

**A Rapid Bio-typing Discrimination of Methicillin Susceptible and Resistant
Staphylococcus aureus Using Flow Injection Analysis-Ion Mobility-Mass
Spectrometry**

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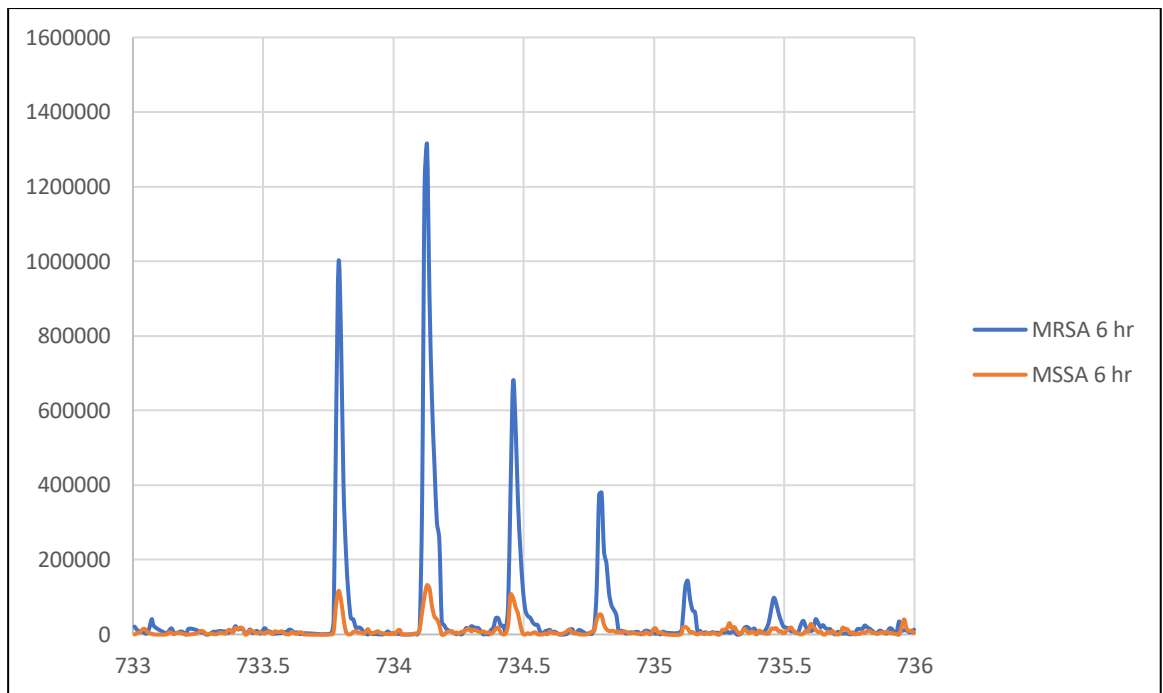
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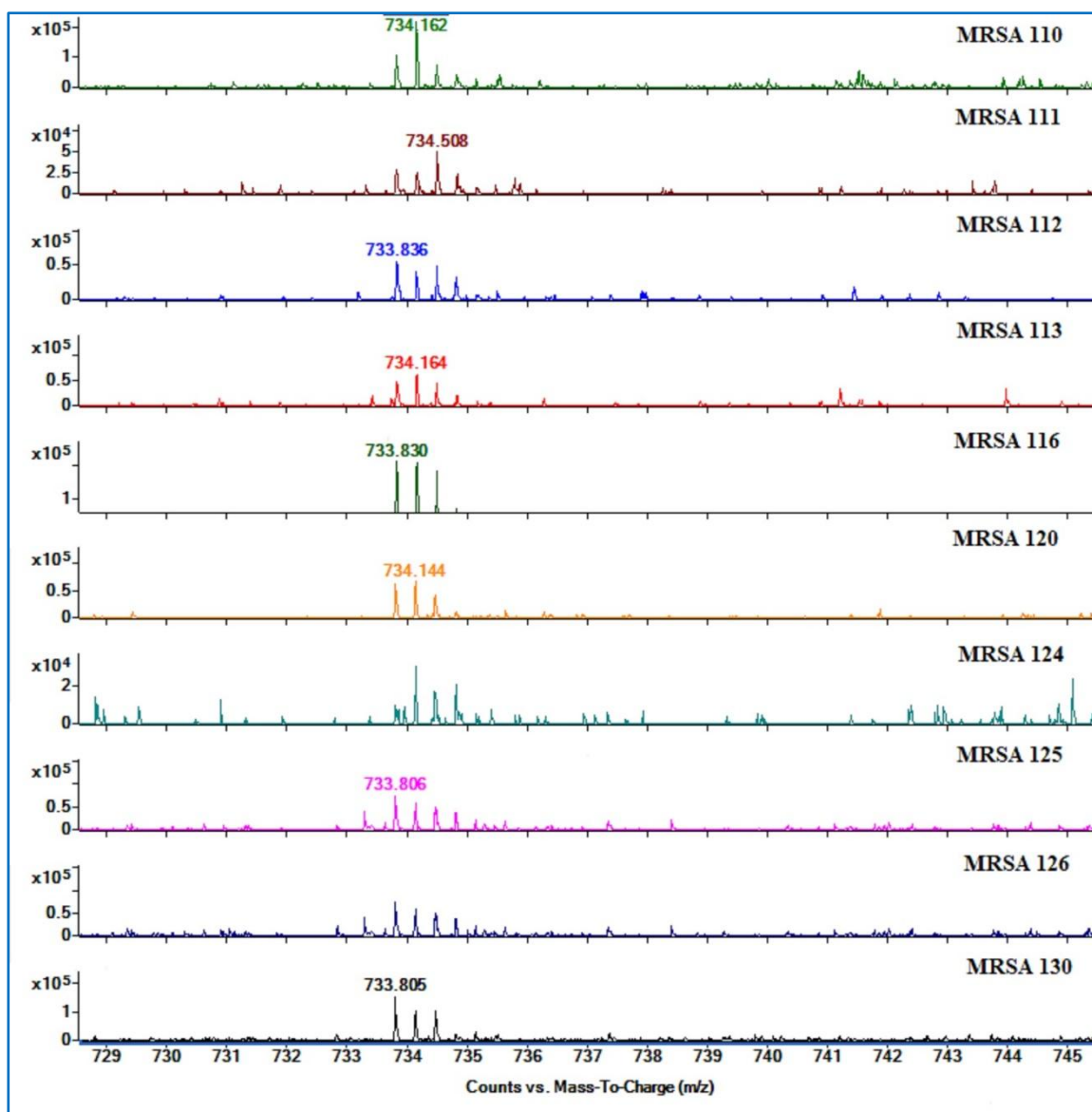
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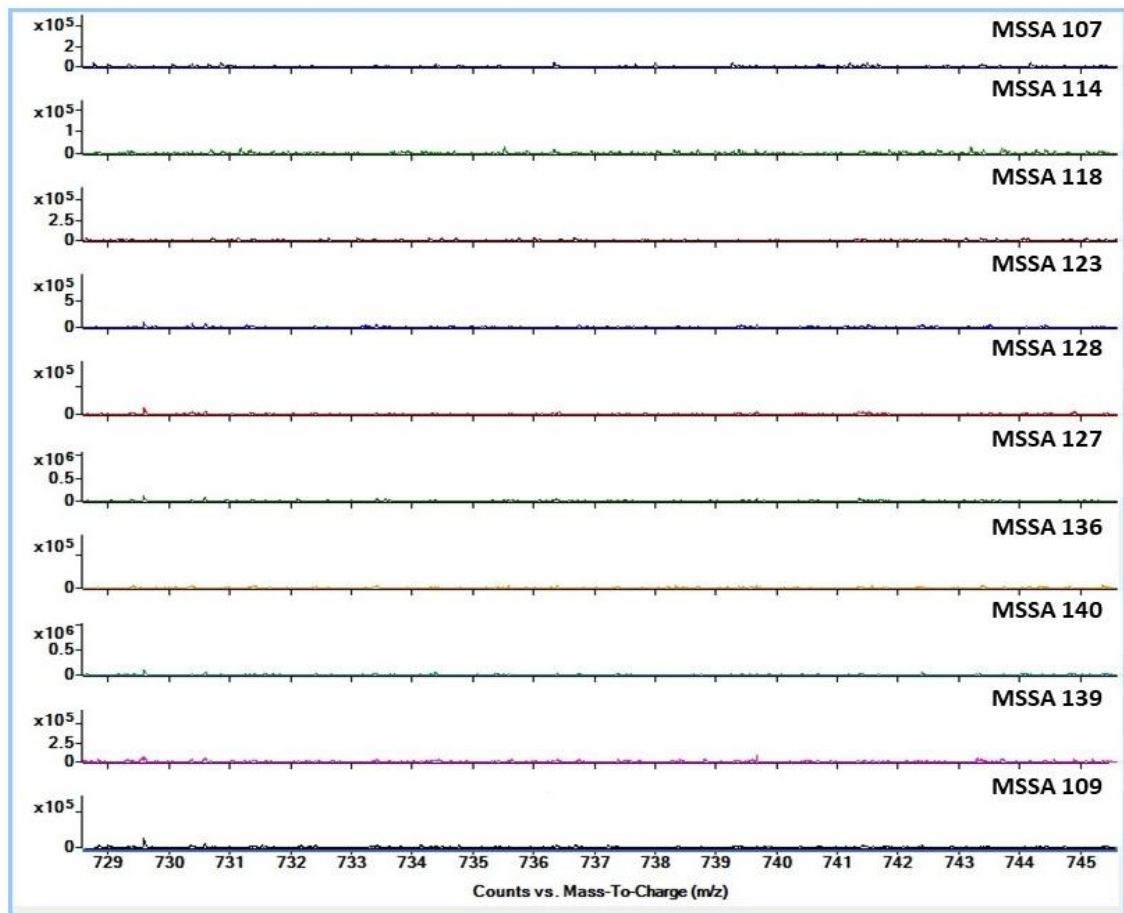
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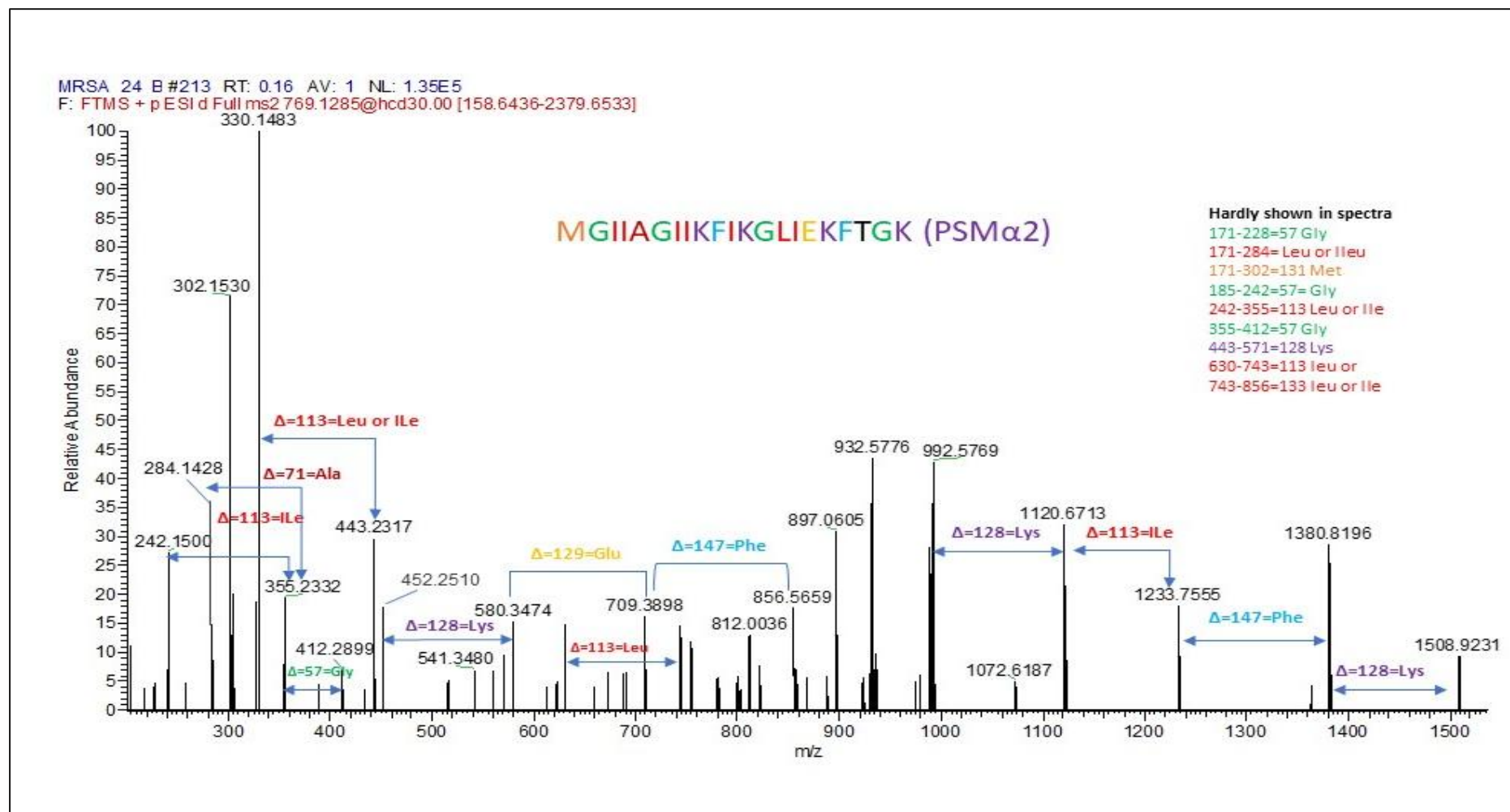
Supplementary Fig. S1. Mass spectral comparison of the 6 hr incubation time point for MRSA and MSSA strains tested showing the signal for m/z 733.790 and the isotopic pattern. The intensity of the peak was observed to be higher in MRSA.



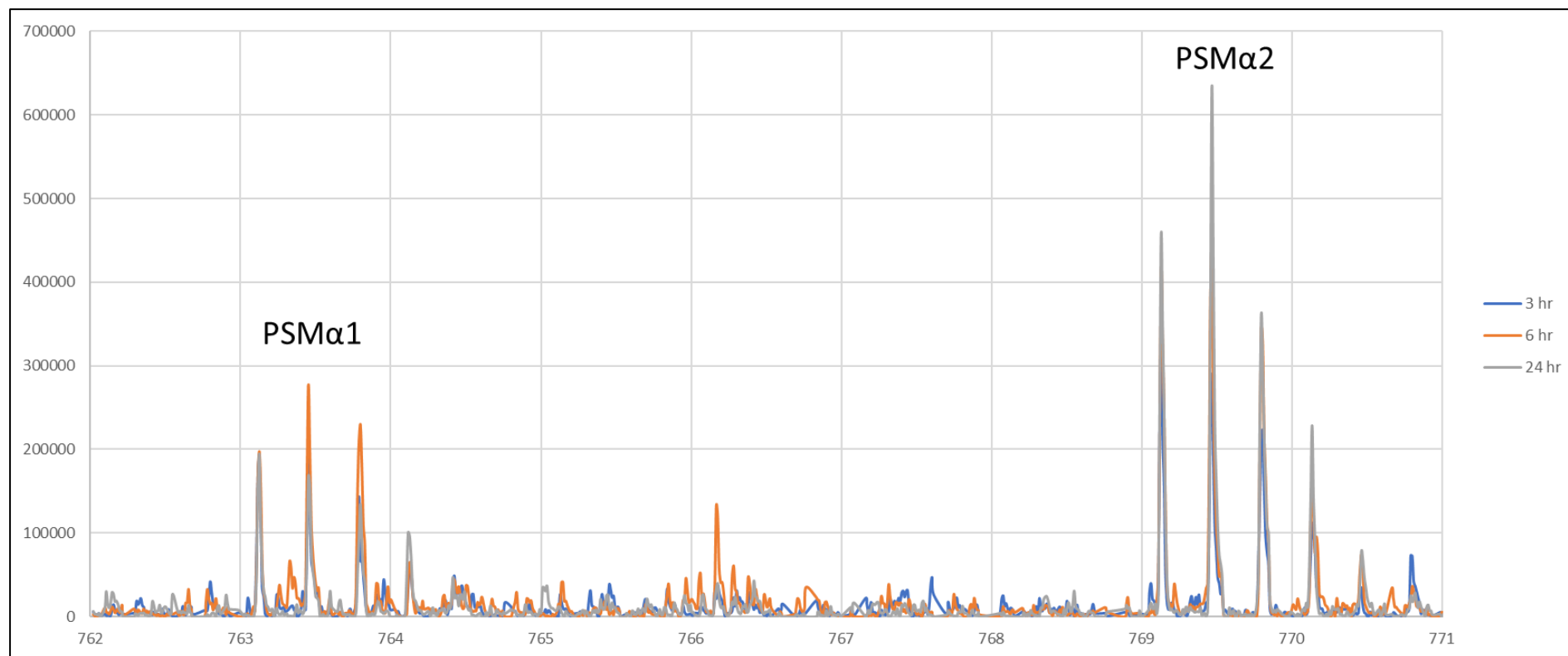
Supplementary Fig. S2: The peak for PSM α 4 (m/z 733-735) in different clinical isolates of resistant *S. aureus* (MRSA).



Supplementary Fig. S3: The spectra do not show the presence of a peak for PSMα4 (m/z 733-735) in any *S. aureus* susceptible clinical isolates (MSSA).



Supplementary Fig. S4: The fragmentation spectrum of the peak at m/z 769.128. Logical losses for the amino acids are shown using the *de novo* sequencing method which represents Phenol-soluble Modulin alpha 2 (PSM α 2) peptide. (Not all losses have been shown in the spectrum due to poorly resolved spectra. The ranges and the resulting losses for amino acids are given in the right corner of the figure in color).



Supplemental Fig. S5. Mass spectra comparison from m/z 762 to 771 showing the identification of PSM α 1 and PSM α 2 in the incubation of MRSA at 3, 6 and 24 hr.