PEPTIDE COA TEST

Analytical Testing Laboratory
7271 Engle Rd Unit 201A, Middleburg Heights, OH 44130
sonic-laboratories.com
Verify at sonic-laboratories.com/coa-lookup **Code: E5XPGRVA**

CERTIFICATE OF ANALYSIS

COA #: **SD20260804_019_TZ10**

SAMPLE INFORMATION

Client	Peptide COA Test LLC	**Accession #**	SD20260804_019
Compound	Tirzepatide	**Date Received**	08/04/2026
Molecular Formula	C225H348N48O68	**Date Reported**	08/07/2026
Counter Ion / Salt	NA	**Appearance**	White lyophilized powder
Labeled Quantity	10 mg	**Sample Form**	Vial
Lot / Batch #	850081251760	**Storage**	Room Temp
CAS Number	2023788-19-2	**Crimp Color**	Orange



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	Tirzepatide	**Pass**
Purity	LC-MS/MS	≥ 95.0%	99.63%	**Pass**
Net Peptide Content	LC-MS/MS	Report value	10.54 mg	**Pass**
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1204 [M+4M]	**Pass**
Theoretical Molecular Mass	Reference	—	4813.45 Da	**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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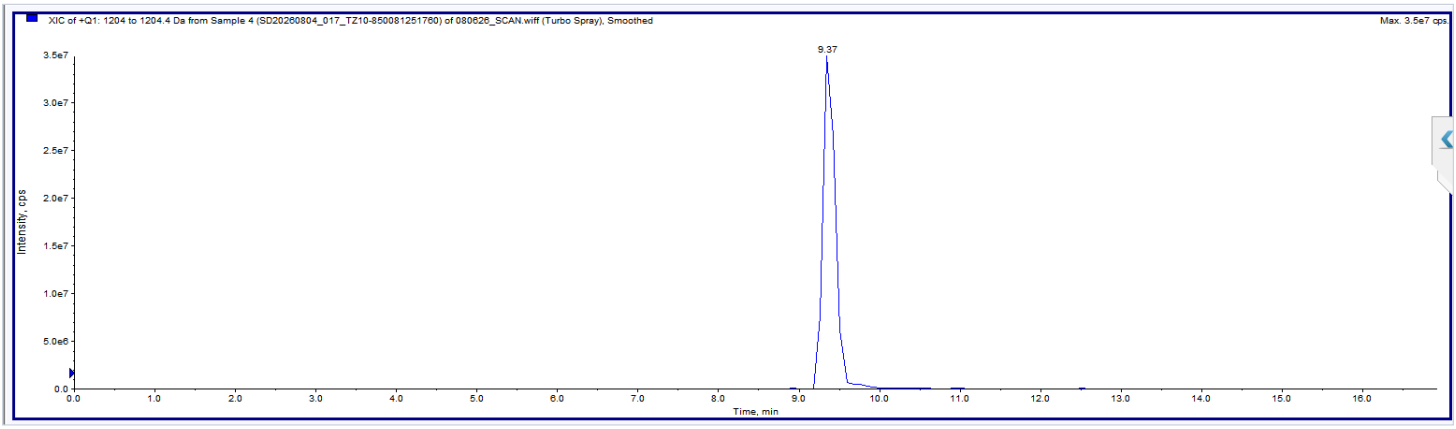
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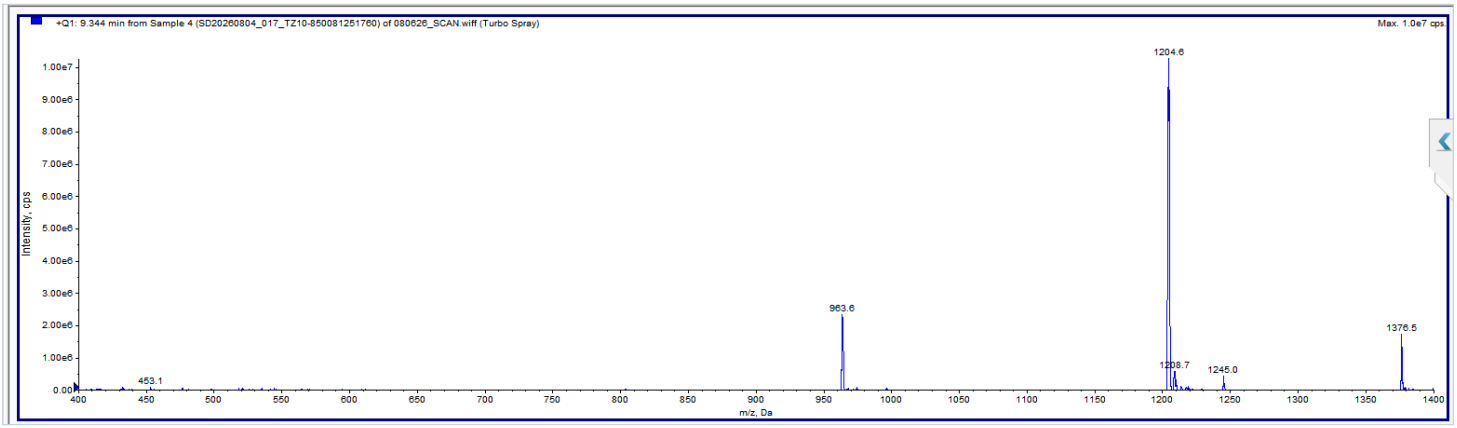
ANALYTICAL DATA

COA #: **SD20260804_019_TZ10**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Identity (LC-MS, Q1 scan – Tirzepatide):

A positive-mode Q1 full scan acquired at 9.34min from the Tirzepatide sample shows a dominant precursor ion envelope centered around m/z1204.6, with supporting peaks at 983.6, 1208.8, 1245.0, and 1376.5. These ions correspond to the expected multiply charged isotopic and adduct distribution of Tirzepatide under validated LC-MS conditions. The observed mass profile and charge-state pattern match the theoretical precursor ion distribution within tolerance limits, confirming analyte identity in this sample.

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