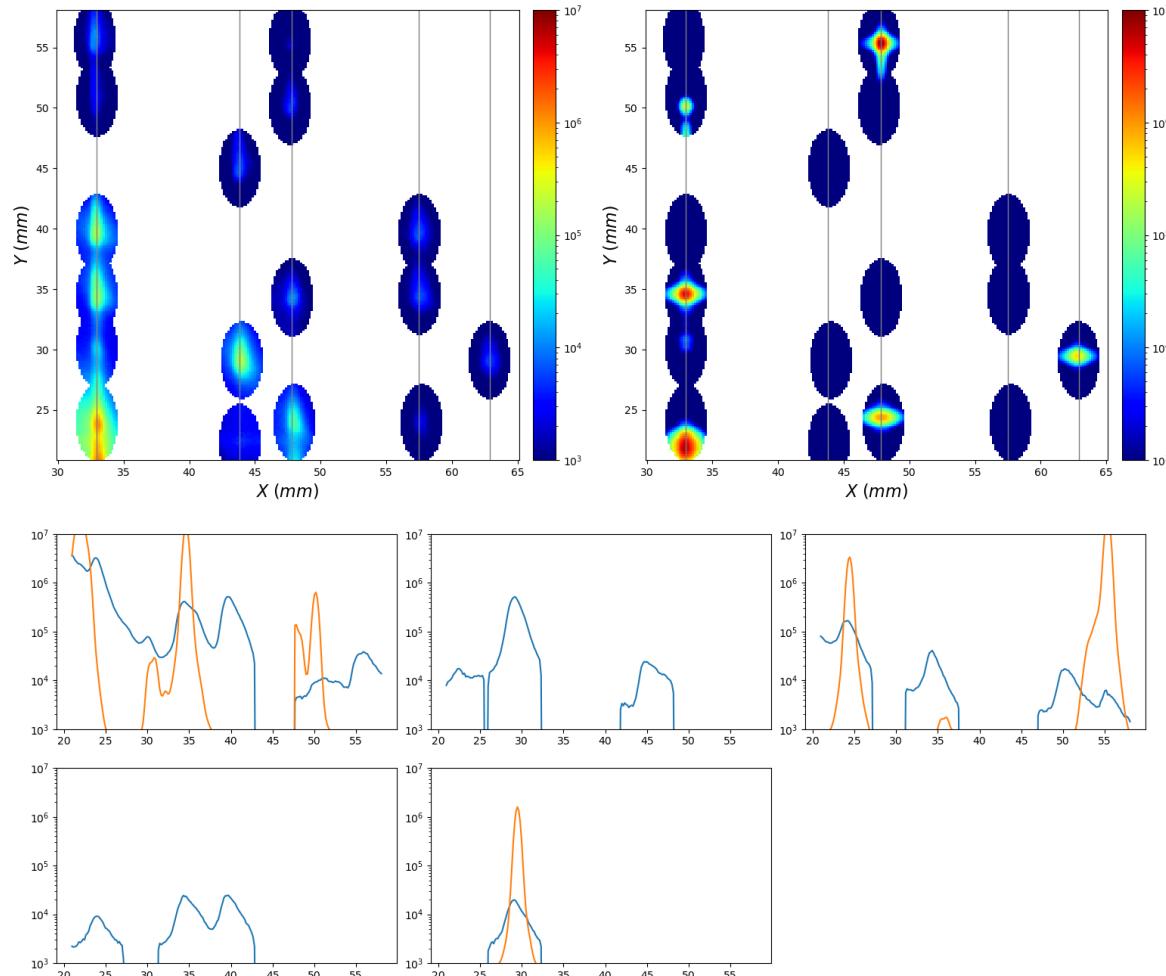


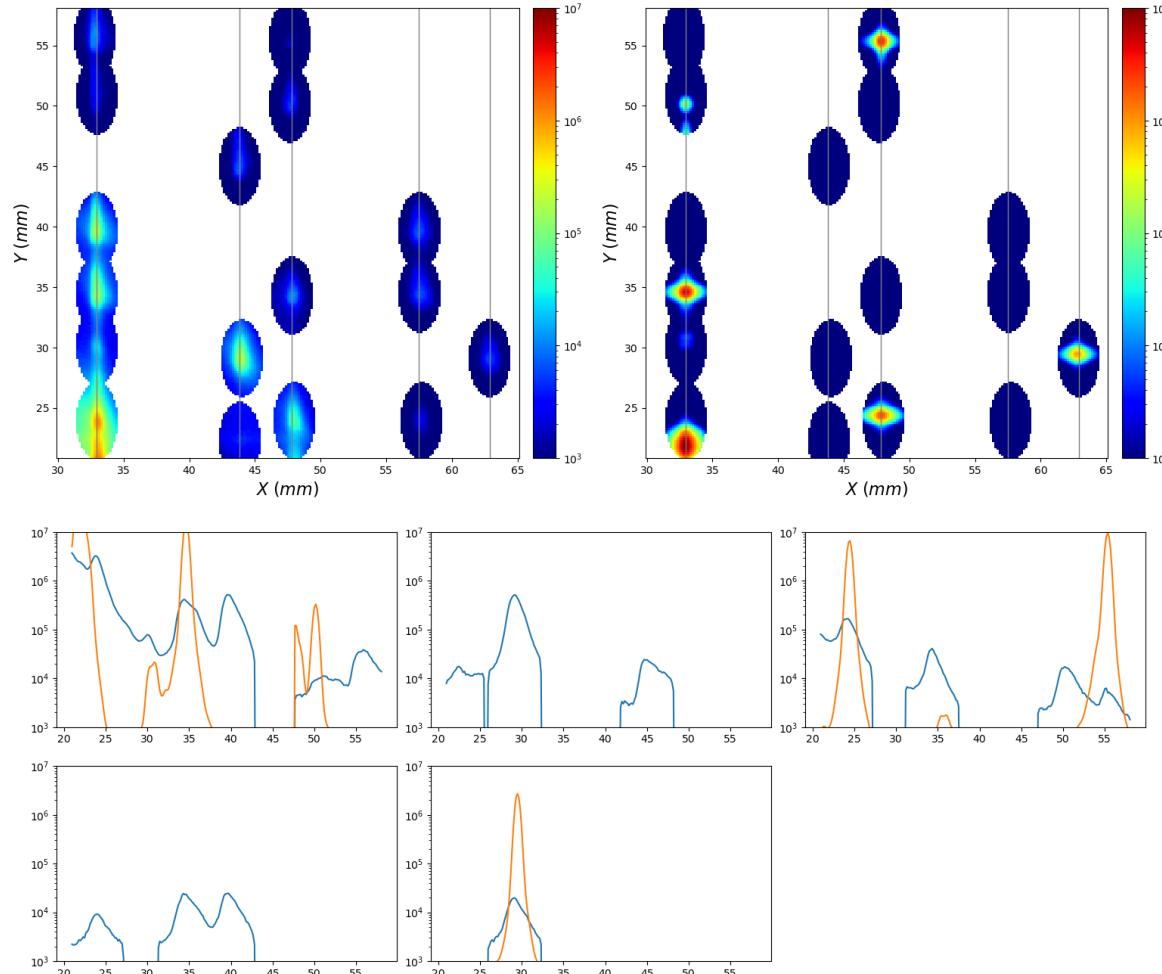
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -2.0
}
```



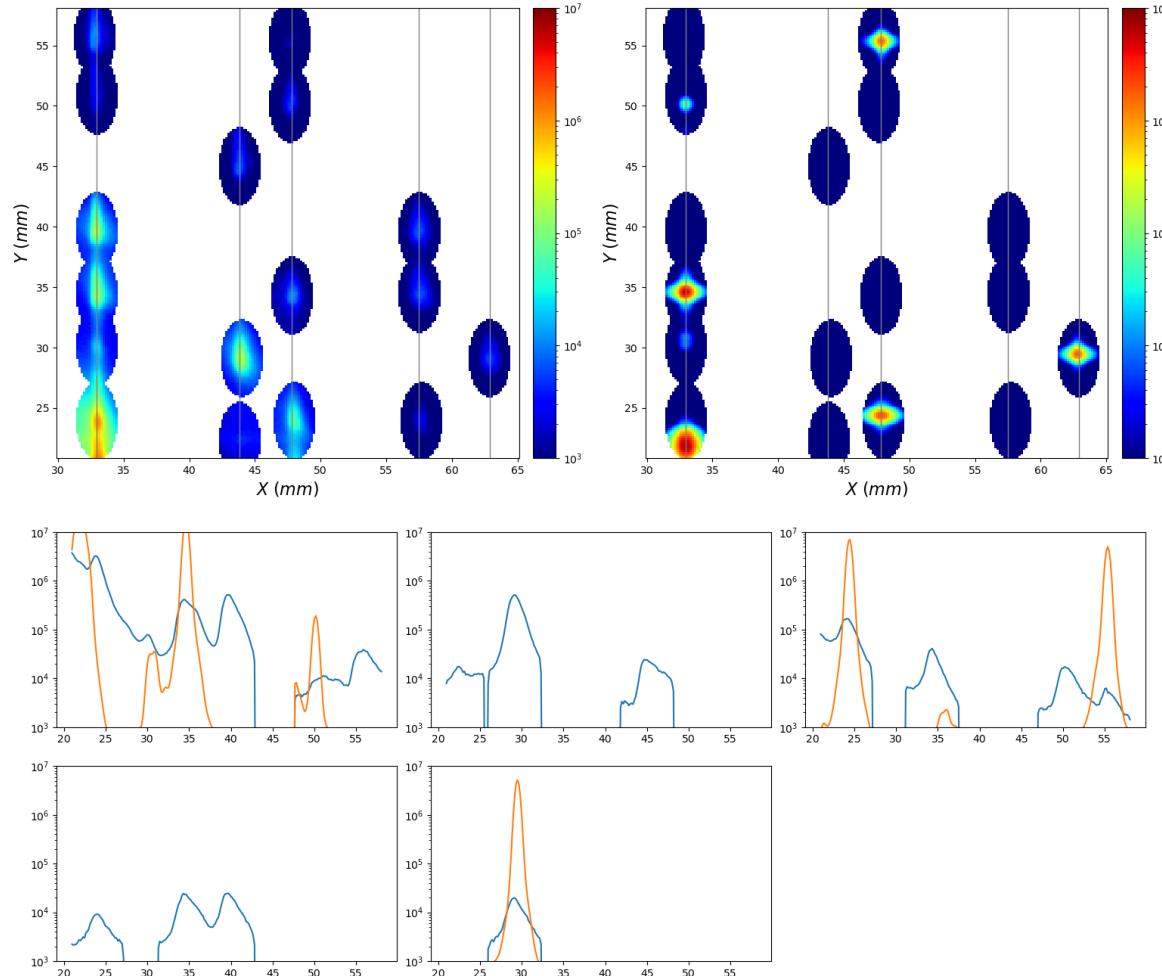
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.8974358974358974
}
```



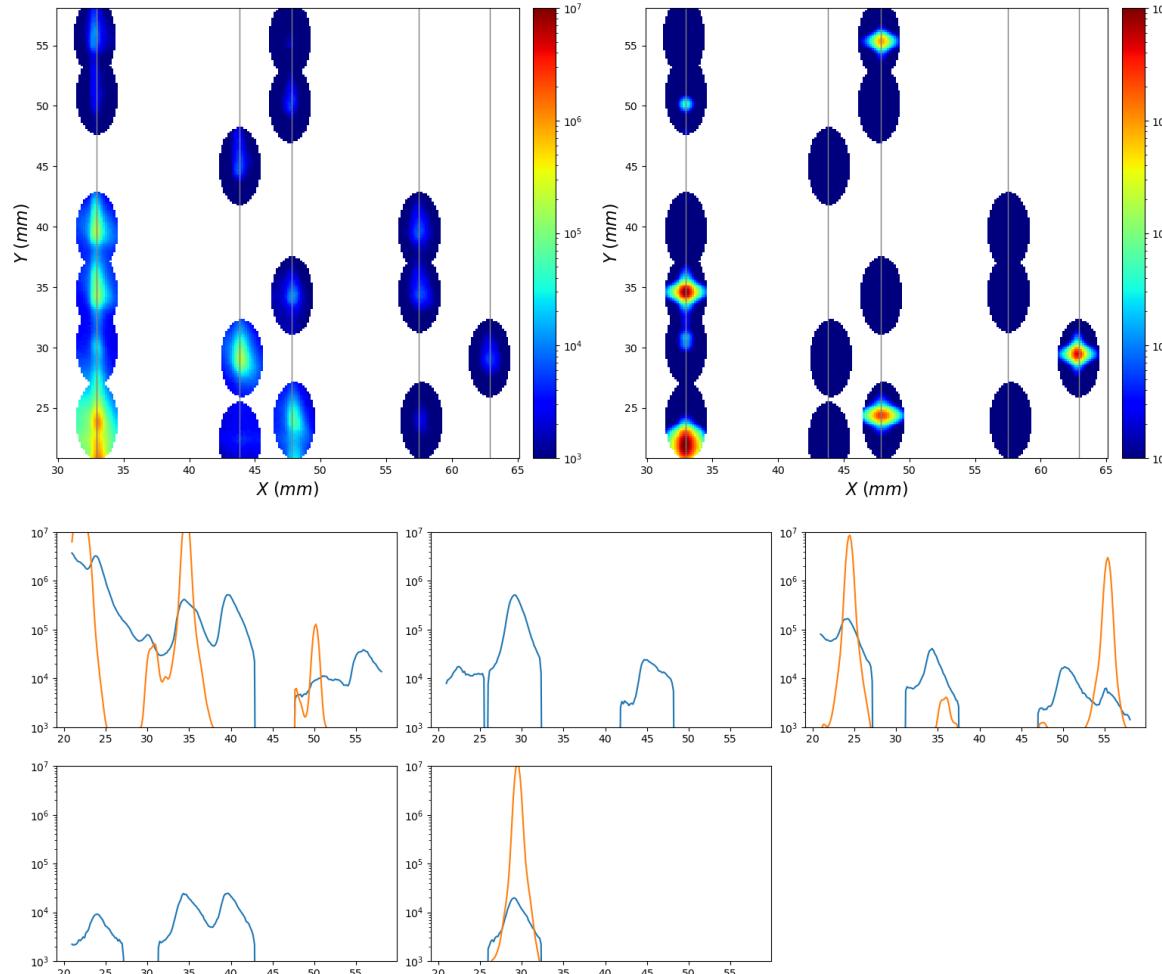
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.794871794871795
}
```



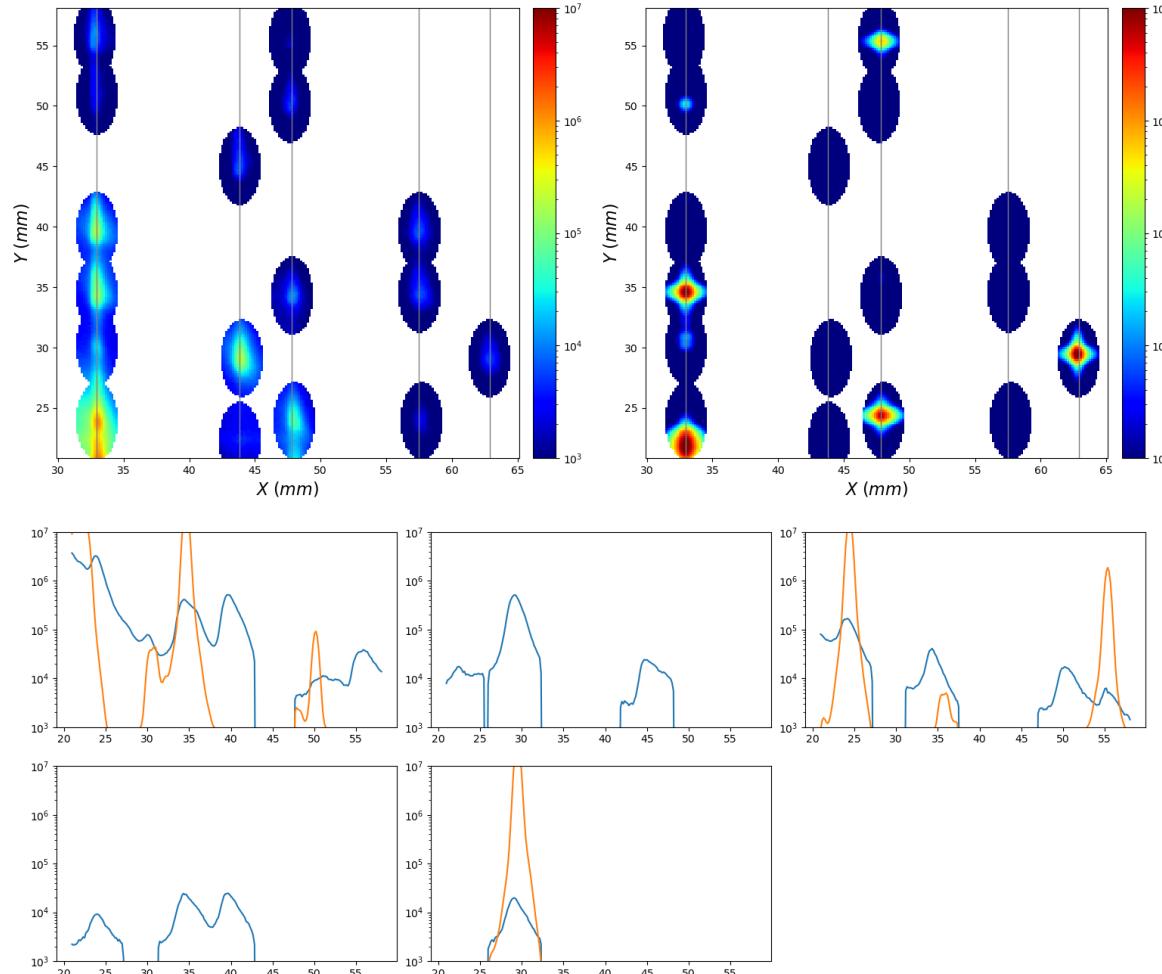
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.6923076923076923
}
```



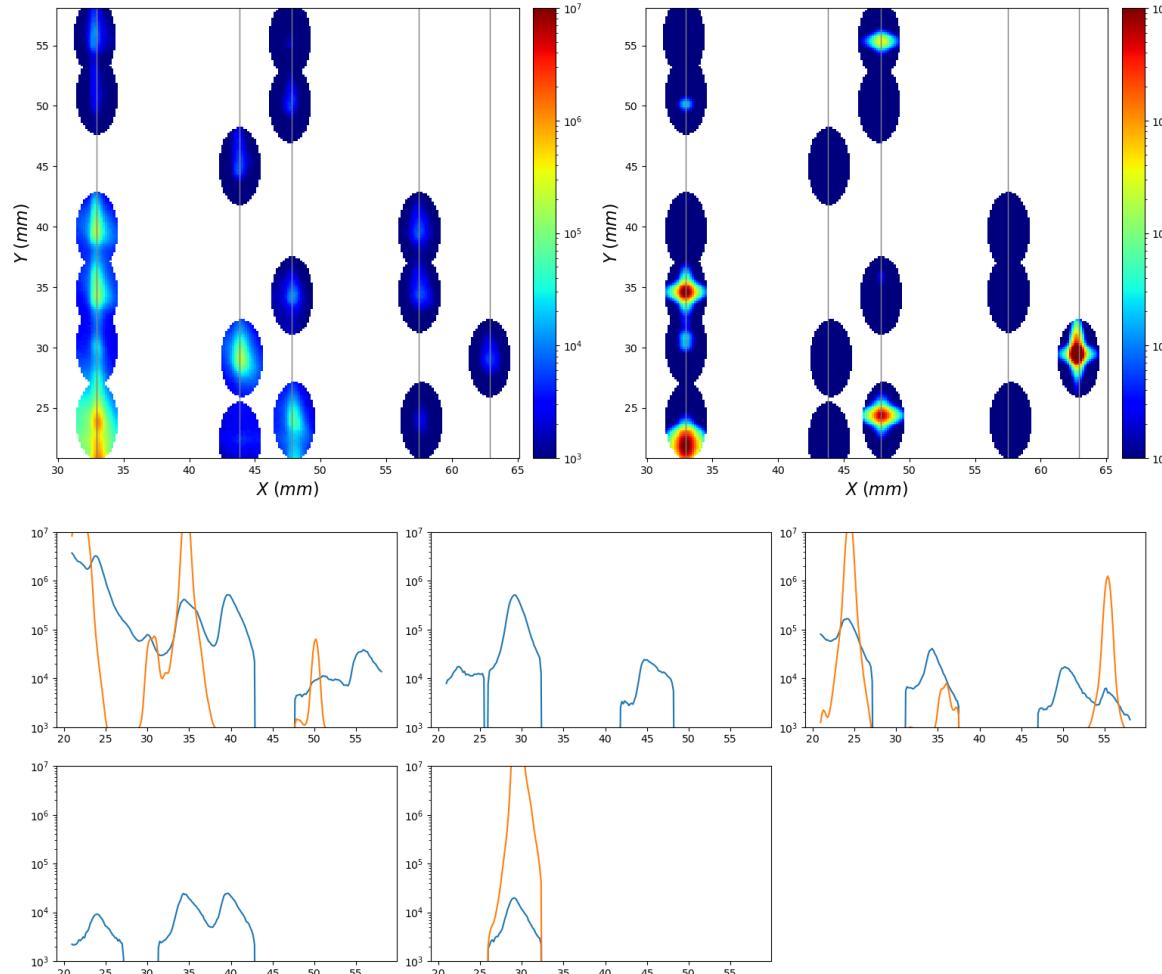
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.5897435897435899
}
```



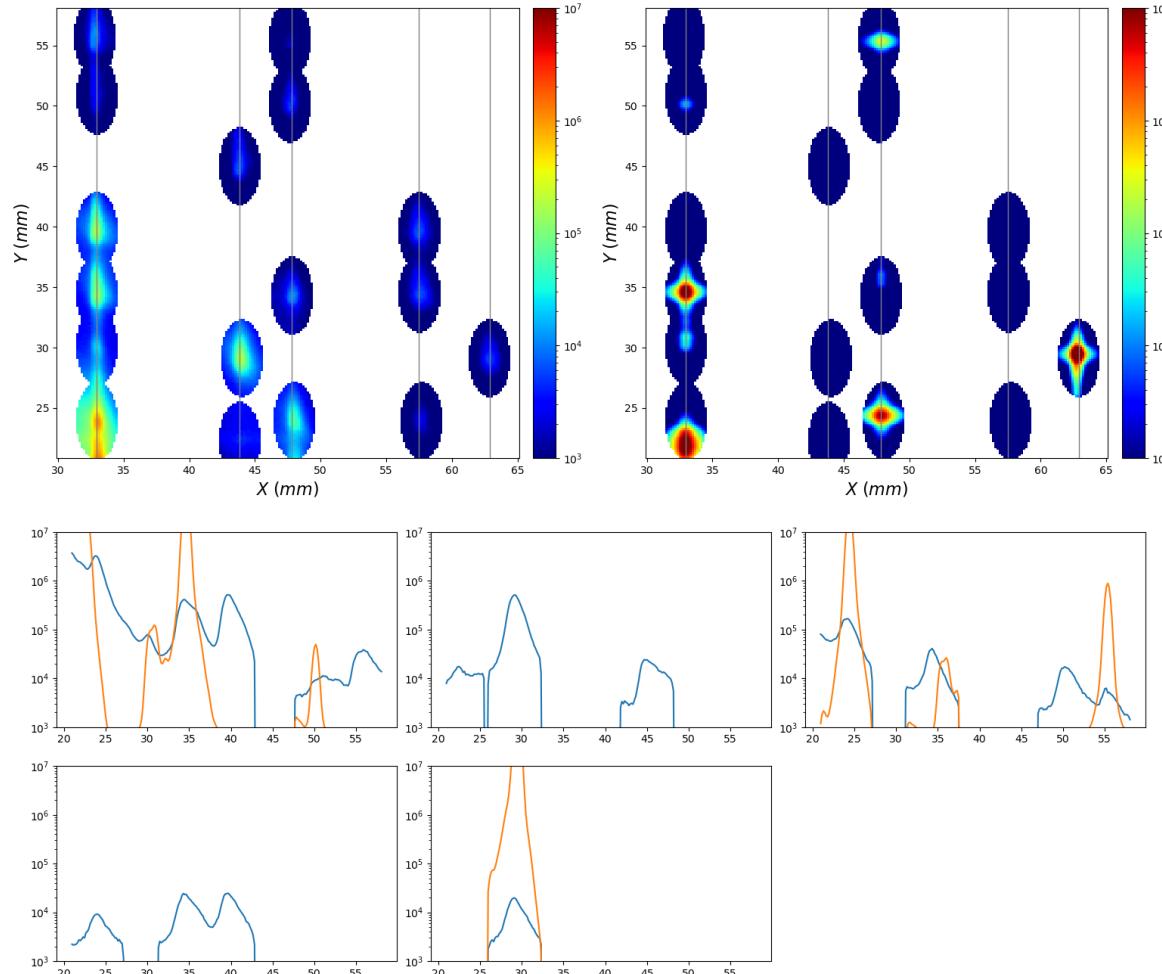
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.4871794871794872
}
```



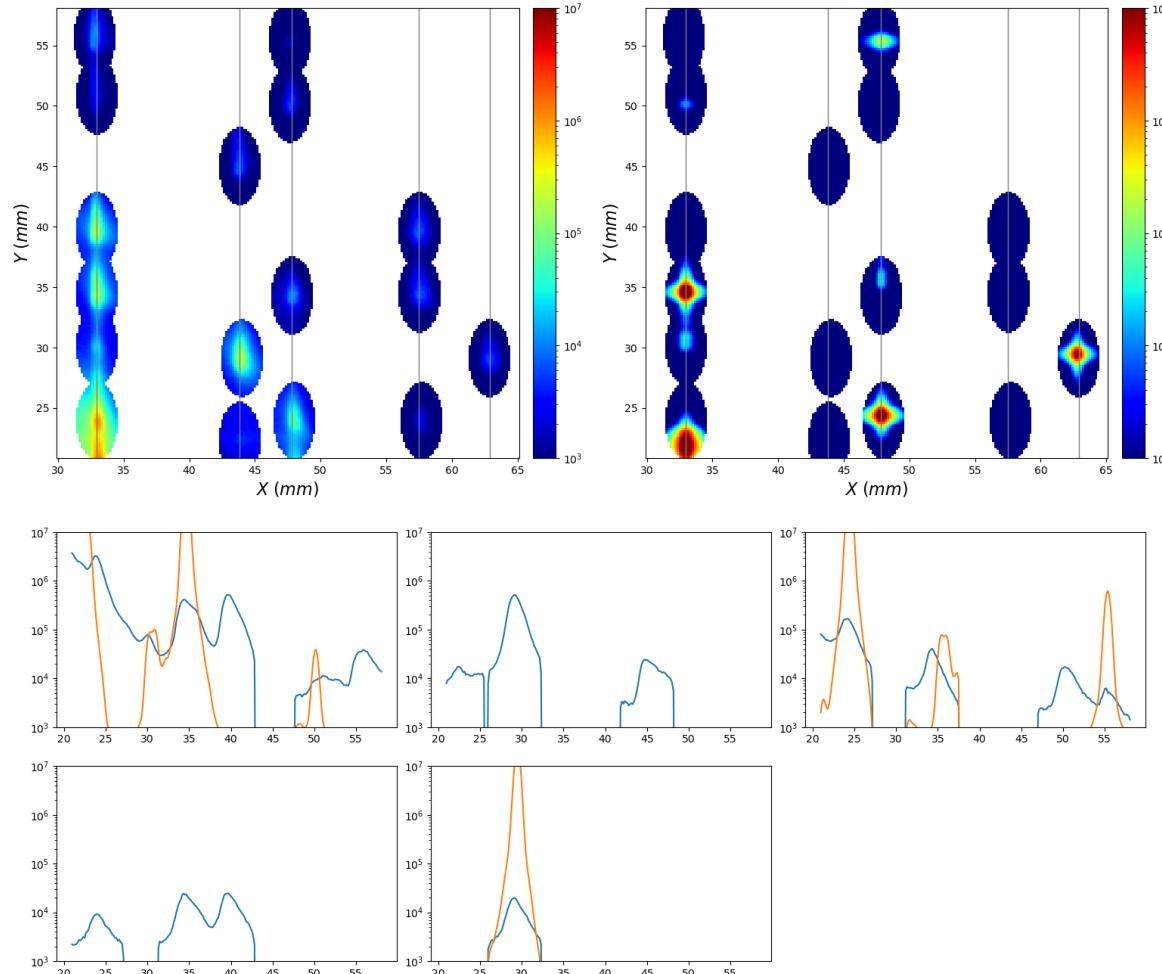
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.3846153846153846
}
```



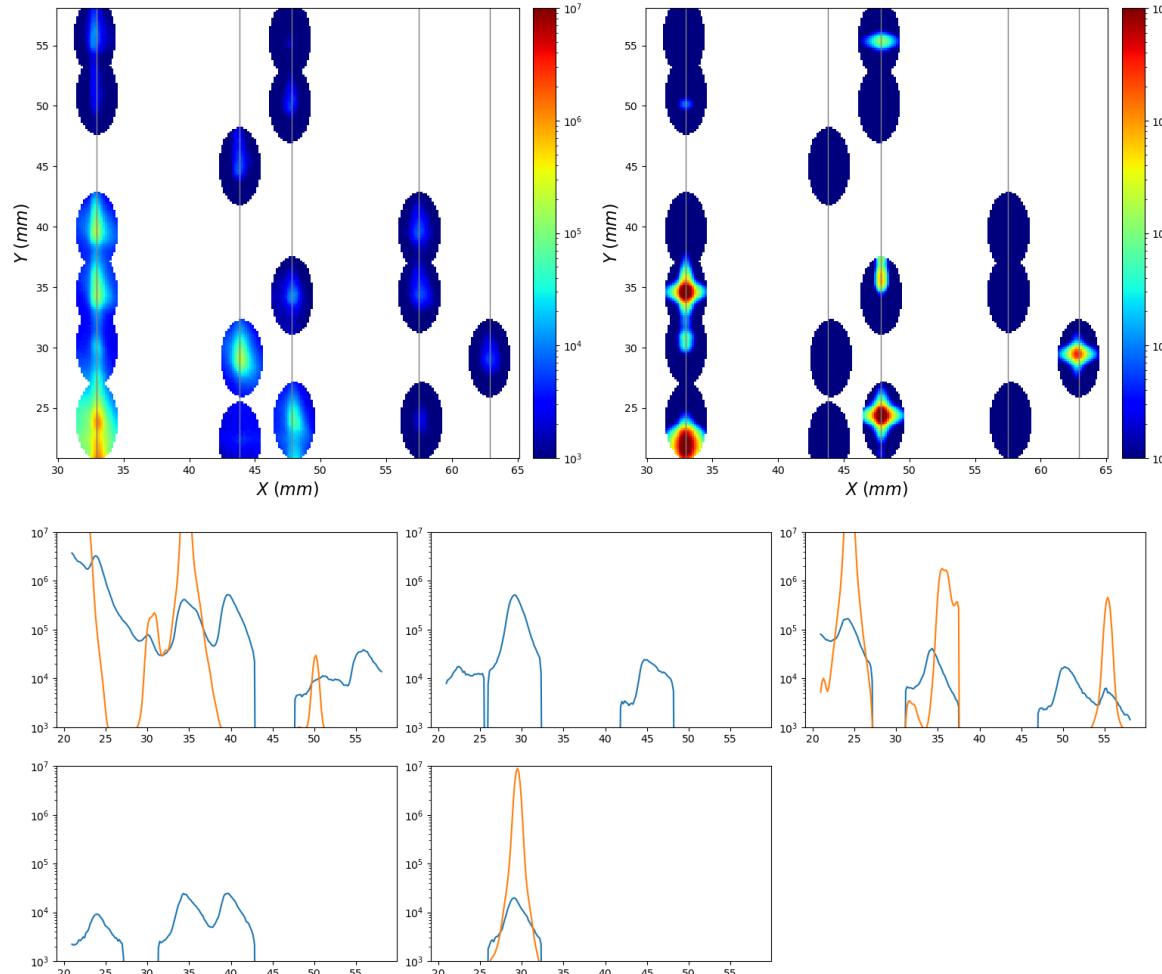
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.282051282051282
}
```



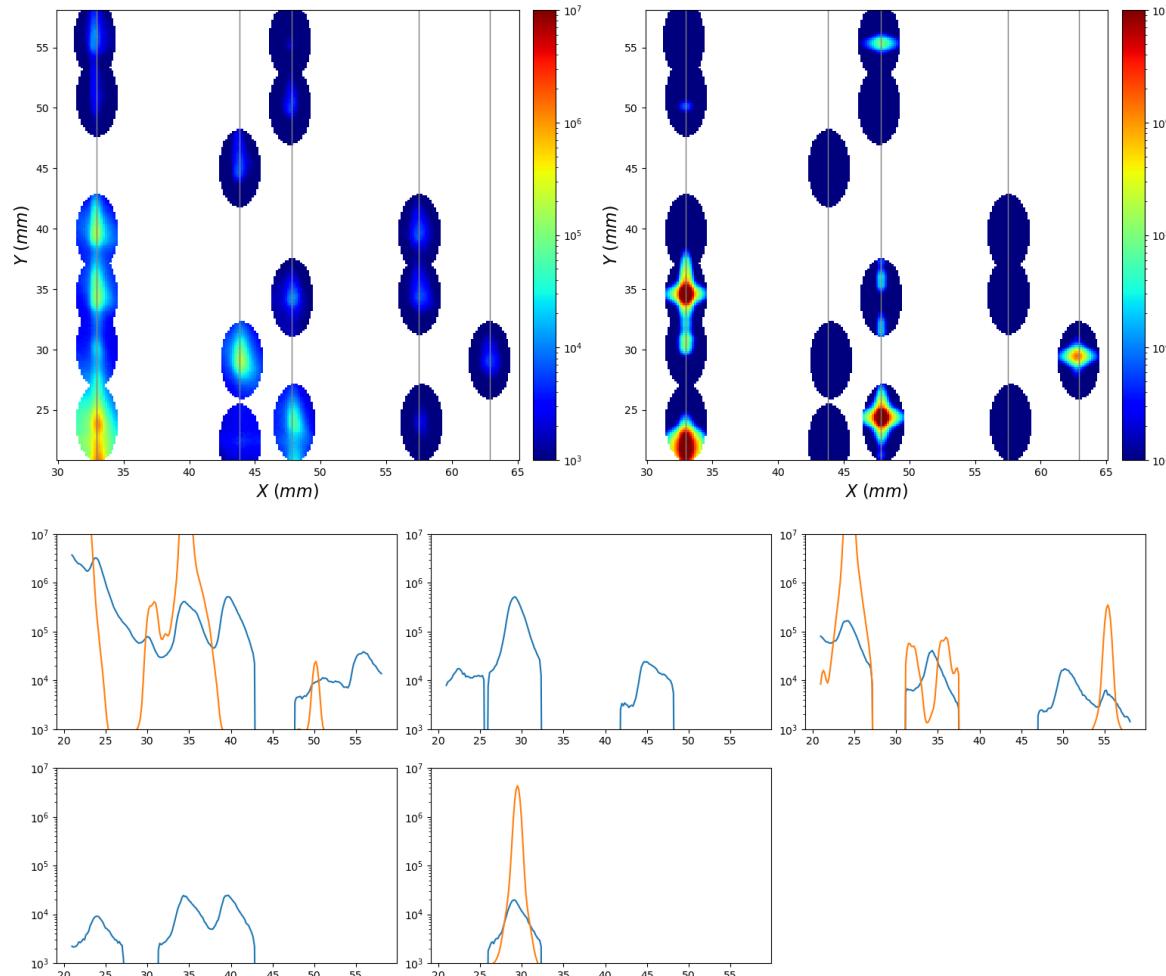
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.1794871794871795
}
```



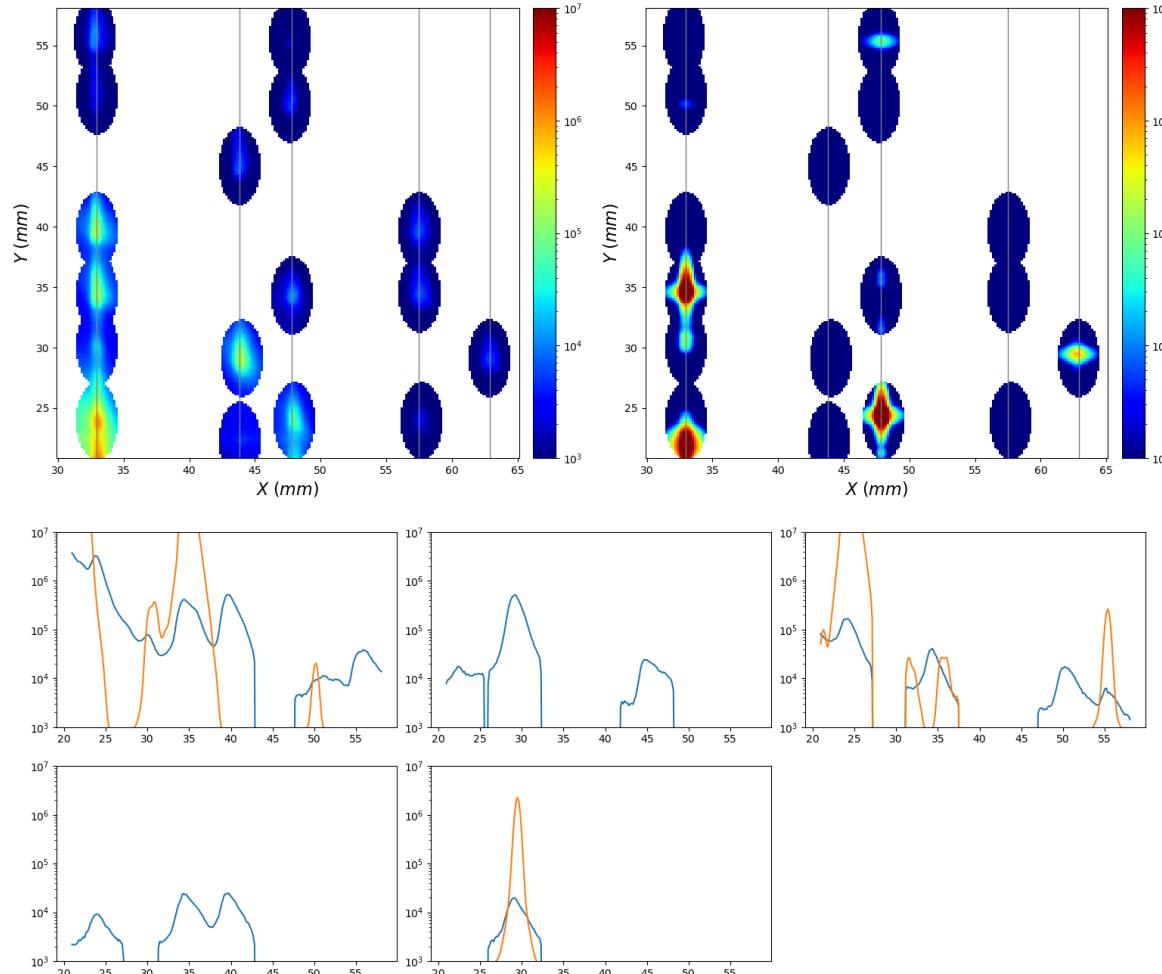
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.076923076923077
}
```



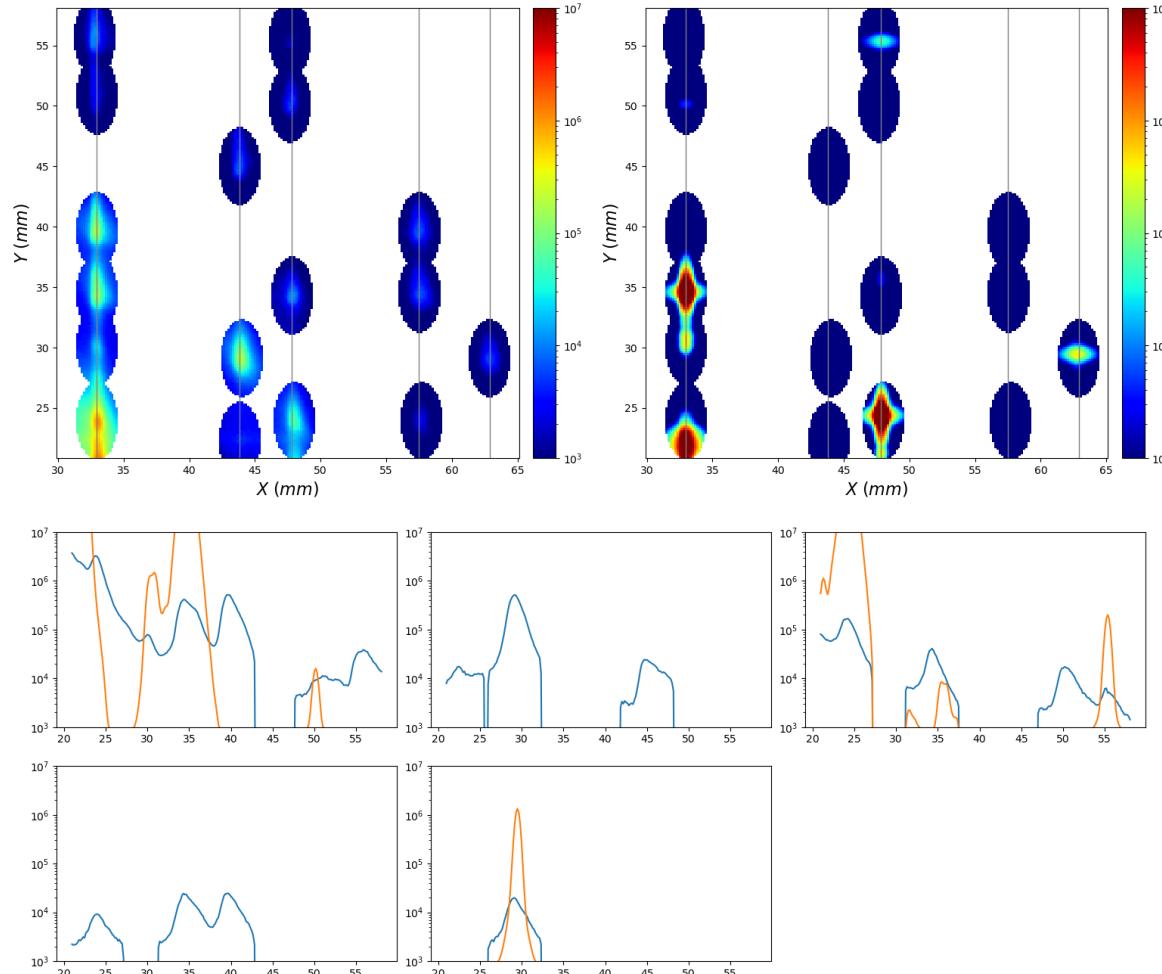
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.9743589743589745
}
```



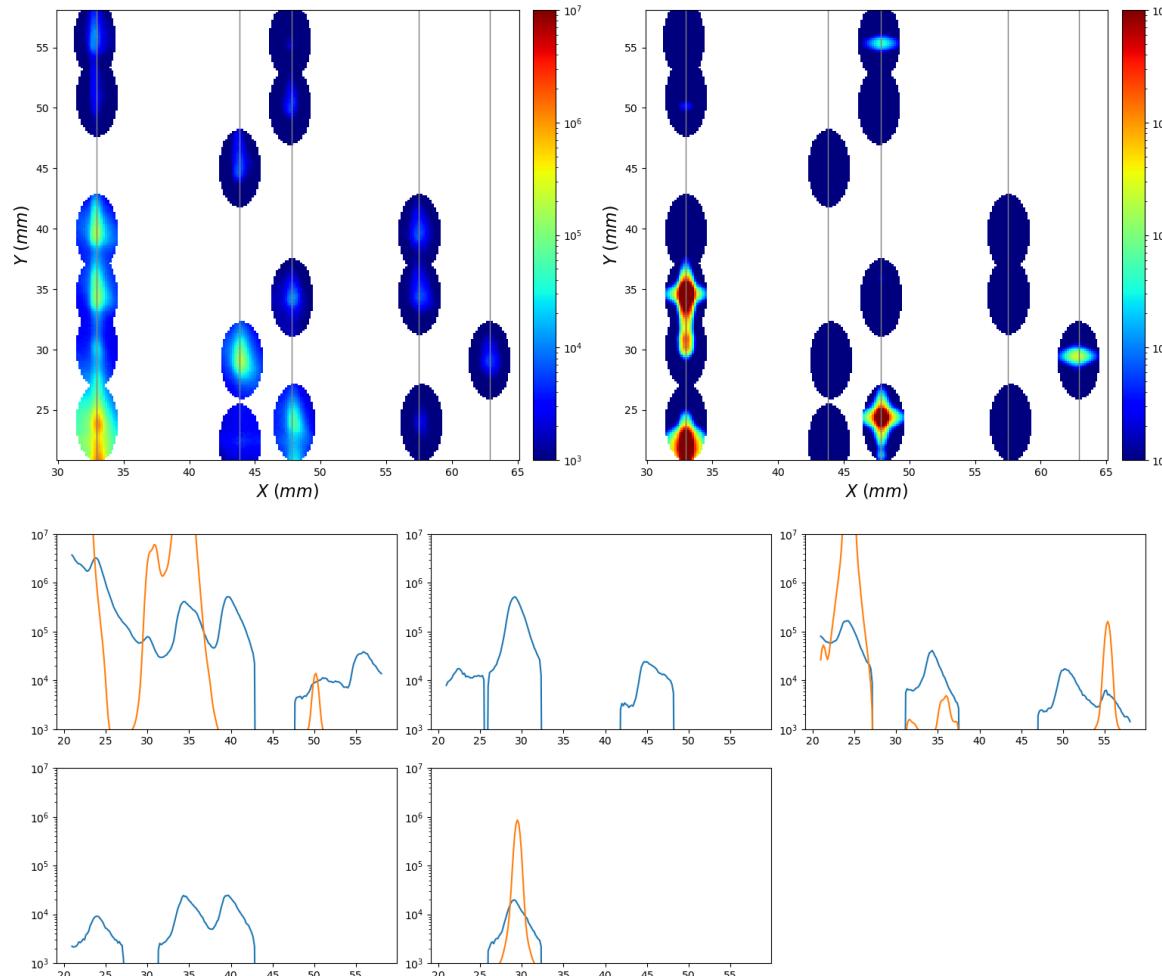
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.8717948717948718
}
```



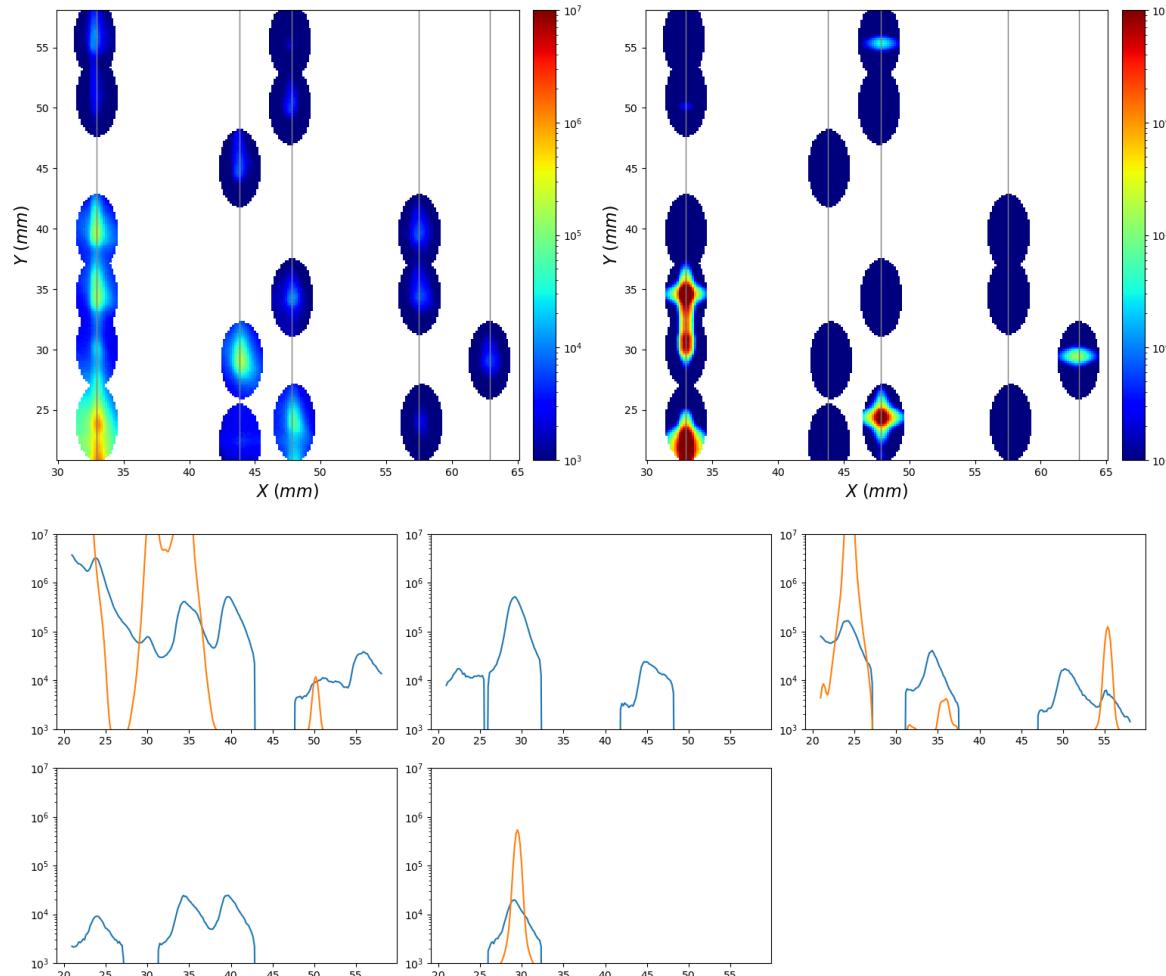
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.7692307692307692
}
```



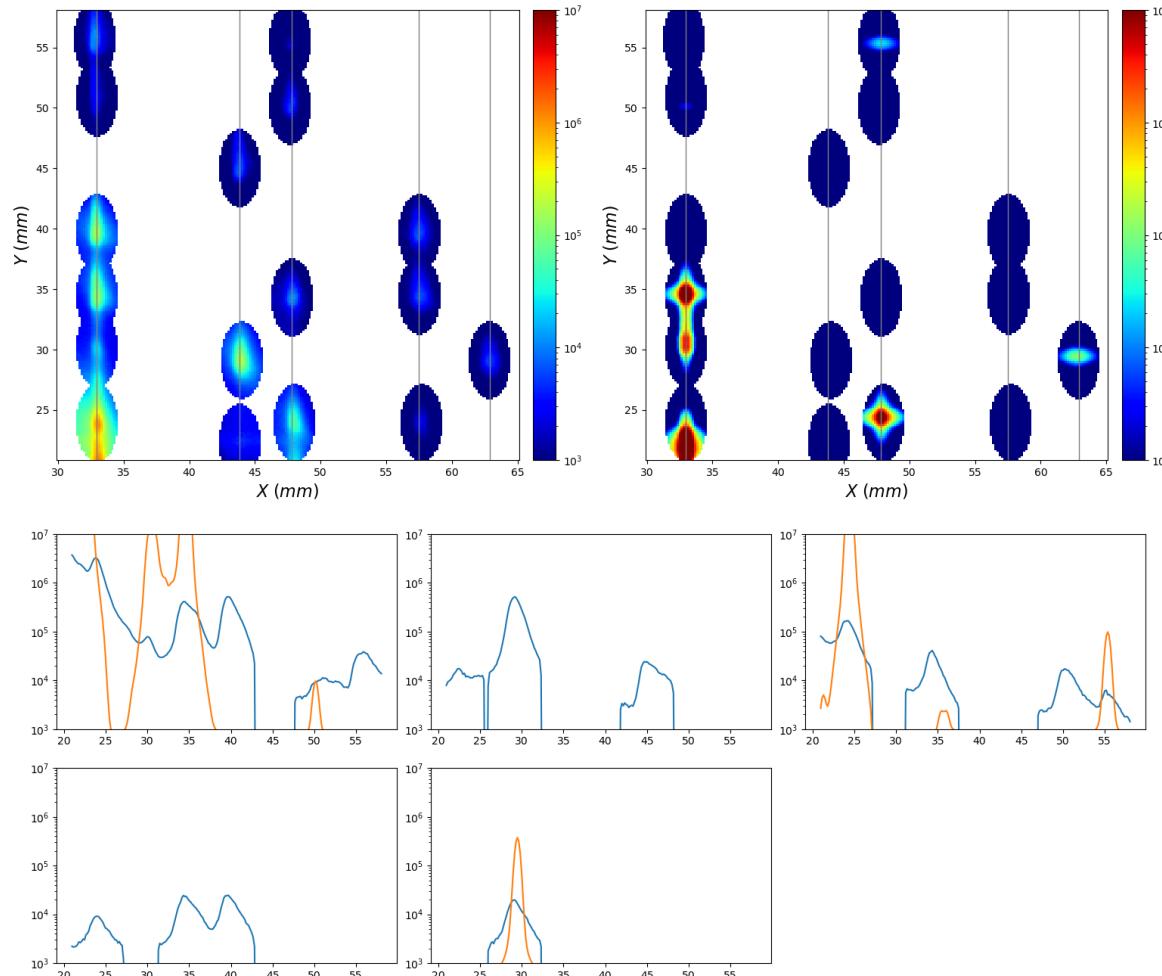
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.6666666666666667
}
```



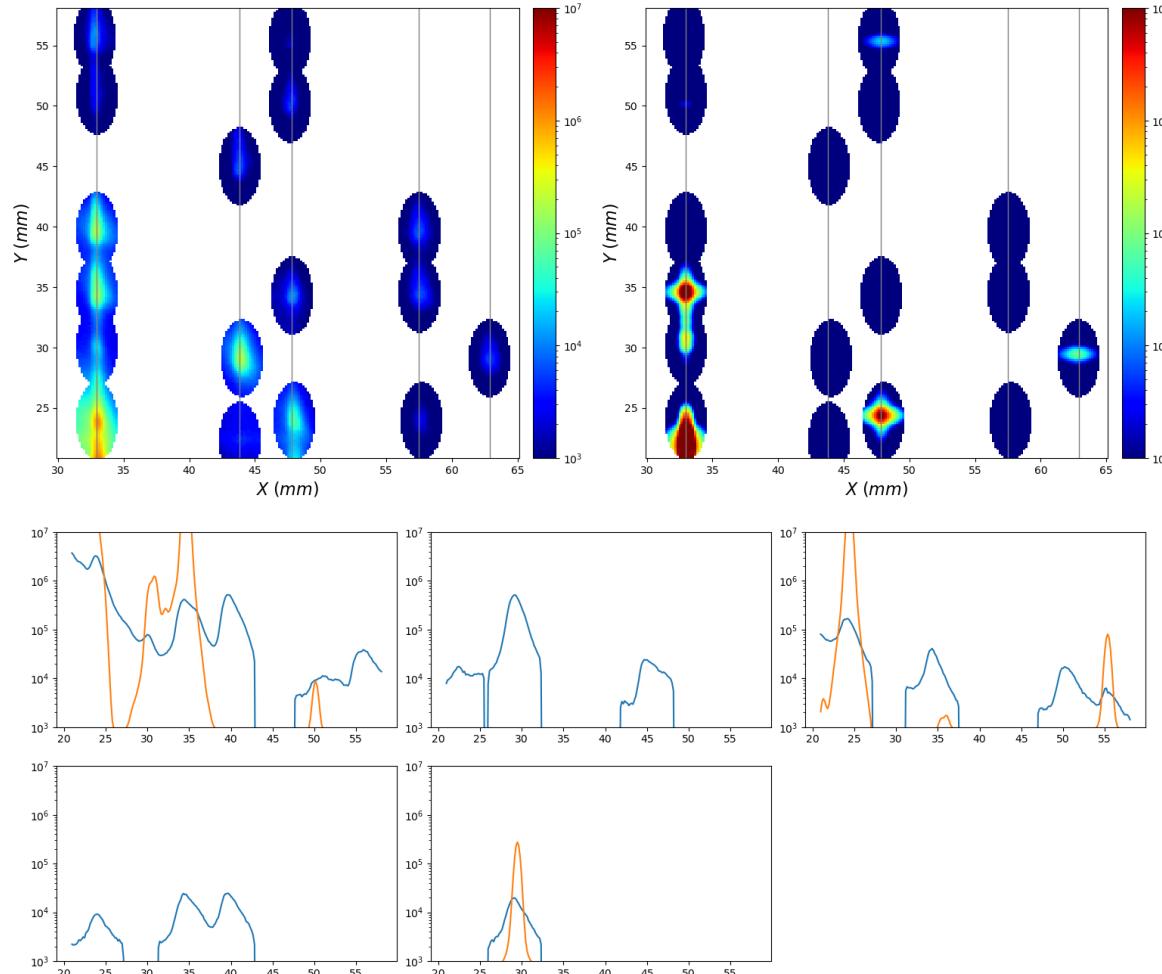
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.5641025641025641
}
```



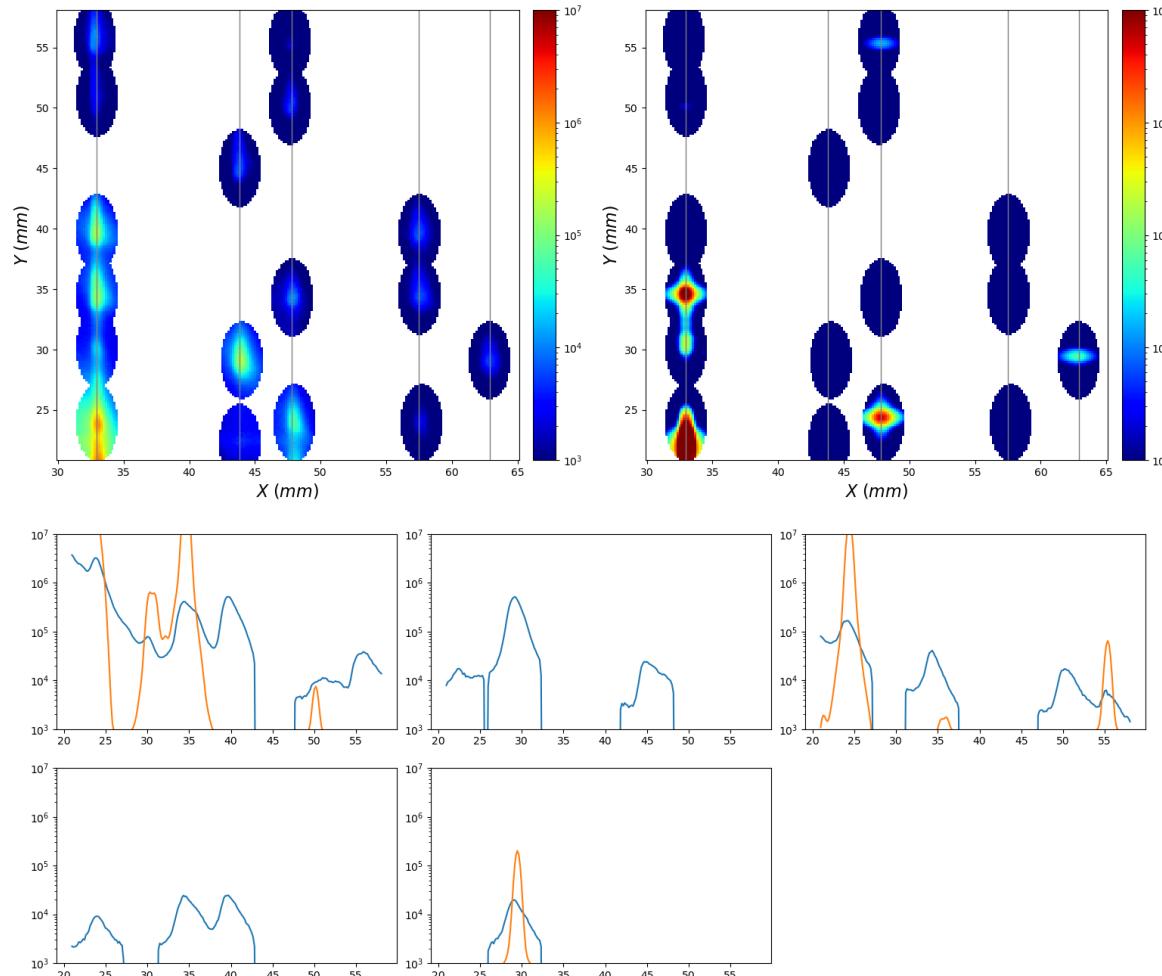
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.4615384615384617
}
```



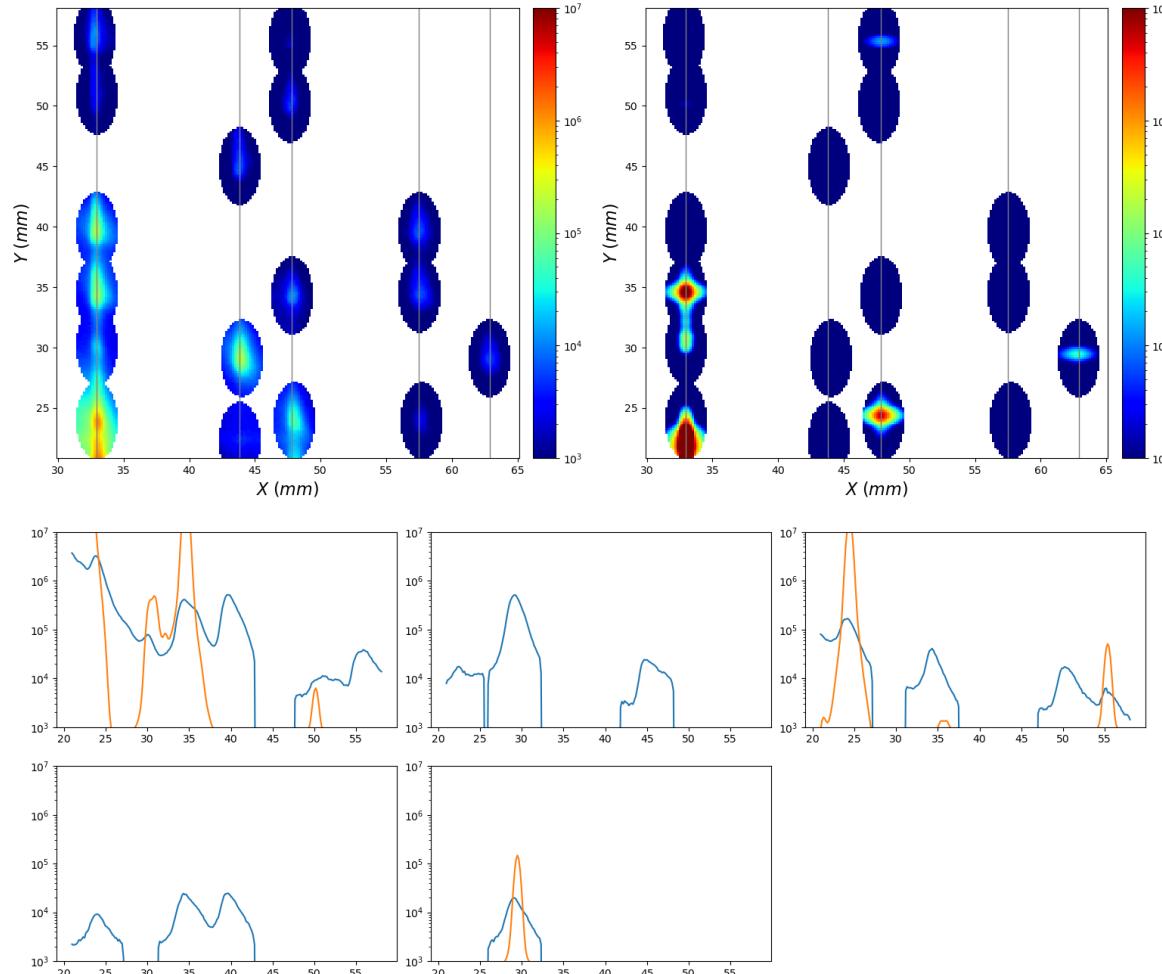
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.35897435897435903
}
```



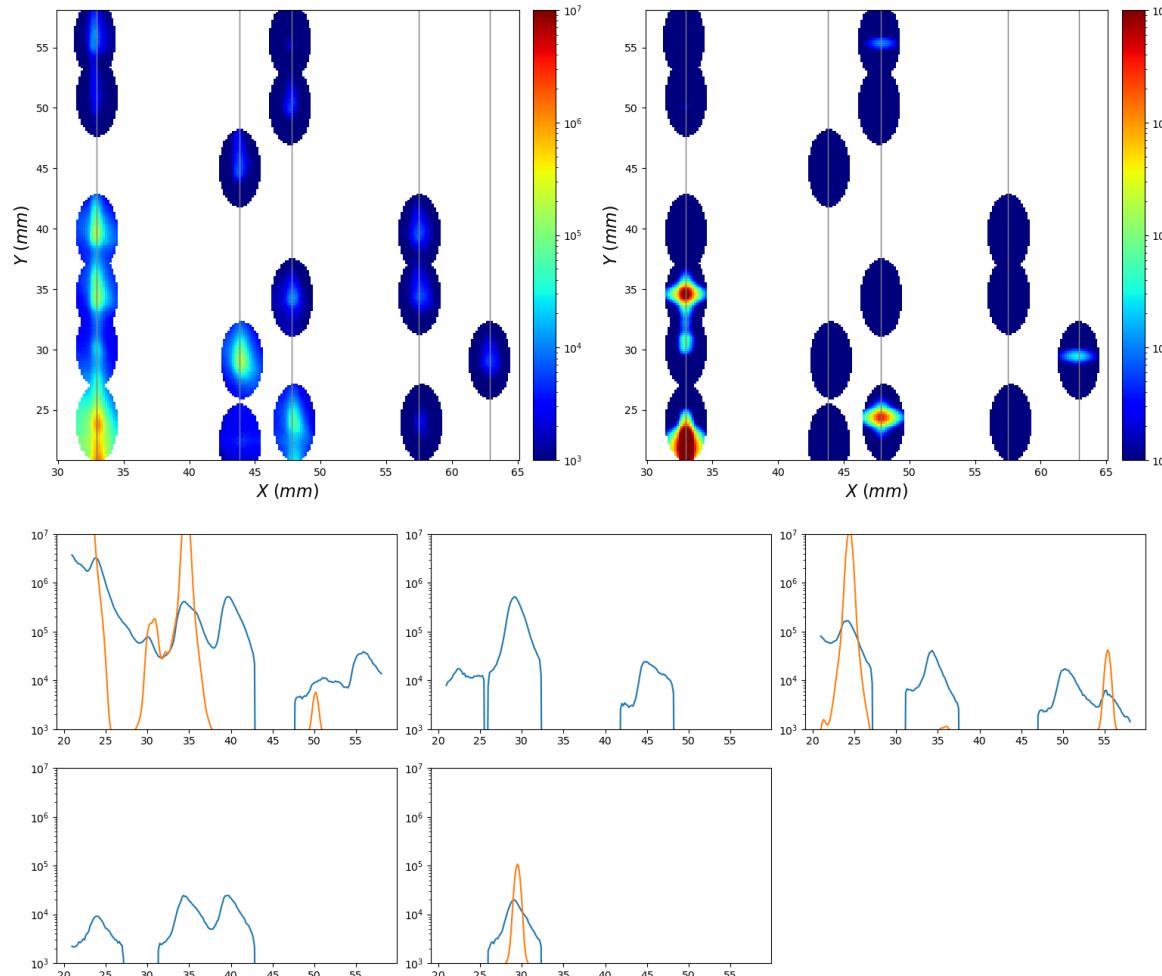
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.2564102564102564
}
```



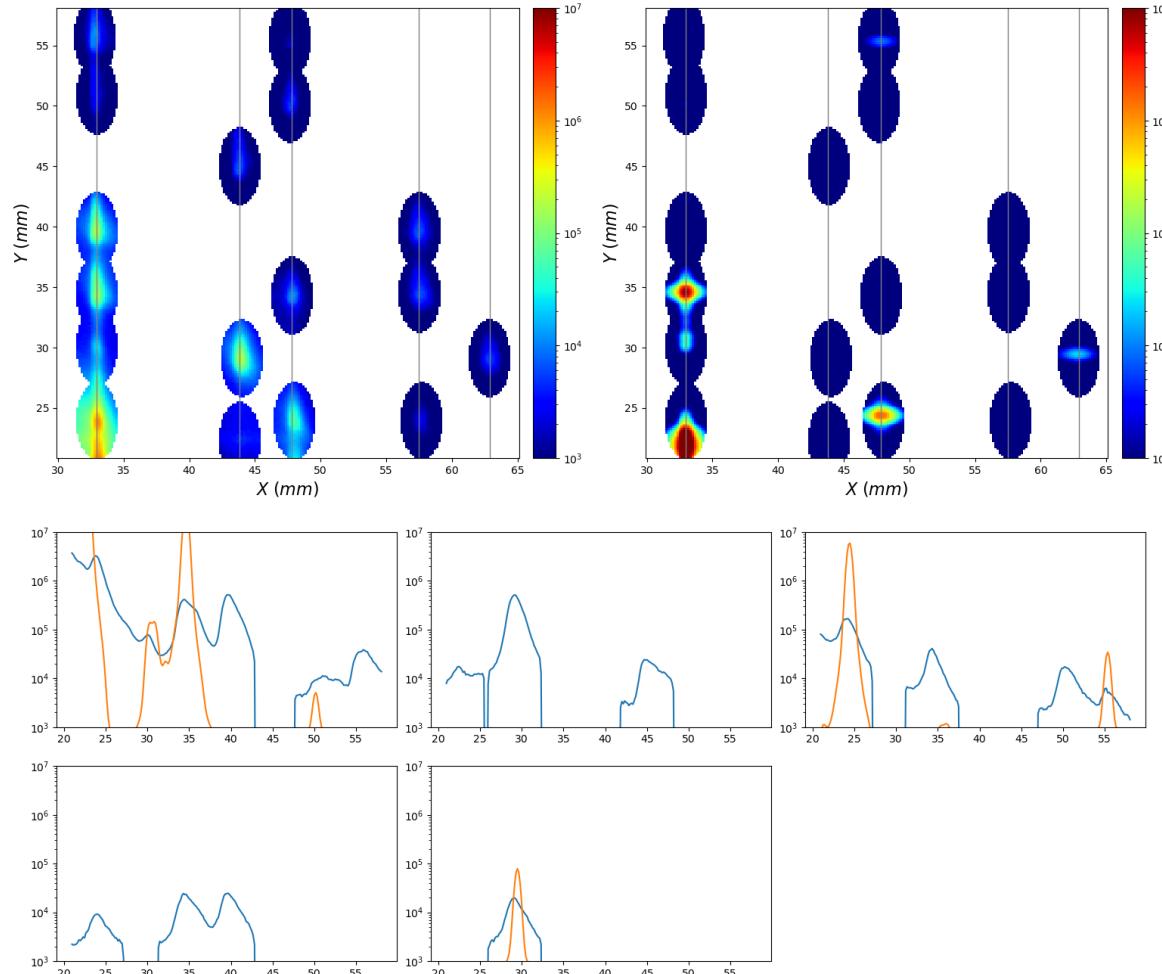
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.15384615384615397
}
```



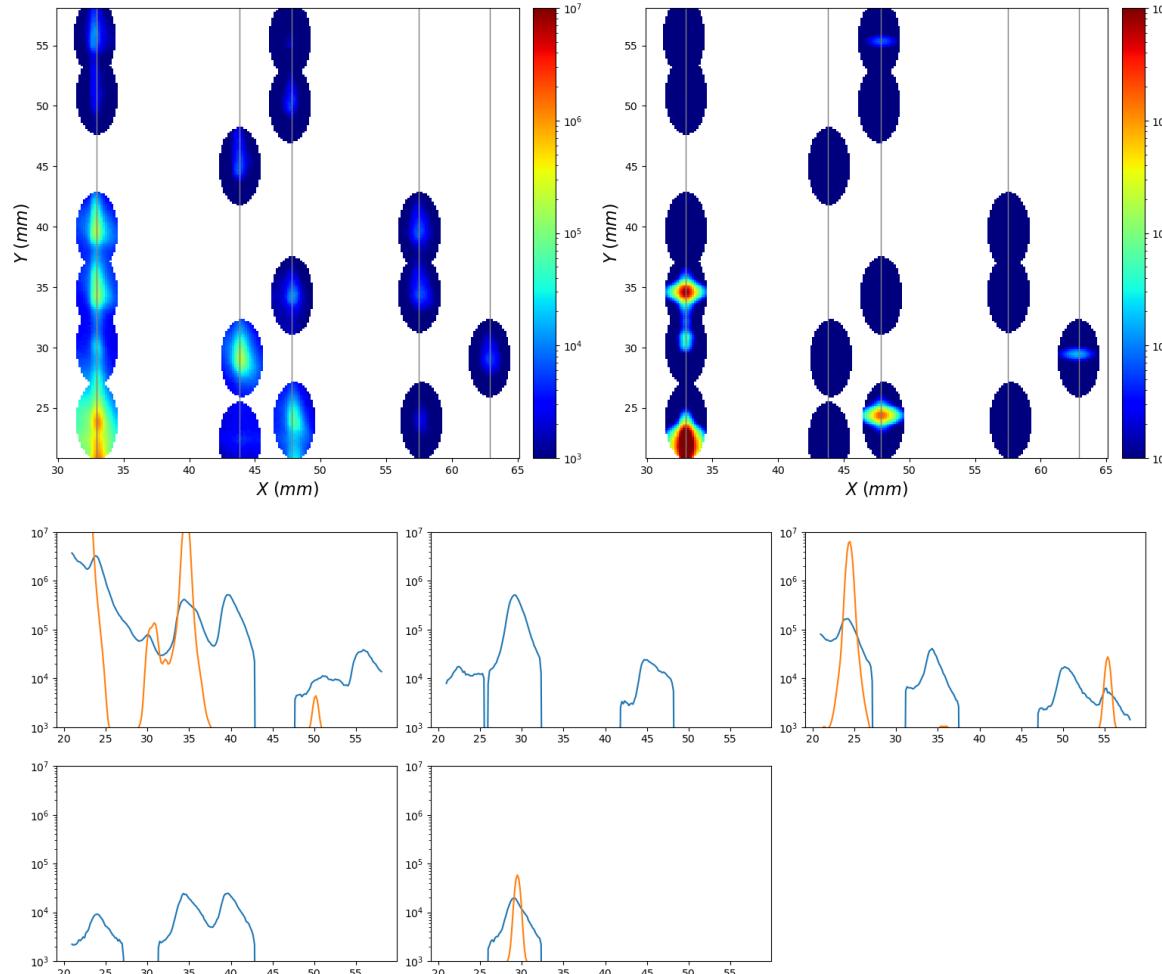
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.05128205128205132
}
```



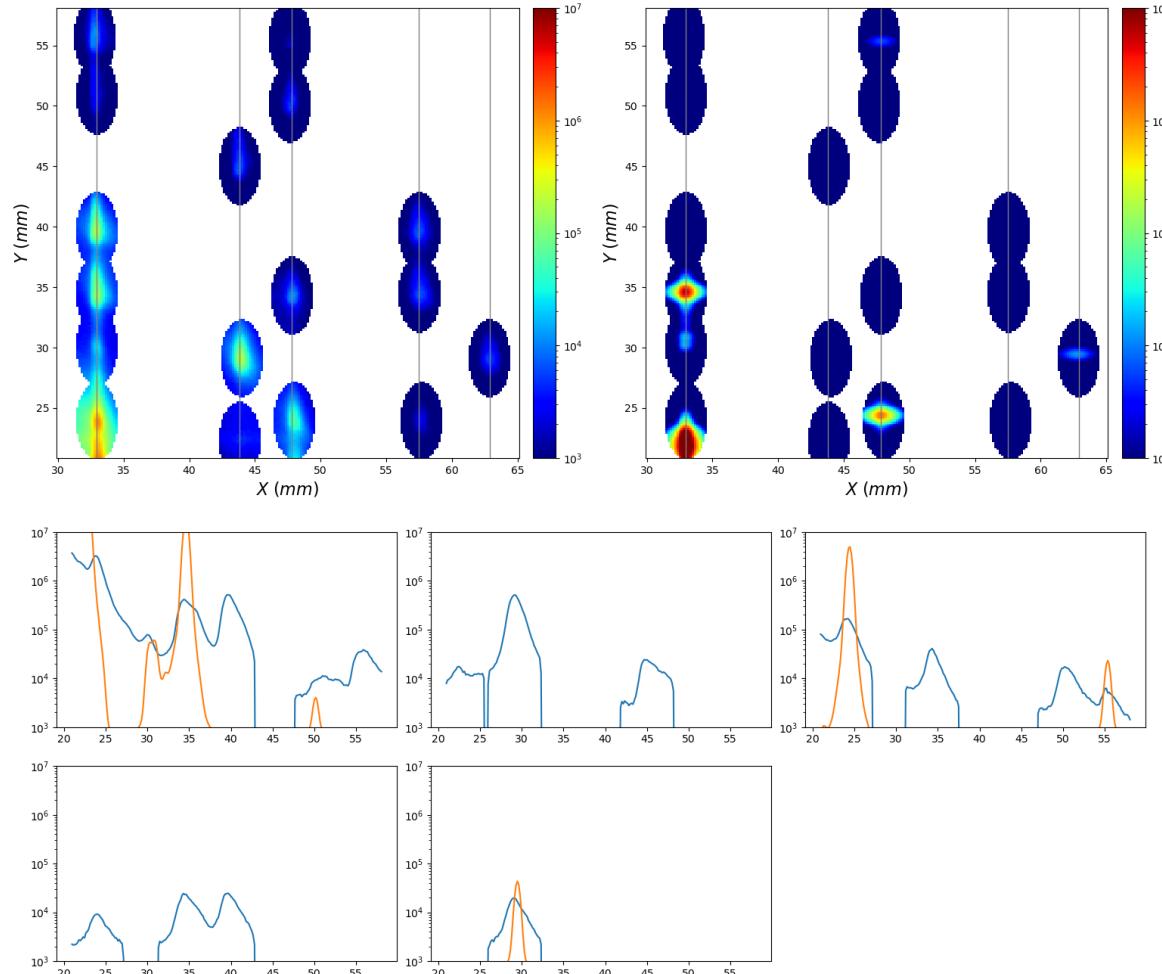
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.0512820512820511
}
```



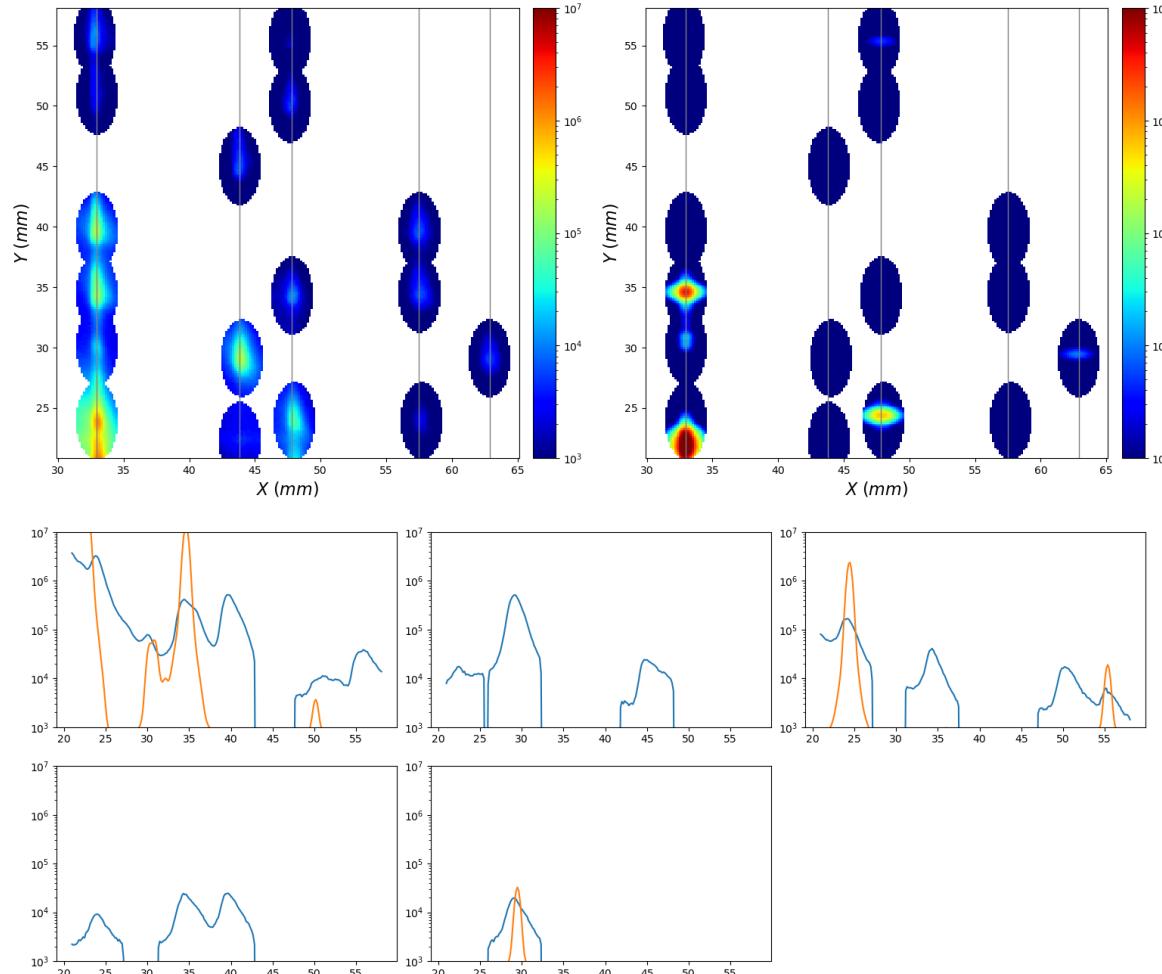
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.15384615384615374
}
```



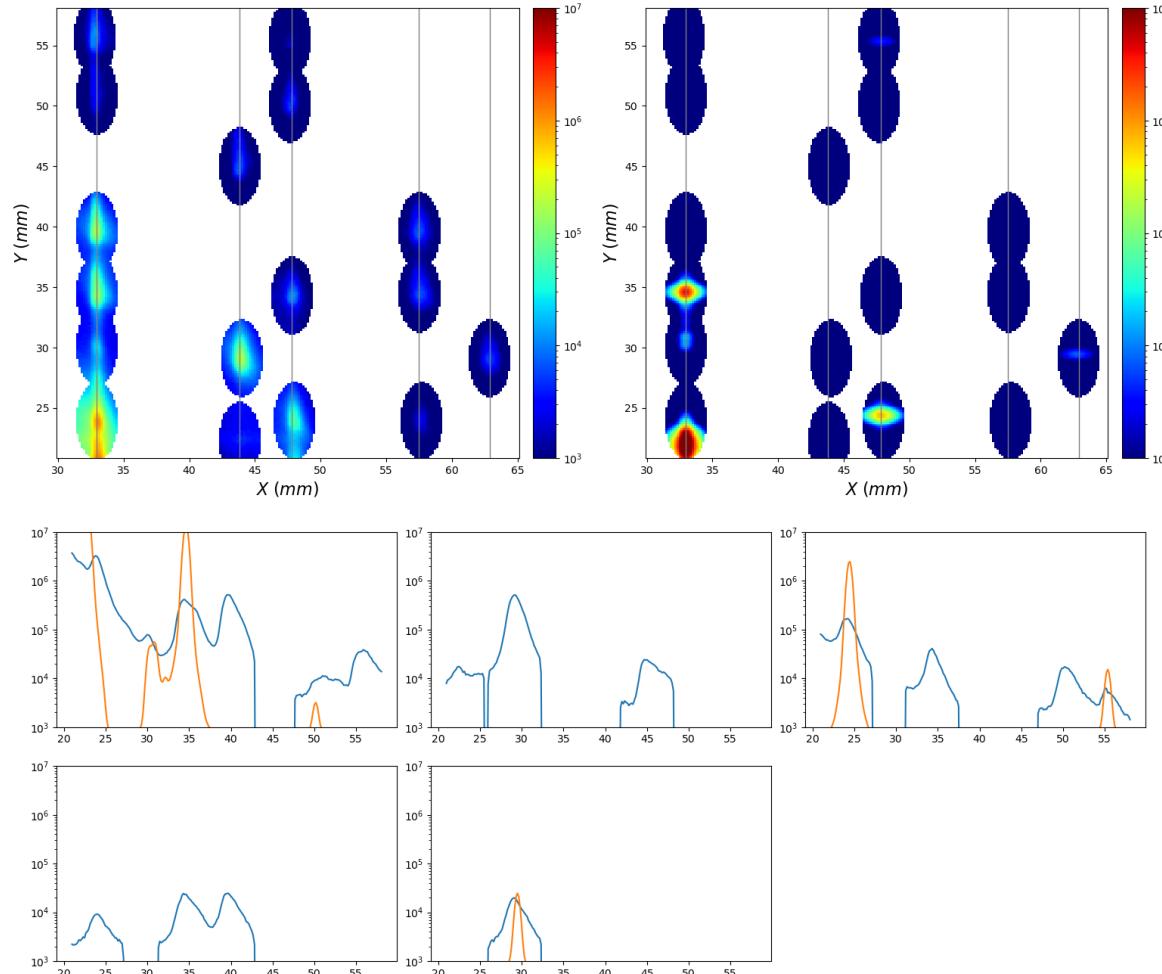
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.2564102564102564
}
```



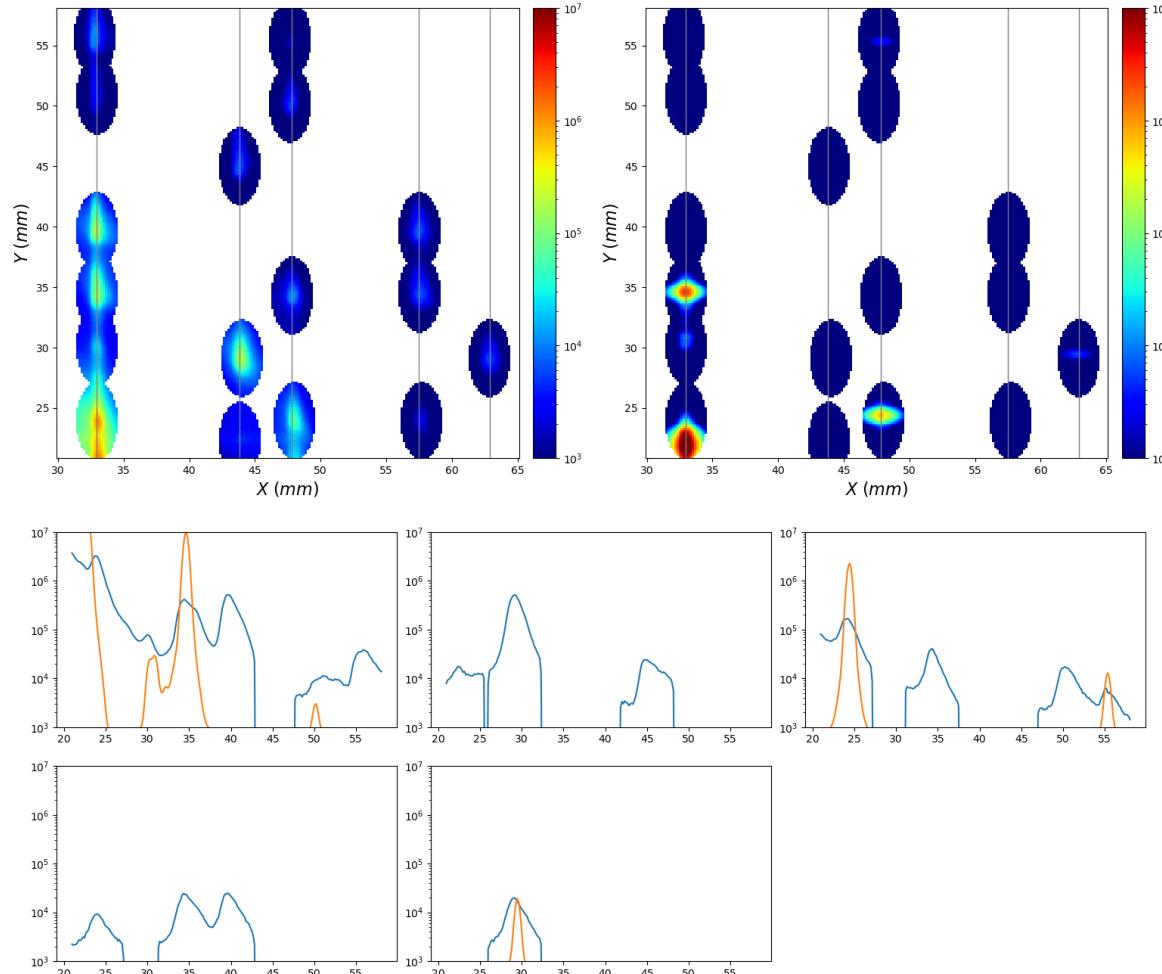
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.35897435897435903
}
```



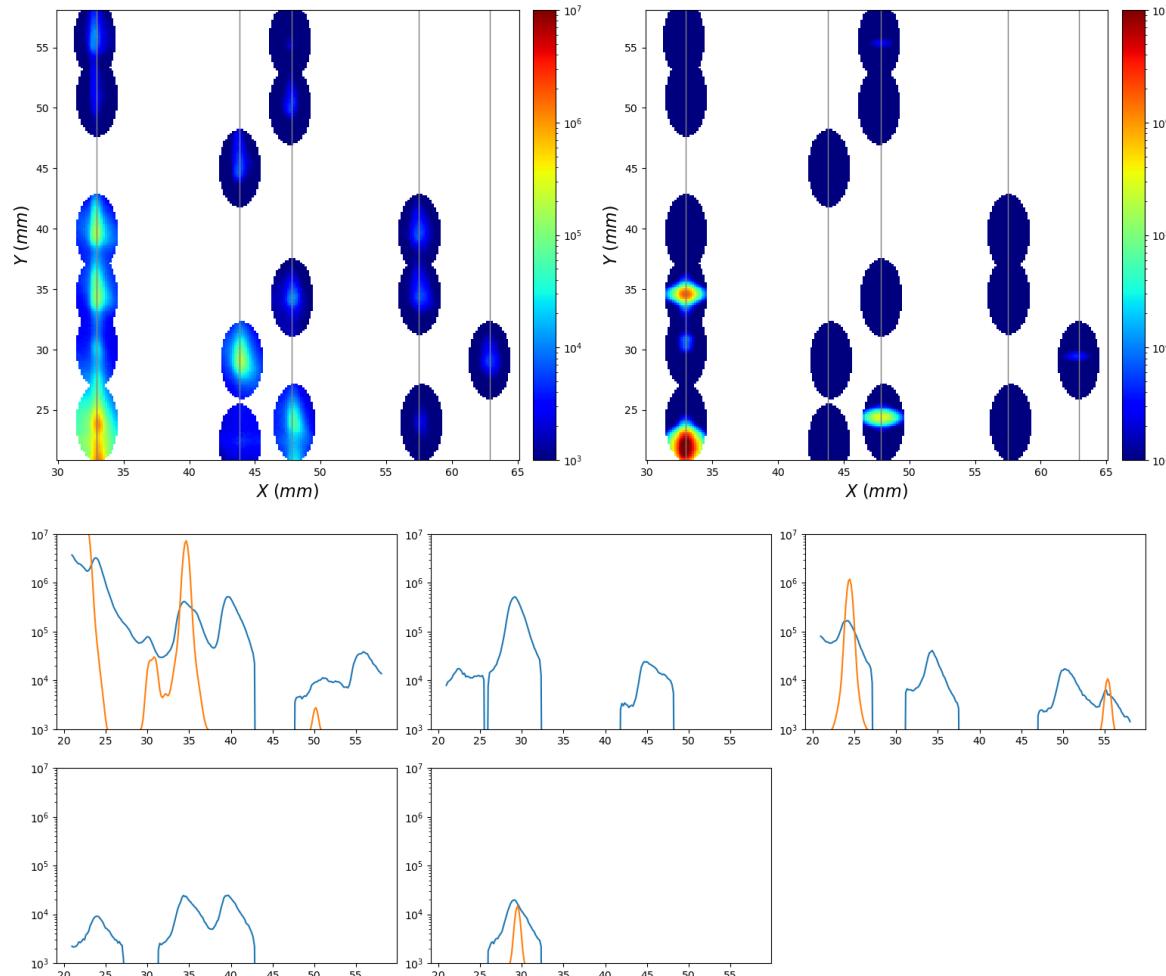
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.4615384615384617
}
```



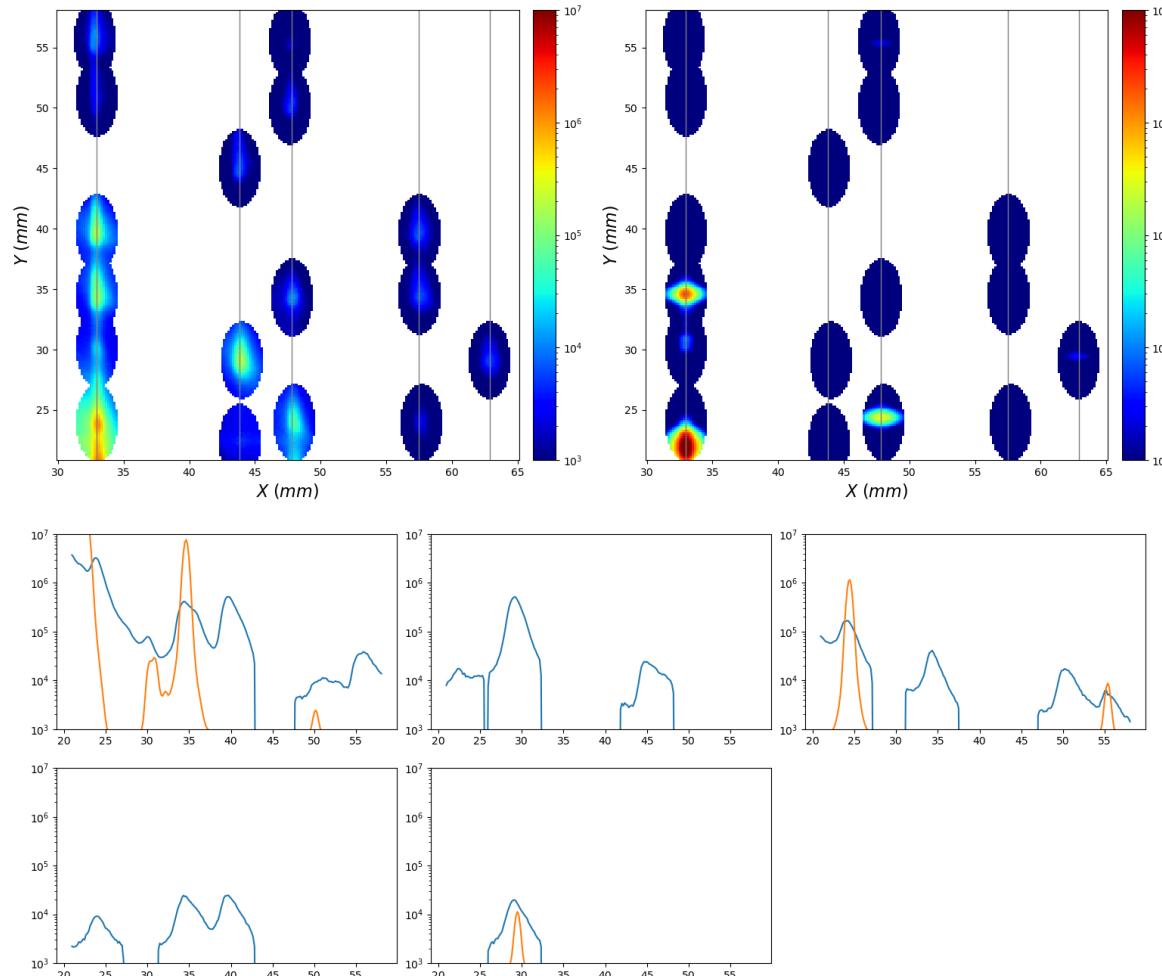
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.5641025641025639
}
```



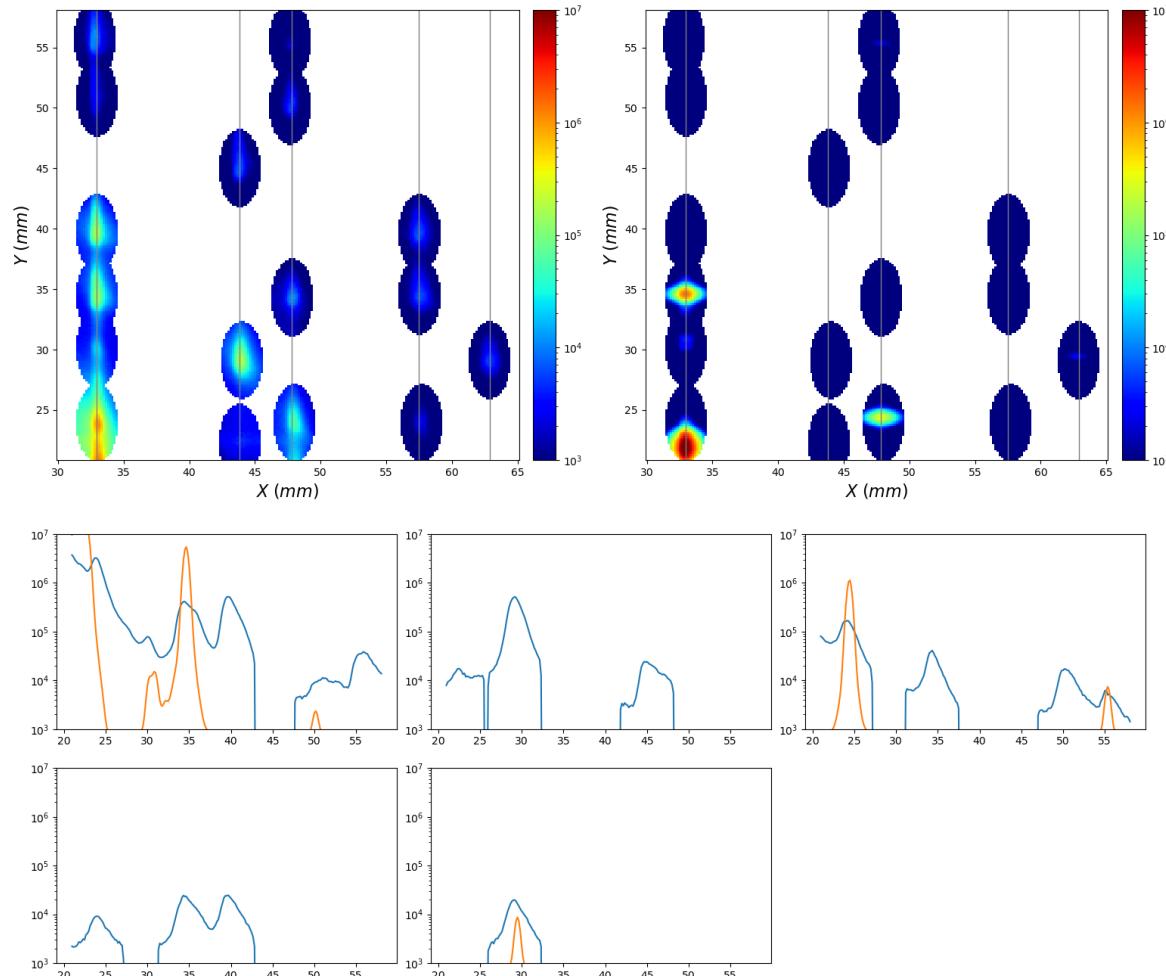
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.6666666666666665
}
```



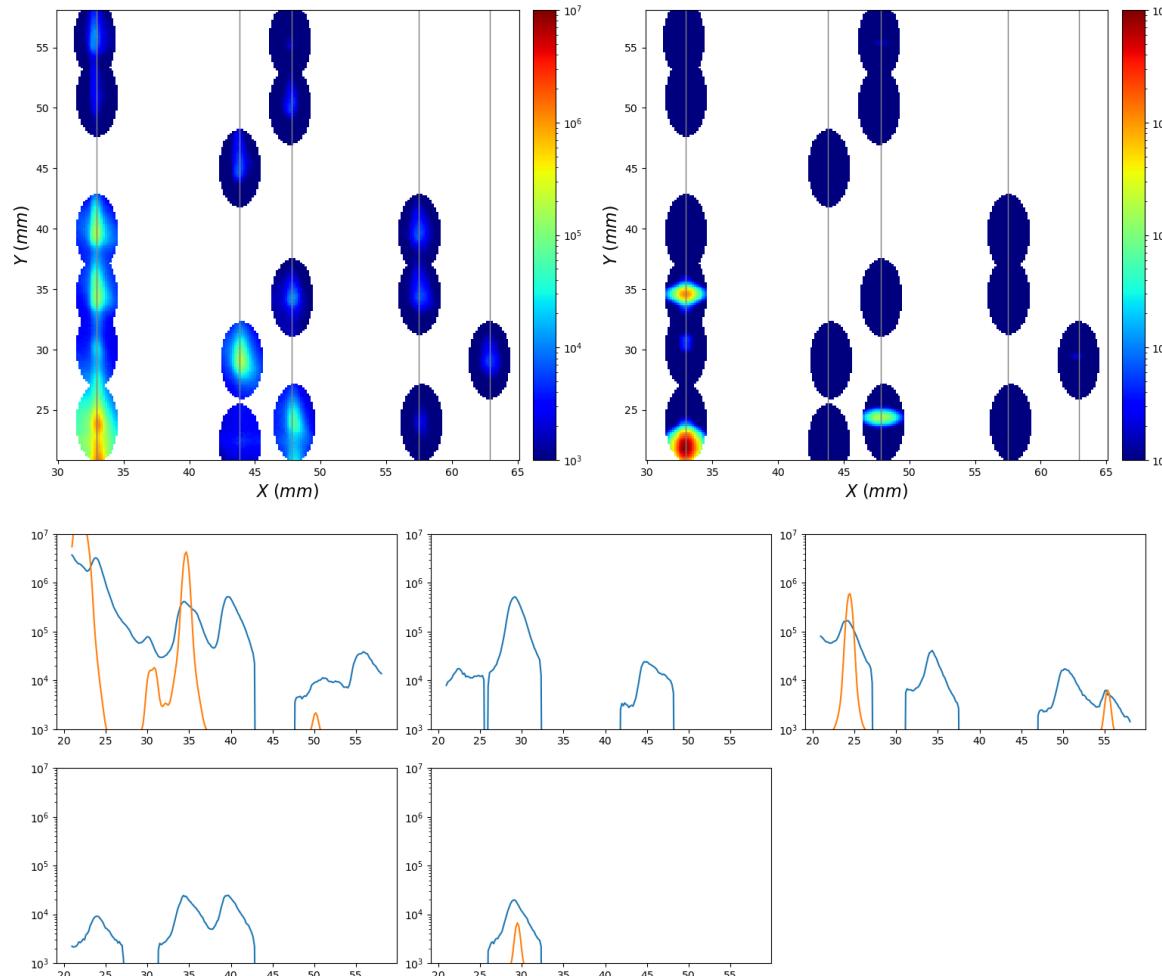
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.7692307692307692
}
```



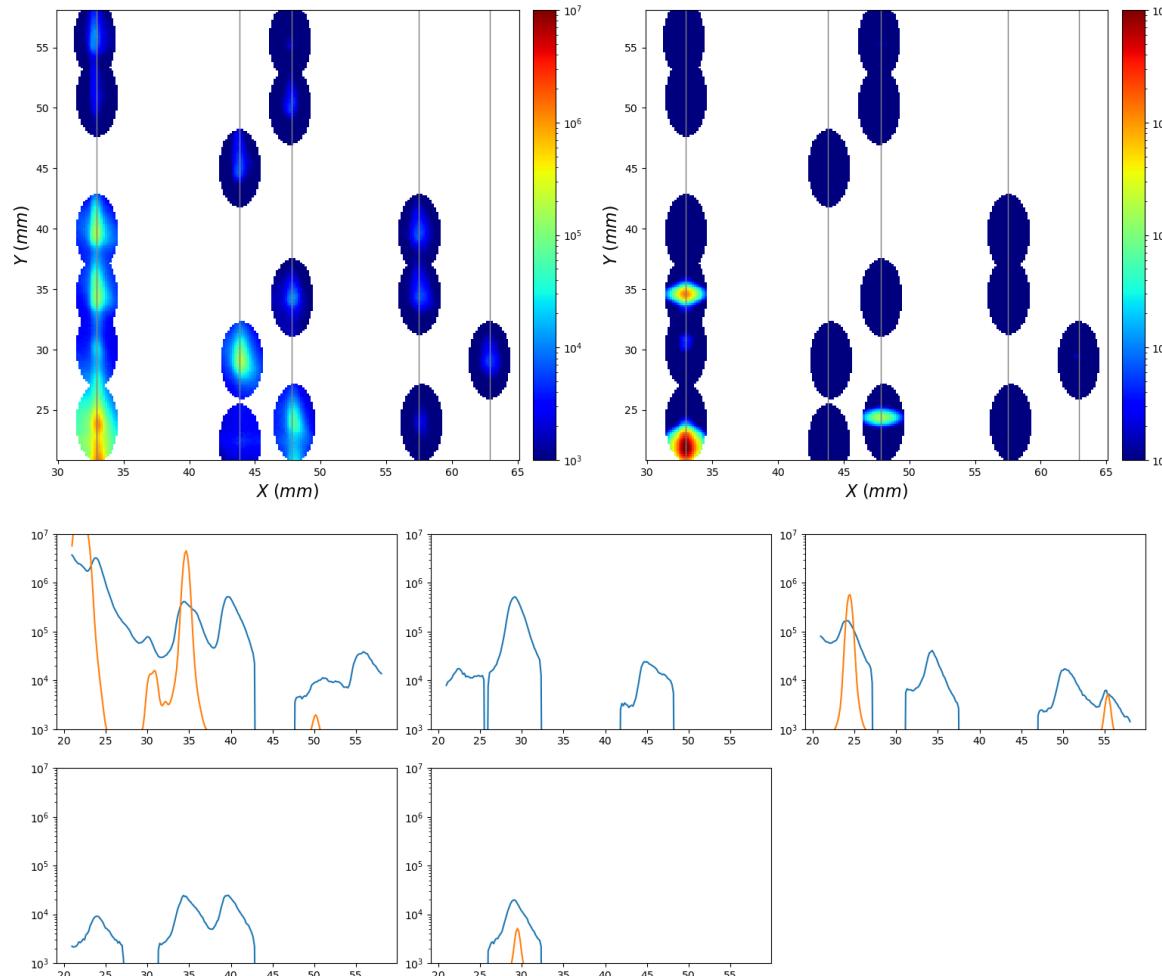
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.8717948717948718
}
```



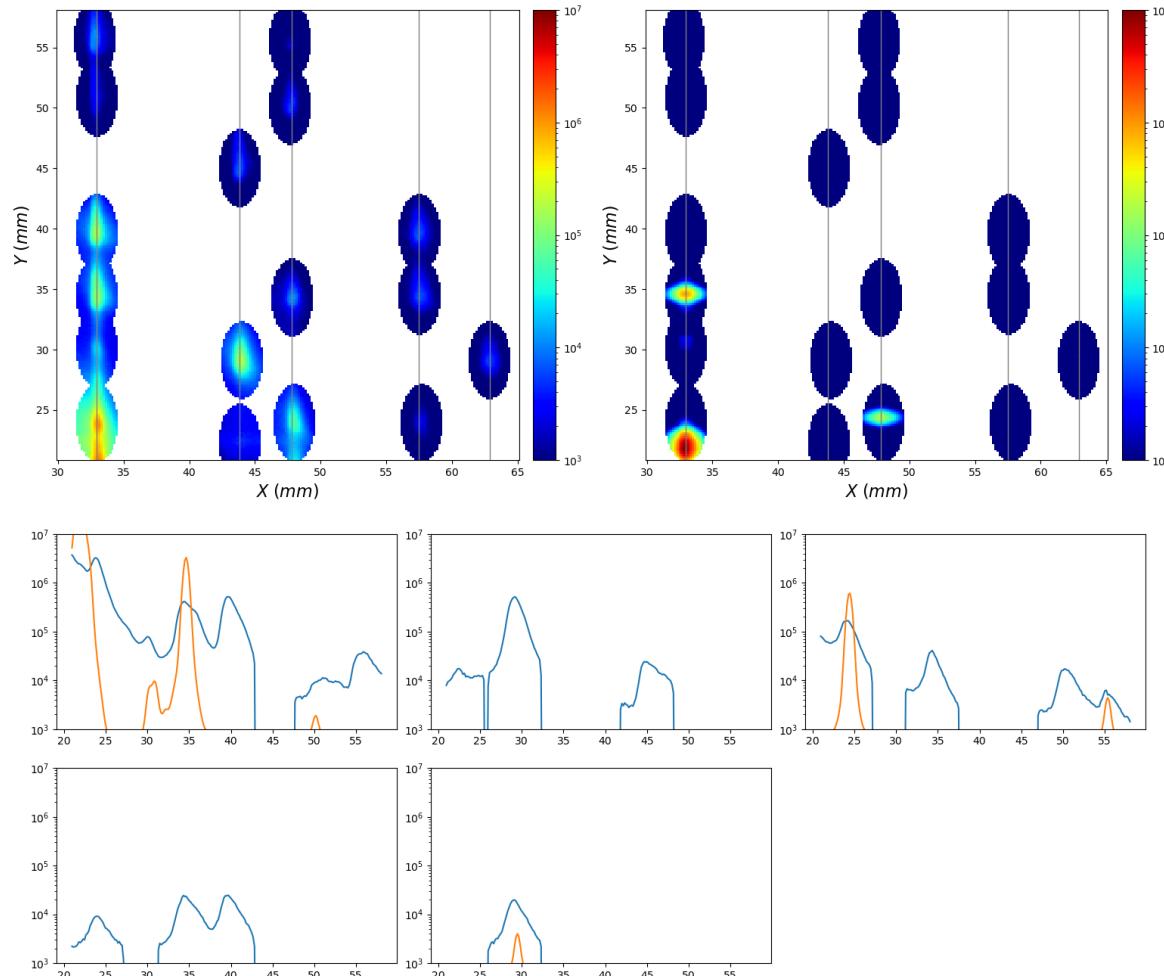
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.9743589743589745
}
```



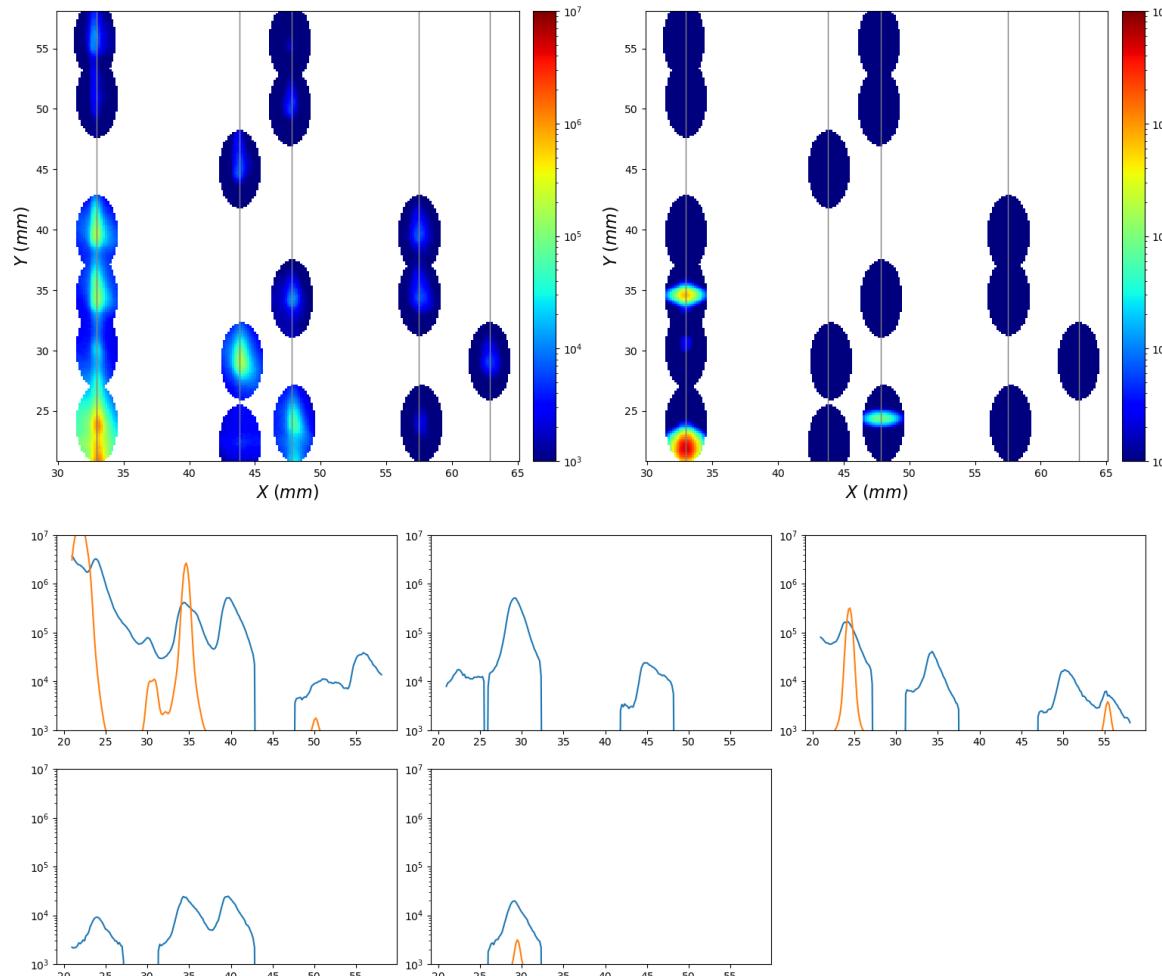
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.0769230769230766
}
```



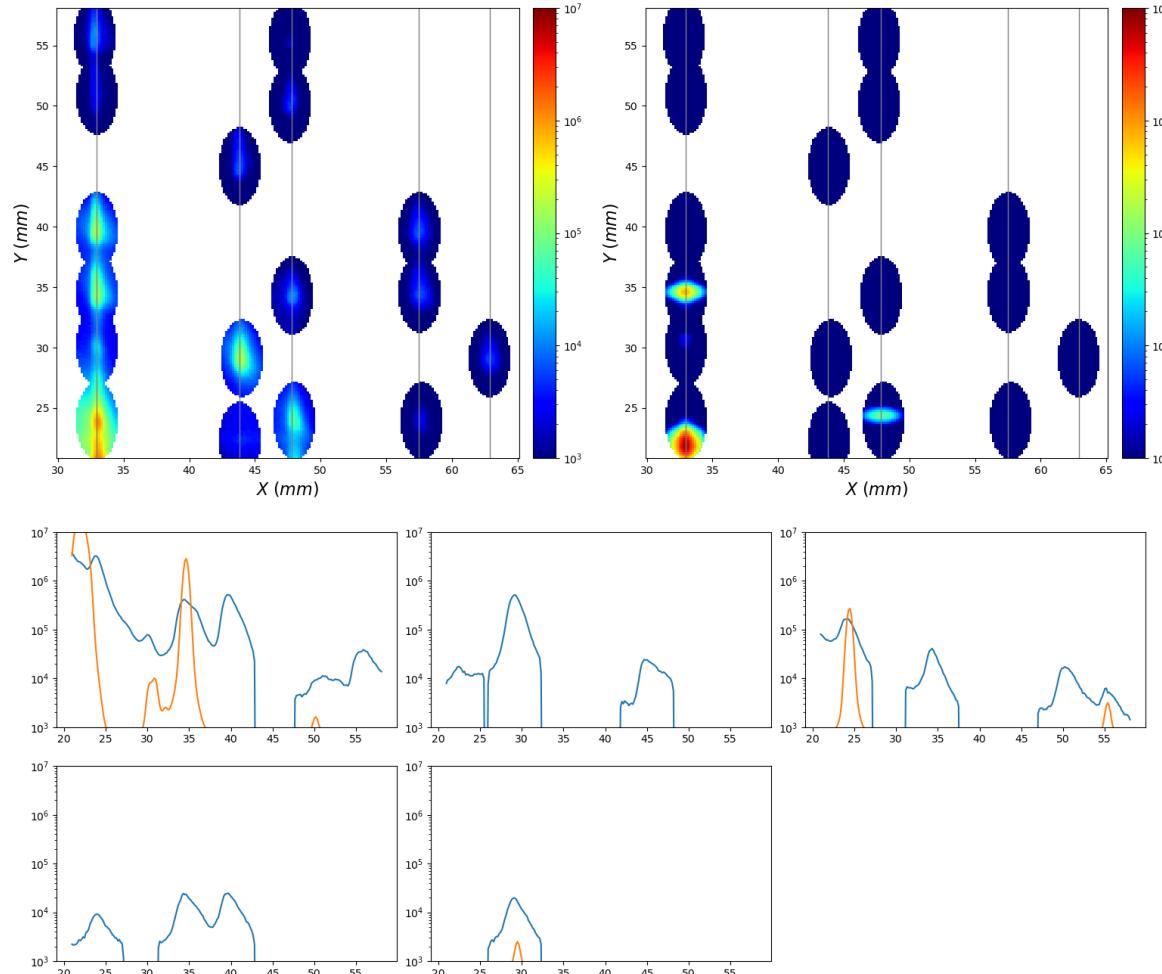
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.1794871794871793
}
```



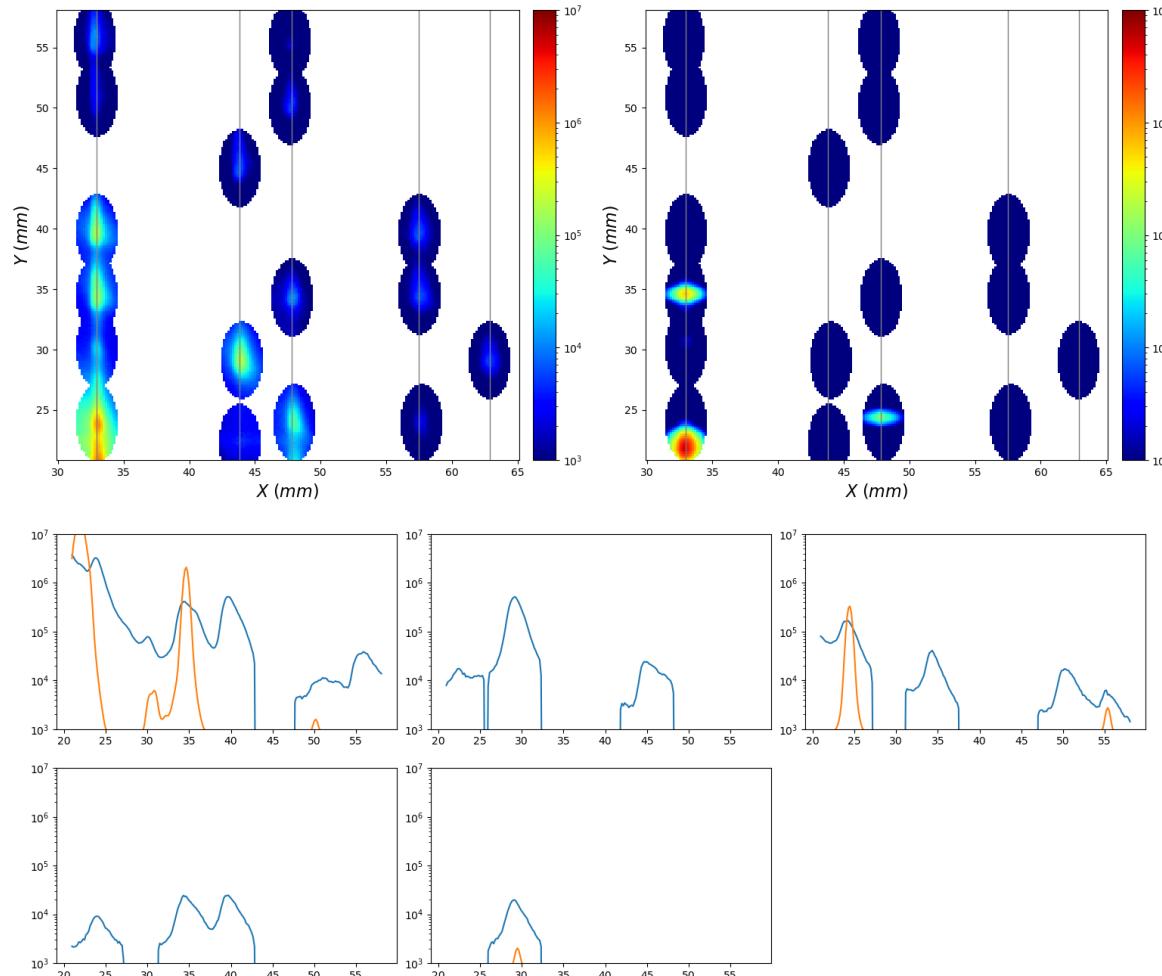
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.282051282051282
}
```



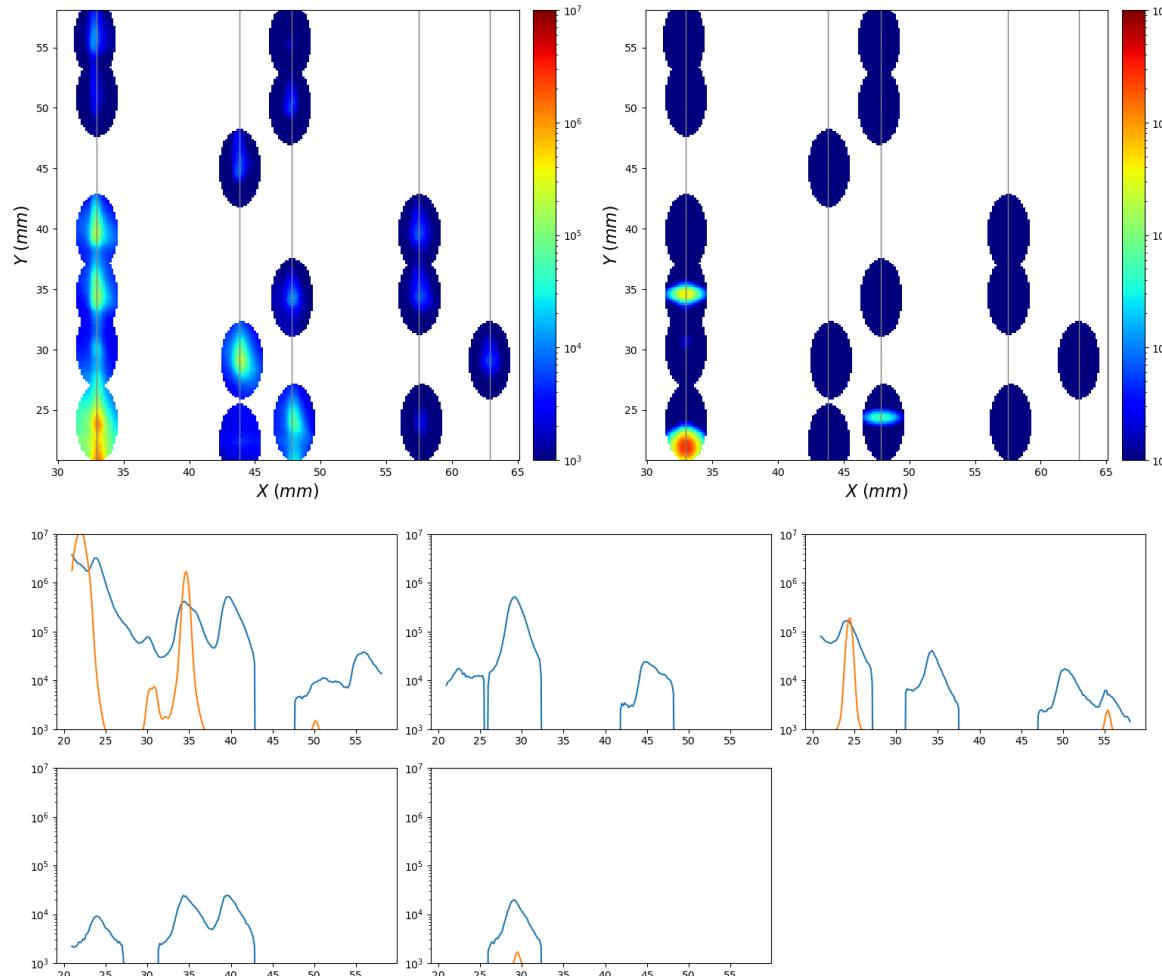
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.3846153846153846
}
```



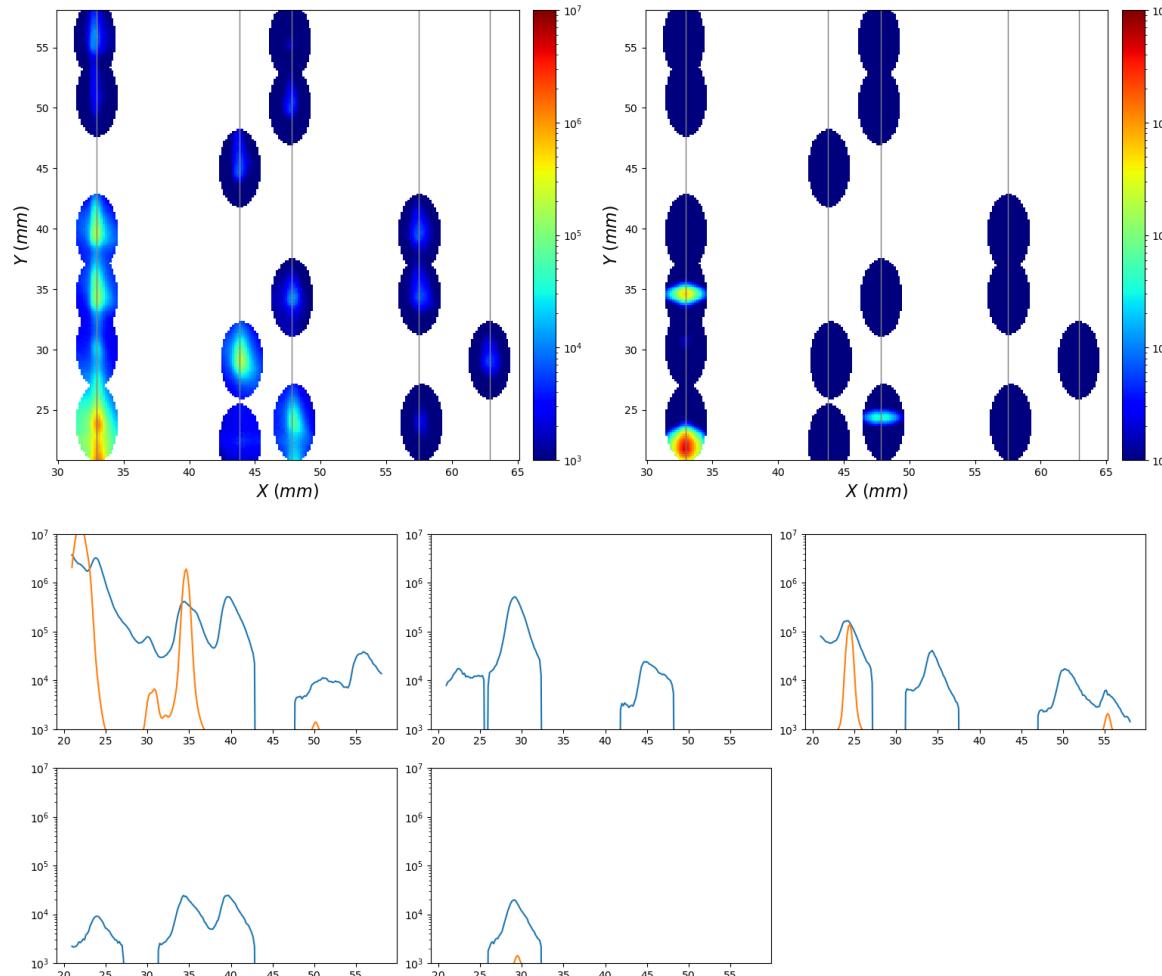
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.4871794871794872
}
```



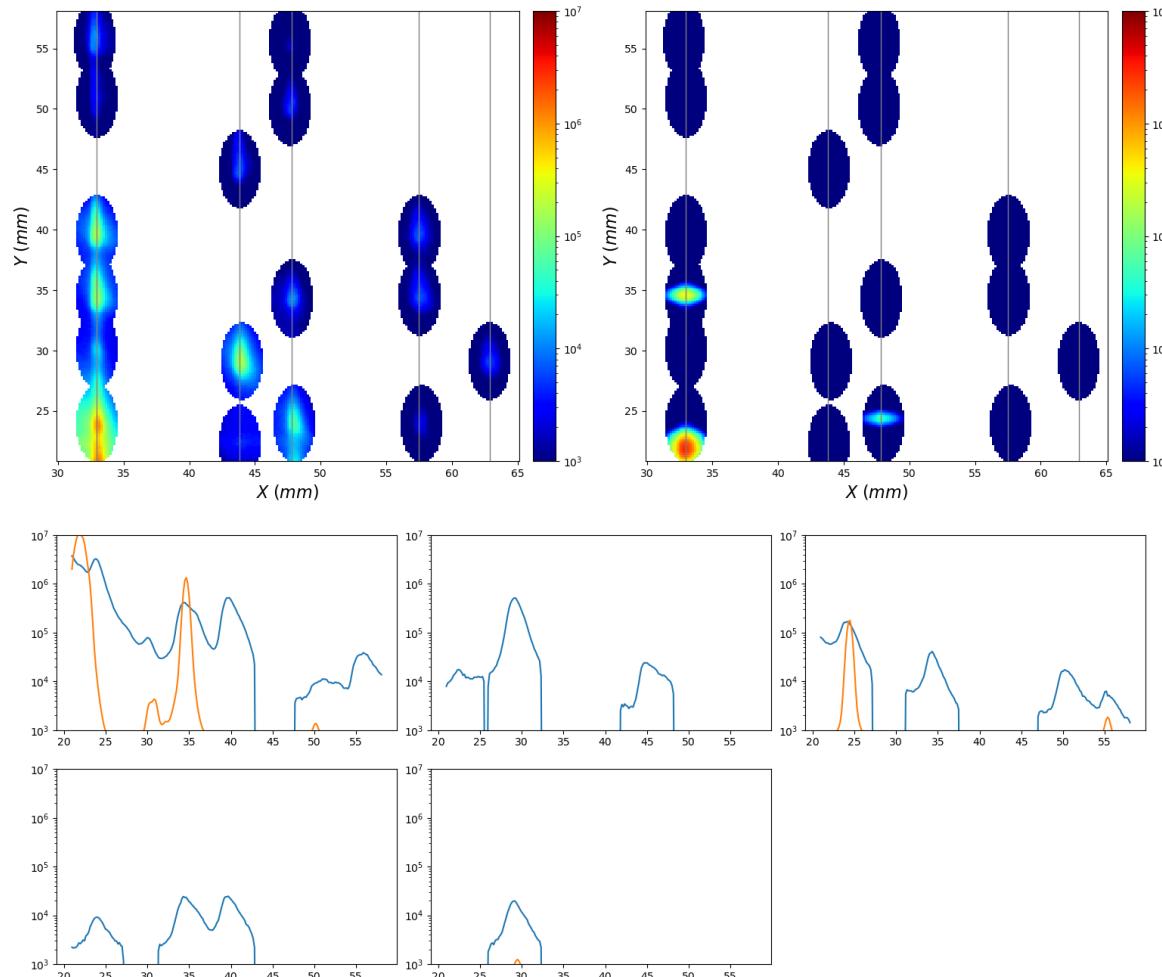
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.5897435897435894
}
```



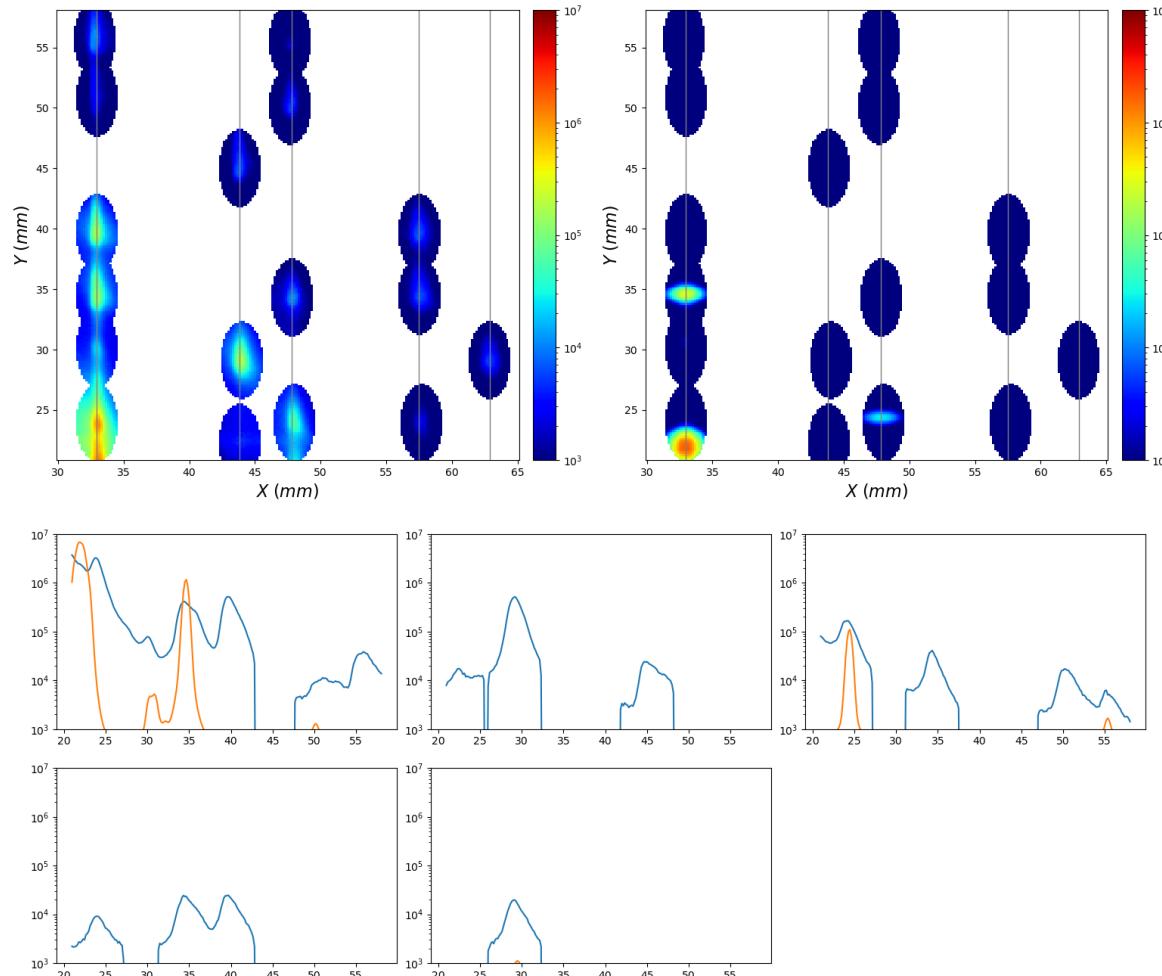
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.692307692307692
}
```



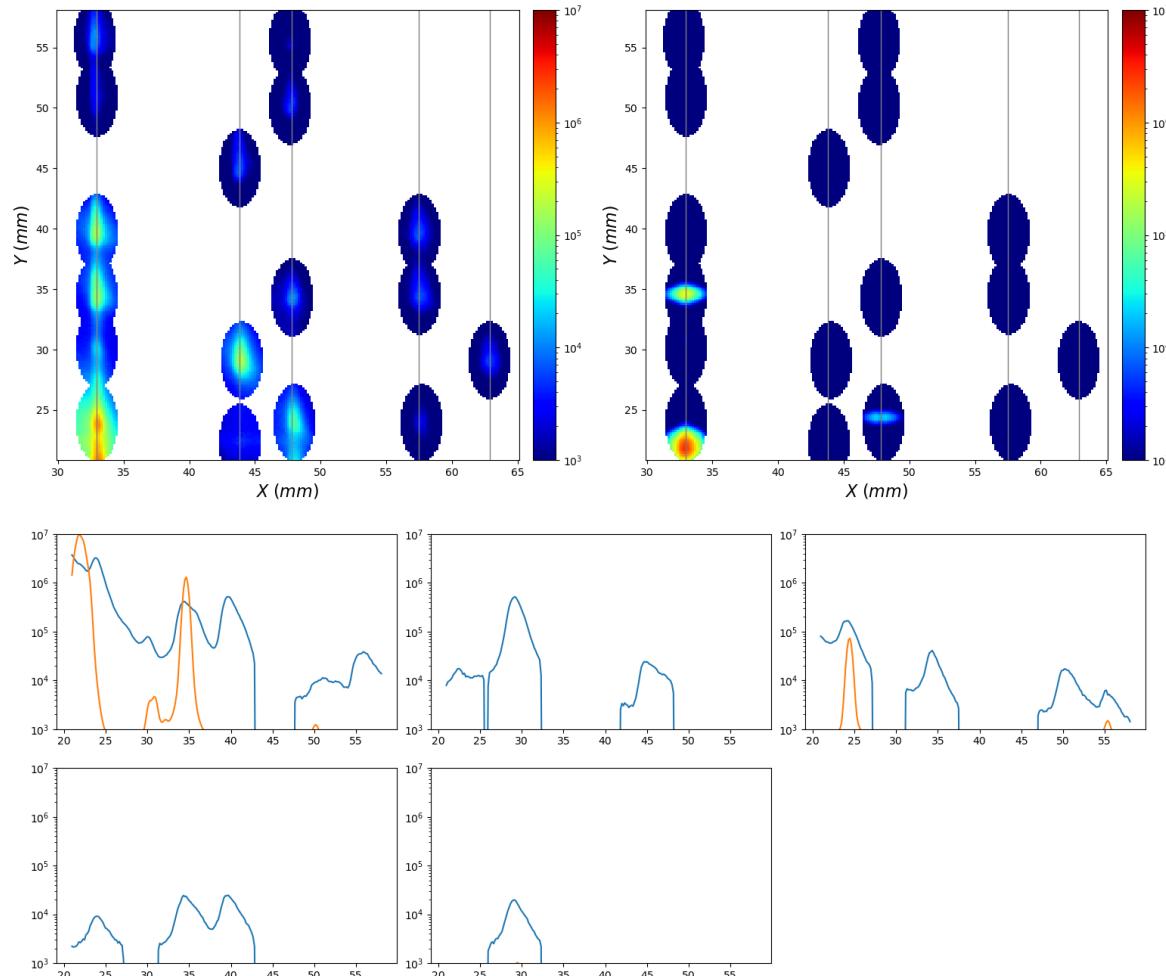
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.7948717948717947
}
```



Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.8974358974358974
}
```



Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 2.0
}
```

