note that the number of monomer blocks is now filled. For some measurements it is necessary to include sodium ions (9), choose only if necessary. The results of the calculations can be saved as \*.txt (10). Click *Calculate* to start the analysis (11).



**Figure 7**. The output of the calculation appear in the result window. They are sorted by the number of fragments found, with the highest number on top. Note that only b- and y-fragments count to the final number. However, the a- and x-fragments are shown in the result spectrum, showing the assigned peaks. It can be opened by double-clicking the name of the sequence (12).

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Sequence (1)-HEAKS Solution [1], Mass: 123.6363; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63643; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63643; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63643; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63643; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63643; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Fragments Found: 4); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Yi y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Yi y Y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Yi y Y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Yi y Y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Yi y Y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Yi y Y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.63645; Fragments Found: 3); Yi y Y Sj. Sequence (1)-HEAKS Massi T23.6665; Fragments Found: 4); Yi y Yi y Sj. Sequence (1)-HEAKS Massi T23.6665; Fragments Found: 4); Yi y Yi y Sj. Sequence (1)-HEAKS Massi T23.6665; Fragments Found: 4); Yi y Yi y Y Sj. Sequence (1)-HEAKS Massi T23.6665; Fragments Found: 4); Yi y Yi y Y Sj. Sequence (1)-HEAKS Massi T23.6665; Fragments Found: 4); Yi y Yi y Y Sj. Sequence (1)-HEAKS Massi T23.6665; Fragments Found: 4); Yi y Yi y Y Sj. Sequence (1)-HEAKS Massi T23.6665; Fragments Found: 4); Yi y Yi y Y Sj. Sequence (1)-HEAKS Solution [1], Mass: 123.666145; Fragments Found	Sequence: G1v-DAEDG: Mass: 1723.6497; Fragments found: 3: Fragments found: b 2: b 4: v 5:	
Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02435; Fragments Found: 1): Fragments found: b 4; y 1; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): b 4; y 1; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 4; y 1; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 4; y 1; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Solution Inc.   Mass: 1223.02457; Fragments Found: 1): Fragments found: b 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1): Y 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1): Y 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1): Y 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1): Y 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1): Y 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1): Y 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1): Y 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1): Y 1; y 4; y 5; Sequence: (1)-WHATE Mass: 1223.02467; Fragments found: 1):	Sequence: Gly-HBAEG Sodium Ion : Mass: 1723.626145: Fragments found: 3: Fragments found: b 4: v 1: v 5:	
Sequence (1)-WARES 50tu II on j Mass 1223.020145; Fragments found: 1) Fragments found: 9 4 y 11 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 1) Fragments found: 9 4 y 11 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 1) Fragments found: 9 4 y 11 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 1) Fragments found: 9 4 y 11 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 1) Fragments found: 9 1 y 4 y 1 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 1) Fragments found: 9 1 y 4 y 1 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 1) Fragments found: 10 1 y 4 y 1 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 1) Fragments found: 10 1 y 4 y 1 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 10 1 y 4 y 1 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 10 1 y 1 y 4 y 1 y 5 j Sequence (1)-WARES 50tu II On j Mass 1223.020145; Fragments found: 10 1 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Mass 1223.020145; Fragments found: 10 1 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Mass 1223.020145; Fragments found: 10 1 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Sotu II On j Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Sotu II On j Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Sotu II On j Mass 1223.020145; Fragments found: 10 2 y 1 y 4 y 1 y 5 j Sequence (1)-WARES Sotu II On j Mass 1223.	Sequence: Gly-BHAEG Sodium Ion : Mass: 1723.626145; Fragments found: 3: Fragments found: b 4: y 1: y 5:	
Sequence GJ-PARGS Solu Ion J Rass 1223.62163 Fragments found: b 2, b 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62163 Fragments found: b 4, y 1, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62163 Fragments found: b 4, y 1, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62163 Fragments found: b 1, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62163 Fragments found: b 1, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62163 Fragments found: b 1, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62163 Fragments found: b 1, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62163 Fragments found: b 1, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62163 Fragments found: b 1, y 4, y 5, Sequence GJ-RAMS Mass 1223.626163 Fragments found: b 1, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.626163 Fragments found: b 1, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.626163 Fragments found: b 1, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.626163 Fragments found: b 1, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.626163 Fragments found: b 2, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.62663 Fragments found: b 2, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.62663 Fragments found: b 2, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.62663 Fragments found: b 2, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.62663 Fragments found: b 2, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.62677 Fragments found: b 2, y 3, y 4, y 5, Sequence GJ-RAMS Mass 1223.62613 Fragments found: b 2, b 4, y 4, y 5, Sequence GJ-RAMS Mass 1223.62613 Fragments found: b 2, b 4, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62145 Fragments found: b 1, b 2, y 3, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62145 Fragments found: b 1, b 2, y 3, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62145 Fragments found: b 1, b 2, y 3, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62145 Fragments found: b 1, b 4, y 1, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1223.62145 Fragments found: b 1, b 4, y 1, y 4, y 5, Sequence GJ-RAMS Solu Ion J Rass 1	Sequence: Gly-HABEG Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 4; y 1; y 5;	
Sequence GJ-FBAMG Sodu In On ; Mass 1223.62616; Fragments found: 3; Fragments found: b 4; y 1; y 5; Sequence GJ-FBAMG Sodu In On ; Mass 1223.62616; Fragments found: b 7; y 1; y 4; y 5; Sequence GJ-FBAMG Sodu In On ; Mass 1223.62616; Fragments found: b 1; y 4; y 5; Sequence GJ-FBAMG Sodu In On ; Mass 1223.62163; Fragments found: b 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62163; Fragments found: b 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62163; Fragments found: b 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62163; Fragments found: b 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62163; Fragments found: b 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62163; Fragments found: b 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62163; Fragments found: b 2; y 3; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62164; Fragments found: b 2; y 3; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62164; Fragments found: b 2; y 3; y 4; y 5; Sequence GJ-FABMG Mass 1223.6266; Fragments found: b 2; y 3; y 4; y 5; Sequence GJ-FABMG Mass 1223.6266; Fragments found: b 2; y 3; y 4; y 5; Sequence GJ-FABMG Mass 1223.6266; Fragments found: b 2; y 3; y 4; y 5; Sequence GJ-FABMG Mass 1223.6266; Fragments found: b 2; y 3; y 4; y 5; Sequence GJ-FABMG Mass 1223.6267; Fragments found: b 2; y 3; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.6268; Fragments found: b 1; b 3; y 3; y 4; y 5; Sequence GJ-FABMG Mass 1223.6267; Fragments found: b 1; b 3; y 3; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62616; Fragments found: b 1; b 3; y 3; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62616; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62616; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62616; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62616; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence GJ-FABMG Sodu In On ; Mass 1223.62616; Frag	Sequence: Gly-DADEG; Mass: 1723.6497; Fragments found: 3; Fragments found: b 2; b 4; y 5;	
Sequence GJ-ABR6 Solum Ton ; Mass 122.62645; Fragment found: b 4; V1; V5; Sequence GJ-ABR6 Solum Ton ; Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6 Solum Ton ; Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6 Solum Ton ; Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6 Solum Ton ; Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6 Solum Ton ; Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6 Solum Ton ; Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6 Solum Ton ; Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6 Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6 Mass 122.62645; Fragment found: b 1; V4; V5; Sequence GJ-ABR6, Mass 122.6266; Fragment found: A; Fragment found: b 1; V4; V5; Sequence GJ-ABR6, Mass 122.6266; Fragment found: A; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.666; Fragment found: A; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.666; Fragment found: A; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.666; Fragment found: A; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.666; Fragment found: A; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.666; Fragment found: A; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.666; Fragment found: A; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.666; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.6645; Fragment found: b 1; V4; V5; Sequence GJ-ABR0, Mass 122.6645; Fragment found: b 1; V4; V5; Sequence GJ-ABR0; Mass 122.6645; Fragment found: b 1; V4; V5; Sequence GJ-ABRC Solum Ton ; Mass 122.6645; Fragment found: b 1; V4; V5; Sequence GJ-ABRC Solum Ton ; Mass 122.6645; Fragment found: b 1; V4; V5; Sequence GJ-ABRC Solum Ton ; Mass 122.6645; Fragment found: b 1; V4; V5; Sequence GJ-ABRC Solum Ton ; Mass 122.6645; Fragment found: b 1; V4; V5; Sequence GJ-ABRC Solum Ton ; Mass 122.6645; Fragment found: b 1; V4; V5; Sequence GJ-ABRC Solum Ton ; Mass 122.6645; Fragm	Sequence: Gly-EBAHG Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 4; y 1; y 5;	
Sequence: Gly-ABHC 50dum Ion; Mass: 122.62645; Fragment Found: b 4; V 1; V 5; Sequence: Gly-AEGH Sodum Ion; Mass: 122.62645; Fragment Found: b 1; V 4; V 5; Sequence: Gly-AEGH Sodum Ion; Mass: 122.62645; Fragment Found: b 1; V 4; V 5; Sequence: Gly-AEGH Sodum Ion; Mass: 122.62645; Fragment Found: b 1; V 4; V 5; Sequence: Gly-AEGH Sodum Ion; Mass: 122.62645; Fragment Found: b 1; V 4; V 5; Sequence: Gly-AEGH Sodum Ion; Mass: 122.62645; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGH Sodum Ion; Mass: 122.62645; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.6266; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.6366; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.6366; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.666; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.666; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.666; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.666; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.666; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.666; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.666; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.666; Fragment Found: b 2; V 3; V 4; V 5; Sequence: Gly-AEGD; Mass: 122.6645; Fragment Found: b 1; V 3; V 4; V 5; Sequence: Gly-AEGC found: In: Mass: 122.6644; Fragment Found: b 1; V 4; V 5; Sequence: Gly-AEGC found: In: Mass: 122.66445; Fragment Found: b 1; V 4; V 5; Sequence: Gly-AEGC found: In: Mass: 122.66445; Fragment Found: b 1; V 4; V 1; V 4; V 5; Sequence: Gly-AEGC found: In: Mass: 122.66445; Fragment Found: b 1; V 4; V 1; V 4; V 5; Sequence: Gly-AEGC found: In: Mass: 122.66445; Fragment Found: b 1; V 4; V 1; V 4; V 5; Sequence: Gly-AEGC found: In: Mass: 122.66445; Fragment Found: b 1; V 4; V 1; V 4; V 5; Sequence: Gly-AEGC found: In: Mass: 122.66445; Fragment Found: b 1; V 4; V 1; V 4; V 5; Sequence: Gly	Sequence: Gly-BEAHG Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 4; y 1; y 5;	
Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; Fragments found: 1; y 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 2; y 1; y 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 1; V 2; y 1; y 4; y 5; Sequence: Gly-AdEBH Sodum Ton j Mass: 1723.62145; Fragments found: 5; V 7; Segments found: 1; V 2; y 1; y 4; y 5; Sequence: Gly-AdEBE Sodum Ton j Mass: 1723.62145; Fragments found: 5; V 7; Segments found: 1; D 1; D 2; y 3; y 4; y 5; Sequence: Gly-AdEBE Sodum Ton j Mass: 1723.62145; Fragments found: 5; Fragments found: 5; V 7; Y 5; Sequence: Gly-AdEBE Sodum Ton j Mass: 1723.62145; Fragments found: 5; V 7; Y 5; Sequence: Gly-AdEBE Sodum Ton j Mass: 1723.62145; Fragments found: 5; V 7; Y 5; Sequence: Gly-AdEBE Sodum Ton j Mass: 1723.62145; Fragments found: 5; V 7; Y 5; Sequence: Gly-AdEBE Sodum Ton j Mass: 1723.62145; Fragments found: 5; V 7; Y 5; Sequence: Gly-AdEBE Sodum Ton j Mass: 1723.62145; Fragments found: 5; Fragments found: 5; P 4; Y 1; Y 4; Y 5; Sequence: Gly-AdEBE	Sequence: Gly-EABHG Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 4; y 1; y 5;	
Sequence: GJy-AEGBH Sodulm Ton ; Mass: 1723.626145; Fragments found: 3; Fragments found: 1; y 4; y 5; Sequence: GJy-BAGEH Sodulm Ton ; Mass: 1723.626145; Fragments found: 3; Fragments found: 1; y 4; y 5; Sequence: GJy-BAGEH Sodulm Ton ; Mass: 1723.626145; Fragments found: 1; Pragments found: 1; y 4; y 5; Sequence: GJy-BAGEH Sodulm Ton ; Mass: 1723.626145; Fragments found: 1; Pragments found: 1; y 4; y 5; Sequence: GJy-BAGEH Sodulm Ton ; Mass: 1723.626145; Fragments found: 1; Pragments found: 1; y 4; y 5; Sequence: GJy-BAGEH Sodulm Ton ; Mass: 1723.626145; Fragments found: 1; D; y 3; y 4; y 5; Sequence: GJy-BAEGH Sodulm Ton ; Mass: 1723.626145; Fragments found: 1; D; y 3; y 4; y 5; Sequence: GJy-BAEGH Sodulm Ton ; Mass: 1723.62614; Fragments found: 1; D; y 3; y 4; y 5; Sequence: GJy-BAEGH Mass: 1723.666; Fragments found: 4; Fragments found: D; y 3; y 4; y 5; Sequence: GJy-BABED; Mass: 1723.666; Fragments found: 4; Fragments found: D; y 3; y 4; y 5; Sequence: GJy-BABED; Mass: 1723.666; Fragments found: 4; Fragments found: D; y 3; y 4; y 5; Sequence: GJy-BABED; Mass: 1723.666; Fragments found: 5; Fragments found: 1; D; y 3; y 4; y 5; Sequence: GJy-BABED; Mass: 1723.666; Fragments found: 5; Fragments found: 1; D; y 3; y 4; y 5; Sequence: GJy-BABEC Mass: 1723.666; Fragments found: 5; Fragments found: 1; D; y 3; y 4; y 5; Sequence: GJy-ABBEC Mass: 1723.666; Fragments found: 5; Fragments found: 1; D; y 3; y 4; y 5; Sequence: GJy-ABBES Sodulm Ton ; Mass: 1723.6614; Fragments found: 5; Fragments found: 1; D; y 3; y 4; y 5; Sequence: GJy-ABBES Sodulm Ton ; Mass: 1723.6614; Fragments found: 5;	Sequence: Gly-AGEBH Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 1; y 4; y 5;	
Sequence: GJy-ABEH Sodum In ; Mass: 1723.6661, Fragments found: 3; Fragments found: b 2; y 3; y 5; Sequence: GJy-ABEH Sodum In ; Mass: 1723.6661, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH Sodum In ; Mass: 1723.6661, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.666, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.666, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.666, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.666, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.666, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.666, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.666, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.667, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.667, Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABEH, Mass: 1723.667, Fragments found: c 2; y 3; y 4; y 5; Sequence: GJy-ABEG, Mass: 1723.667, Fragments found: c 2; b 4; y 4; y 5; Sequence: GJy-ABEG, Mass: 1723.667, Fragments found: c 2; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: GJy-ABEG Sodum In ; Mass: 1723.6645, Fragments found: b 1; Pagments found: b 1; b 2; y 3; y 4; y 5; Sequence: GJy-ABEG Sodum In ; Mass: 1723.6645, Fragments found: 5; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: GJy-ABEG Sodum In ; Mass: 1723.6645, Fragments found: 5; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: GJy-ABEG Sodum In ; Mass: 1723.6645, Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABEG Sodum In ; Mass: 1723.6645, Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABEG Sodum In ; Mass: 1723.6645, Fragments found: 5; Fra	Sequence: Gly-AEGBH Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 1; y 4; y 5;	
Sequence: GJy-BAGHE Sodium Ion ; Mass: 1723.62615; Fragments found: 3; Fragments found: b 1; y 4; y 5; Sequence: GJy-BAGEM Sodium Ion ; Mass: 1723.62615; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-BAGEM Sodium Ion ; Mass: 1723.62615; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-BABEM Shass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-BABEM Shass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-BABEM Shass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-BABEM Shass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-BABEM; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-BABEM; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-BABEM; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABDEK; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABDEK; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABDEK; Mass: 1723.687; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABDEK; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJy-ABDEK; Mass: 1723.686; Fragments found: b 2; b 4; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDEK; Sodium Ion ; Mass: 1723.6240; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJy-ABDE	Sequence: Gly-AGBEH Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 1; y 4; y 5;	
Sequence: Gly-AEBGH Sodium Ion ; Mass: 1223.6261; Fragments found: 3; Fragments found: b 1; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.687; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCB; Mass: 1223.687; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCG; Mass: 1223.687; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.62614; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.62614; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG Sodium Ion; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBCG	Sequence: Gly-BAGEH Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 2; y 3; y 5;	
Sequence: GJv-A&EdF Sodium Ion ; Mass: 1723.685 ; Fragments found: 3; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.686 ; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.686 ; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.686 ; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.686 ; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.686 ; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687 ; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687 ; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687 ; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687 ; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: b 1; b 4; y 1; y 3; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium Ion ; Mass: 1723.6245; Fragments found: b 1; b 4; y 1; y 4; y	Sequence: Gly-AEBGH Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 1; y 4; y 5;	
Sequence: Gly-ABEDB; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABEDD; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABEDD; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABEDD; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABEDE; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEG; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ADEDE; Mass: 1223.687; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABEDE; Mass: 1223.687; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABEGE; Sodium I on; Mass: 1223.6621; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66215; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABEGE Sodium I on; Mass: 1223.66216; Fragments fou	Sequence: Gly-BAEGH Sodium Ion ; Mass: 1723.626145; Fragments found: 3; Fragments found: b 2; y 3; y 5;	
Sequence: Gly-ABDEB; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEB; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEB; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEB; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEB; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEB; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEB; Mass: 1723.686; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEB; Mass: 1723.687; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDEG; Mass: 1723.687; Fragments found: b 2; b 4; y 4; y 5; Sequence: Gly-ABDEG; Mass: 1723.687; Fragments found: b 2; b 4; y 4; y 5; Sequence: Gly-ABDEG; Mass: 1723.687; Fragments found: b 2; b 4; y 4; y 5; Sequence: Gly-ABDEG; Sequence: Gly-ABDEG; Sequence; Gly-ABDEG; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABDEG; Sequence; Gly-ABDEG; Sequence; Gly-ABDEG; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABDEG; Sequence; Gly-ABDEG; Sequence; Gly-ABDEG; Fragments found: b 1; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABDEG; Sequence; Gly-ABDEG;	Sequence: Gly-ABEDB; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5;	
Sequence: Gly-ABED; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABED; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABDE; Mass: 1223.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ADED; Mass: 1223.687; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ADED; Mass: 1223.687; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ADED; Mass: 1223.687; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ADED; Mass: 1223.687; Fragments found: 4; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.62614; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ADECG Sodium I on; Mass: 1223.626145; Fragm	Sequence: Gly-ABDEB; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5;	
Sequence: Gly-ABBED; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABBE; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: Gly-ABBC; Mass: 1723.687; Fragments found: 4; Fragments found: b 2; b 4; y 4; y 5; Sequence: Gly-ABBC; Mass: 1723.687; Fragments found: 4; Fragments found: b 2; b 4; y 4; y 5; Sequence: Gly-ABBC; Mass: 1723.687; Fragments found: 4; Fragments found: b 2; b 4; y 4; y 5; Sequence: Gly-ABBC; Mass: 1723.687; Fragments found: 4; Fragments found: b 2; b 4; y 4; y 5; Sequence: Gly-ABBC; Mass: 1723.687; Fragments found: 4; Fragments found: b 2; b 4; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.687; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.687; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.6816; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.6816; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.6816; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.6816; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.68216; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.68216; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.68216; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.68216; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.68216; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.68216; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-ABBC; Sodium Ion; Mass: 1723.68216; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequen	Sequence: Gly-ABEBD; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5;	
Sequence: GJv-ABDE; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687; Fragments found: 4; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687; Fragments found: 4; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Mass: 1723.687; Fragments found: 4; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.62614; Fragments found: 5; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.62614; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE; Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-CBAS Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-CBAS Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: GJv-CBAS Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: GJv-CBAS Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-CBAS Sodium I on; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GJv-ABDE Sodium I on;	Sequence: Gly-ABBED; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5;	
Sequence: Gly-ABBDE; Mass: 1723.680; Fragments found: b; Fragments found: b; y 3; y 4; y 5; Sequence: Gly-ADDCG, Mass: 1723.647; Fragments found: b; Fragments found: b; b; b; y 3; y 4; y 5; Sequence: Gly-ADDCG, Mass: 1723.647; Fragments found: b; Fragments found: b; b; b; y 3; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.647; Fragments found: b; Fragments found: b; b; b; y 3; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.647; Fragments found: b; b; b; y 3; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.647; Fragments found: b; b; b; y 3; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.647; Fragments found: b; Fragments found: b; b; b; y 3; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.647; Fragments found: b; Fragments found: b; b; b; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.647; Fragments found: b; Fragments found: b; b; b; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.6461; Fragments found: b; Fragments found: b; y 4; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.6461; Fragments found: b; Fragments found: b; y 4; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.6461; Fragments found: b; Fragments found: b; y 4; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.62614; Fragments found: b; Fragments found: b; y 4; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.62614; Fragments found: b; Fragments found: b; y 4; y 1; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.62614; Fragments found: b; Fragments found: b; y 4; y 1; y 3; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.62614; Fragments found: b; Fragments found: b; y 4; y 1; y 3; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.62614; Fragments found: b; Fragments found: b; y 4; y 1; y 3; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.62614; Fragments found: b; Y 4; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.62614; Fragments found: b; Y 4; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723.62614; Fragments found: b; Y 4; y 4; y 5; Sequence: Gly-ABBCG Sodium Ion; Mass: 1723	Sequence: Gly-ABDBE; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5;	
Sequence: Gly-AUEUG; Mass: 1723.6497; Fragments found: 4; Fragments found: b 1; b 4; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGG Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-AUEGS Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-AUEGS Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-AUEGS Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-AUEGS Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-AUEGS Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-AUEGS Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 3; y 5; Sequence: Gly-AUEGS Sodium Ion; Mass: 1723.642145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AUEGS Sodium Ion; Mass: 1723.642145; Fragments found: b	Sequence: Gly-ABBDE; Mass: 1723.686; Fragments found: 4; Fragments found: b 2; y 3; y 4; y 5;	
Sequence: GLy-ABGG Sodium Ion; Mass: 122, 6243; Fragments found: 5; Fragments found: 5	Sequence: Gly-ADEDG; Mass: 1723.6497; Fragments found: 4; Fragments found: b 2; b 4; y 4; y 5;	
Sequence: GLy-ABGGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 2; y 3; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 2; y 3; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 4; y 5; Sequence: GLy-ABGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 3; y 5; Sequence: GLy-BAGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; b 4; y 1; y 3; y 5; Sequence: GLy-BAGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; 5; Fragments found: 5 1; 5 4; y 1; y 3; y 5; Sequence: GLy-GAGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 3; y 5; Sequence: GLy-GAGK Sodium in ; Mass: 122.826435; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 3; y 5; Sequence: GLy-ABME Sodium in ; Mass: 122.826435; Fragments found: 5 1; 5 4; y 1; y 3; y 5; Sequence: GLy-ABME Sodium in ; Mass: 122.826435; Fragments found 5 1; 5 4; y 1; y 4; y 5; Sequence: GLy-ABME Sodium in ; Mass: 122.826435; Fragments found 5 1; 5 4; y 1; y 4; y 5; Sequence: GLy-ABME Sodium in ; Mass: 122.826435; Fragments found 5	Sequence: GJ-ADUEG; Mass: 1723.649/; Fragments round: 4; Fragments round: b 2; b 4; y 4; y 5;	
Sequence: GLy-AddGs Sodium in ; Mass: 122.86245; Fragments found: 5; Fragments found:	Sequence: GJX-ABGGC Sodium Ion; Mass: 1/23.626143; Fragments found: 5; Fragments found: 5 1; 5 2; y 3; y 4; y 5;	
Sequence: GLY Addits Solution in (Mass: 122).62043; Fragments found: 5 (Fragments foun	Sequence: G1/-ABHGE Sodium ion; Mass: 1/23.026143; Fragments found: 5; Fragments found: D 1; D 2; Y 3; Y 4; Y 5;	
Sequence: GLy-AddGs Sodium Ion; Mass: 1723.62405; Fragments found: 5; Fragments found:	Sequence: G12-ABGHE Sodium ion; Mass: 1723.026143; Fragments found: 5; Fragments found: D i; D 2; Y 3; Y 4; Y 5;	
Sequence: GLY-AREds Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-AREdS Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-AREDS Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-AREDS Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-AREDS Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-AREDS Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-AREDS Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-AREDS Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 3; y 5; Sequence: GLY-AREDS Sodium ion ; Mass: 172.62045; Fragments found: 5, Fragments found: 5 1, b 4; y 1, y 3; y 5; Sequence: GLY-GRAGS Sodium ion ; Mass: 172.62045; Fragments found: 5 1, Fragments found: 5 1, b 4; y 1, y 3; y 5; Sequence: GLY-GRAGS Sodium ion ; Mass: 172.62045; Fragments found: 5 1, Fragments found: 5 1, b 4; y 1, y 3; y 5; Sequence: GLY-GRAGS Sodium ion ; Mass: 172.62045; Fragments found: 5 1, b 4; y 1, y 3; y 5; Sequence: GLY-GRAGS Sodium ion ; Mass: 172.62045; Fragments found: 5 1, b 4; y 1, y 3; y 5; Sequence: GLY-GRAGS Sodium ion ; Mass: 1723.62045; Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-GRAGS Sodium ion ; Mass: 1723.62045; Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-GRAGS Sodium ion ; Mass: 1723.62045; Fragments found: 5 1, b 4; y 1, y 4; y 5; Sequence: GLY-AREMS Sodium ion ; Mass: 1723.62045; Fragments found: 5 1, b 2; b 4; y 1, y 4; y 5; Sequence: GLY-AREMS Sodium ion ; Mass: 1723.62045; Fragments found: 5 1, b 2; b 4; y 1; y 3; y 4; y 5; Sequence: GLY-AREMS Sodium ion ; Mass: 1723.62045; Fragments found: 5 1, b 2; b 4; y 1; y 3; y 4; y 5; Sequence: GLY-AREMS Sodi	Sequence: ujy-Addod Soduum Ion ; Mass: 1/23.000443; Fragments Tound: 5 ; Fragments Tound: 5 1; 5 4; y 1; y 4; y 5;	
Sequence: G1y-ARHEG Sodium Ion ; Mass: 1723.024165; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 4; y 5; Sequence: G1y-ARHEG Sodium Ion ; Mass: 1723.024165; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 4; y 5; Sequence: G1y-ARHEG Sodium Ion ; Mass: 1723.024165; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 3; y 5; Sequence: G1y-ARHEG Sodium Ion ; Mass: 1723.024165; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 3; y 5; Sequence: G1y-CAREG Sodium Ion ; Mass: 1723.024165; Fragments found: 5; Fragments found: 5 2; 5 Fragments found: 5 3; 5 4; y 1; y 3; y 5; Sequence: G1y-CAREG Sodium Ion ; Mass: 1723.0240165; Fragments found: 5; Fragments found: 5 3; 5 4; y 1; y 3; y 5; Sequence: G1y-CAREG Sodium Ion ; Mass: 1723.0240165; Fragments found: 5; Fragments found: 5 3; 5 4; y 1; y 3; y 5; Sequence: G1y-CAREG Sodium Ion ; Mass: 1723.0240165; Fragments found: 5; Fragments found: 5 3; 5 4; y 1; y 2; y 5; Sequence: G1y-CAREG Sodium Ion ; Mass: 1723.0240165; Fragments found: 5; Fragments found: 5 3; 5 4; y 1; y 2; y 5; Sequence: G1y-AEBHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5; Fragments found: 5 1; 9 4; y 1; y 2; y 5; Sequence: G1y-AEBHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 3; y 5; Sequence: G1y-AEBHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 3; y 5; Sequence: G1y-AEBHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 3; y 4; y 5; Sequence: G1y-ABEHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5 1; 5 Fragments found: 5 1; 5 4; y 1; y 3; y 4; y 5; Sequence: G1y-ABEHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5 1; 5 4; 2 4; y 1; y 3; y 4; y 5; Sequence: G1y-ABEHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5 1; 5 2; 5 4; y 1; y 3; y 4; y 5; Sequence: G1y-ABEHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5 1; 5 2; 5 4; y 1; y 3; y 4; y 5; Sequence: G1y-ABEHE Sodium Ion ; Mass: 1723.0240165; Fragments found: 5 1; 5 2; 5 4; 5 4	Sequence: G1/Antros Sodium ion; mass: 1/2.000443; Fragments found: 5; Fragments found: 5 1; 5 4; y 1; y 4; y 5; Sequence: G1/Antros Sodium ion; Mass: 1/23.050445; Fragments found: 5; Fragments found: 6 1; b 4; y 1; y 4; y 5;	
Sequence: GLy AddCG Solia in in , Mass: 1723.024245; Fragments found: 5 j - Faguents found: 5 j - 5 j	Sequence: Gly-Actob Solum Ion; Mass: 172.302044; Frequencis found: 5; Frequencis found: 51; 54; 91; 94; 95;	
Sequence: Gly-ABRGG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 2; b 4; y 1; y 3; y 5; Sequence: Gly-ABRES Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 2; b 4; y 1; y 3; y 5; Sequence: Gly-CBRG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 3; y 5; Sequence: Gly-CBRG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 3; y 5; Sequence: Gly-CBRG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 3; y 5; Sequence: Gly-CBRG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 3; y 5; Sequence: Gly-CBRG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 3; y 5; Sequence: Gly-AEBRE Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 3; y 5; Sequence: Gly-AEBRE Sodium Ion ; Mass: 123.62645; Fragments found: b 7; Fragments found: b 2; b 4; y 1; y 3; y 5; Sequence: Gly-AEBRE Sodium Ion ; Mass: 123.62645; Fragments found: b 7; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-AEBRE Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-AEBRE Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ABREG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ABREG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 3; y 1; y 3; y 4; y 5; Sequence: Gly-ABREG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 3; y 1; y 3; y 4; y 5; Sequence: Gly-ABREG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 3; y 1; y 3; y 4; y 5; Sequence: Gly-ABREG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABREG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABREG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABREG Sodium Ion ; Mass:	Sequence: Gly-ARCE Sodium for , Mass. 1723.020449; Fragments found: 5; Fragments found: 6 1; 6 4; 9 1; 9 4; 9 3; Sacuance: Gly-ARCE Sodium for , Mass. 1723.020449; Fragments found: 5; Fragments found: 6 1; 6 4; 9 1; 9 4; 9 3;	
Sequence: cly-AMBC6 Solum in ; has: 1223.024025; Fragments found: 5; Fragments found: 5; b, 4; y, 1; y, 4; y, 5; Sequence: cly-RABC6 Solum in ; has: 1223.024025; Fragments found: 5; Fragments found: 5; b, 4; y, 1; y, 1; y, 1; y, 5; Sequence: cly-RAGC6 Solum in ; has: 1223.024025; Fragments found: 5; Fragments found: 5; b, 4; y, 1; y, 1; y, 2; y, 5; Sequence: cly-RAGC6 Solum in ; has: 1223.024025; Fragments found: 5; Fragments found: 5; Fragments found: 5; Fragments found: 5; b, 4; y, 1; y, 1; y, 2; y, 5; Sequence: cly-RAGC6 Solum in ; has: 1223.024025; Fragments found: 5; Fra	Sequence: Gly-Made Sodium for , Mass. 1723.02049, Fragments found 5, Fragments found 6, 9, 4, 9, 1, 9, 9, 9, 5,	
Sequence: Gly-RAHEG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 2; b 4; y 1; y 3; y 5; Sequence: Gly-RAGKG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 2; y 5; Sequence: Gly-RAGKG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 2; y 5; Sequence: Gly-RAGKG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 2; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 2; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 2; b 4; y 1; y 3; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: 5; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b; 1; Pragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 3; y 1; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 3; y 1; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 3; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 3; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-RAEMG Sodium Ion ; Mass: 123.62645; Fragments found: b;	Sequence: Gly_AHEG Godium Ton ; Massi Ar2/1000445; Fragments found: 5; Fragments found: 5; 5; 5; 5;	
Sequence: Gly-RAGG Soduu To i Mass: 1223.624165; Fragments found: 5; Fragments found: 5 i b 4; y 1; y 2; y 5; Sequence: Gly-RAGG Soduu To i Mass: 1223.624165; Fragments found: 5; Fragments found: 5 i b 4; y 1; y 2; y 5; Sequence: Gly-RAGG Soduu To i Mass: 1223.624165; Fragments found: 5; Fragments found: 5 i b 4; y 1; y 2; y 5; Sequence: Gly-RABHS Soduu To i Mass: 1223.624165; Fragments found: 5; Fragments found: 7; Fra	Sequence Glv-BaHFE Sodium Ion; hass 1723.626145; Fragments found: 5: Fragments found: b 2: b 4: v1: v 3: v 5:	
Sequence: Gly-BAGG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 2; y 5; Sequence: Gly-ABBG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 3; b 4; y 1; y 2; y 5; Sequence: Gly-ABBG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: Gly-ABBG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABBG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-ABBG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 3; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-ABBGG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-ABBEG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-ABBEG Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1;	Sequences Glu-ChAGe Sodium for in Mass: 1/2702.626145; Fragments found: 5: Fragments found: b 3: b 4: v1: v2: v5:	
Sequence: Gly-RABGG Soduum to, imas: 1723.624165; Fragments found: 5; Fragments found: b, b, b, y, 1; y, 2; y, 5; Sequence: Gly-RABHG Soduum to, imas: 1723.624165; Fragments found: 5; Fragments found: b, b, b, y, 1; y, 1; y, 4; y, 5; Sequence: Gly-RABHG Soduum to, imas: 1723.624165; Fragments found: 5; Fragments found: b, b, b, y, 1; y, 1; y, 4; y, 5; Sequence: Gly-RABHG Soduum to, imas: 1723.624165; Fragments found: 5; Fragments found: b, b, b, y, 1; y, 1; y, 4; y, 5; Sequence: Gly-RABGH Soduum to, imas: 1723.624165; Fragments found: 5; Fragments found: b, b, b, y, 1; y, 1; y, 4; y, 5; Sequence: Gly-RABGG Soduum to, imas: 1723.624165; Fragments found: 5; Fragments found: b, b, b, b, y, 1; y, 3; y, 4; y, 5; Sequence: Gly-RABGG Soduum to, imas: 1723.624165; Fragments found: 7; Fragments found: b, b, b, b, b, y, 1; y, 3; y, 4; y, 5; Sequence: Gly-RABGG Soduum to, imas: 1723.624165; Fragments found: 7; Fragments found: b,	Sequence: Gly-BCAGG Sodium Ion : Mass: 1723.626145: Fragments found: 5: Fragments found: b 3: b 4: y 1: y 2: y 5:	
Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 2; b 4; y 1; y 3; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 1; b 4; y 1; y 3; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 1; b 2; y 3; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 5; Fragments found: b 1; b 2; b 3; y 1; y 3; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-AEBMG Sodium Ion; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-BAGGS Sodium Ion; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-BAGGS Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-BAGGS Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-BAGGS Sodium Ion; Mass: 1723.626145; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-BAGGS Sodium Ion; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-BAGGS Sodium Ion; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 2; y 4; y 5; Sequence: GLy-BAGGS Sodium Ion; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 2; y 4; y 5; Se	Sequence: Gly-CABGG Sodium Ion : Mass: 1723.626145: Fragments found: 5: Fragments found: b 3: b 4: y 1: y 2: y 5:	
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Sequence: Gly-ABGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABHG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAGGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 2; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 2; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: b 1; b 2; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 2; y 3; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-BAFG Sodium Ion ; Mass: 1723.626145; Fragments found: b 2; b 4; y 1; y 3; y 3; b 5; Sequence: Gly-BAFG Sodium Ion ; Mass: 1723.626145; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5; Sequence: Gly-BAFG Sodium Ion ; Mass: 1723.626145; Fragments found: b 1; b 2; b 4; y 1; y 3; y 5; Sequence: Gly-BAFG Sodium Ion ; Mass: 1723.626145; Fragment found: b 1; b 2; b 4; y 5; Sequence: Gly-BAFG Sodium Ion ; Mass: 1723.626145; Fragment found: b 1; b 2; b	Sequence: Gly-ABEGH Sodium Ion ; Mass: 1723.626145; Fragments found: 5; Fragments found: b 1; b 2; y 3; y 4; y 5;	
Sequence: Gly-ABHCG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 3; y 4; y 5; Sequence: Gly-ABCGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 2; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 2; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 2; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 2; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 2; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 2; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 4; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 4; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 4; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 4; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 4; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: 7; Fragments found: 7; J: p 4; y 1; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Frag	Sequence: Gly-ABGCG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5;	
Sequence: Gly-ACBGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5; Sequence: Gly-BACGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 2; b 3; b 4; y 1; y 2; y 3; y 5; Sequence: Gly-BAFGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 3; y 5;	Sequence: Gly-ABHEG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 2; b 4; y 1; y 3; y 4; y 5;	
Sequence: GLy-BACGG Sodium Ion; Mass: 1723.662645; Fragments found: 7; Fragments found: b 2; b 3; b 4; y 1; y 2; y 3; y 5; Sequence: GLy-BACGG Sodium Ion; Mass: 1723.662645; Fragments found: b 1; b 2; b 4; b 4; y 4; y 4; y 5;	Sequence: Gly-ACBGG Sodium Ion ; Mass: 1723.626145; Fragments found: 7; Fragments found: b 1; b 3; b 4; y 1; y 2; y 4; y 5;	
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Sequence: Gly-ABCGG Sodium Ion ; Mass: 1723.626145; Fragments found: 9; Fragments found: b 1; b 2; b 3; b 4; y 1; y 2; y 3; y 4; y 5;	Sequence: Gly-ABCGG Sodium Ion ; Mass: 1723.626145; Fragments found: 9; Fragments found: b 1; b 2; b 3; b 4; y 1; y 2; y 3; y 4; y 5;	
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Figure 8. For detailed description such as which fragments were found the result.txt file can be opened.

## Monomer Block Library

One Letter Code       Mass       14         13       Da       Add Monomer to Library         Comment       15         Comment       15         Code mass       A         A       290.093645       Methyl Ester         B       332.140595       Isobutyl/tert-Butyl Ester         C       396.135510       Phenyl oxo Ester         D       360.135510       THF Ester         E       334.119860       PEO Ester         G       304.109295       Ethyl Ester         H       366.124945       Phenyl Ester	<u></u>	- 🗆 🗾 ×	
Comment         15           Code mass         A         290.093645         Methyl Ester           B         332.140595         Isobutyl/tert-Butyl Ester         C           C         396.135510         Phenyl oxo Ester         D           D         360.135510         THF Ester         E           E         334.119860         PEO Ester         G           G         304.109295         Ethyl Ester           H         366.124945         Phenyl Ester	One Letter Code	Mass 14 Da Add Monomer to Library	]
Code mass         Methyl Ester           B         332.140595         Isobutyl/tert-Butyl Ester           C         396.135510         Phenyl oxo Ester           D         360.135510         THF Ester           E         334.119860         PEO Ester           G         304.109295         Ethyl Ester           H         366.124945         Phenyl Ester	Comment	15	
A       290.093645       Methyl Ester         B       332.140595       Isobutyl/tert-Butyl Ester         C       396.135510       Phenyl oxo Ester         D       360.135510       THF Ester         E       334.119860       PEO Ester         G       304.109295       Ethyl Ester         H       366.124945       Phenyl Ester	Code mass		
B       332.140595       Isobutyl/tert-Butyl Ester         C       396.135510       Phenyl oxo Ester         D       360.135510       THF Ester         E       334.119860       PEO Ester         G       304.109295       Ethyl Ester         H       366.124945       Phenyl Ester	A 290.093645	5 Methyl Ester	
C 396.135510 Phenyl oxo Ester D 360.135510 THF Ester E 334.119860 PEO Ester G 304.109295 Ethyl Ester H 366.124945 Phenyl Ester	B 332.140595	5 Isobutyl/tert-Butyl Ester	
D 360.135510 THF Ester E 334.119860 PEO Ester G 304.109295 Ethyl Ester H 366.124945 Phenyl Ester	C 396.135510	0 Phenyl oxo Ester	
E 334.119860 PEO Ester G 304.109295 Ethyl Ester H 366.124945 Phenyl Ester	D 360.135510	0 THF Ester	
G 304.109295 Ethyl Ester H 366.124945 Phenyl Ester	E 334.119860	D PEO Ester	
H 366.124945 Phenyl Ester	G 304.109295	5 Ethyl Ester	
	H 366.124945	5 Phenyl Ester	
	,		
Remove Monomer		Remove Monomer	

**Figure 9**. For adding a new monomer to the library a one letter code has to be created (**13**). Note that also numbers are allowed as one letter codes. Next, enter the exact mass of the building block as diradical (**14**). An additional comment can be added such as the full monomer name (**15**). Click *Add Monomer to Library*.

🛃 – 🗆 🗙	
One Letter Code         Mass           Z         500.000000         Da         Add Monomer to Library	]
Comment	
Example	
Code mass	
A 290.093645 Methyl Ester	
B 332.140595 Isobutyl/tert-Butyl Ester	
C 396.135510 Phenyl oxo Ester	
D 360.135510 THF Ester	
E 334.119860 PEO Ester	
G 304.109295 Ethyl Ester	
H 366.124945 Phenyl Ester	
Z 500.000000 Example	
Remove Monomer	

Figure 10. A monomer block was added with the one letter code "Z", the mass "500.000000" and the comment "Example". It appears now in the library.

# **Fragment Predictor**

<u></u>			-	×
Poly	/mer:		Sodium I	ons <b>17</b>
Coo	le mass		16	
Α	290.093645	Methyl Ester	10	
в	332.140595	Isobutyl/tert-Butyl Ester		
С	396.135510	Phenyl oxo Ester		
D	360.135510	THF Ester		
E	334.119860	PEO Ester		
G	304.109295	Ethyl Ester		
Н	366.124945	Phenyl Ester		
Z	500.000000	Example		
	Compare to Spe	ectrum	Save Resu	lt

**Figure 11**. The fragment predictor can be used building up the precision polymer by double clicking the monomers (**16**). It can be chosen to include sodium ion (**17**). By clicking *Predict Polymer Fragments* the software calculates the expected fragments.

🛃 – 🗆 🗙	🛓 – 🗆 🗙
Polymer: A B C G G 🗌 Sodium lons	Polymer: A B C G G 🗹 Sodium lons
Code mass         A       290.093645       Methyl Ester         B       332.140595       Isobutyl/tert-Butyl Ester         C       396.135510       Phenyl oxo Ester         D       360.135510       THF Ester         E       334.119860       PEO Ester         G       304.109295       Ethyl Ester         H       366.124945       Phenyl Ester         Z       500.000000       Example	Code massA290.093645Methyl EsterB332.140595Isobutyl/tert-Butyl EsterC396.135510Phenyl oxo EsterD360.135510THF EsterE334.119860PEO EsterG304.109295Ethyl EsterH366.124945Phenyl EsterZ500.00000Example
Parent Ion Mass (Proton): 1701.6442         b 1 Masse: 347.1389         b 2 Masse: 679.2795         b 3 Masse: 1075.415         b 4 Masse: 1379.5243         b 5 Masse: 1683.6336         a 1 Masse: 364.1417         a 2 Masse: 696.2823         a 3 Masse: 1092.4178         a 4 Masse: 1396.5271         a 5 Masse: 1700.6364         y 1 Masse: 279.1379	Parent Ion Mass (Sodium): 1723.6261         b 1 Masse: 369.1209         b 2 Masse: 701.2615         b 3 Masse: 1097.397         b 4 Masse: 1401.5063         b 5 Masse: 1705.6156         a 1 Masse: 386.1236         a 2 Masse: 718.2642         a 3 Masse: 1114.3997         a 4 Masse: 1418.509         a 5 Masse: 1722.6183         y 1 Masse: 301.1198
Compare to Spectrum Save Result	Compare to Spectrum Save Result

Figure 121. Results of the calculations excluding and including sodium ions.



**Figure 13**. The button *Compare to spectrum* offers the direct comparison to a measured spectrum. This tool comes in handy for known sequences.

## FAQ

1. The result shows "no match".

A: This error appears when no sequences can be assigned. Often the parent mass is wrong/missing, or the number of monomer blocks is wrong. Also check whether the *Sodium lons* button is selected.

2. Length is empty.

A: Enter a value for the building blocks and try again.

3. No spectrum selected.

A: The selected spectrum has the wrong format or cannot be read. Only ASCII files (e.g. \*.txt, \*.dat) accepted.