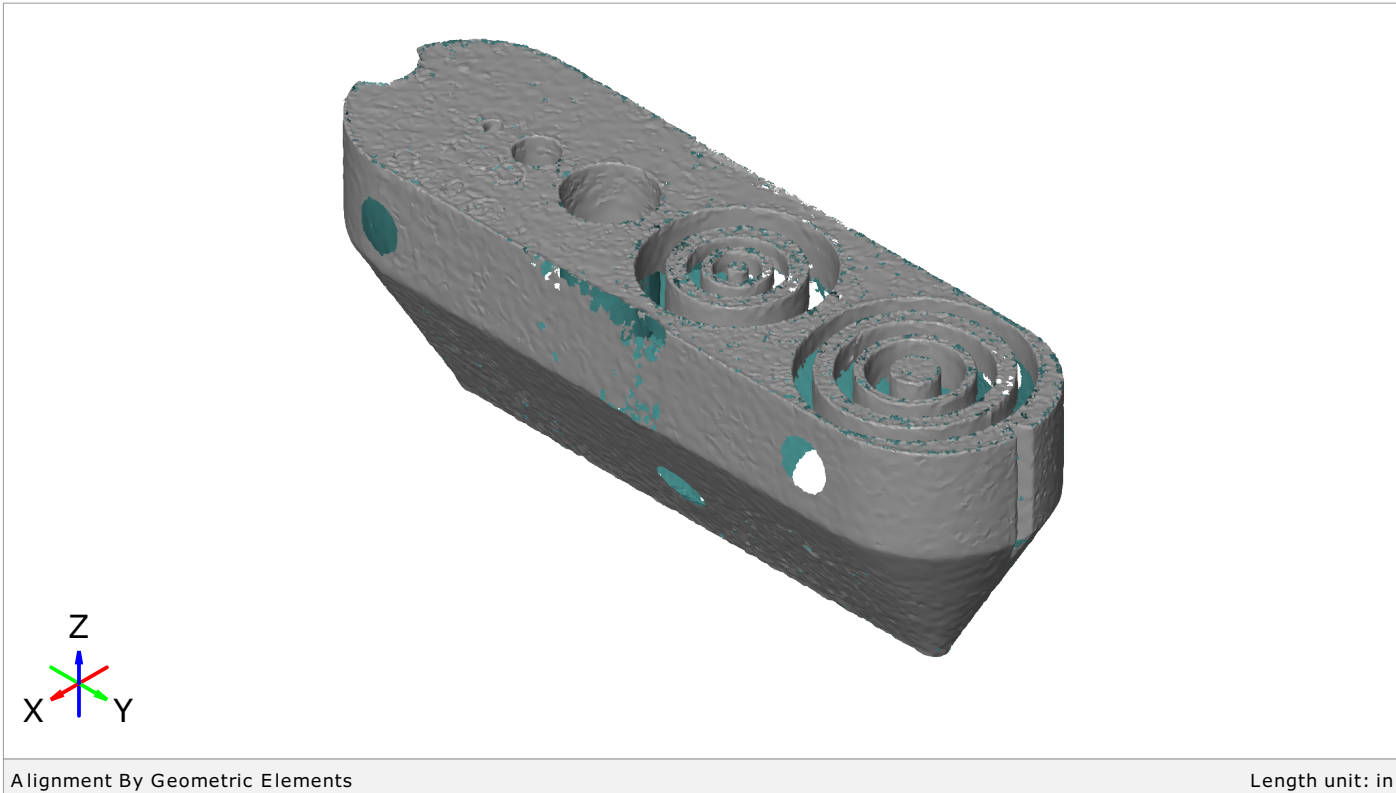


Contour Check Inspection Report

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



Inspector: John Ivester

Company: NASA

Department: EM42

Location: MSFC 4707-103

Date: 5/12/2022

Project: Blue Origin ACO

CAD Model: Contour Check part v4 (5)_RE

Scan Data: 9_0333_CC5_Segment1-5

Version: Version 2

Customer: Brian West, EM42

System: ATOS 5

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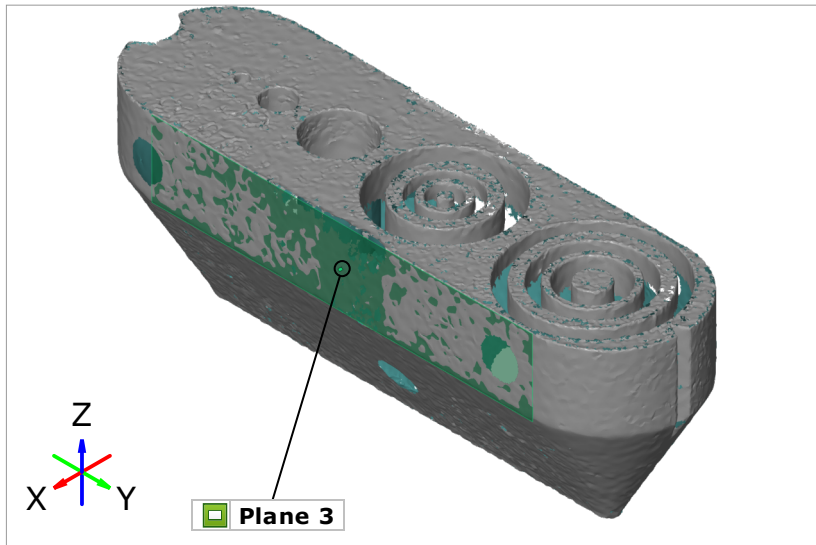
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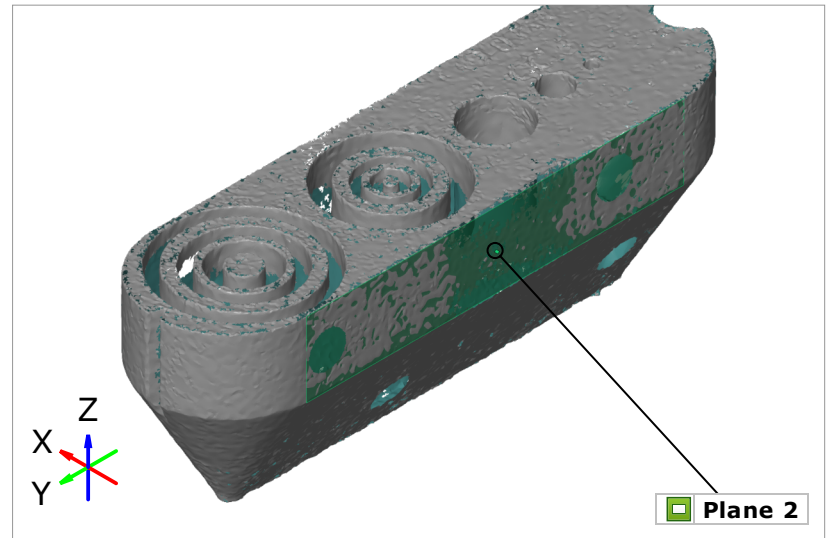
Mid Plane Generation

Fitted Plane

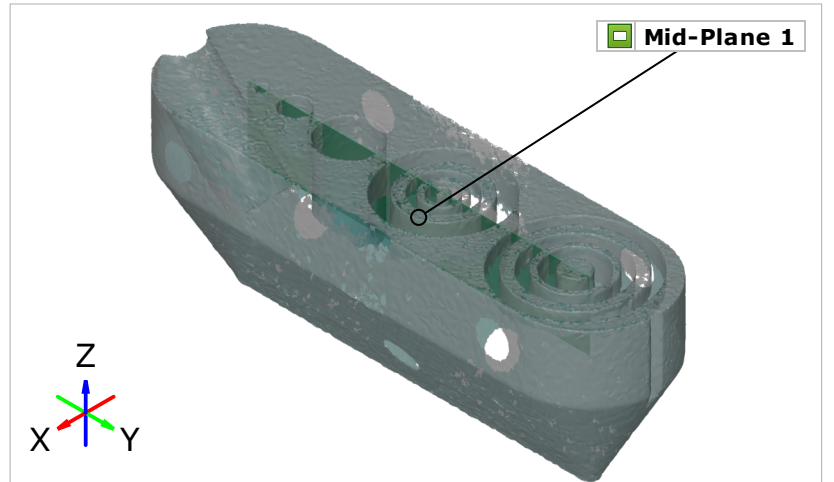


Fitted Plane

Deviation reference: 9_0333_CC5_Segment5

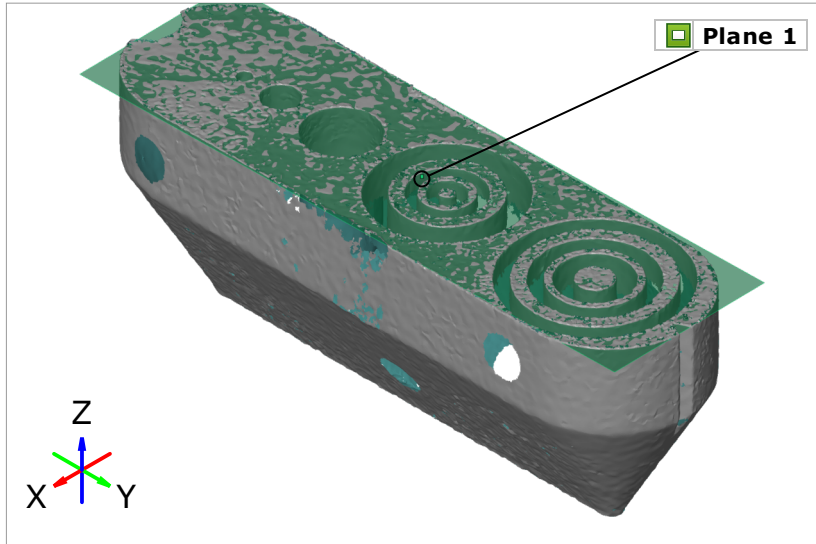


Averaged Plane



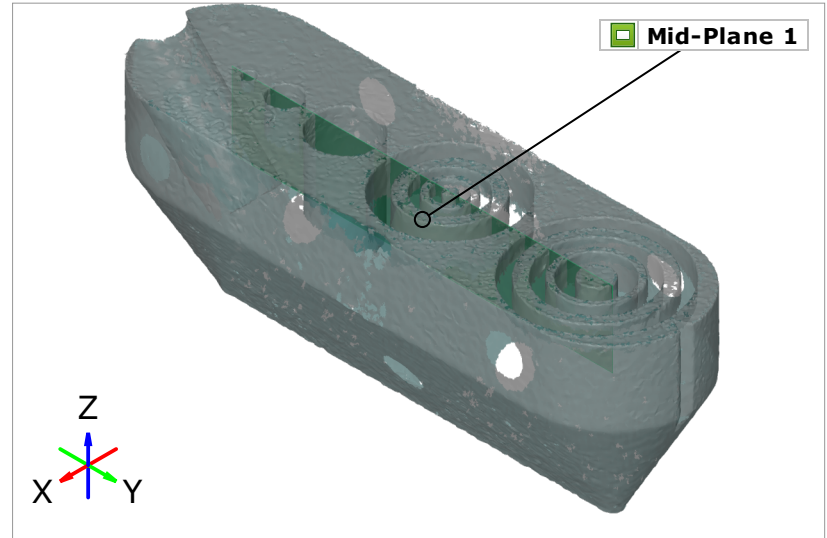
Geometric Alignment Scheme/Hierarchy

Primary Alignment Datum

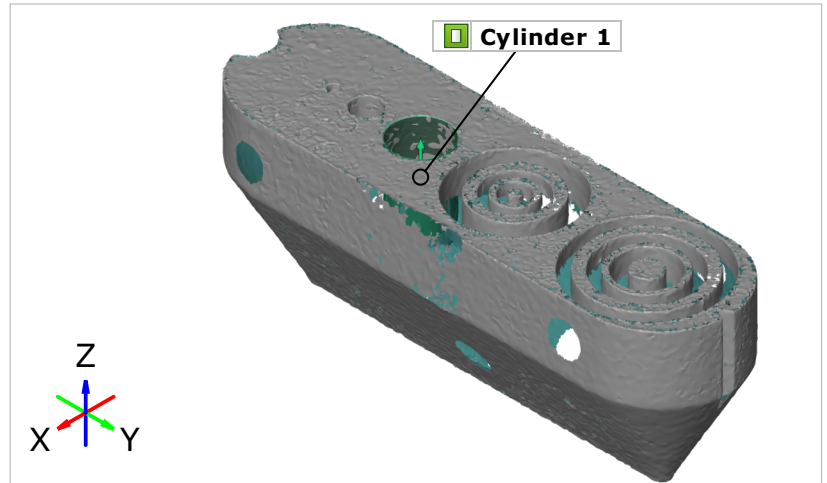


Secondary Alignment Datum

Deviation reference: 9_0333_CC5_Segment5



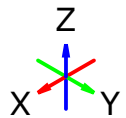
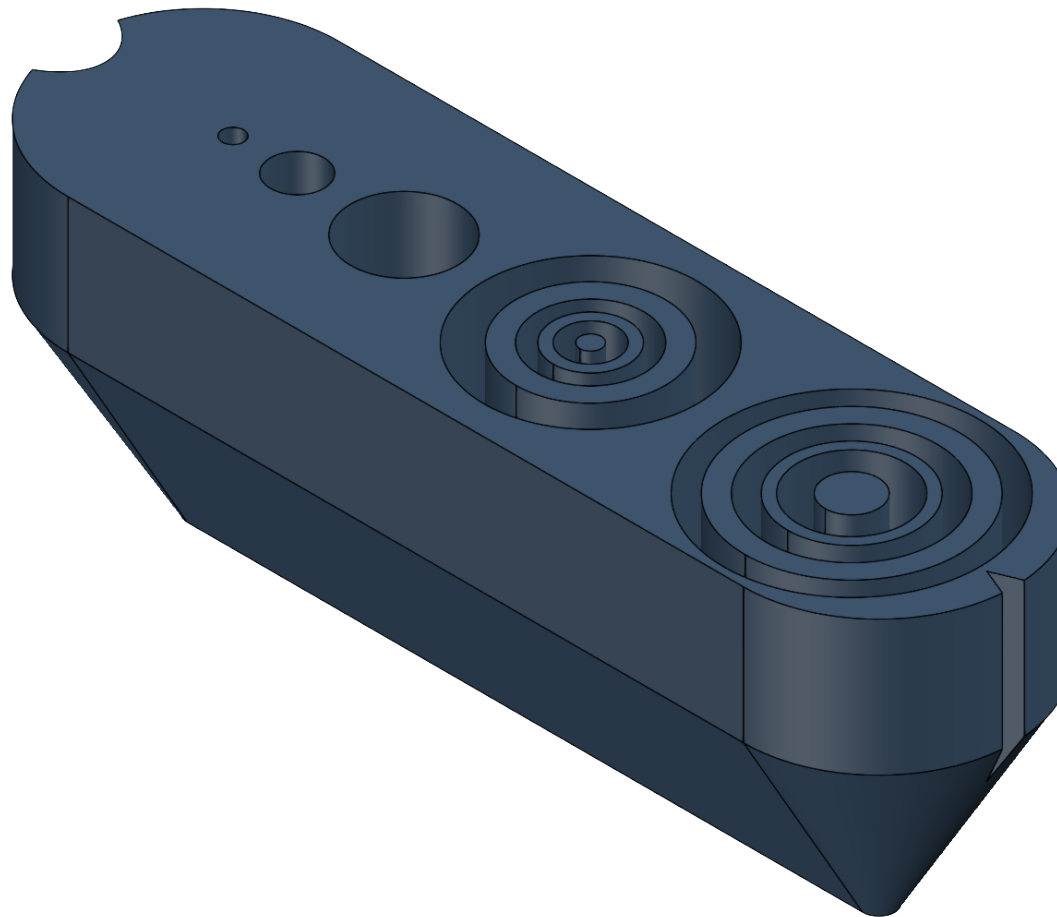
Tertiary Alignment Datum



CAD Model - Iso View

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5

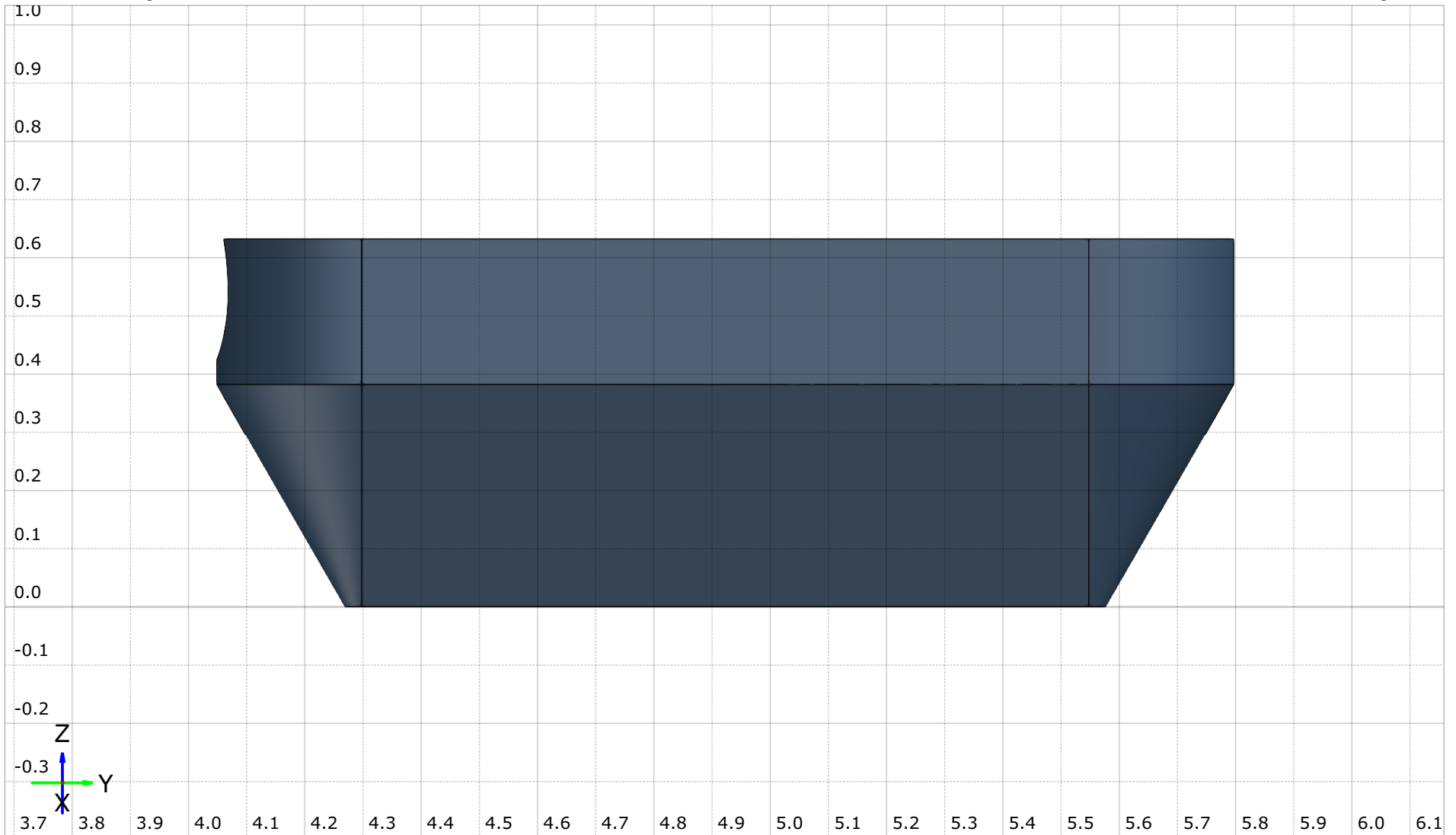


Length unit: in

CAD Model - Front View

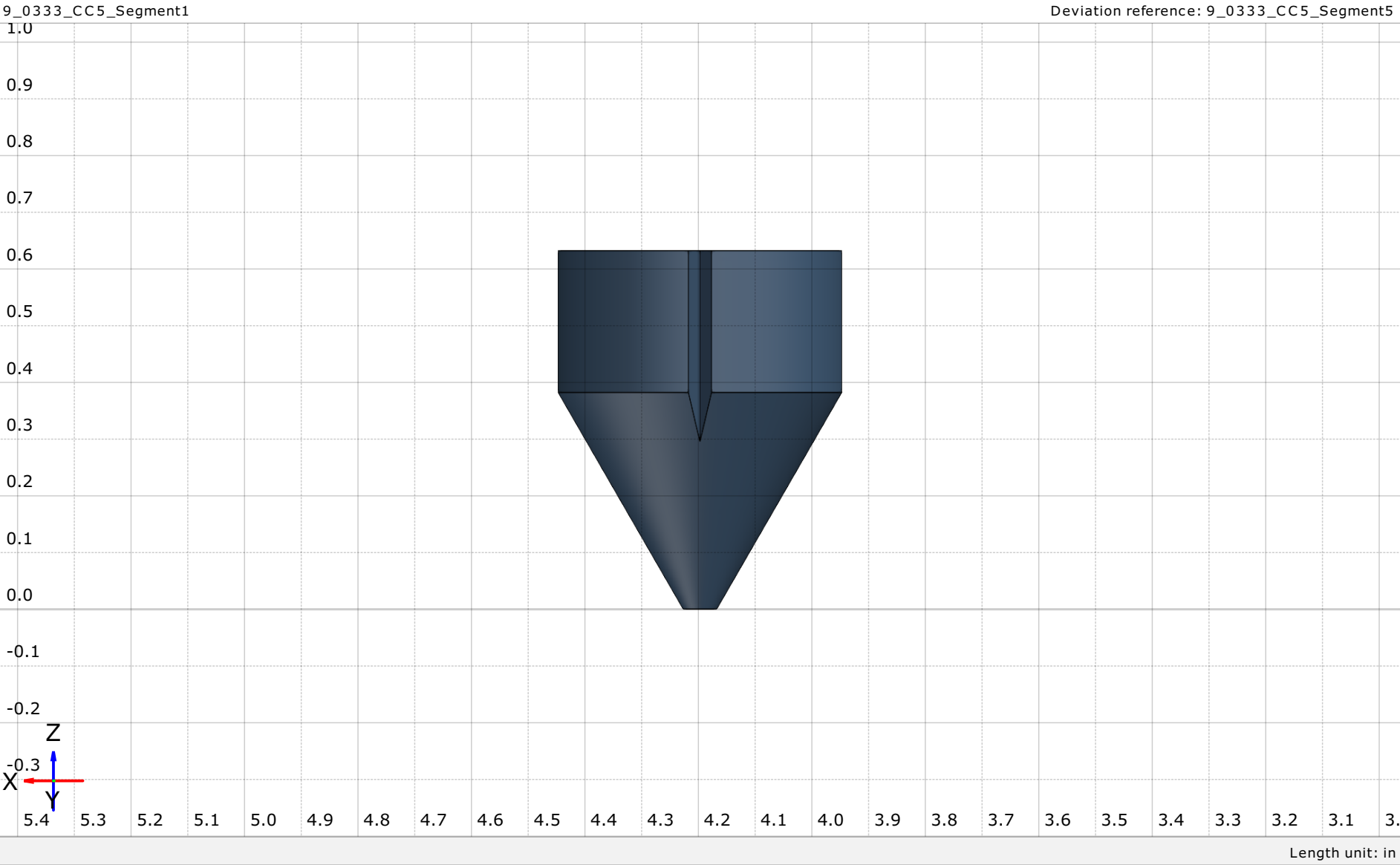
9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5

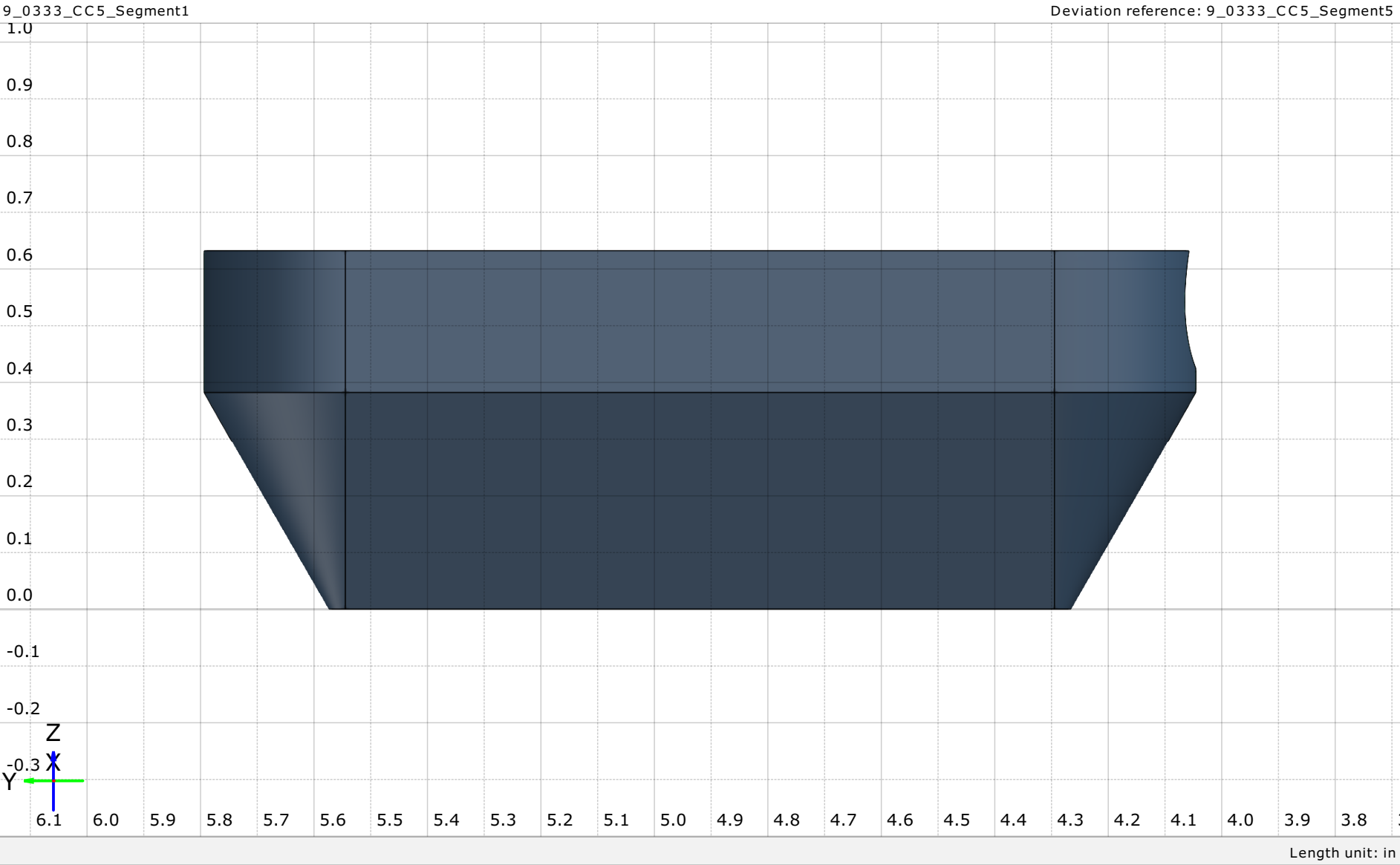


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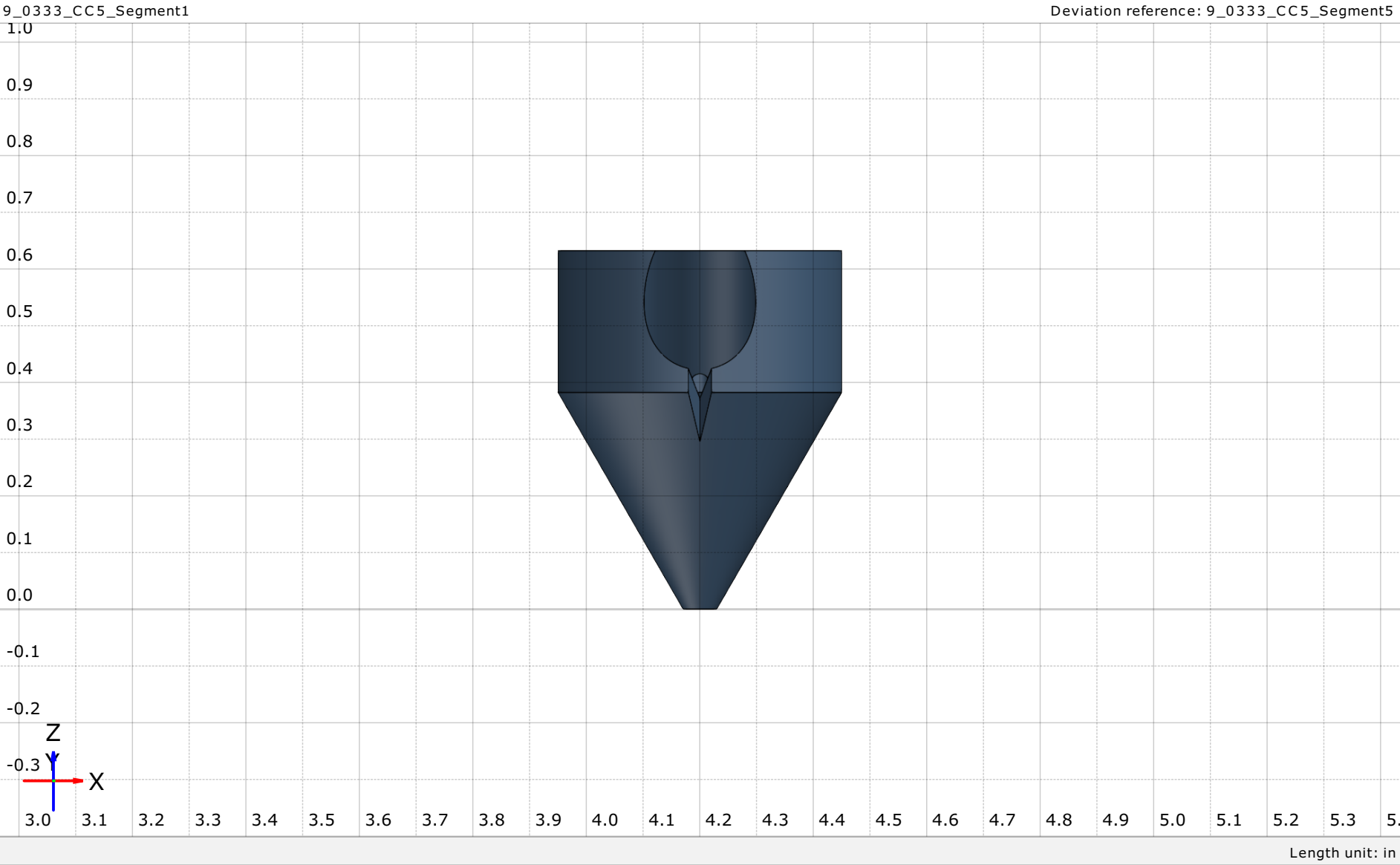
CAD Model - Left View



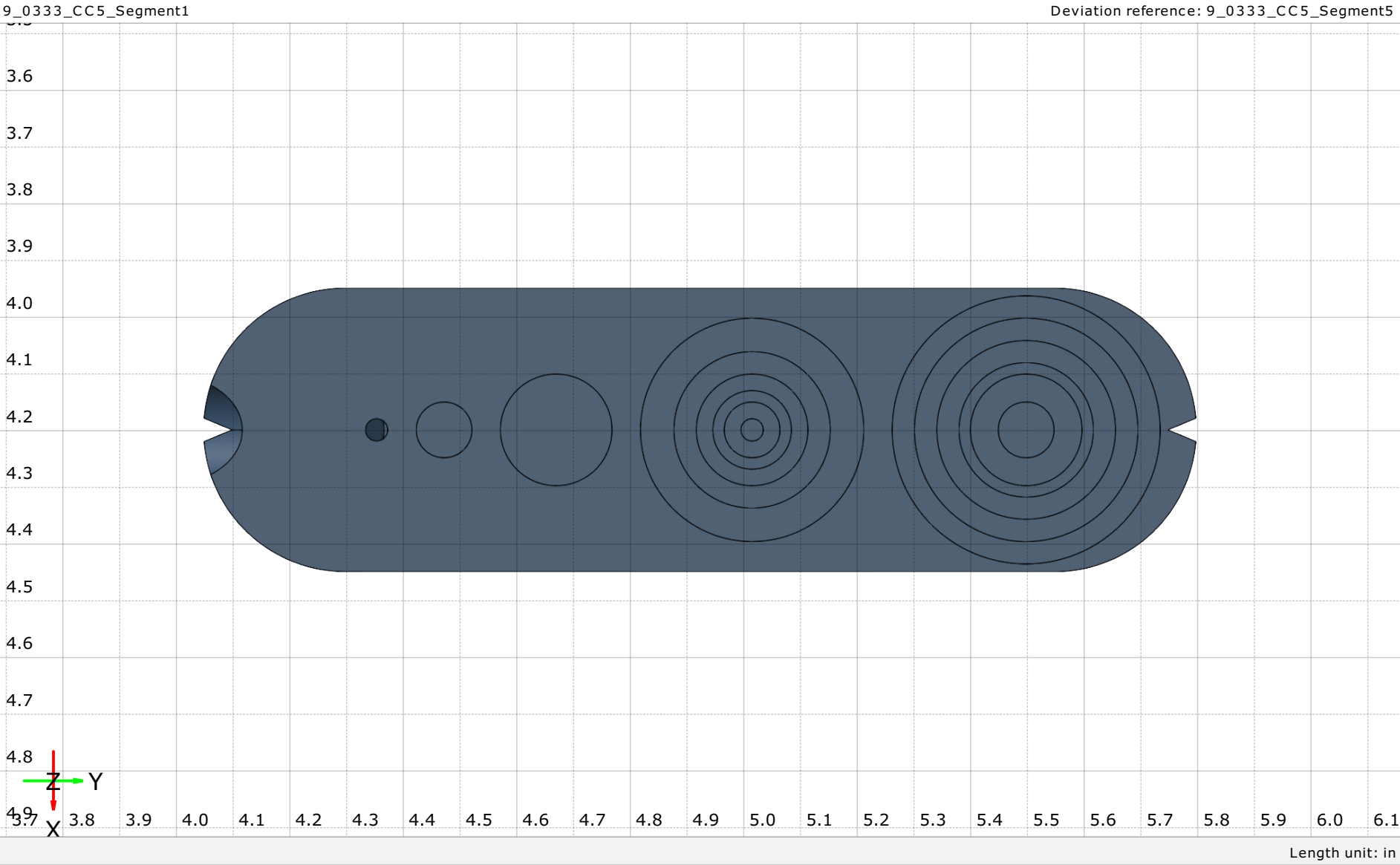
CAD Model - Back View



CAD Model - Right View

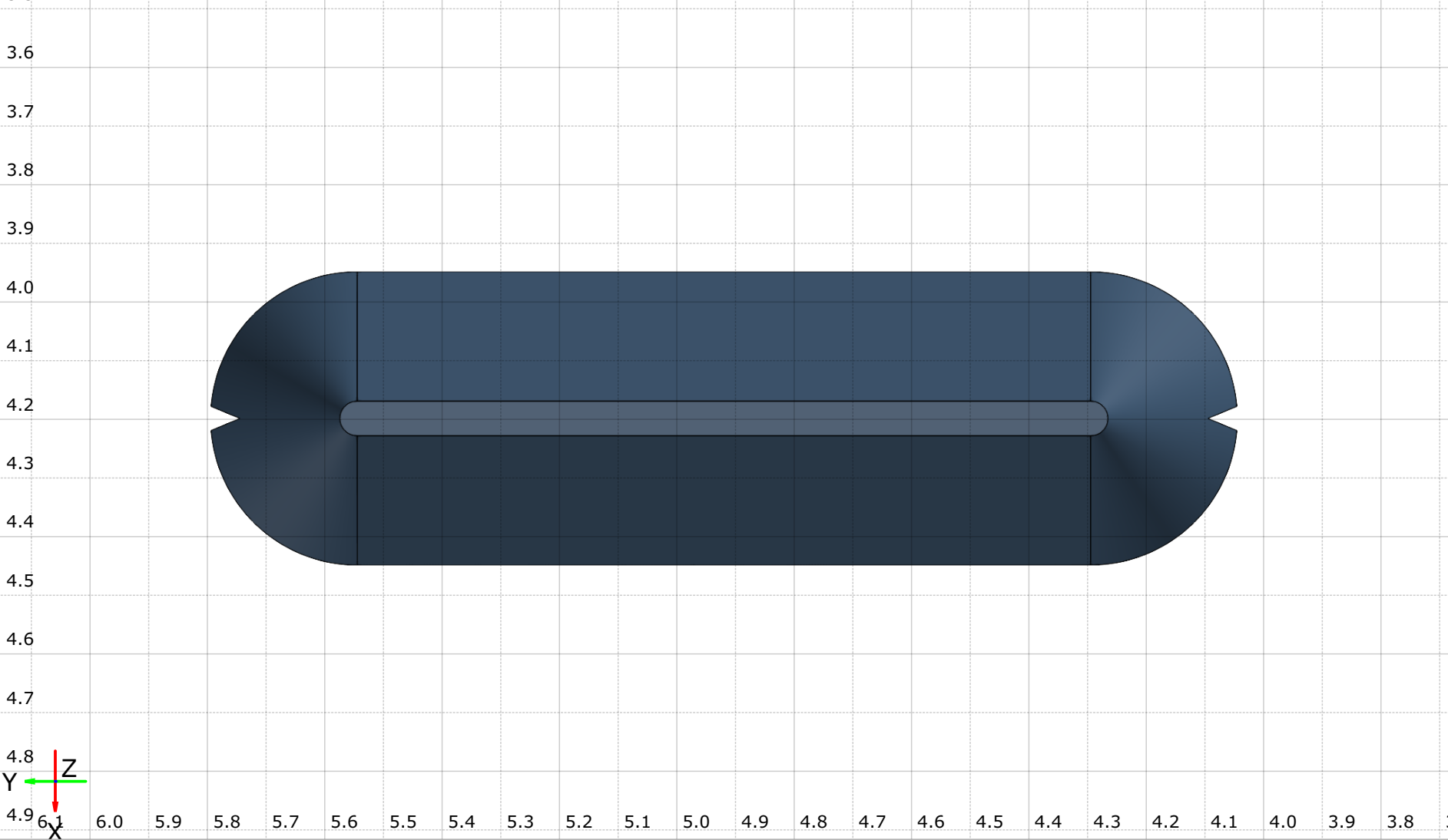


CAD Model - Top View



CAD Model - Bottom View

9_0333_CC5_Segment1 Deviation reference: 9_0333_CC5_Segment5

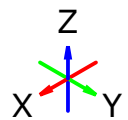
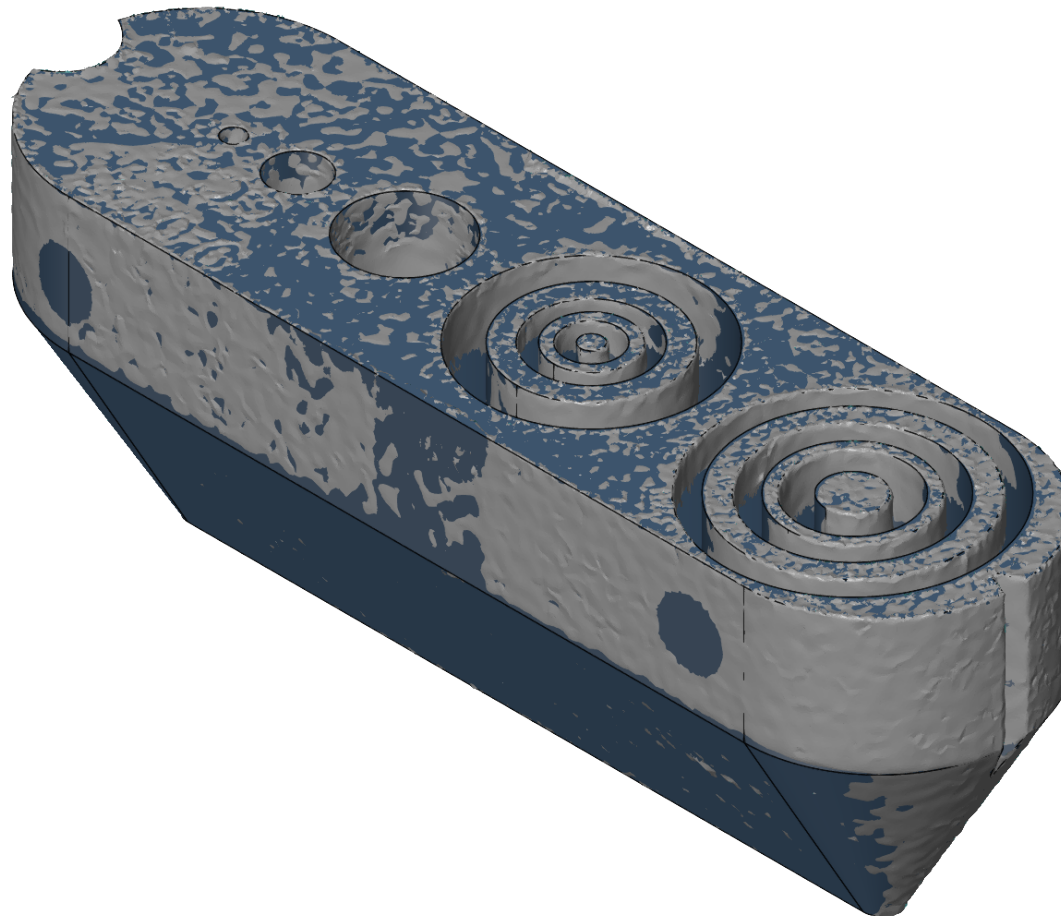


Length unit: in

CAD Model/Scan Data Overlay - Iso View, Segment 1

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



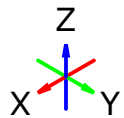
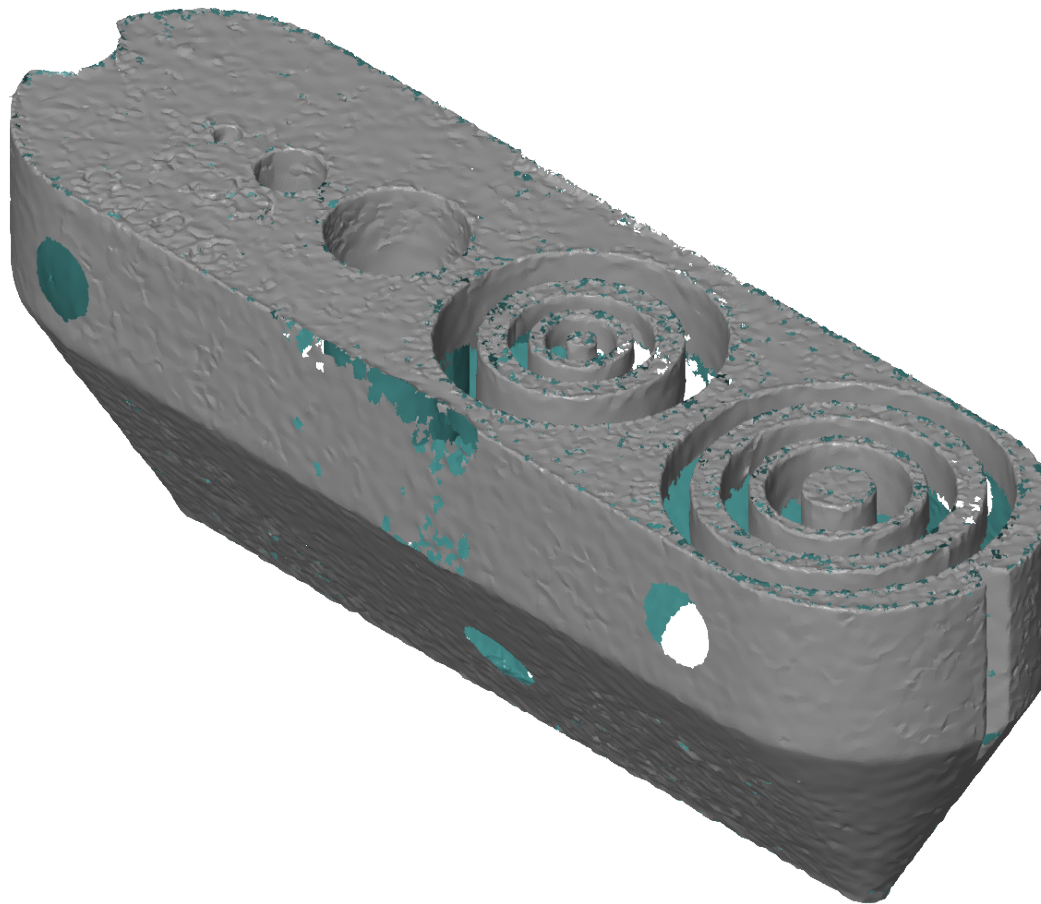
Alignment By Geometric Elements

Length unit: in

Scan Data - Iso View, Segment 1

9_0333_CC5_Segment1

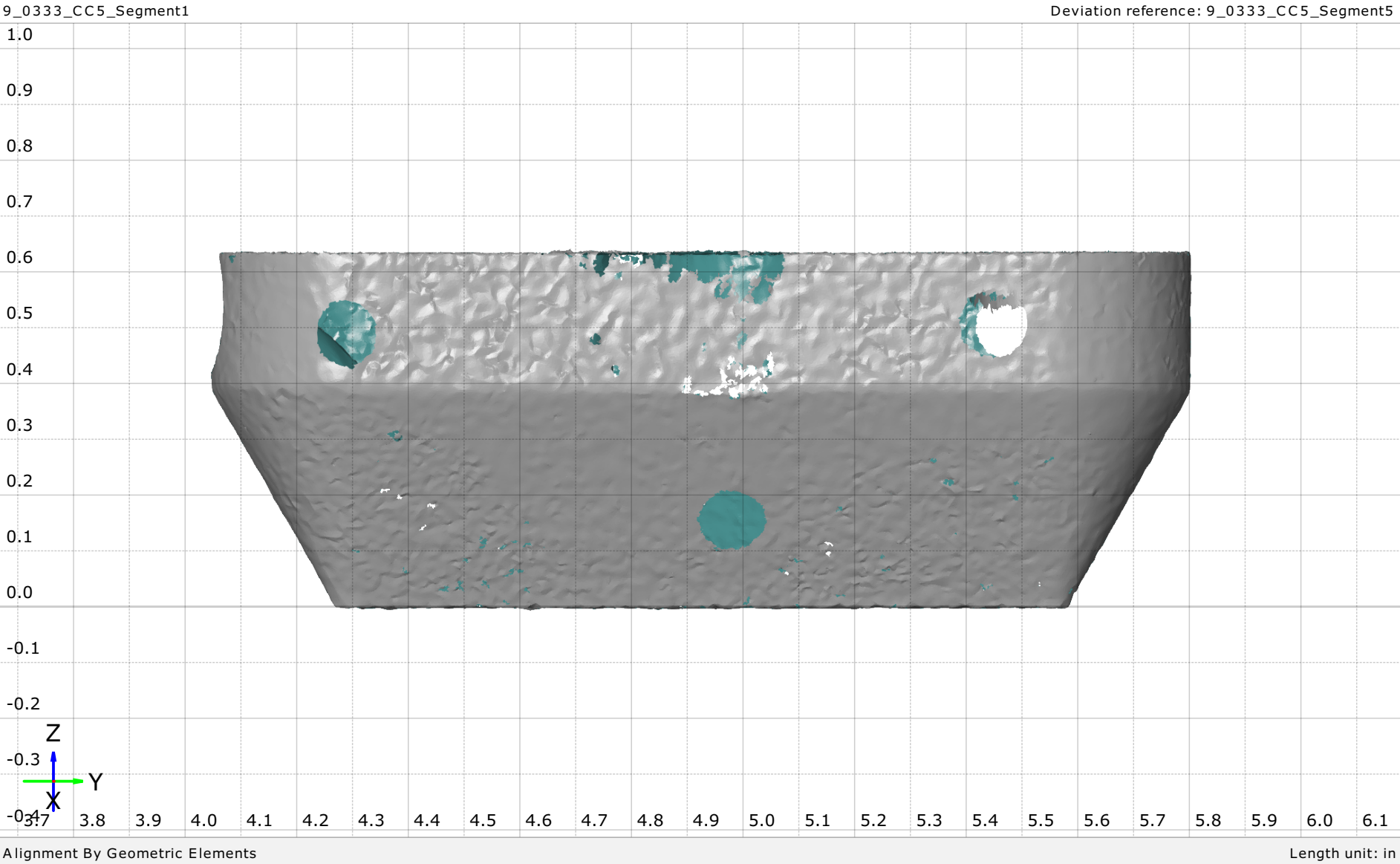
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Alignment By Geometric Elements

Length unit: in

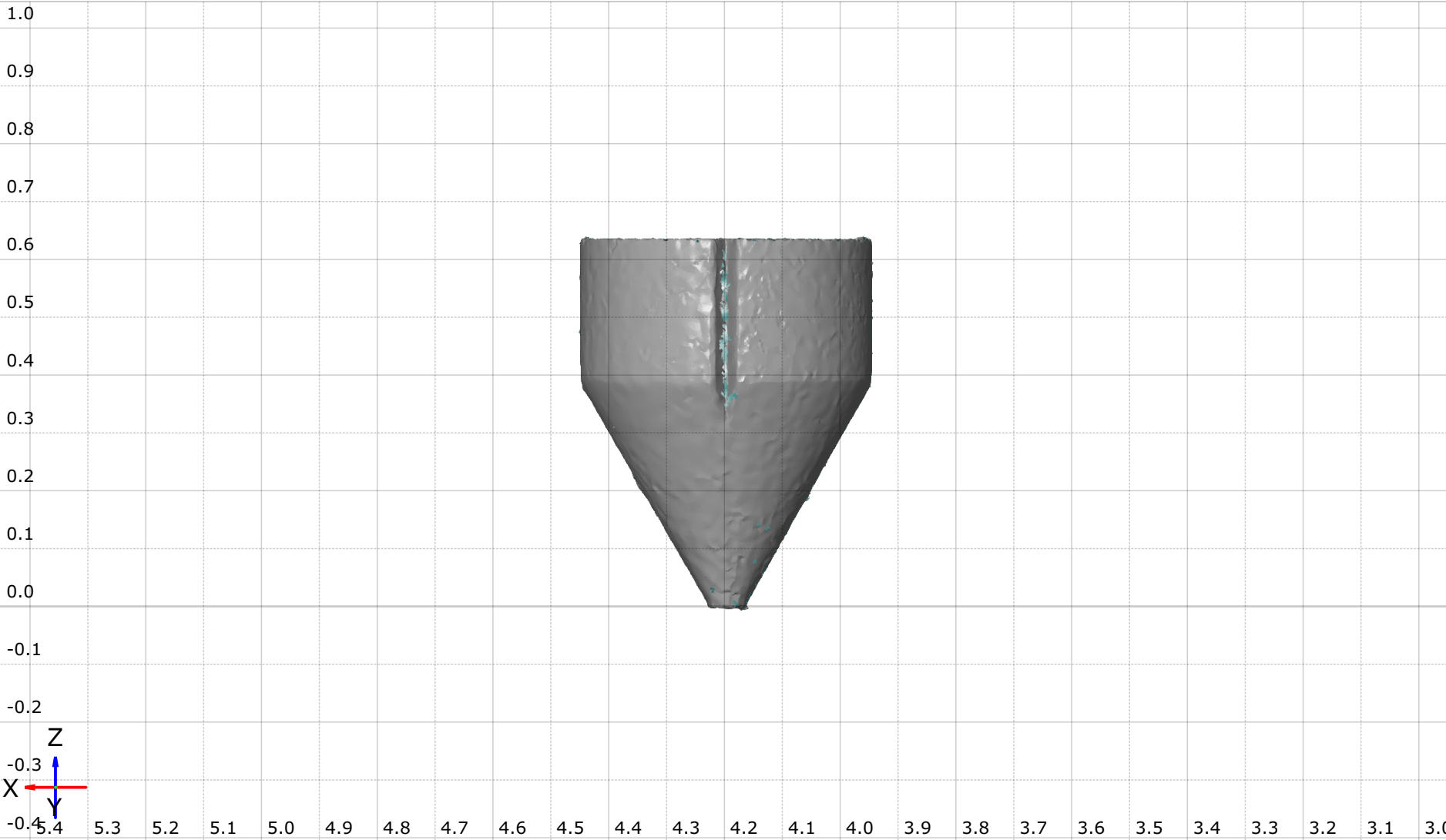
Scan Data - Front View, Segment 1



Scan Data - Left View, Segment 1

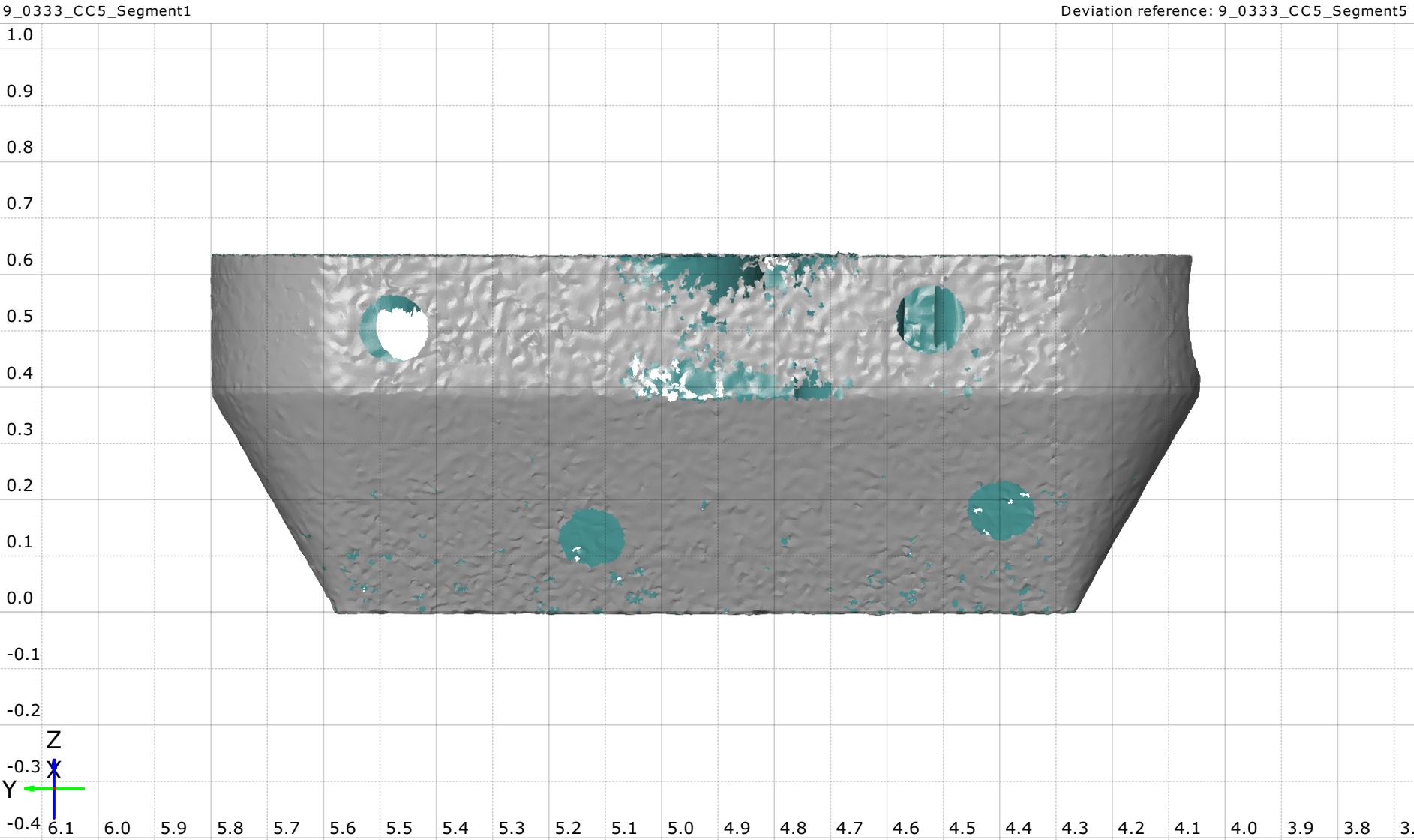
9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



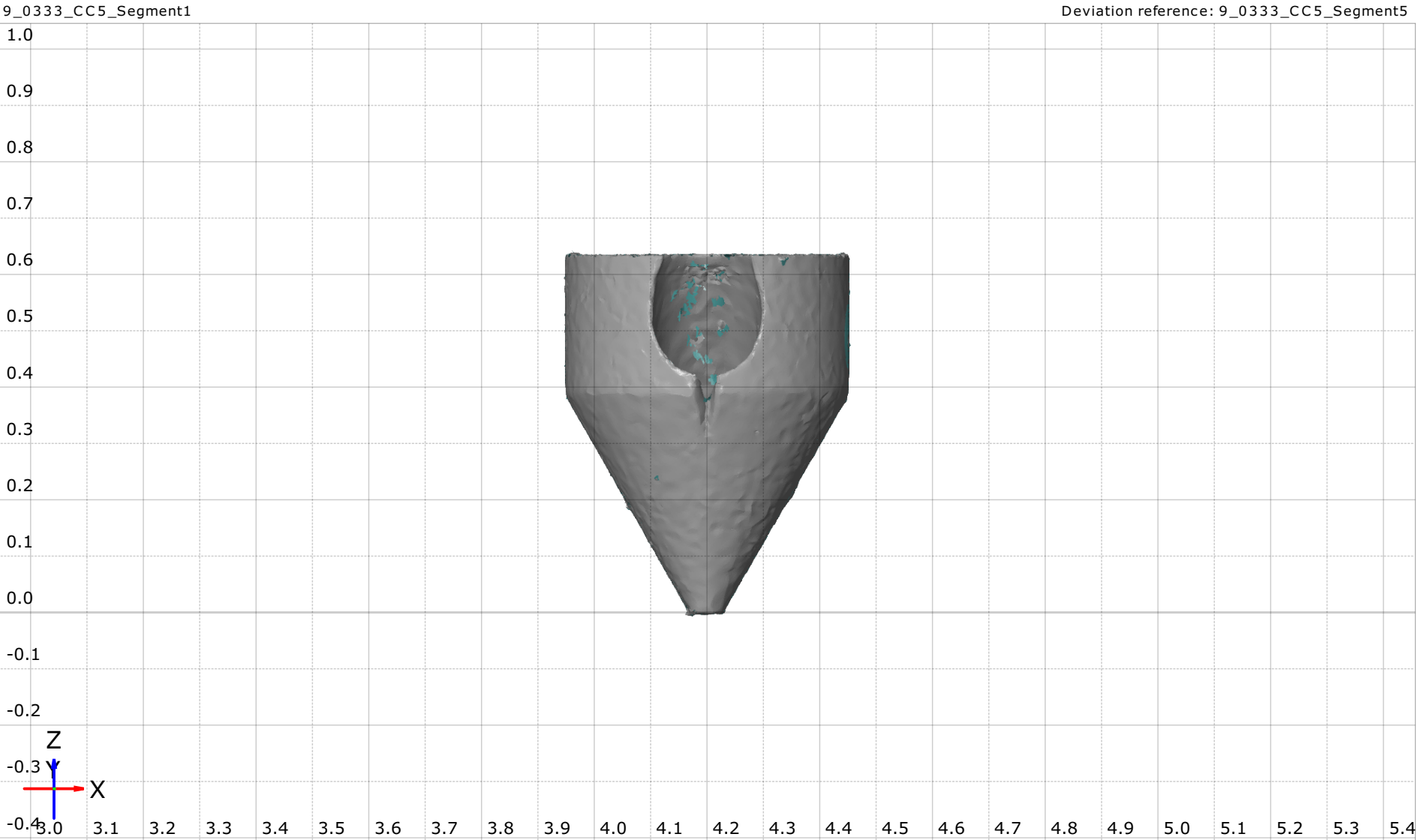
Alignment By Geometric Elements Length unit: in

Scan Data - Back View, Segment 1



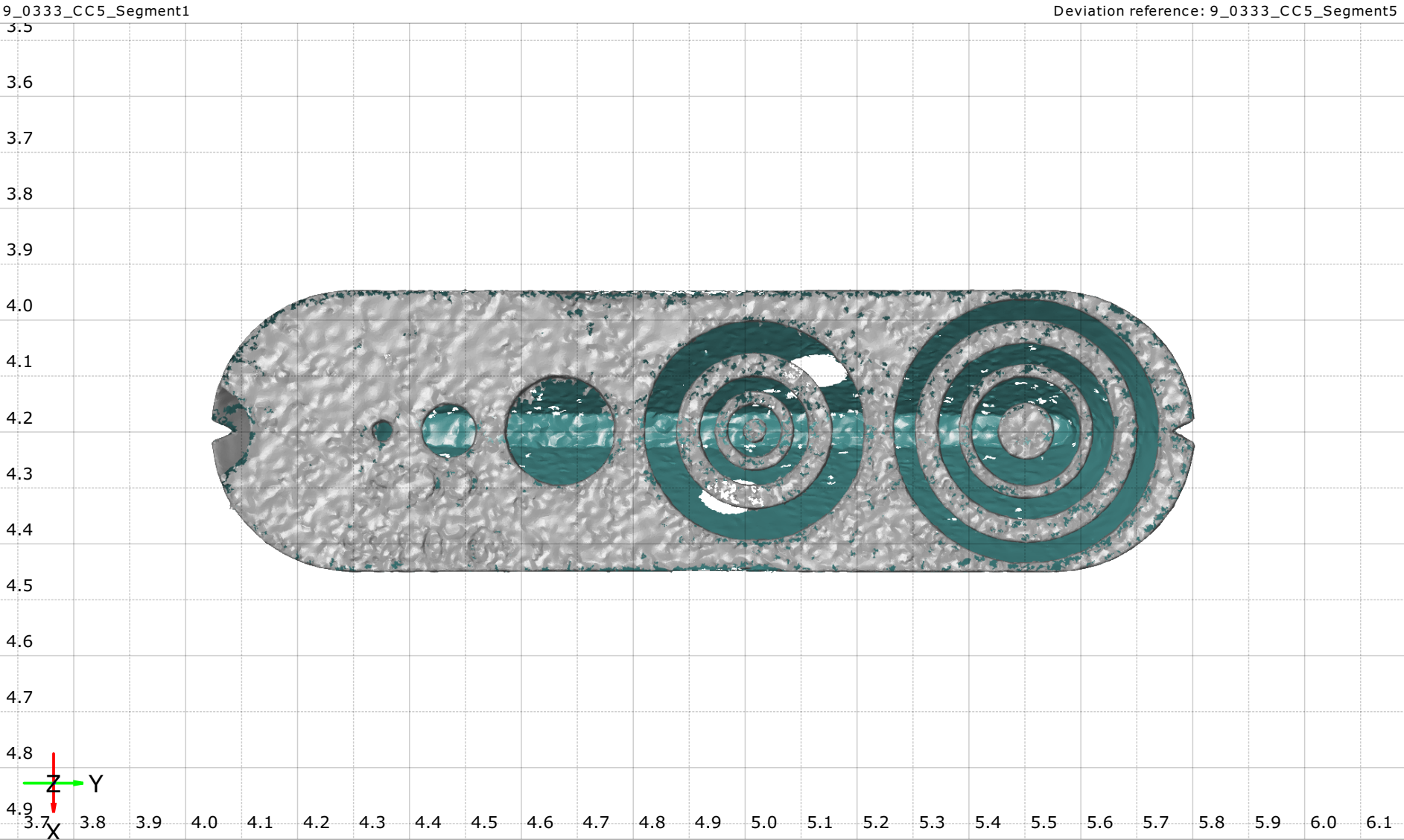
Alignment By Geometric Elements Length unit: in

Scan Data - Right View, Segment 1

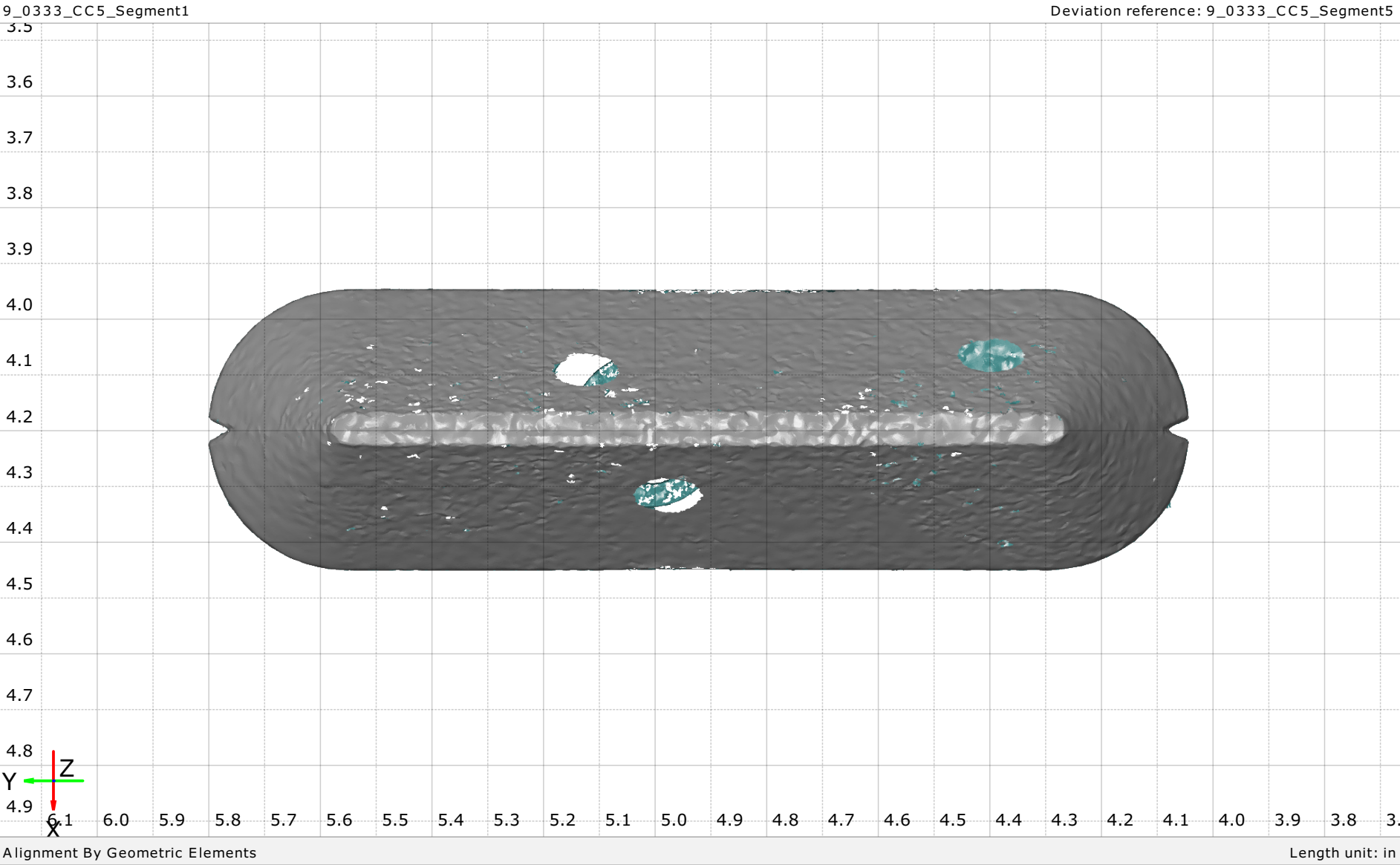


Alignment By Geometric Elements Length unit: in

Scan Data - Top View, Segment 1



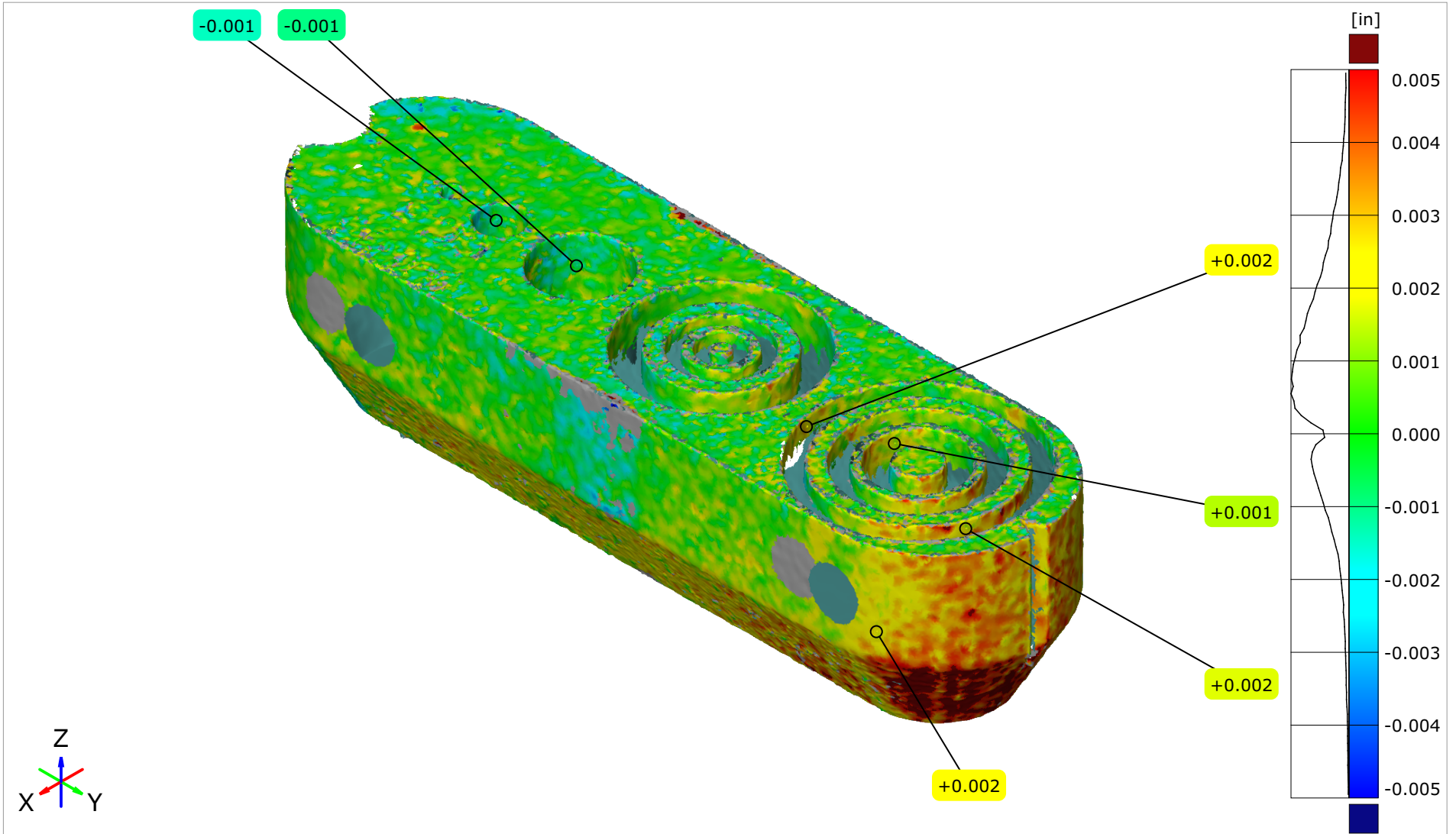
Scan Data - Bottom View, Segment 1



3D Deviation - Iso View, Segment 1

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



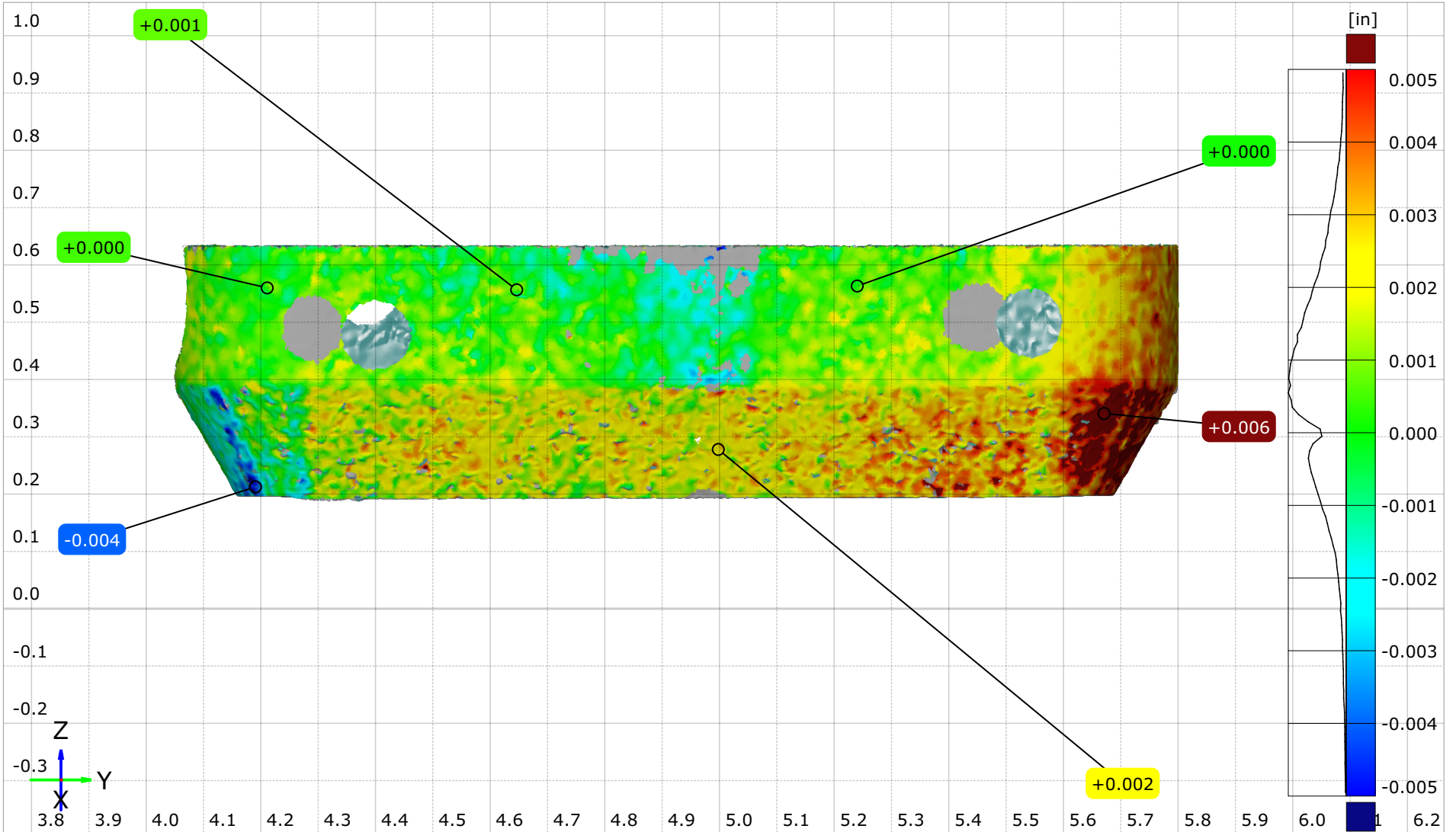
Alignment By Geometric Elements

Length unit: in

3D Deviation - Front View, Segment 1

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



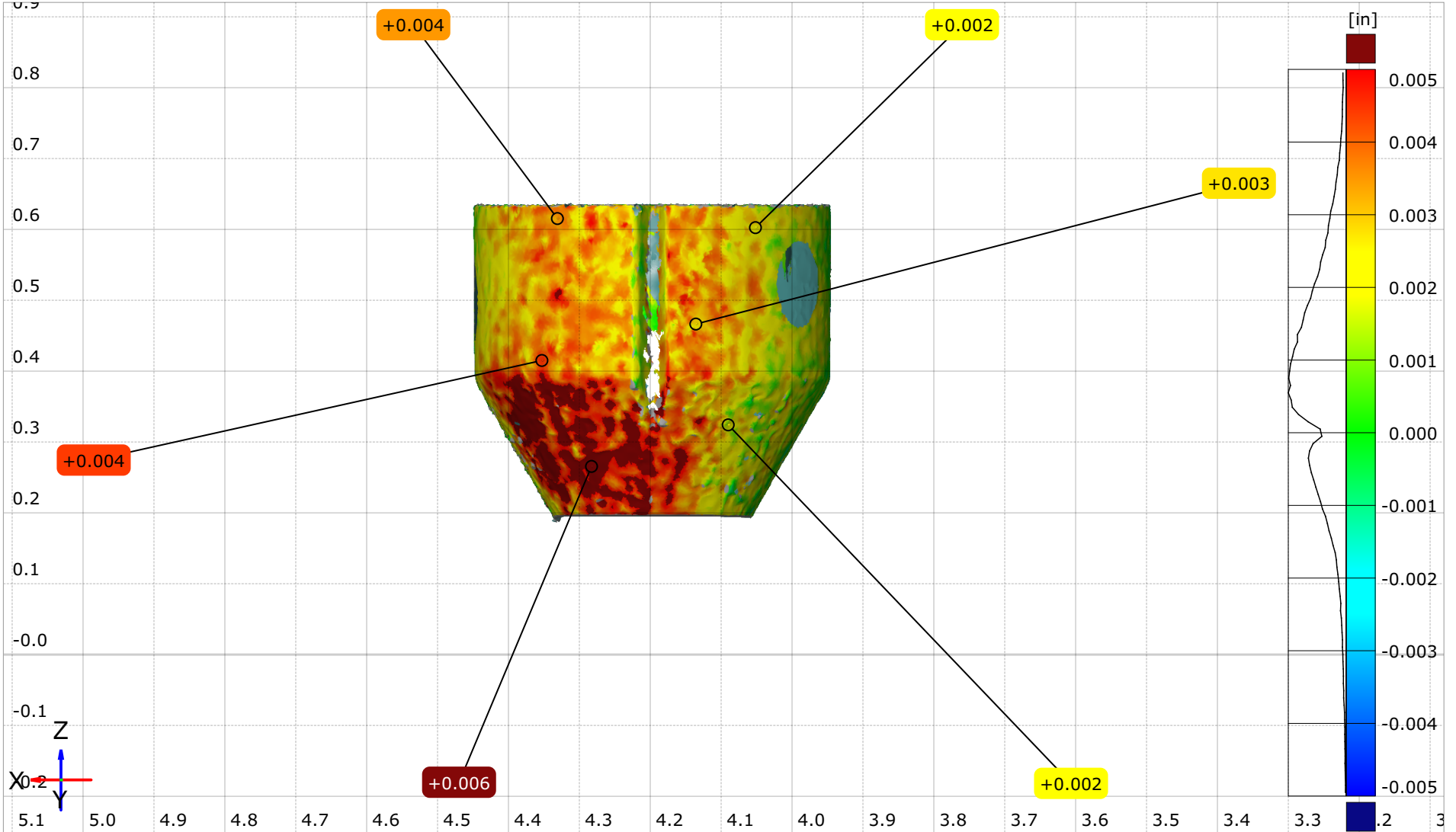
Alignment By Geometric Elements

Length unit: in

3D Deviation - Left View, Segment 1

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



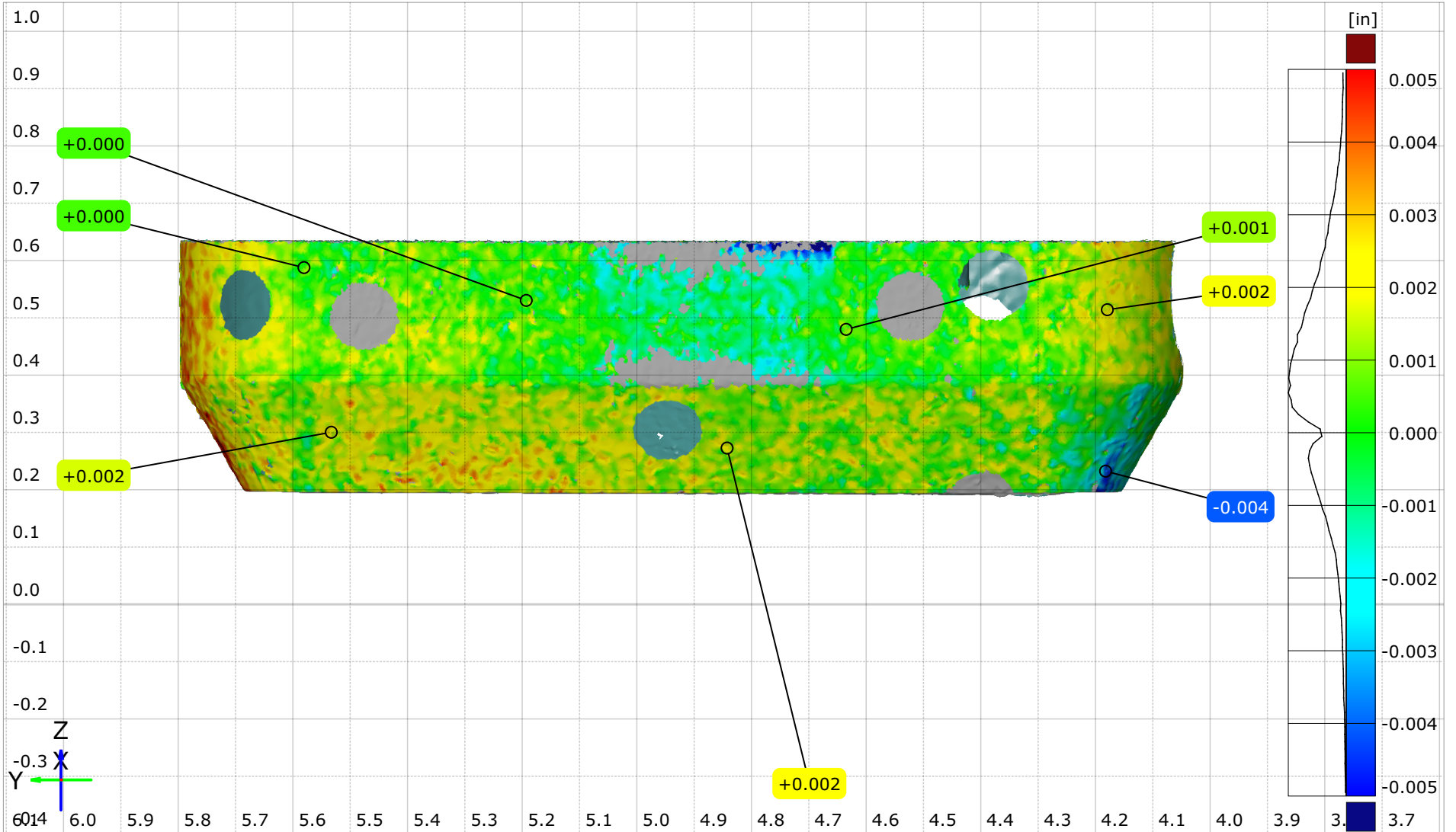
Alignment By Geometric Elements

Length unit: in

3D Deviation - Back View, Segment 1

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



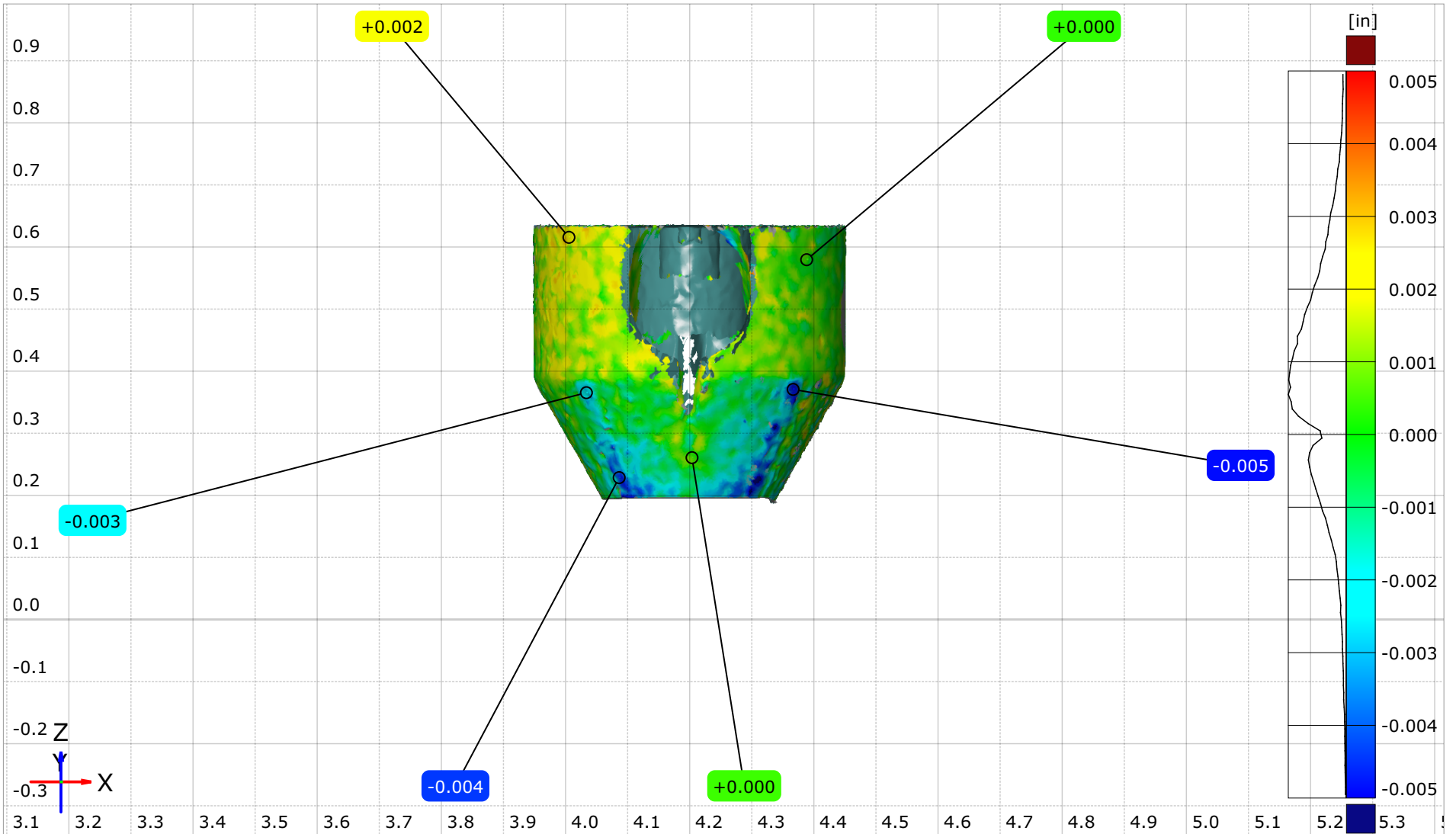
Alignment By Geometric Elements

Length unit: in

3D Deviation - Right View, Segment 1

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



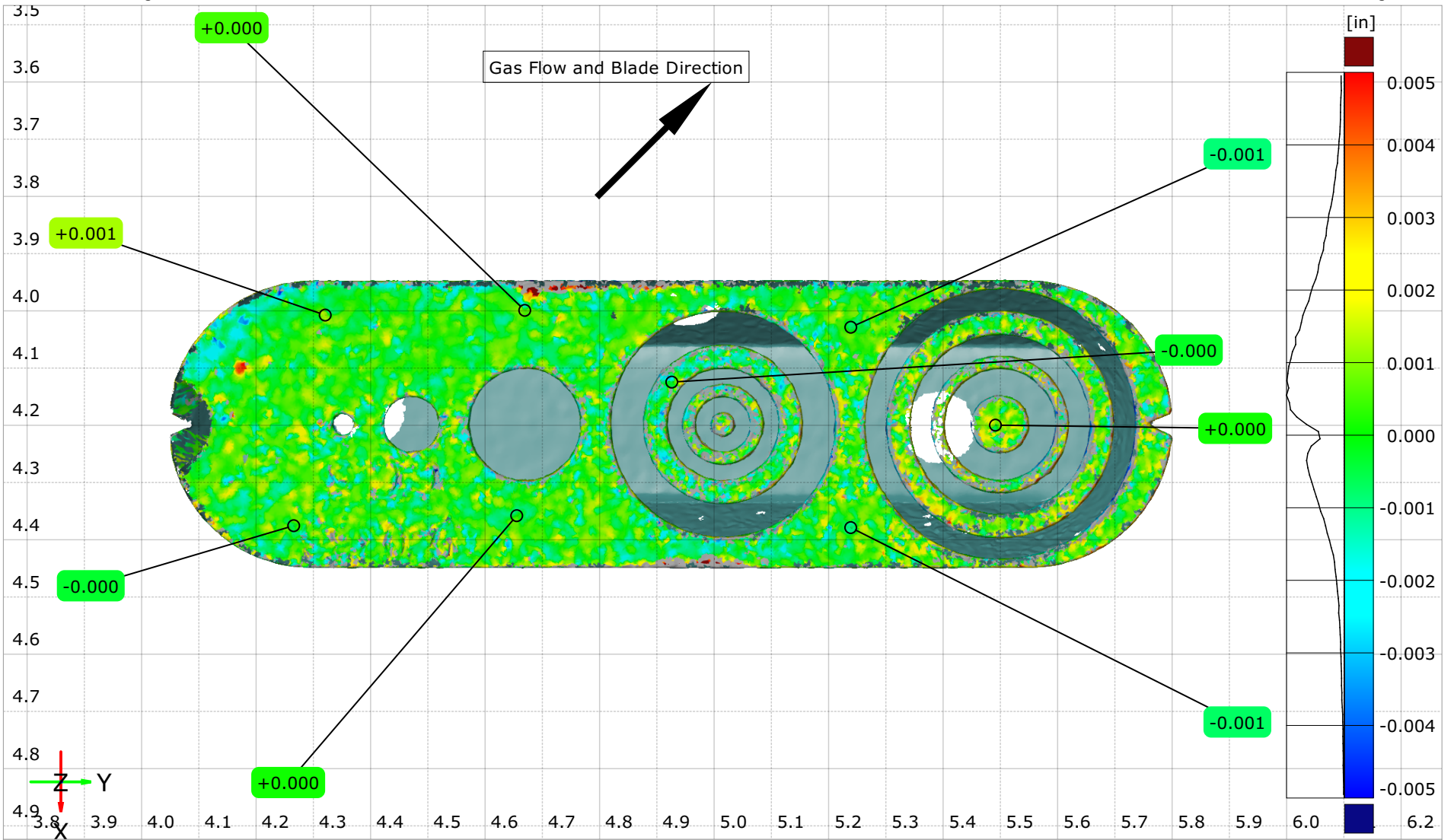
Alignment By Geometric Elements

Length unit: in

3D Deviation - Top View, Segment 1

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



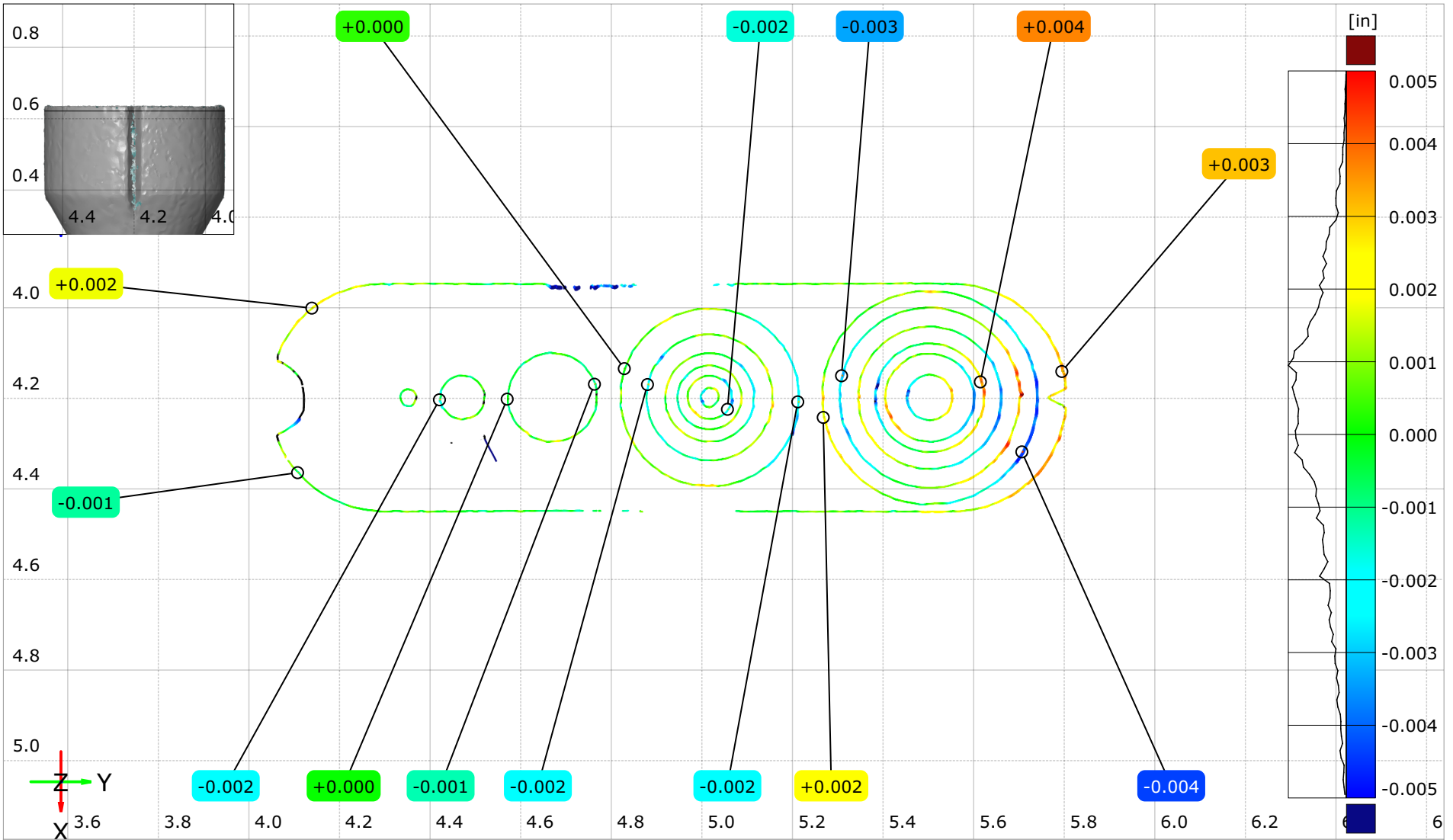
Alignment By Geometric Elements

Length unit: in

2D Deviation - Top View, Segment 1 Offset from Plane 1 by -0.010in

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



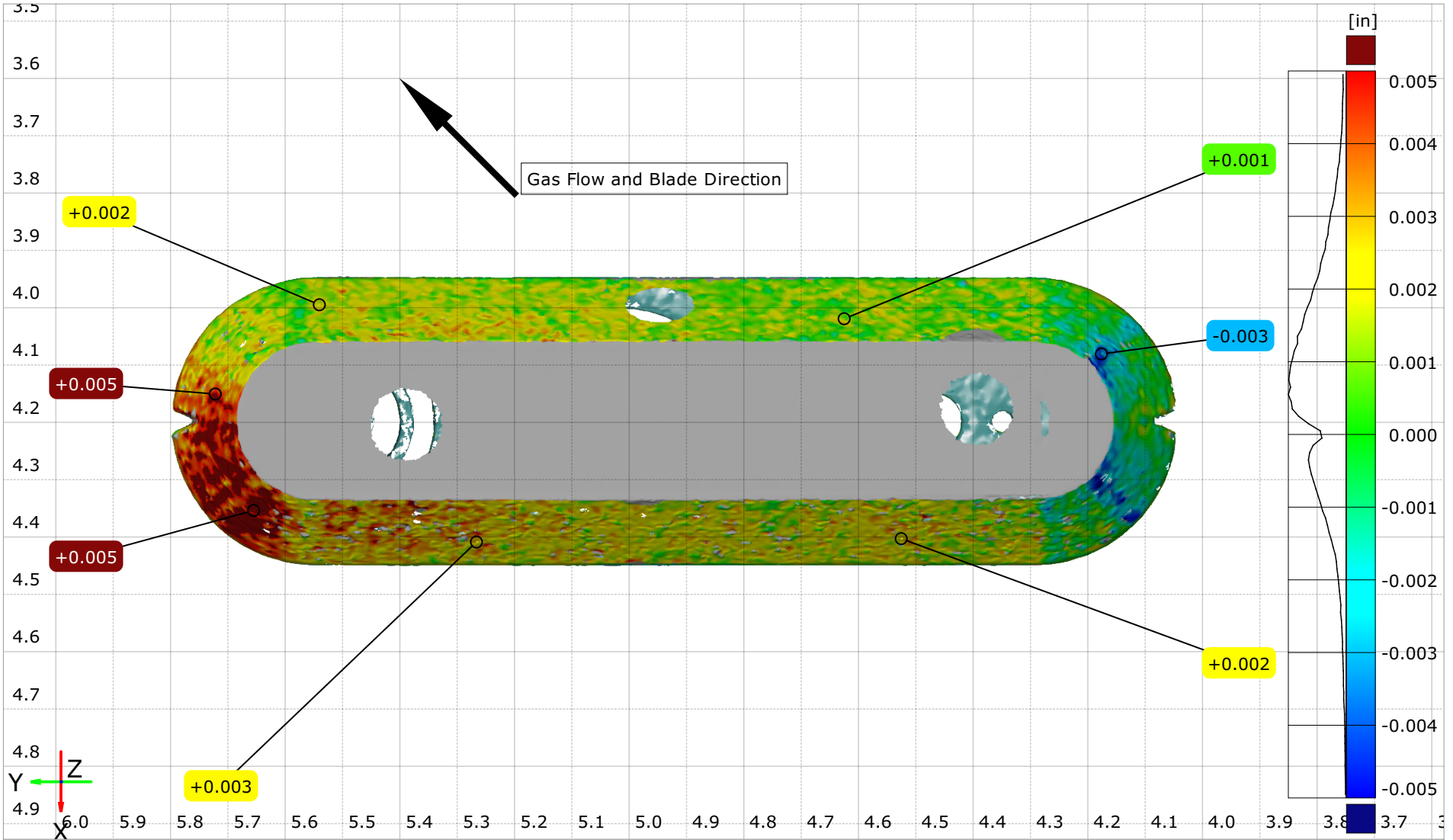
Alignment By Geometric Elements

Length unit: in

3D Deviation - Bottom View, Segment 1

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



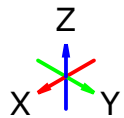
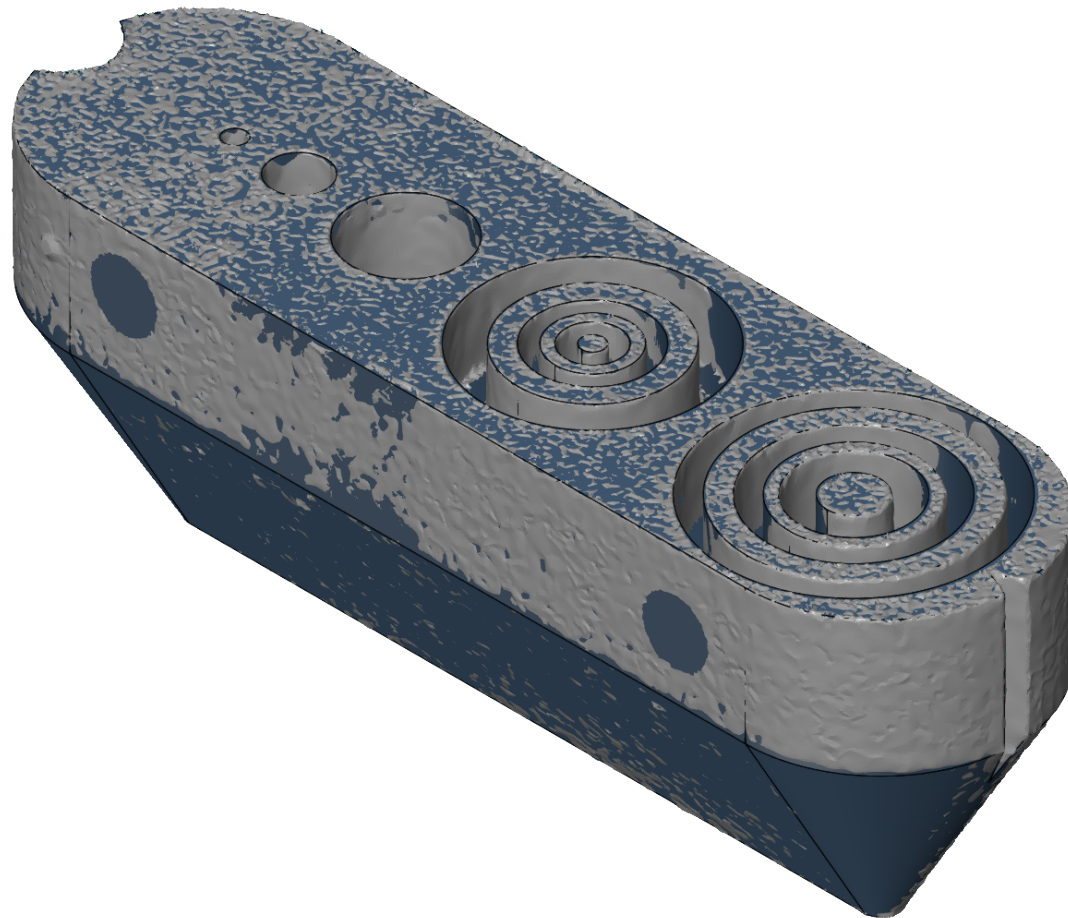
Alignment By Geometric Elements

Length unit: in

CAD Model/Scan Data Overlay - Iso View, Segment 2

9_0333_CC5_Segment2

Deviation reference: 9_0333_CC5_Segment5



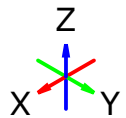
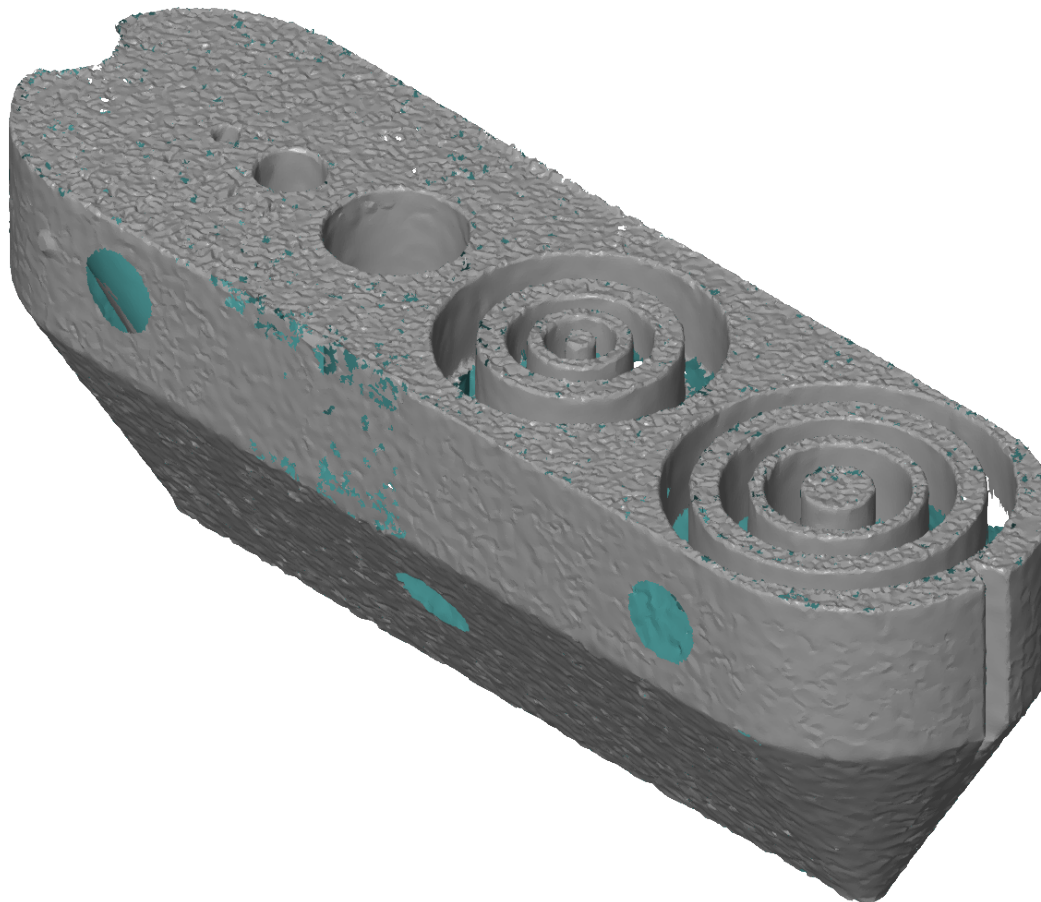
Alignment By Geometric Elements

Length unit: in

Scan Data - Iso View, Segment 2

9_0333_CC5_Segment2

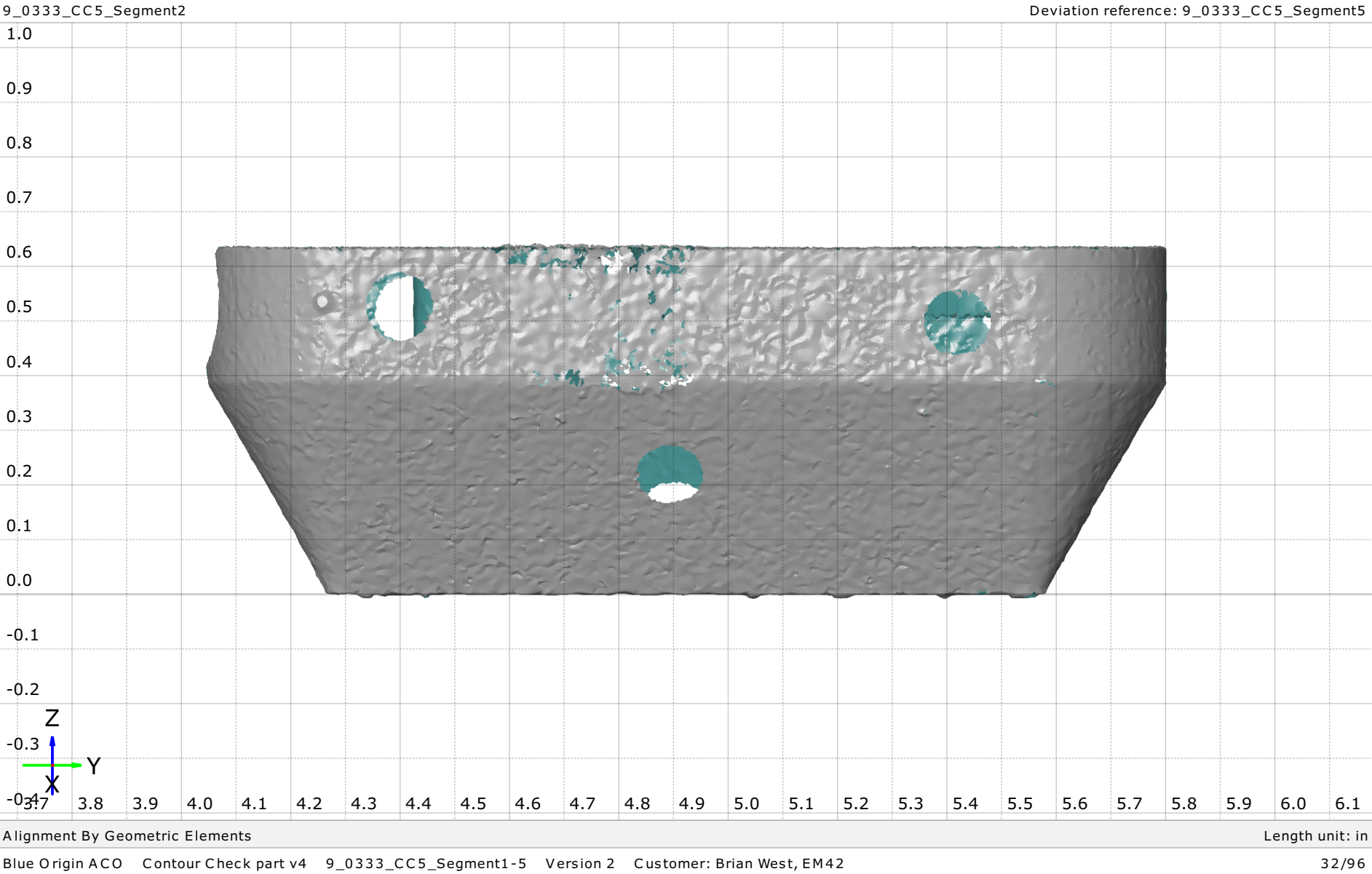
Deviation reference: 9_0333_CC5_Segment5



Alignment By Geometric Elements

Length unit: in

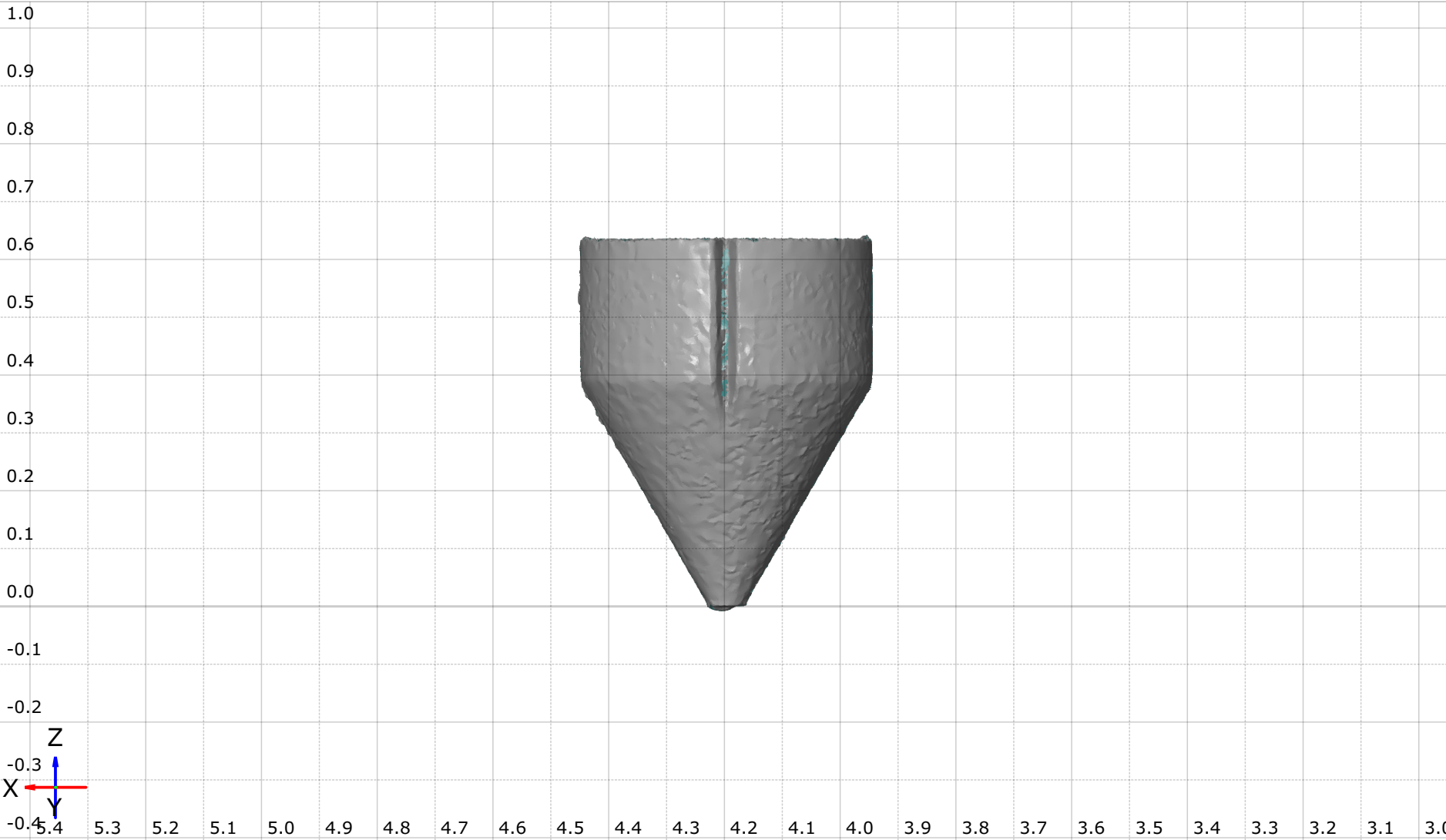
Scan Data - Front View, Segment 2



Scan Data - Left View, Segment 2

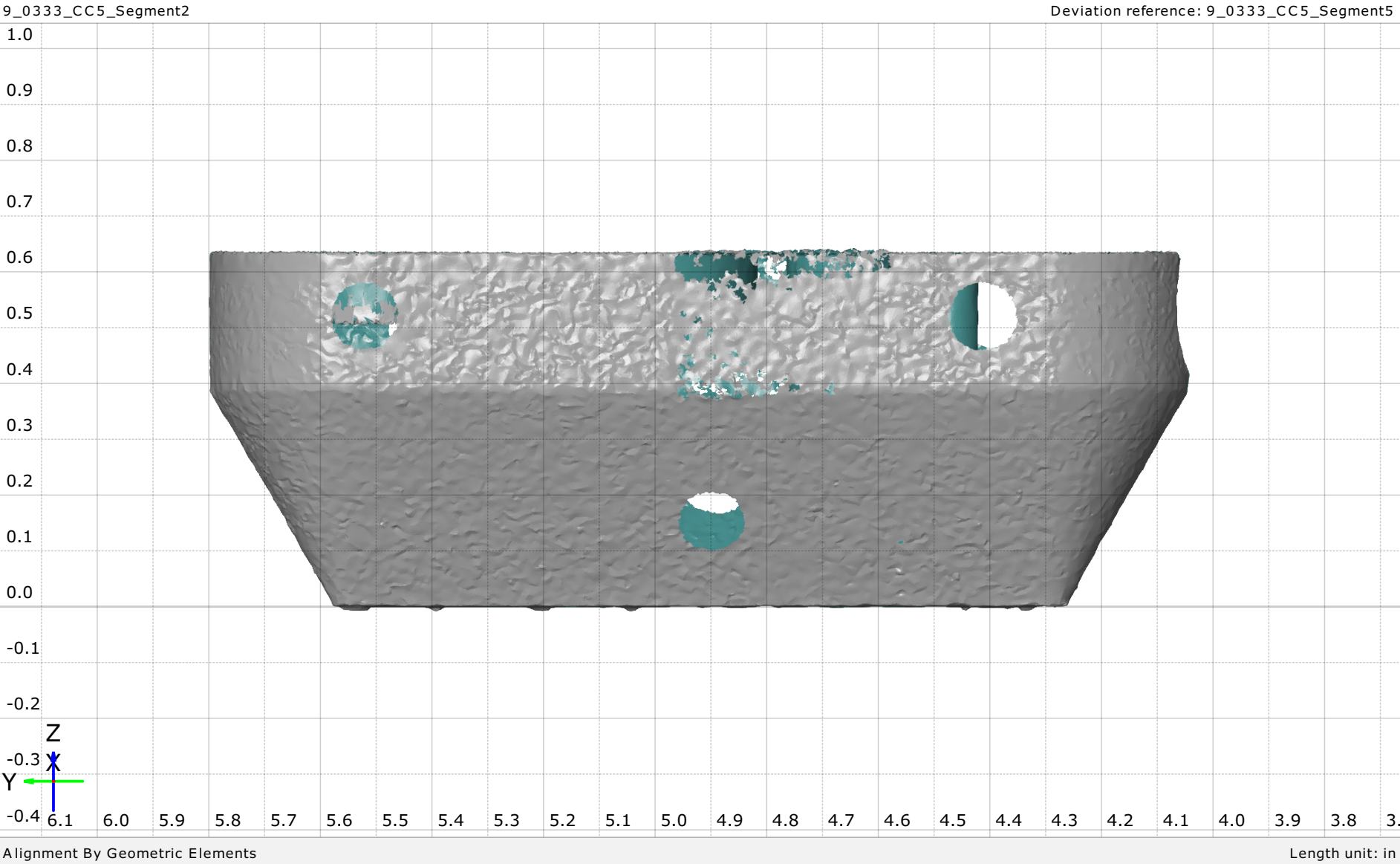
9_0333_CC5_Segment2

Deviation reference: 9_0333_CC5_Segment5

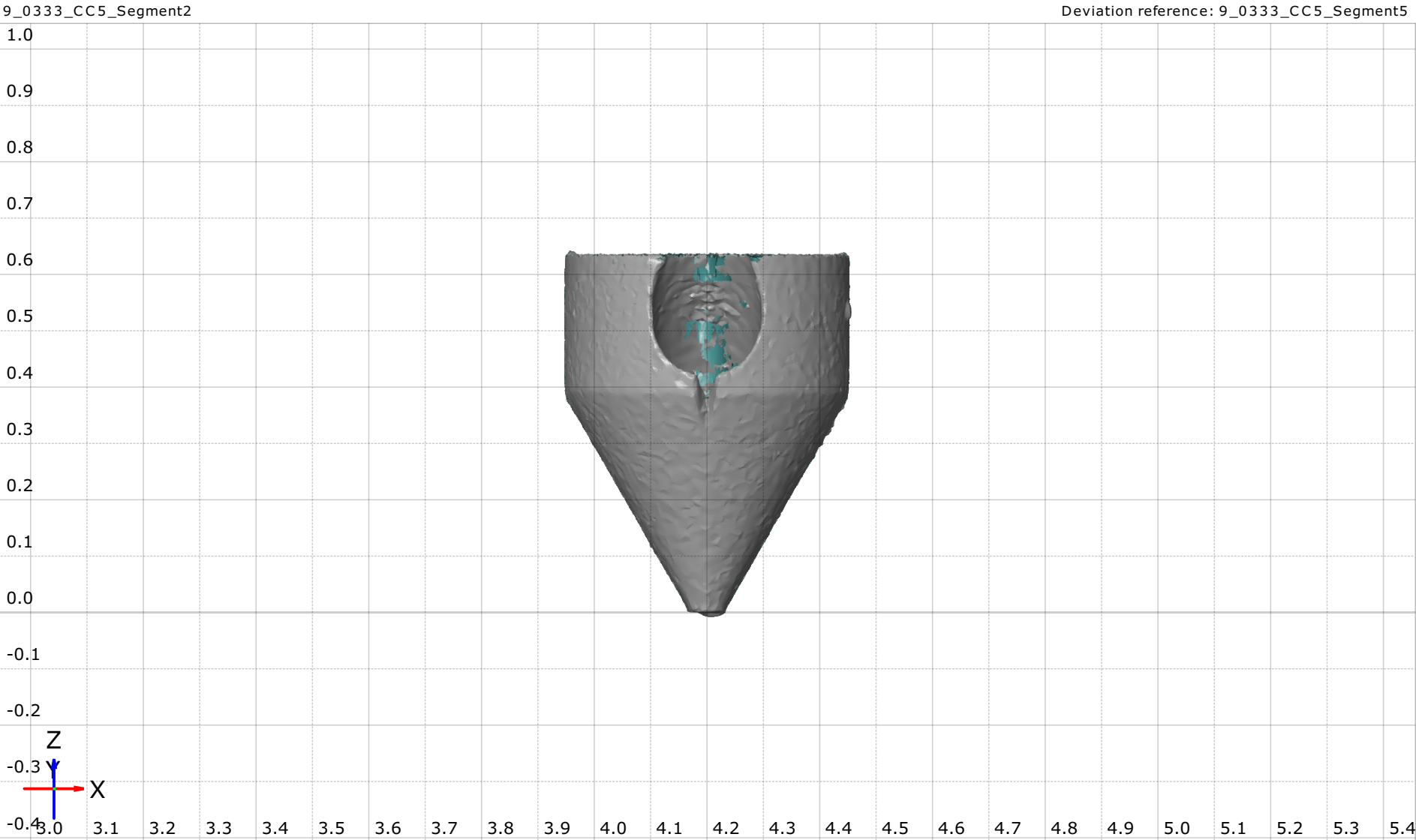


Alignment By Geometric Elements Length unit: in

Scan Data - Back View, Segment 2

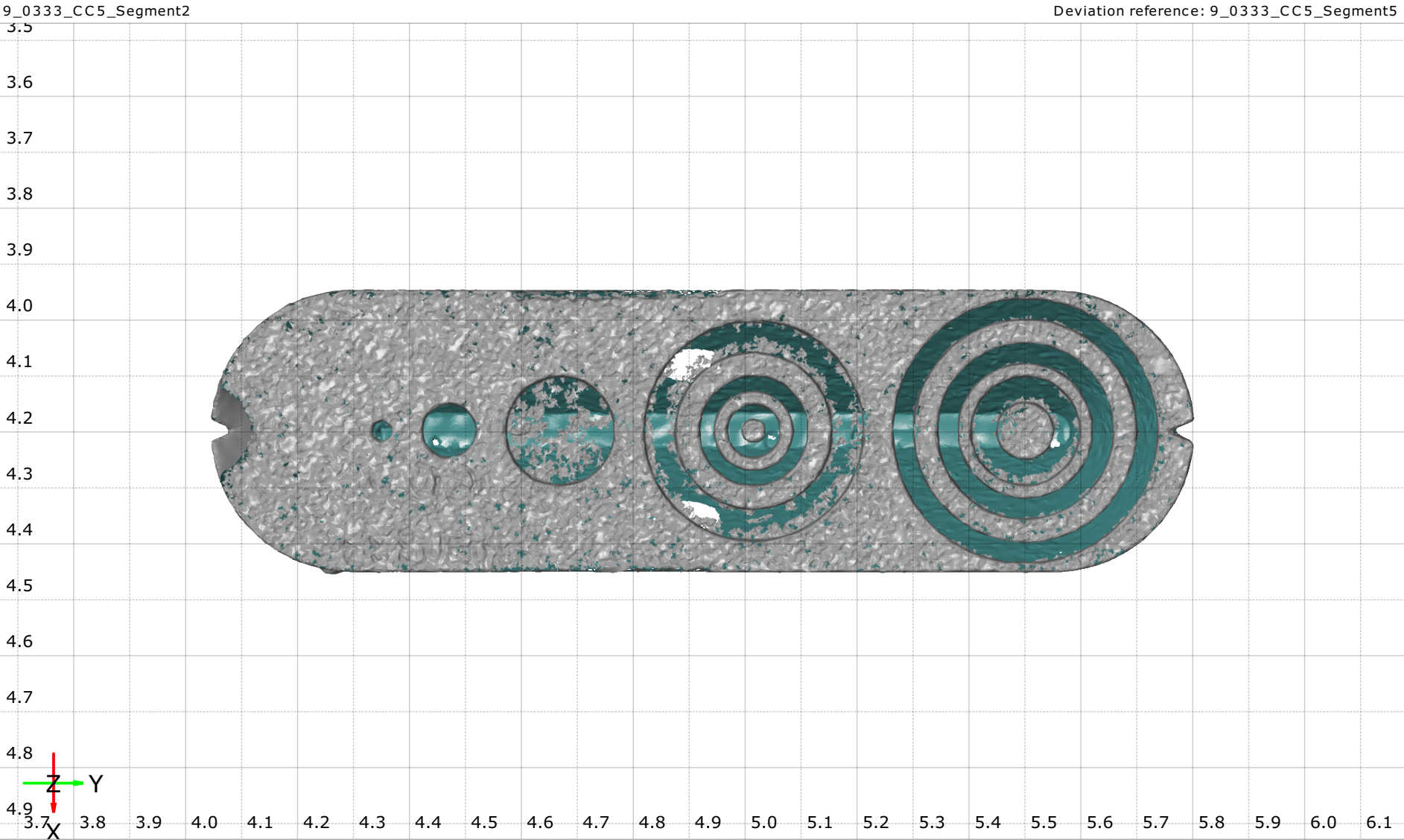


Scan Data - Right View, Segment 2



Alignment By Geometric Elements Length unit: in

Scan Data - Top View, Segment 2



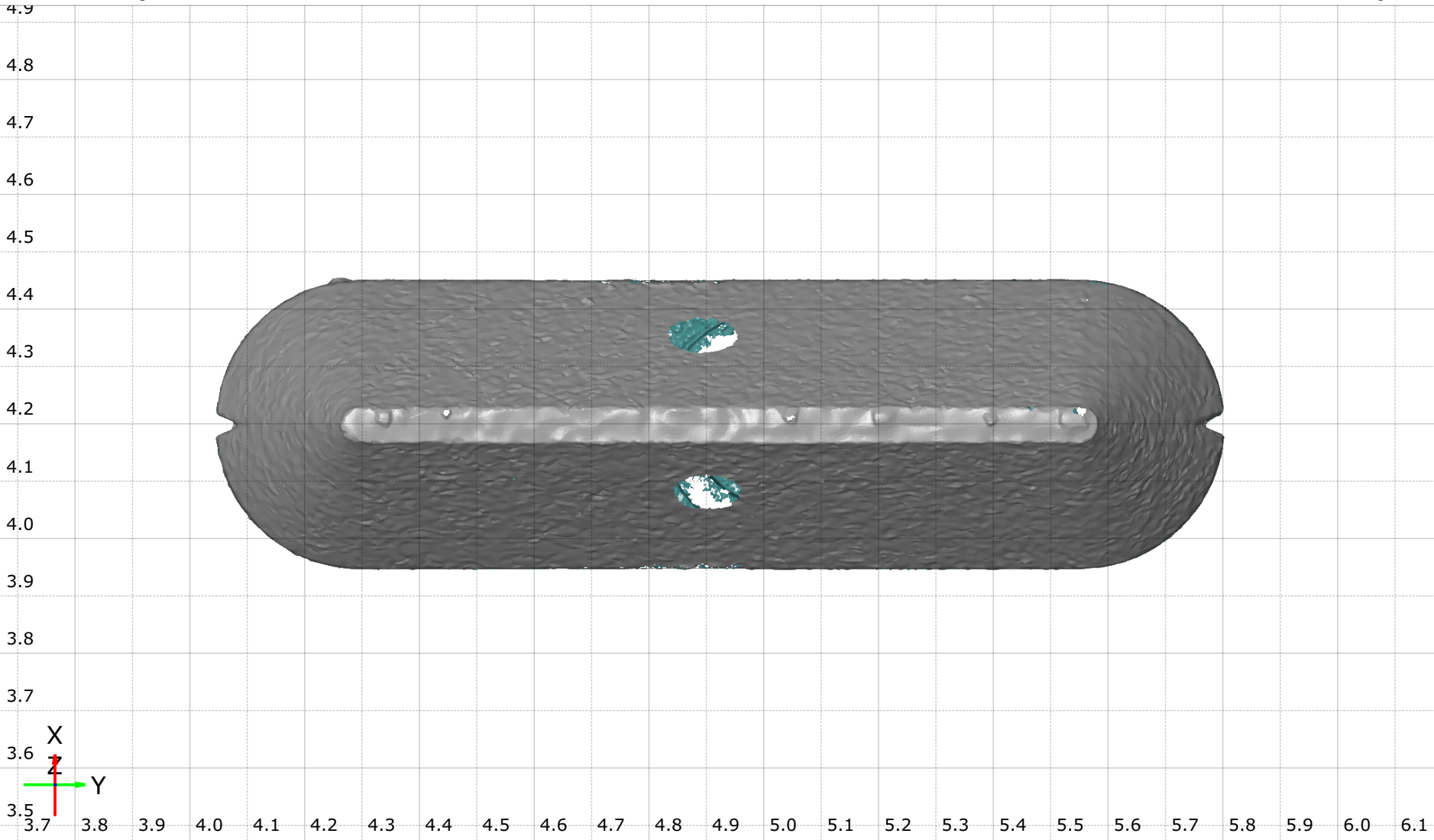
Alignment By Geometric Elements

Length unit: in

Scan Data - Bottom View, Segment 2

9_0333_CC5_Segment2

Deviation reference: 9_0333_CC5_Segment5

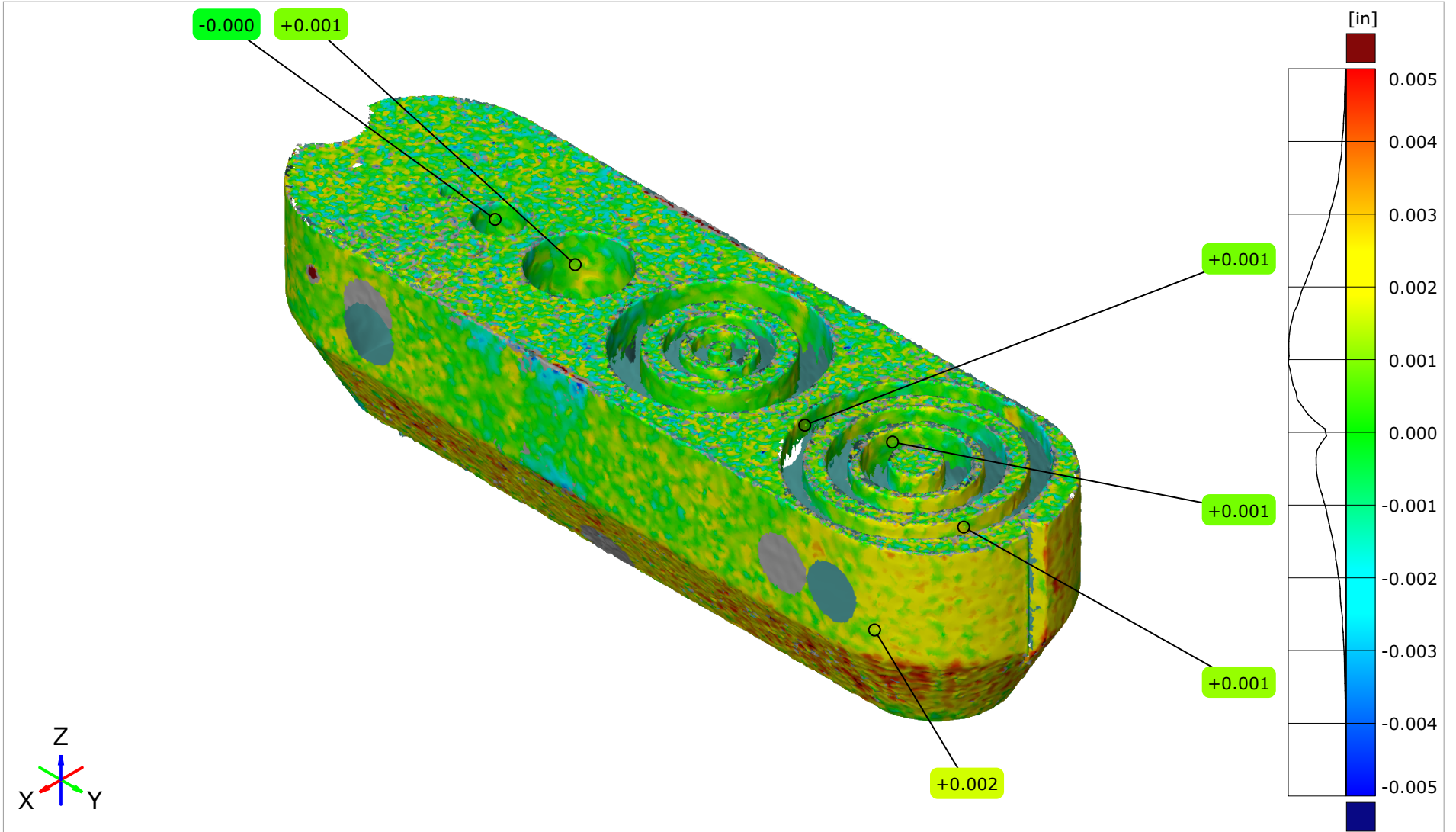


Alignment By Geometric Elements Length unit: in

3D Deviation - Iso View, Segment 2

9_0333_CC5_Segment2

Deviation reference: 9_0333_CC5_Segment5



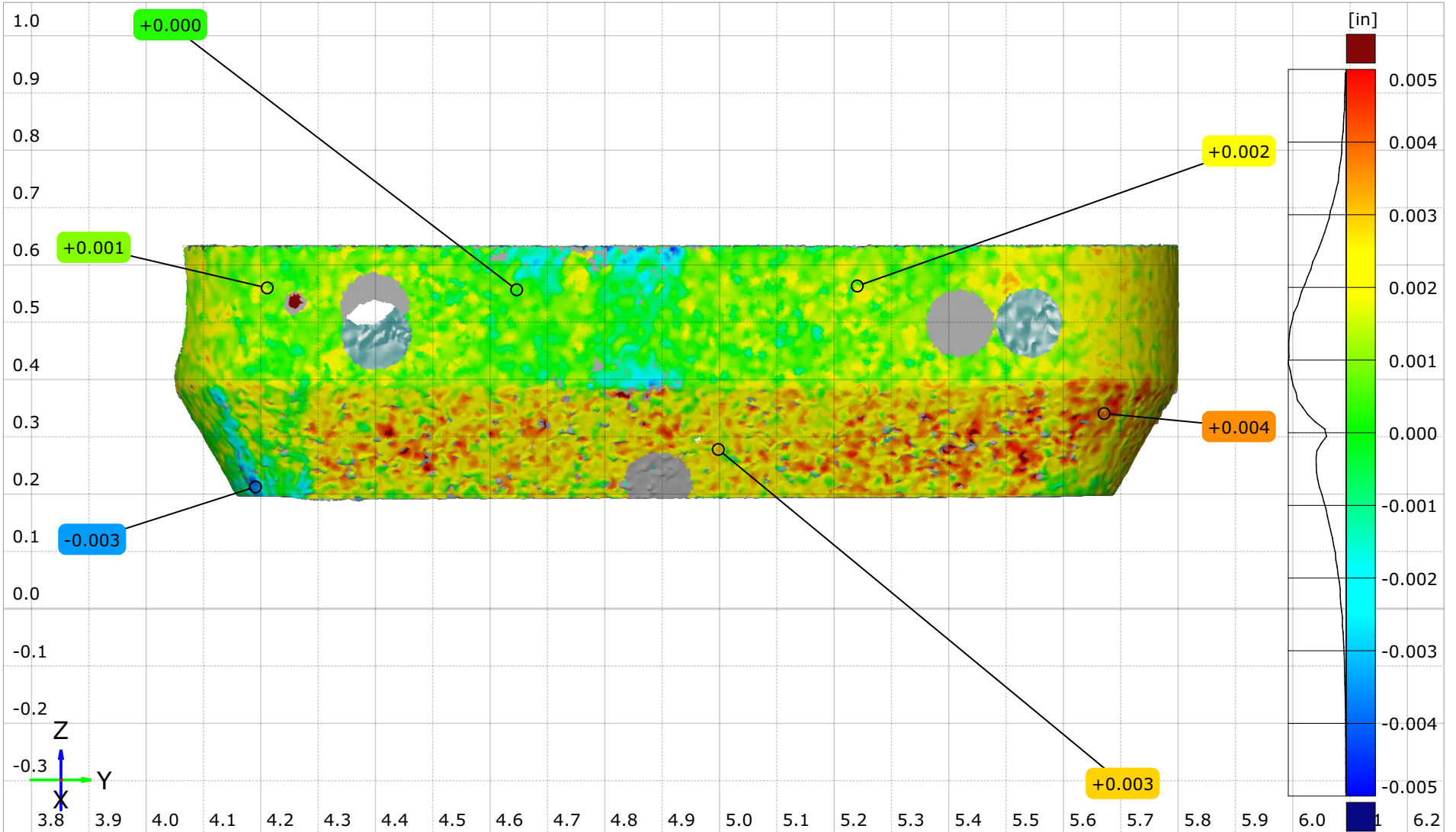
Alignment By Geometric Elements

Length unit: in

3D Deviation - Front View, Segment 2

9_0333_CC5_Segment2

Deviation reference: 9_0333_CC5_Segment5



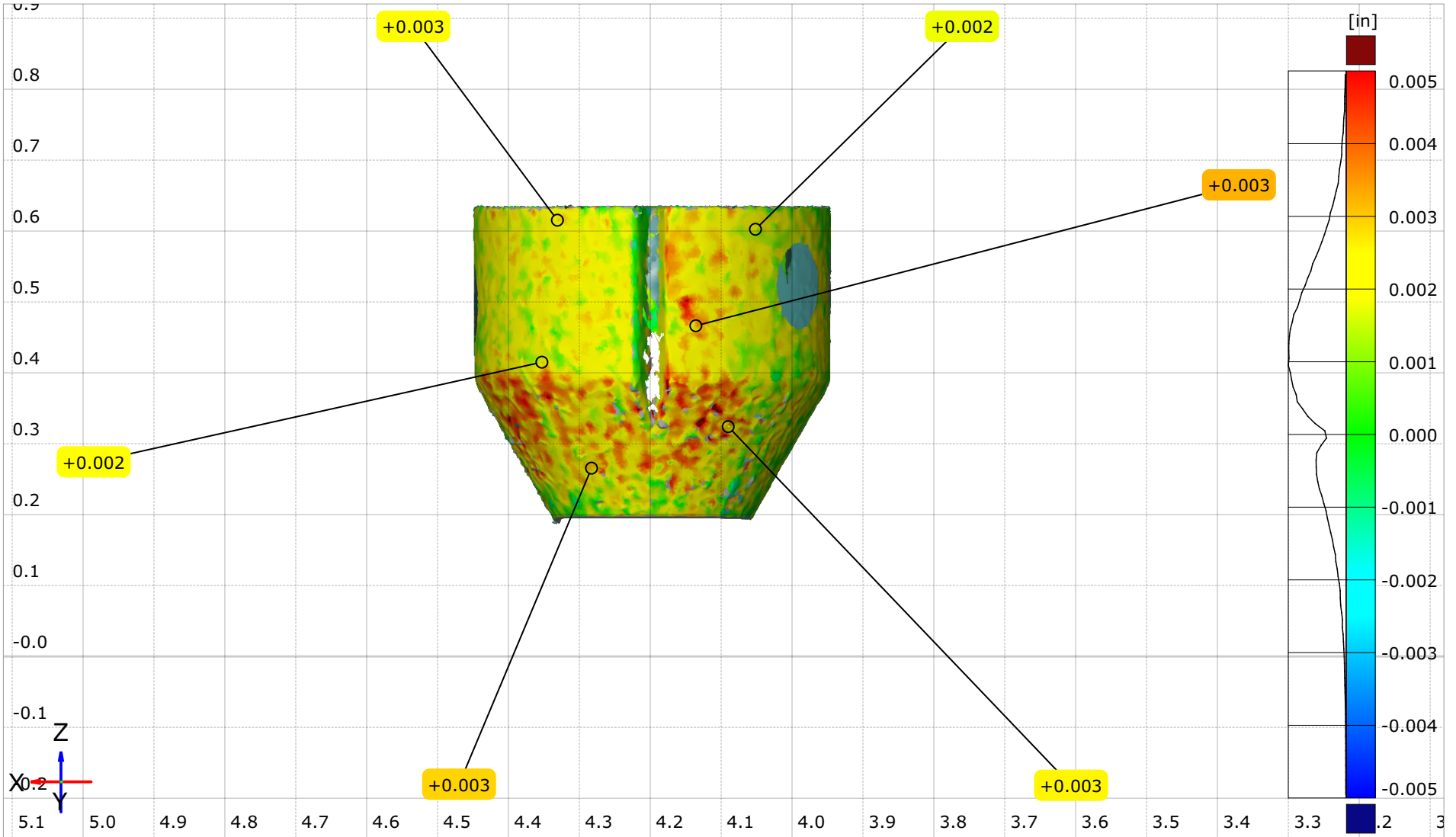
Alignment By Geometric Elements

Length unit: in

3D Deviation - Left View, Segment 2

9_0333_CC5_Segment2

Deviation reference: 9_0333_CC5_Segment5



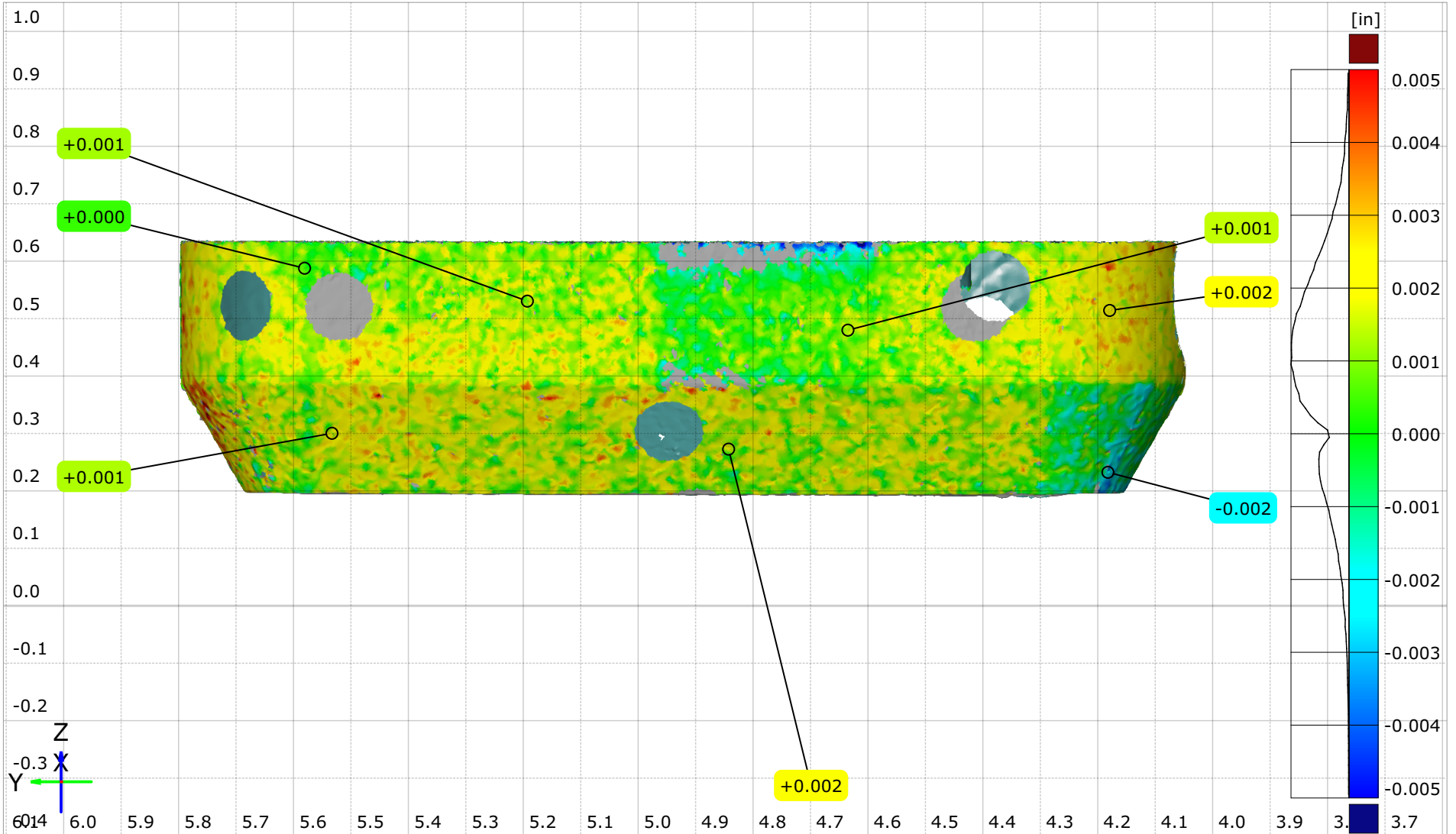
Alignment By Geometric Elements

Length unit: in

3D Deviation - Back View, Segment 2

9_0333_CC5_Segment2

Deviation reference: 9_0333_CC5_Segment5



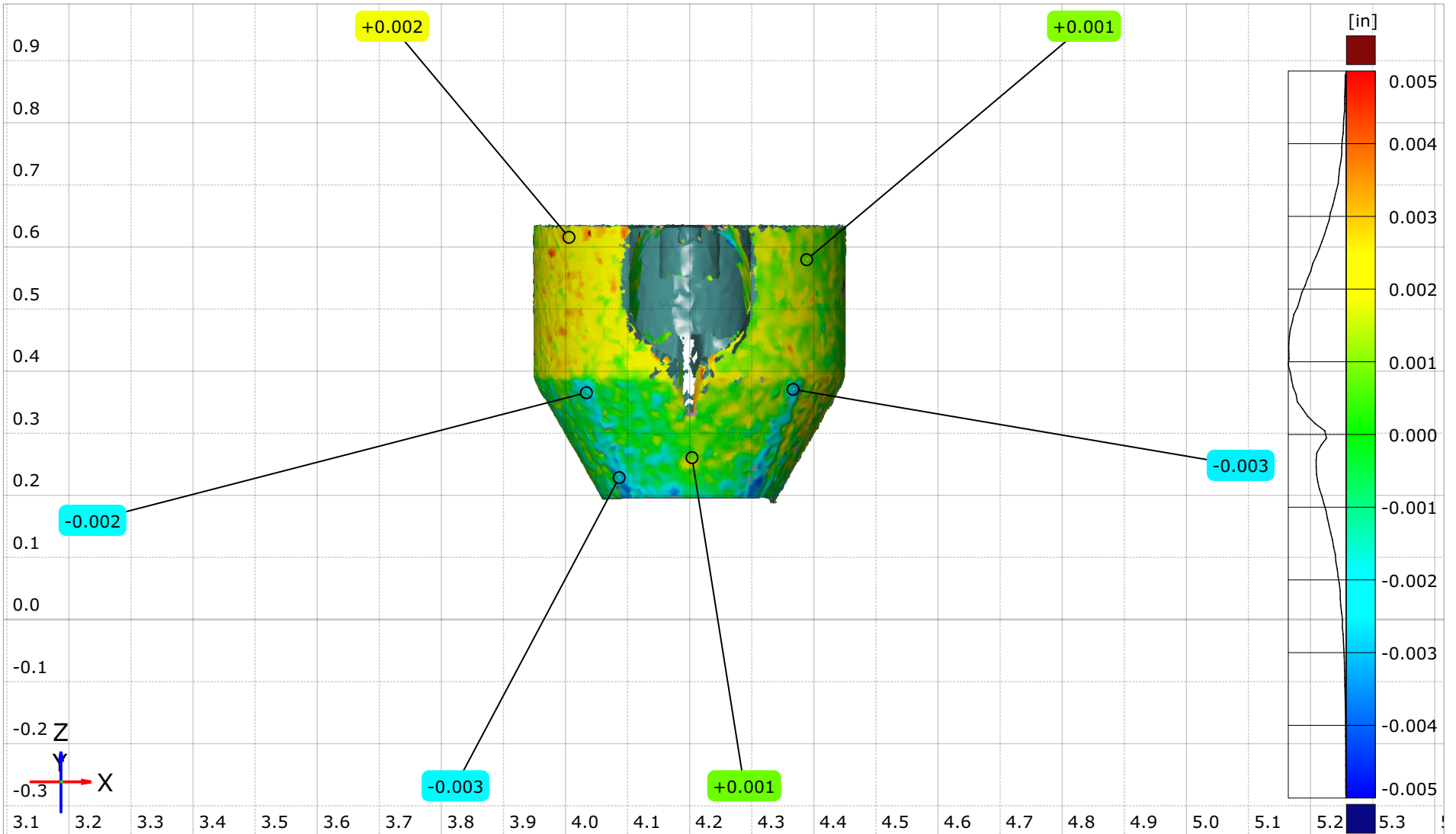
Alignment By Geometric Elements

Length unit: in

3D Deviation - Right View, Segment 2

9_0333_CC5_Segment2

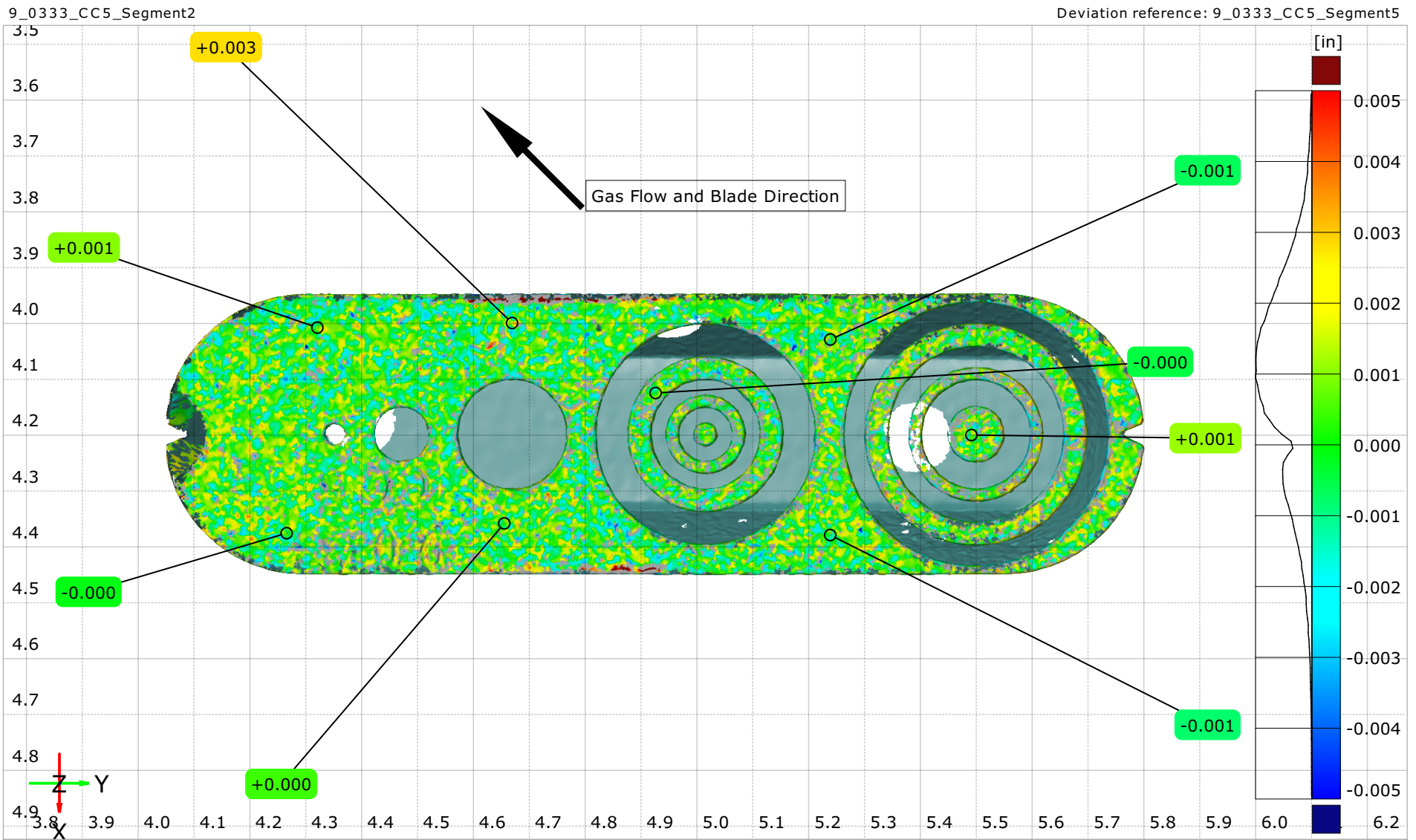
Deviation reference: 9_0333_CC5_Segment5



Alignment By Geometric Elements

Length unit: in

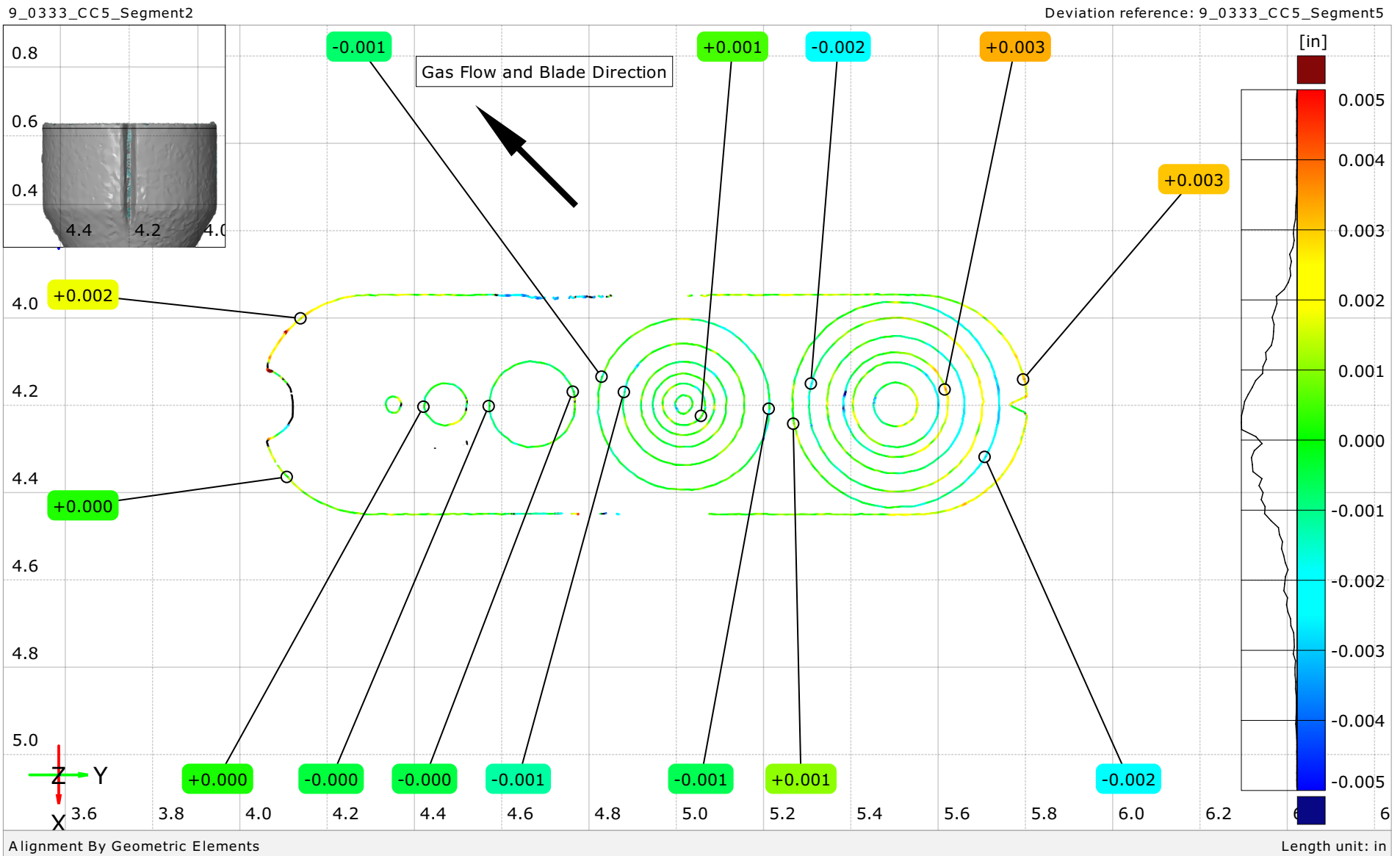
3D Deviation - Top View, Segment 2



Alignment By Geometric Elements

Length unit: in

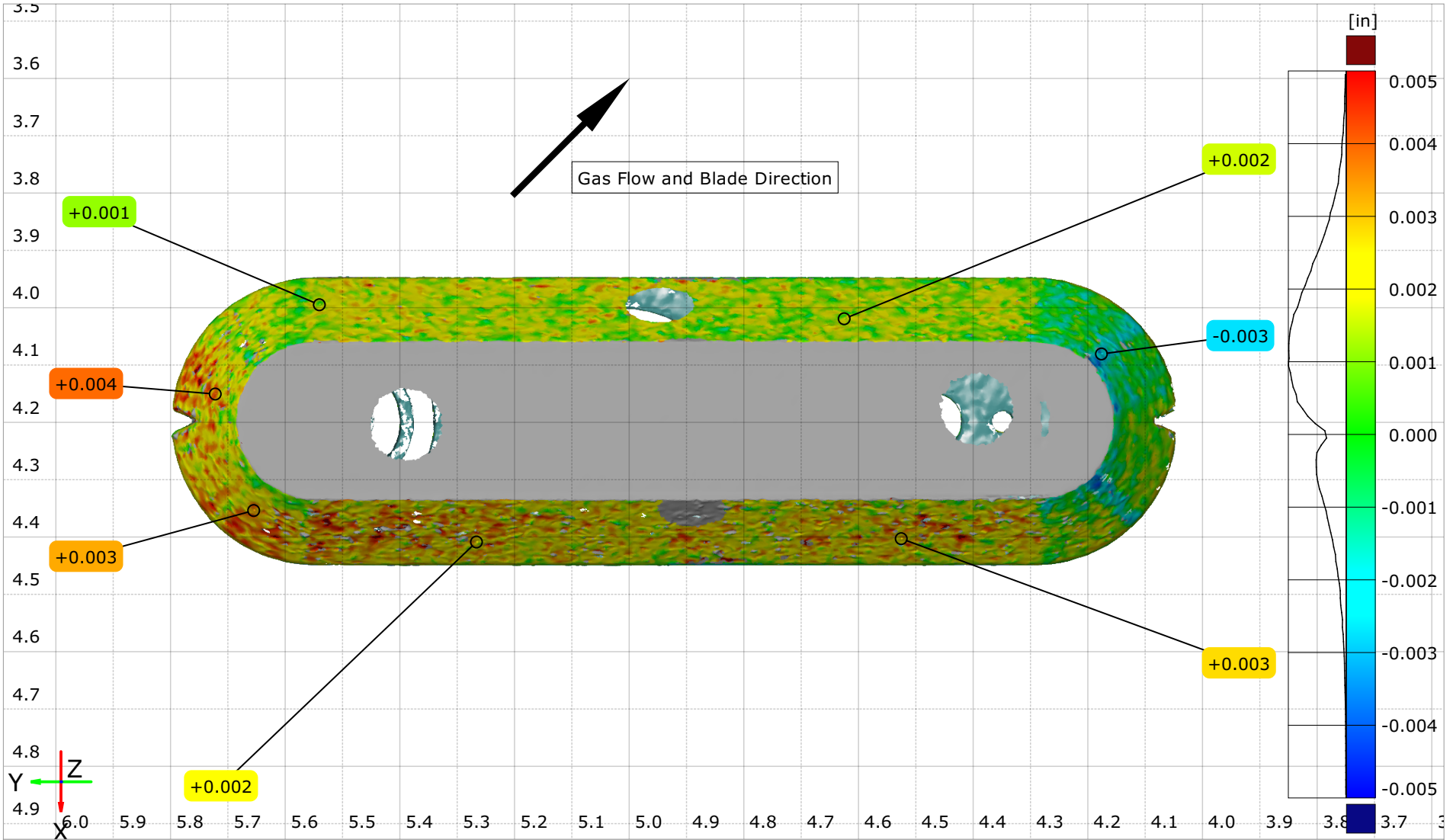
2D Deviation - Top View, Segment 2 Offset from Plane 1 by -0.010in



3D Deviation - Bottom View, Segment 2

9_0333_CC5_Segment2

Deviation reference: 9_0333_CC5_Segment5



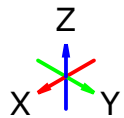
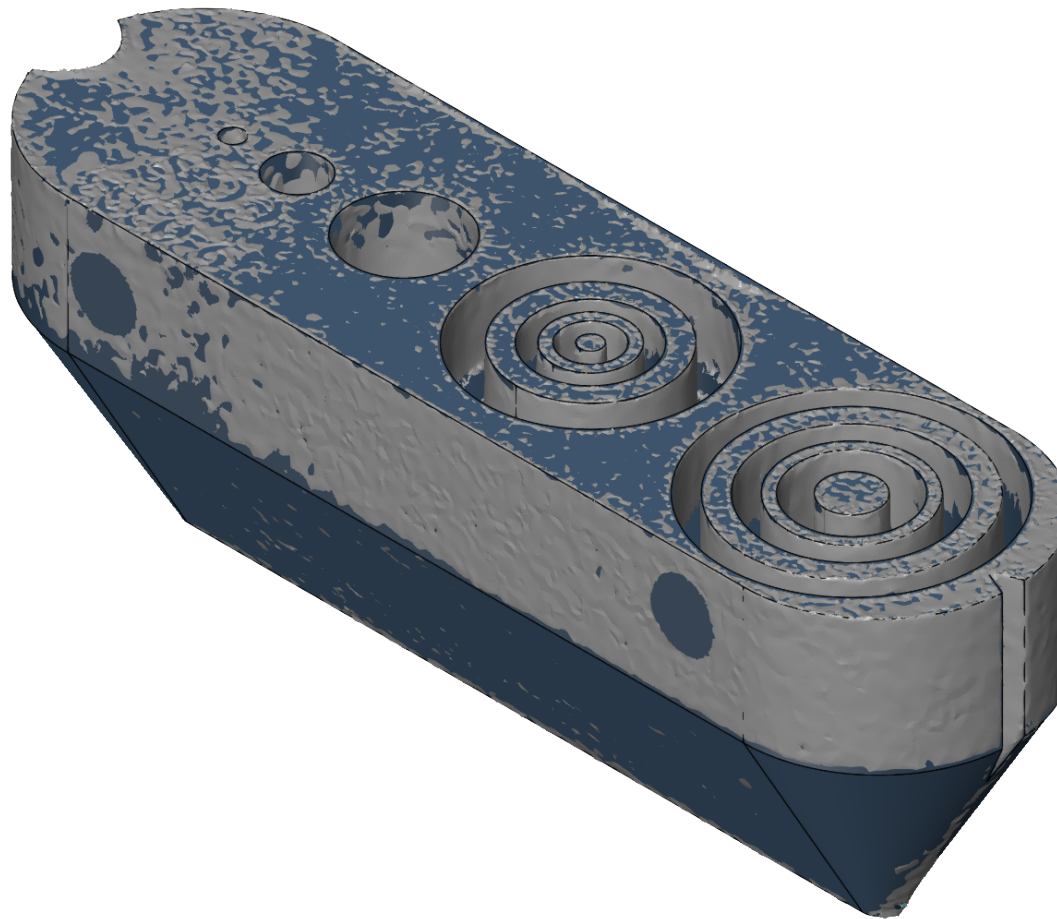
Alignment By Geometric Elements

Length unit: in

CAD Model/Scan Data Overlay - Iso View, Segment 3

9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5



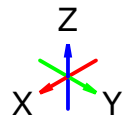
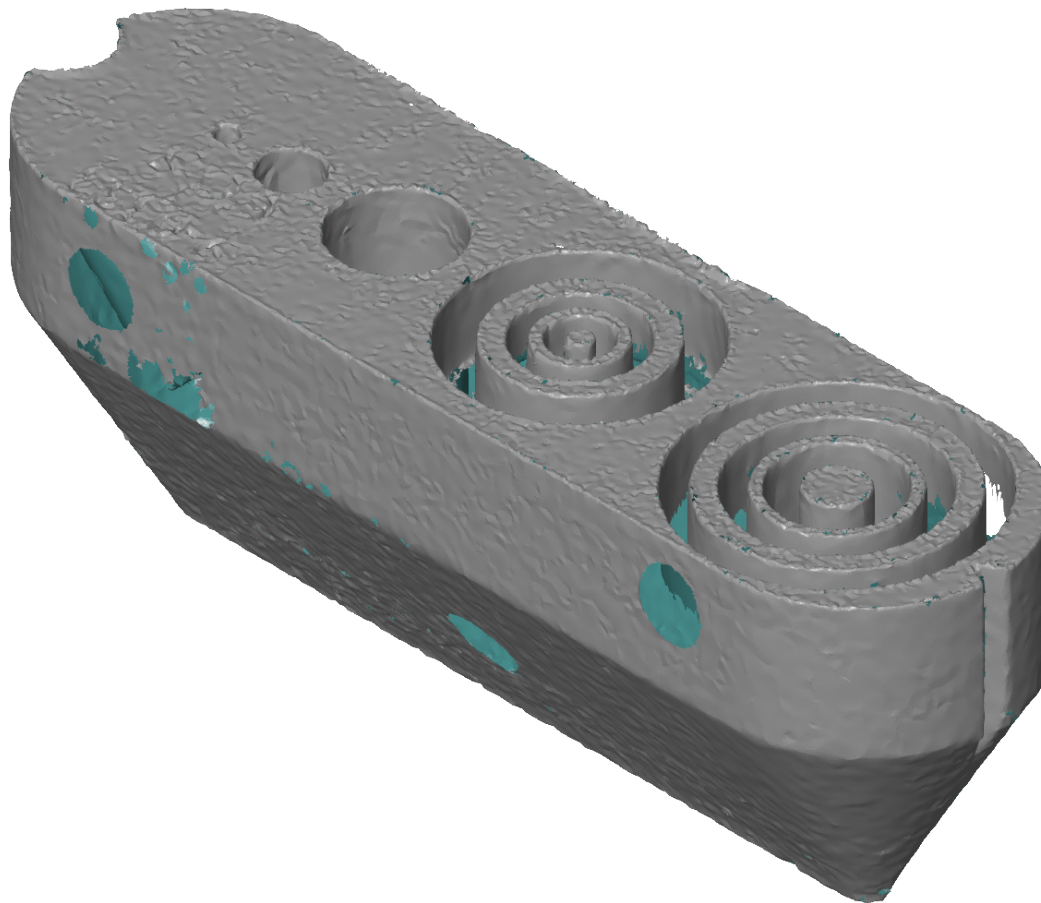
Alignment By Geometric Elements

Length unit: in

Scan Data - Iso View, Segment 3

9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5



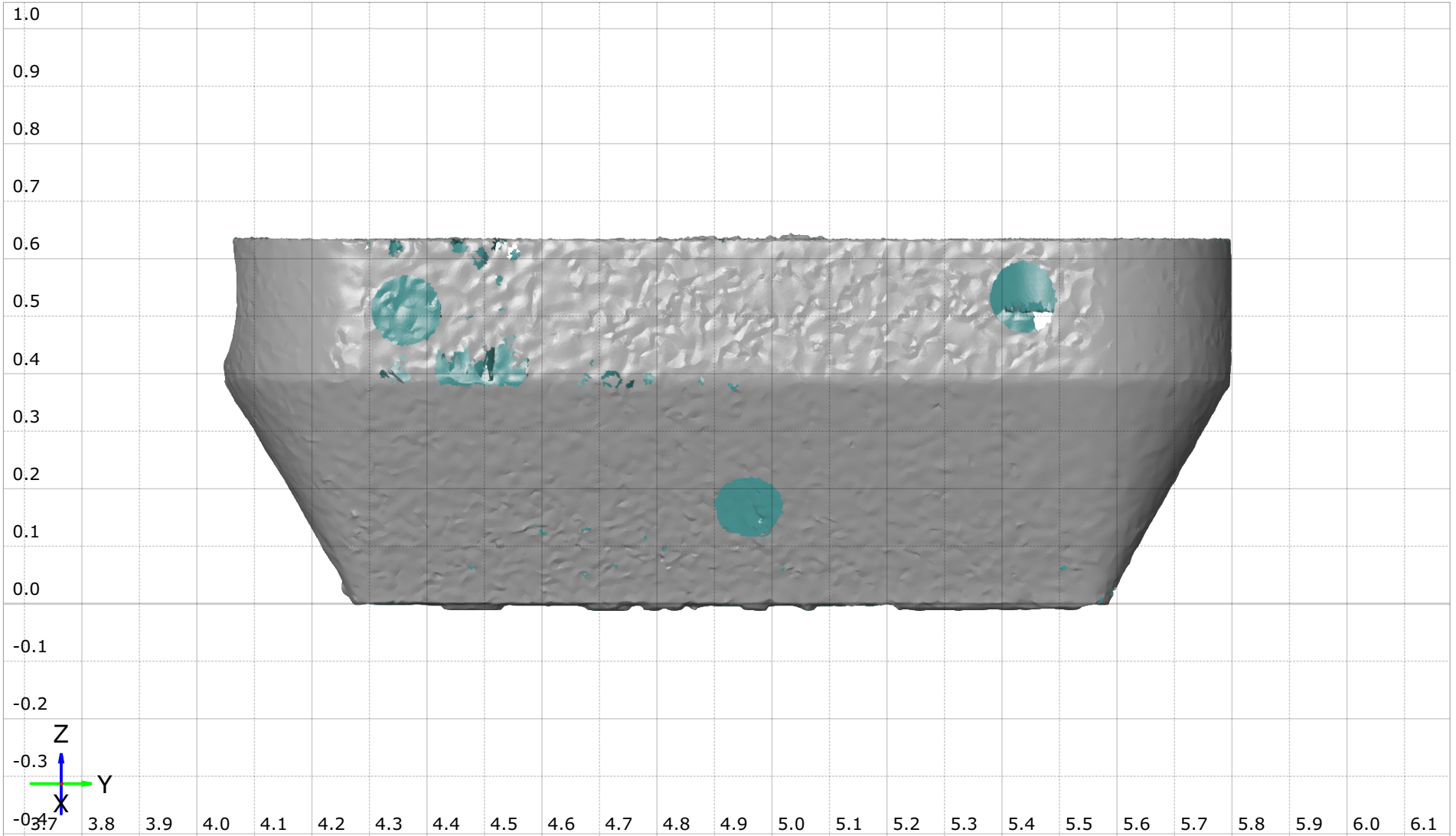
Alignment By Geometric Elements

Length unit: in

Scan Data - Front View, Segment 3

9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5



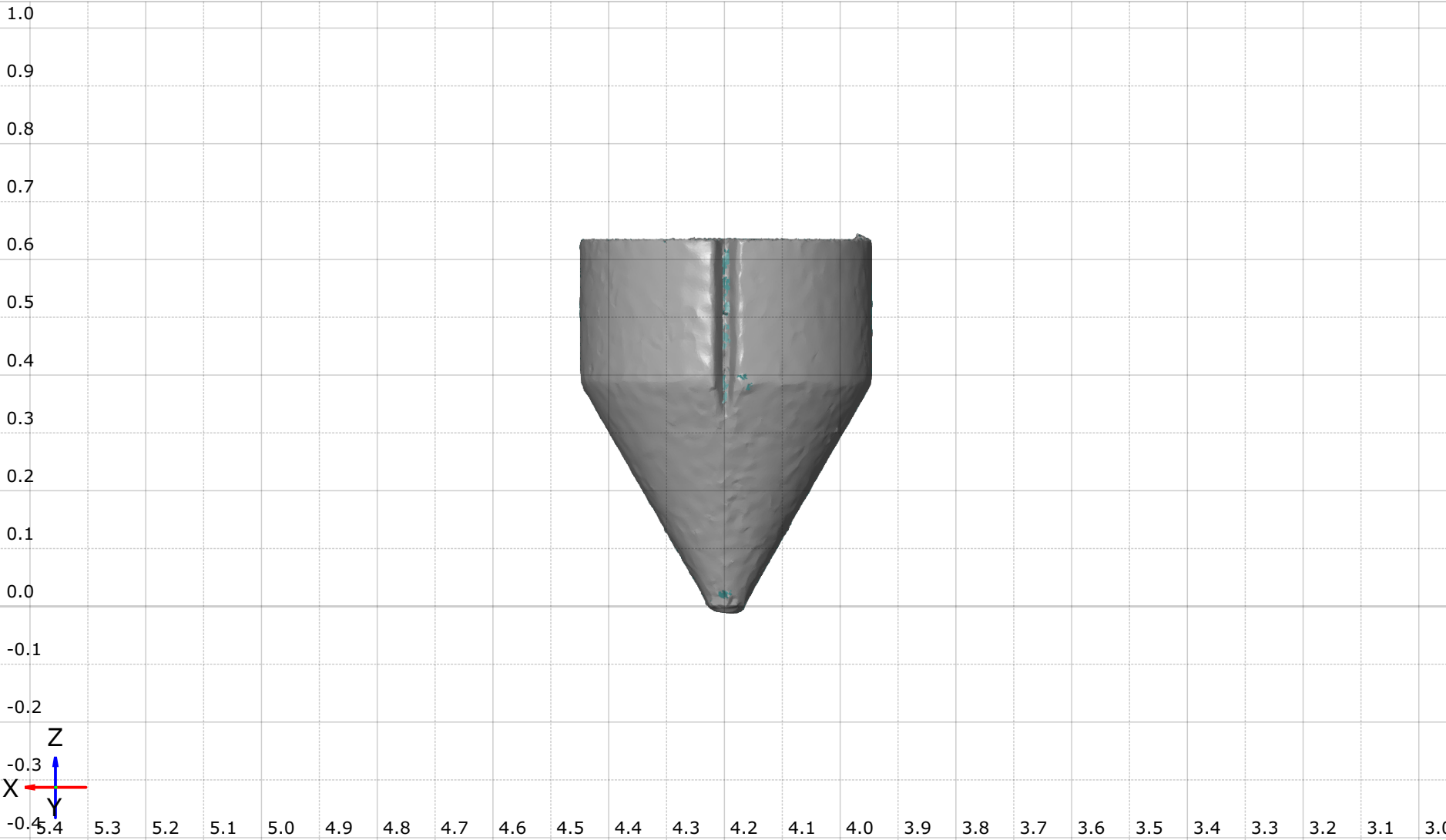
Alignment By Geometric Elements

Length unit: in

Scan Data - Left View, Segment 3

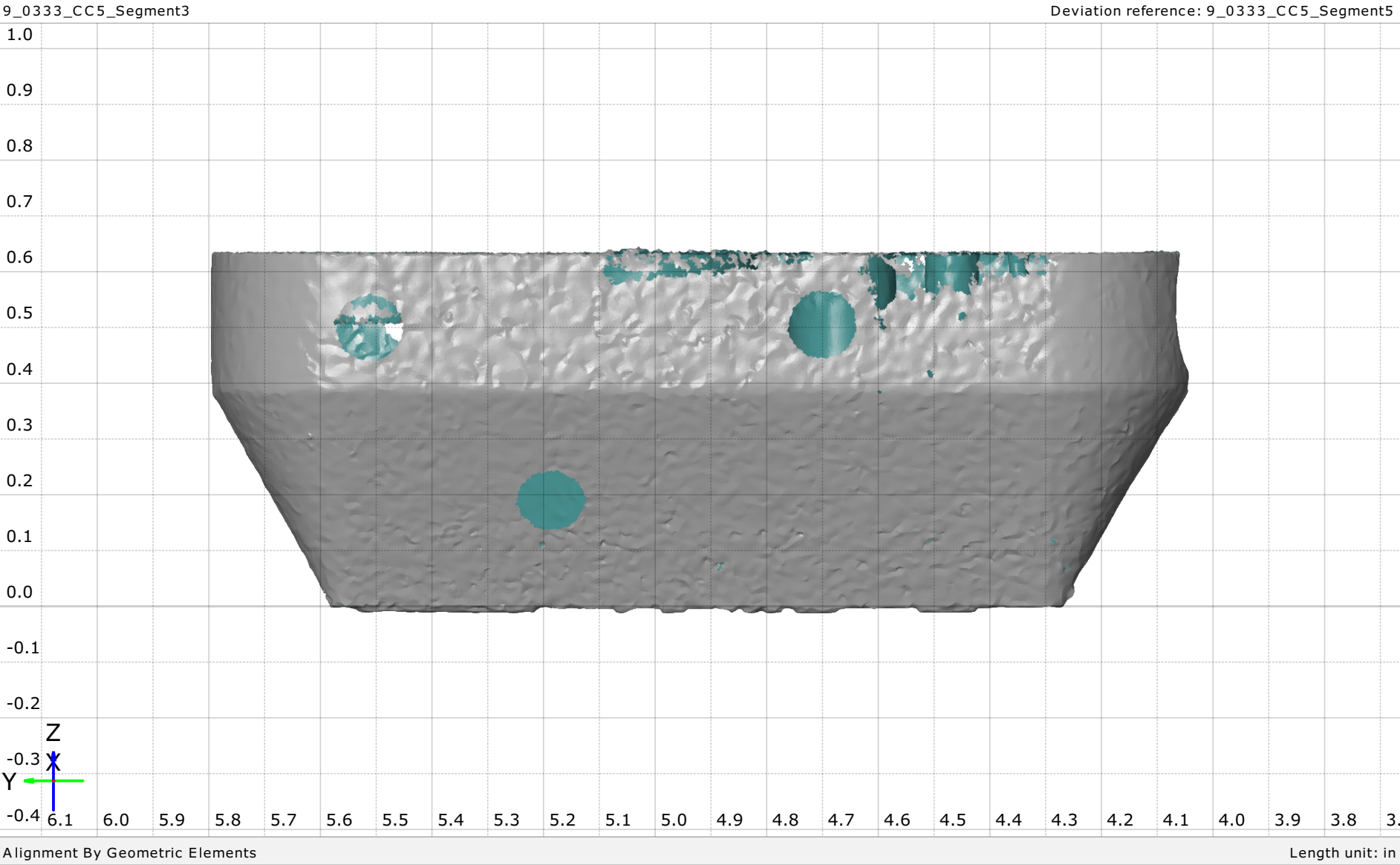
9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5

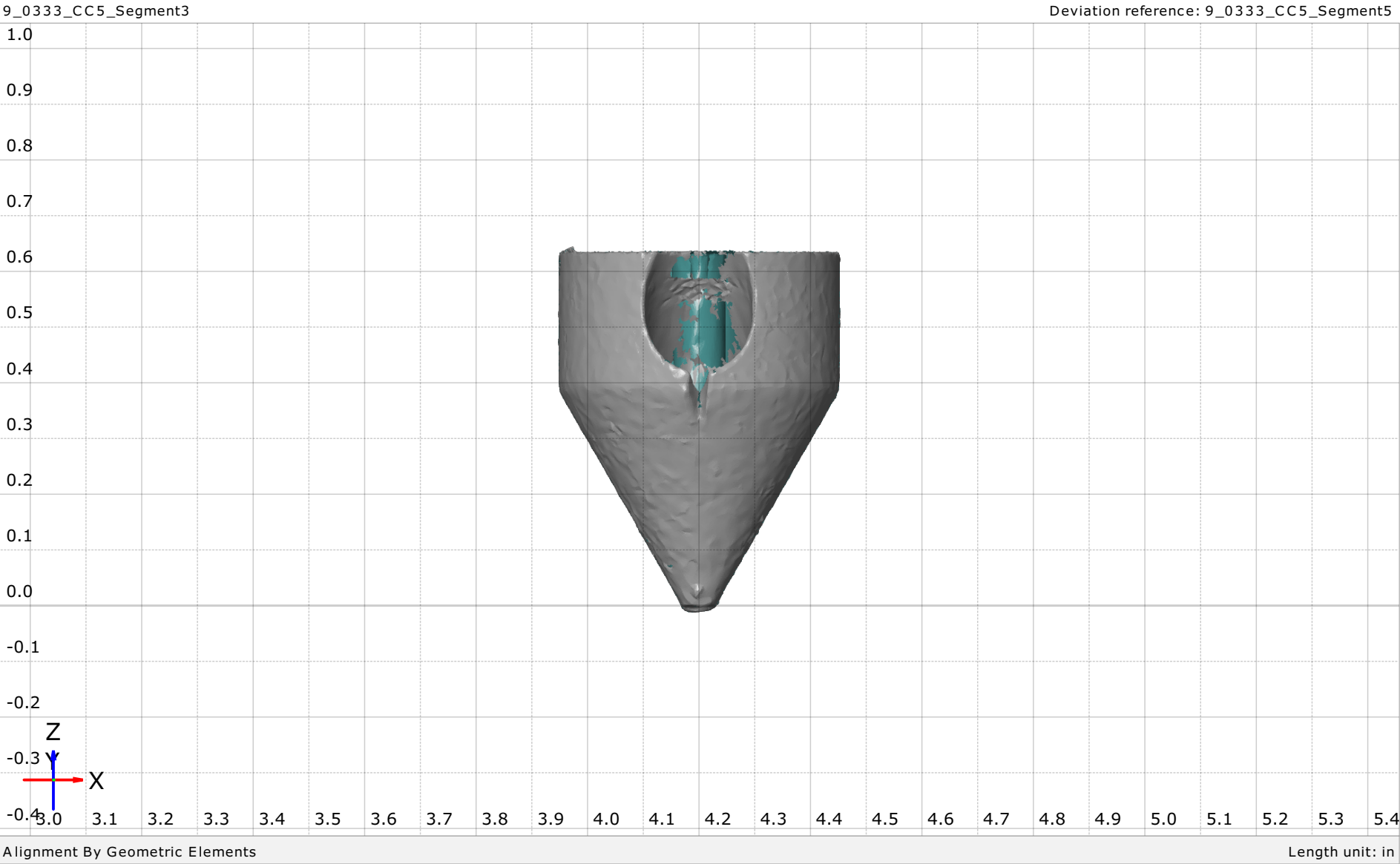


Alignment By Geometric Elements Length unit: in

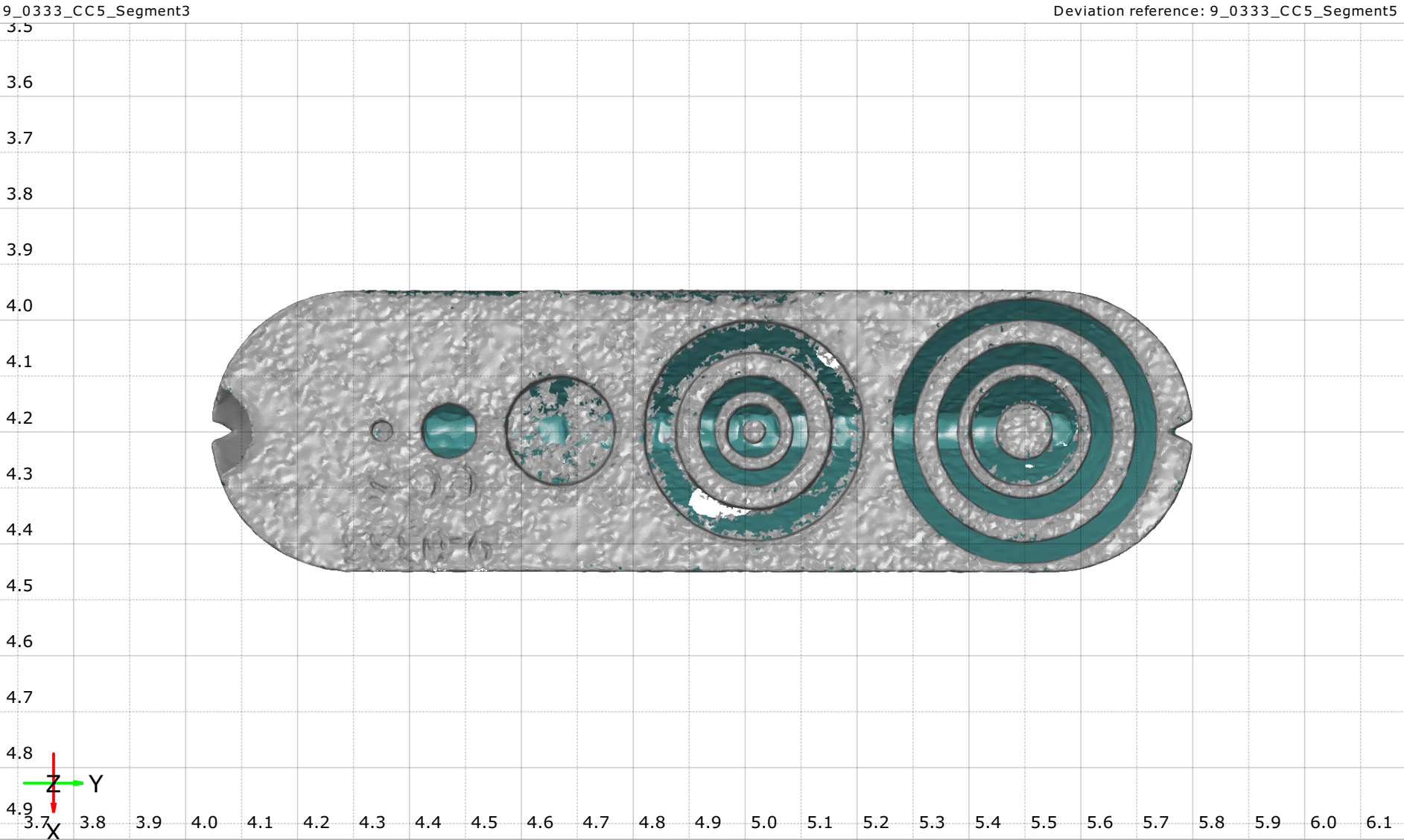
Scan Data - Back View, Segment 3



Scan Data - Right View, Segment 3



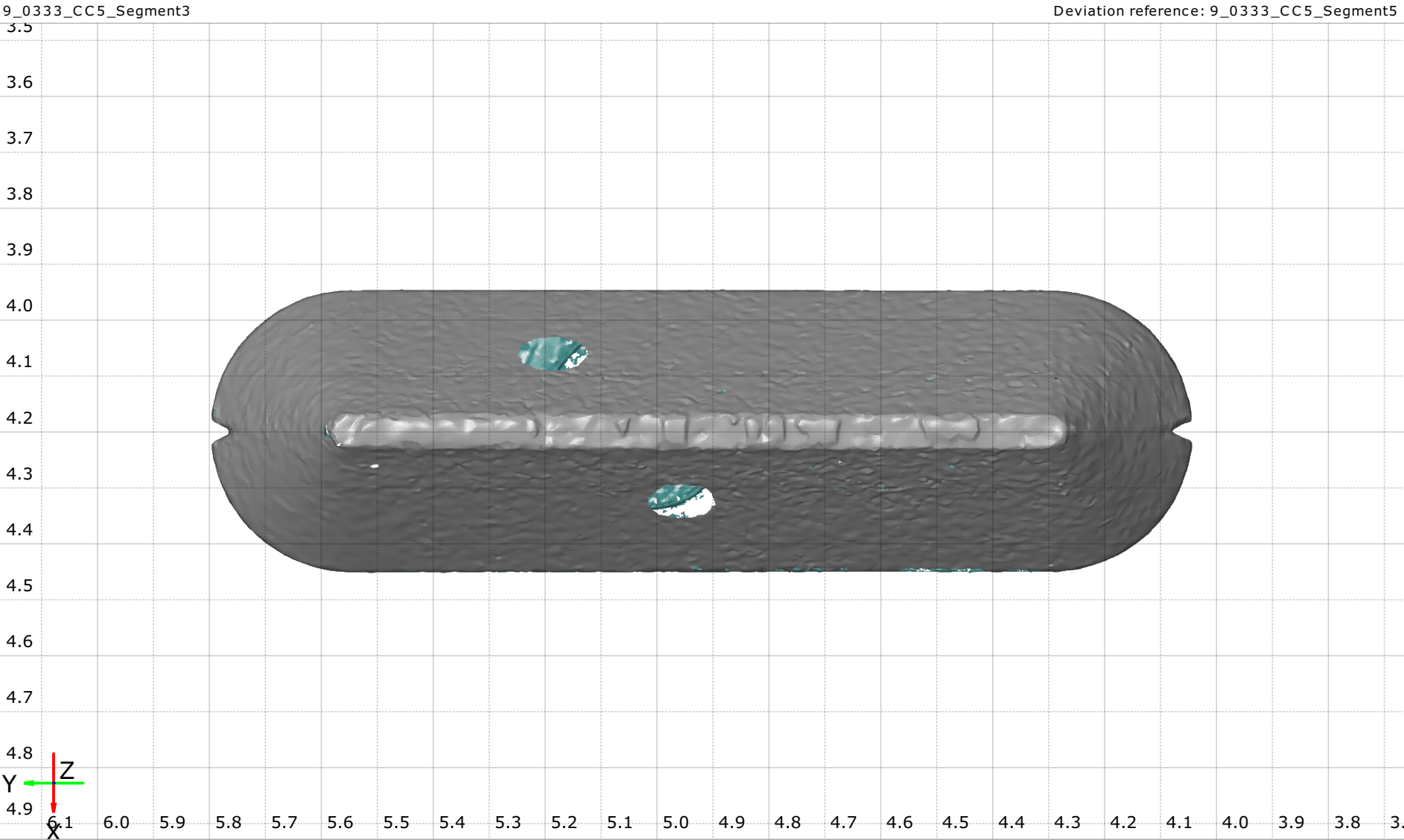
Scan Data - Top View, Segment 3



Alignment By Geometric Elements

Length unit: in

Scan Data - Bottom View, Segment 3

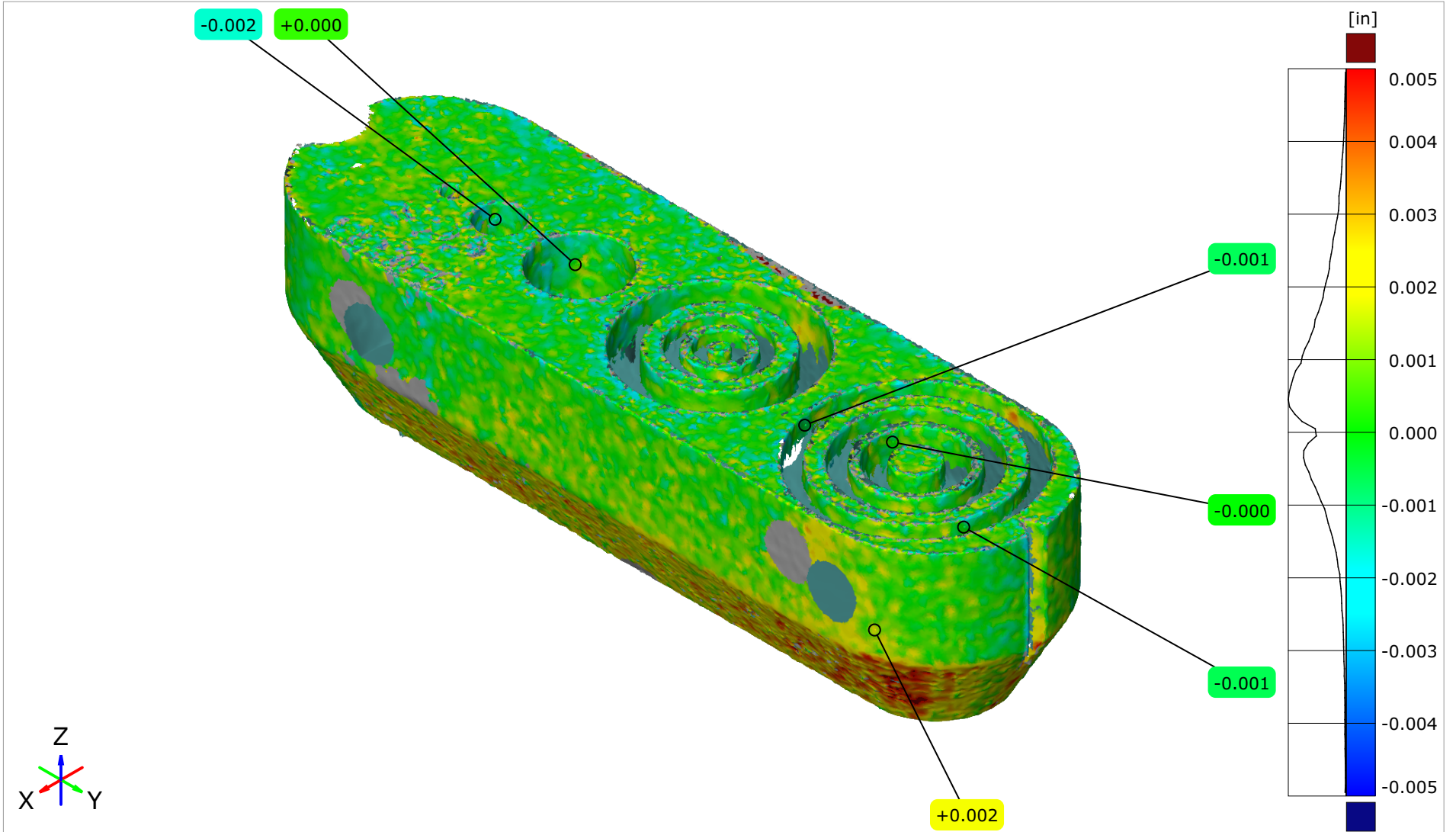


Alignment By Geometric Elements Length unit: in

3D Deviation - Iso View, Segment 3

9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5



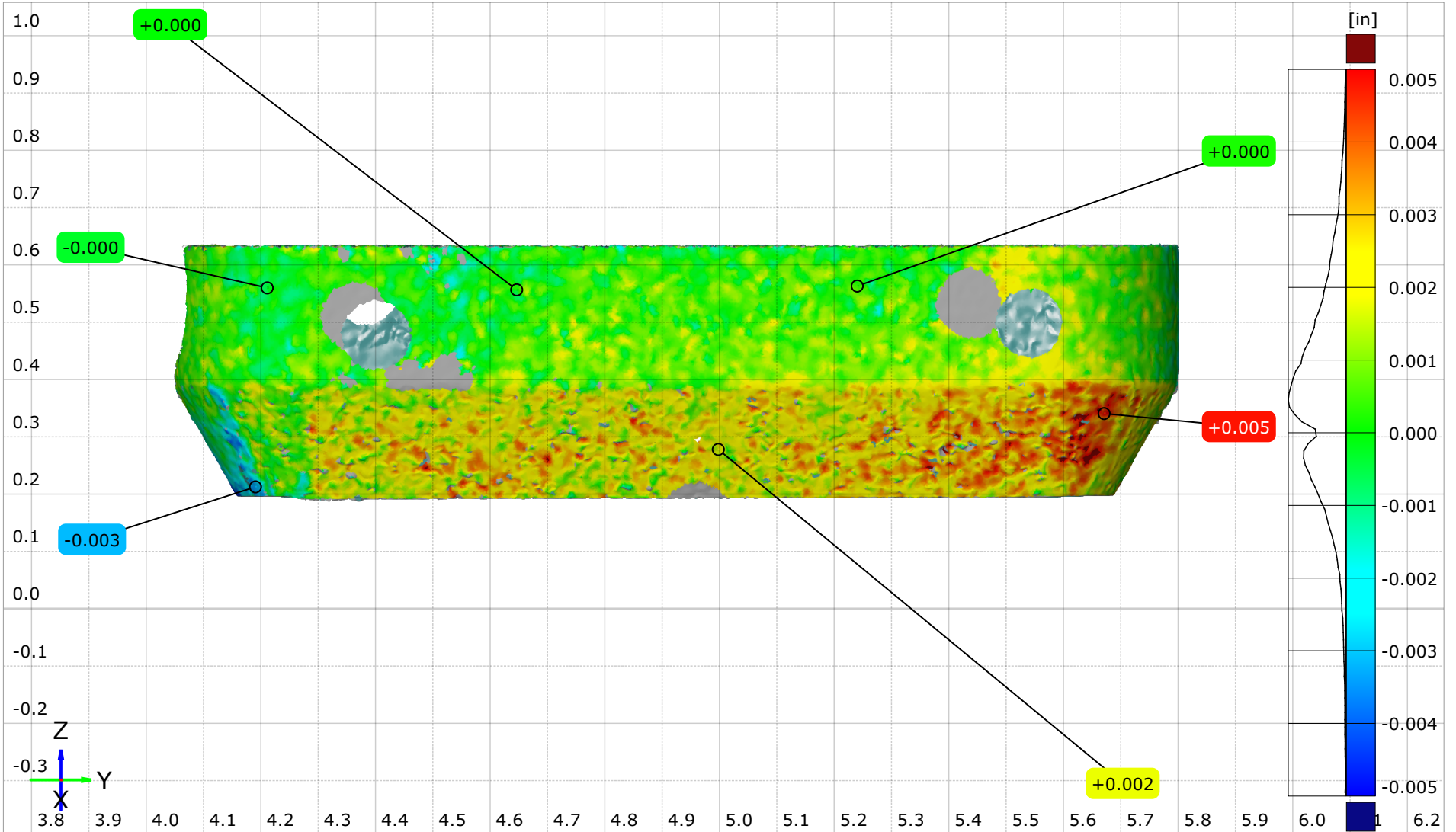
Alignment By Geometric Elements

Length unit: in

3D Deviation - Front View, Segment 3

9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5



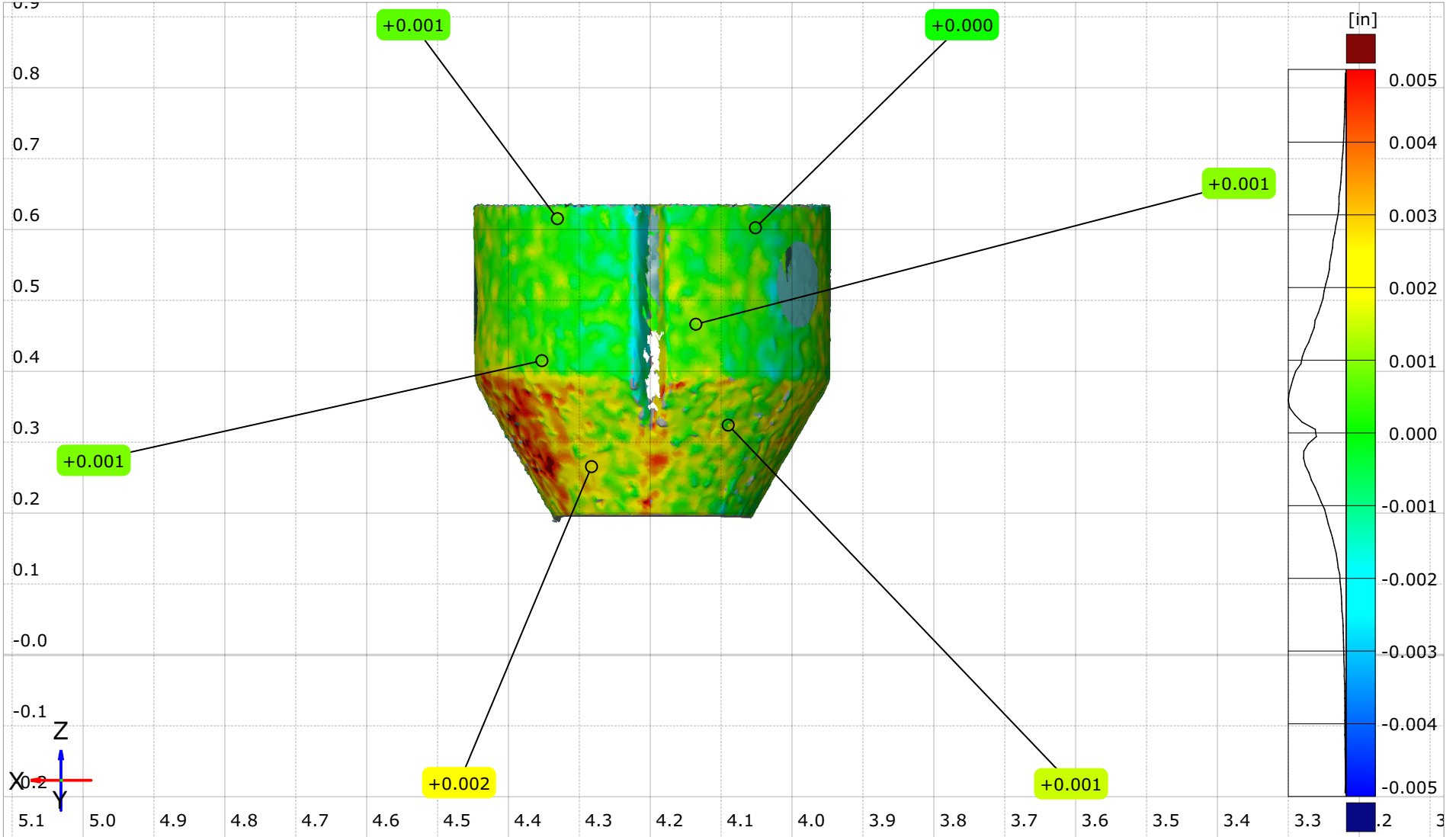
Alignment By Geometric Elements

Length unit: in

3D Deviation - Left View, Segment 3

9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5



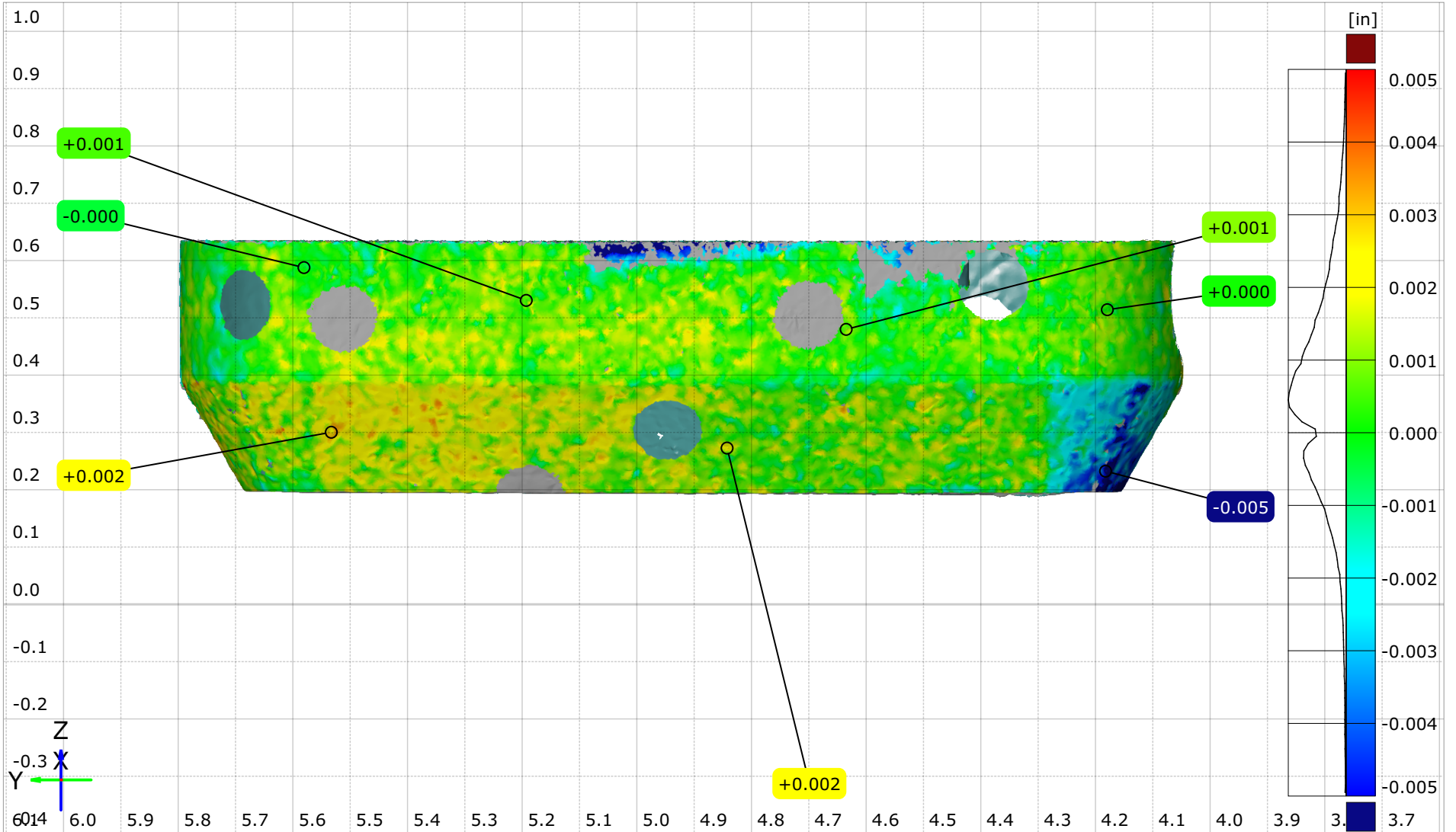
Alignment By Geometric Elements

Length unit: in

3D Deviation - Back View, Segment 3

9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5



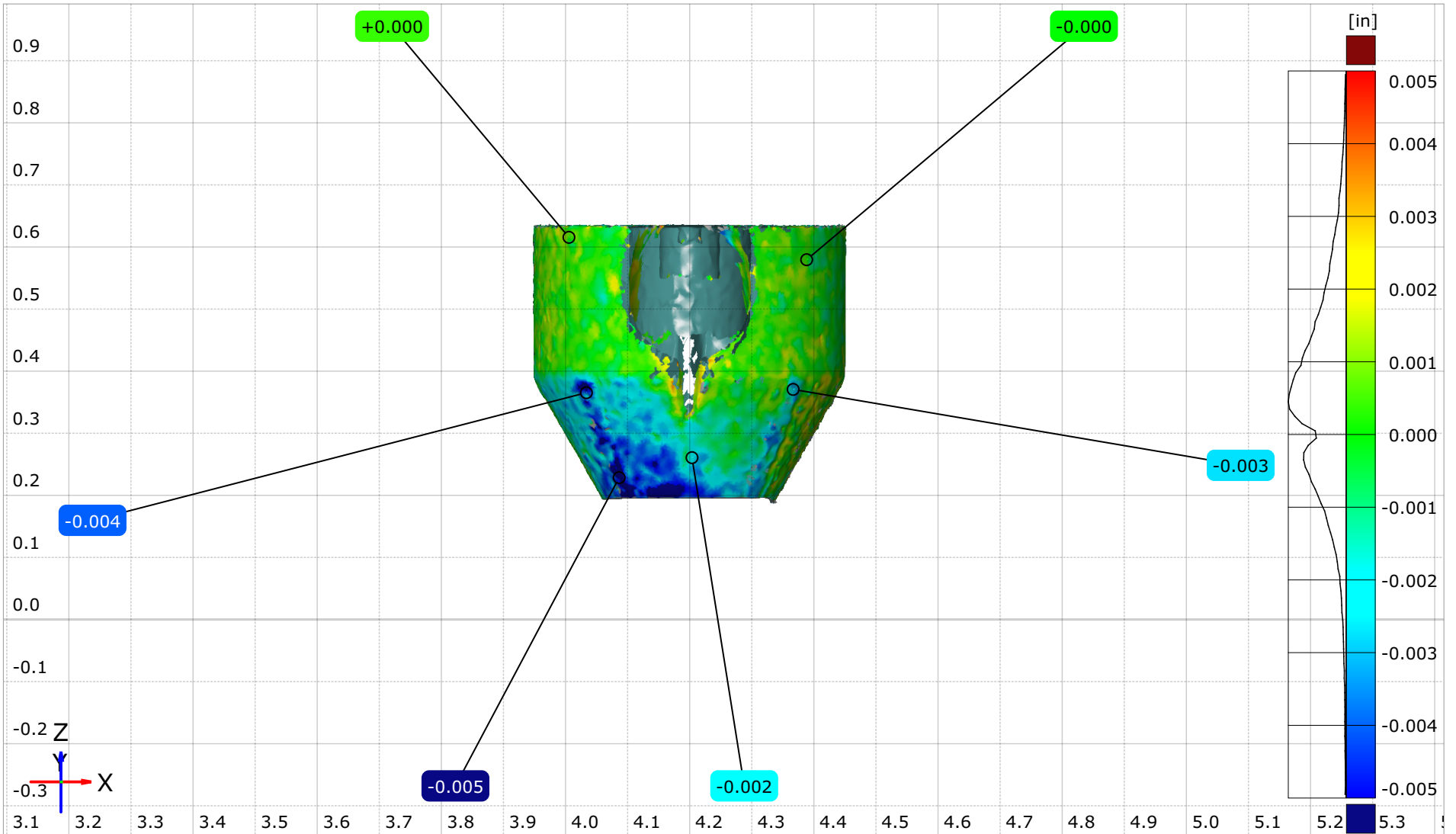
Alignment By Geometric Elements

Length unit: in

3D Deviation - Right View, Segment 3

9_0333_CC5_Segment3

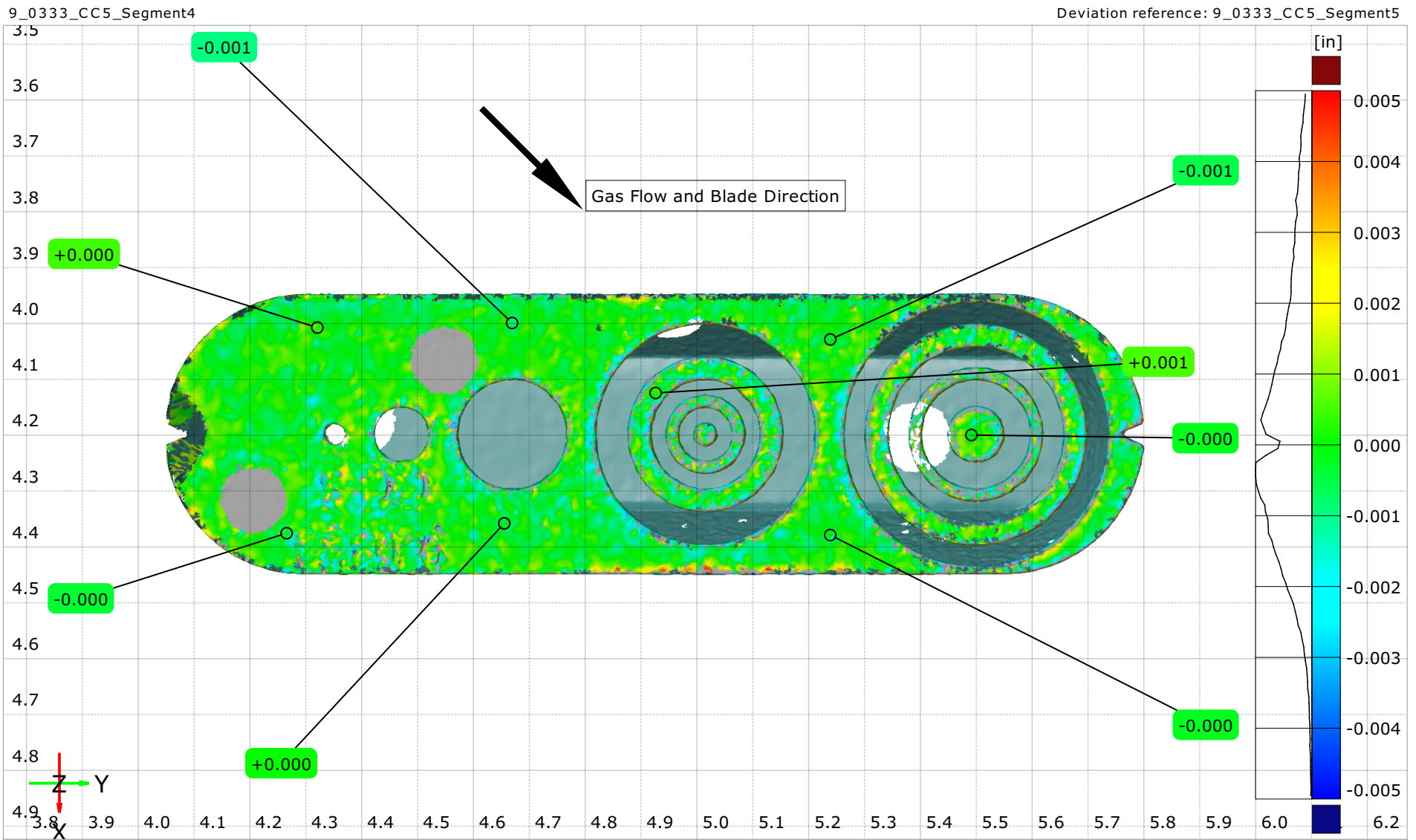
Deviation reference: 9_0333_CC5_Segment5



Alignment By Geometric Elements

Length unit: in

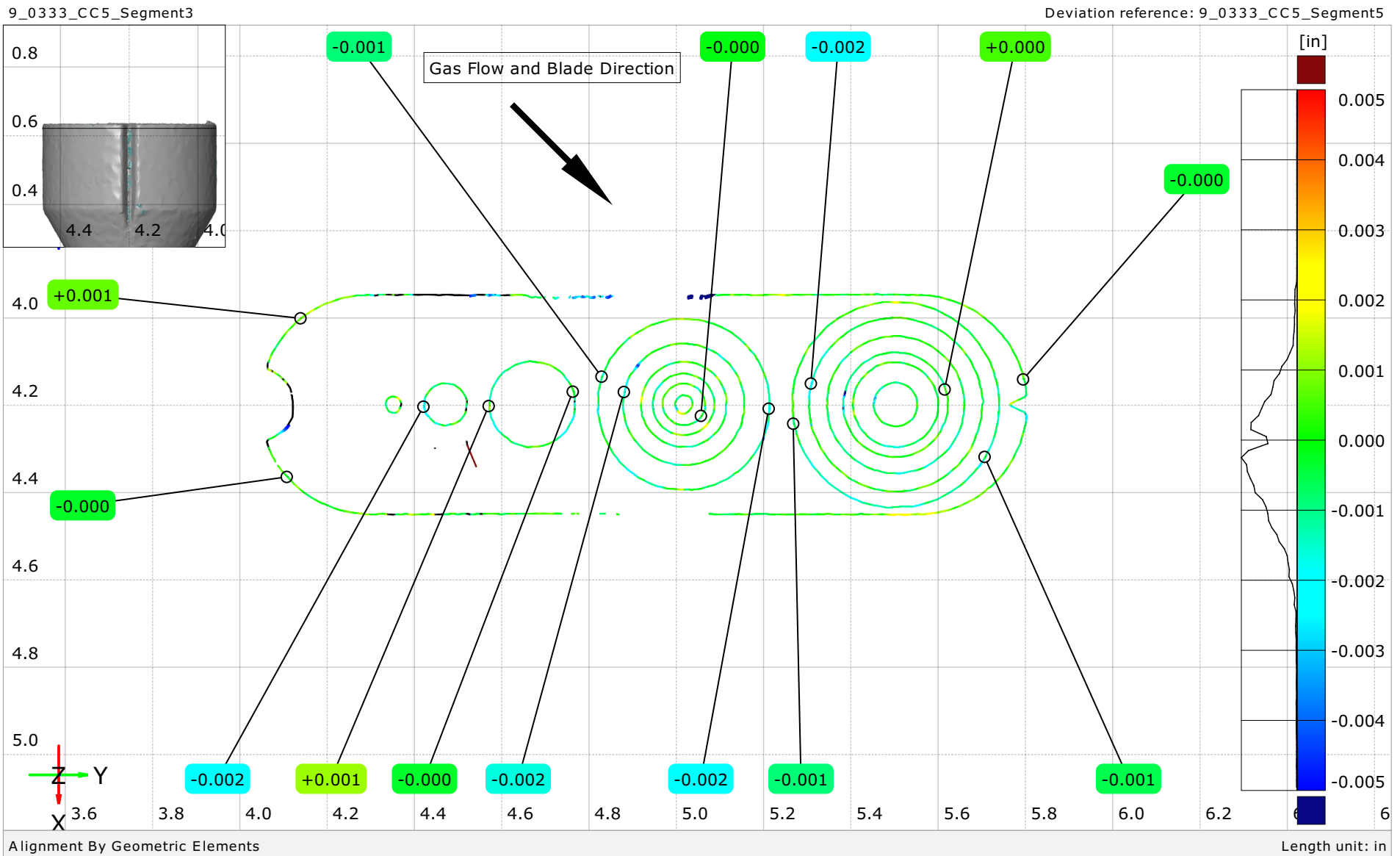
3D Deviation - Top View, Segment 3



Alignment By Geometric Elements

Length unit: in

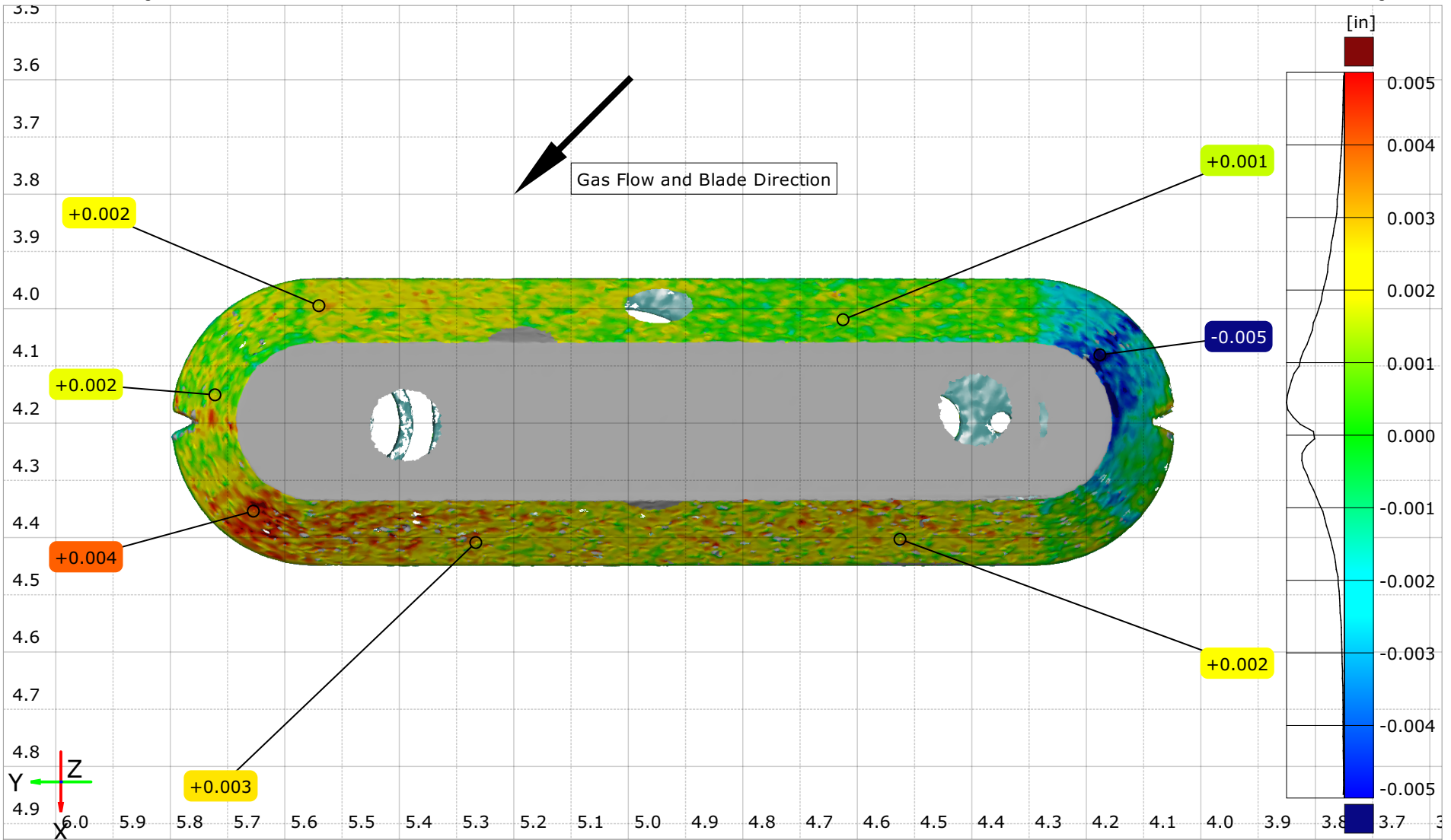
2D Deviation - Top View, Segment 3 Offset from Plane 1 by -0.010in



3D Deviation - Bottom View, Segment 3

9_0333_CC5_Segment3

Deviation reference: 9_0333_CC5_Segment5



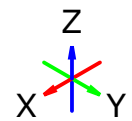
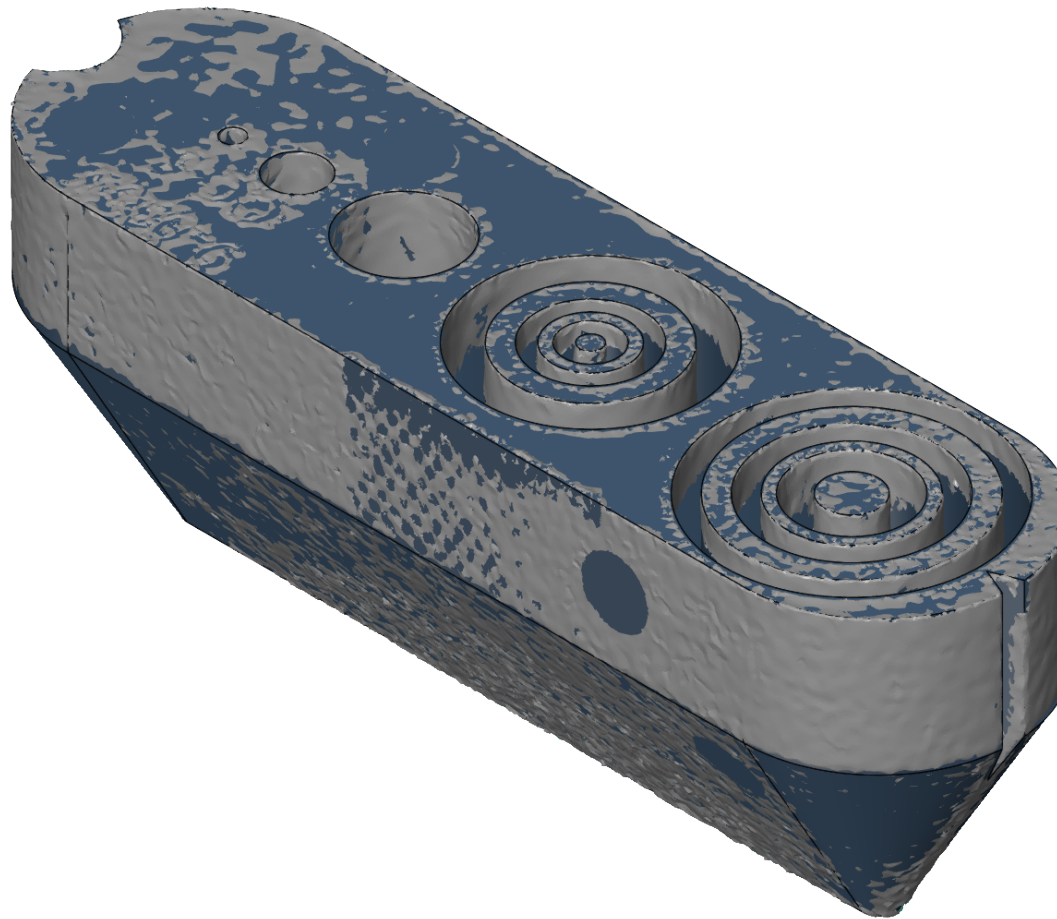
Alignment By Geometric Elements

Length unit: in

CAD Model/Scan Data Overlay - Iso View, Segment 4

9_0333_CC5_Segment4

Deviation reference: 9_0333_CC5_Segment5



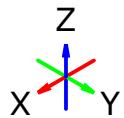
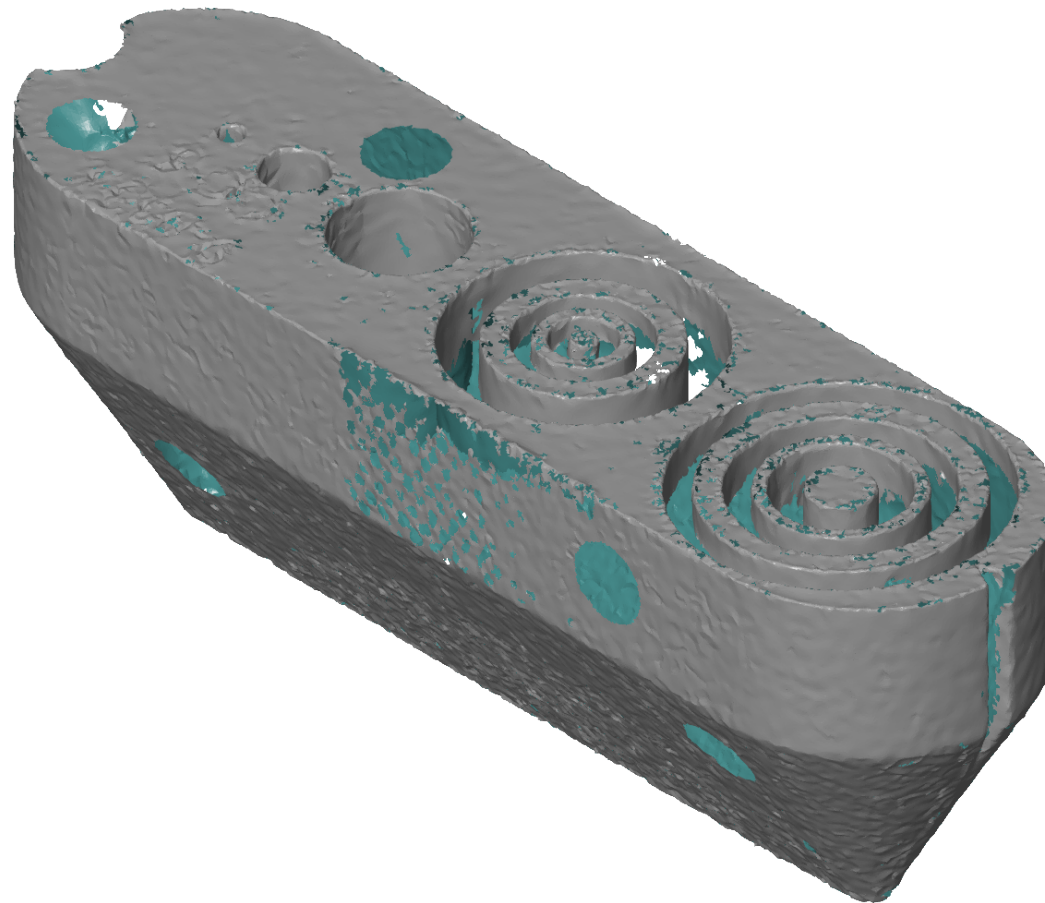
Alignment By Geometric Elements

Length unit: in

Scan Data - Iso View, Segment 4

9_0333_CC5_Segment4

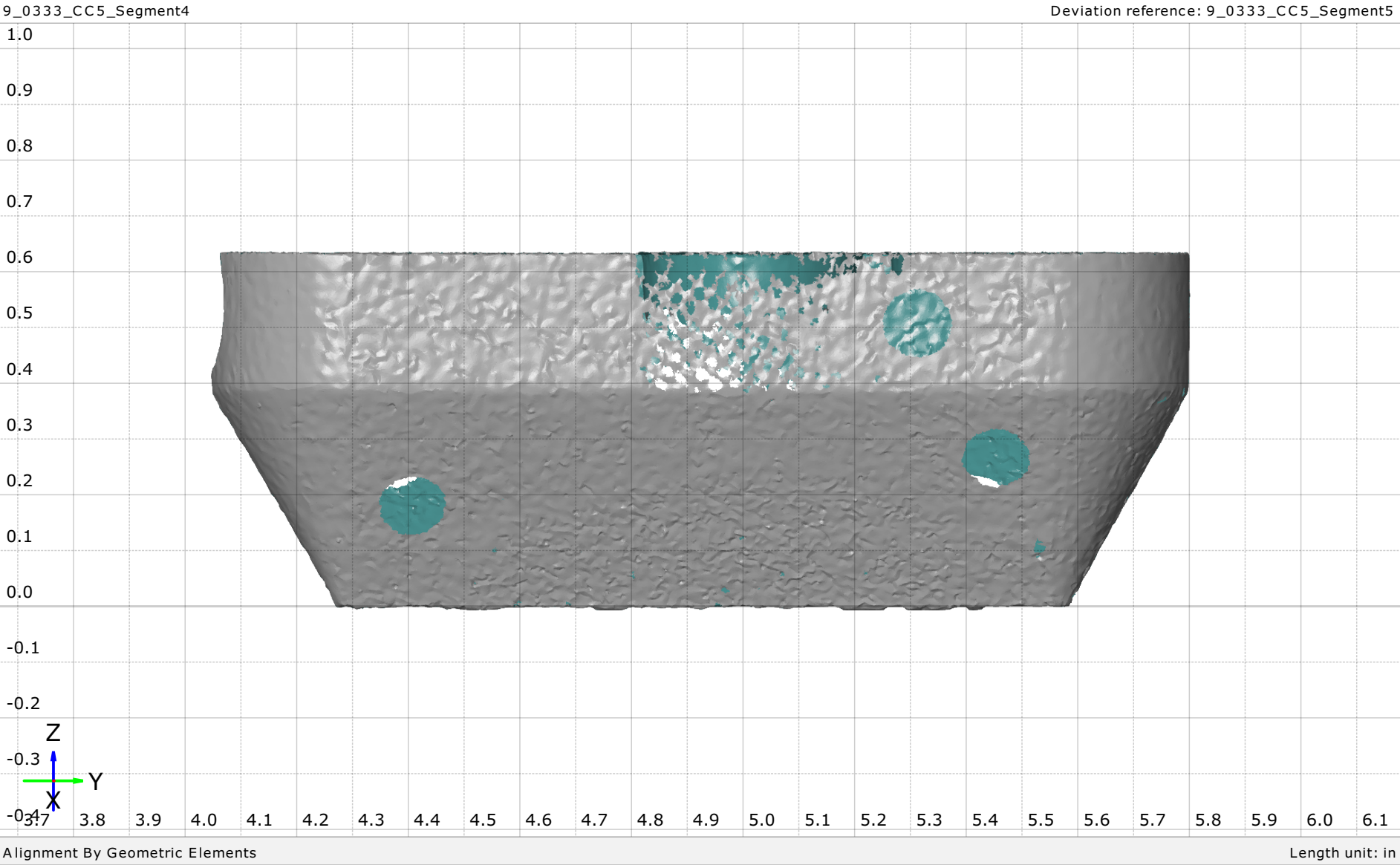
Deviation reference: 9_0333_CC5_Segment5



Alignment By Geometric Elements

Length unit: in

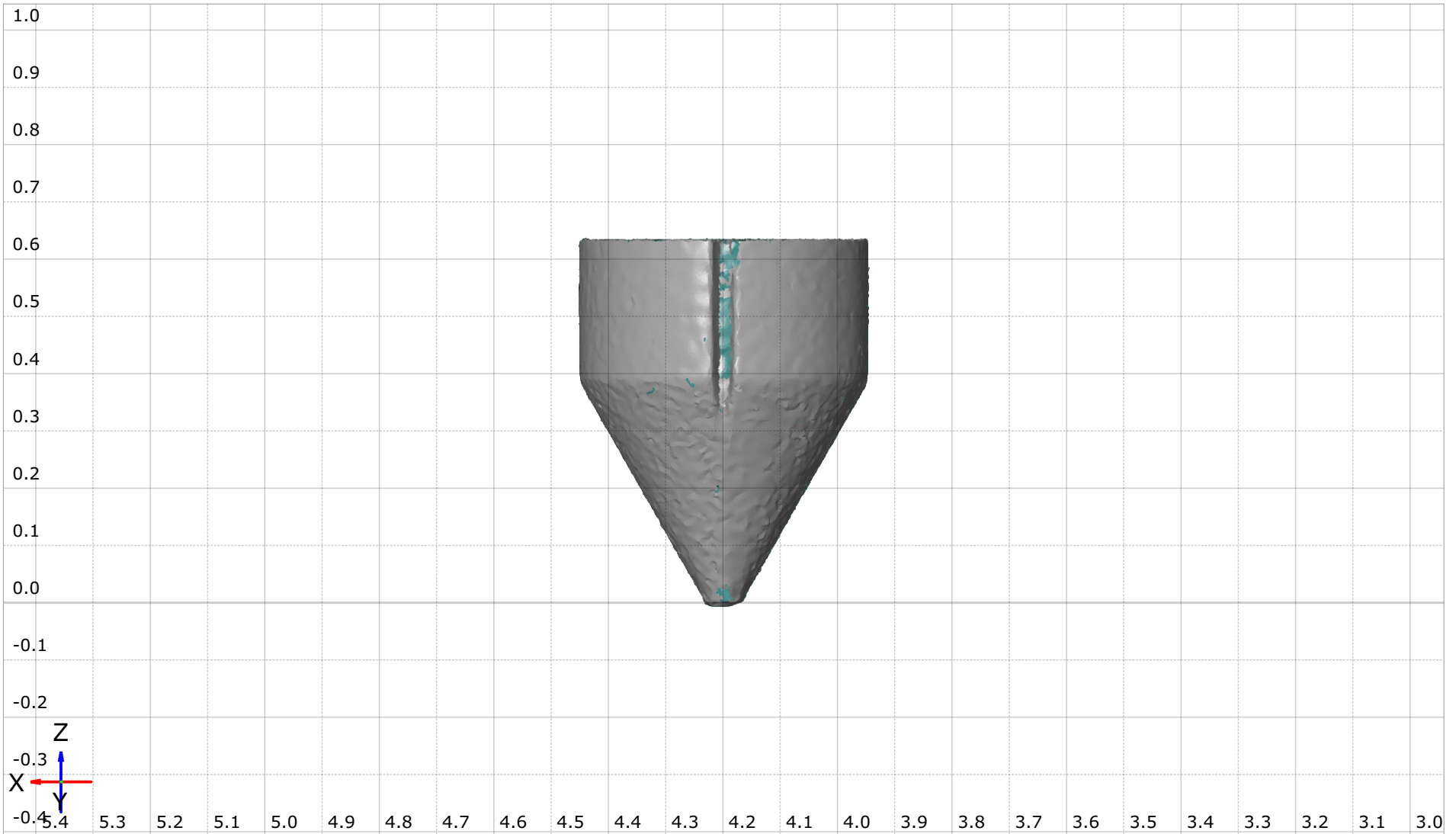
Scan Data - Front View, Segment 4



Scan Data - Left View, Segment 4

9_0333_CC5_Segment4

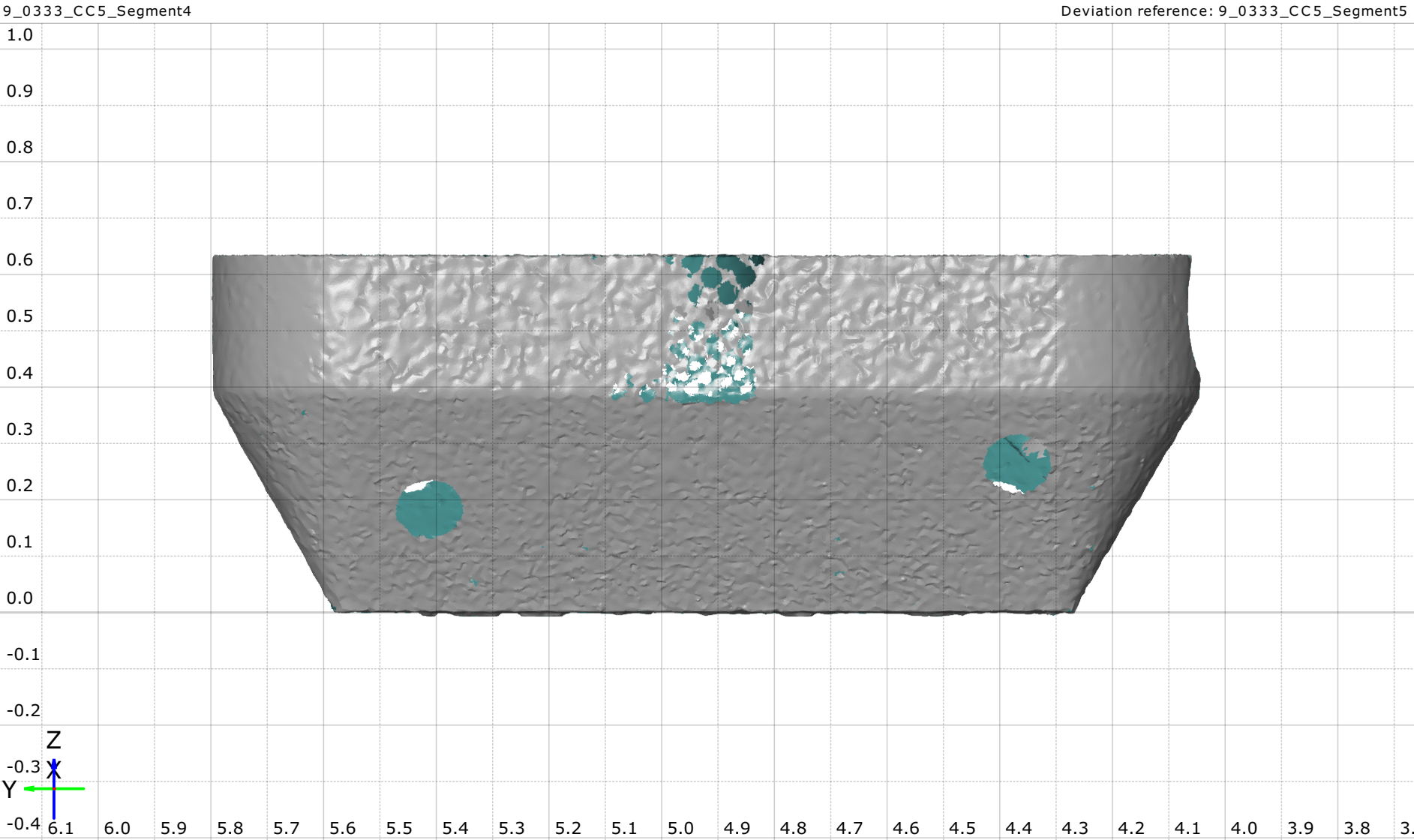
Deviation reference: 9_0333_CC5_Segment5



Alignment By Geometric Elements

Length unit: in

Scan Data - Back View, Segment 4

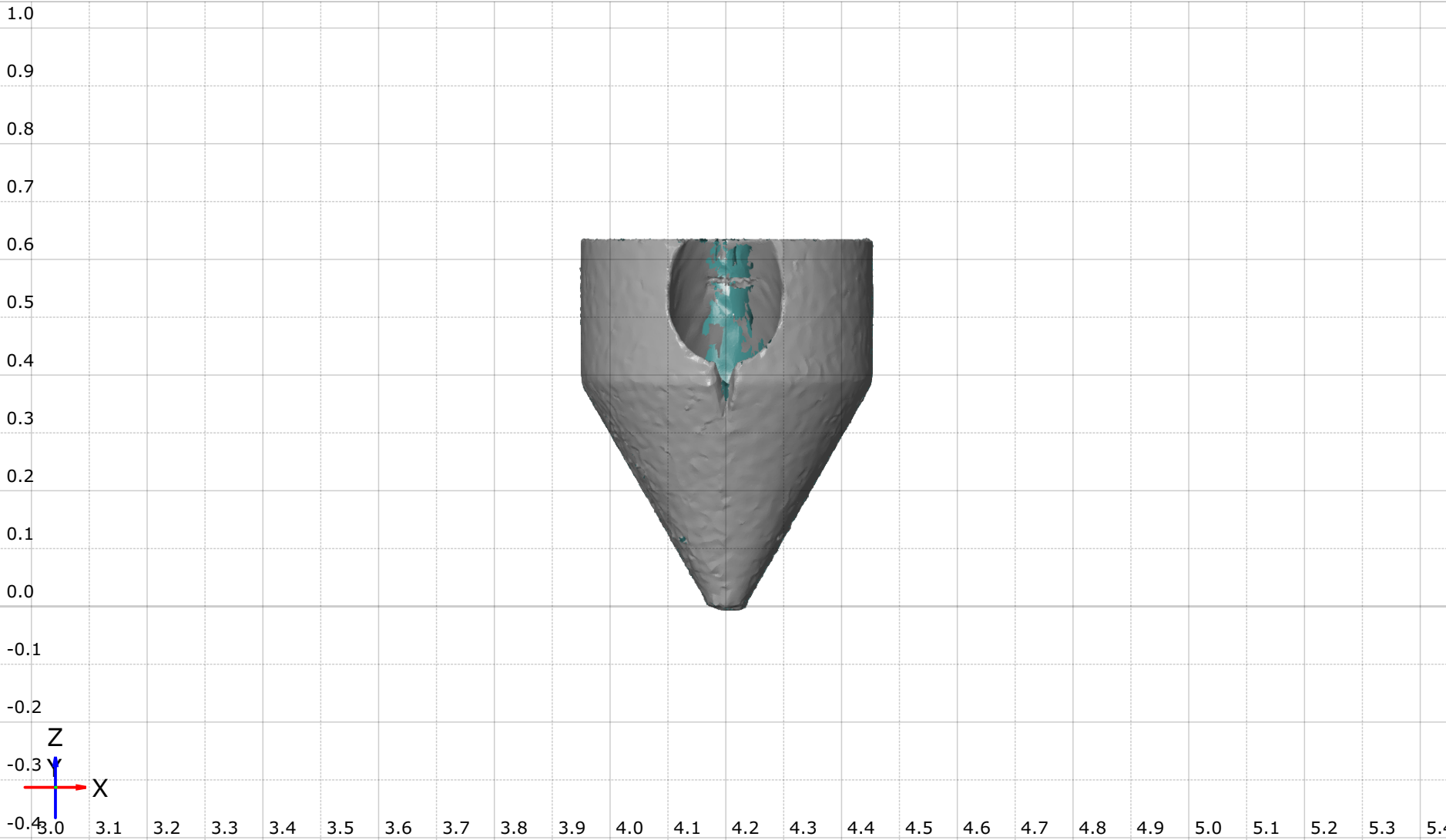


Alignment By Geometric Elements Length unit: in

Scan Data - Right View, Segment 4

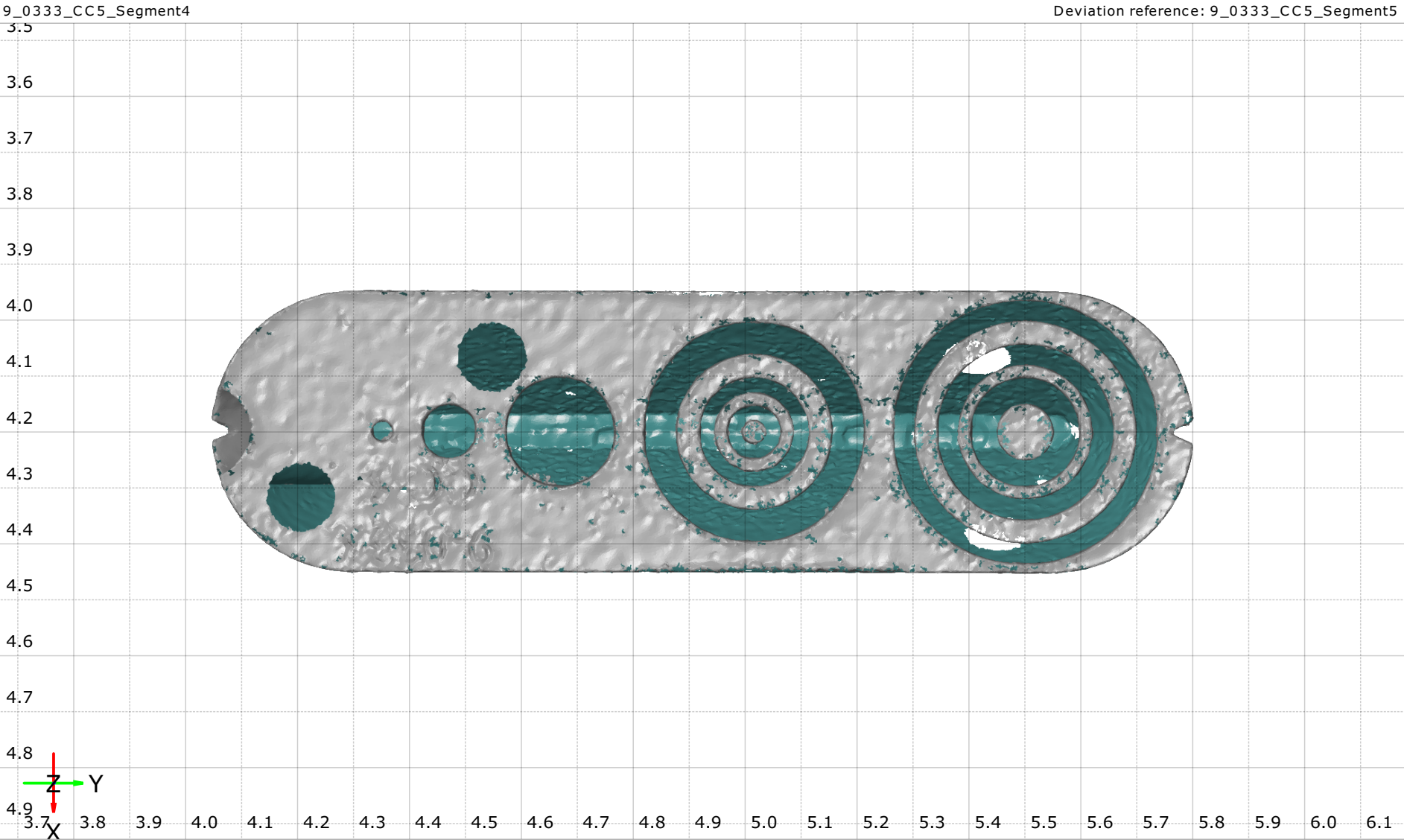
9_0333_CC5_Segment4

Deviation reference: 9_0333_CC5_Segment5

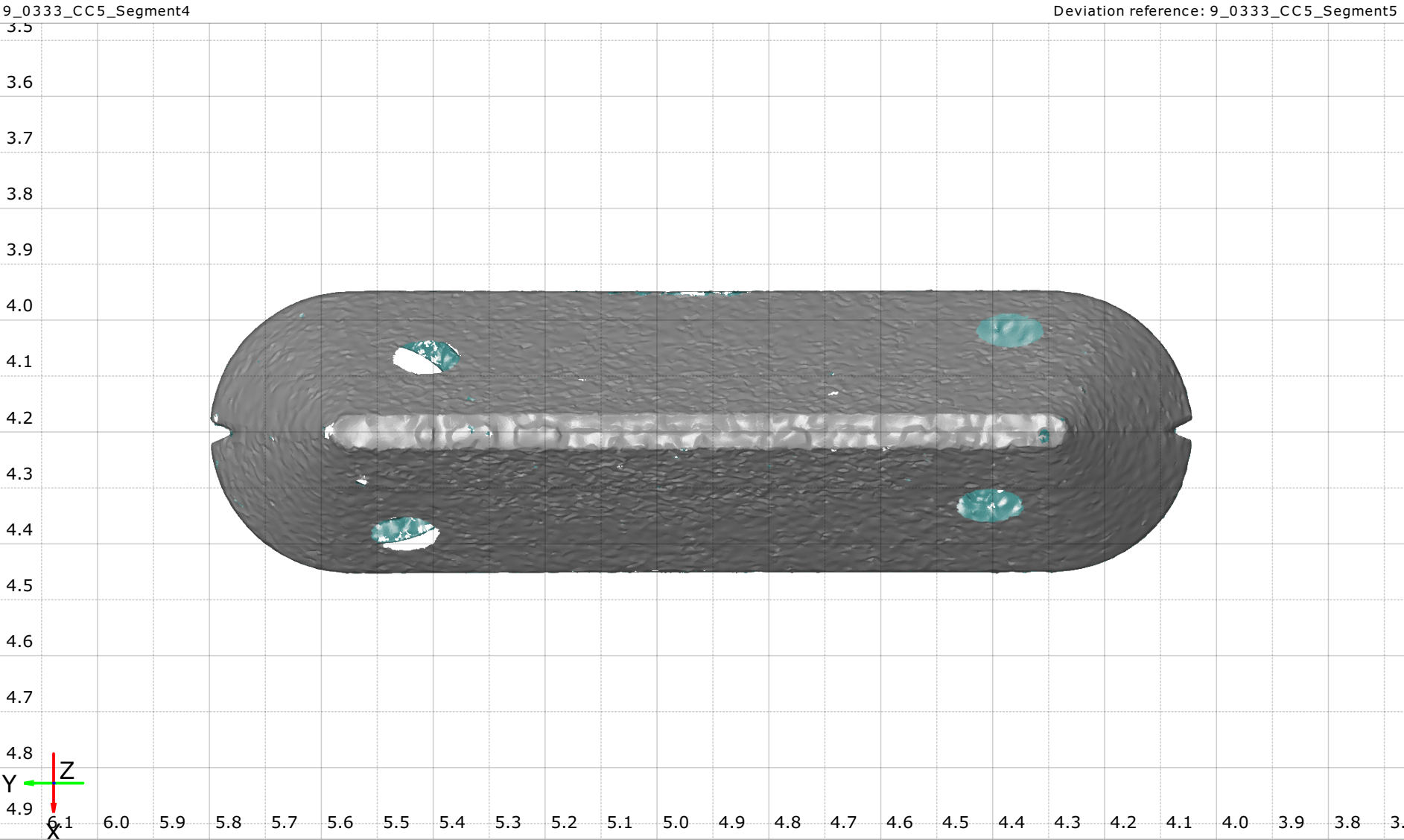


Alignment By Geometric Elements Length unit: in

Scan Data - Top View, Segment 4



Scan Data - Bottom View, Segment 4



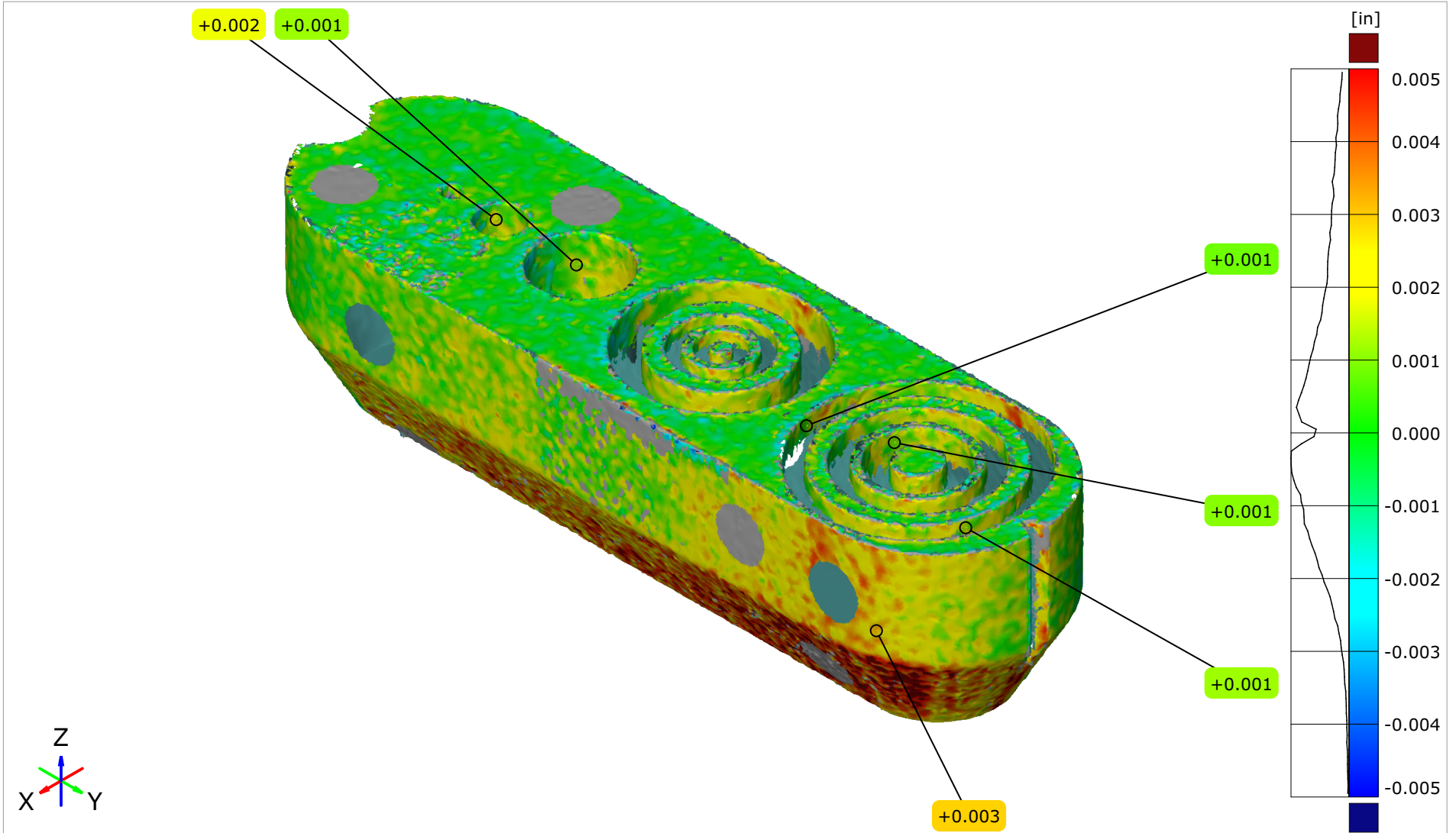
Alignment By Geometric Elements

Length unit: in

3D Deviation - Iso View, Segment 4

9_0333_CC5_Segment4

Deviation reference: 9_0333_CC5_Segment5



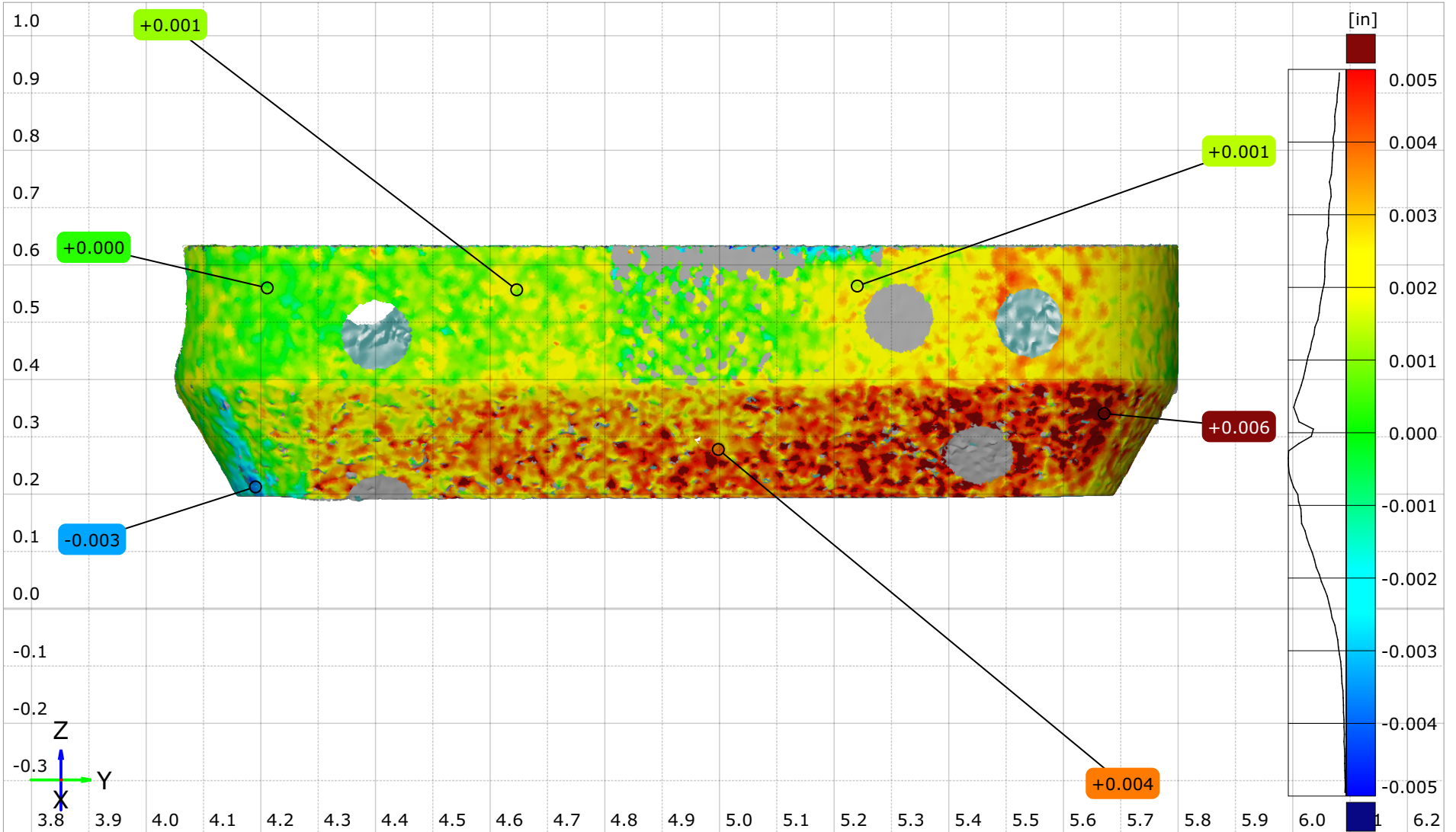
Alignment By Geometric Elements

Length unit: in

3D Deviation - Front View, Segment 4

9_0333_CC5_Segment4

Deviation reference: 9_0333_CC5_Segment5



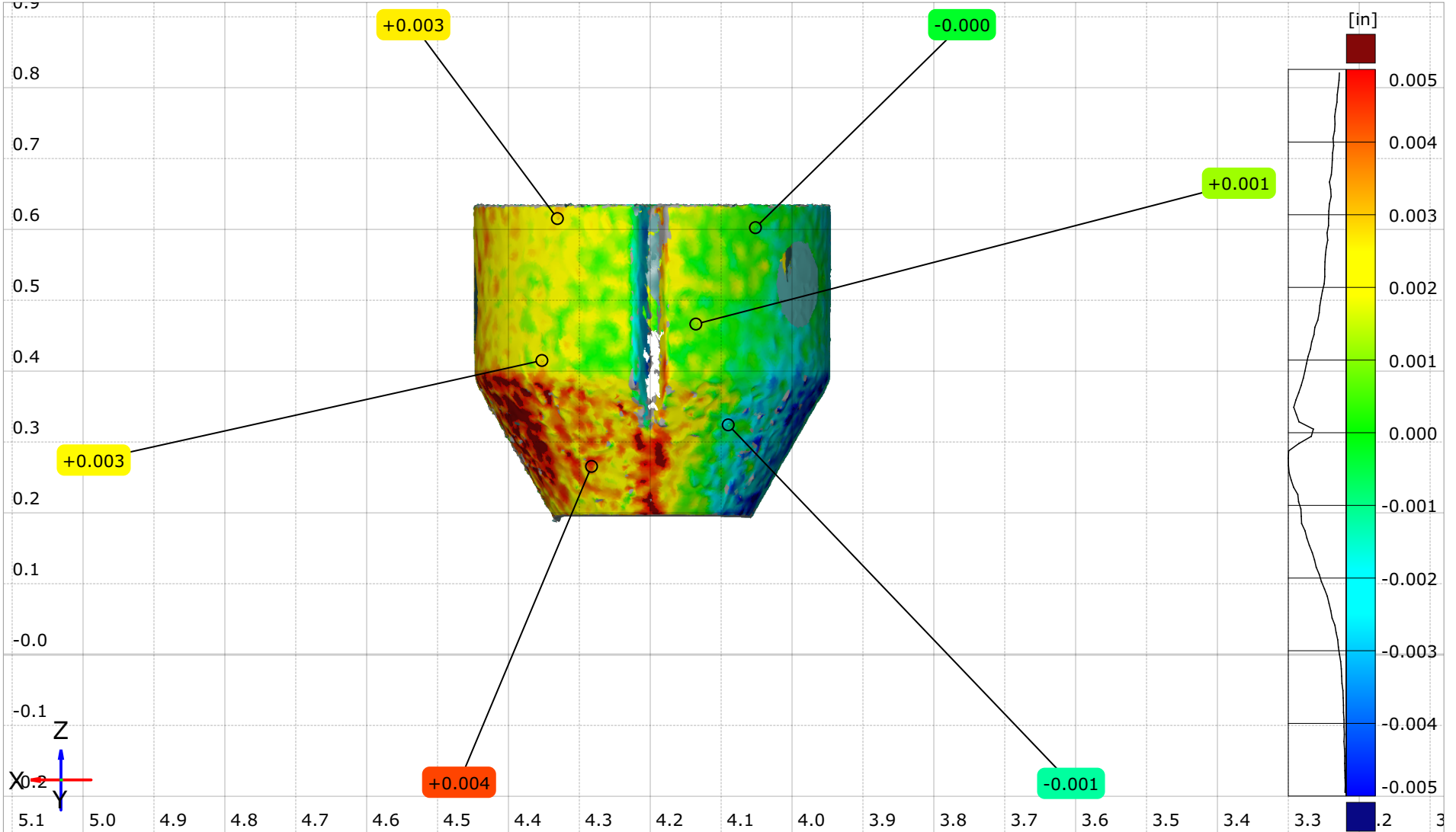
Alignment By Geometric Elements

Length unit: in

3D Deviation - Left View, Segment 4

9_0333_CC5_Segment4

Deviation reference: 9_0333_CC5_Segment5



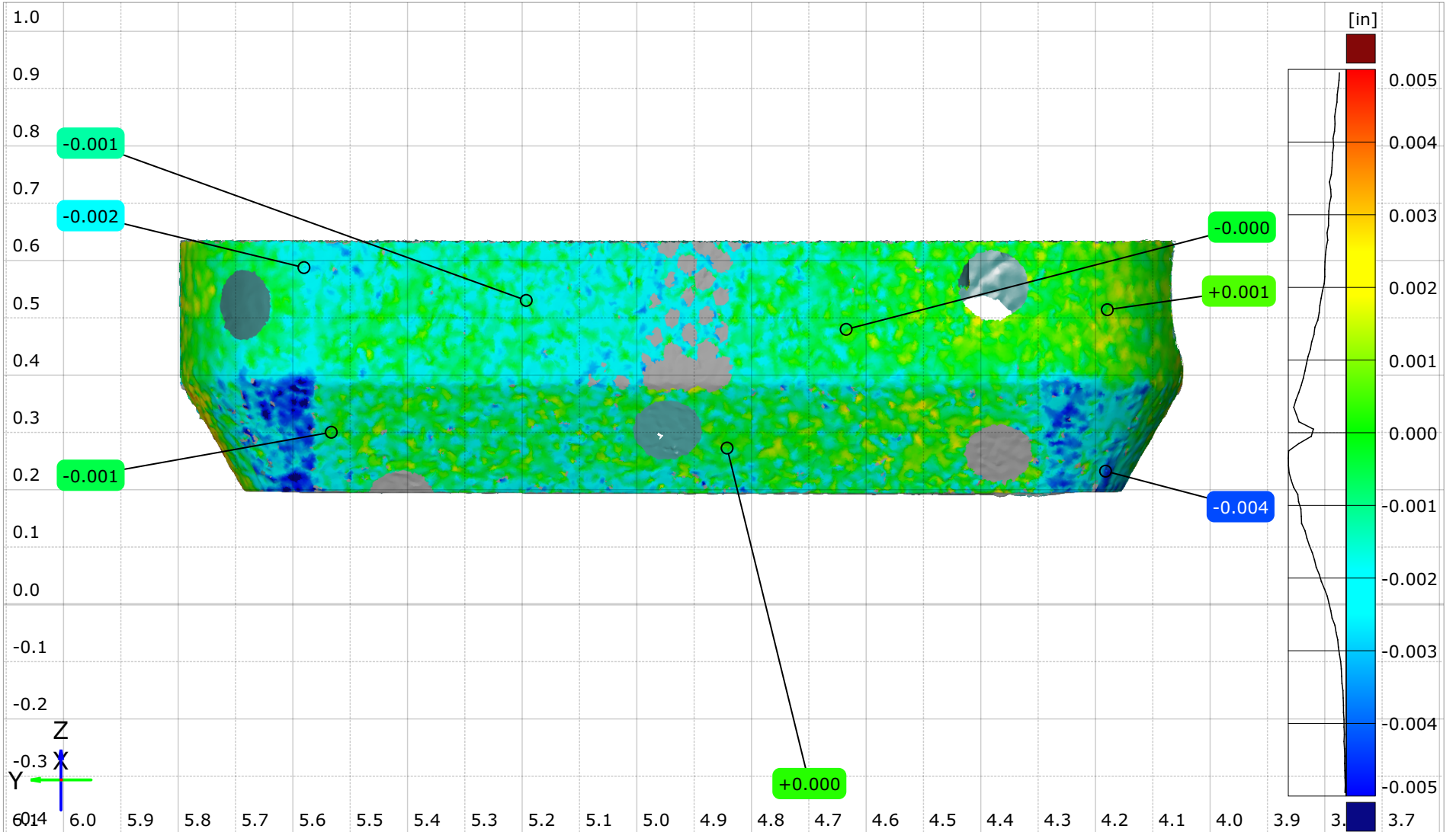
Alignment By Geometric Elements

Length unit: in

3D Deviation - Back View, Segment 4

9_0333_CC5_Segment4

Deviation reference: 9_0333_CC5_Segment5



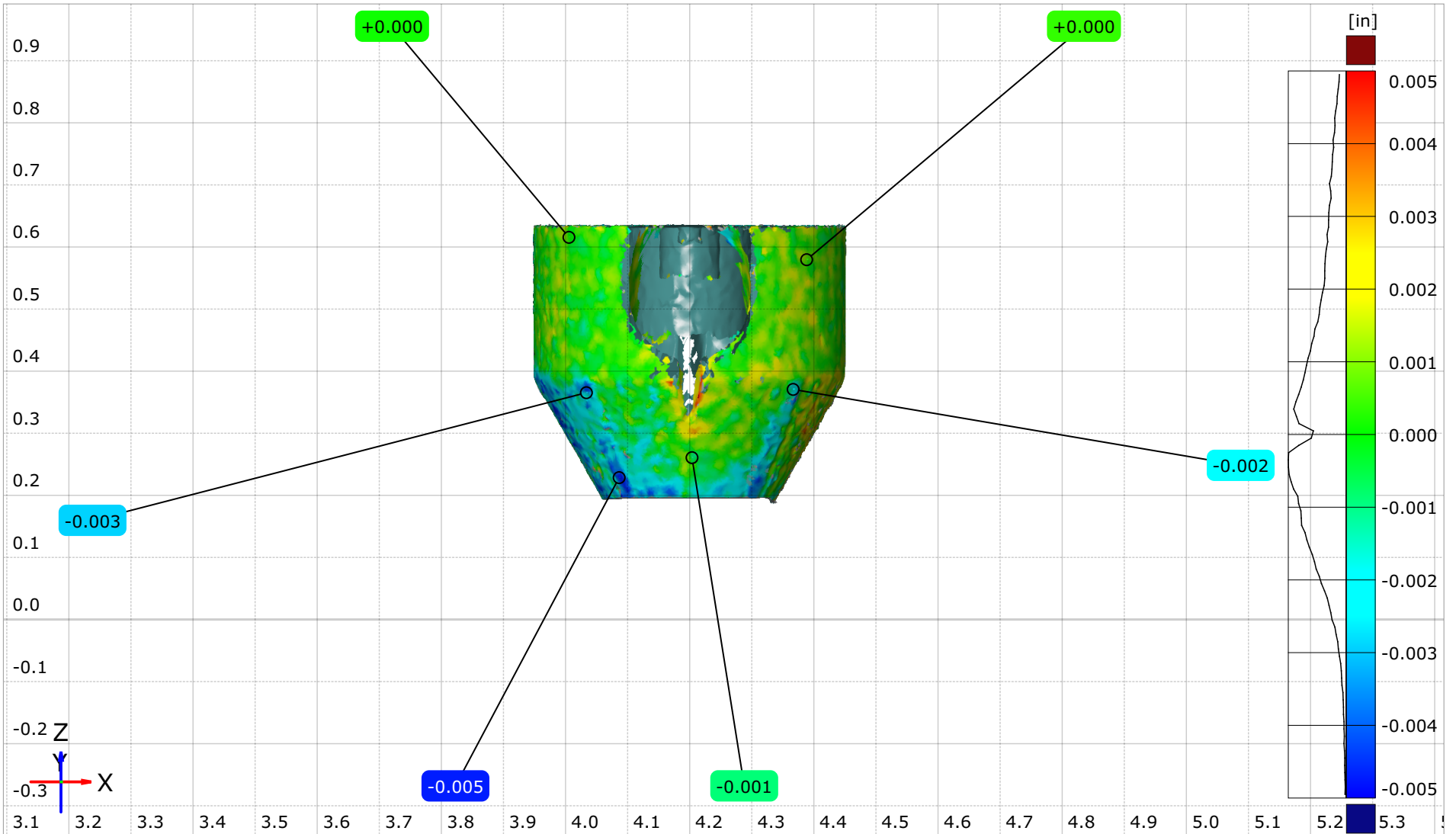
Alignment By Geometric Elements

Length unit: in

3D Deviation - Right View, Segment 4

9_0333_CC5_Segment4

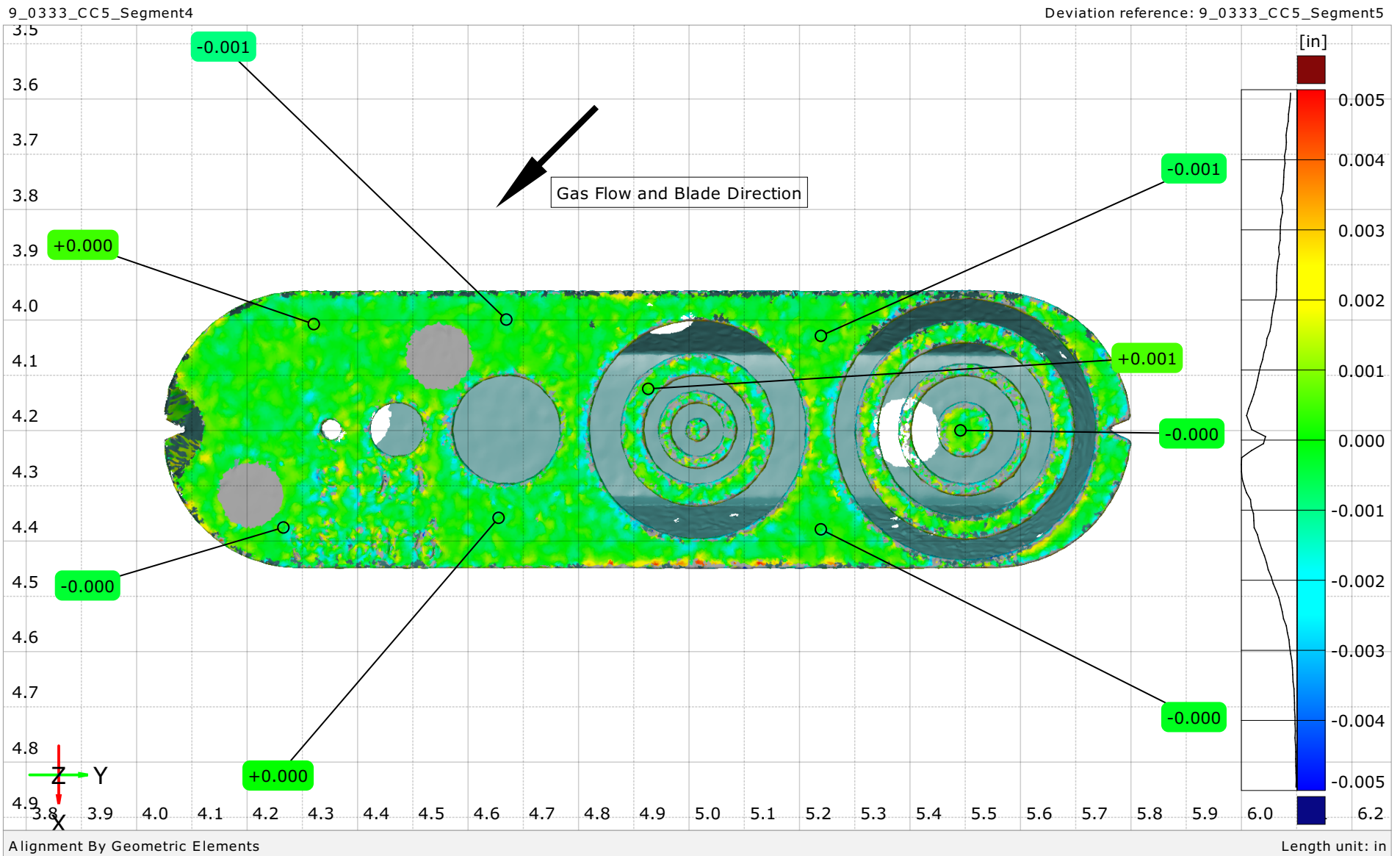
Deviation reference: 9_0333_CC5_Segment5



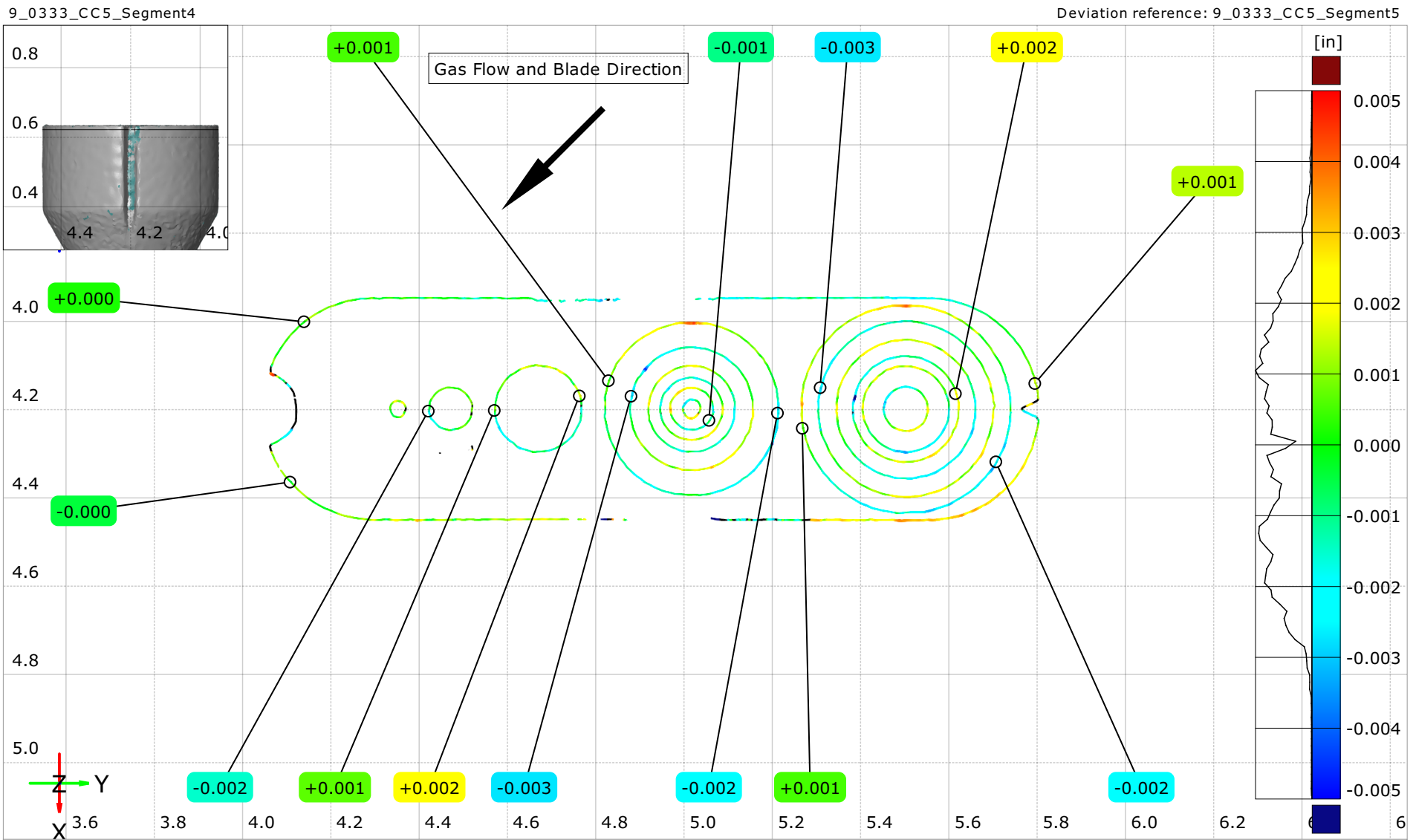
Alignment By Geometric Elements

Length unit: in

3D Deviation - Top View, Segment 4



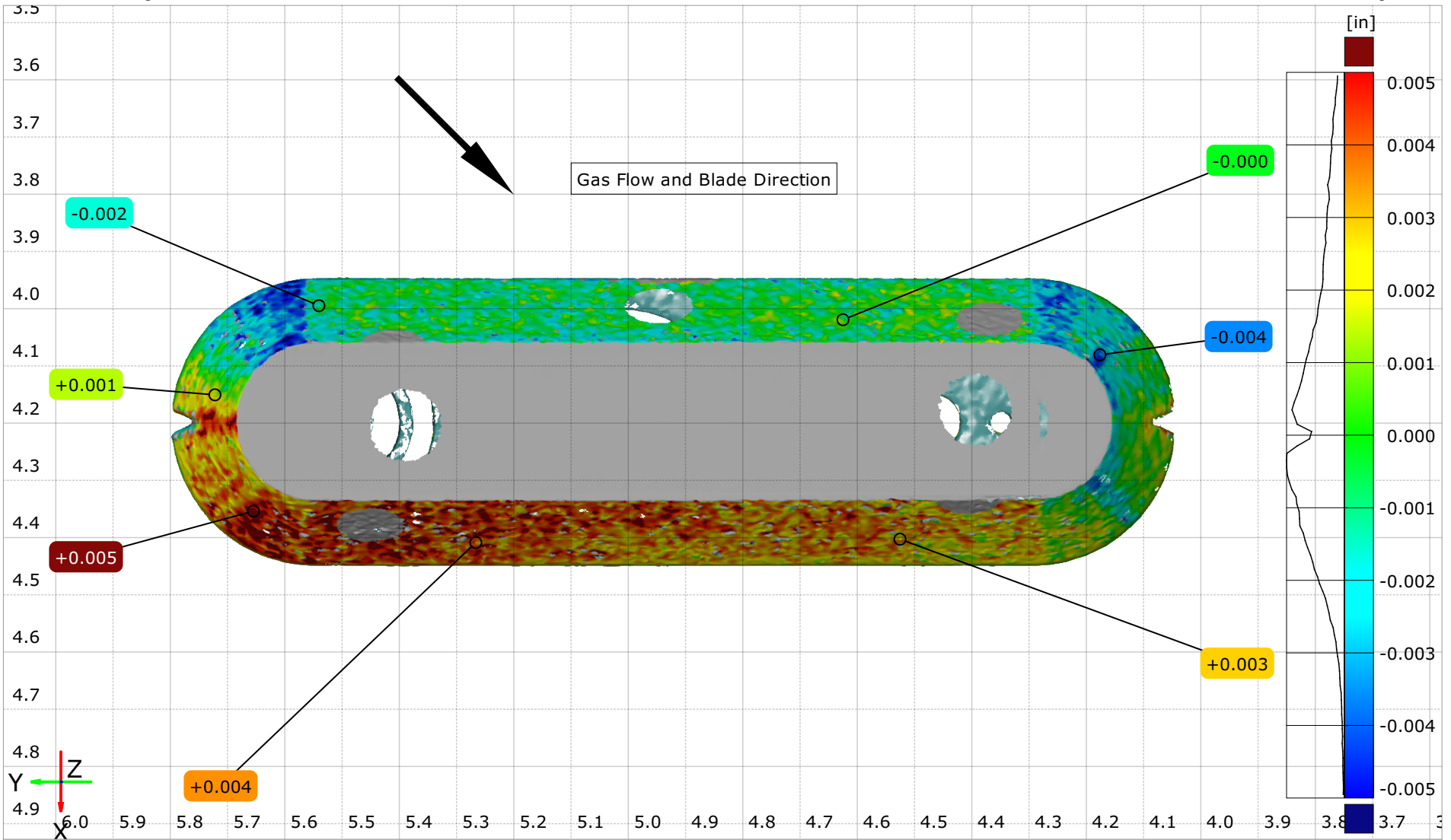
2D Deviation - Top View, Segment 4 Offset from Plane 1 by -0.010in



3D Deviation - Bottom View, Segment 4

9_0333_CC5_Segment4

Deviation reference: 9_0333_CC5_Segment5



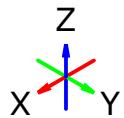
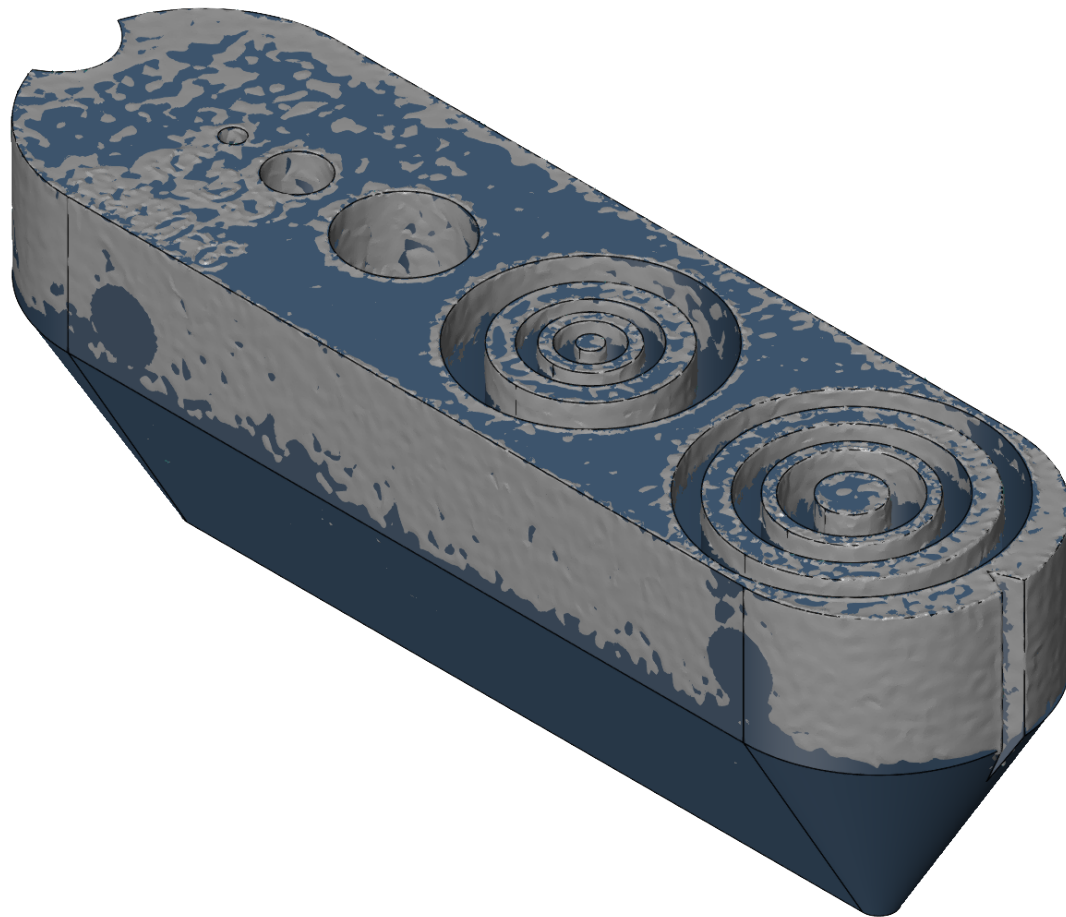
Alignment By Geometric Elements

Length unit: in

CAD Model/Scan Data Overlay - Iso View, Segment 5

9_0333_CC5_Segment5

Deviation reference: 9_0333_CC5_Segment5



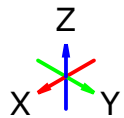
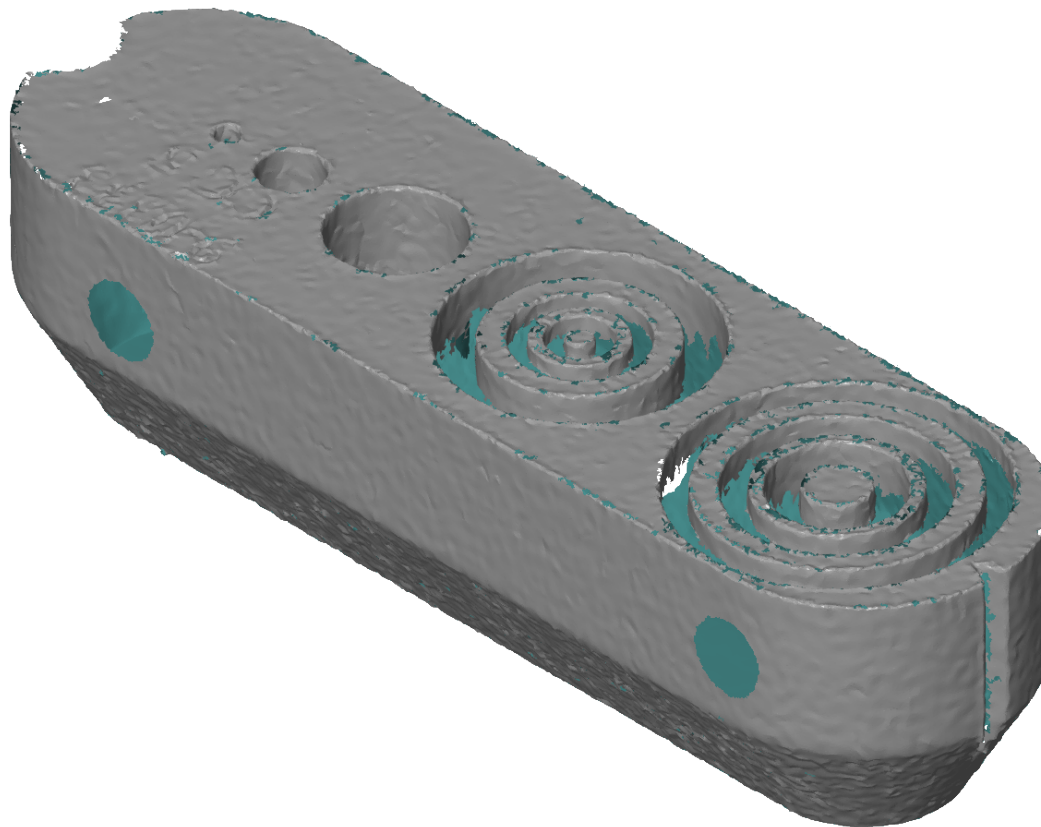
Alignment By Geometric Elements

Length unit: in

Scan Data - Iso View, Segment 5

9_0333_CC5_Segment5

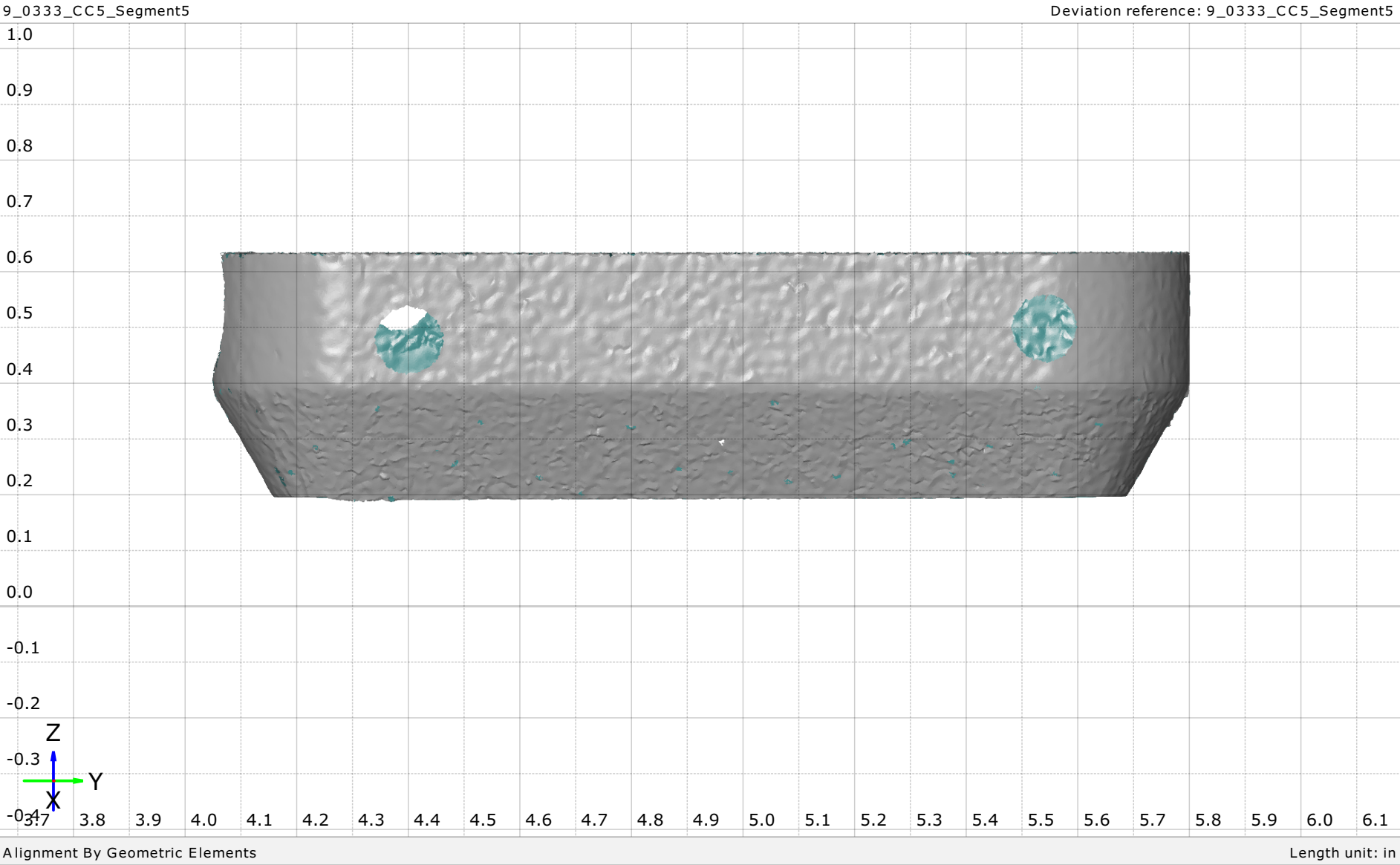
Deviation reference: 9_0333_CC5_Segment5



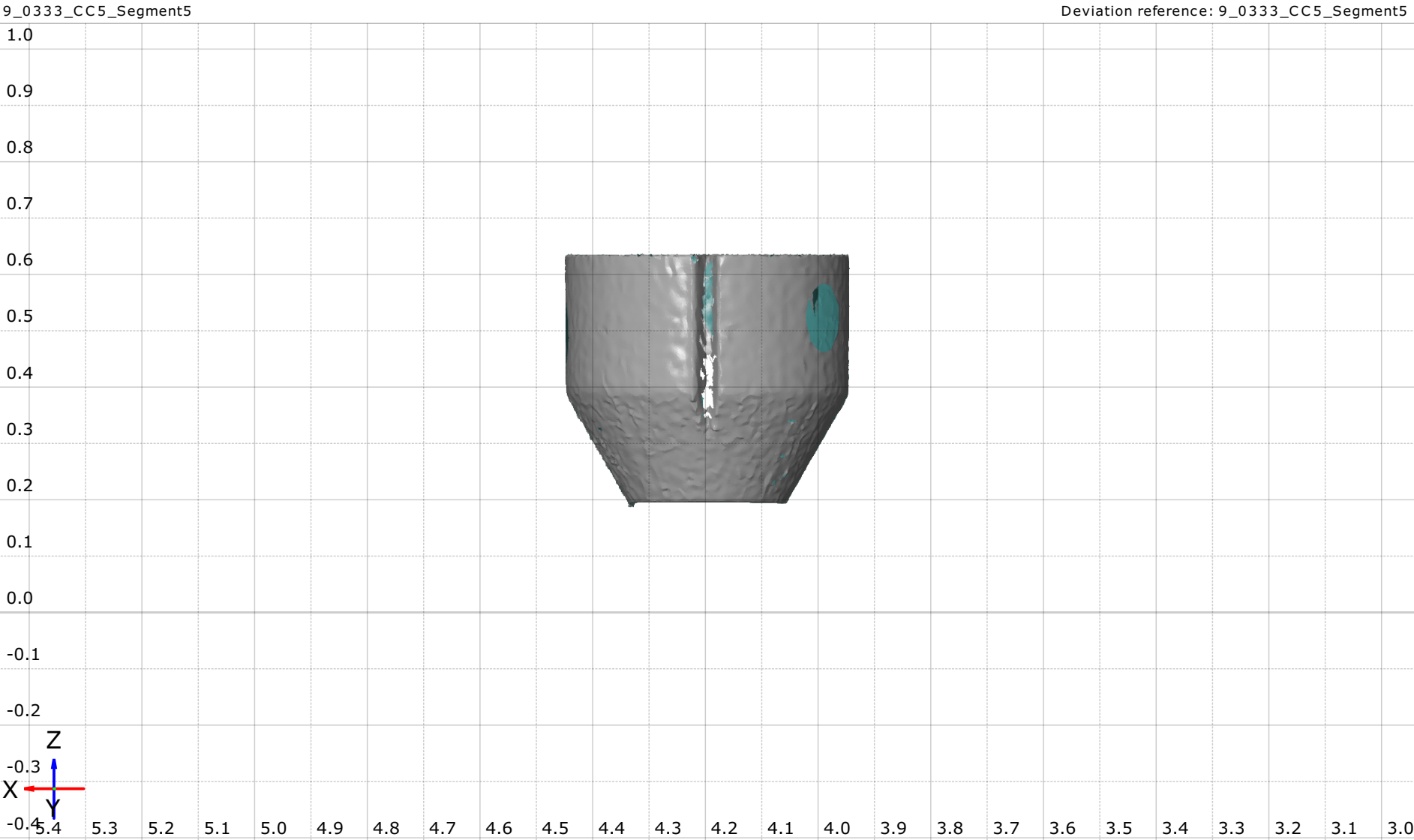
Alignment By Geometric Elements

Length unit: in

Scan Data - Front View, Segment 5

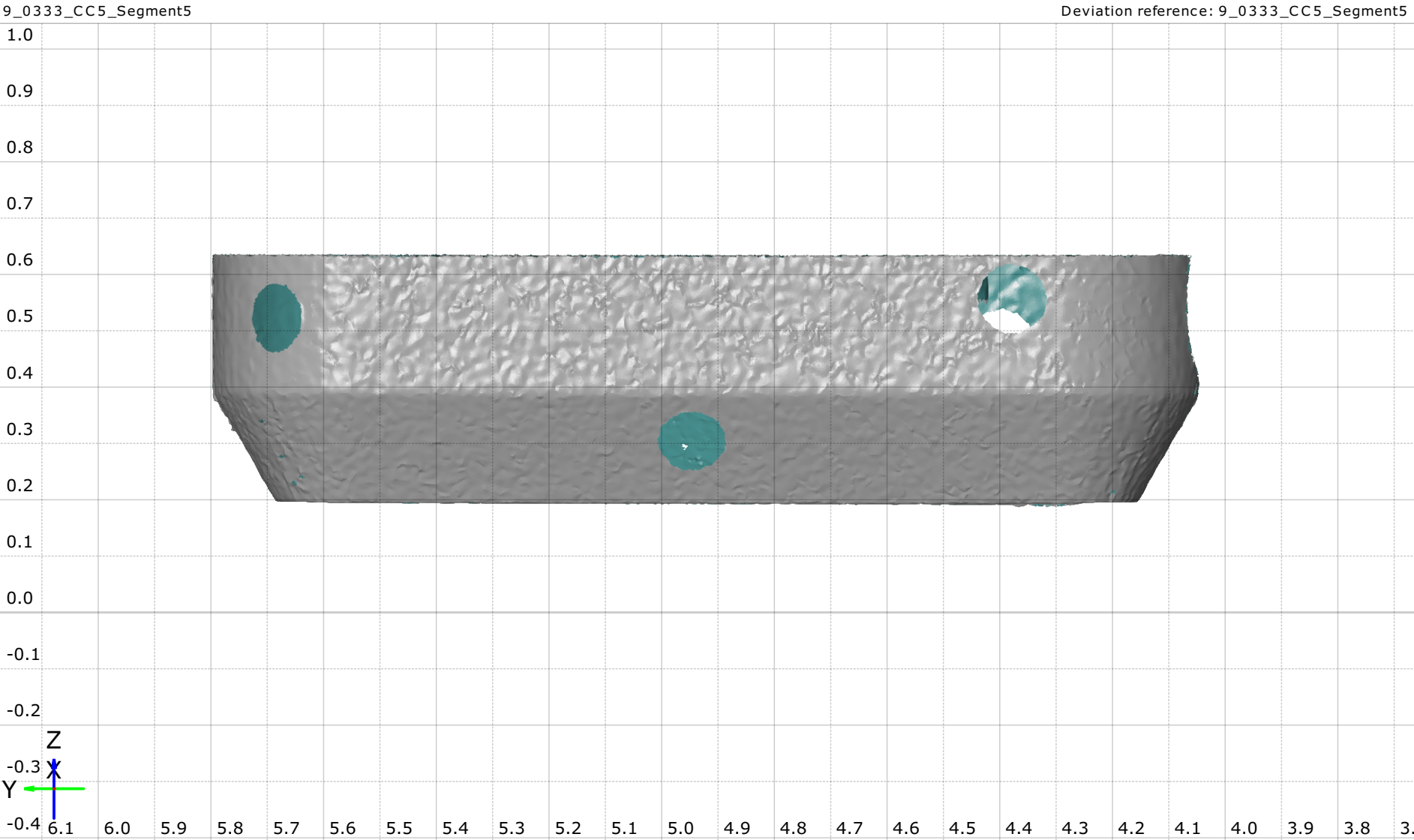


Scan Data - Left View, Segment 5



Alignment By Geometric Elements Length unit: in

Scan Data - Back View, Segment 5

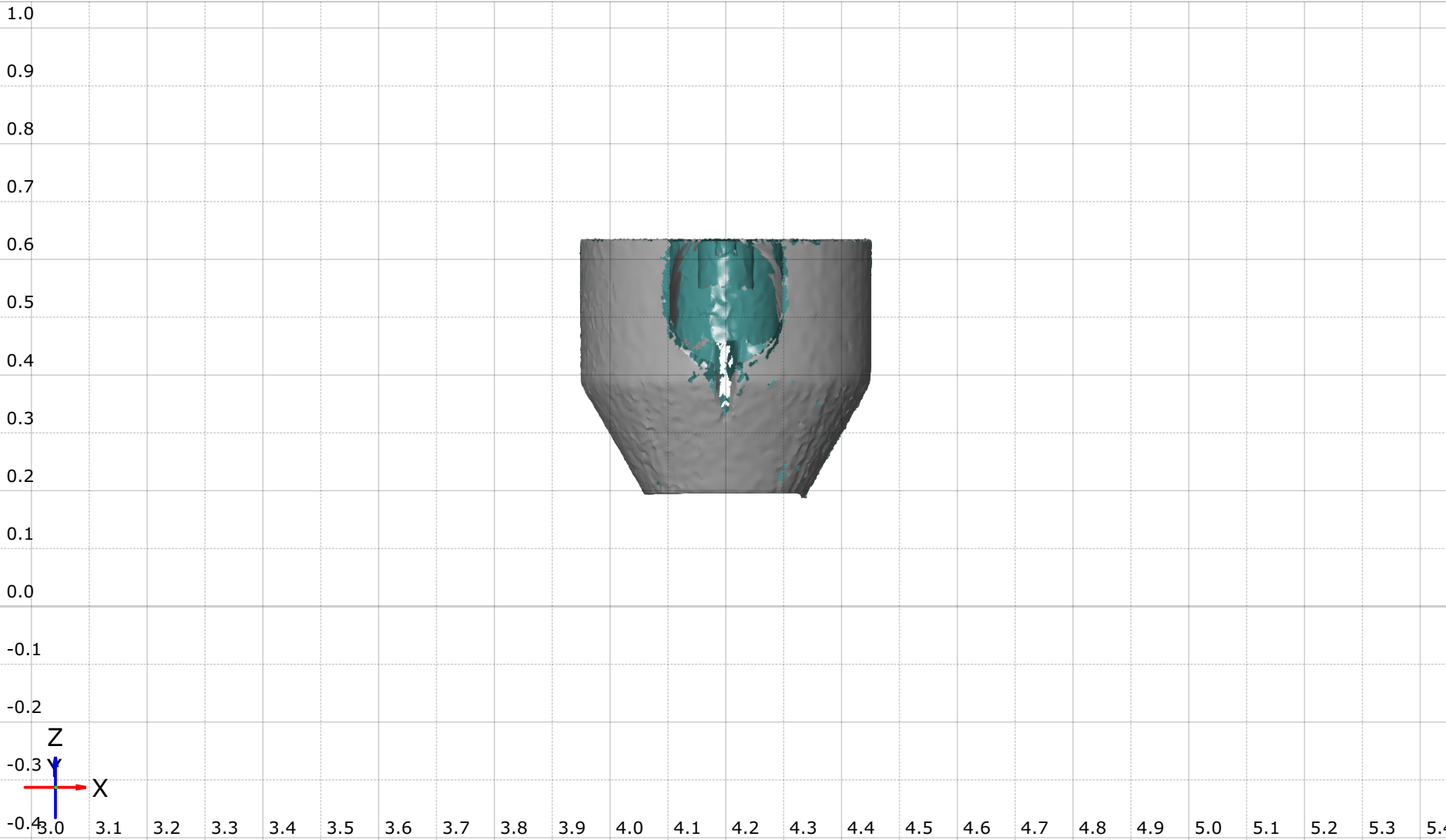


Alignment By Geometric Elements Length unit: in

Scan Data - Right View, Segment 5

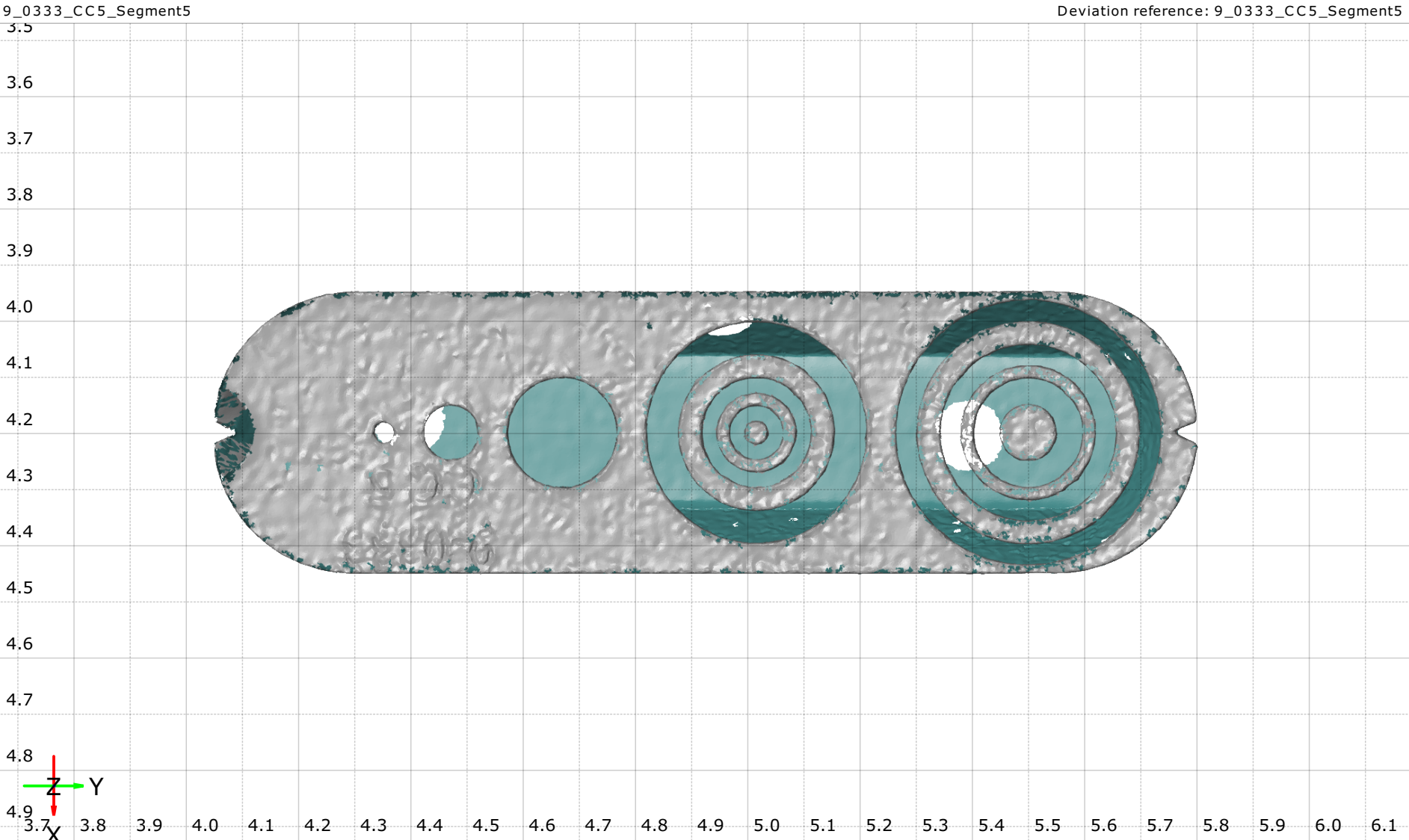
9_0333_CC5_Segment5

Deviation reference: 9_0333_CC5_Segment5

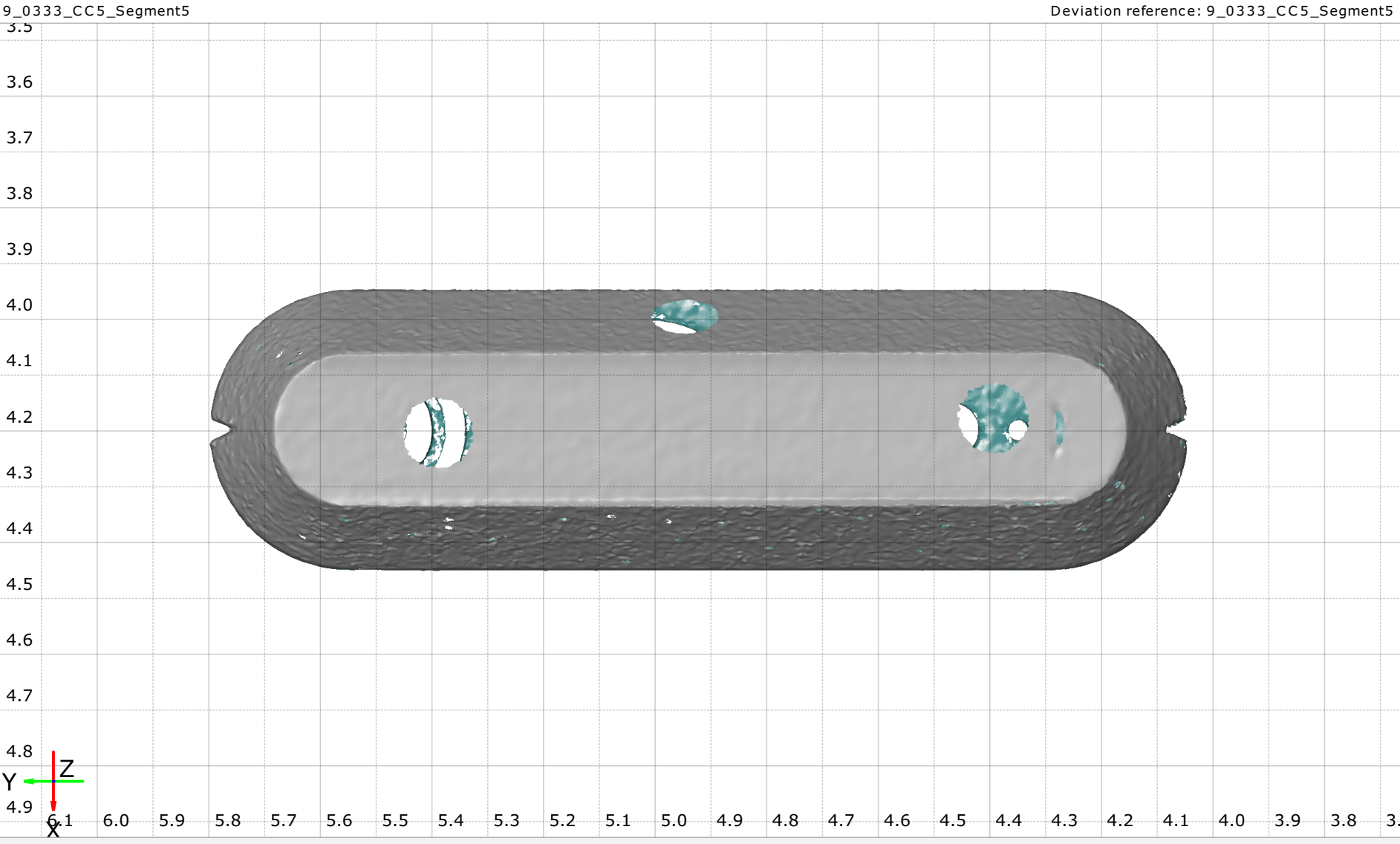


Alignment By Geometric Elements Length unit: in

Scan Data - Top View, Segment 5



Scan Data - Bottom View, Segment 5



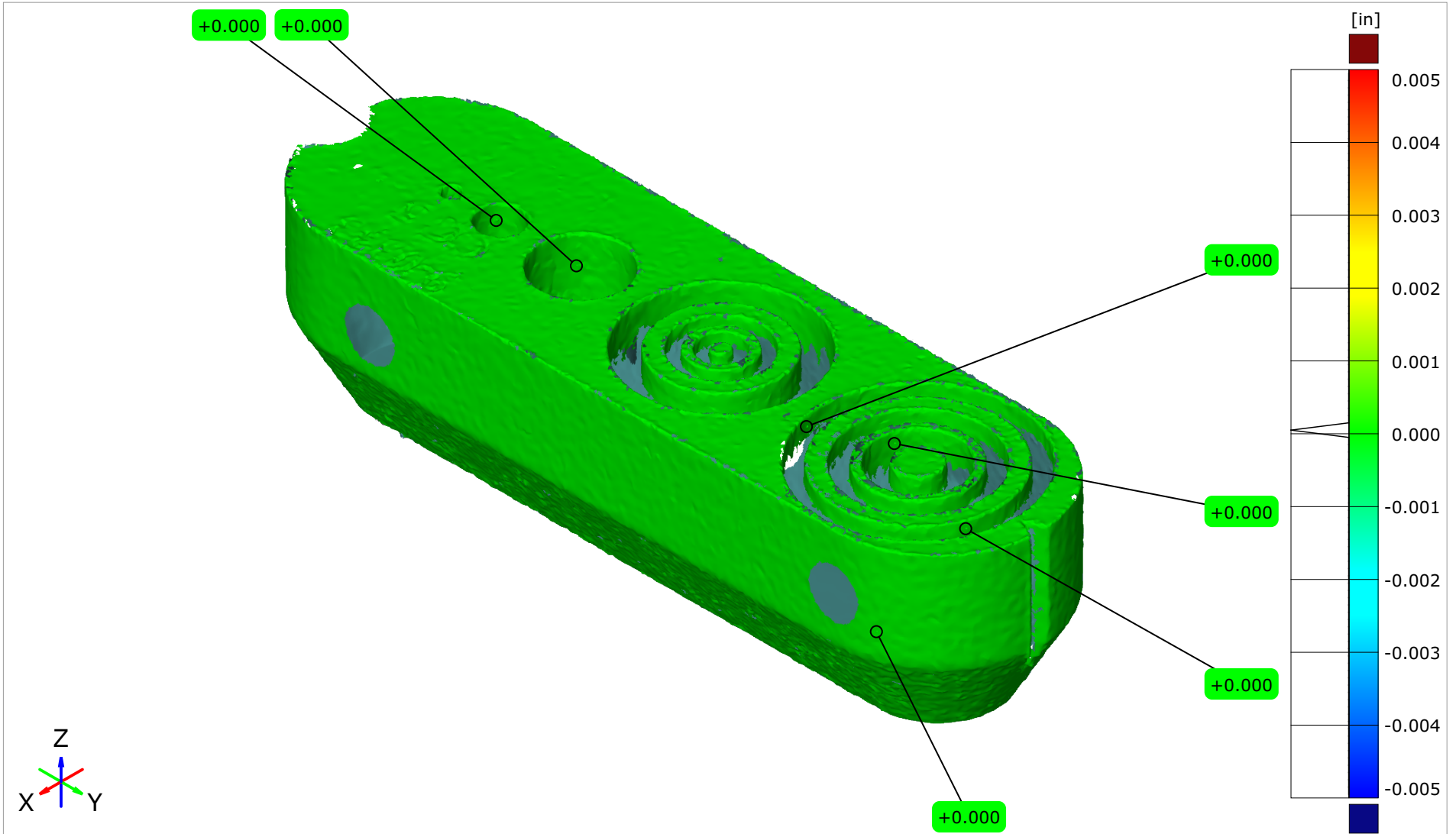
Alignment By Geometric Elements

Length unit: in

3D Deviation - Iso View, Segment 5

9_0333_CC5_Segment5

Deviation reference: 9_0333_CC5_Segment5



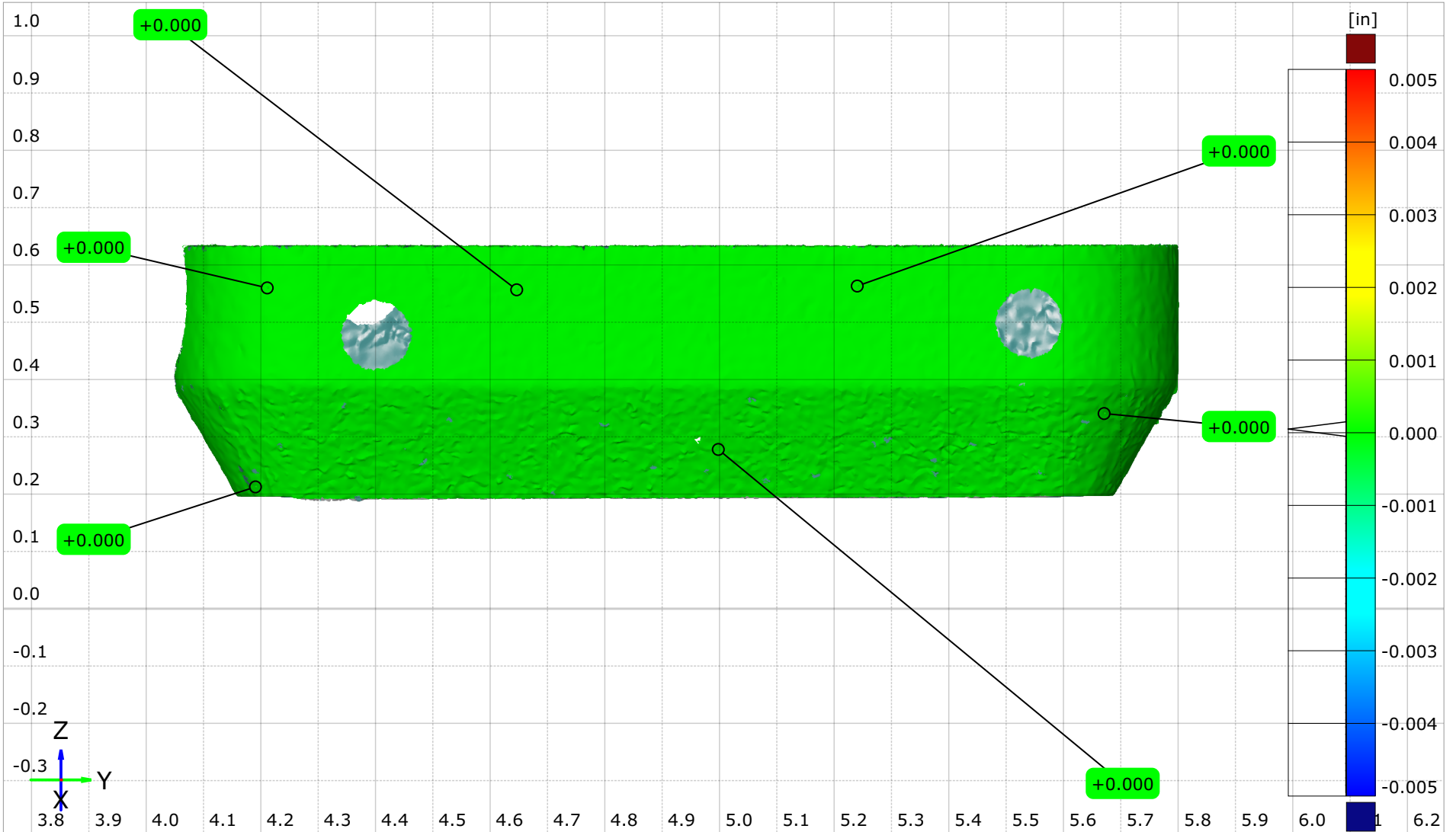
Alignment By Geometric Elements

Length unit: in

3D Deviation - Front View, Segment 5

9_0333_CC5_Segment5

Deviation reference: 9_0333_CC5_Segment5



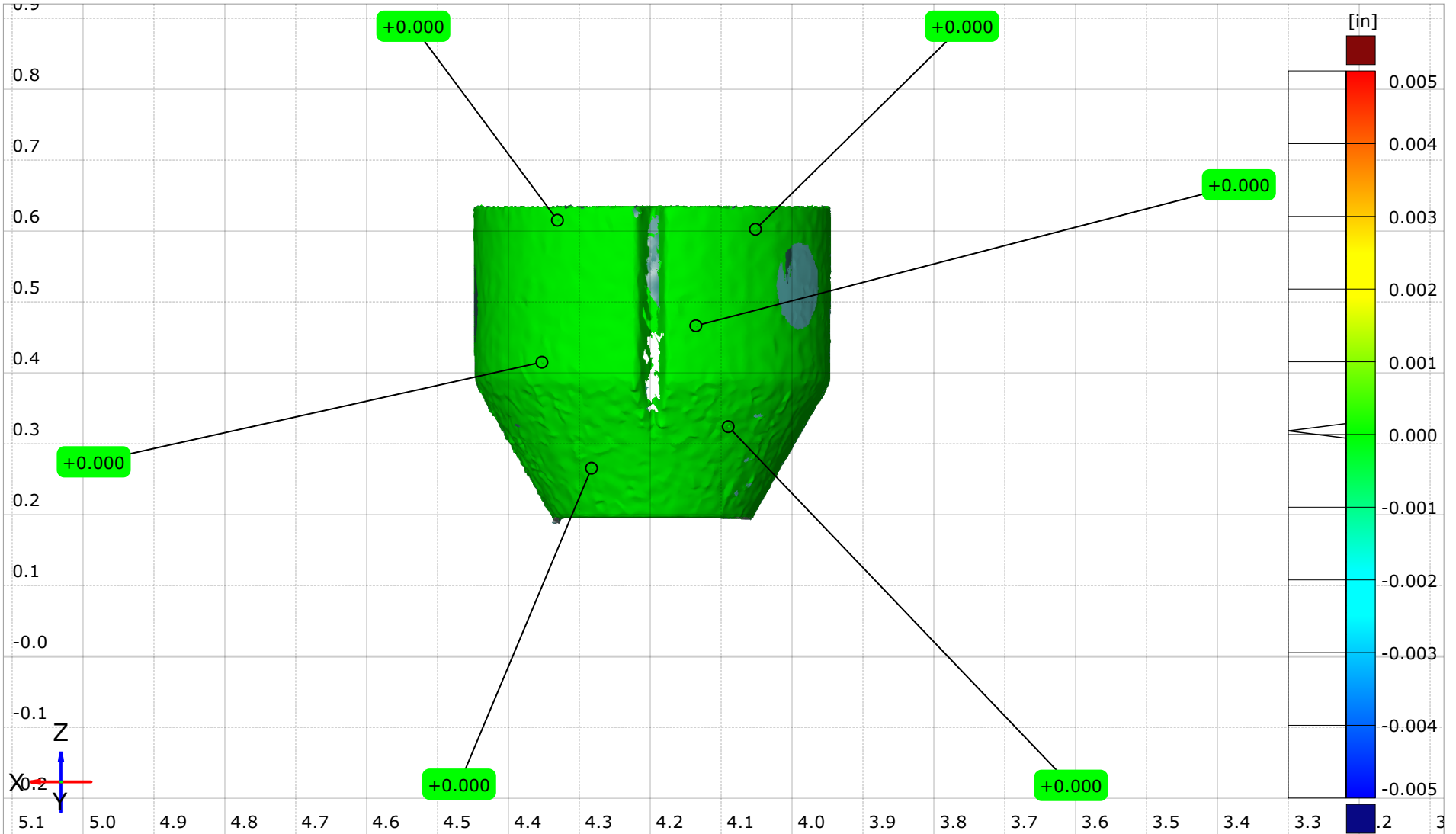
Alignment By Geometric Elements

Length unit: in

3D Deviation - Left View, Segment 5

9_0333_CC5_Segment5

Deviation reference: 9_0333_CC5_Segment5



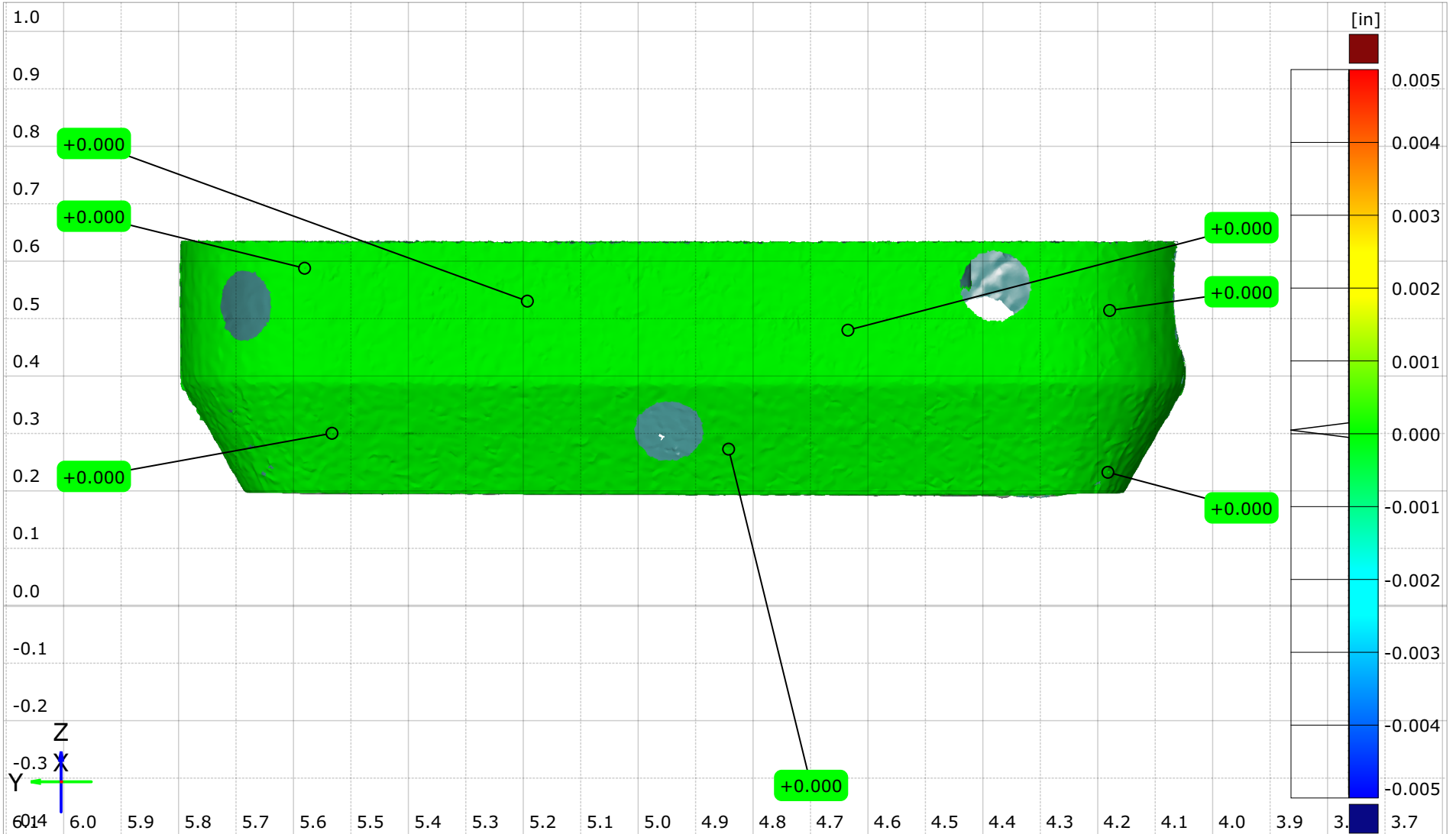
Alignment By Geometric Elements

Length unit: in

3D Deviation - Back View, Segment 5

9_0333_CC5_Segment5

Deviation reference: 9_0333_CC5_Segment5



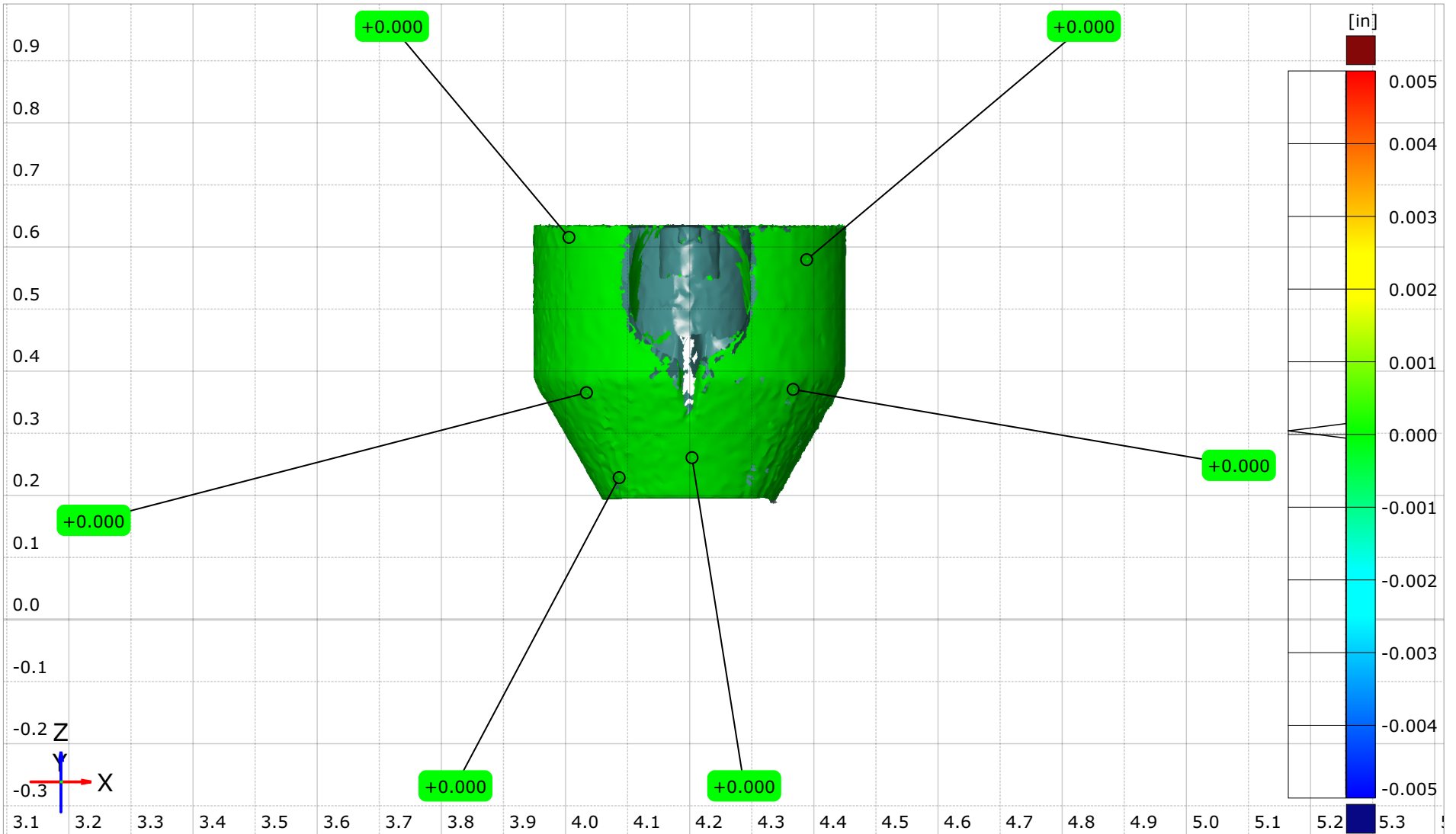
Alignment By Geometric Elements

Length unit: in

3D Deviation - Right View, Segment 5

9_0333_CC5_Segment5

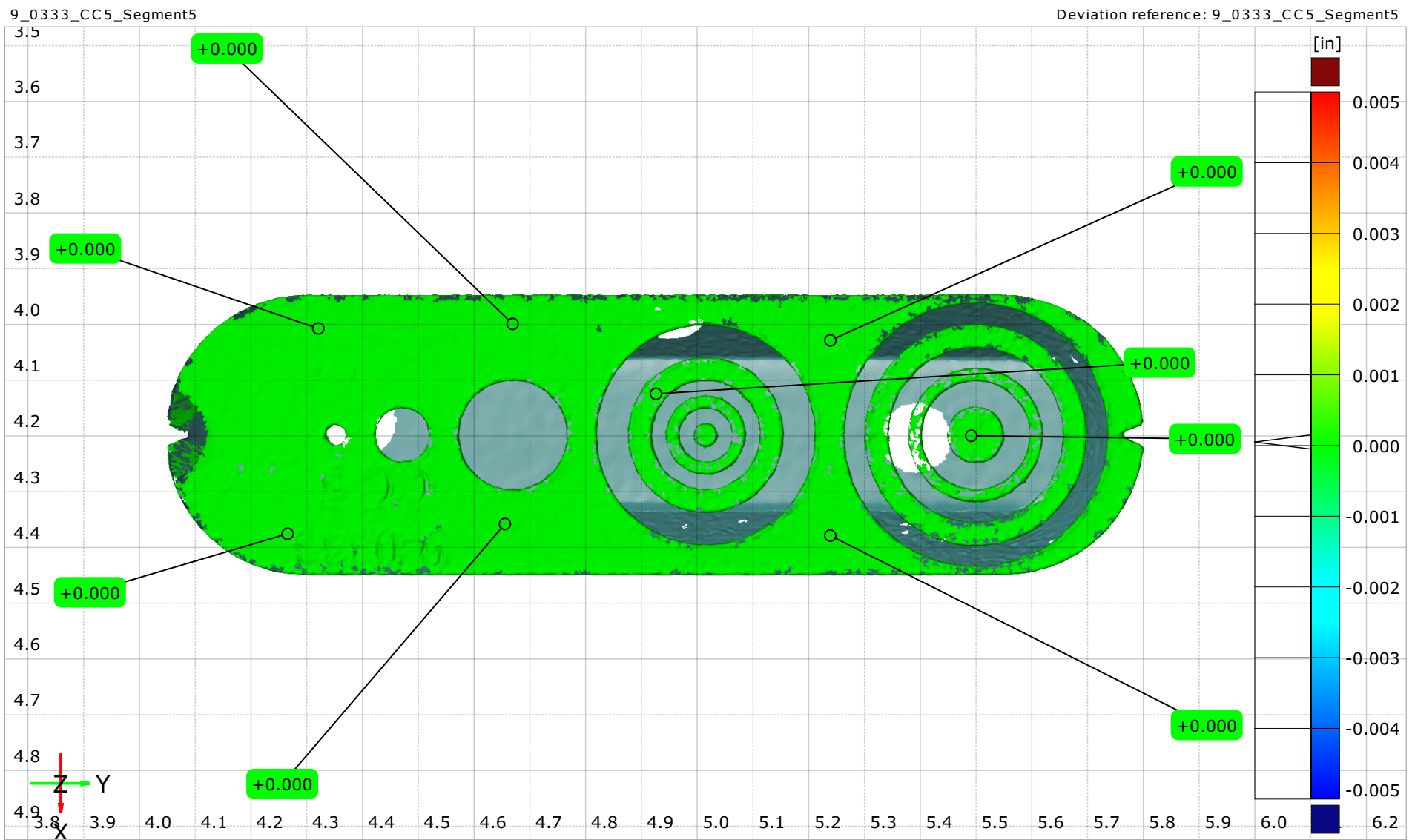
Deviation reference: 9_0333_CC5_Segment5



Alignment By Geometric Elements

Length unit: in

3D Deviation - Top View, Segment 5



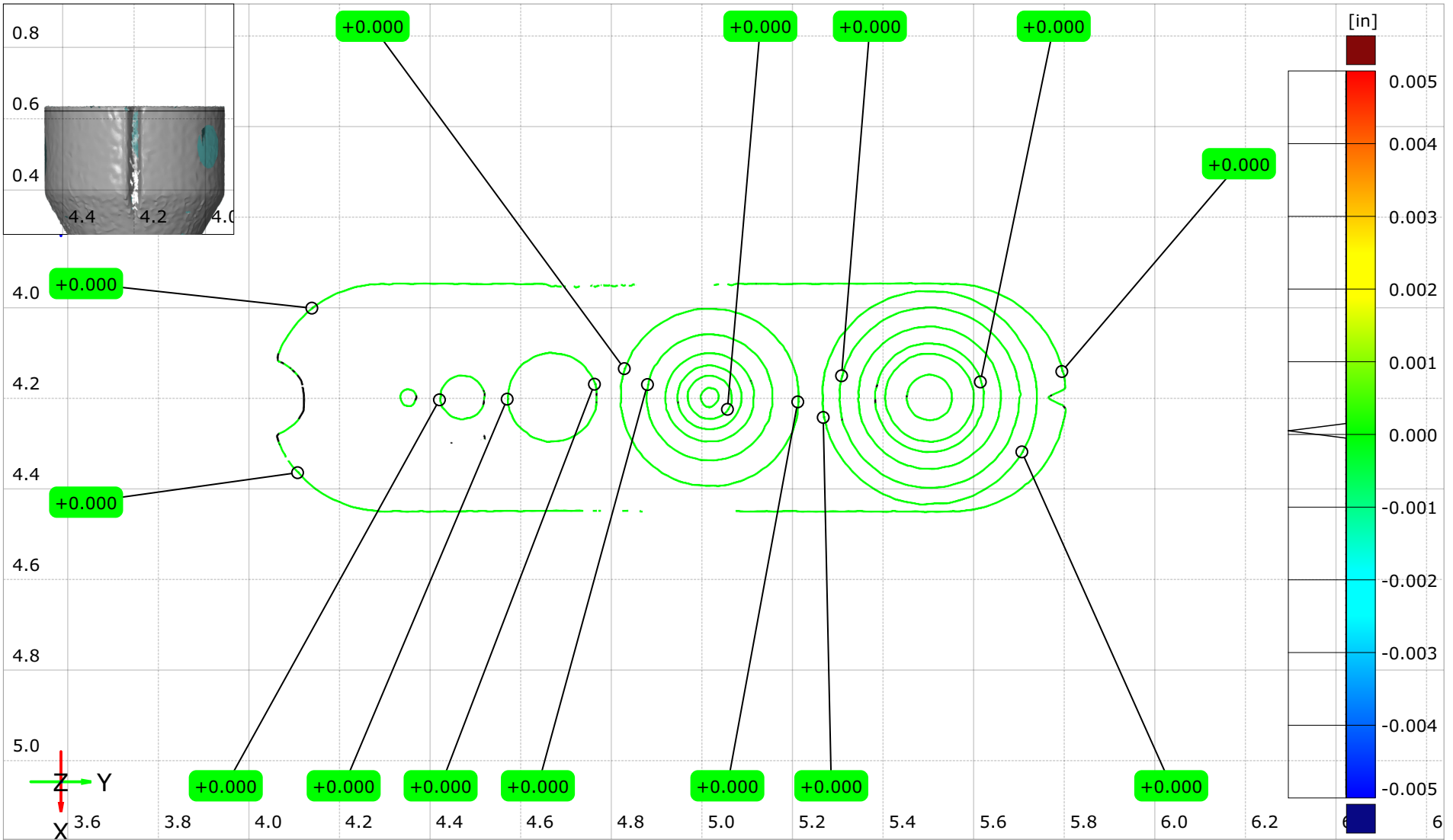
Alignment By Geometric Elements

Length unit: in

2D Deviation - Top View, Segment 5 Offset from Plane 1 by -0.010in

9_0333_CC5_Segment5

Deviation reference: 9_0333_CC5_Segment5



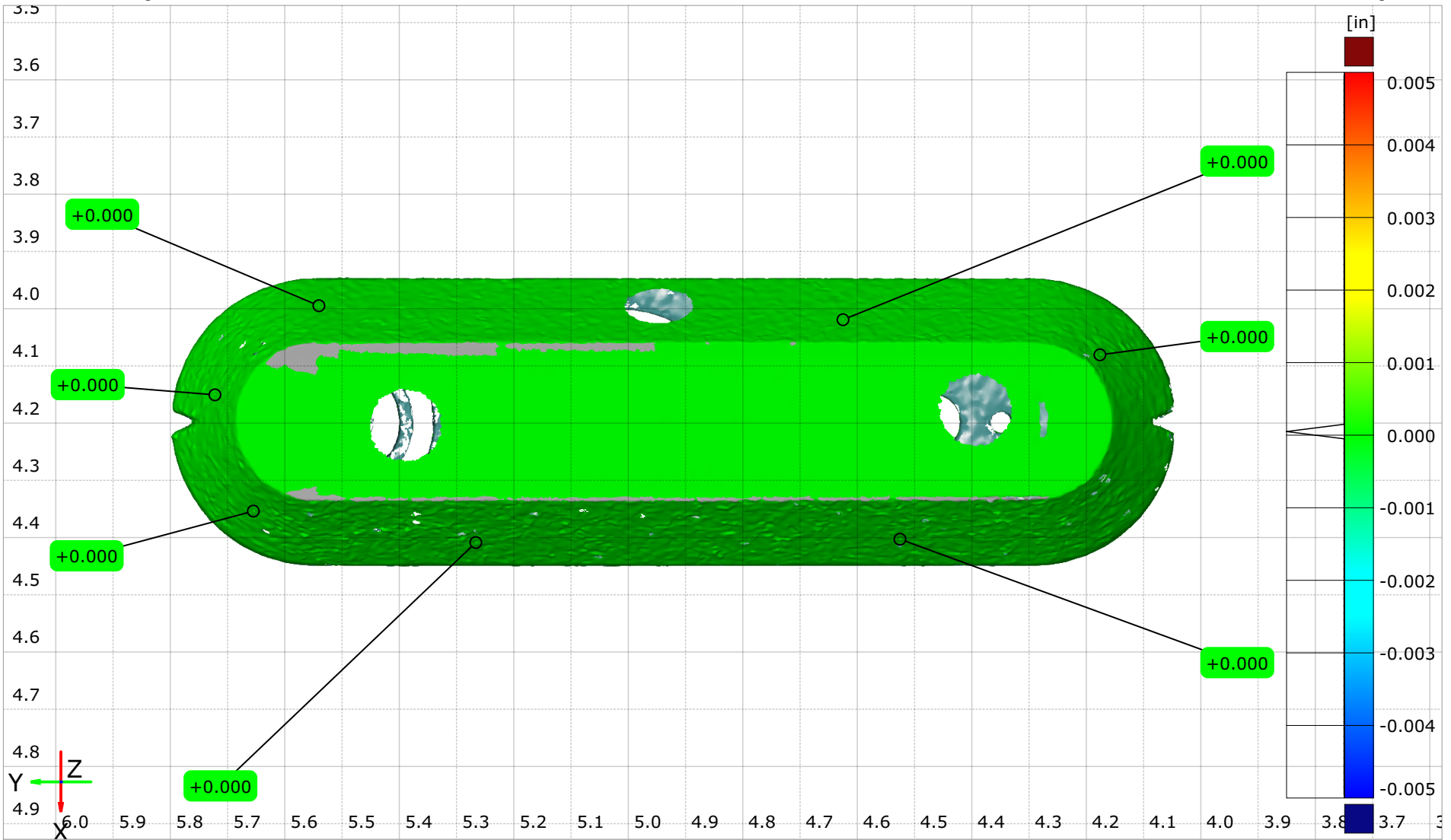
Alignment By Geometric Elements

Length unit: in

3D Deviation - Bottom View, Segment 5

9_0333_CC5_Segment5

Deviation reference: 9_0333_CC5_Segment5

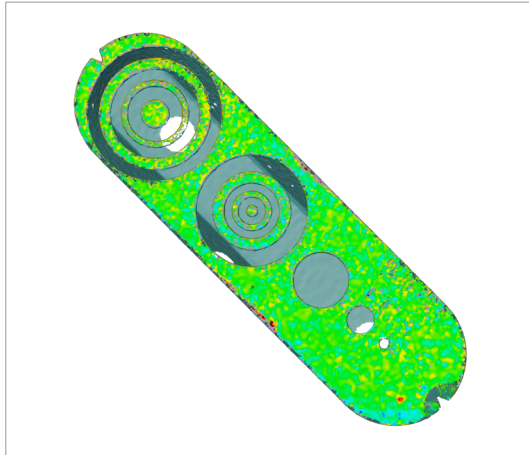


Alignment By Geometric Elements

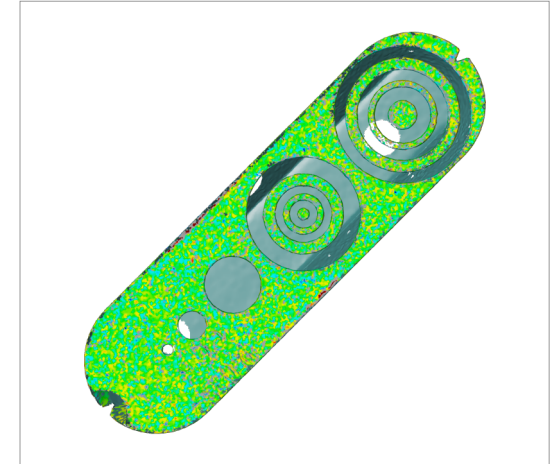
Length unit: in

3D Deviation - Top View of Part Layout

9_0333_CC5_Segment1

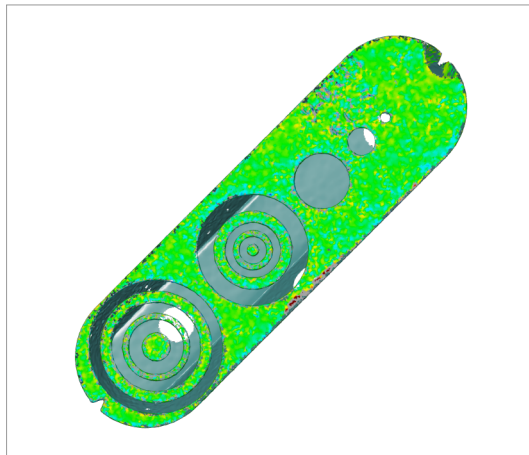


9_0333_CC5_Segment2

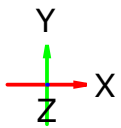
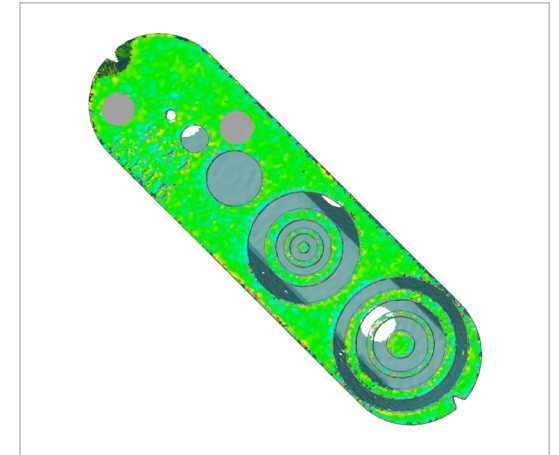


Recoater/Gas Flow Direction

9_0333_CC5_Segment3



9_0333_CC5_Segment4

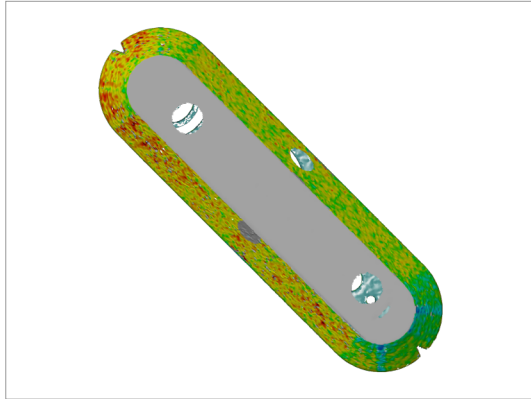


Alignment By Geometric Elements

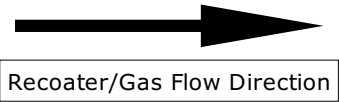
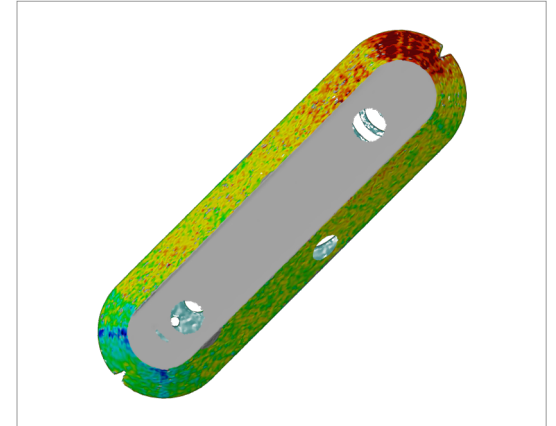
Length unit: in

3D Deviation - Bottom View of Part Layout

9_0333_CC5_Segment2

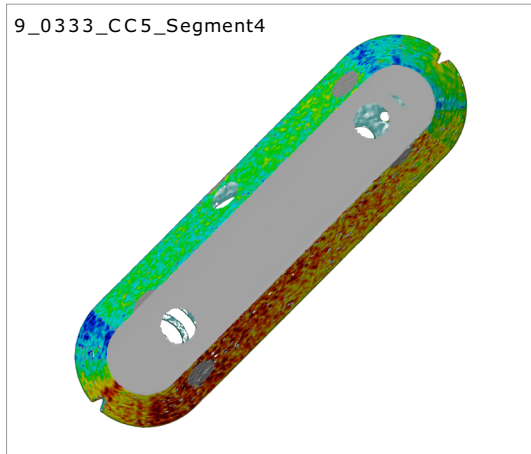


9_0333_CC5_Segment1

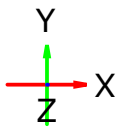
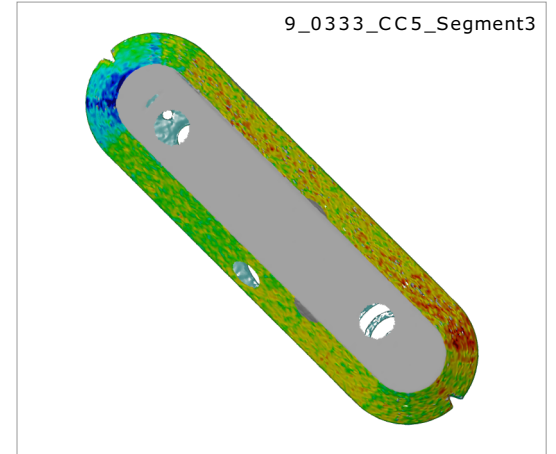


Recoater/Gas Flow Direction

9_0333_CC5_Segment4



9_0333_CC5_Segment3



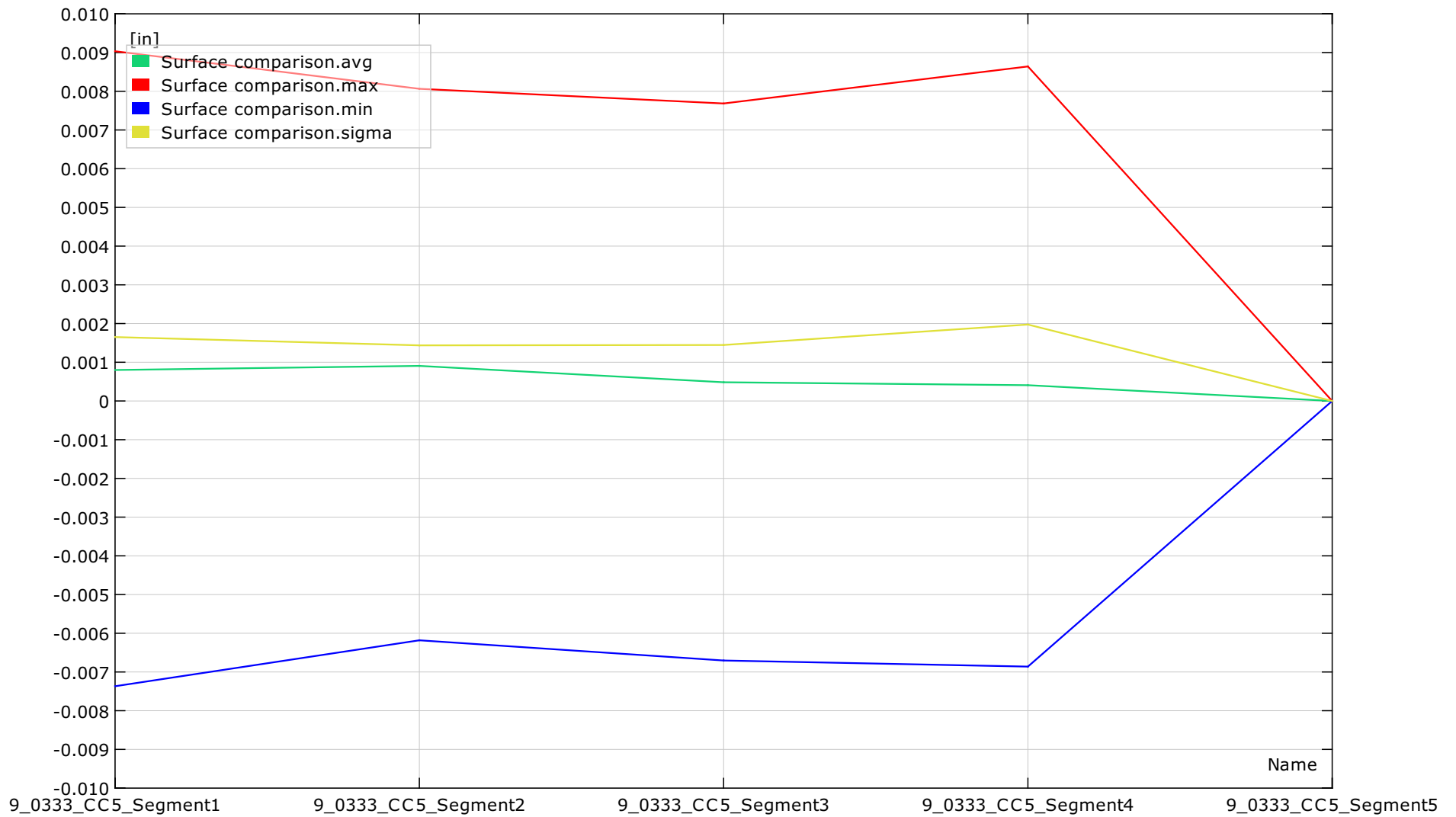
Alignment By Geometric Elements

Length unit: in

Basic Statistics Chart

9_0333_CC5_Segment1

Deviation reference: 9_0333_CC5_Segment5



Alignment By Geometric Elements

Length unit: in