

Supplementary Materials

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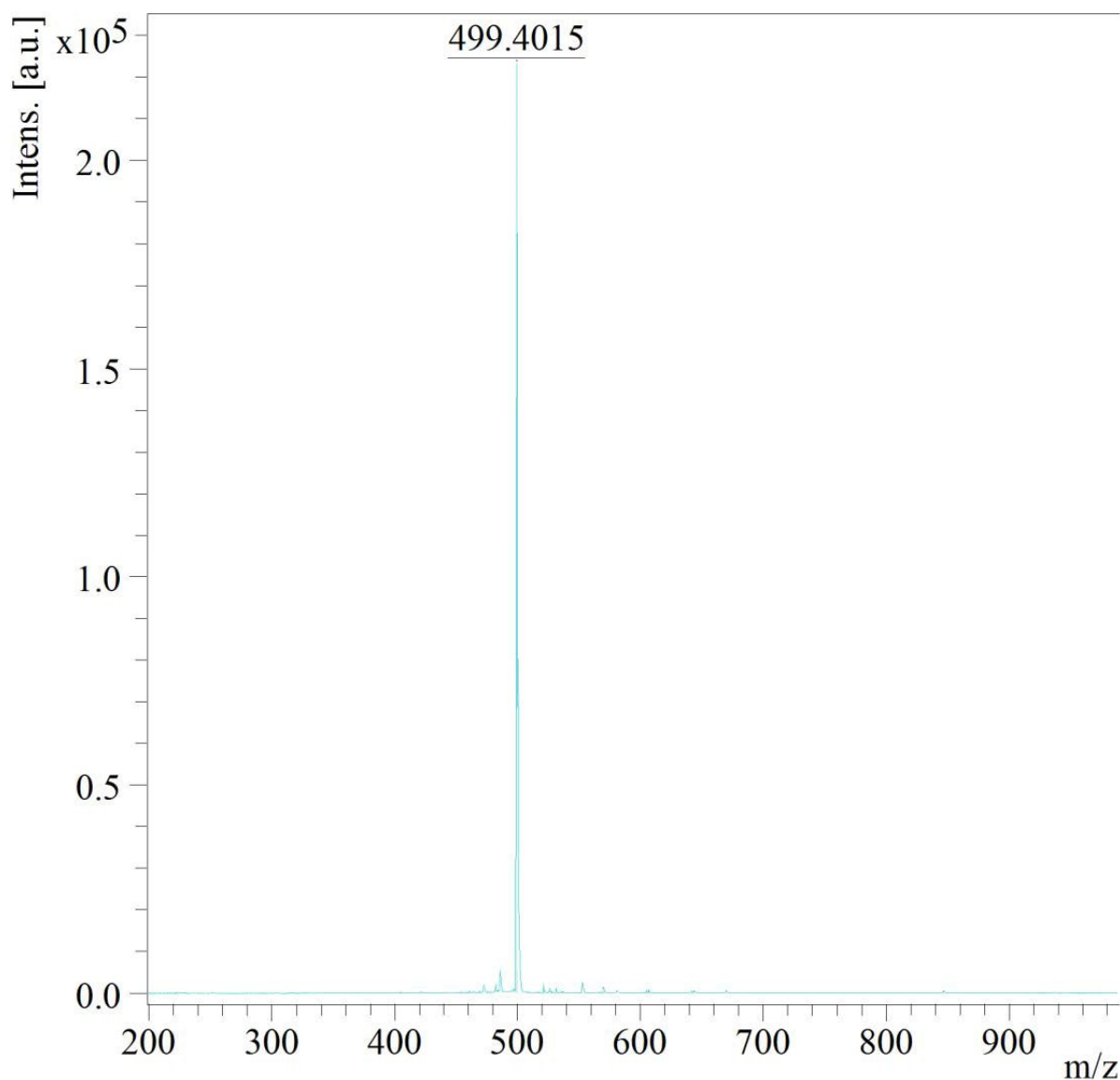


Figure S1. (WRH)₁: MALDI-TOF (m/z) C₂₃H₃₃N₉O₄ Calculated: 499.2645, Found: 499.4015 [M+2H]⁺.

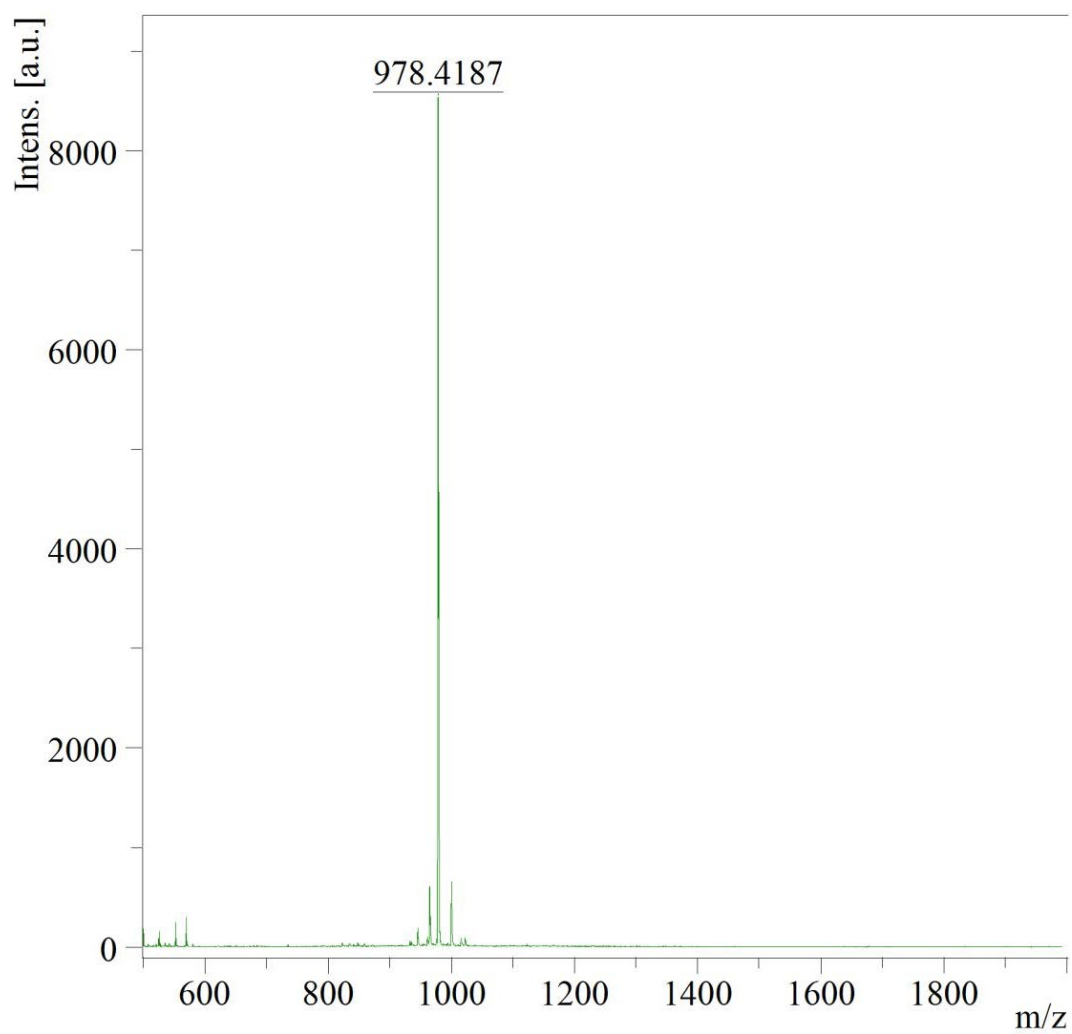


Figure S2. (WRH)₂: MALDI-TOF (m/z) C₄₆H₆₂N₁₈O₇ Calculated: 978.5038, Found: 978.4187 [M+2H]⁺.

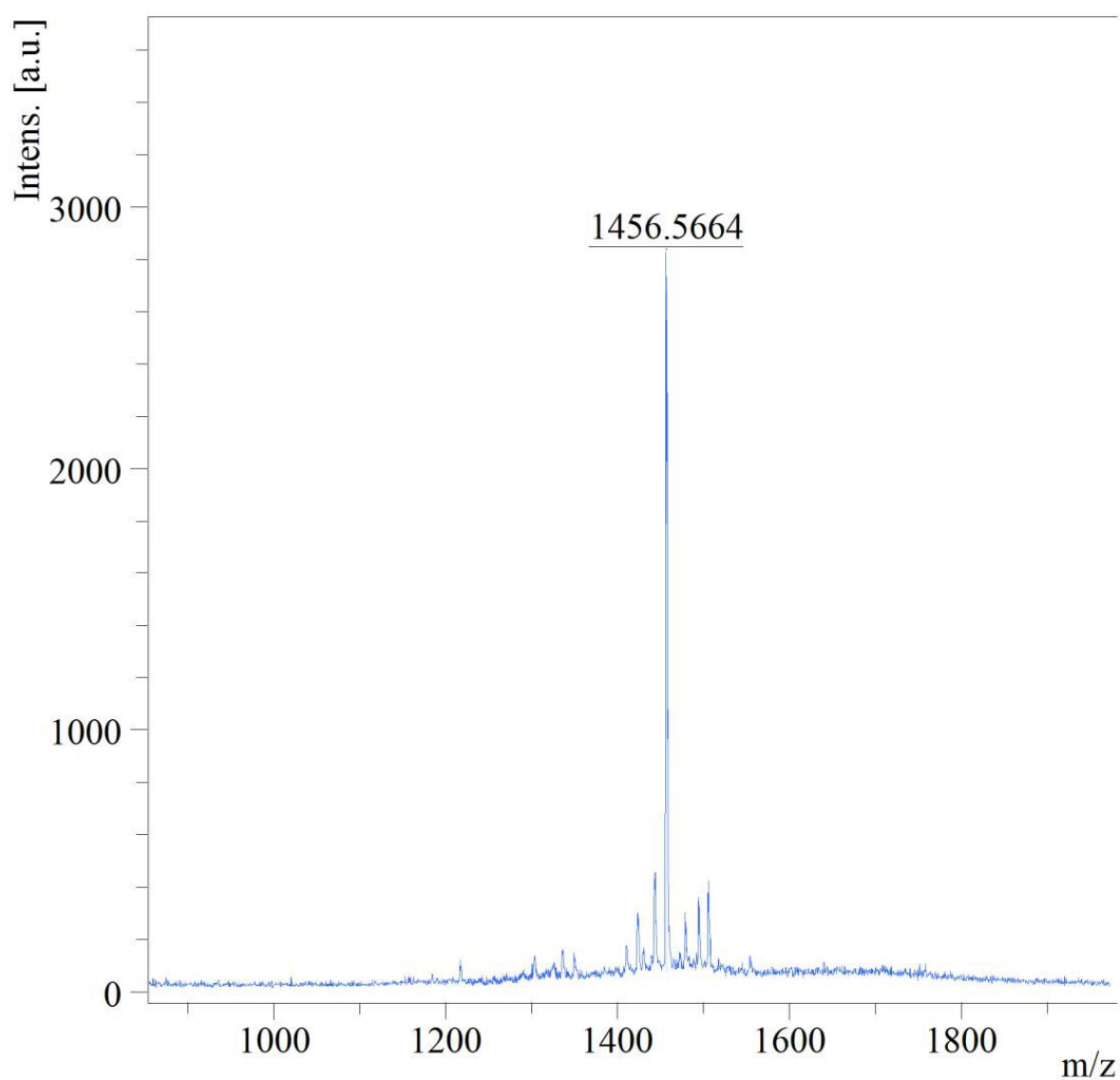


Figure S3. (WRH)₃: MALDI-TOF (m/z) C₆₉H₉₀N₂₇O₁₀ Calculated: 1456.7358, Found: 1456.5664 [M+H]⁺.

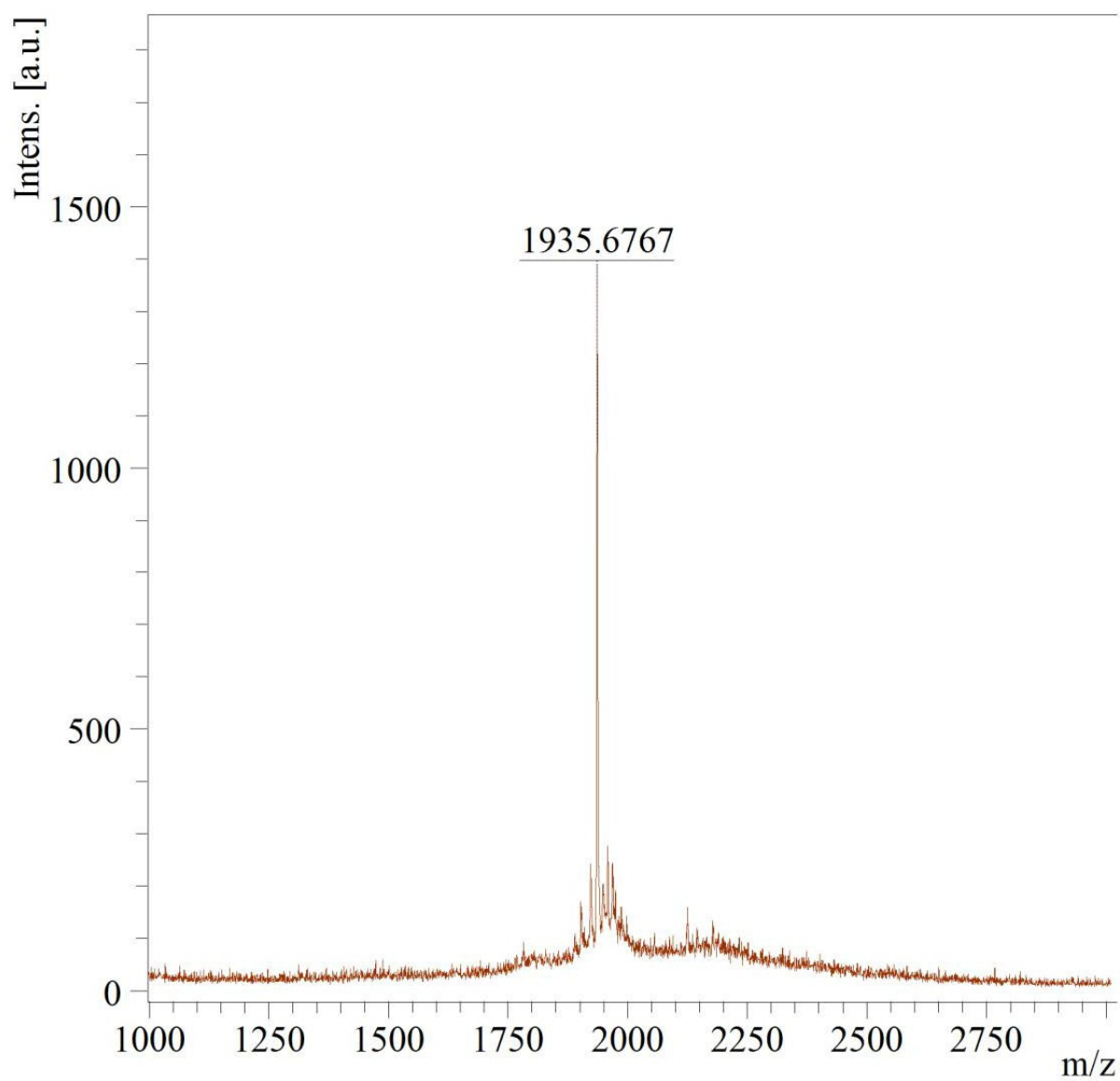


Figure S4. (WRH)₄: MALDI-TOF (m/z) C₉₂H₁₁₉N₃₆O₁₃ Calculated: 1935.9752, Found: 1935.6767 [M+H]⁺.

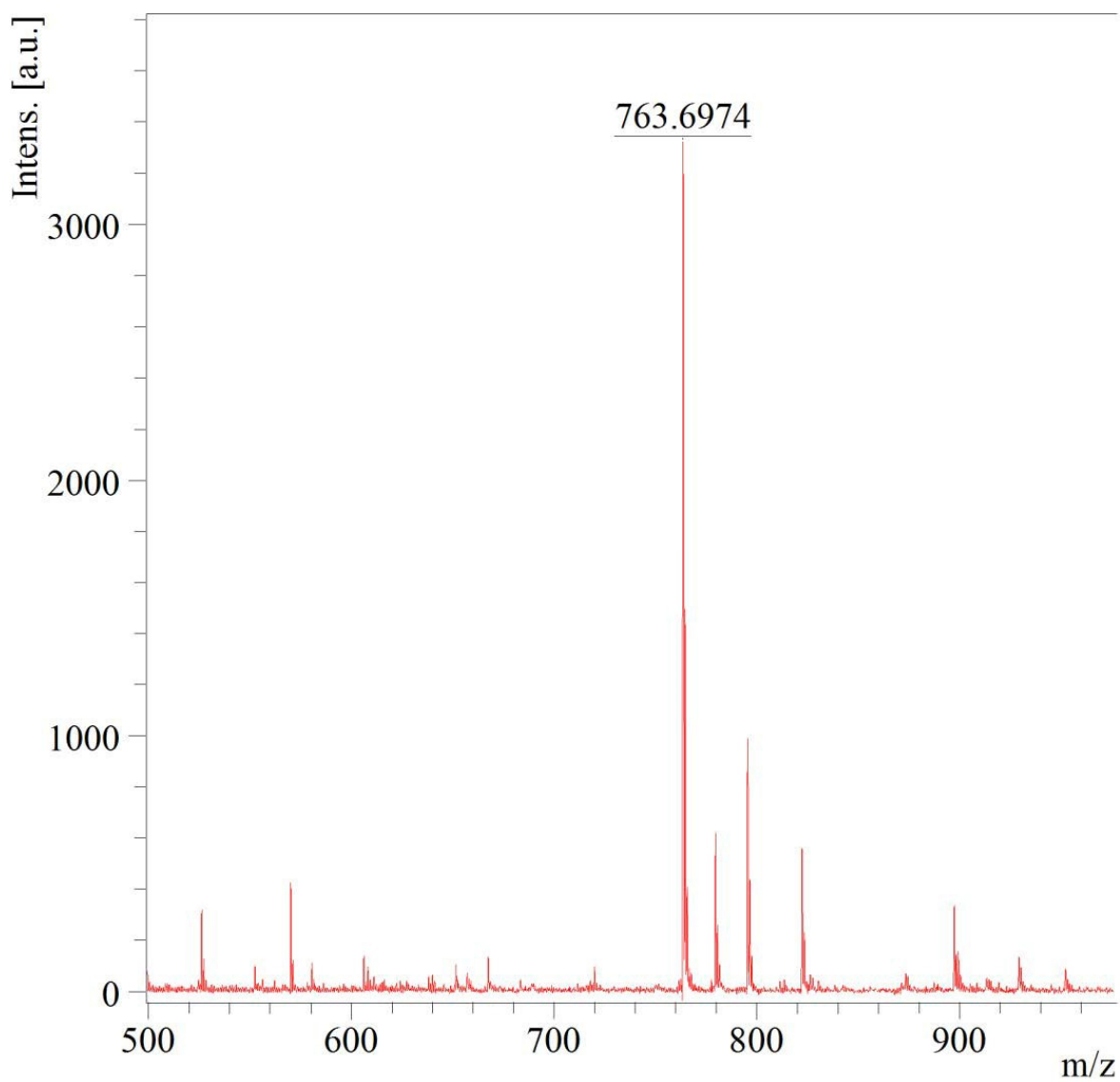


Figure S5. Oleyl-(WRH)₁: MALDI-TOF (m/z) C₄₁H₆₅N₉O₅ Calculated: 763.5098, Found: 763.6974 [M+2H]⁺.

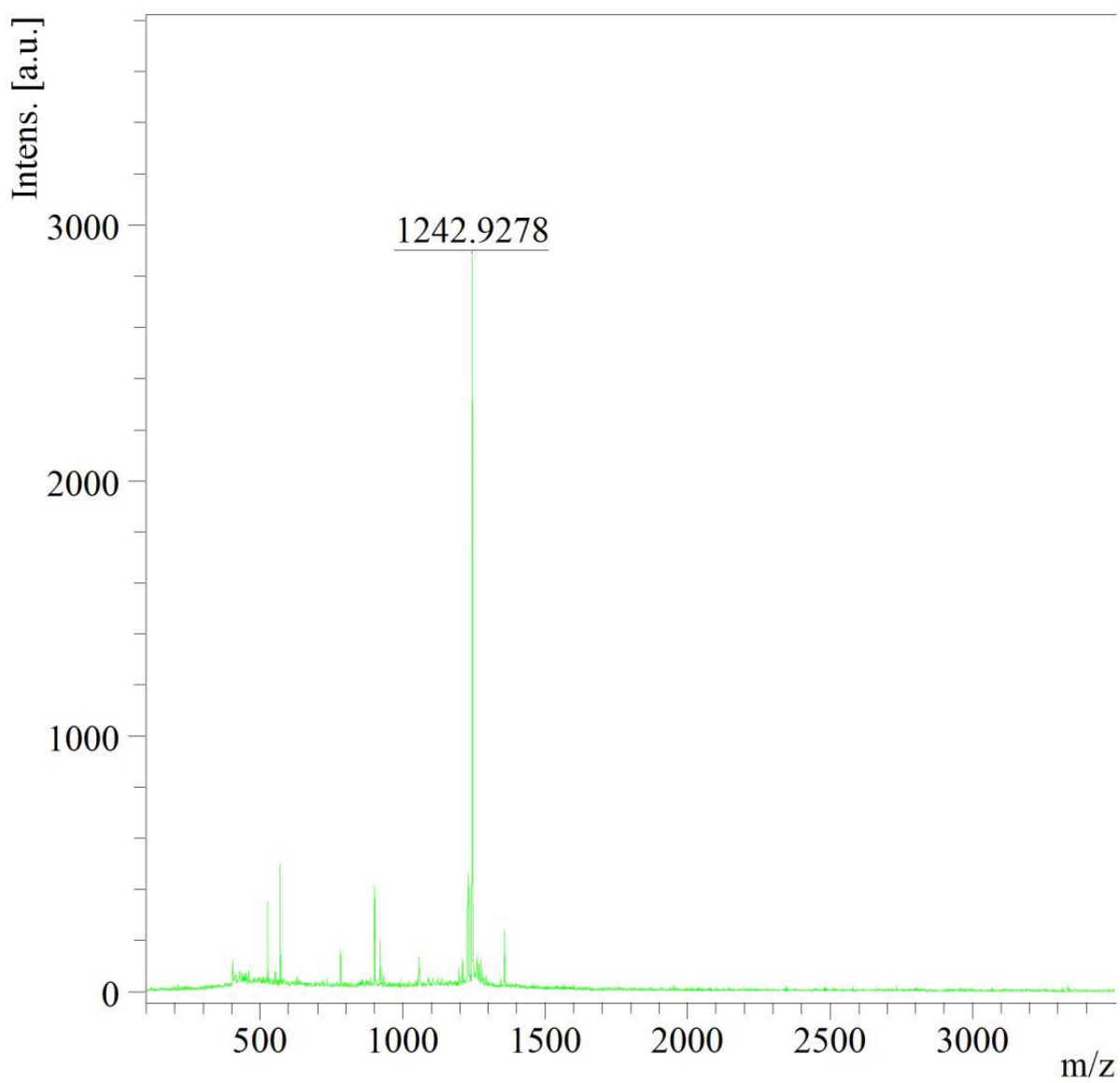


Figure S6. Oleyl-(WRH)₂: MALDI-TOF (m/z) C₆₄H₉₄N₁₈O₈ Calculated: 1242.7491, Found: 1242.9278 [M+2H]⁺.

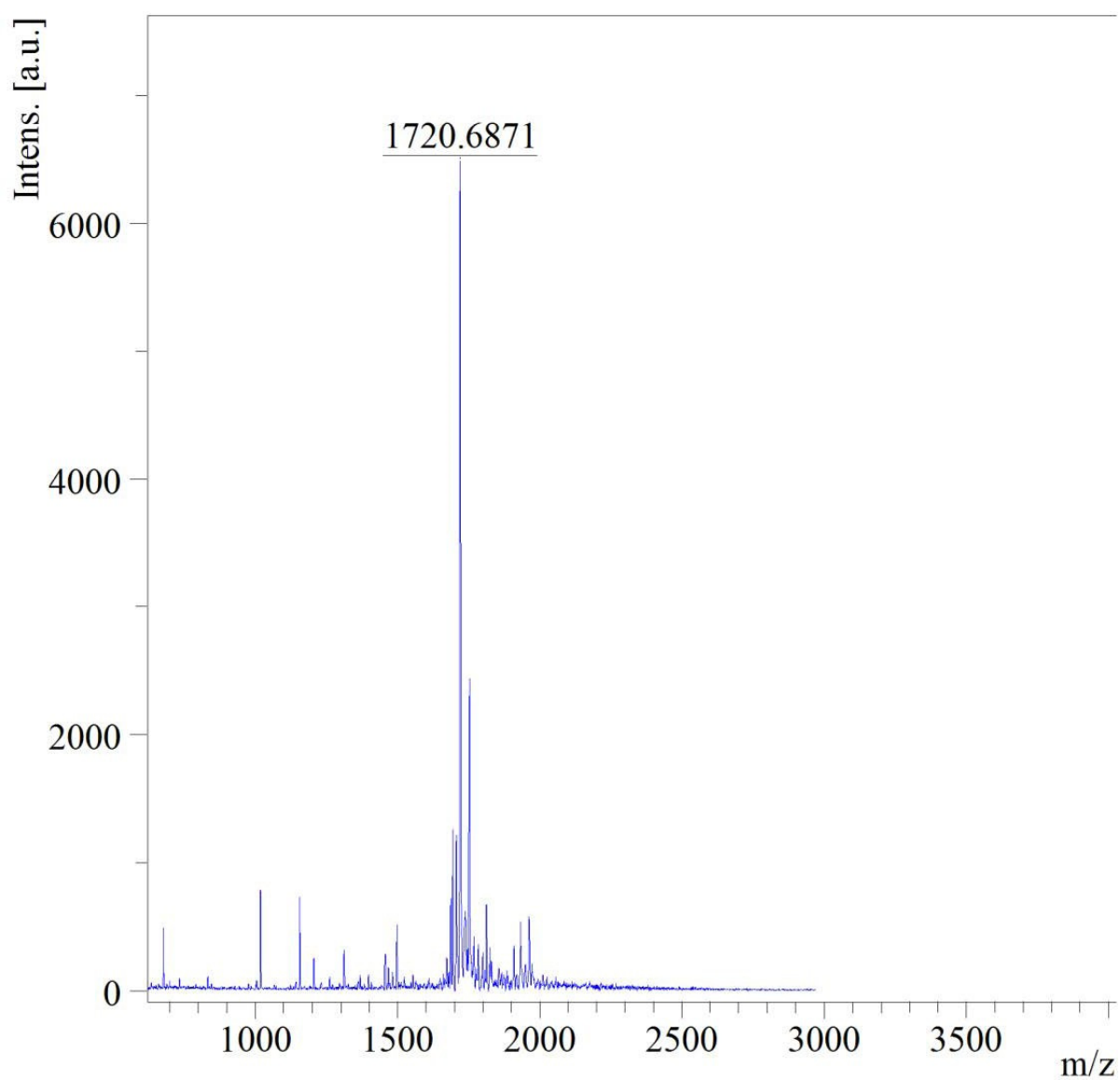


Figure S7. Oleyl-(WRH)₃: MALDI-TOF (m/z) C₈₇H₁₂₂N₂₇O₁₁ Calculated: 1720.9812, Found: 1720.6871 [M+H]⁺.

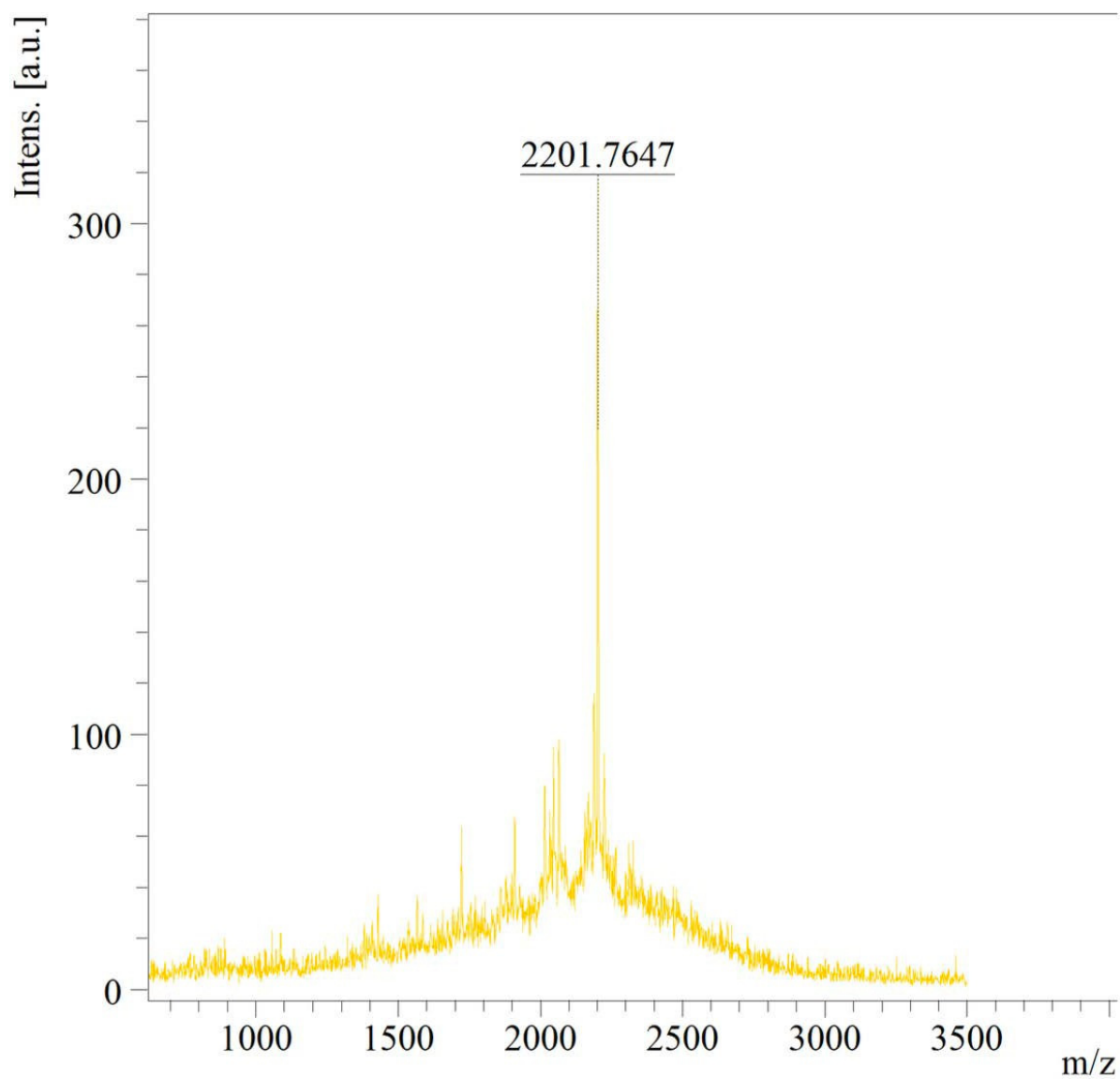


Figure S8. Oleyl-(WRH)4: MALDI-TOF (m/z) $C_{112}H_{152}N_{36}O_{14}$ Calculated: 2201.2278, Found: 2201.7647 $[M+2H]^+$.

Analytical HPLC Purification Analysis

The purity of the most efficient peptides (WRH)₃, (WRH)₄, oleyl-(WRH)₃, and oleyl-(WRH)₄ was determined using the reverse phase analytical HPLC method at a flow rate of 0.4 mL/min on Shimadzu (LC-20ADXR) with a gradient system of water with 0.1% Formic Acid (solvent A) and acetonitrile with 0.1% Formic Acid (solvent B), using (Phenomenex Luna, 4 μ m C18 150 $\times$ 4.6 mm HPLC Column).

Time	0.01	5.0	15.0	25.0	28.0	33.0	33.0	38.0
% Solvent B	5	5	20	70	95	95	5	5

HPLC CHROMATOGRAMS

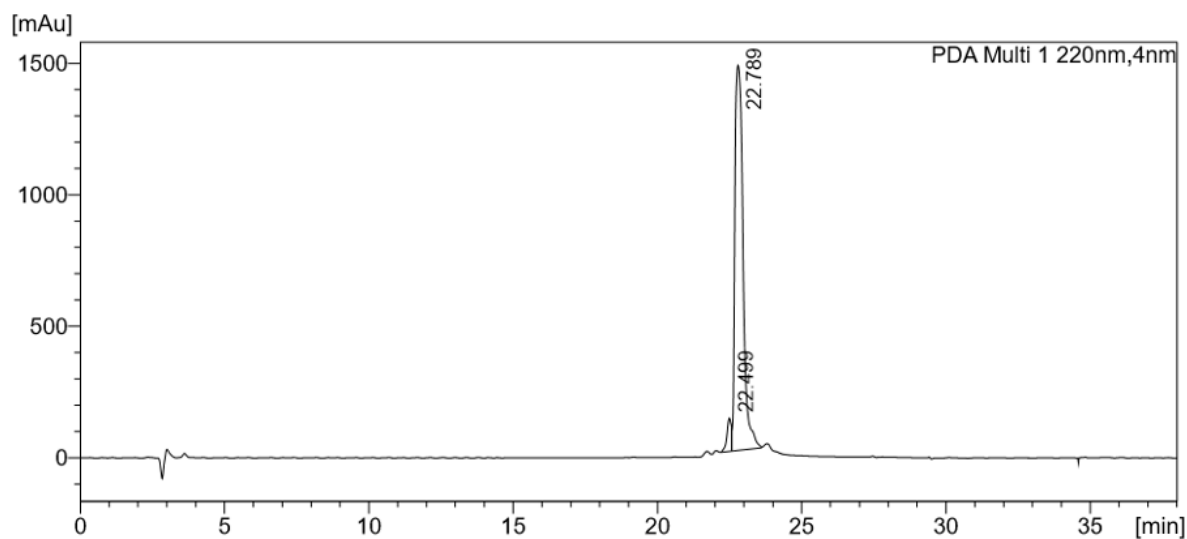


Figure S9. Analytical HPLC chromatogram of (WRH)₃

Peptide	(WRH) ₃
Pump A	0.1% Formic Acid in 100% Water
Pump B	0.1% Formic Acid in 100% Acetonitrile
Total Flow	0.4 ml/min
Retention Time	22.789 min
% Purity	95.741

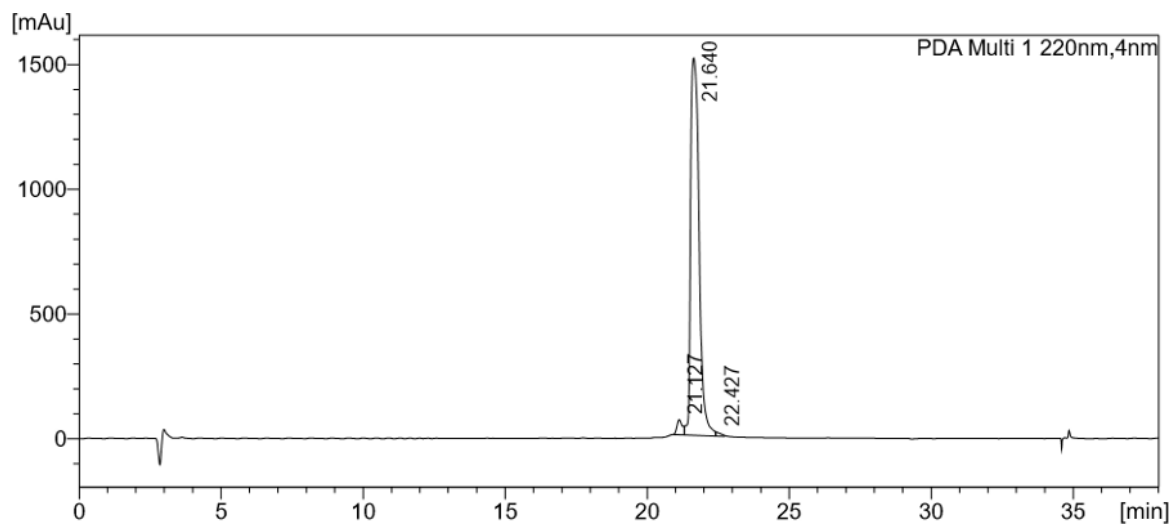


Figure S10. Analytical HPLC chromatogram of (WRH)₄.

Peptide	(WRH) ₄
Pump A	0.1% Formic Acid in 100% Water
Pump B	0.1% Formic Acid in 100% Acetonitrile
Total Flow	0.4 ml/min
Retention Time	21.640 min
% Purity	96.495

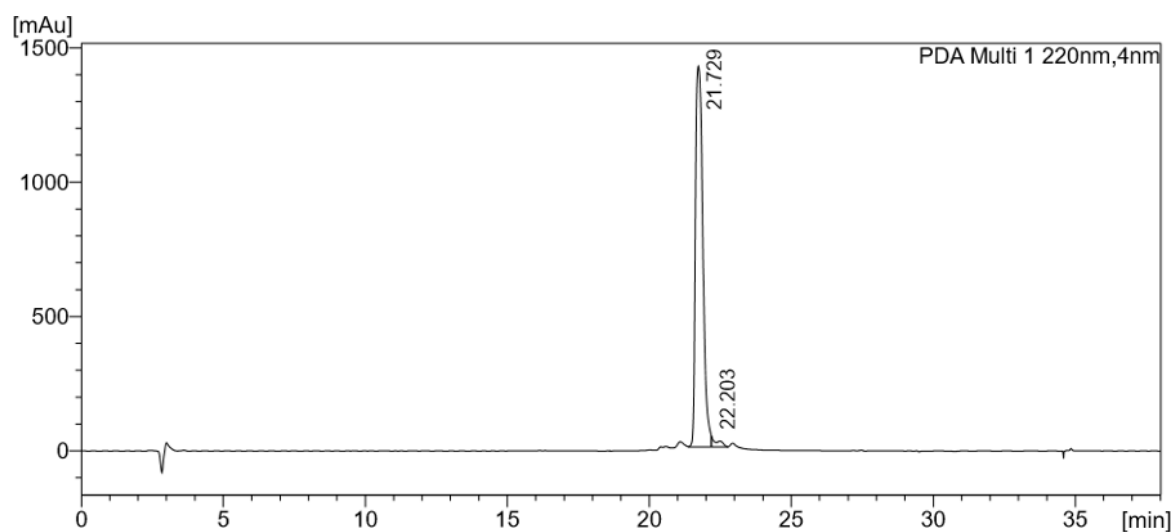


Figure S11. Analytical HPLC chromatogram of Oleyl-(WRH)₃.

Peptide	Oleyl-(WRH) ₃
Pump A	0.1% Formic Acid in 100% Water
Pump B	0.1% Formic Acid in 100% Acetonitrile
Total Flow	0.4 ml/min
Retention Time	21.729 min
% Purity	97.318

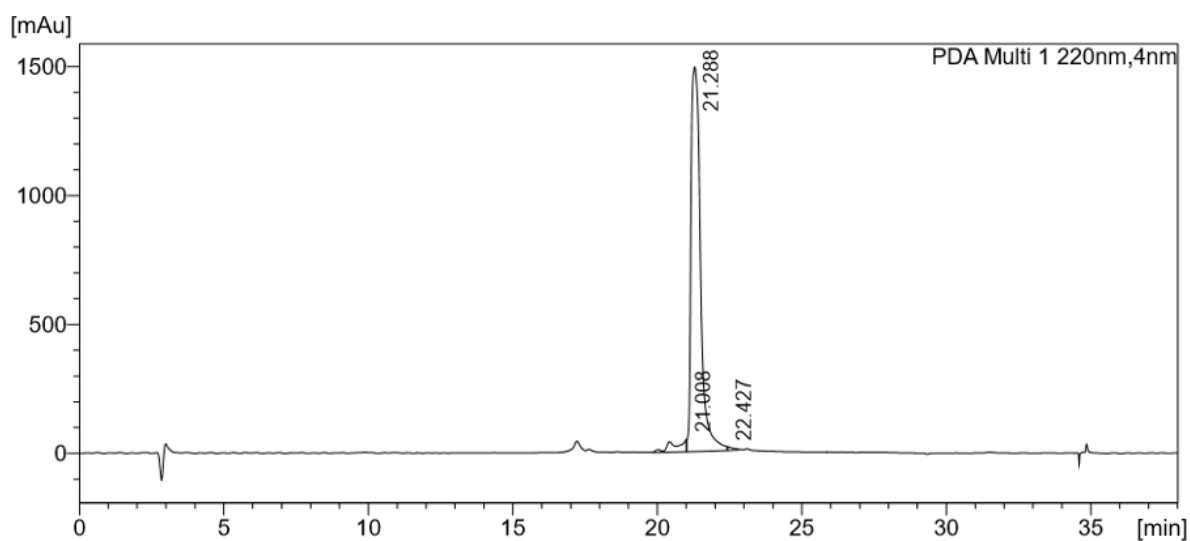


Figure S12. Analytical HPLC chromatogram of Oleyl-(WRH)₄.

Peptide	Oleyl-(WRH) ₄
Pump A	0.1% Formic Acid in 100% Water
Pump B	0.1% Formic Acid in 100% Acetonitrile
Total Flow	0.4 ml/min
Retention Time	21.288 min
% Purity	95.359