

Simulation Parameter K

STUDIES

FDTD draft

Editor

CONFIGURATION

- Simulation Domain
- Run Time
- Grid Specification
- Boundary and Symmetry
- Shutoff Condition
- Show More

STRUCTURES

- L cavity_slab
- L cavity_structure

SOURCES

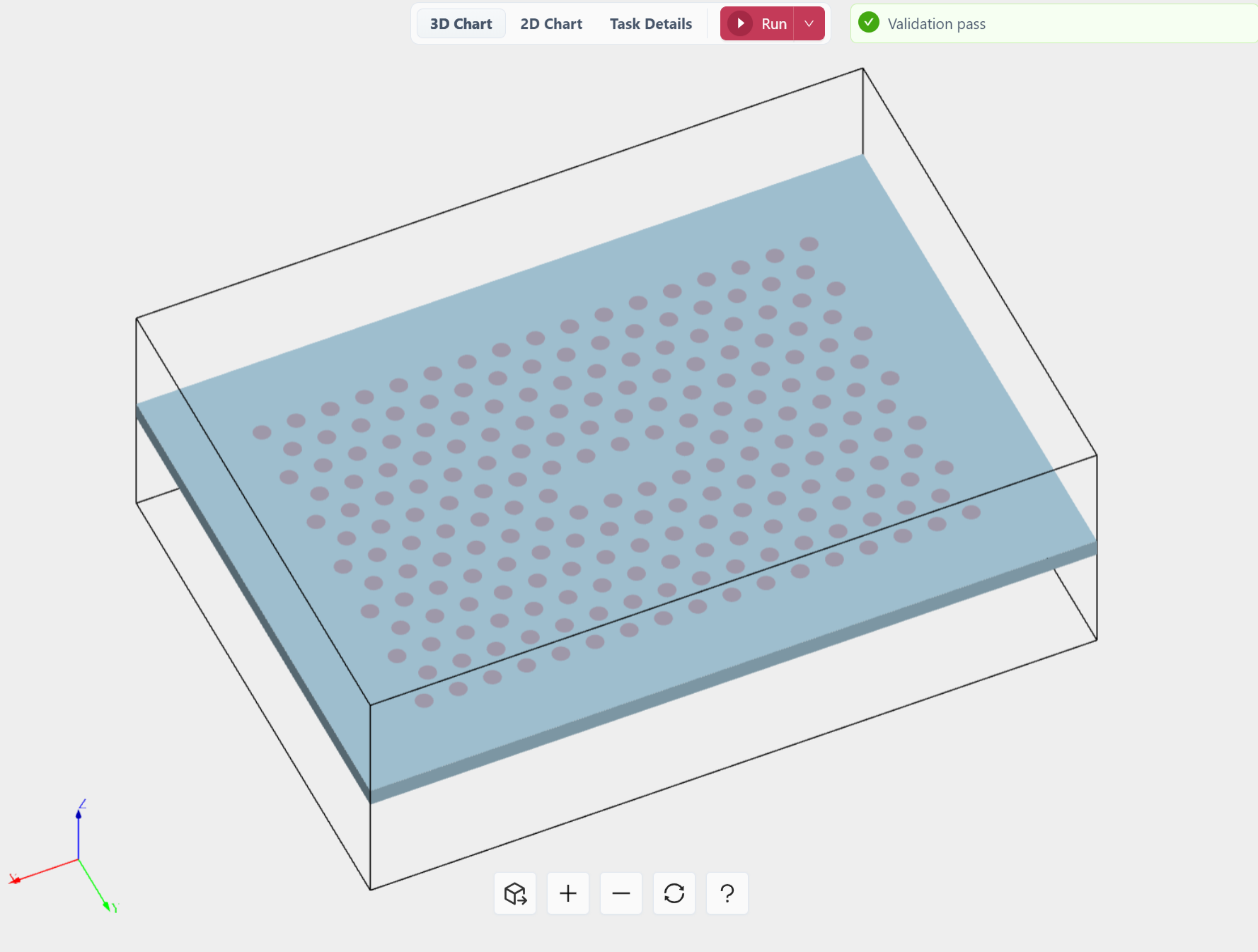
- dipole_src

MONITORS

- field_xy

SCRIPT OBJECTS

- L cavity



Visibility

Symmetry

Axes

Ruler

Simulation Domain

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Monitors(1/1)

Structures(213/213)

- L cavity_slab
- L cavity_structure(212/212)

Script Objects(1/1)

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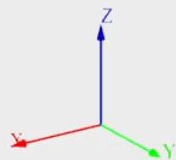
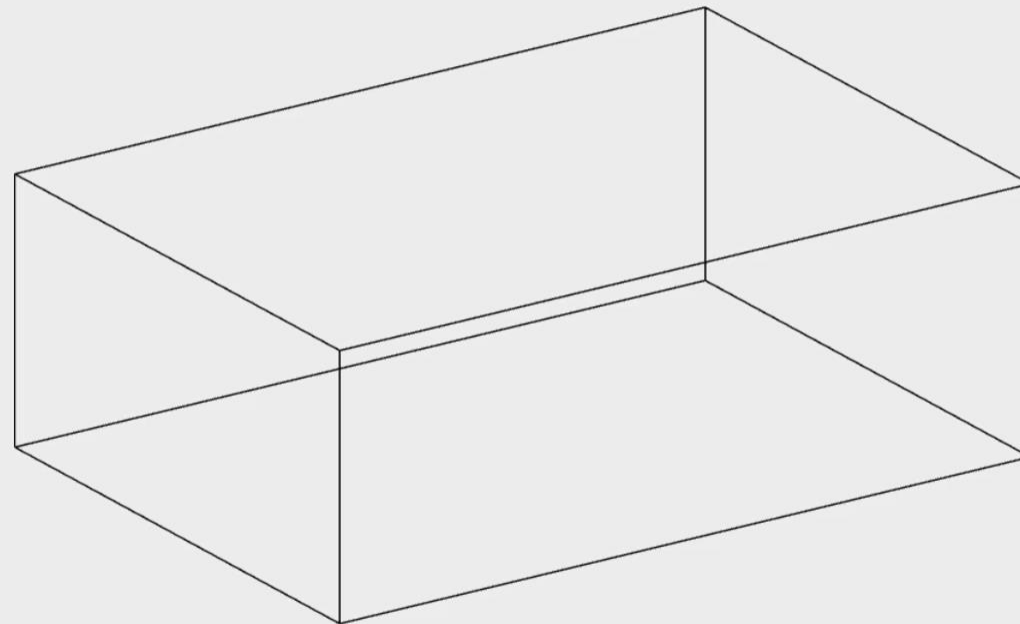
Show More

STRUCTURES

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Simulation Parameter ⏪

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> 📄 MONITORS +

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3D Chart

2D Chart

Task Details

▶ Run ▾

✔ Validation pass

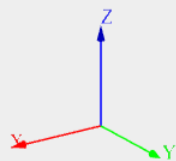
⌵ Visibility

📁 Symmetry

📁 Axes

📁 Ruler

📁 Simulation Domain 🗨

> **Sources**(0/1)> **Monitors**(0/1)



Simulation Parameter ⏪

- ▼ Variable
- nx 16
- ny 14
- lat_const 0.4
- hole_rad 0.1
- slab_t 0.22

▼ Constant

cpiinf

▼ Medium

VacuumSi

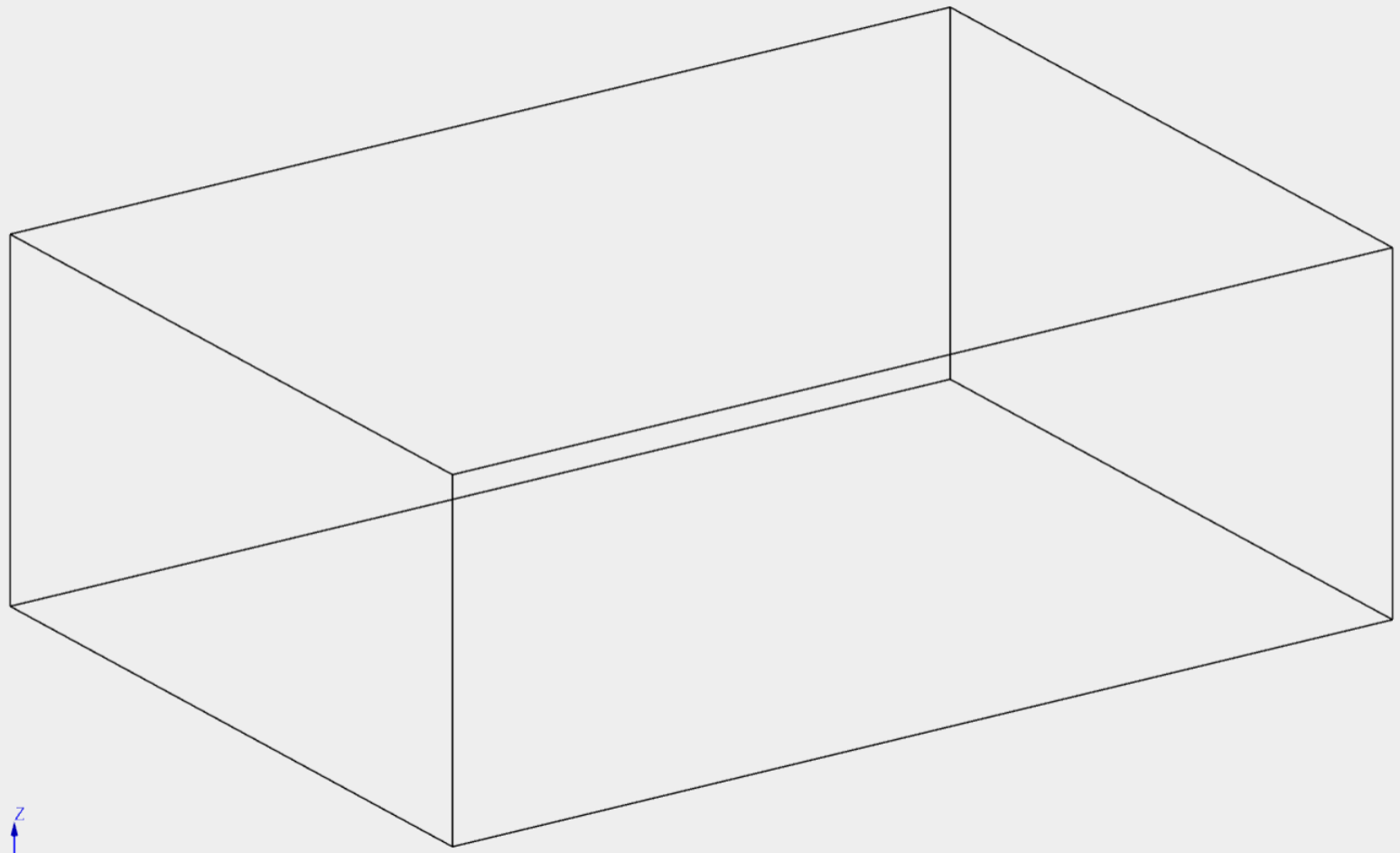
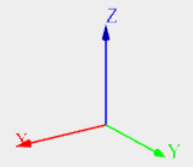
3D Chart 2D Chart Task Details

▶ Run ▾

✓ Validation pass

⌵ Visibility

- Symmetry
- Axes
- Ruler
- Simulation Domain
- > Sources(0/1)
- > Monitors(0/1)



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Simulation Domain ⓘ Help

center + size

center

X0μm

Y0μm

Z0μm

bounds

size

X8.5μm

Y6μm

Z3μm

* background medium

Vacuum ▾ ↗

type: Medium

permittivity: 1

conductivity: 0 S/μm

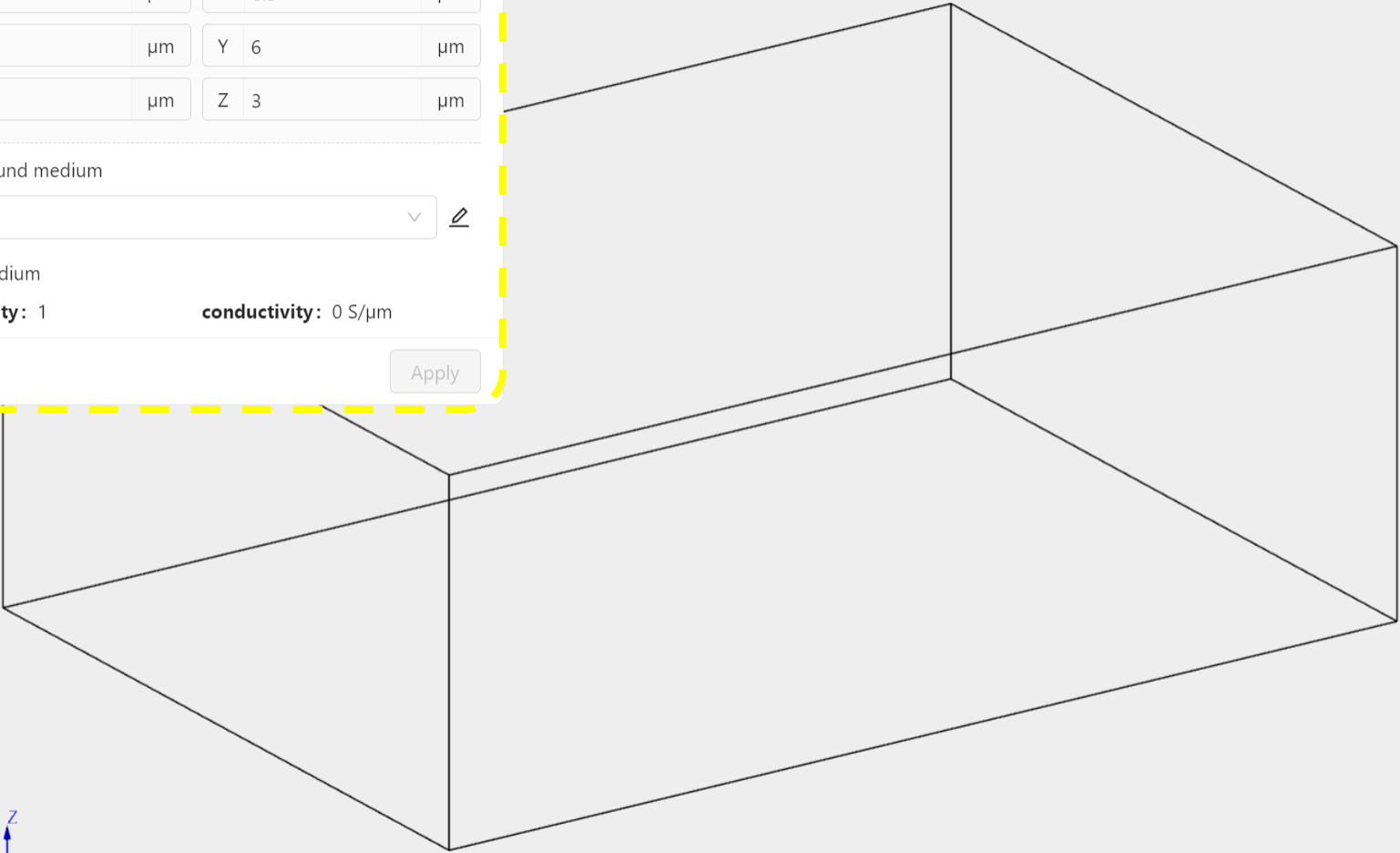
Apply

2D Chart

Task Details

Run ▾

Validation pass



X Y Z

+

-

↺

?

Visibility

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Simulation Domain

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Boundary and Symmetry

Boundary ConditionHelp

x

-PML

+PML

y

-PML

+PML

z

-PML

+PML

SymmetryHelp

x

Even, i.e. 'PMC' symmetry

y

Odd, i.e. 'PEC' symmetry

z

Even, i.e. 'PMC' symmetry

Apply

3D Model

2D Chart

Task Details

Run

Validation pass

x

y

z

+

-

↺

↻

?

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✓ STUDIES



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✓ STRUCTURES



✓ SOURCES



dipole_src

> MONITORS



✓ SCRIPT OBJECTS



Edit Source ⓘ Help

T X

Chart

2D Chart

Task Details

▶ Run ▾

✓ Validation pass

> Visibility

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Axes

Ruler

Simulation Domain



> Sources(0/1)

> Monitors(0/1)

name

dipole_src

* type

PointDipole ▾

center

X

0

μm

Y

0

μm

Z

0

μm

* polarization

Ey ▾

* source_time

Plot >

GaussianPulse ▾

☒ wavelength☐ frequency

λmin

1.47

μm

λmax

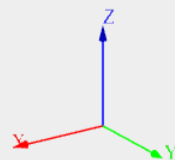
1.6

μm

☐ Customize source bandwidth

0.5

Apply



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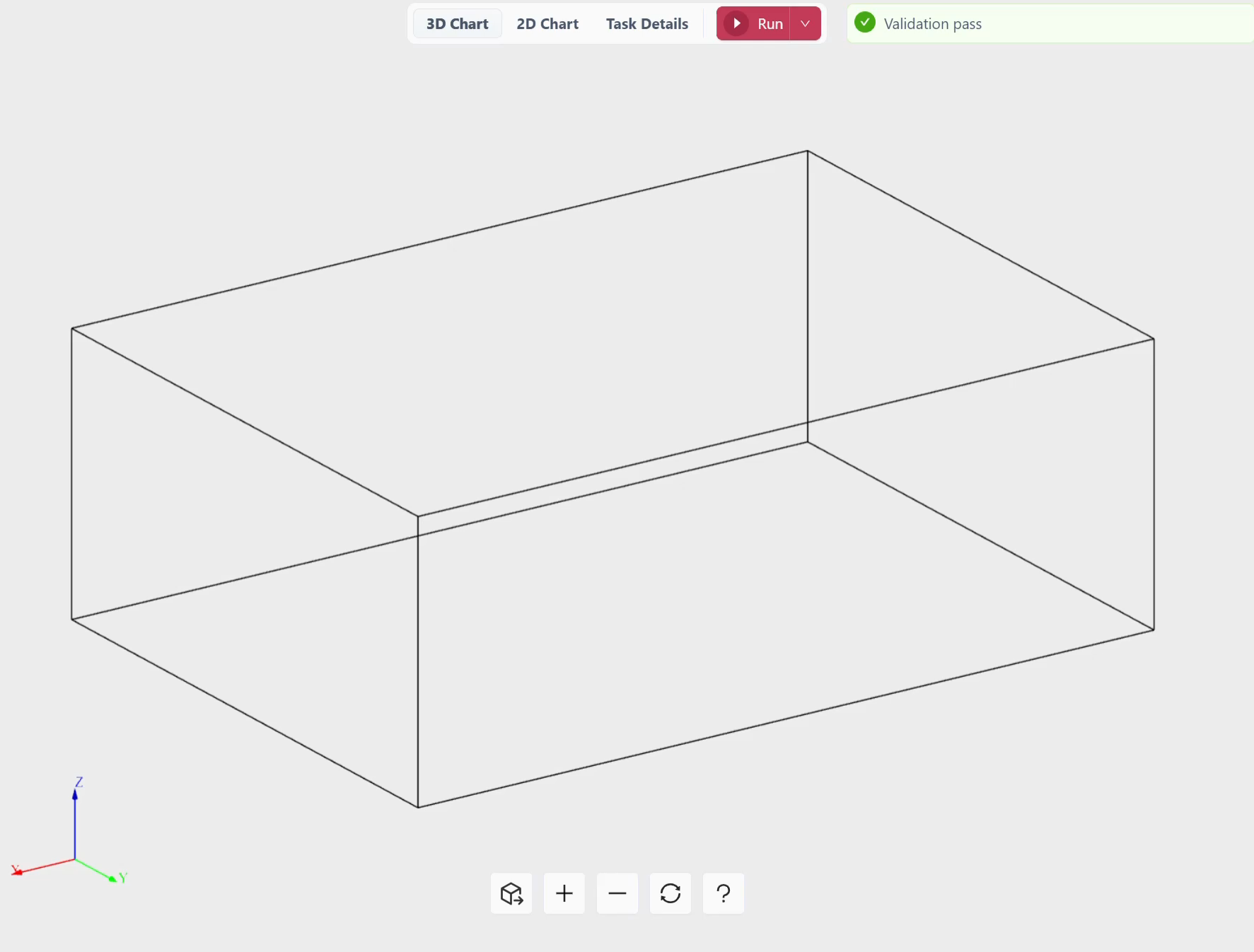
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