PEPTIDE COA TEST

Analytical Testing Laboratory
7271 Engle Rd Unit 201A, Middleburg Heights, OH 44130
sonic-laboratories.com

# CERTIFICATE OF ANALYSIS

COA #: **SD20260804_016_SS31-50**

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| **Client** | Omega Labz | **Accession #** | SD20260804_016 |
| **Compound** | SS-31 (Elamipretide) | **Date Received** | 08/04/2026 |
| **Molecular Formula** | C32H49N5O5 | **Date Reported** | 08/07/2026 |
| **Counter Ion / Salt** | NA | **Appearance** | White lyophilized powder |
| **Labeled Quantity** | 50 mg | **Sample Form** | Lyophilized Vial |
| **Lot / Batch #** | SS7586 | **Storage** | Room Temp |
| **CAS Number** | 736992-21-5 | **Crimp Color** | Blue |

**All Chemical Analysis Performed by LC-MS/MS**

## ANALYTICAL RESULTS

| Test / Analysis | Method | Specification | Result | Status |
|---|---|---|---|---|
| Identity (Mass Confirmation) | LC-MS/MS | Matches reference mass | SS-31 (Elamipretide) | **Pass** |
| Purity | LC-MS/MS | ≥ 95.0% | 99.49% | **Pass** |
| Net Peptide Content | LC-MS/MS | Report value | 52.64 mg | **Pass** |
| Observed Molecular Mass | LC-MS | Within ± 1.0 Da | 640.7 [M+H] | **Pass** |
| Theoretical Molecular Mass | Reference | — | 639.8 g/mol (free base) | **Pass** |
| Related Substances / Impurities | LC-MS/MS | Report value | Not Detected | **Pass** |
| Residual Solvents | LC-MS/MS | Report value | Not Detected | **Pass** |

John Humes, MS. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 08/07/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/07/2026

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# ANALYTICAL DATA

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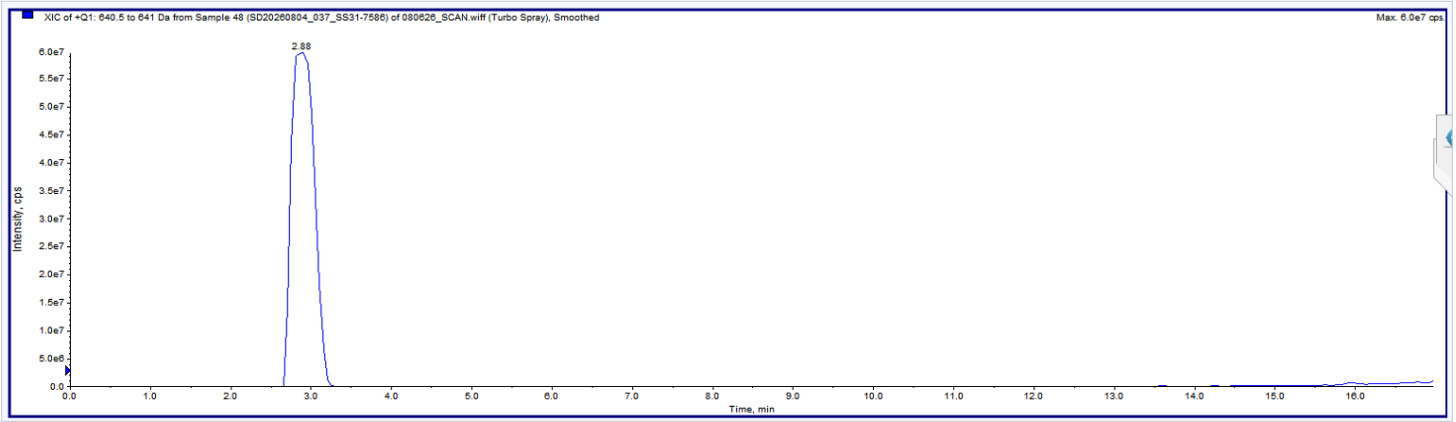
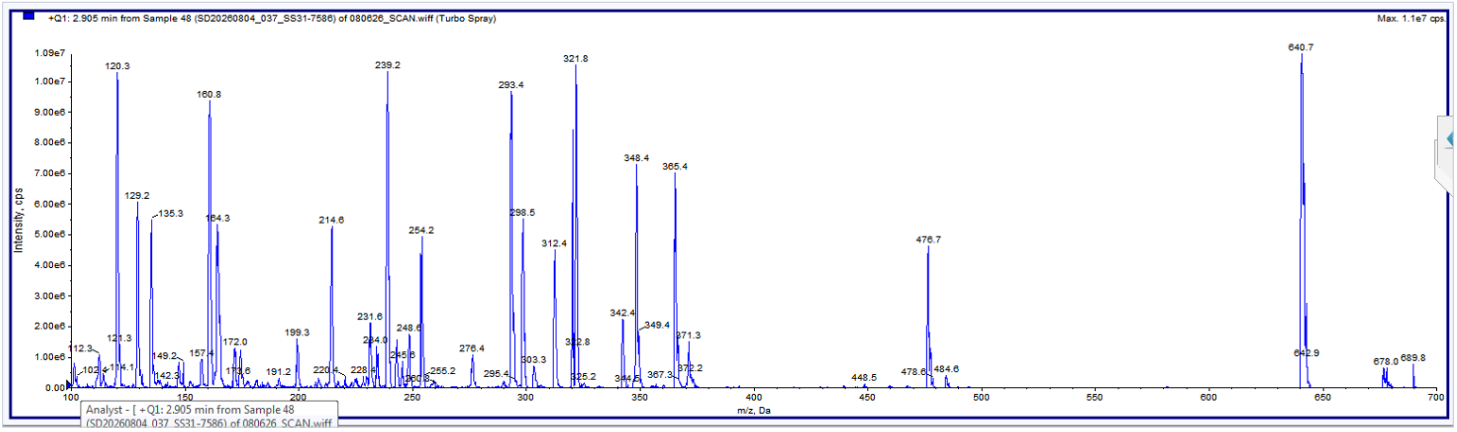
## CHROMATOGRAM




## MASS SPECTRUM (LC-MS)

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# ANALYTICAL INTERPRETATION

### Chromatogram

Retention Time Match

### Mass Spectrum (LC-MS)

Identity (LC-MS, Q1 scan – SS-31):

A positive-mode Q1 full scan of the SS-31 sample shows a precursor ion envelope consistent with the expected charge-state distribution for Elamipretide (MW ≈ 639.8Da). Dominant ions are observed at approximately m/z640.7 (+1), 321.8 (+2), and 214.6 (+3), representing the characteristic multiply charged isotopic pattern of SS-31 under validated LC-MS conditions. The observed mass profile aligns with the theoretical precursor ion distribution within established tolerance limits, confirming analyte identity.

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