





Disclaimers

Cautionary Note Regarding Forward-Looking Statements

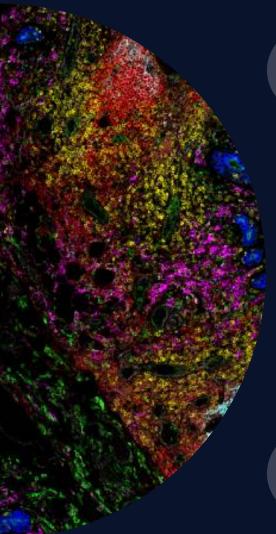
This presentation includes express and implied "forward-looking statements" that are based on management's beliefs and assumptions and on information currently available to management. All statements contained in this presentation other than statements of historical fact are forward-looking statements, including statements regarding our ability to develop, commercialize and achieve market acceptance of our current and planned products and services, our research and development efforts, revenues and earnings projections, and other matters regarding our business strategies, use of capital, results of operations and financial position, and plans and objectives for future operations. In some cases, you can identify forward-looking statements by terms such as "anticipate," "estimate," "expect," "intend," "may," "might," "plan," "project," "will," "would," "should," "could," "can," "believe," "predict," "potential," "continue," "ongoing" or the negative of these terms, and similar expressions intended to identify forward-looking statements. However, not all forward-looking statements contain these identifying words. By their nature, these statements are subject to numerous risks and uncertainties, including factors beyond our control, that could cause actual results, performance or achievement to differ materially and adversely from those anticipated or implied in the statements. For further information regarding these risks, uncertainties and other factors, you should read the "Risk Factors" section of our Quarterly Report on Form 10-Q filed for the period ended September 30, 2023 and our Annual Report on Form 10-K filed for the period ended December 31, 2022 and other documents we file with the Securities and Exchange Commission from time to time. You should not rely upon forward-looking statements as predictions of future events. Although our management believes that the expectations reflected in our statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances described in the forward-looking statements will be achieved or occur. Moreover, neither we, nor any other person, assumes responsibility for the accuracy and completeness of these statements Recipients are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date such statements are made and should not be construed as statements of fact. We undertake no obligation to update these forward-looking statements to reflect events or circumstances after the date hereof, to reflect the occurrence of unanticipated events or for any other reason, except as required by law.

Market Industry Data

Projections, estimates, industry data and information contained in this presentation, including the Company's general expectations and market position and market opportunity, are based on information from third-party sources and management estimates. Although the Company believes that its third-party sources are reliable, the Company cannot guarantee the accuracy or completeness of its sources. The Company's estimates are derived from third-party sources, publicly available information, the Company's knowledge of its industry and assumptions based on such information and knowledge. The Company's estimates have not been verified by any independent source. All of the projections, estimates, market data and industry information used in this presentation involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such information. In addition, projections, estimates and assumptions relating to the Company's and its industry's future performance are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including, but not limited to, those described above, that could cause future performance to differ materially from the Company's expressed projections, estimates and assumptions or those provided by third parties.

Akoya is Leading the Spatial Biology Revolution

Transforming Discovery to Diagnostics





Best-in-class platforms

Fastest and most robust spatial biology platforms with whole-slide and single-cell imaging



Complete end-to-end solutions

Instruments, reagents, software and services



Emerging clinical platform for next generation patient care

Expanding clinical partnerships to drive precision medicine and companion diagnostics



Established market leader with largest installed base

~1,200 instruments installed worldwide*

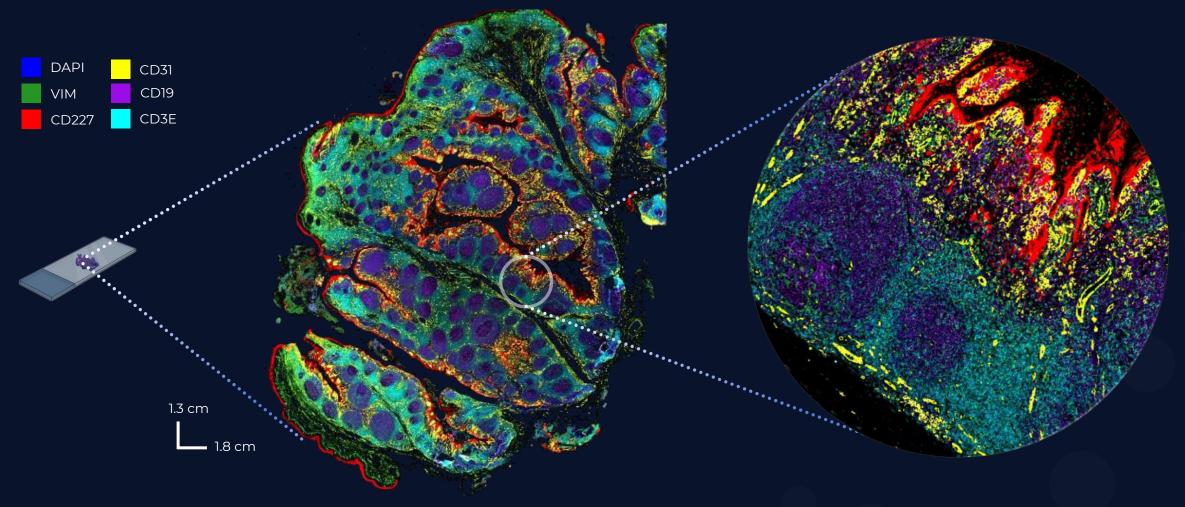


Greatest number of high-impact publications

>1,160 total publications citing Akoya's technologies*

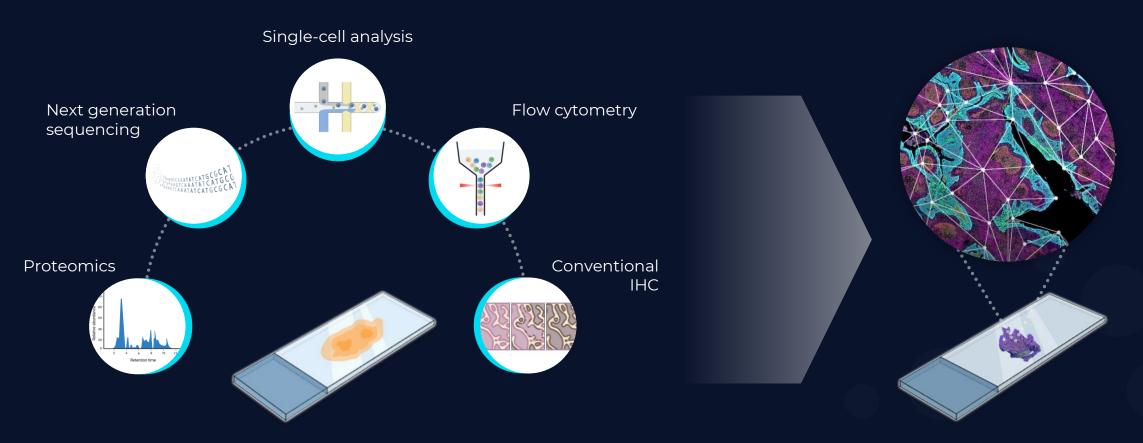
Akoya's Spatial Biology Platforms - Transforming Tissue Analysis

Rapidly Mapping Whole Tissue at Single-cell and Subcellular Resolution



Identifying the spatial patterns and relationships that drive disease biology and response to therapy

Current Tissue Analysis Methods Migrating to Spatial



Current tissue analysis methods deliver no or very limited spatial information while destroying the tissue

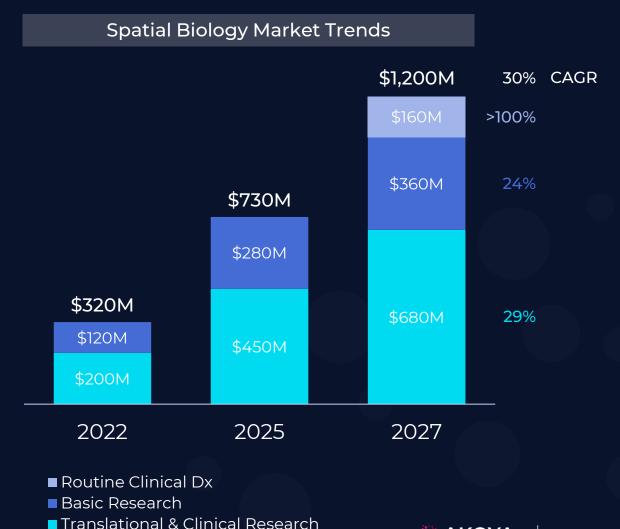
Spatial Phenotyping:

Understanding biomarkers in tissue context while preserving the tissue

Drivers of Spatial Biology Market Growth

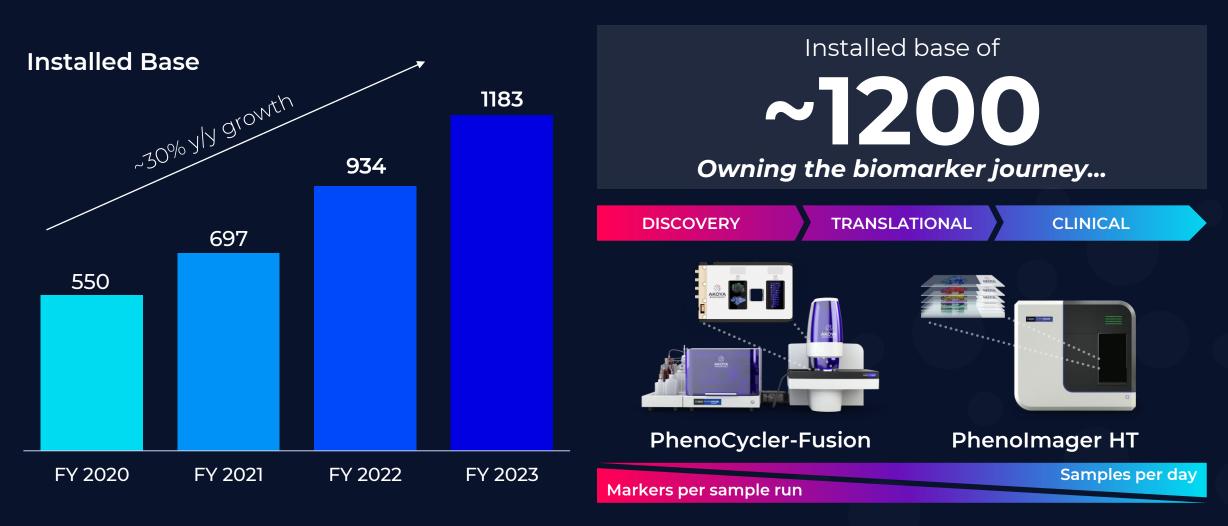
DeciBio Projects < 10% of TAM to be Realized by 2027

- Spatial biology market expected to grow 30% annually in the next few years
- Translational & clinical research expected to make up the largest market segment
- Routine clinical Dx expected to be the fastest growing market segment
- Multi-plex immunofluorescence (mIF) is a key technology growth driver



Largest and Rapidly Growing Installed Base in the Industry

Products Across Discovery, Translational and Clinical Markets



Accelerating and Market Leading Publication Volume

Akoya's Technology Consistently Featured in Leading Journals for Groundbreaking Findings



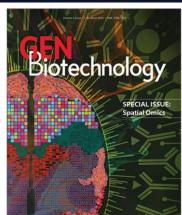
1160+

total publications featuring Akoya's technology

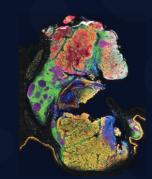










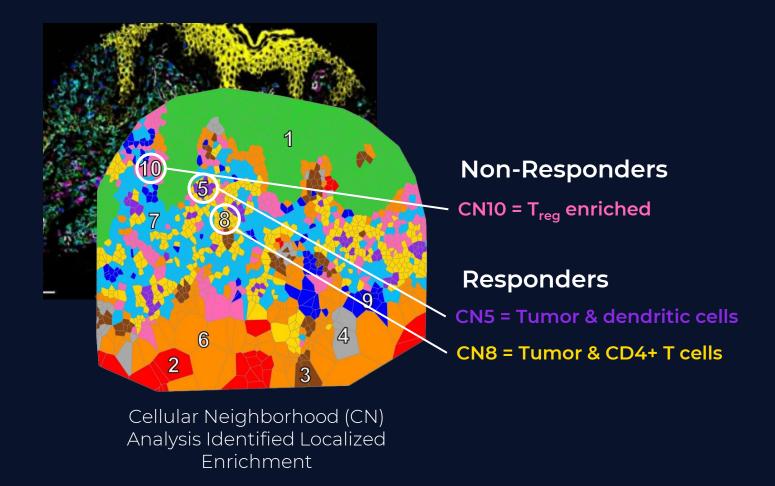


Featured Publication

First published 100+ protein plex whole-slide image, comprehensively mapping the spatial proteome of head and neck squamous cell carcinoma, on PhenoCycler-Fusion¹

Spatial Biology Markers Predicting Response to Therapy

Predicts Response to PD-1 Blockade in Cutaneous T Cell Lymphoma (CTCL)



- SpatialScore derived from spatial relationship b/w PD-1+CD4+ T cells, tumor cells and immunosuppressive Tregs.
- SpatialScore demonstrates high correlation with response to pembrolizumab in CTCL
- PhenoCycler-Fusion high-plex data used to develop a targeted panel for larger cohort studies on the PhenoImager HT

ACR-368 OncoSignature Assay – a New Era of Precision Medicine

First-of-its-kind Spatial Signature CDx Assay to Identify Patients for a Targeted Oncology Agent







Acrivon and Akoya partnering on ongoing clinical development and future commercial use of the ACR-368 OncoSignature Assay

Acrivon granted Breakthrough Device Designation: ACR-368 OncoSignature Assay + PhenoImager HT + Akoya Software for the identification of ovarian cancer patients who may benefit from ACR-368

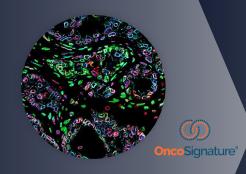
Acrivon granted Fast Track Designation: Investigation of ACR-368 as monotherapy based on ACR-368

OncoSignature-predicted sensitivity in patients with platinum-resistant ovarian and endometrial cancer





Multiplex immunofluorescence CDx assay developed on PhenoImager HT



Acrivon's ACR-368 OncoSignature test, a drugtailored spatial signature assay



Patient screened using ACR-368 OncoSignature test to determine clinical treatment in Acrivon's registrational intent Phase 2 trial of ACR-368



Pending FDA approval, results of ACR-368 OncoSignature test used to assign therapy

Akoya and Acrivon will co-develop, validate and **EXCLUSIVELY** commercialize the ACR-368 OncoSignature test

Akoya's Workflow – Owning the Biomarker Journey

Consistency and Continuous Improvements Drive Platform Utilization and Pull Through

PROBE & STAIN



Rapid Menu Expansion

- Consistent chemistries
- Ready-to-use panels and increasing plex
- New applications

IMAGE



Accelerating Workflows

- Consistent imaging methods
- Continuous speed improvements
- Workflow simplification

ANALYZE



Flexible Data Analysis

- Consistent image analysis methods
- Proprietary data compression
- Solutions serve every user need

PhenoCycler-Fusion 2.0 Platform

More Discoveries, Faster Than Ever — High-plex Panels for Comprehensive Coverage



IMMUNE PROFILING CORE

> IMMUNE ACTIVATION & PROLIFERATION MODULE



100+ Phenotypes



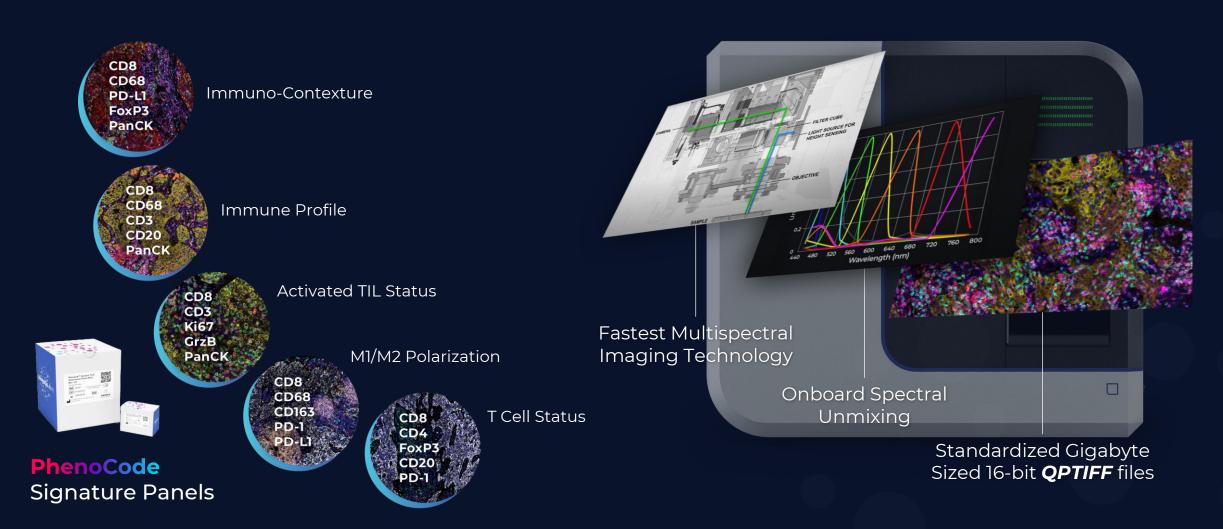
30+ Tissue Types



Multiple Species

Phenolmager HT 2.0 Platform

The Fastest End-to-end Solution for Immuno-Oncology Spatial Signature Development



Data Analysis Ecosystem Across Akoya's Workflows

Powerful Ultrahigh-Plex Analysis in the Cloud

Flexible Open Source

Machine Learning and Al

Leading Analysis Service Providers





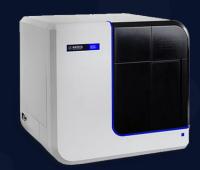






Large installed based and QPTIFF enables a growing ecosystem

Accessibility to cutting-edge analysis



Software partnerships offer **powerful data analysis solutions** to meet the **varying requirements** of our customers

High Value Partnerships Deliver Powerful New Solutions

Akoya Biosciences and Thermo Fisher Scientific Announce a License and Distribution Agreement to Deliver Spatial Multiomics Workflow

January 7, 2024

The Thermo Fisher Scientific ViewRNA technology combined with Akoya's market leading spatial biology solutions will enable rapid, whole-slide imaging of RNA and protein biomarkers

Akoya Biosciences Deploys the MaxFuse Algorithm Co-Developed by Dr. Garry Nolan and His Laboratory at Stanford University for Multiomic Integration of Spatial and Single-cell Data on the Enable Medicine Platform

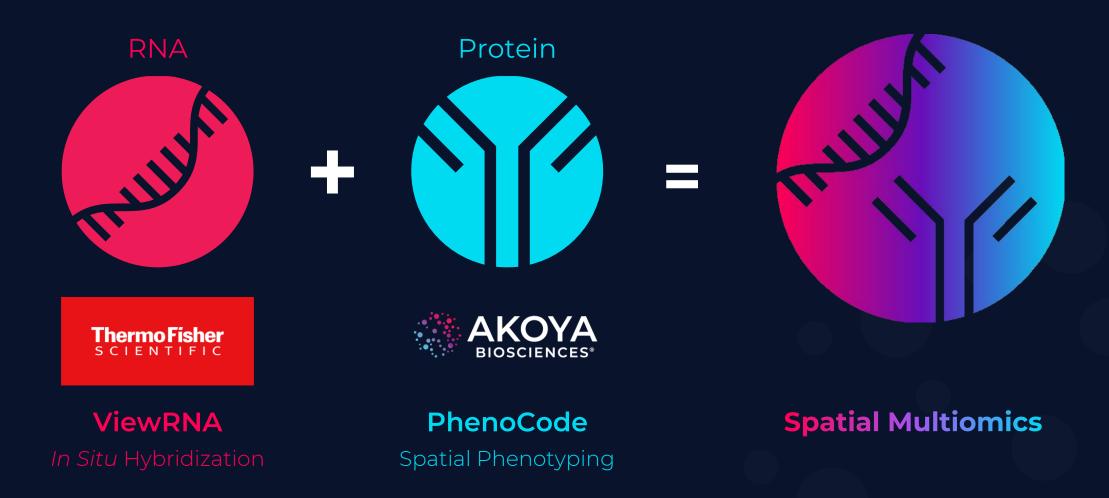
January 7, 2024

MaxFuse enables matching and integration of datasets from spatial proteomics, spatial transcriptomics, single-cell sequencing, or other modalities

Development and application of MaxFuse were described in two recent Nature publications

Akoya and Thermo Fisher to Deliver Leading Spatial Multiomics

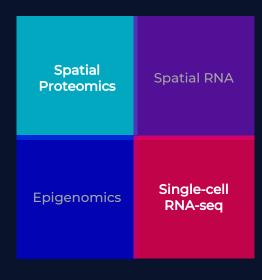
Streamlined Workflow for Rapid and Whole-slide Imaging of RNA and Protein Biomarkers



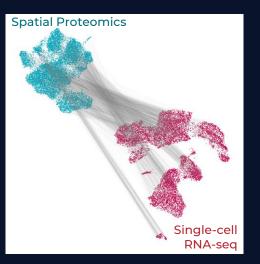
MaxFuse - Multiomic Integration of Spatial and Single-cell Data

Al Driven Digital Integration of Proteomic, Transcriptomic and Epigenomic Data on Same Tissue Types









MaxFuse algorithm uses spatial proteomic data to **infer spatial information** on single-cell RNA-seq data sets



Using spatial proteomic data to maximize the value of new and historical scRNA and epigenomic data

Rapidly Expanding Qualified CRO Service Provider Network

- Partnership with best-in-class CROs amplify the use of Akoya's platforms
- Qualification process ensures consistent and best practices across the network.



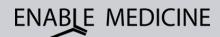


































Akoya's 2024 Strategic Priorities

Driving Operational Leverage and Gross Margin Improvements to Meet our Profitability Goals



Accelerate Pull Through

- Expand menu of applications
- Continuous platform improvements drive throughput
- Streamline data analysis and time to answer









Build Clinical IVD Menu

- Expand clinical trial participation leveraging our CLIA services lab and CRO partner network
- Rapidly grow CDx pipeline
- Advance clinical workflow and regulatory capabilities / readiness



Financial Overview

Q4 '23 Reported Revenue: **\$26.5 million**, 25% y/y growth

FY '23 Reported Revenue: **\$96.6 million**, 29% y/y growth

FY '24 Revenue Outlook: \$114-118 million, 18-22% y/y growth



Recurring revenue model

 Recurring reagent revenue from global installed base driving projected gross margin increase



Consistent growth profile

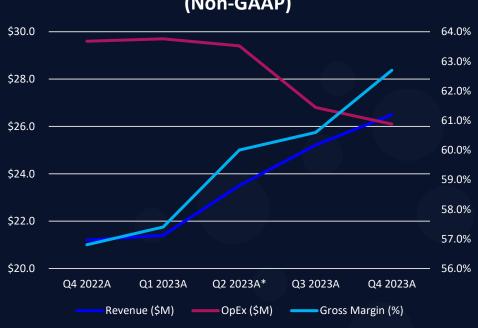
 Expanding installed base, menu, pull through and clinical lab services



Well-capitalized with path to profitability

- YE '23 cash & cash equivalents of \$83.1 million
- Projected operating cash flow breakeven by YE '24

Financial Performance Snapshot (Non-GAAP)



* See appendix for Q2 2023 reported GAAP to non-GAAP reconciliation

Akoya's New Scientific Advisory Board

Leading Experts in Innovation, Immunobiology and Immunotherapy



James Allison, Ph.D.

Chair of the Department of Immunology,
MD Anderson Cancer Center

2018 Nobel Prize Winner in Physiology or Medicine



Garry Nolan, Ph.D. (Chair)

Professor in the Department of Pathology,
Stanford University School of Medicine



Padmanee Sharma, M.D., Ph.D.

Professor in the Departments of Genitourinary
Medical Oncology and Immunology,
MD Anderson Cancer Center





Appendix

Q2 2023 Form 10-Q for Akoya Biosciences Inc. filed 08/08/2023

Q2 2023 GAAP to Non-GAAP Reconciliation				
		Non-GAAP adjustments		
	Reported	Reduction in	Inventory	
(\$ million)	GAAP	Force	Reserve	Non-GAAP
Revenue	\$23.5			\$23.5
Gross Margin	\$12.1		\$2.0	\$14.1
Gross Margin %	51.5%			60.0%
Op-Ex	\$31.4	(\$2.1)		\$29.3

Q2 2023 GAAP reported Gross Margin % was 51.5% (including a \$2.0 million charge from an inventory write down) and GAAP reported Op-Ex was \$31.4 million (including a \$2.1 million severance payment charge from a reduction in force).