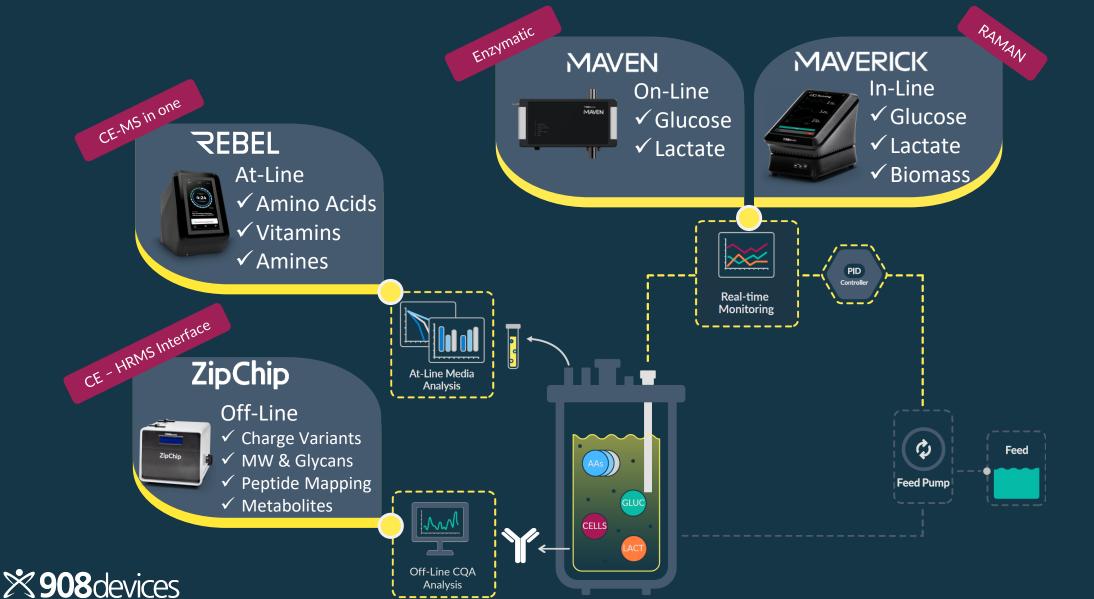


Analysis at the Speed of Life

With chemical analysis technology that crosses industry boundaries, our devices provide answers at the point-of-need in forensics, biopharmaceuticals, life science research, and more.

908 Devices Innovates in Analytics at the Point-of-Need for In-Depth Process Knowledge and Control



YOUR MASS SPEC'S SIDEKICK

ZipChip

WHAT IS ZIPCHIP?

- A Capillary Zone Electrophoresis (CZE) device.
- Couples to your mass spec, and mounts just like an ion source.
- Uses Microfluidic chip technology.
- Integrated direct ESI.

WHAT CAN ZIPCHIP DO?

- Protein Characterization
- Charge Variant Analysis (CVA) of mAbs
- Rapid Intact Mass Confirmation
- Subunit Analysis
- Peptide Mapping
- Small Molecule & Amino Acid Analysis
- Metabolomics
- Oligonucleotide Analysis



Mass Spec Compatibility:



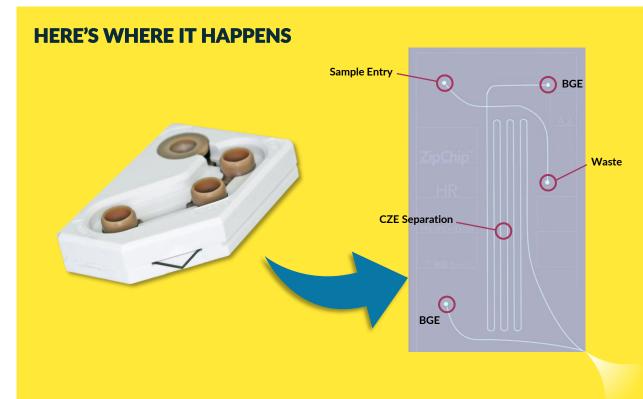






HERE'S WHAT YOU'LL NEED:

- A Mass Spectrometer
- A ZipChip device
- A reagent kit including:
 - Background Electrolyte (BGE)
 - Sample diluent
- A chip & a smile

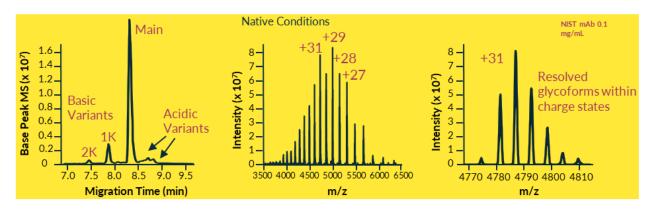


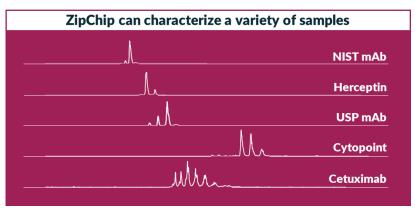


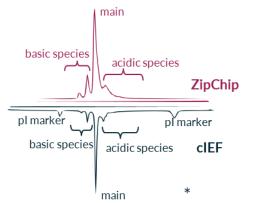
APPLICATION HIGHLIGHTS



Mass confirmation, post translational modification (PTM) assessment, glycoform characterization, and charge variant identification in one fast and thorough assay. Little-to-no sample prep or method development.

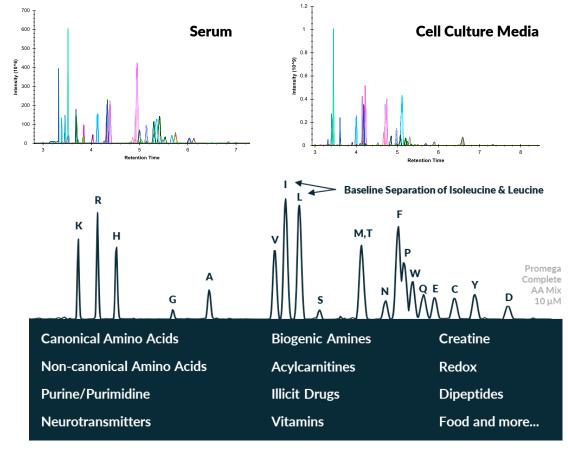






Fast and easy metabolomic, small molecule, and AA analysis

Rapidly analyze polar metabolites in biofluids, cell culture media, and beyond. No derivatization, easy sample prep, and straight forward data analysis.

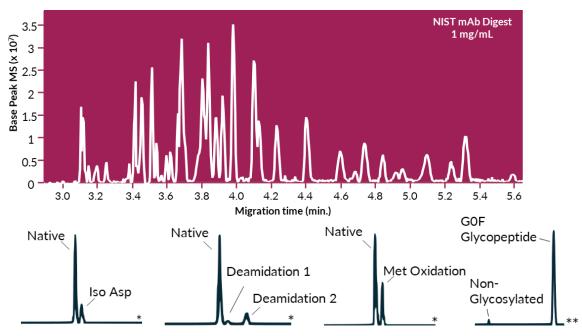




APPLICATION HIGHLIGHTS



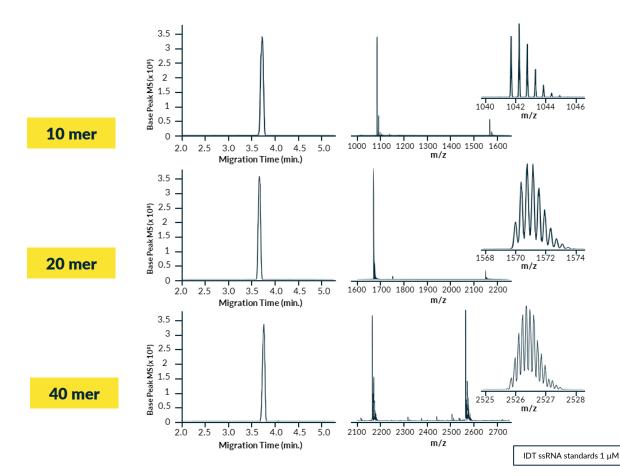
With an analysis time of around 10 minutes resulting in near-complete sequence coverage, ZipChip is a great solution for Peptide Mapping and MAM. Characterize PTMs such as isomerization, deamidation, oxidation, glycosylation, etc.



Separation	mAb Chain 1 (%)	mAb Chain 2 (%)	Bis (%)
ZipChip	98.0	97.2	98.0
UHPLC-MS	93.3	93.3	93.6

Oligonucleotide MS Analysis with no ion-pairing reagents!

Hassle-free molecular weight confirmation of oligos up to ~60-80 nucleotides long. No need for a dedicated MS system, or extensive cleaning post-oligo analysis since ion-pairing reagents are NOT needed.

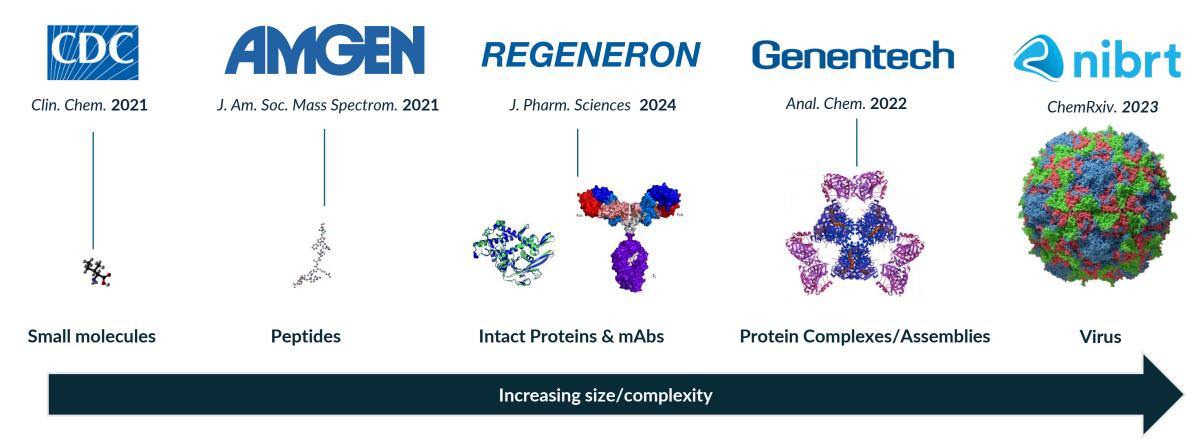




^{*} Adapted from: Dykstra et al. Journal of the American Society for Mass Spectrometry – March 2021 ** Adapted from: Cao et al. CASSS Poster – 2019

VERSATILE PLATFORM FOR BIOPHARMA APPLICATIONS





ZipChip's charge-based separation and free-in-solution migration are well suited to many different analytes.

Accurate measurement of glycation and glycoform distribution of mAbs using ZipChip Charge Variant Analysis

Hampus Engstroem¹, Scott Mellors², Erin Redman² ¹ 908 Devices Inc., Boston, MA, USA. ² 908 Devices Inc., Morrisville, NC, USA

Characterization of spent growth media and intracellular metabolites of CHO cells using a turnkey microchip CE-HRMS based workflow

Erin Redman¹, Awab Nehela², Stephanie Klaubert², Milla Neffling², Will Thompson¹ ¹ 908 Devices Inc., Morrisville, NC, USA. ² 908 Devices Inc., Boston, MA, USA.



HTTP://908DEVICES.COM/ZIPCHIP