

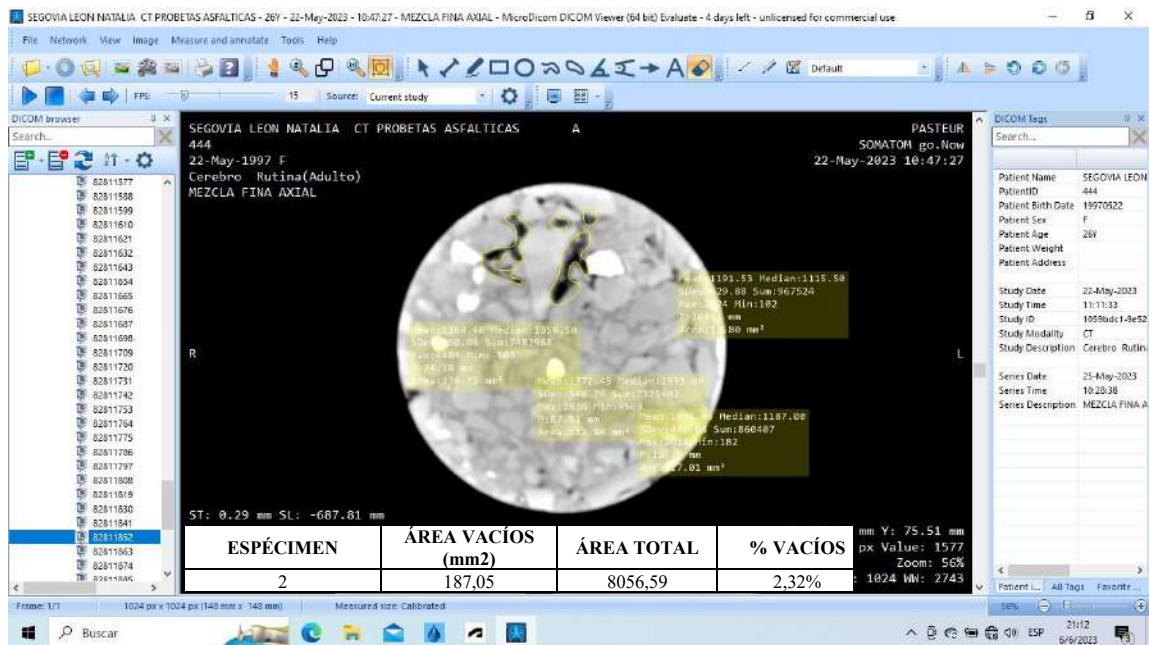
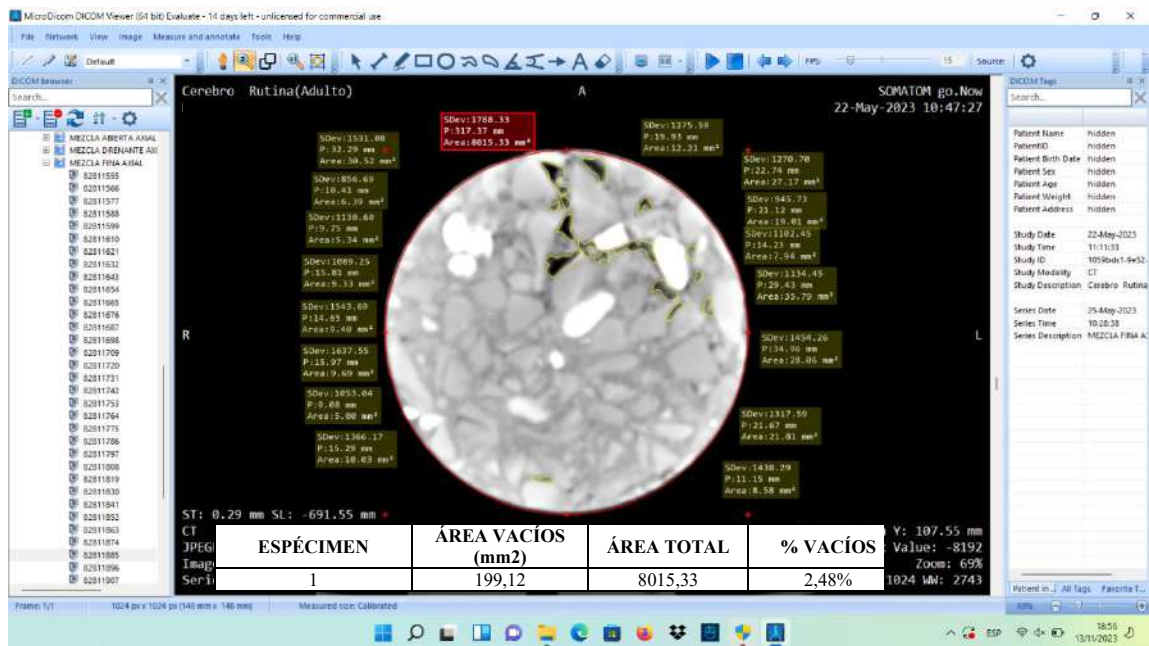
ANEXO XII

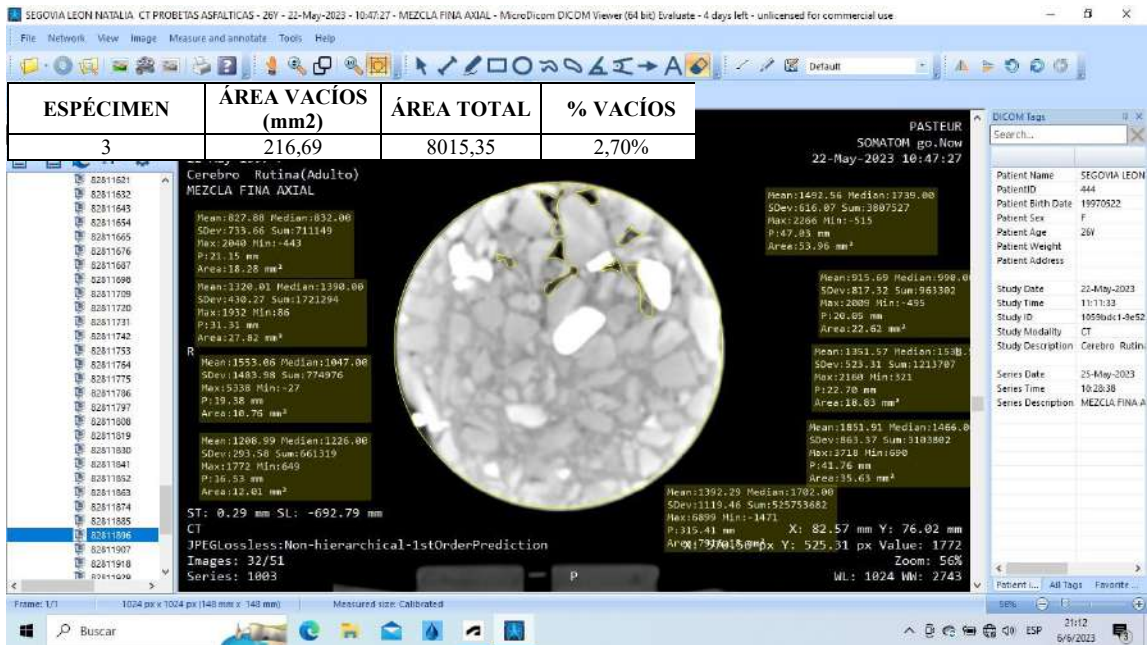
EVALUACIÓN DE IMÁGENES MEDIANTE

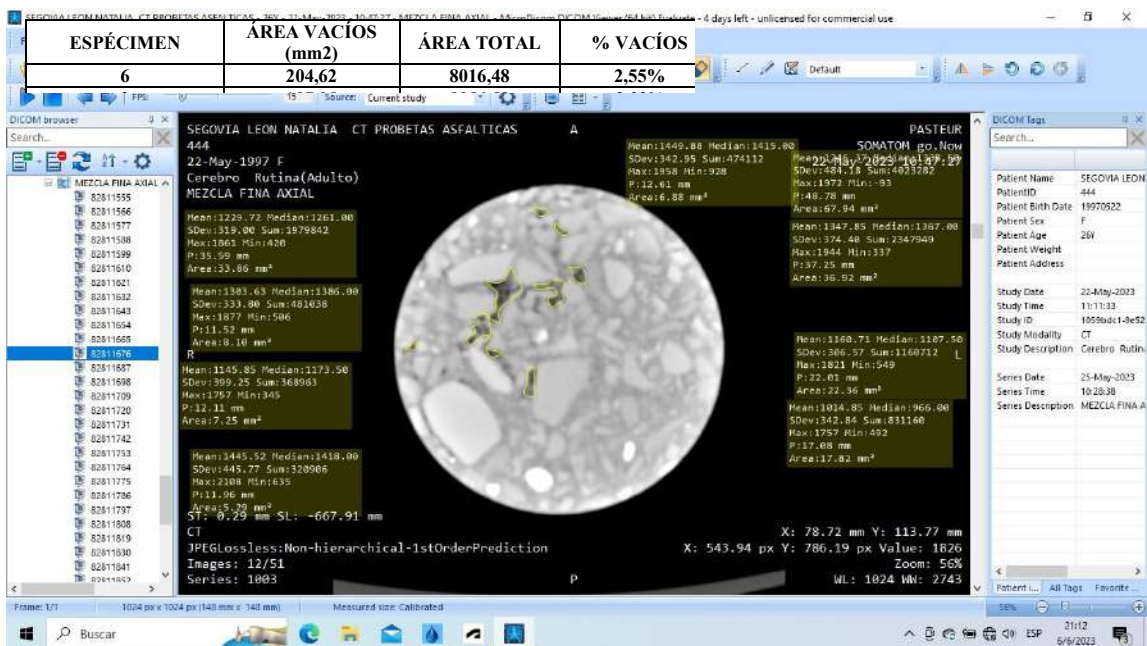
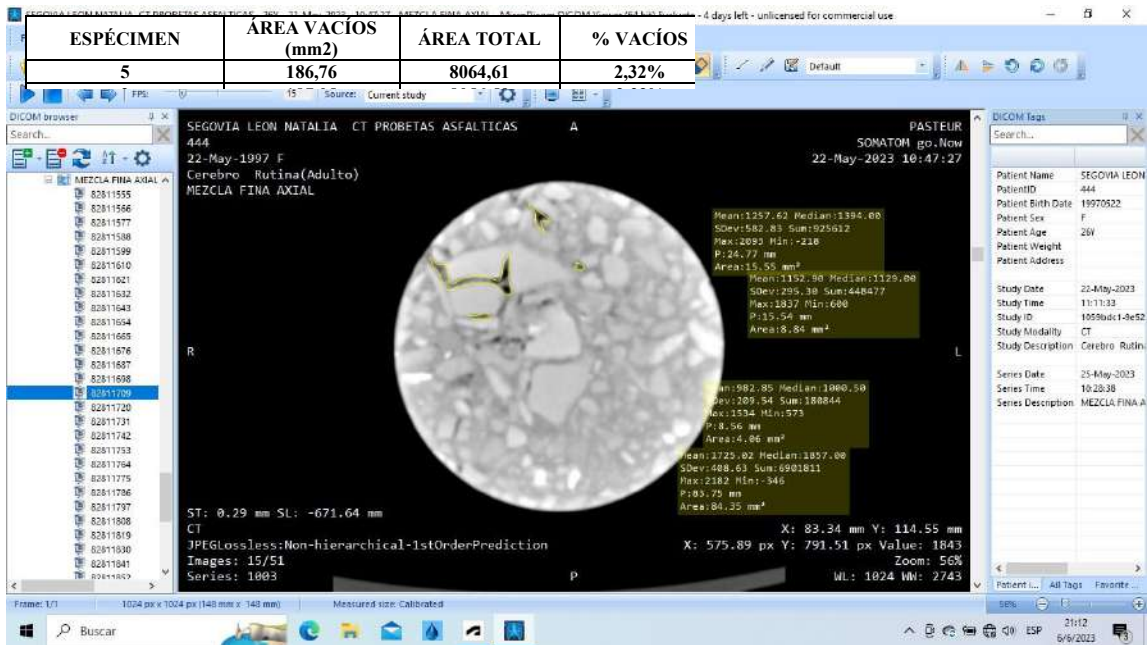
TOMOGRAFÍA

PORCENTAJE DE VACÍOS EN MEZCLAS ASFÁLTICAS

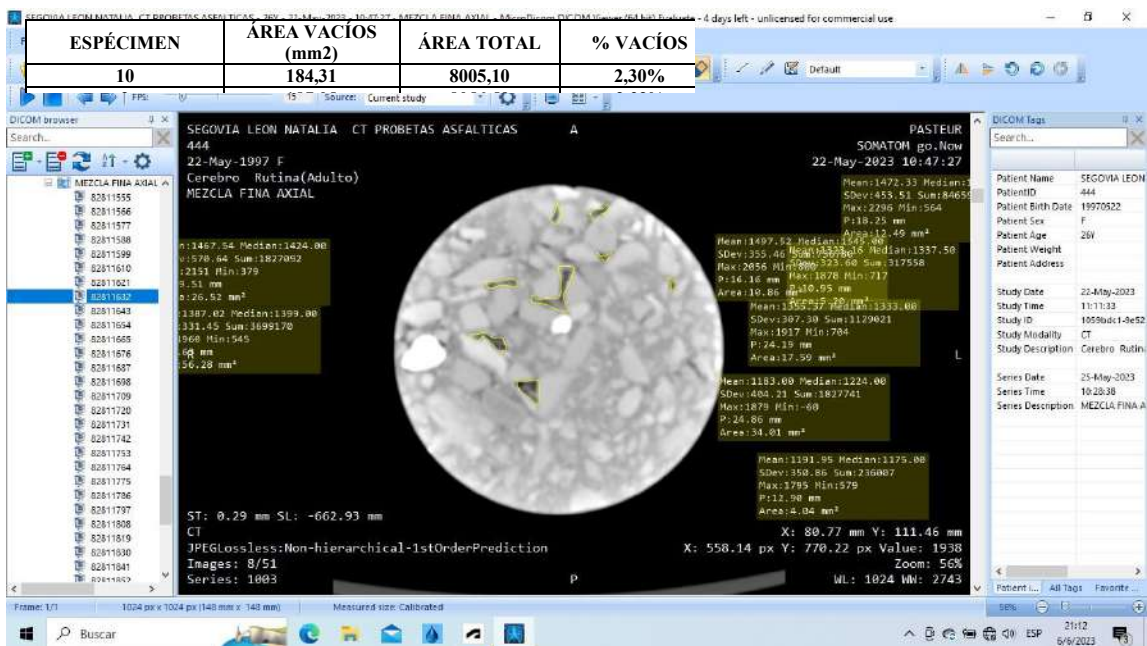
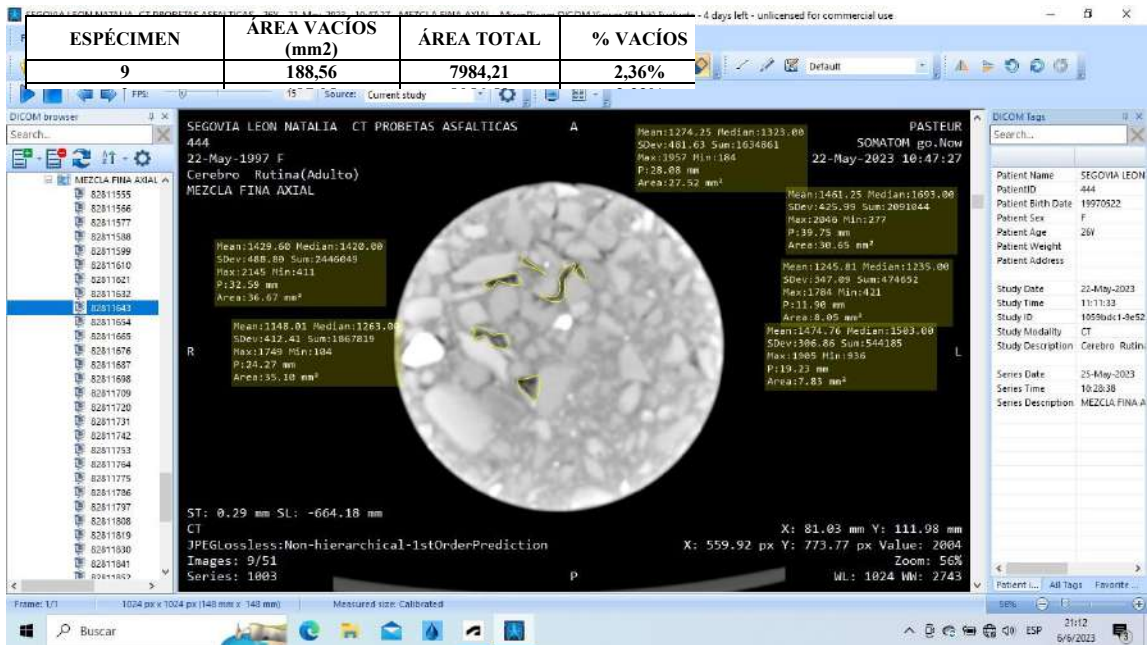
○ MEZCLAS ASFÁLTICAS FINAS

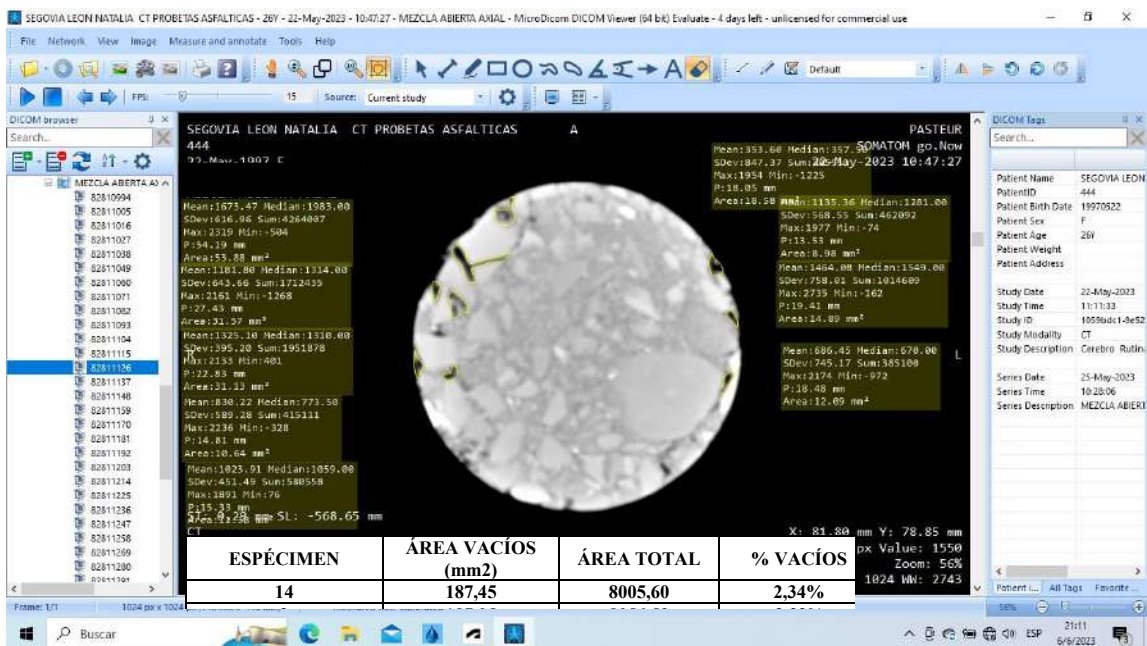


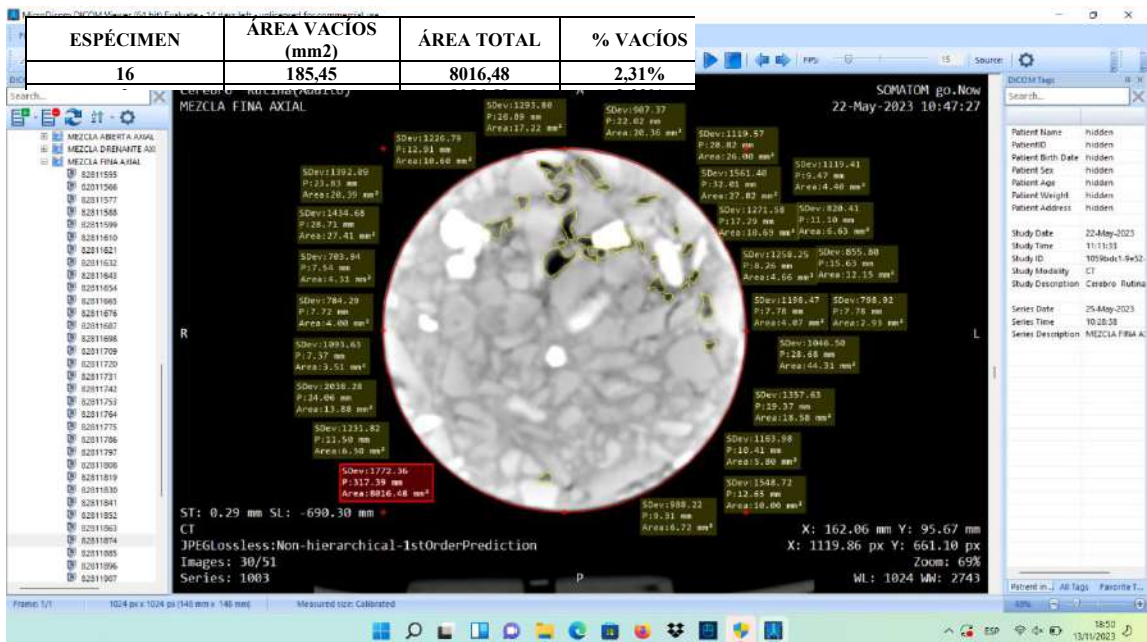
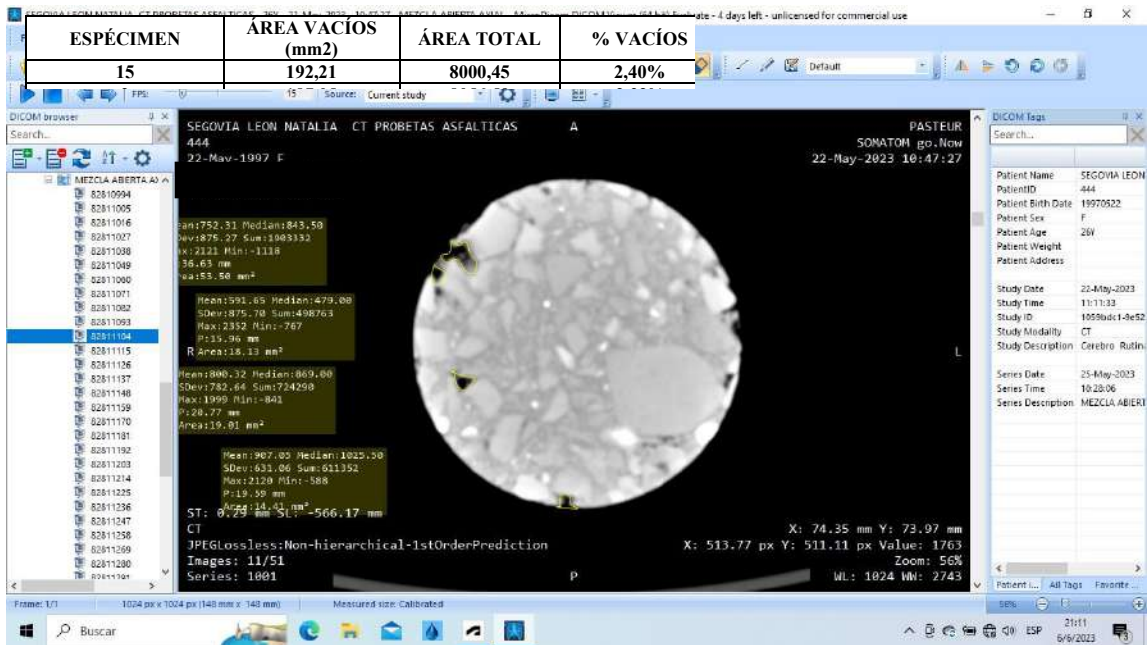


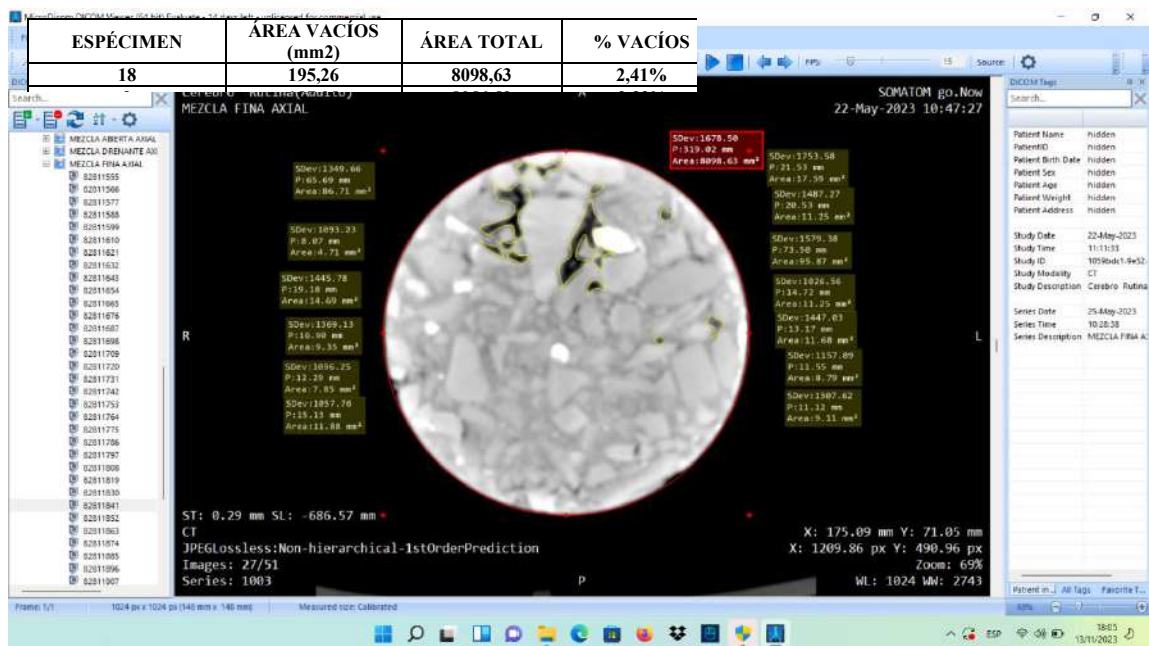
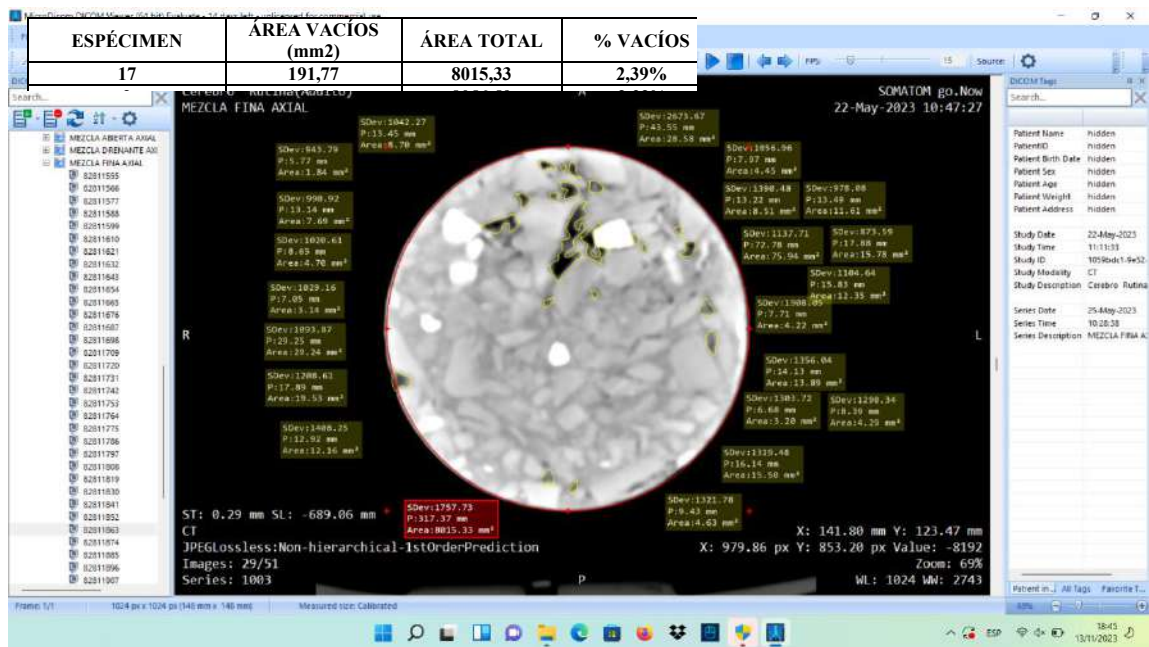


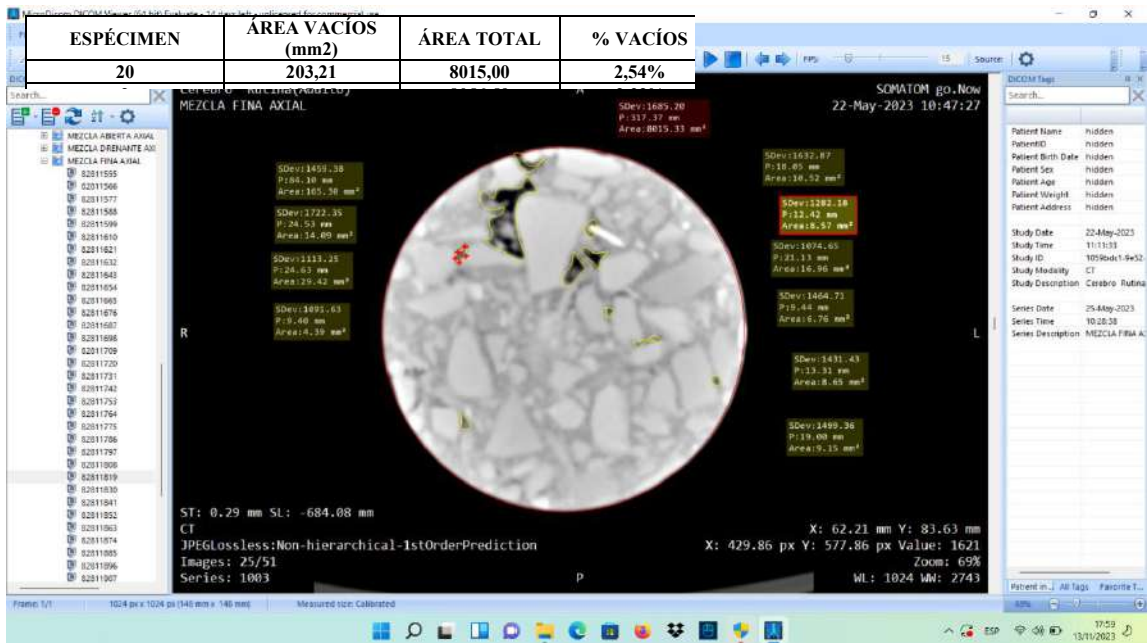
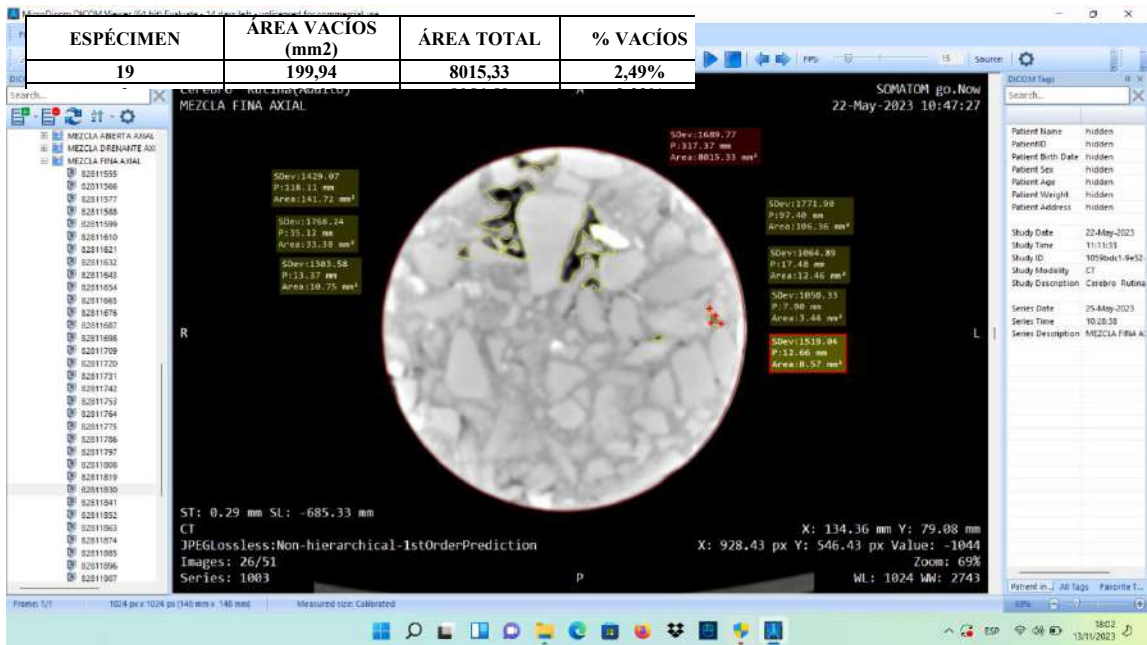
[illegible]

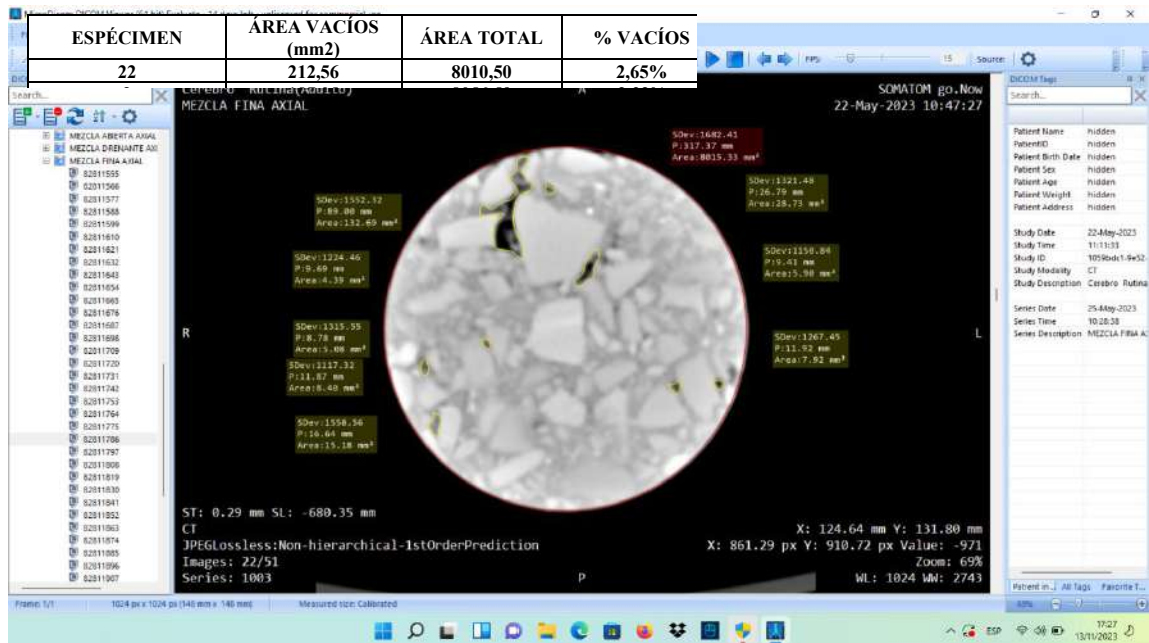
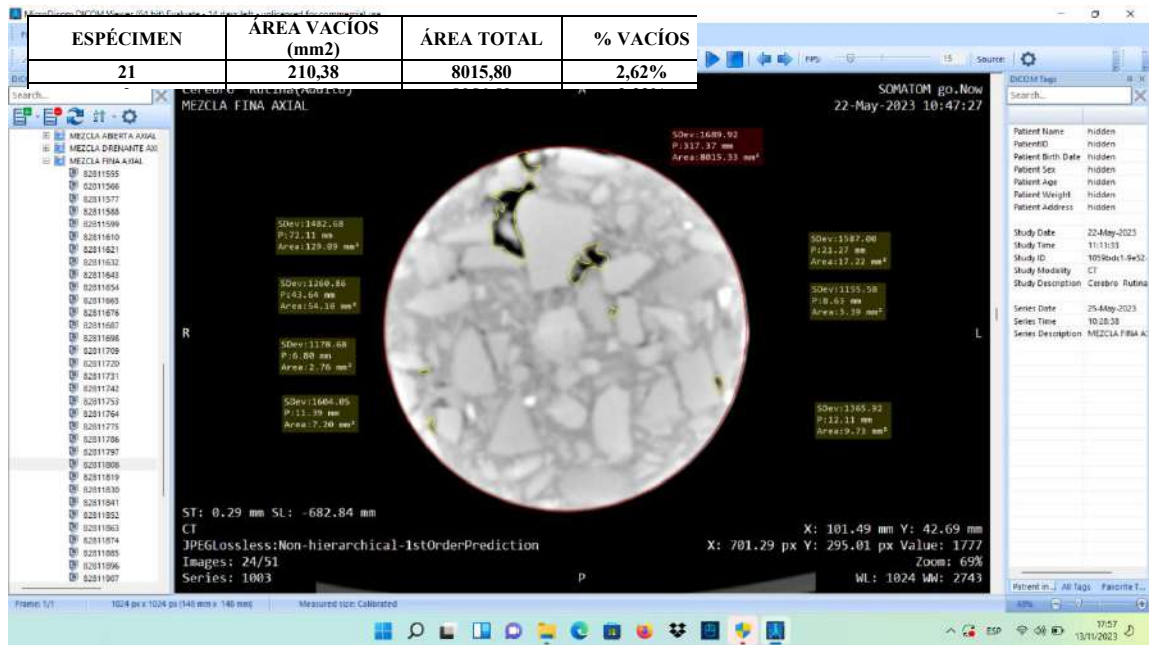


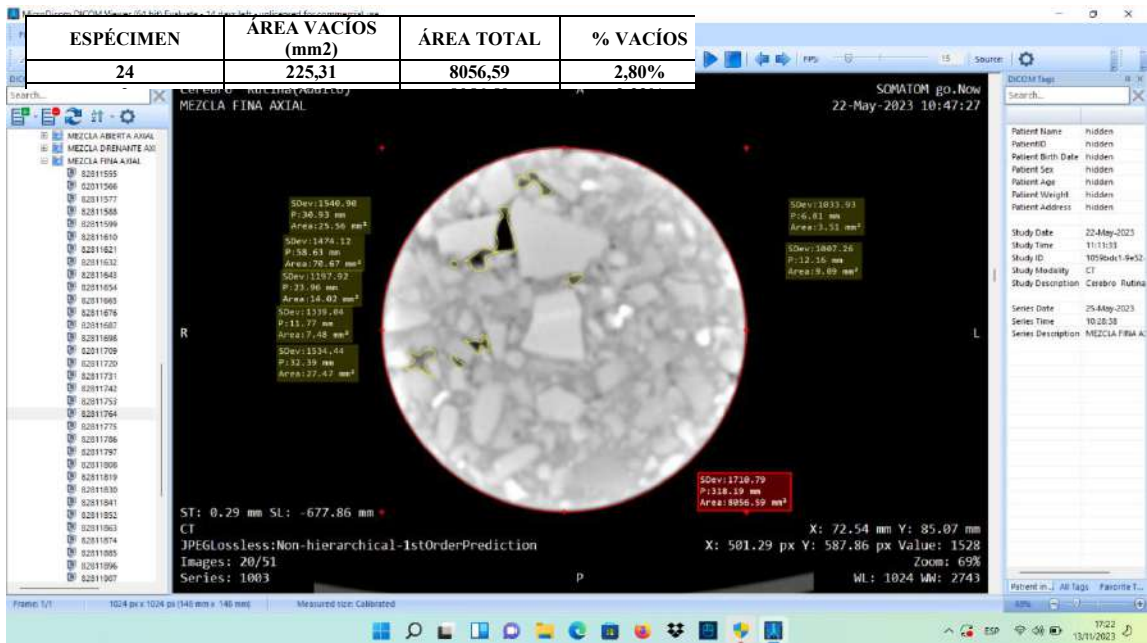
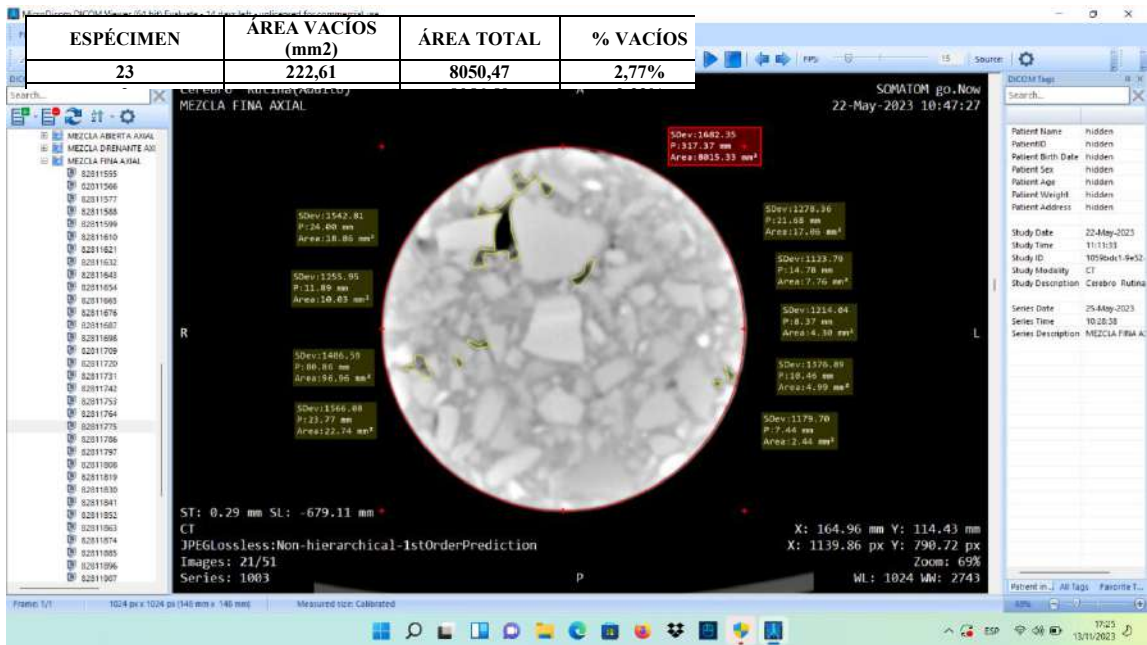


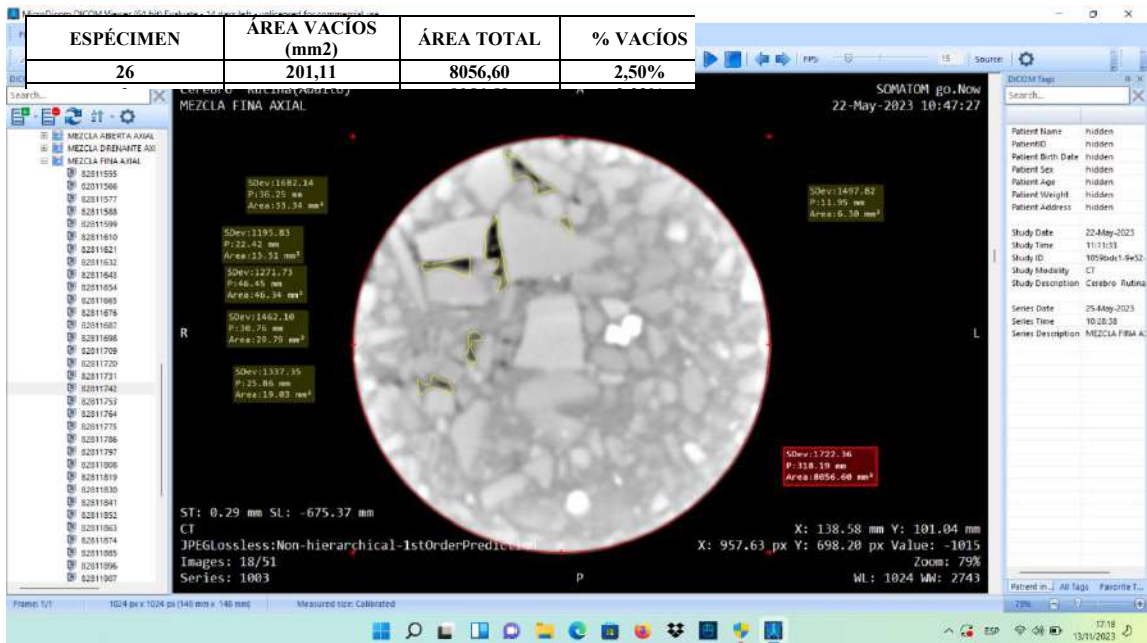
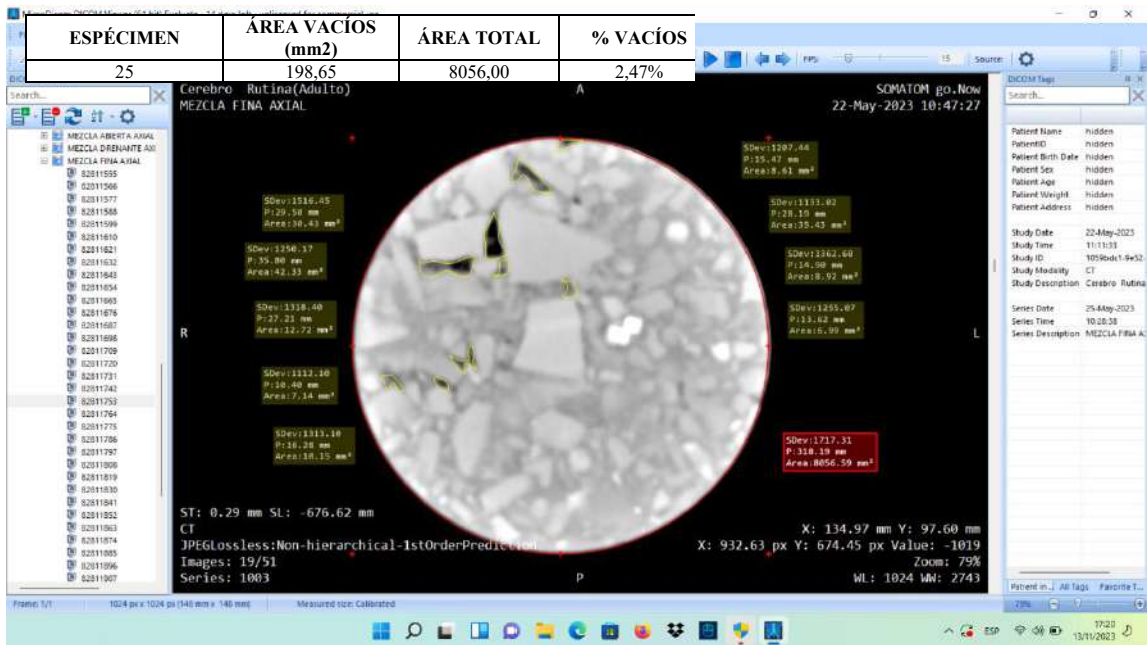


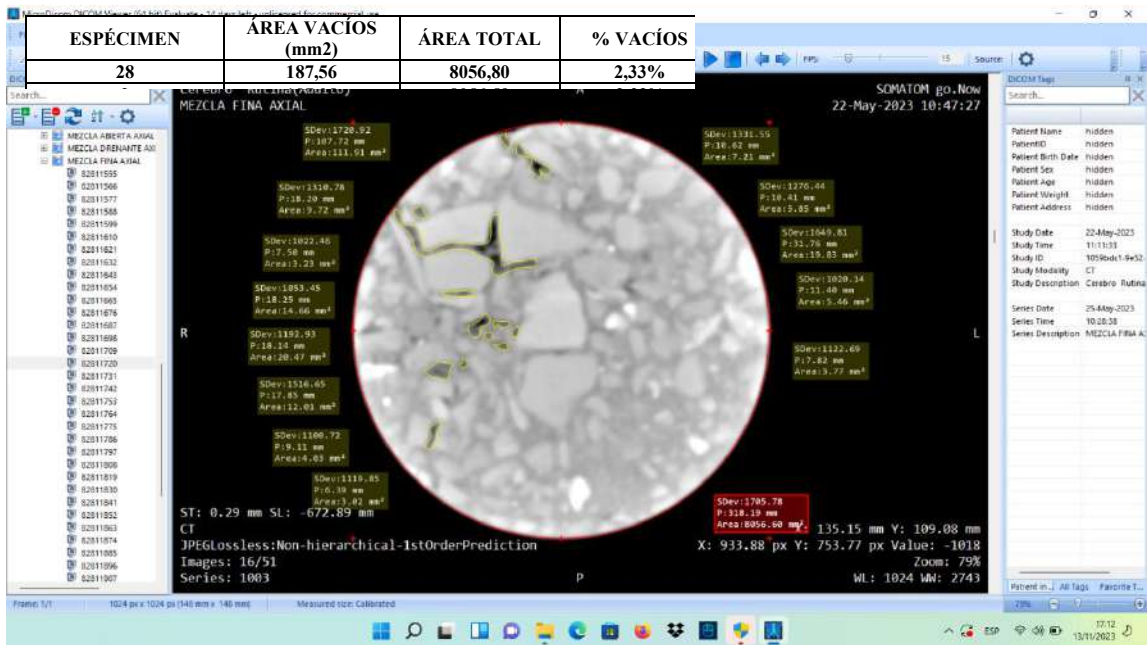
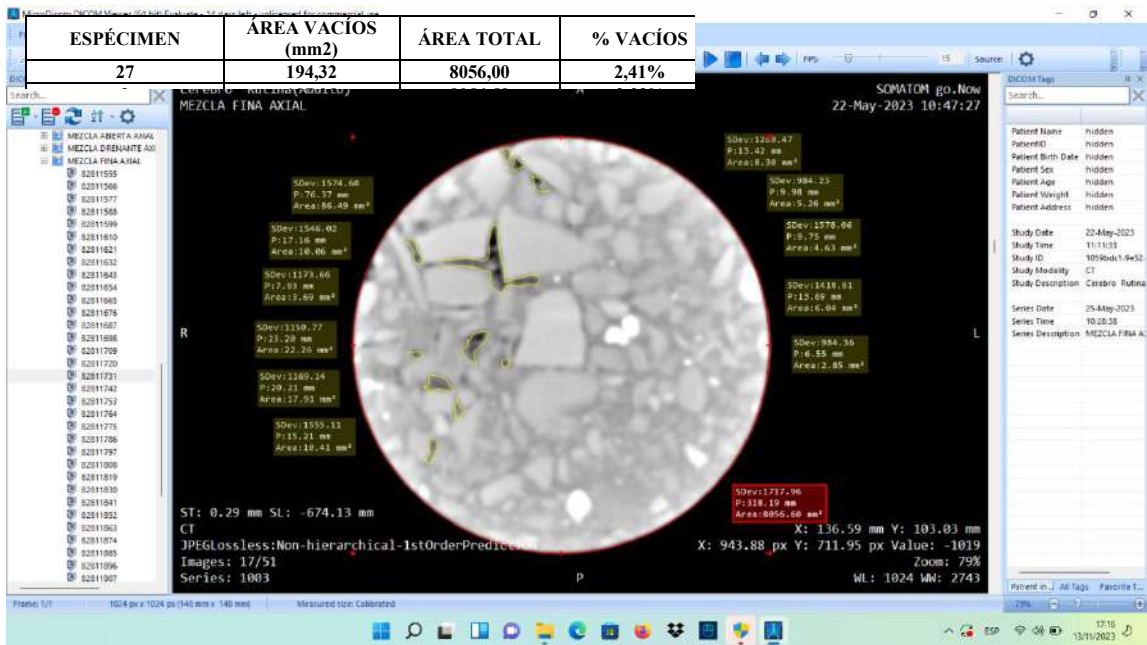


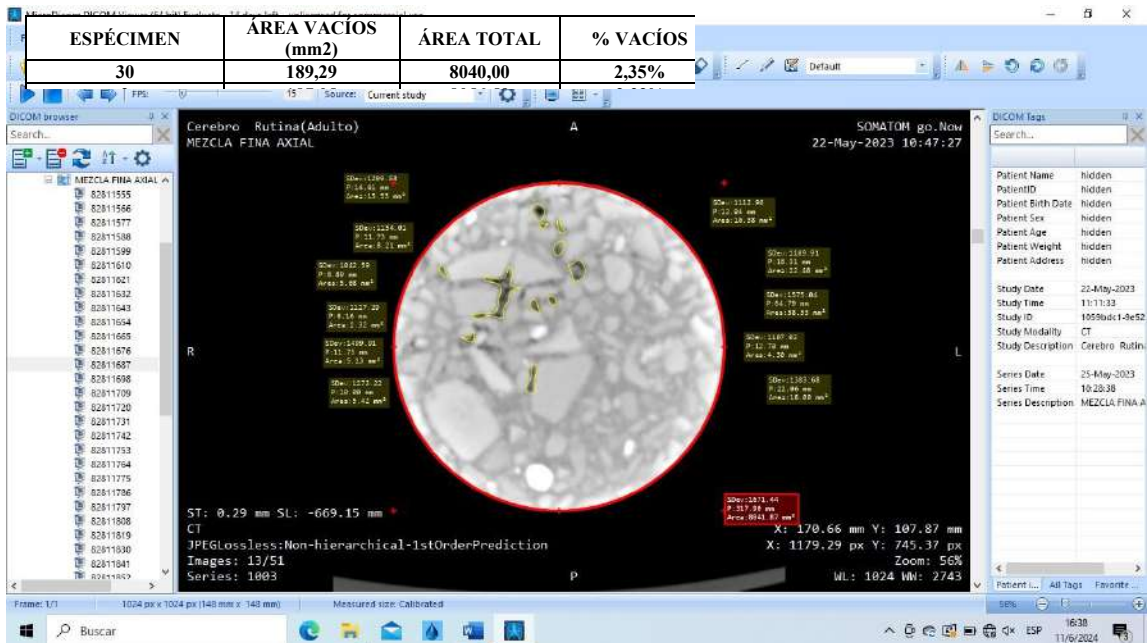
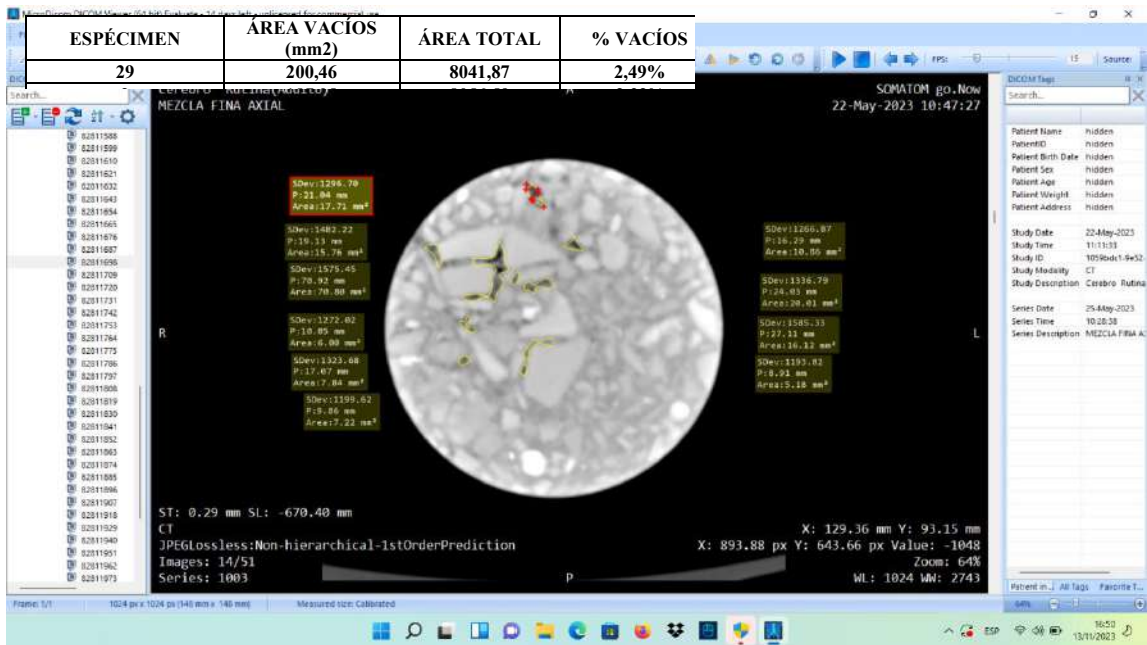




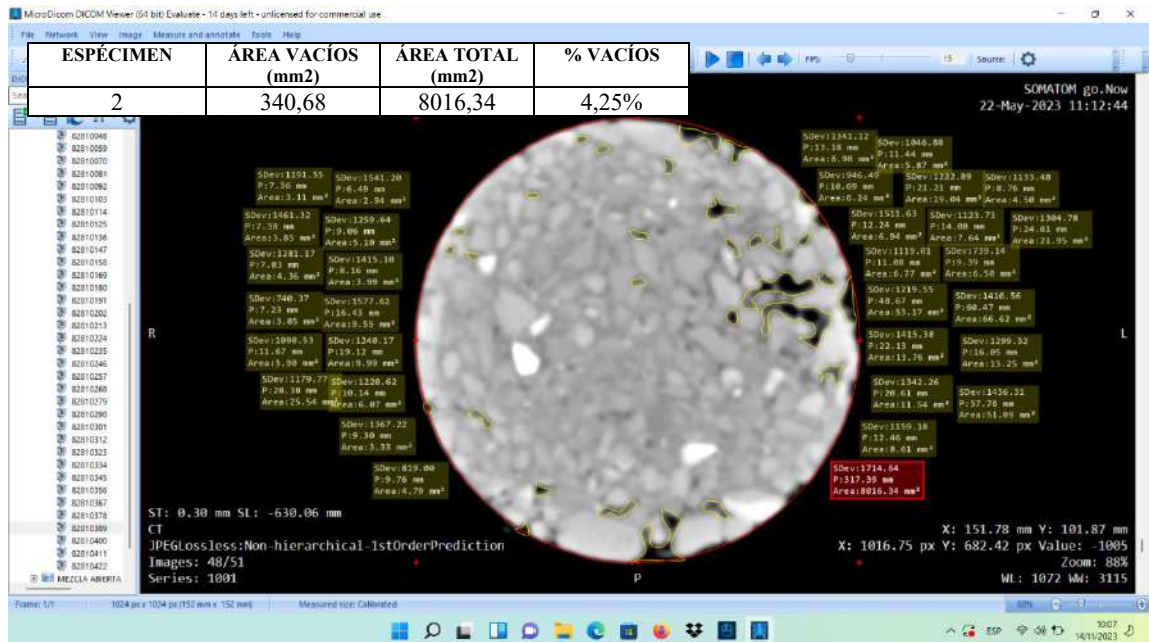
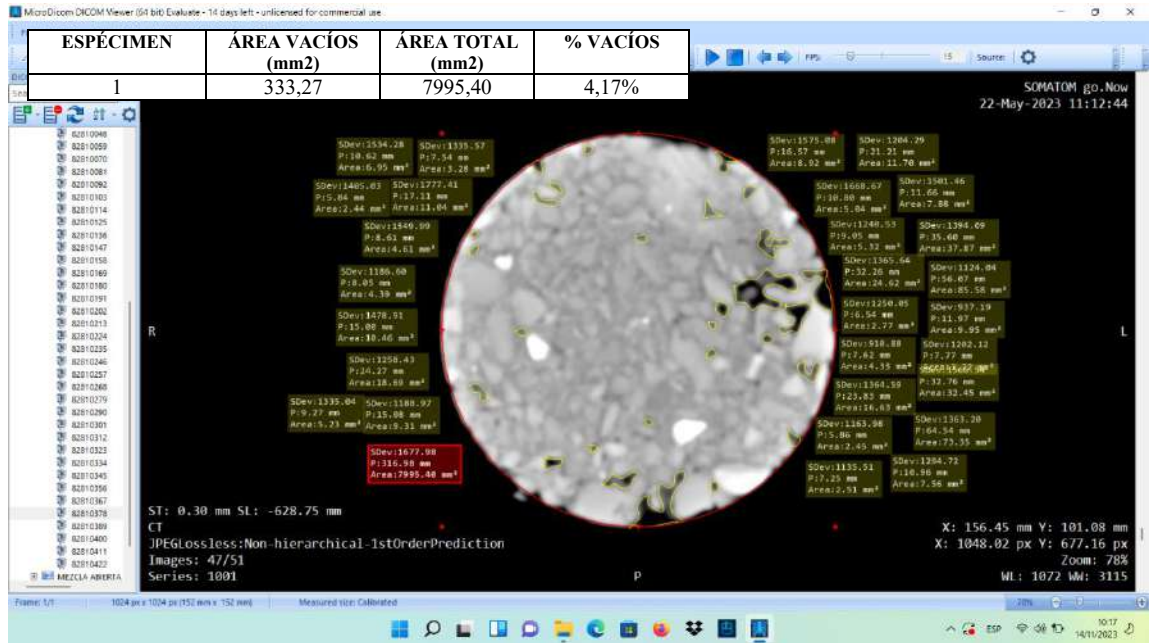


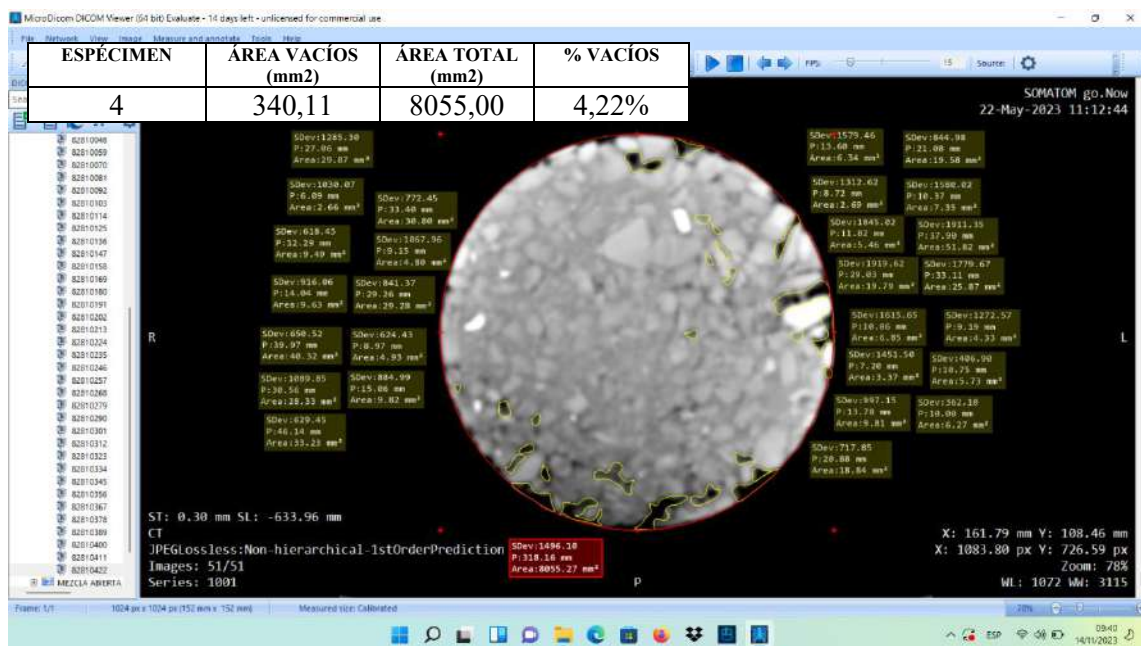
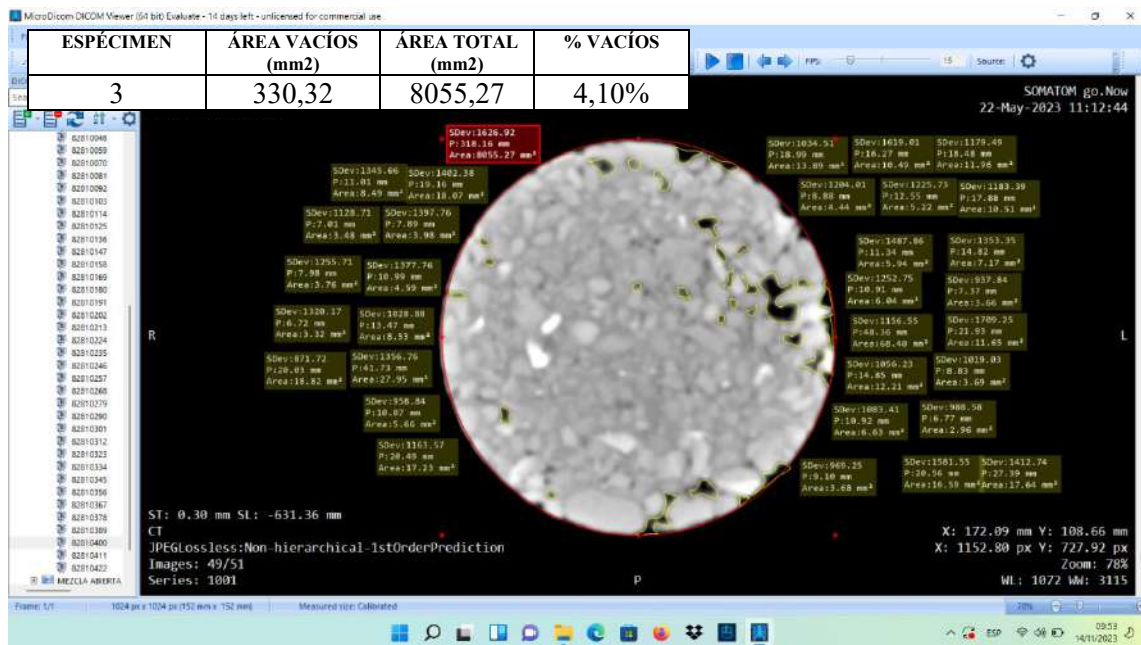


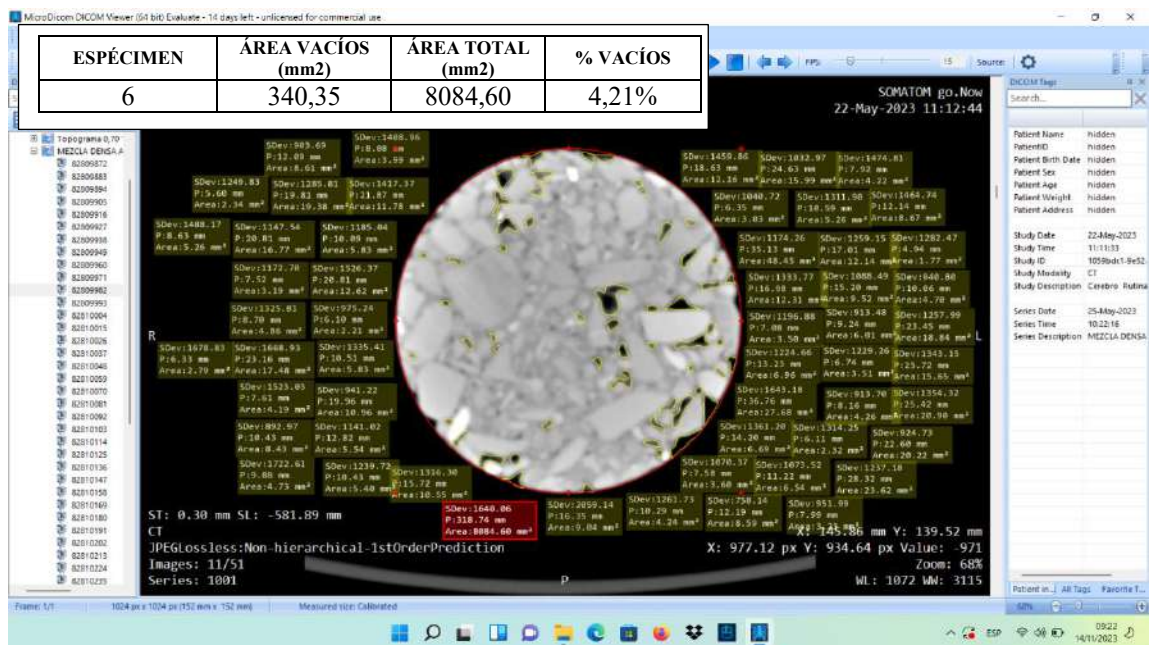
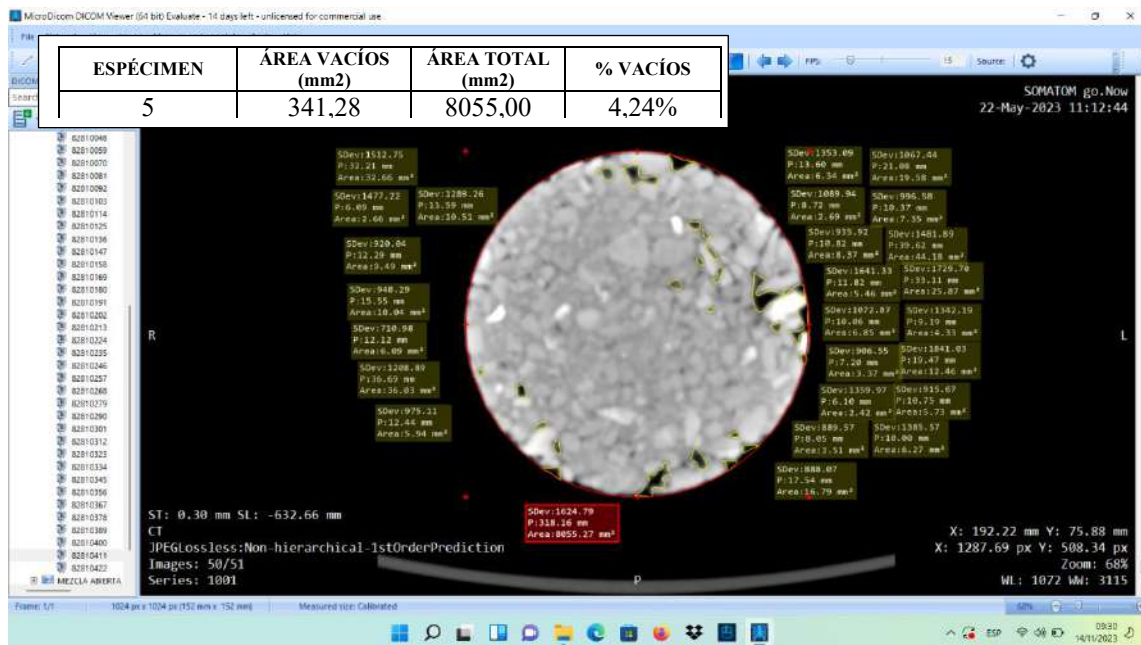


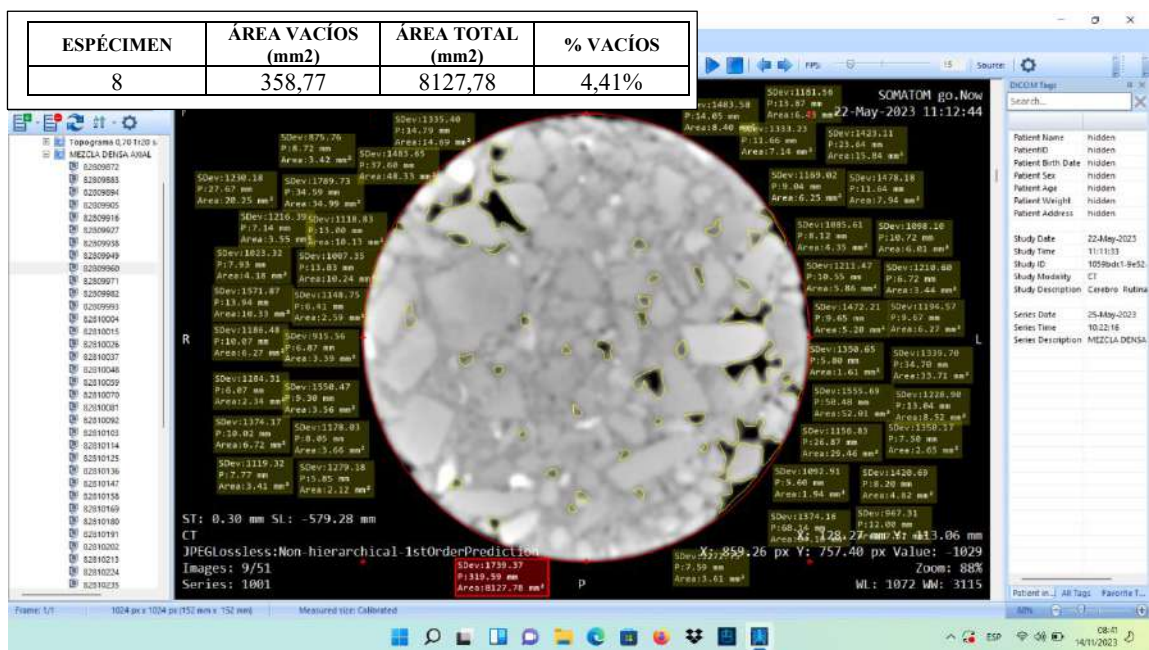
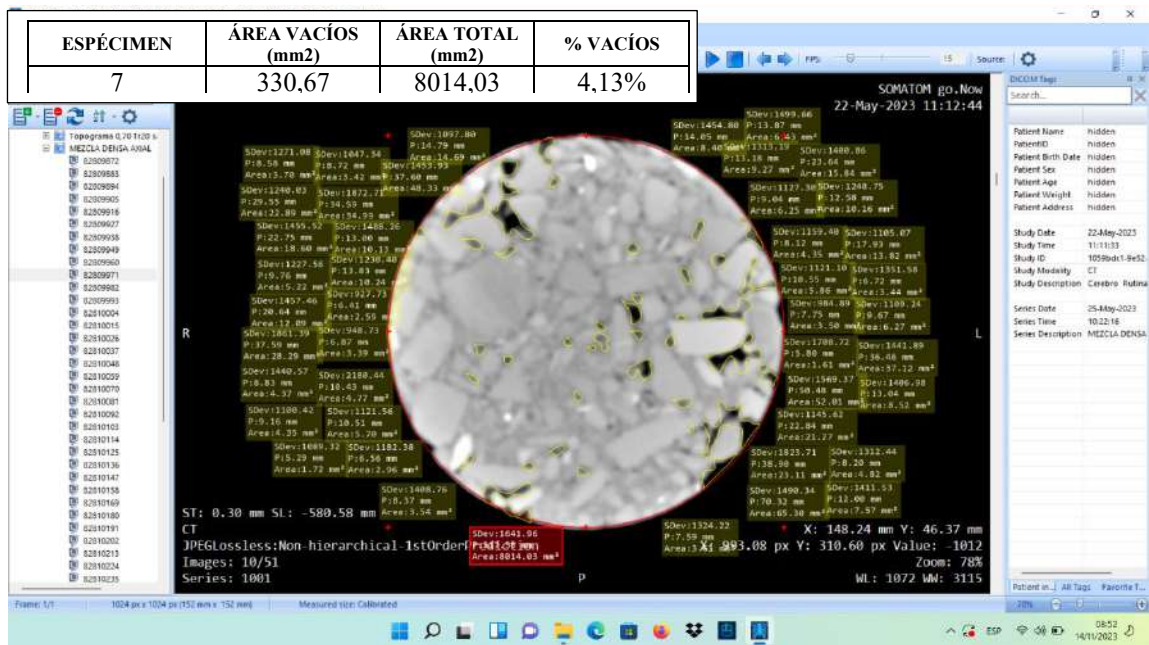


○ MEZCLA ASFÁLTICA DENSA

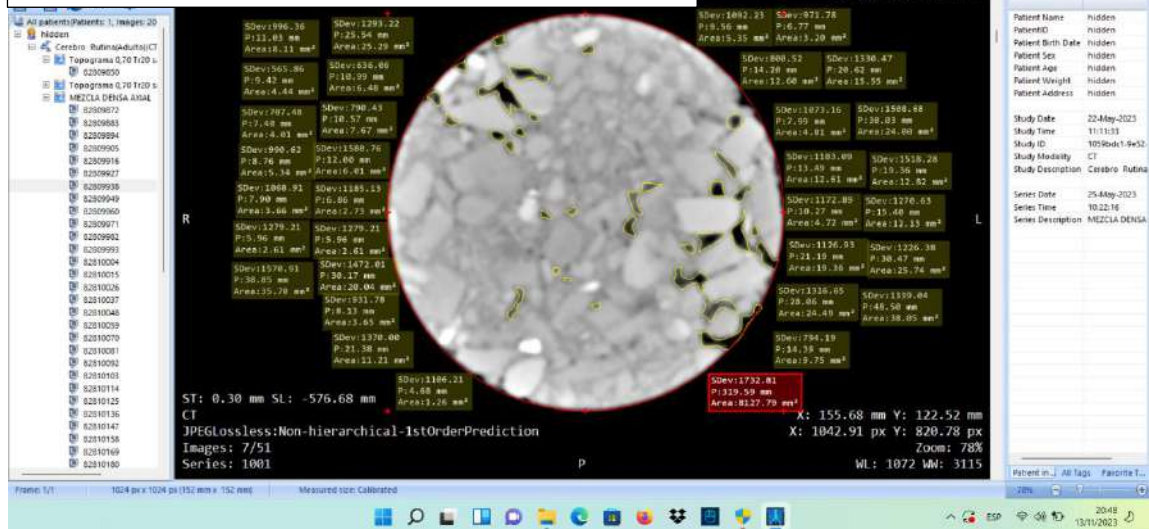




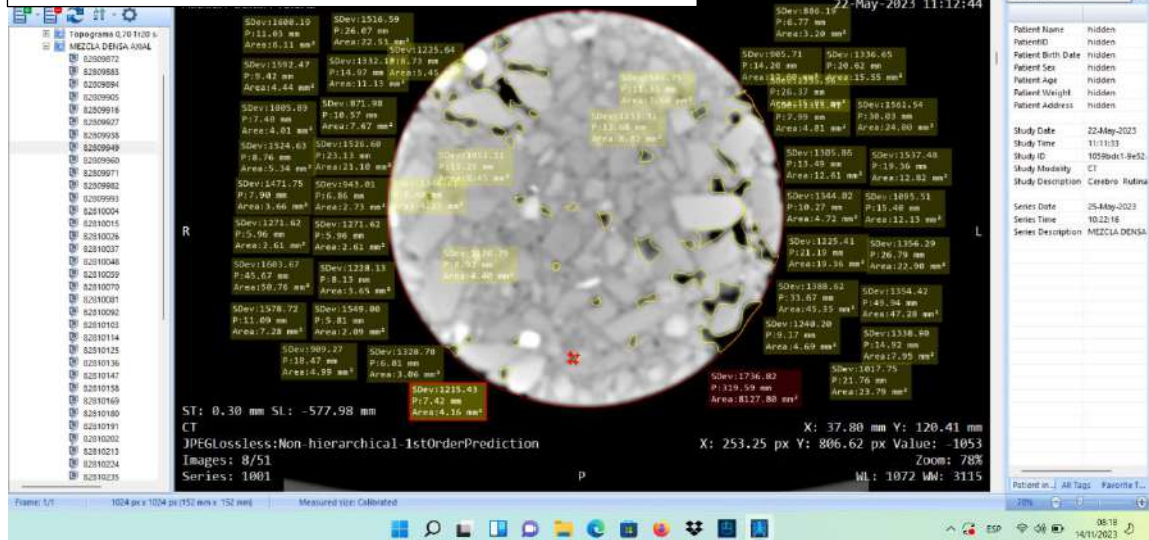




ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
9	350,55	8127,79	4,31%



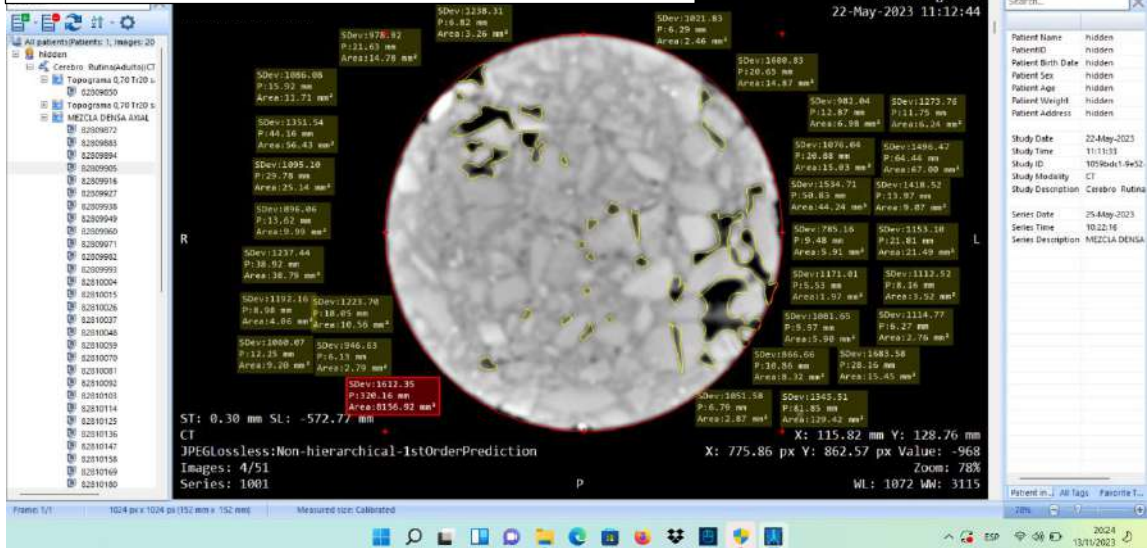
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
10	355,81	8127,80	4,38%

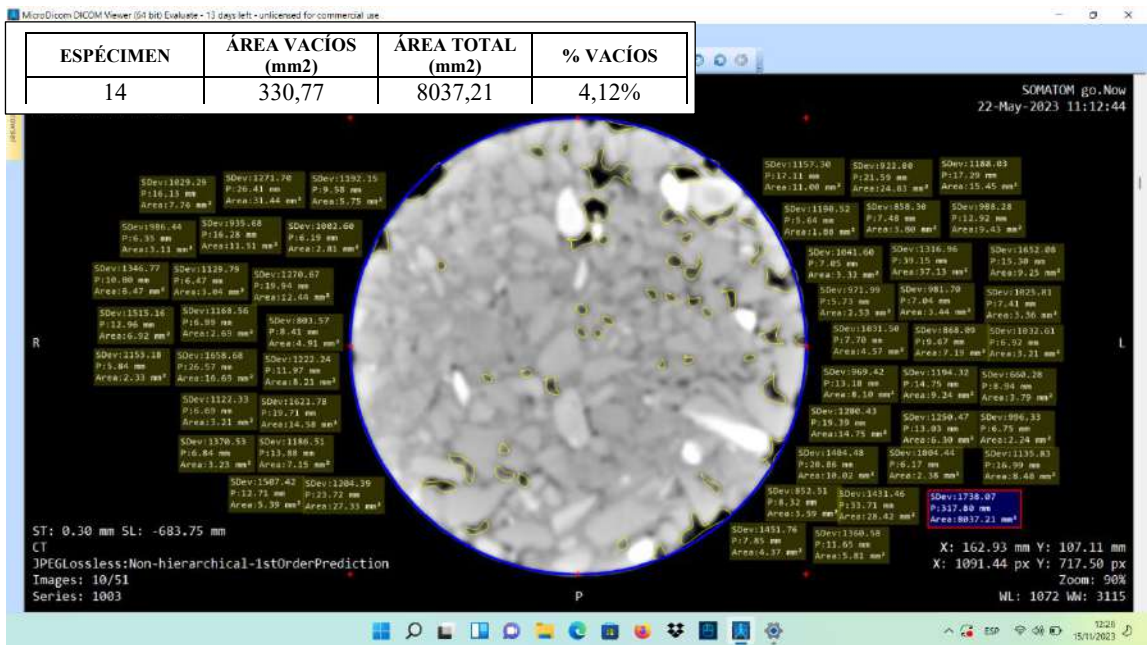
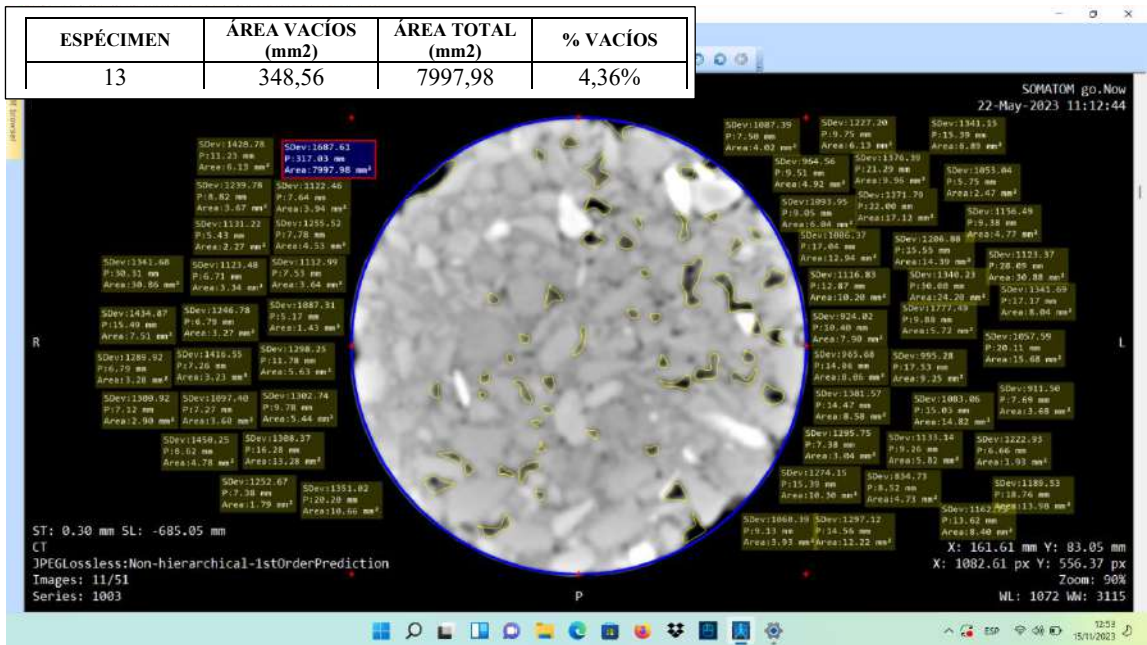


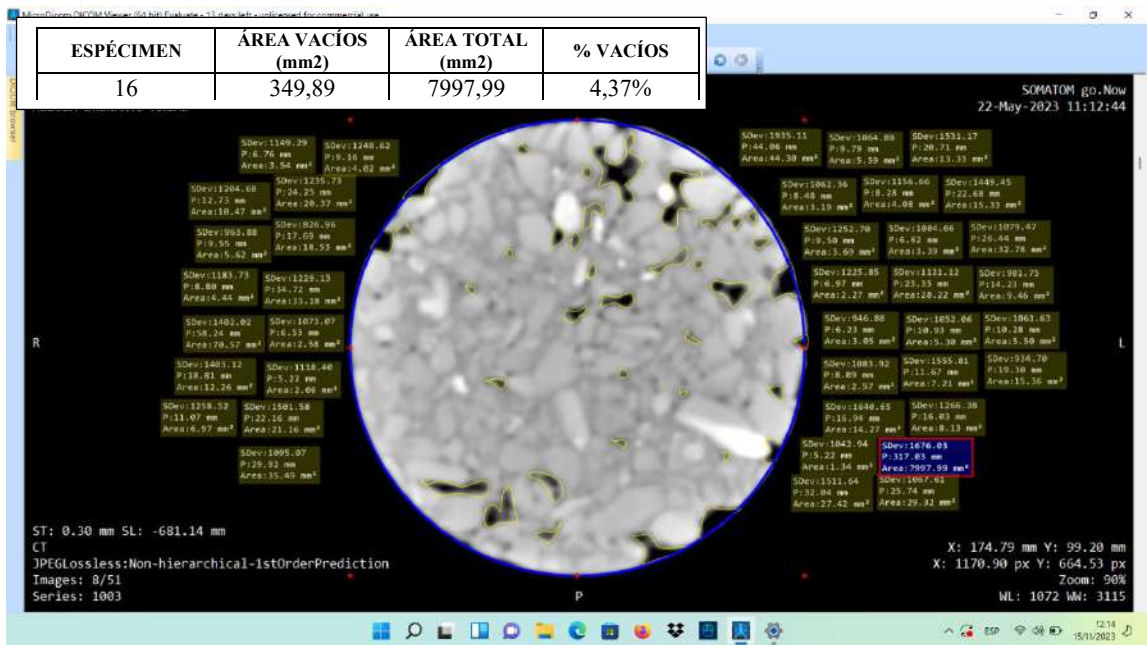
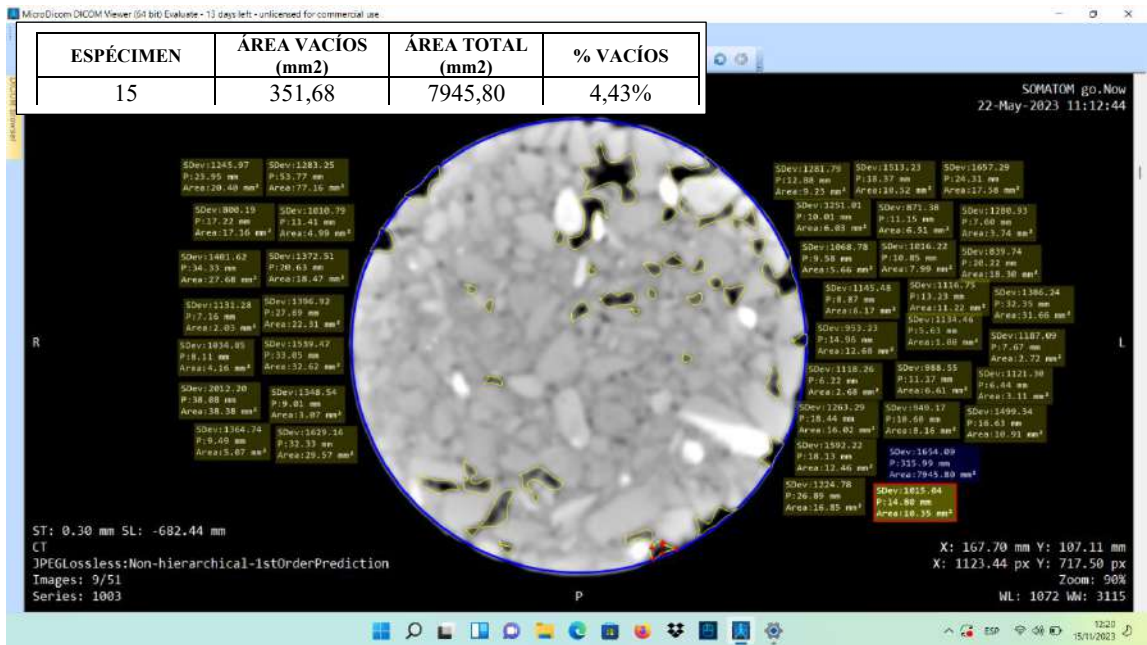
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
11	353,74	8127,79	4,35%

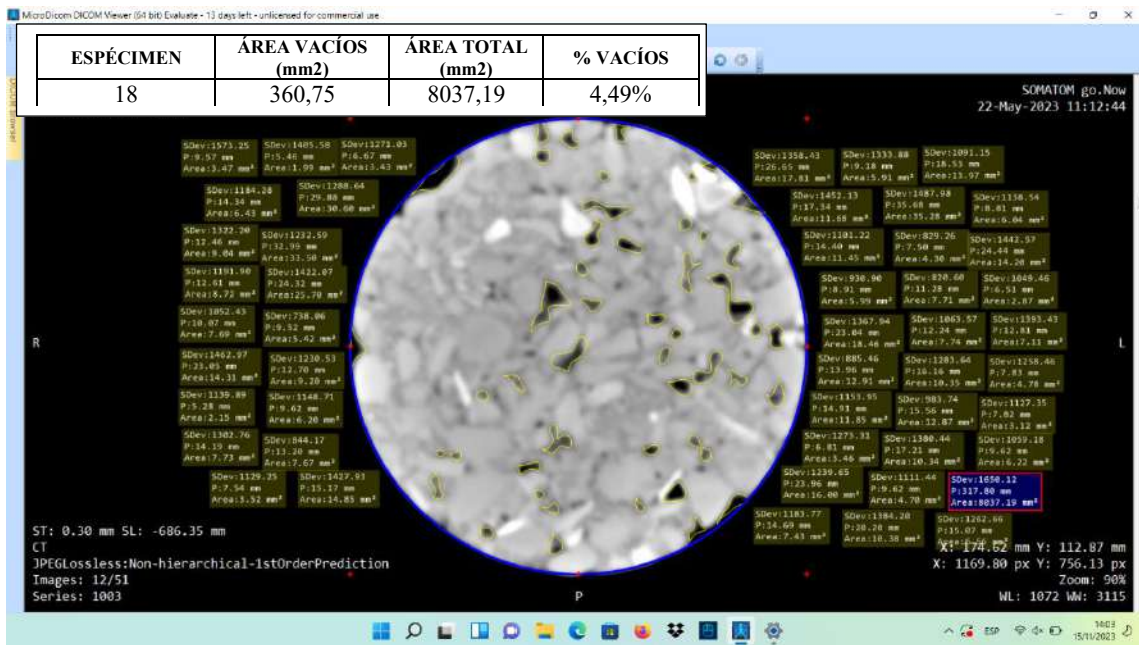
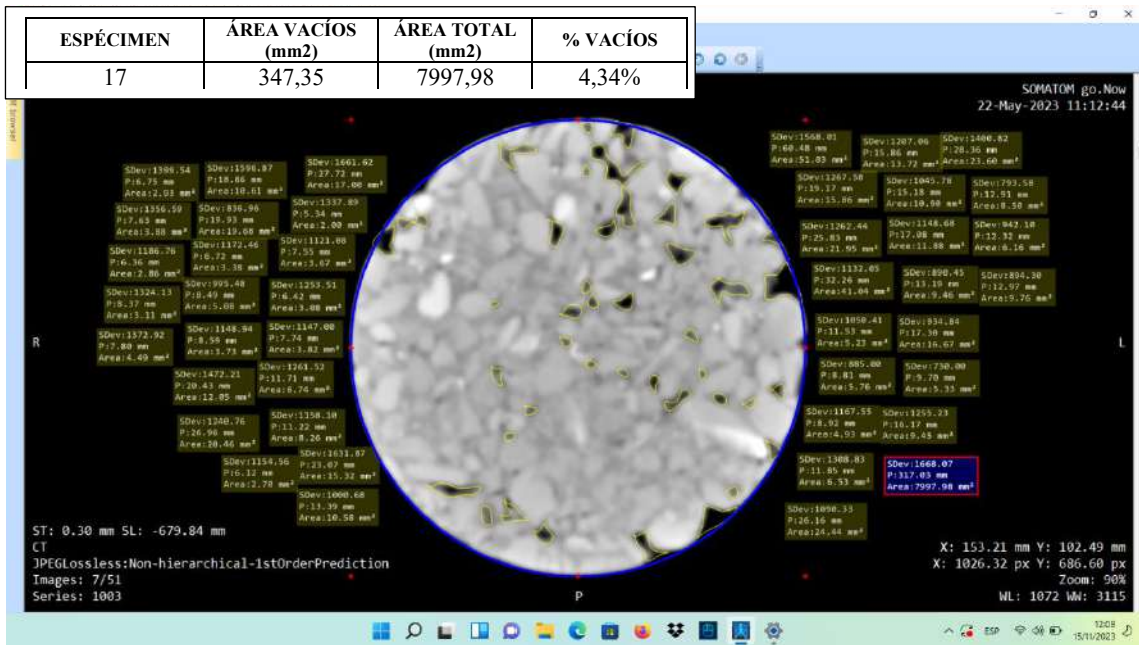


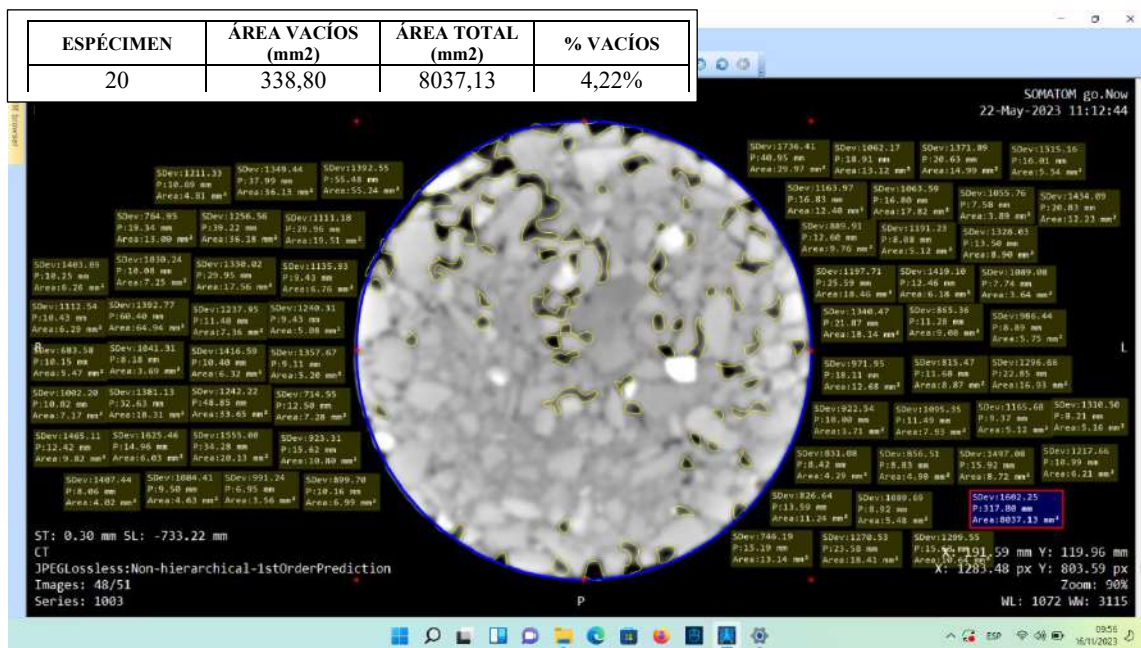
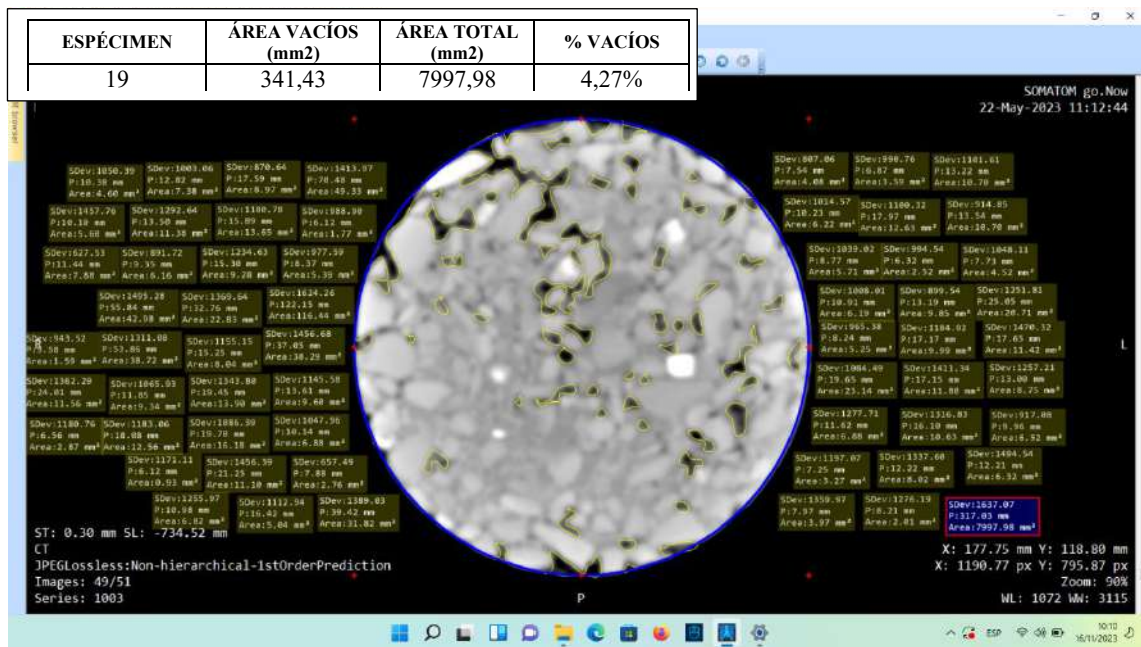
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
12	361,92	8156,92	4,44%



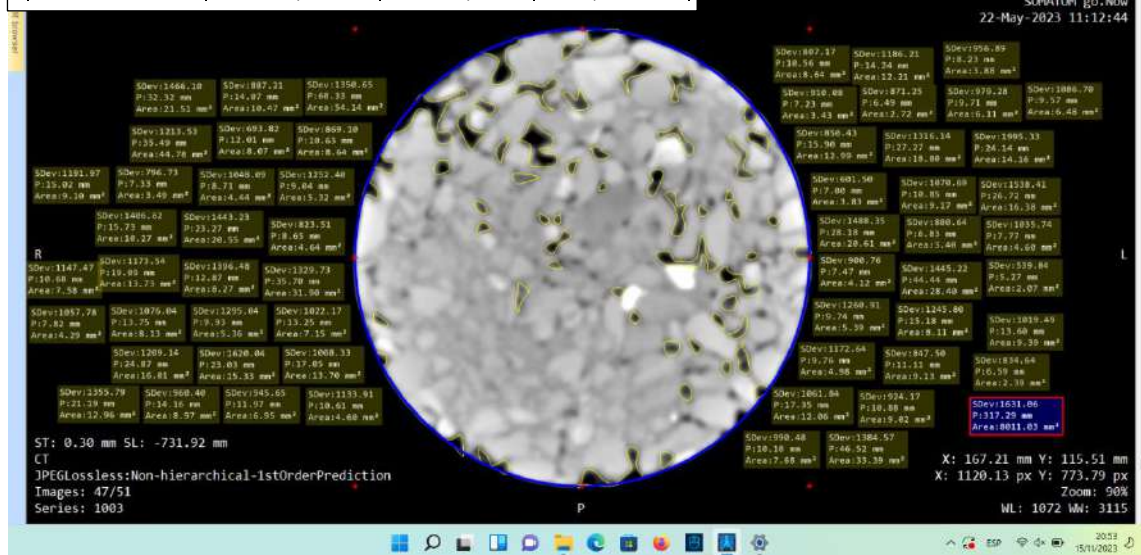




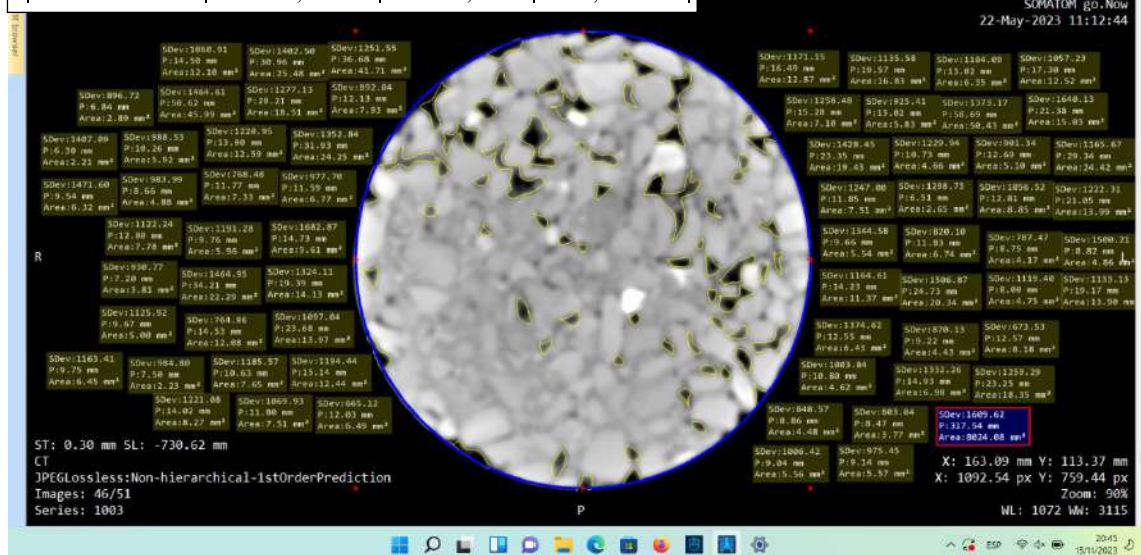




ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
21	337,55	8011,03	4,21%



ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
22	350,11	8024,08	4,36%



ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
23	353,68	8063,32	4,39%

SDev:927.70

P:18.47 mm

Area:1.21 mm²

SDev:1546.79

P:36.52 mm

Area:134.17 mm²

SDev:1380.13

P:62.89 mm

Area:20.18 mm²

SDev:1140.88

P:9.24 mm

Area:4.21 mm²

SDev:1667.82

P:24.54 mm

Area:19.55 mm²

SDev:1201.60

P:11.04 mm

Area:19.81 mm²

SDev:1590.45

P:7.23 mm

Area:3.62 mm²

SDev:1236.61

P:10.89 mm

Area:4.99 mm²

SDev:1400.47

P:16.45 mm

Area:15.34 mm²

SDev:1731.56

P:3.76 mm

Area:2.48 mm²

SDev:1287.35

P:14.95 mm

Area:11.78 mm²

SDev:1311.64

P:18.50 mm

Area:14.32 mm²

SDev:1478.06

P:14.88 mm

Area:8.63 mm²

SDev:1432.17

P:25.46 mm

Area:129.48 mm²

SDev:994.83

P:12.83 mm

Area:5.15 mm²

SDev:1484.39

P:17.40 mm

Area:7.62 mm²

SDev:1052.44

P:11.92 mm

Area:7.95 mm²

SDev:1162.83

P:7.88 mm

Area:4.25 mm²

SDev:1395.32

P:18.27 mm

Area:1.95 mm²

SDev:1136.91

P:13.64 mm

Area:16.38 mm²

SDev:177.63

P:13.18 mm

Area:7.16 mm²

SDev:1262.36

P:6.67 mm

Area:1.85 mm²

SDev:887.78

P:15.64 mm

Area:1.93 mm²

SDev:1475.83

P:42.44 mm

Area:42.40 mm²

SDev:1878.26

P:5.55 mm

Area:1.72 mm²

SDev:1539.33

P:11.54 mm

Area:20.16 mm²

SDev:1360.77

P:11.29 mm

Area:17.53 mm²

SDev:1583.83

P:62.58 mm

Area:71.40 mm²

SDev:1458.85

P:22.18 mm

Area:16.12 mm²

SDev:1095.41

P:11.94 mm

Area:6.65 mm²

SDev:1174.54

P:7.36 mm

Area:4.21 mm²

SDev:1660.86

P:7.32 mm

Area:3.58 mm²

SDev:932.36

P:17.65 mm

Area:15.85 mm²

SDev:984.53

P:20.11 mm

Area:16.85 mm²

SDev:773.64

P:16.18 mm

Area:4.82 mm²

SDev:1314.94

P:9.59 mm

Area:4.59 mm²

SDev:1057.06

P:12.61 mm

Area:3.52 mm²

SDev:1214.42

P:11.42 mm

Area:5.88 mm²

SDev:1367.95

P:31.43 mm

Area:17.74 mm²

SDev:1831.43

P:18.83 mm

Area:13.22 mm²

SDev:1676.21

P:6.39 mm

Area:2.30 mm²

SDev:1048.55

P:16.18 mm

Area:19.07 mm²

SDev:1729.14

P:11.33 mm

Area:6.78 mm²

SDev:1133.59

P:19.31 mm

Area:13.27 mm²

SDev:889.95

P:17.24 mm

Area:11.51 mm²

SDev:1407.31

P:19.48 mm

Area:16.80 mm²

SDev:966.96

P:18.21 mm

Area:17.29 mm²

SDev:1071.80

P:8.82 mm

Area:5.82 mm²

SDev:1227.87

P:29.31 mm

Area:21.45 mm²

SDev:884.25

P:13.82 mm

Area:10.11 mm²

SDev:1186.48

P:18.65 mm

Area:17.53 mm²

SDev:1087.05

P:13.08 mm

Area:7.77 mm²

SDev:1021.41

P:17.71 mm

Area:13.85 mm²

SDev:1082.71

P:20.75 mm

Area:24.95 mm²

SDev:924.08

P:22.56 mm

Area:11.61 mm²

SDev:575.43

P:33.32 mm

Area:8863.32 mm²

ST: 0.30 mm

5L: -737.13 mm

CT

JPEGLossless:Non-hierarchical-1stOrderPrediction

Images: 51/51

Image: 1003

X: 1234.91

Y: 731.85

Zoom: 90%

WL: 1072 WL: 3115

SOMATOM go.Now

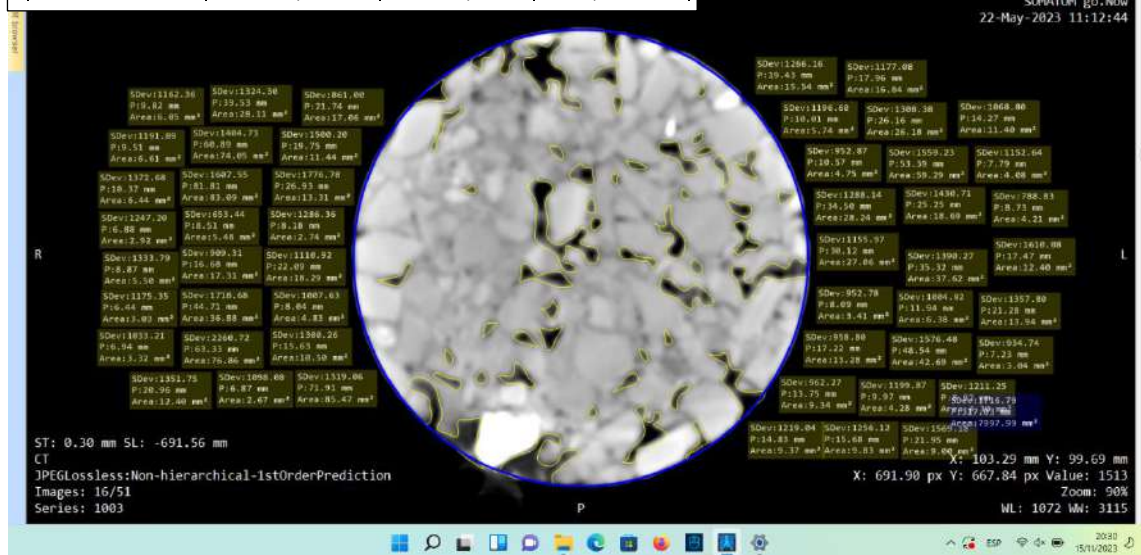
22-May-2023 11:12:44

ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
24	343,77	8050,25	4,27%

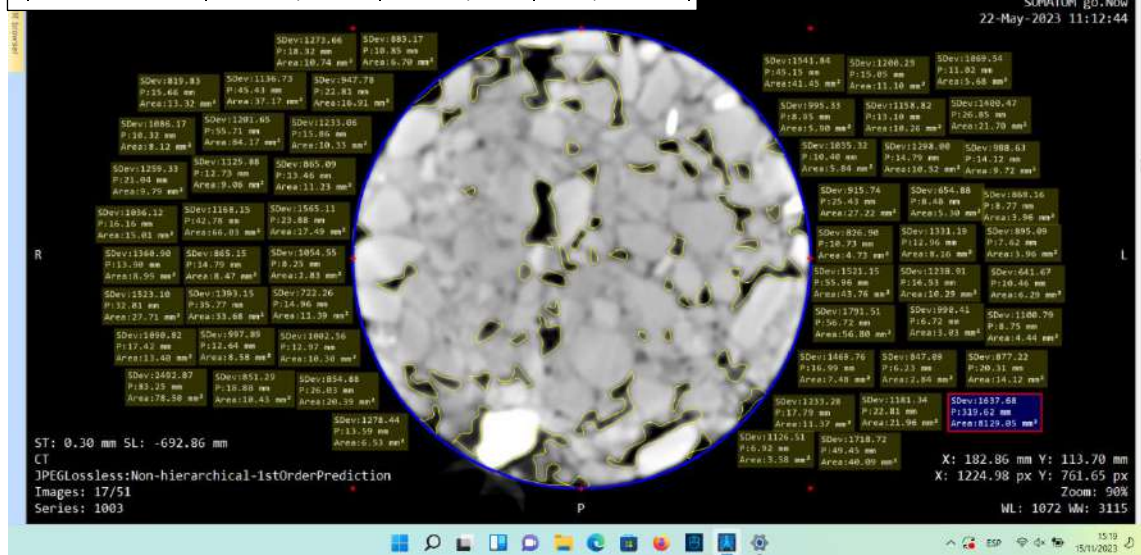
ST: 0.30 mm SL: -735.82 mm
CT
PGLossless:Non-hierarchical-1stOrderPrediction
Images: 50/51
Series: 1003

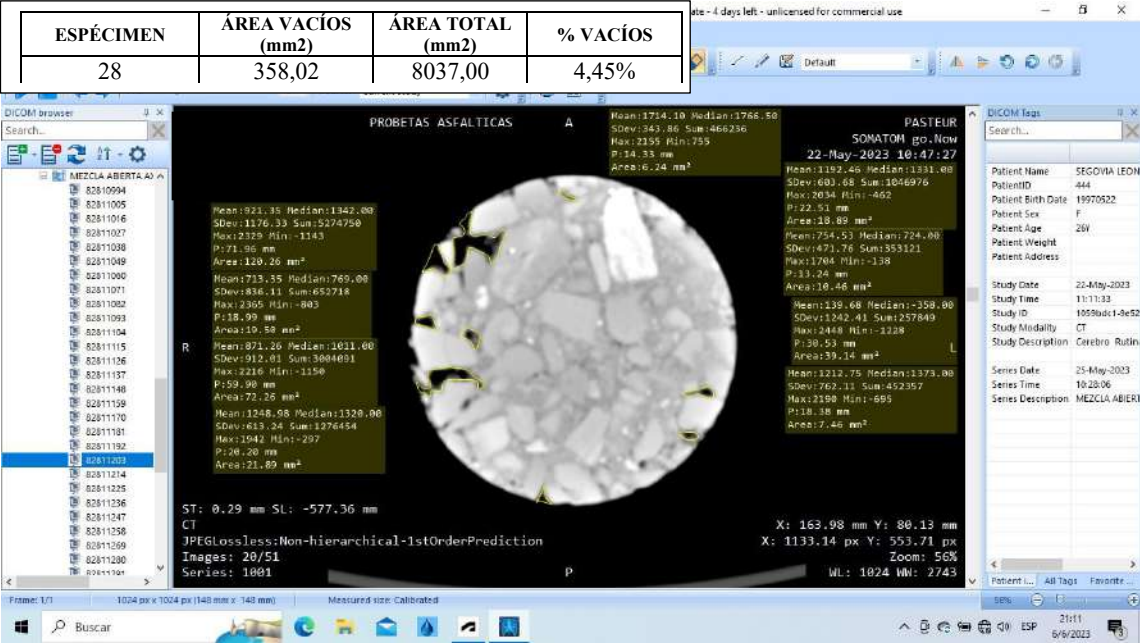
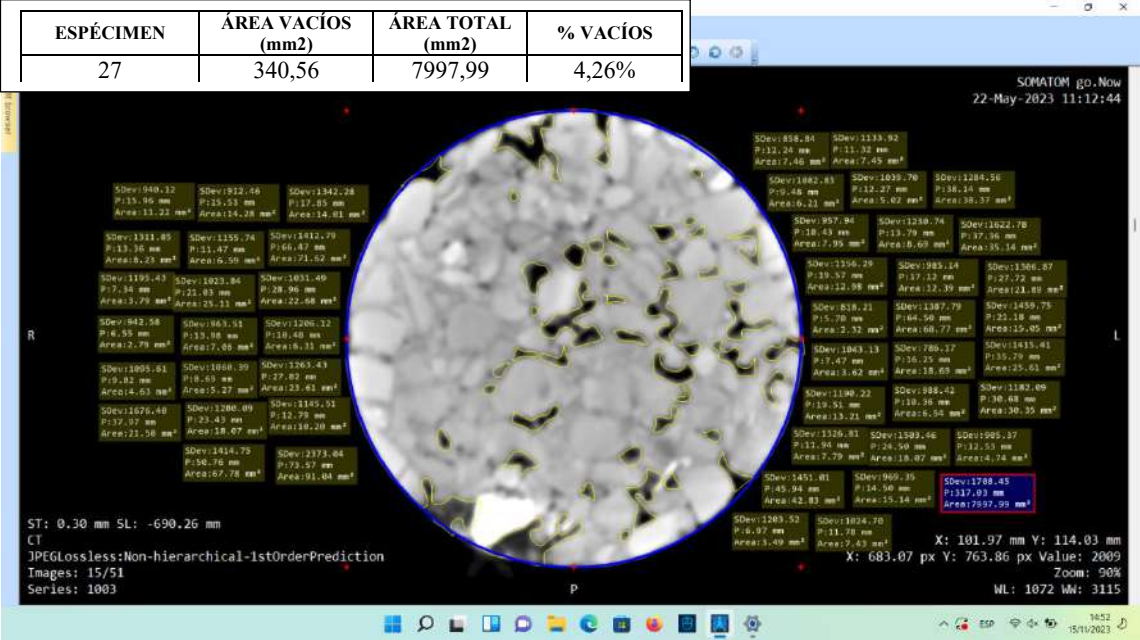
X: 187.15 mm Y: 100.68 mm
X: 1253.68 px Y: 674.46 px
Zoom: 90%
WL: 1072 WL: 3115

ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
25	341,63	7997,99	4,27%

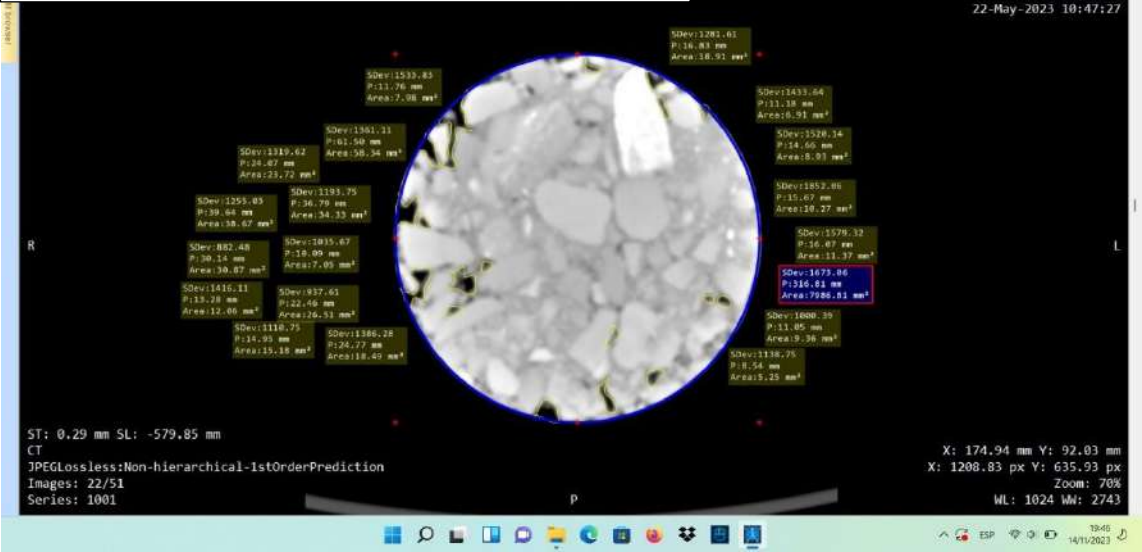


ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
26	355,87	8129,05	4,38%





ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
29	350,45	7986,81	4,39%



ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
30	353,87	8047,81	4,40%

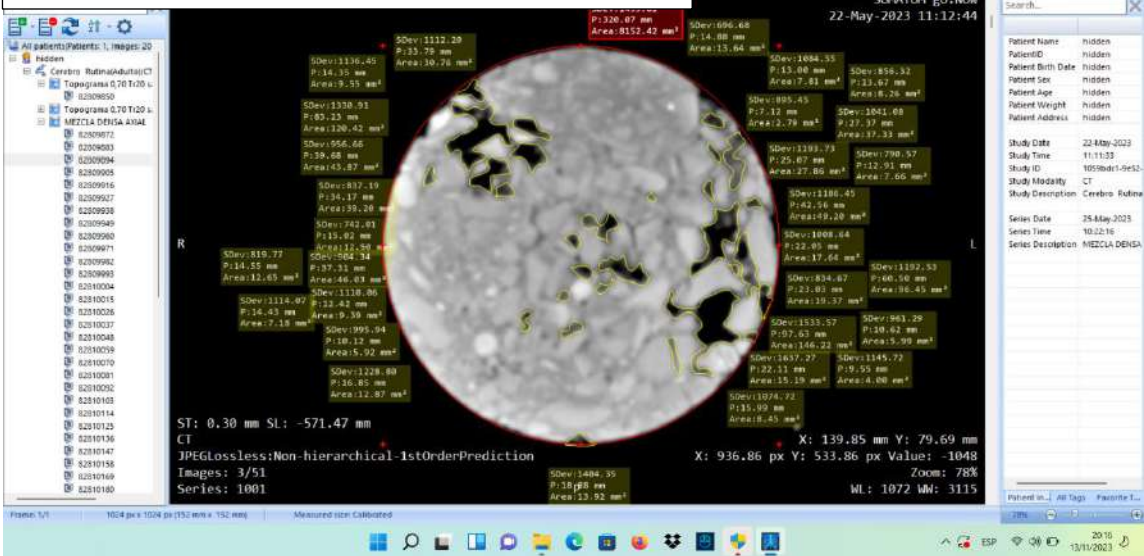


○ MEZCLA ASFÁLTICA ABIERTA

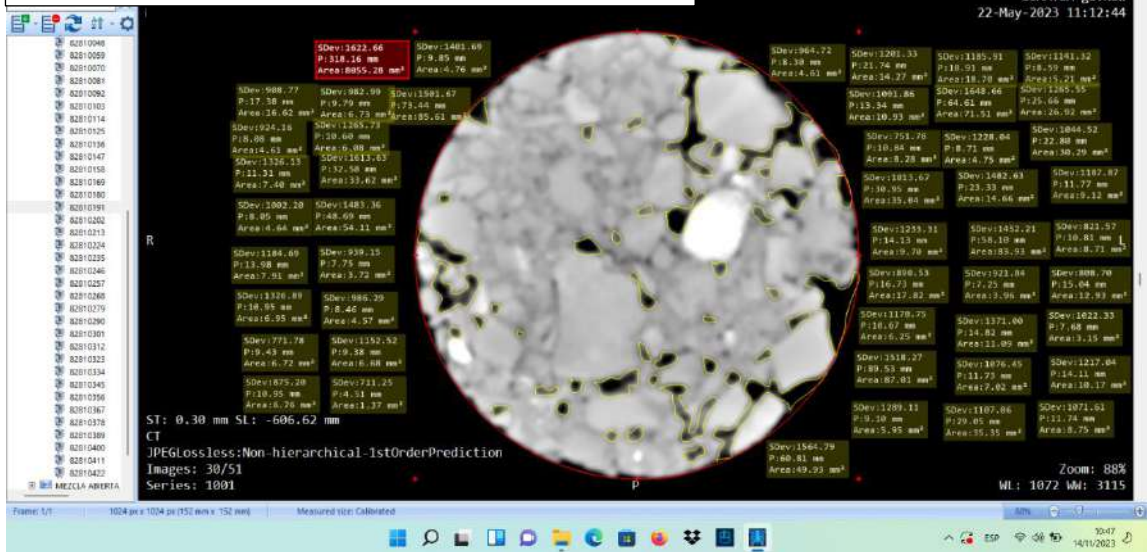
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
1	883,71	8173,78	10,81%



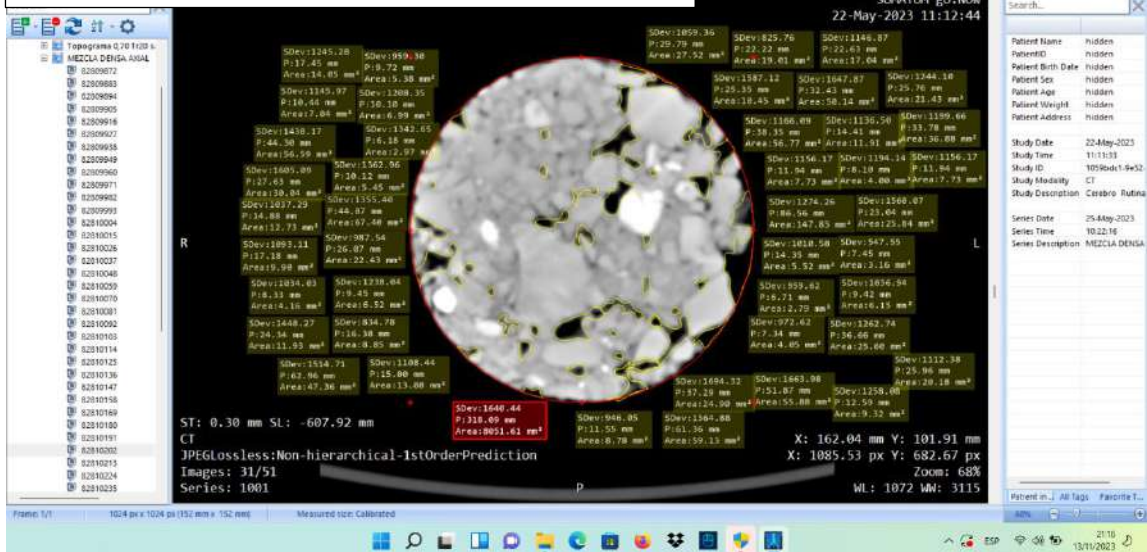
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
2	884,50	8152,92	10,85%



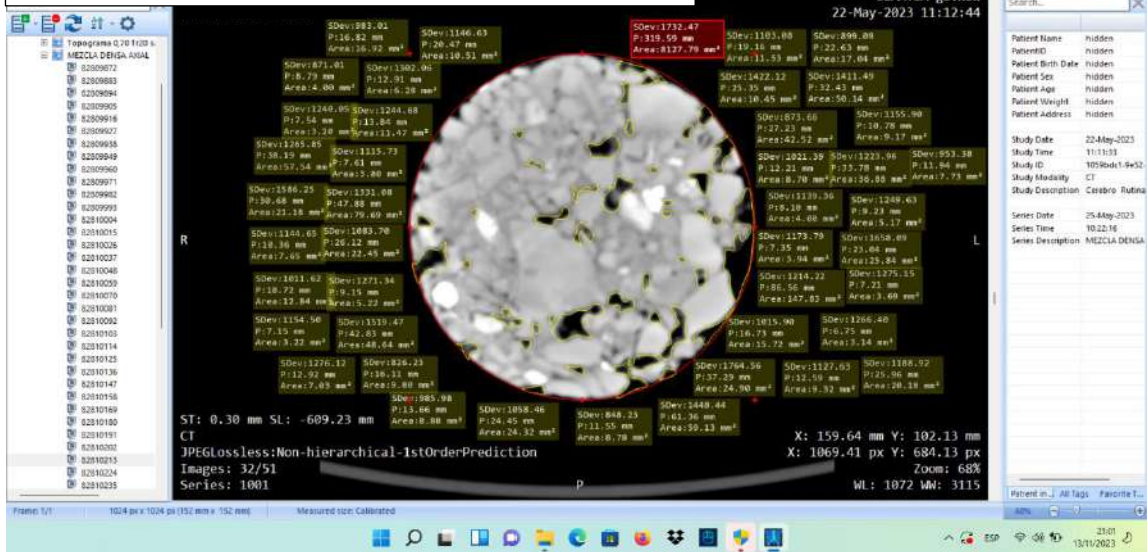
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
3	870,00	8053,28	10,80%



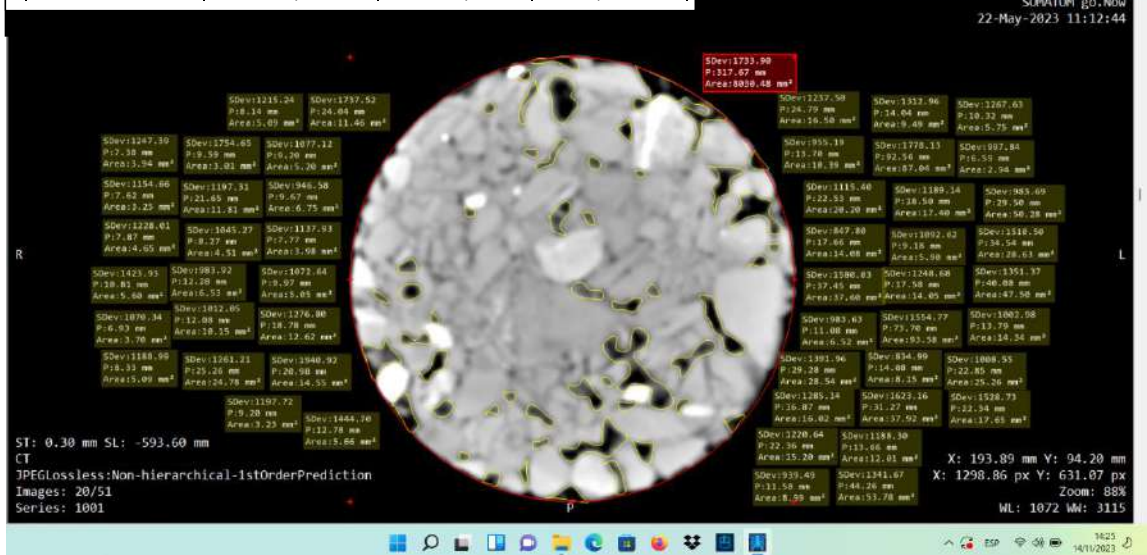
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
4	845,30	8051,61	10,50%



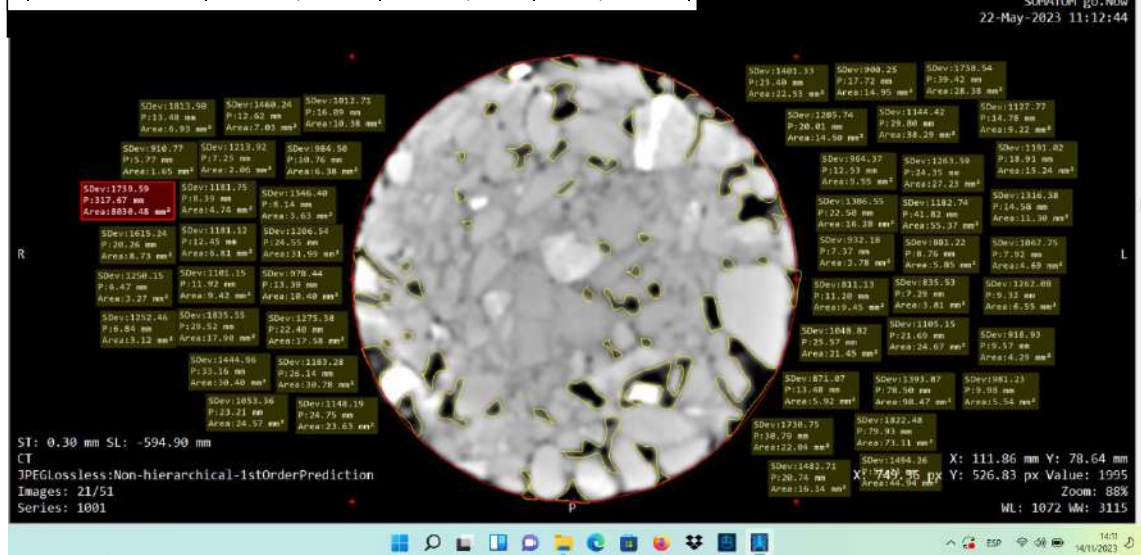
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
5	889,11	8127,79	10,94%



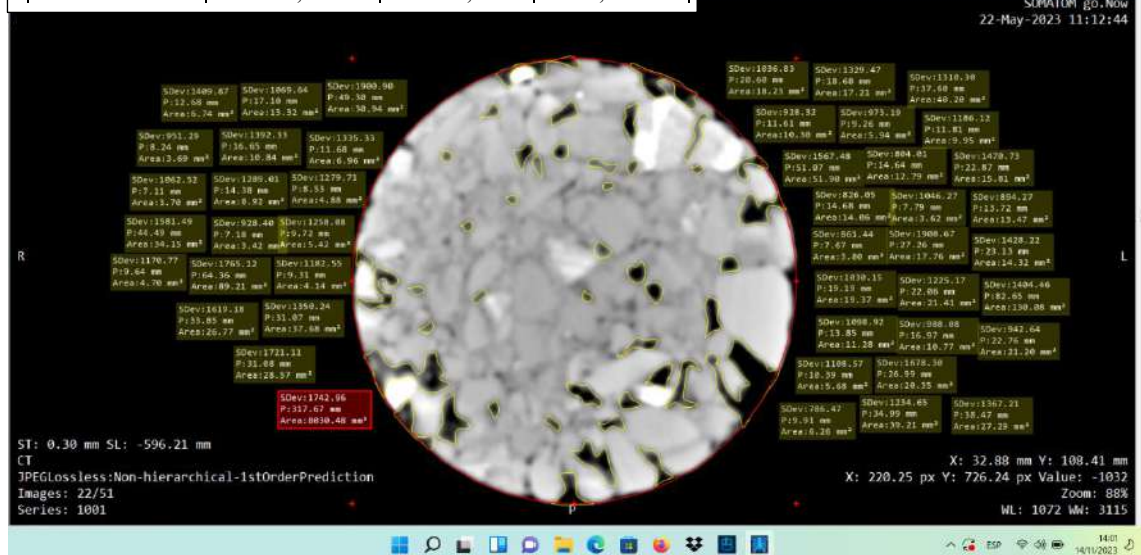
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
6	829,56	8030,48	10,33%



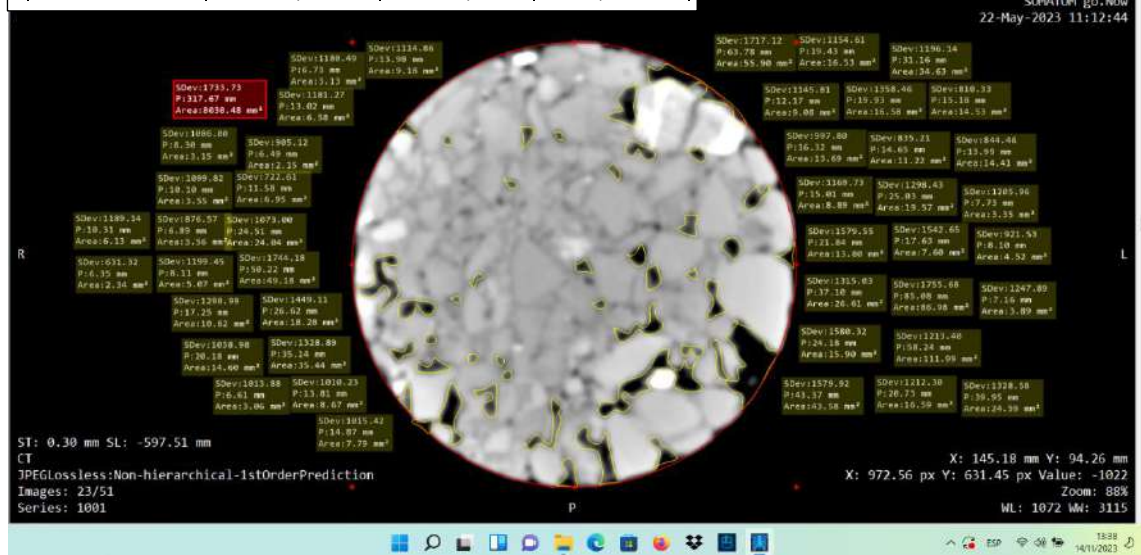
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
7	810,21	8030,00	10,09%



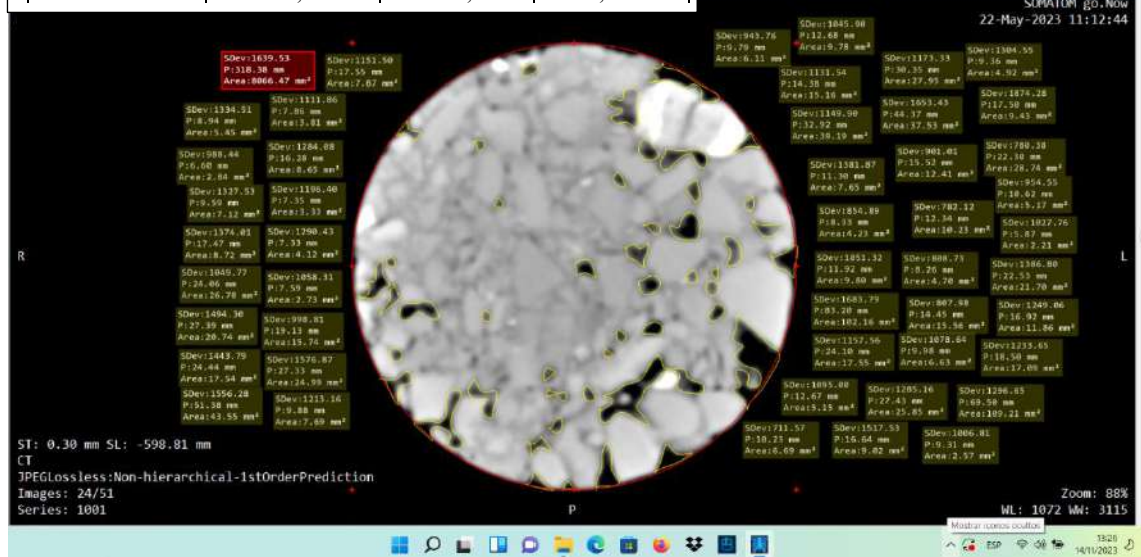
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
8	830,45	8050,00	10,32%



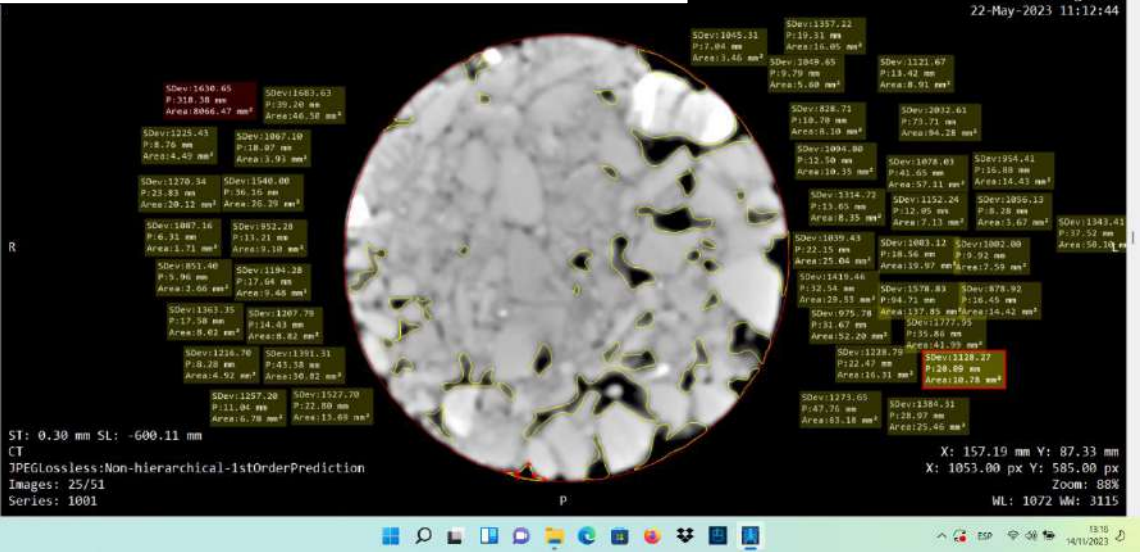
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
9	850,23	8045,60	10,57%



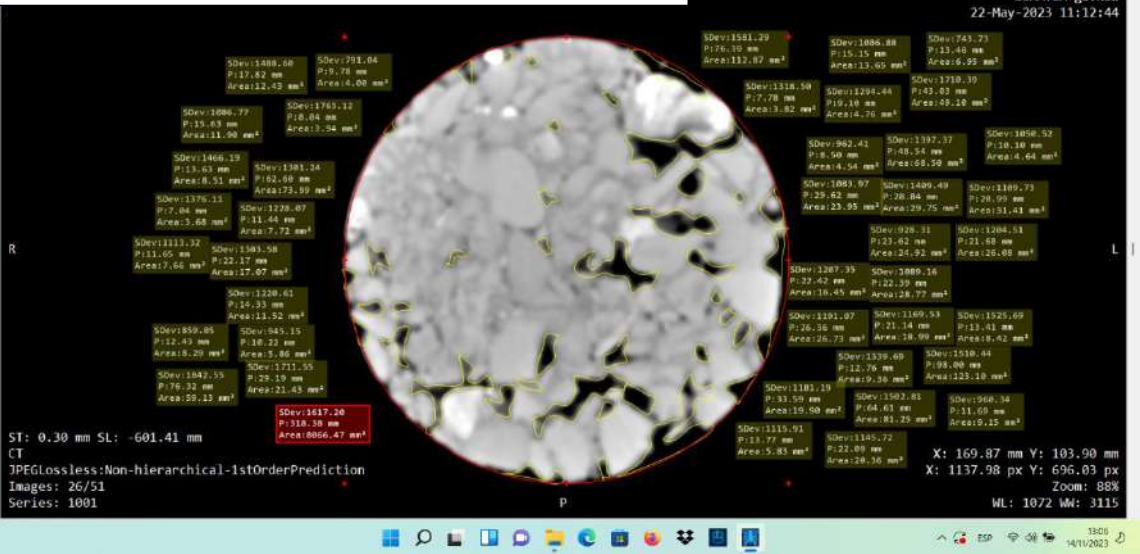
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
10	830,13	8066,47	10,29%

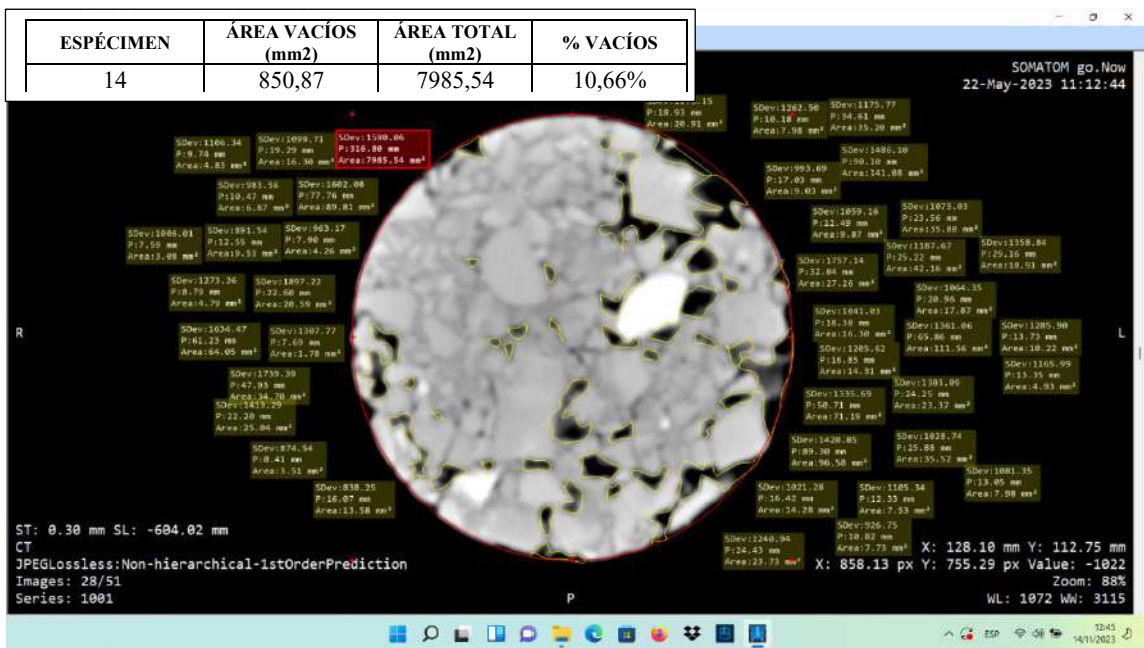
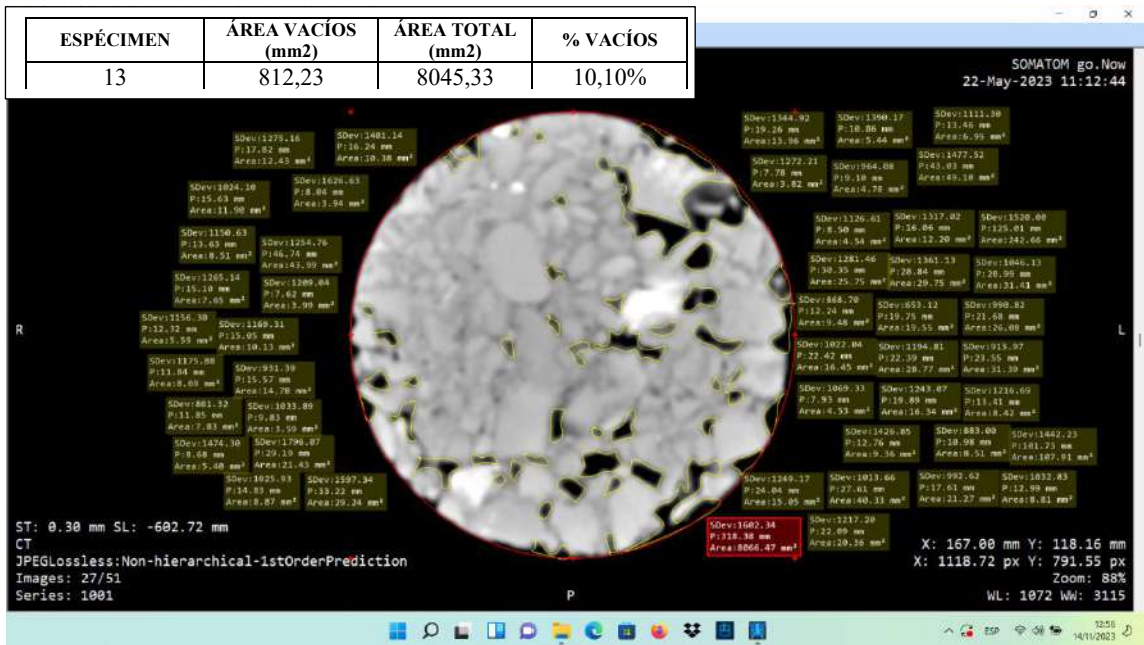


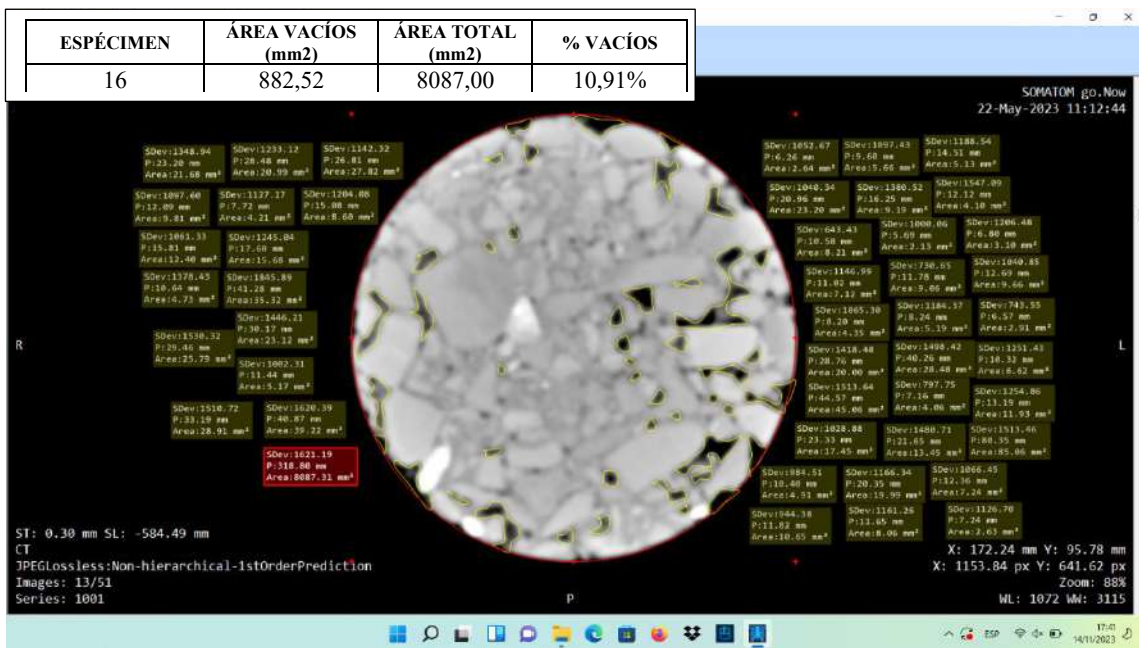
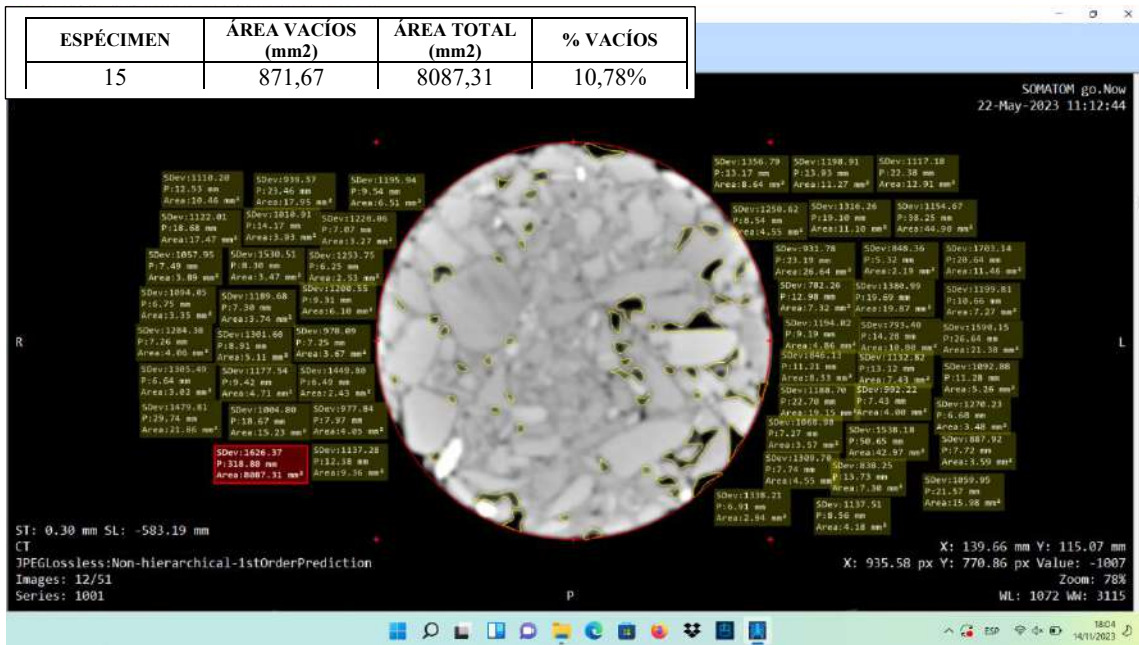
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
11	870,25	8066,00	10,79%



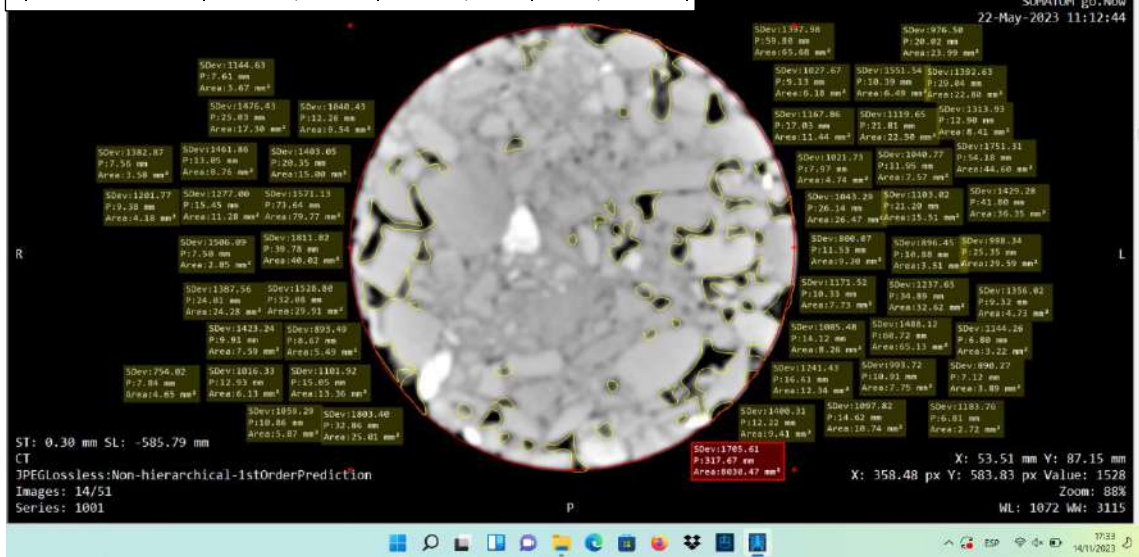
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
12	870,55	8080,00	10,77%



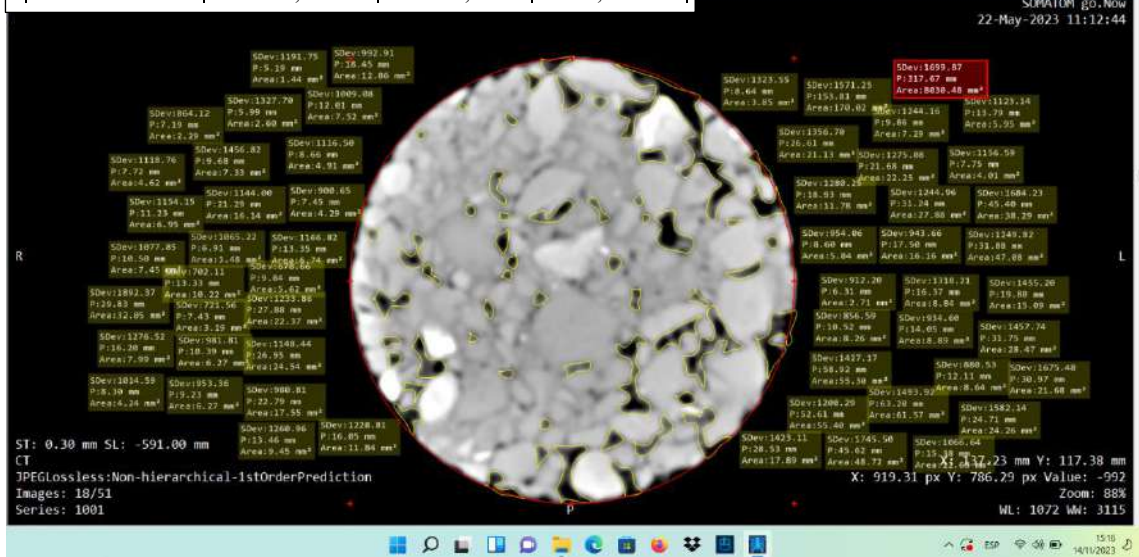




ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
17	870,11	8030,47	10,84%



ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
18	855,35	8030,48	10,65%

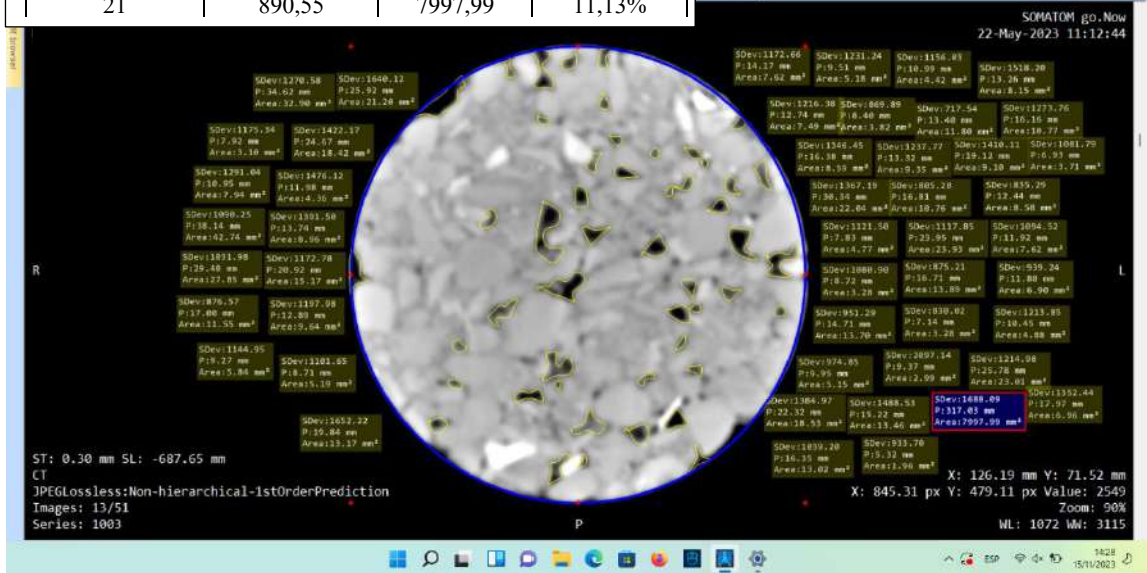


ST: 0.30 mm SL: -592.30 mm
CT
JPEGLossless:Non-hierarchical-1stOrderPrediction
Images: 19/51
Series: 1001

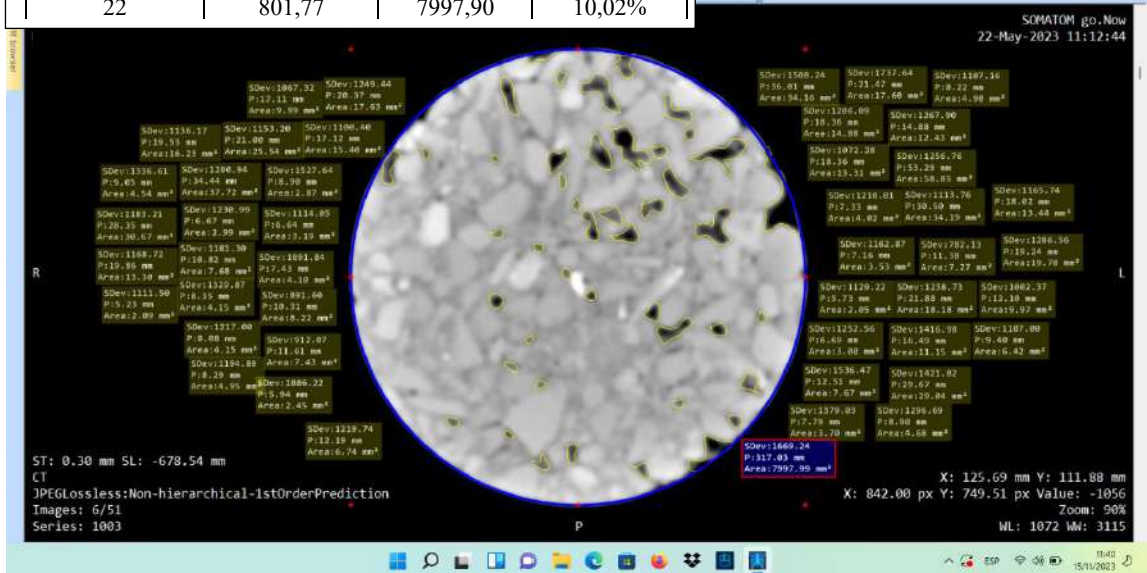
22-May-2023 11:12:44

The screenshot displays a medical image segmentation application. On the left, a list of segmented regions is shown, each with a unique ID, area, and perimeter. The central panel shows a brain MRI slice with a segmented tumor region highlighted in red. The right panel provides detailed statistics for the segmented regions, including area, perimeter, and centroid. The bottom status bar indicates the image size as 1024 px x 1024 px and the measured size as 152 mm x 152 mm.

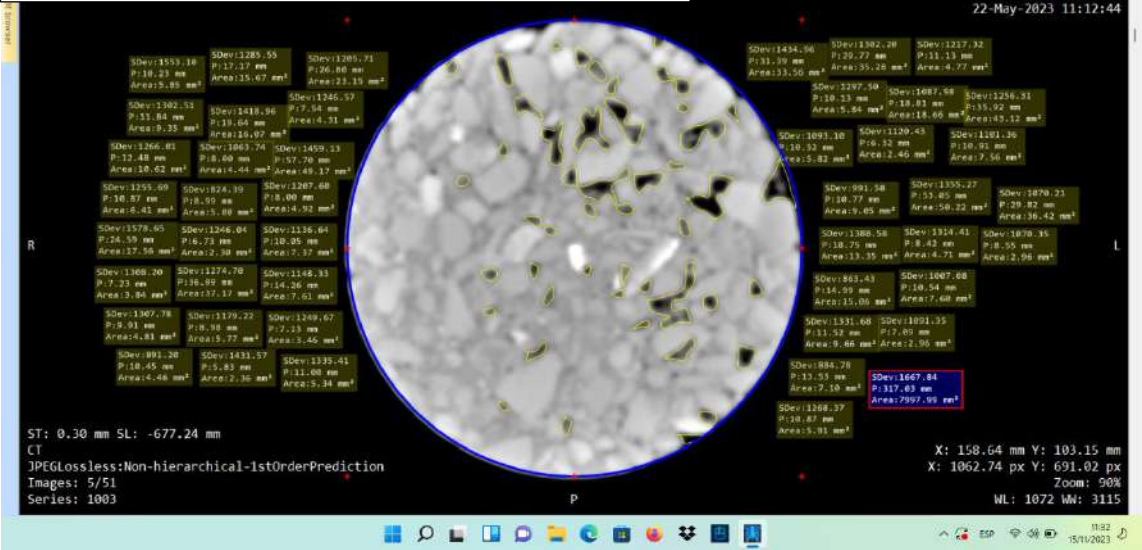
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
21	890,55	7997,99	11,13%



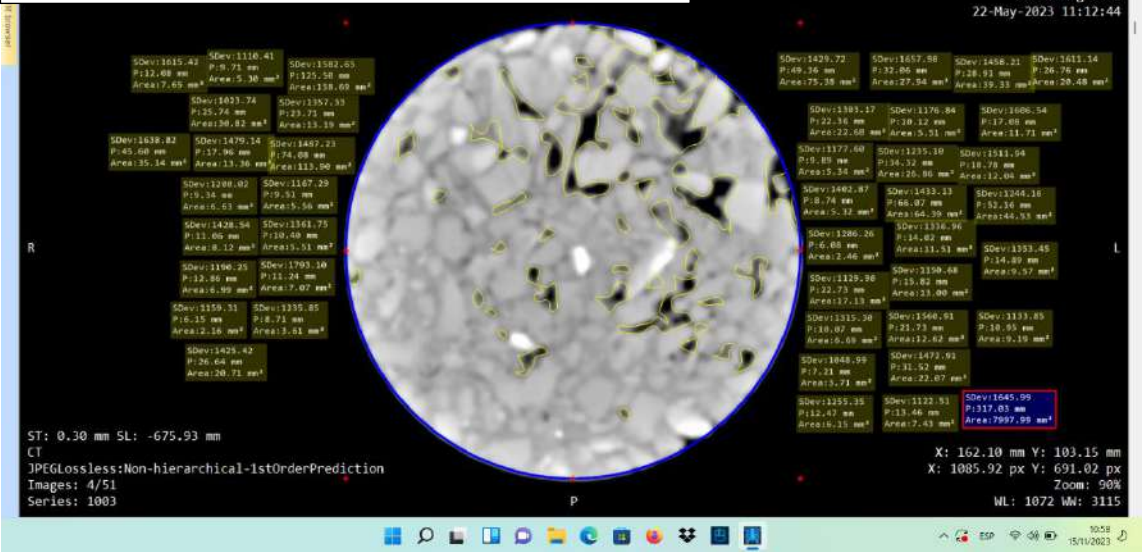
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
22	801,77	7997,90	10,02%



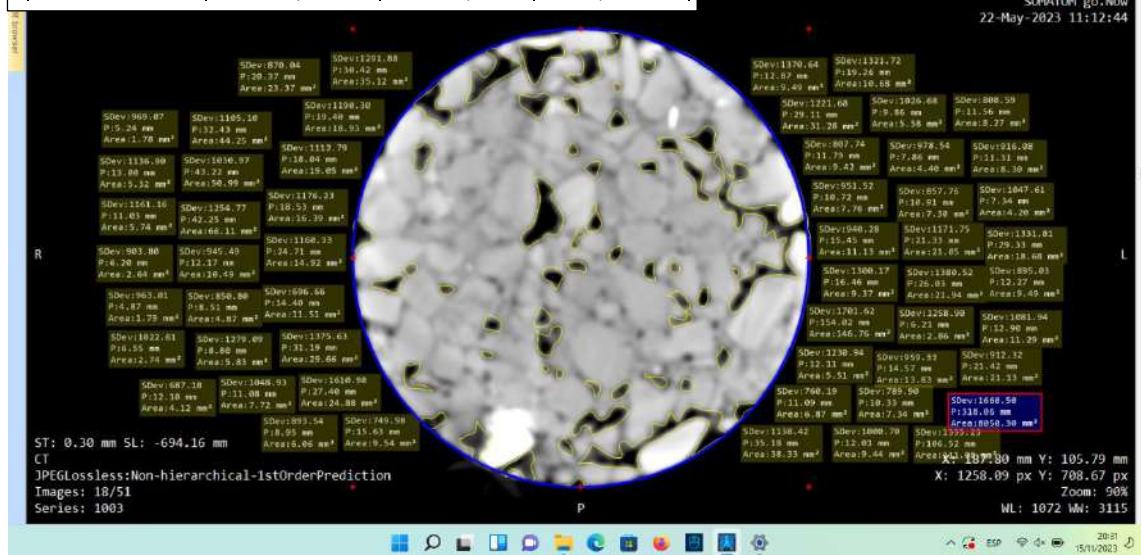
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
23	850,43	8050,00	10,56%



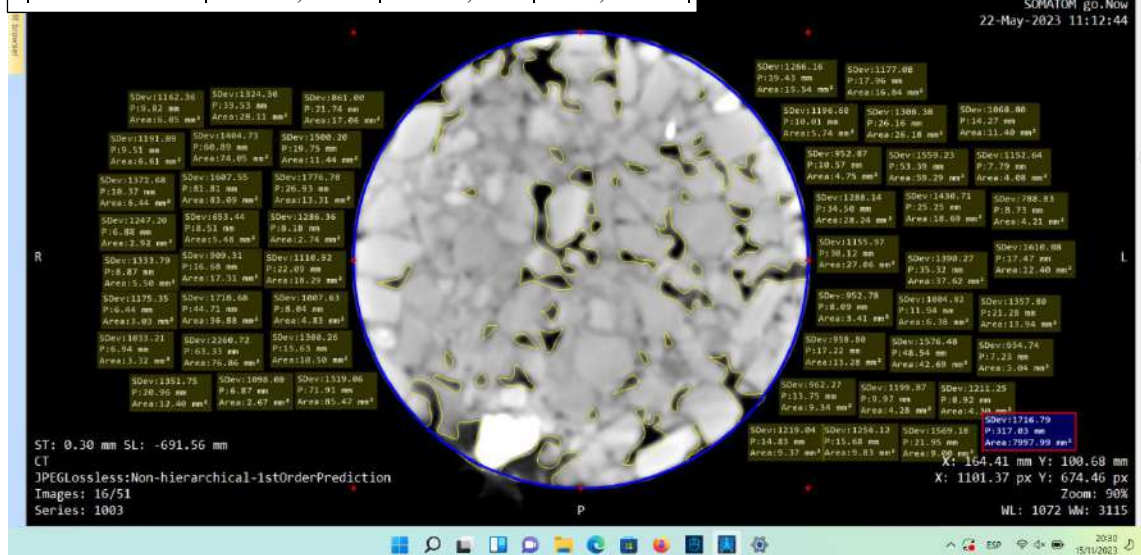
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
24	878,44	8050,30	10,91%



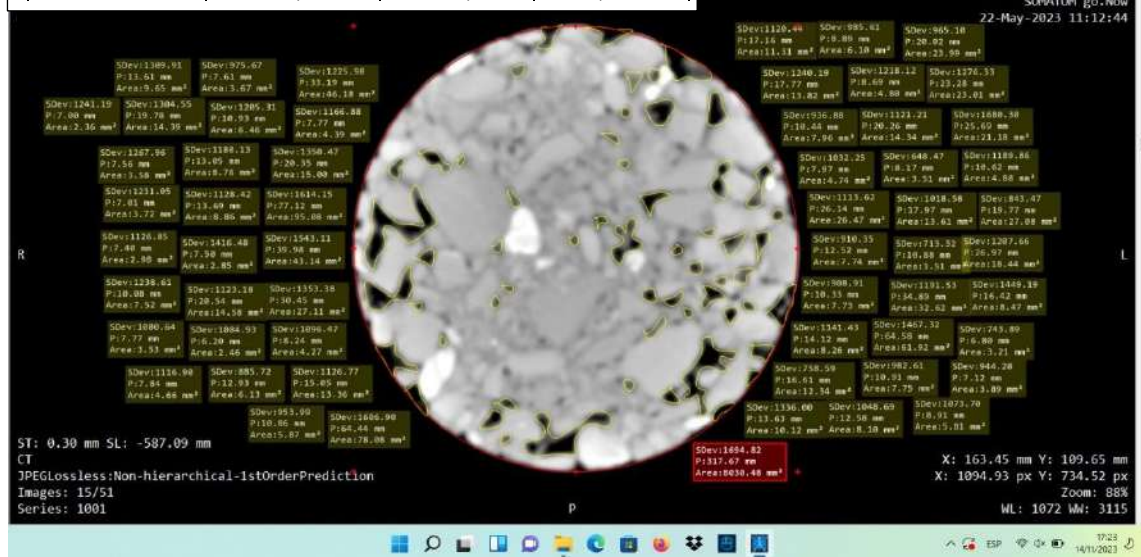
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
25	872,20	8050,00	10,83%



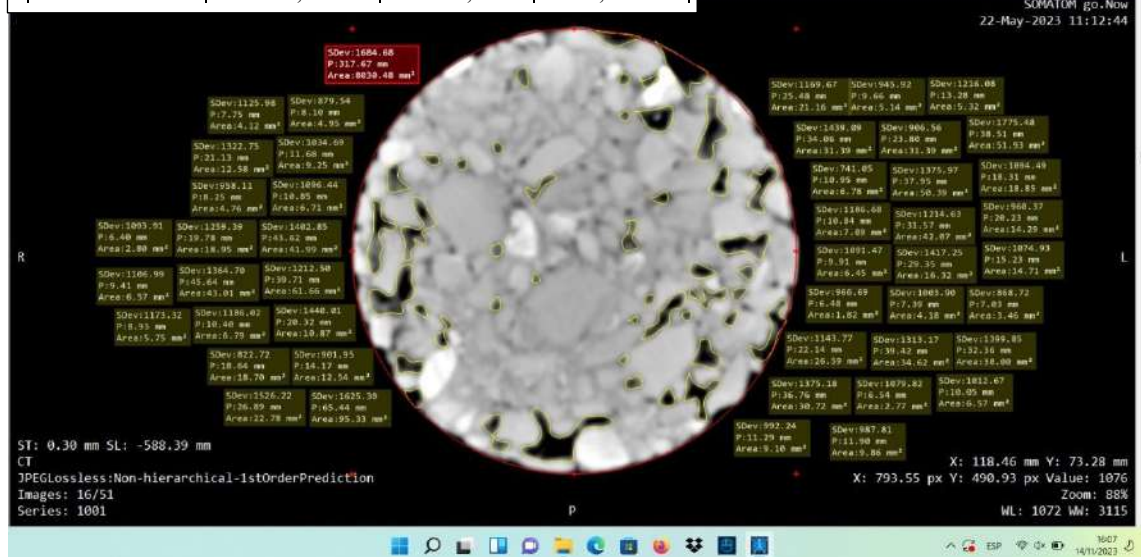
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
26	870,34	7997,00	10,88%

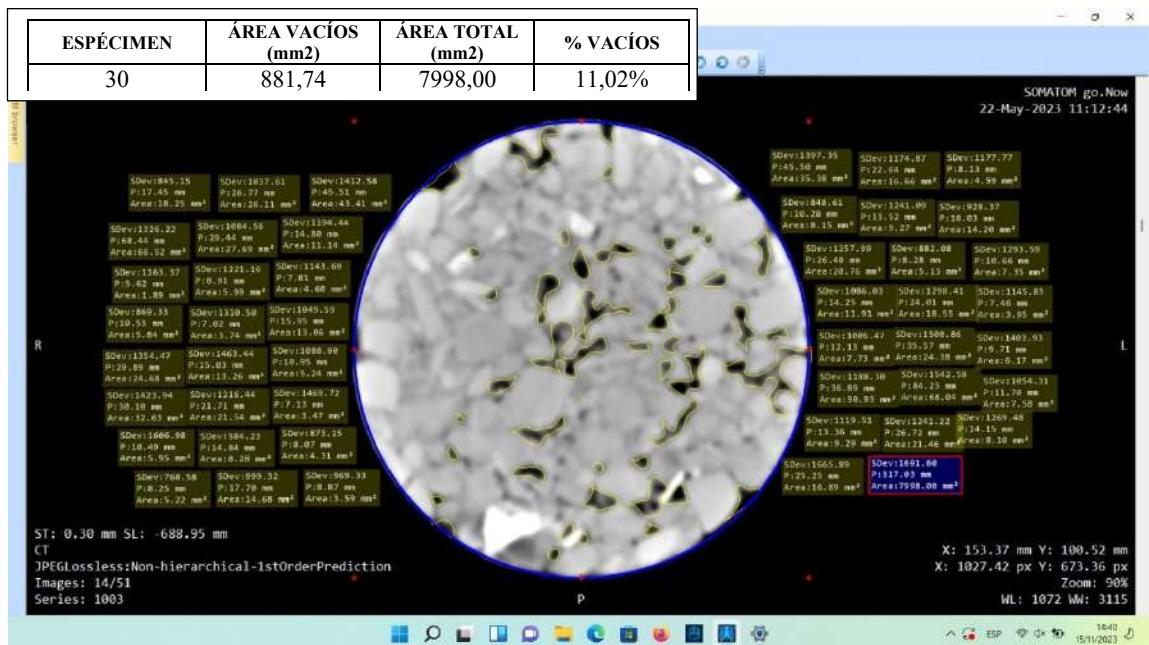
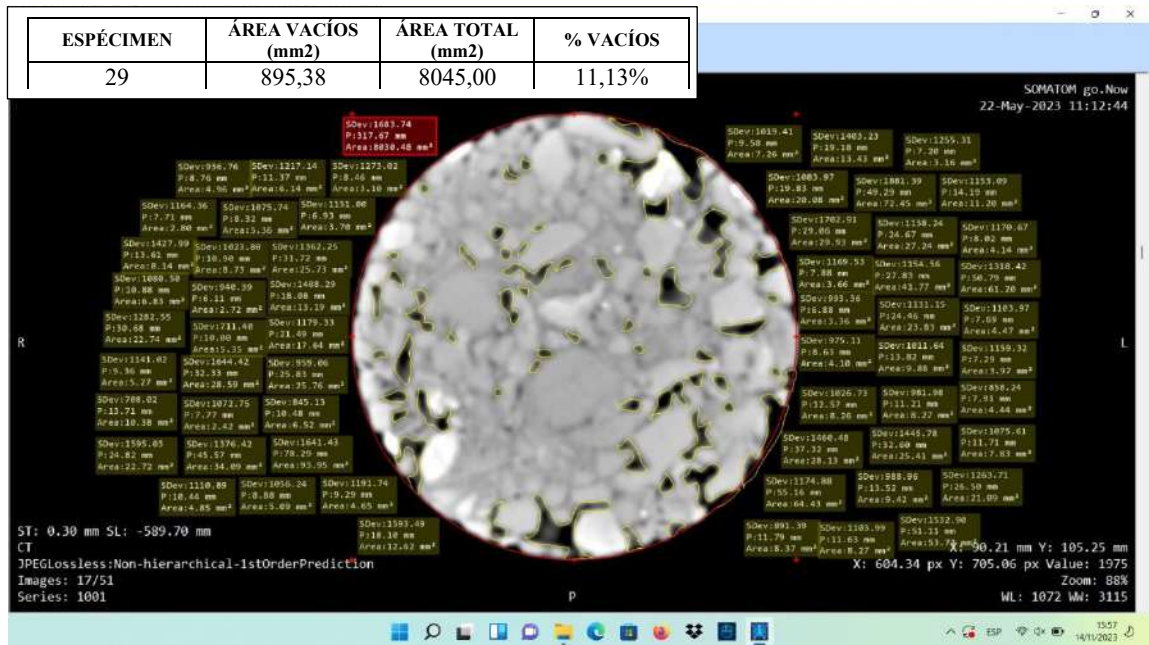


ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
27	850,11	8030,48	10,59%

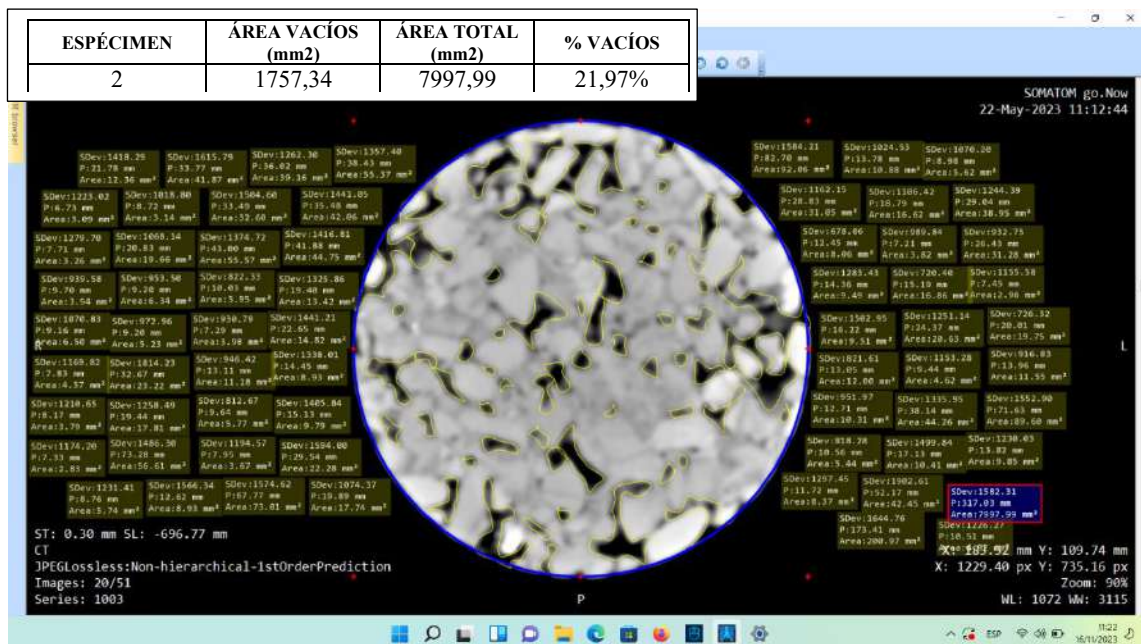
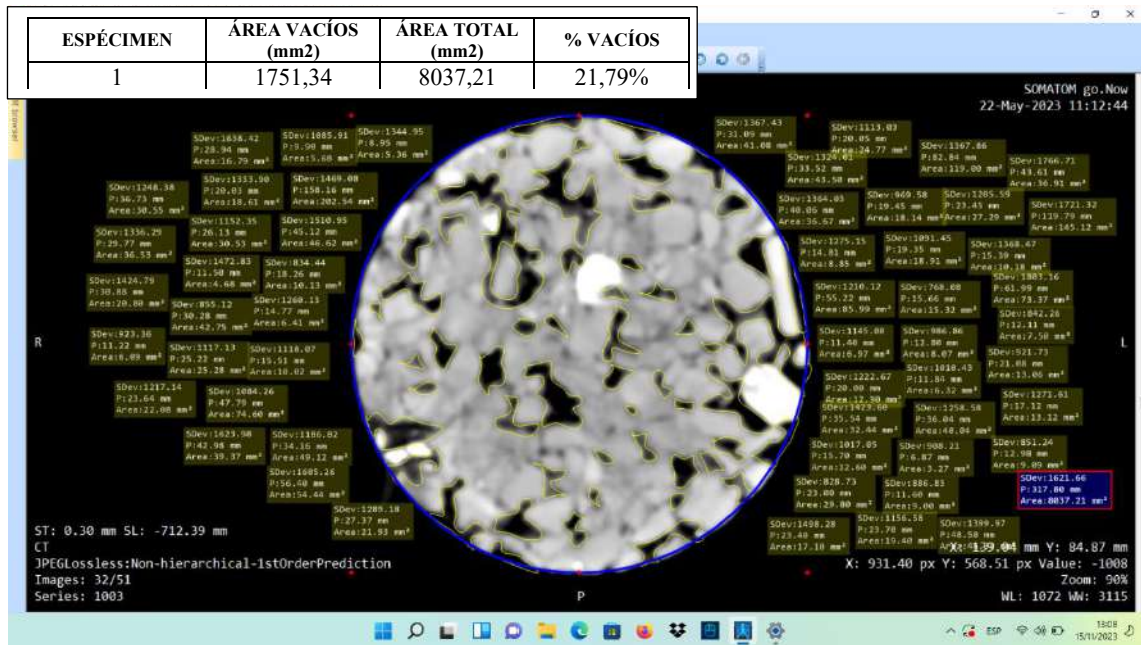


ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
28	875,23	8030,00	10,90%

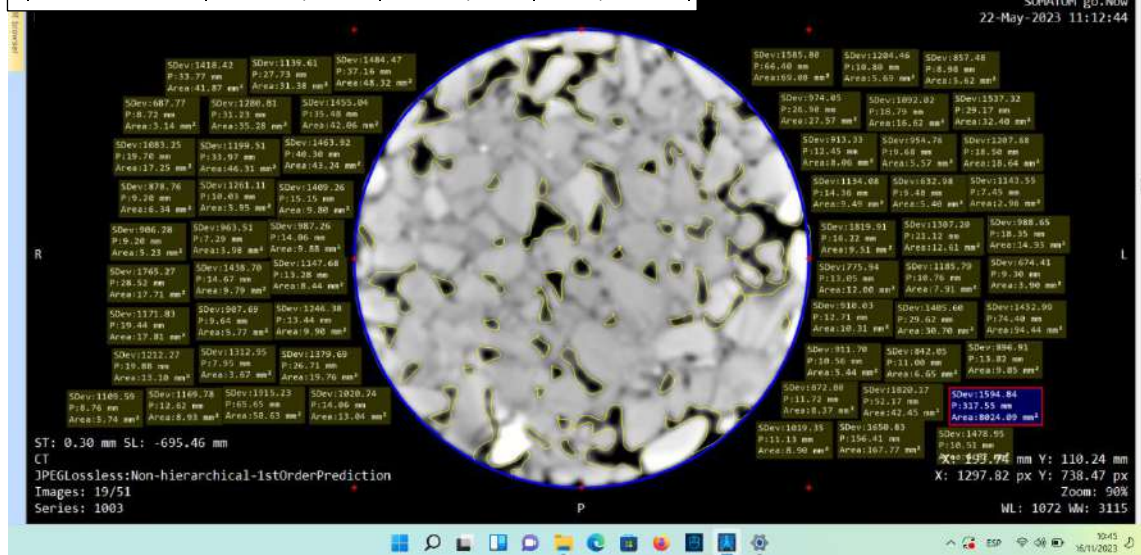




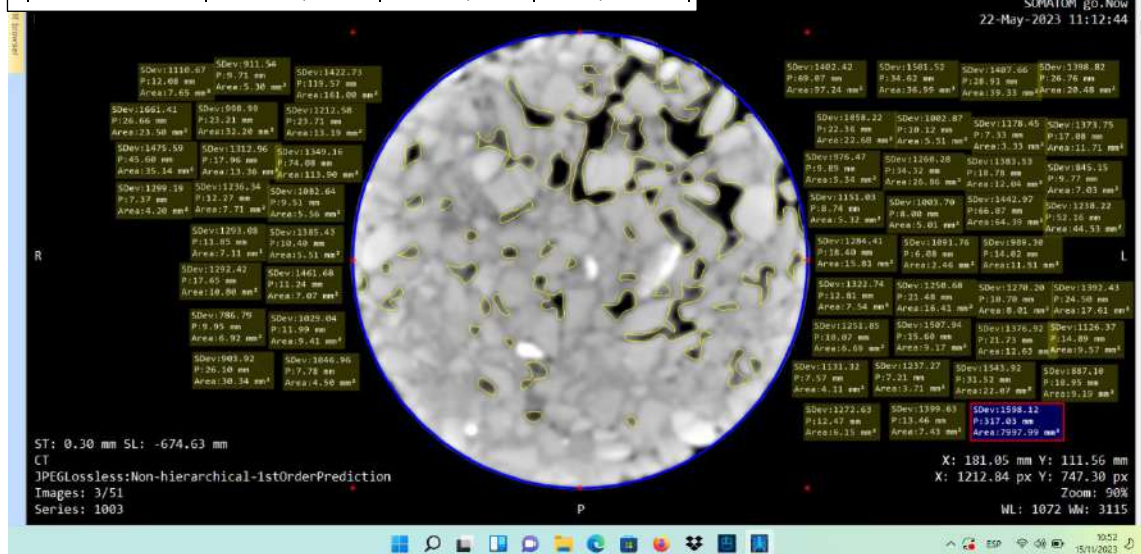
○ MEZCLAS ASFÁLTICAS DRENANTES O POROSAS

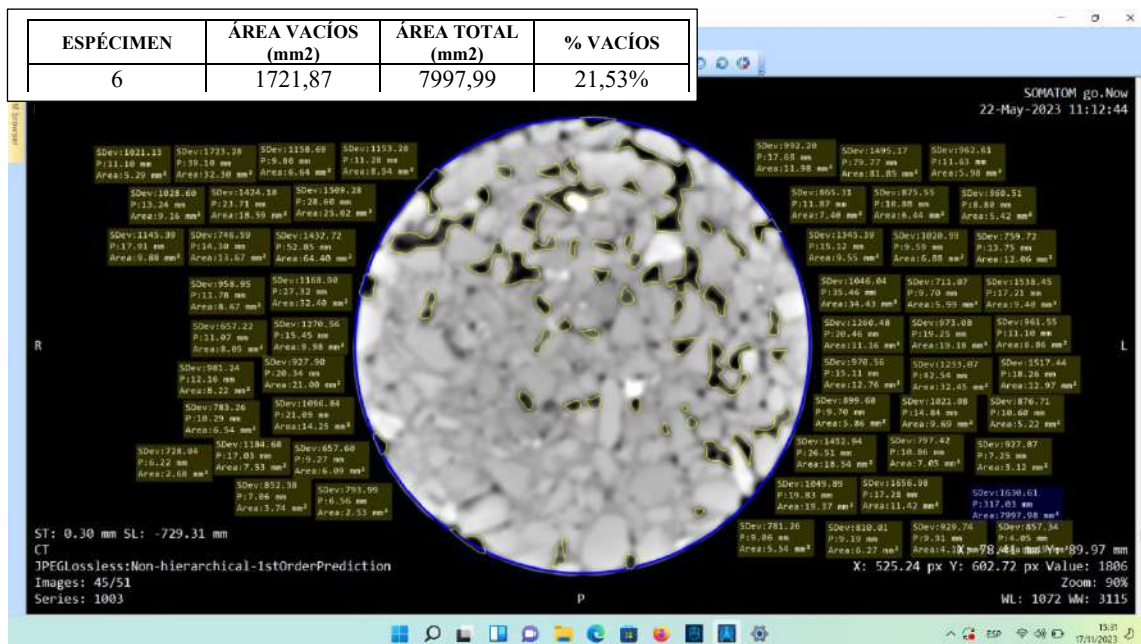
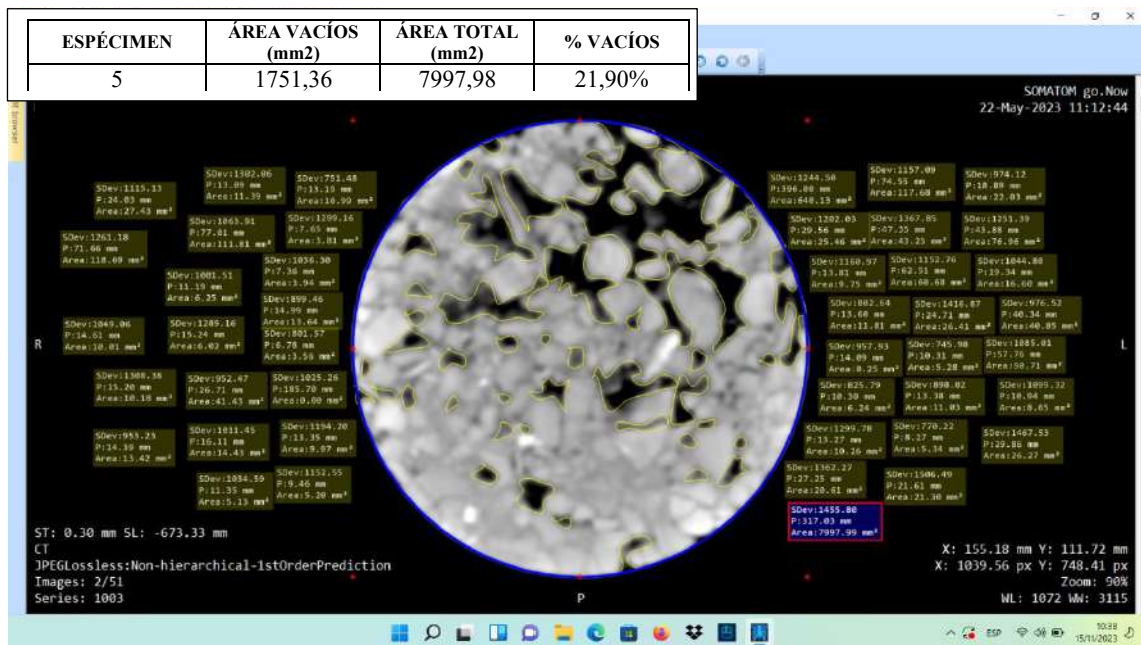


ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
3	1745,43	8024,09	21,75%

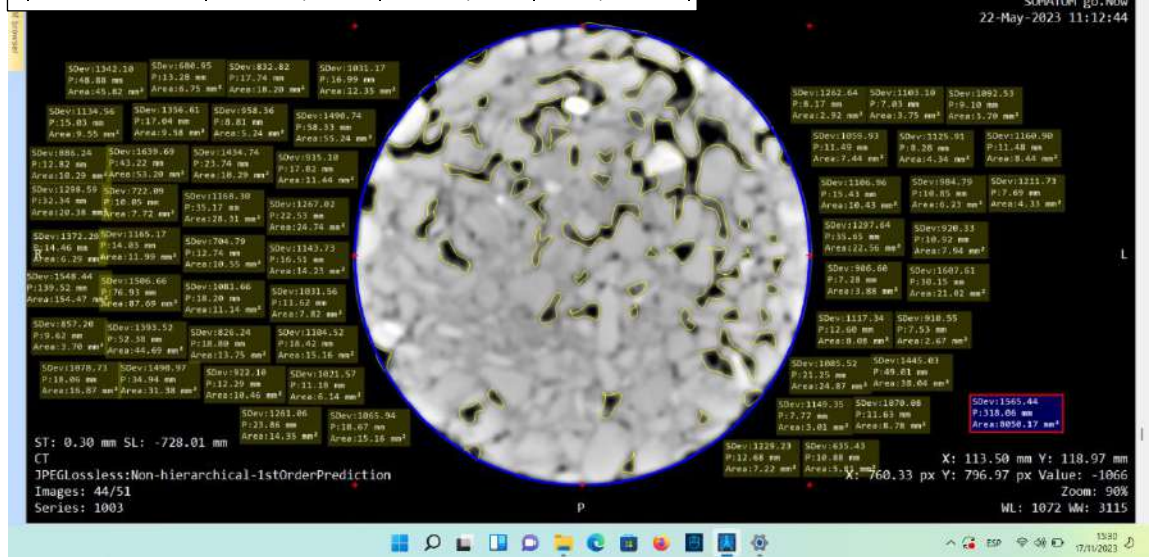


ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
4	1740,31	7997,99	21,76%

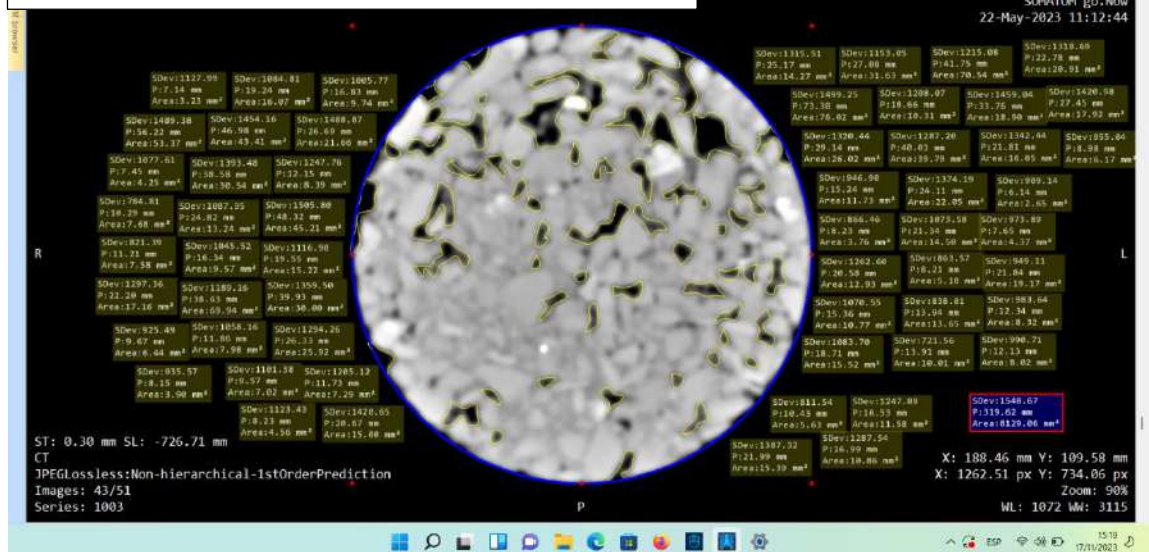




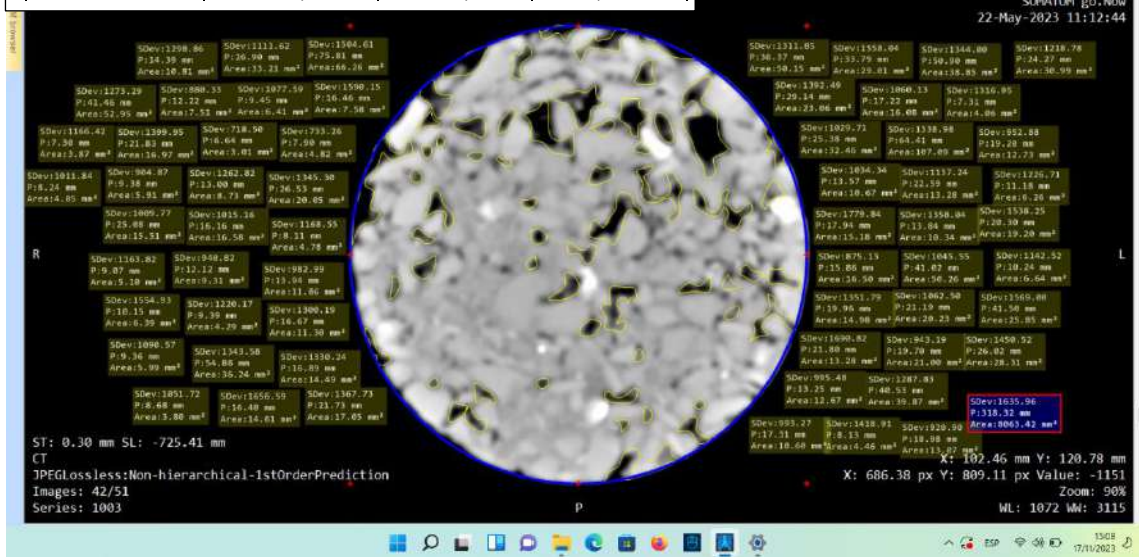
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
7	1735,77	8050,17	21,56%



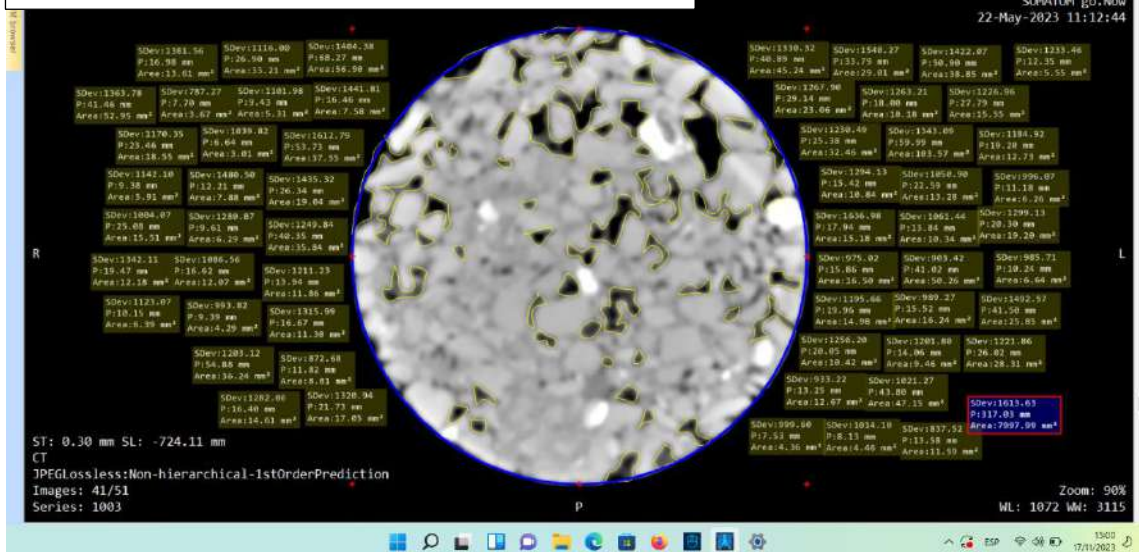
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
8	1730,66	8129,06	21,29%

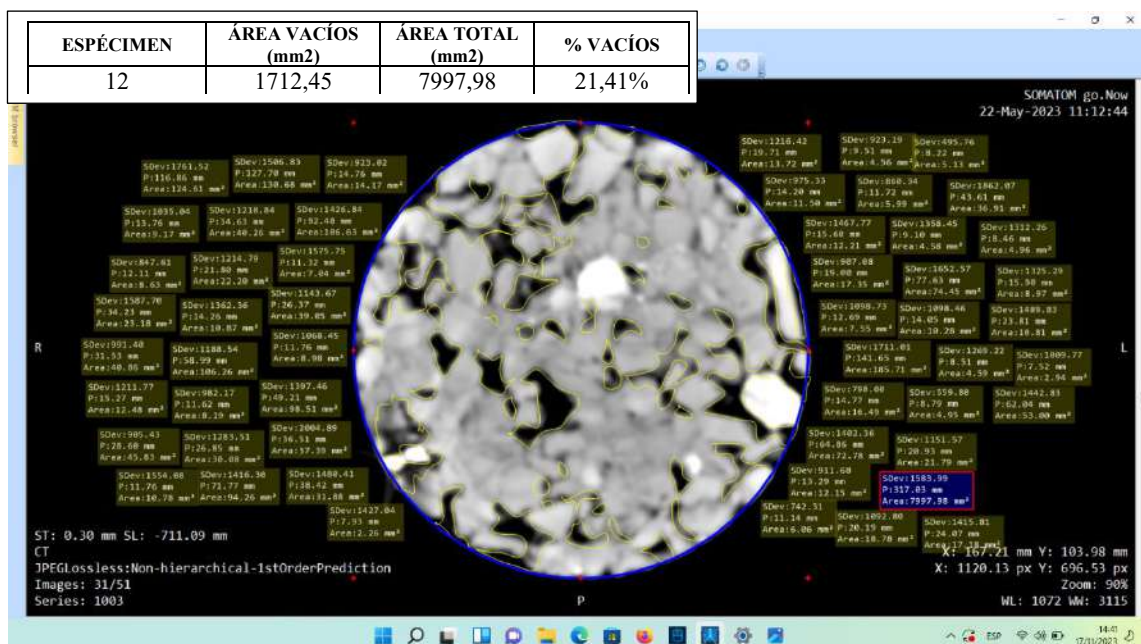
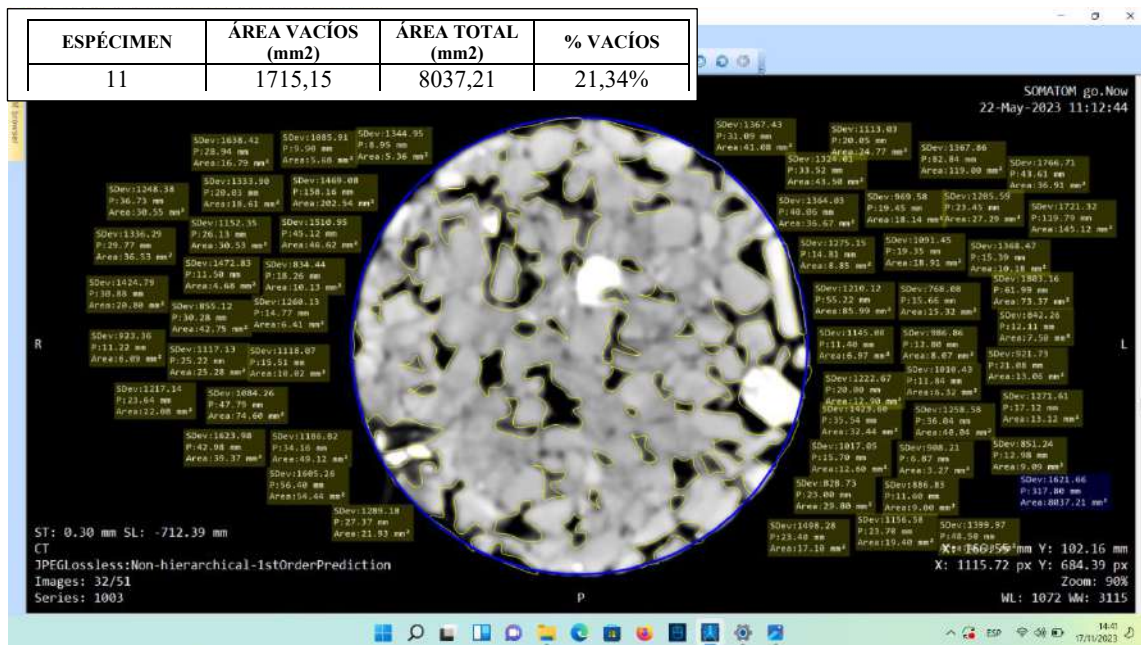


ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
9	1747,23	8063,42	21,67%

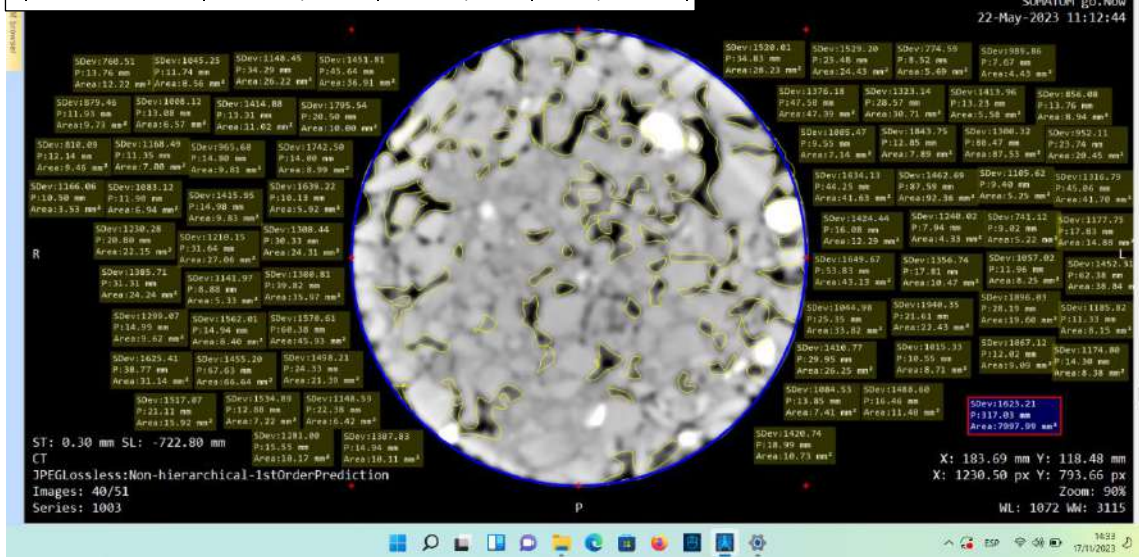


ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
10	1733,22	7997,99	21,67%

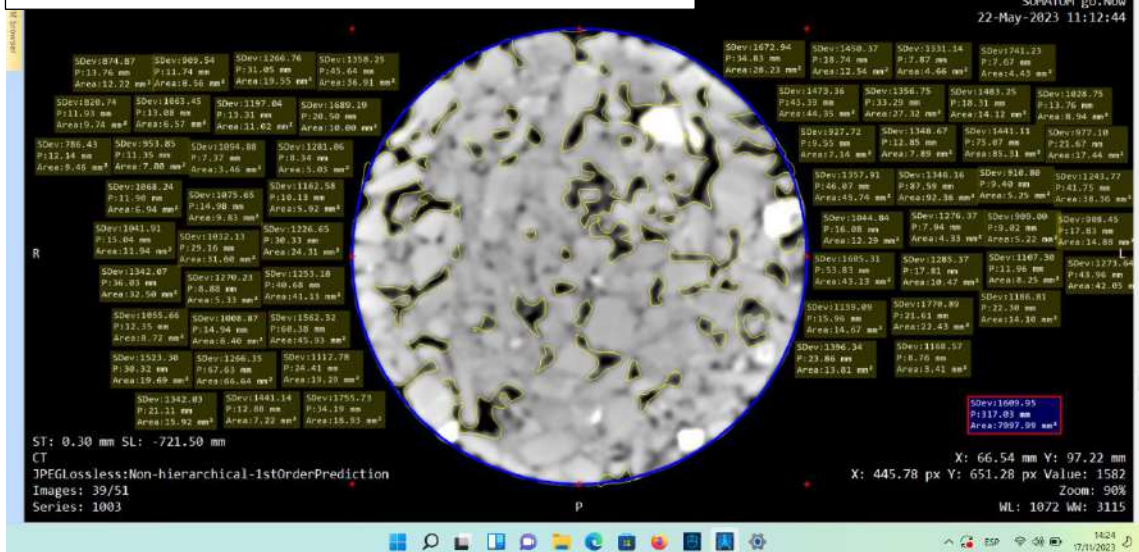




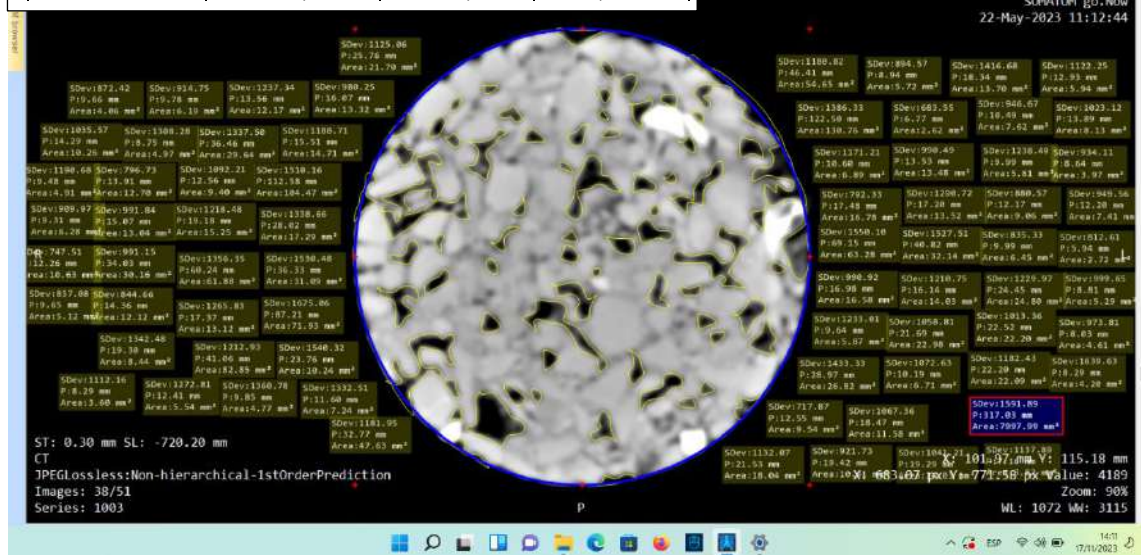
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
13	1687,34	7997,99	21,10%



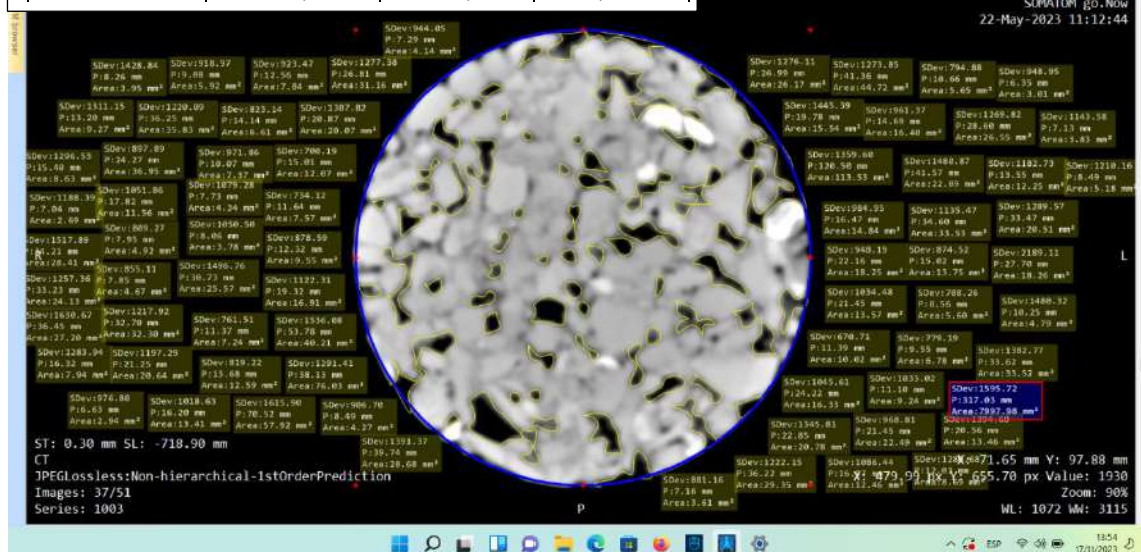
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
14	1745,88	7997,98	21,83%



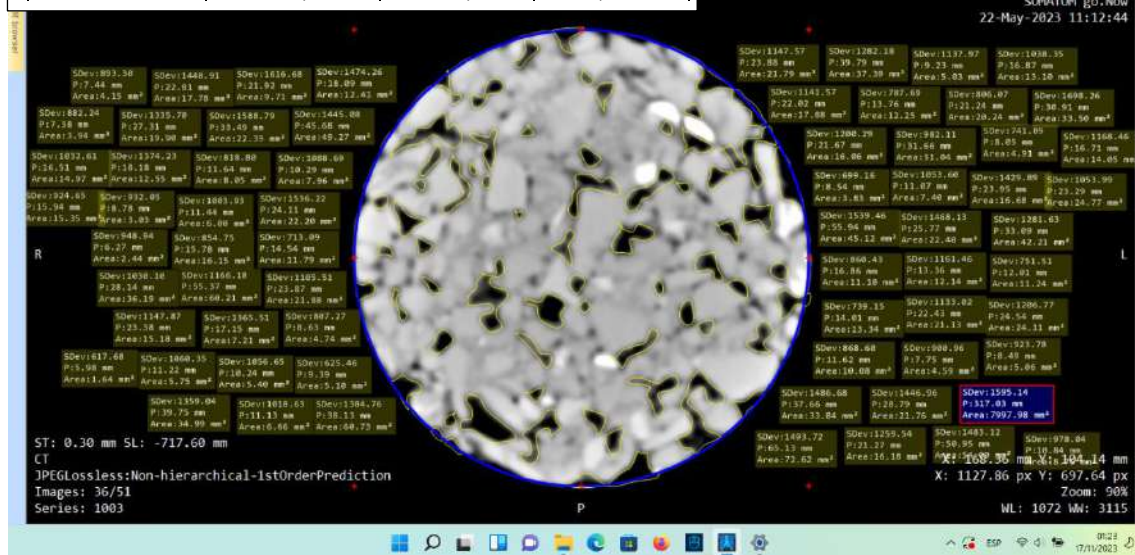
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
15	1781,87	7997,00	22,28%



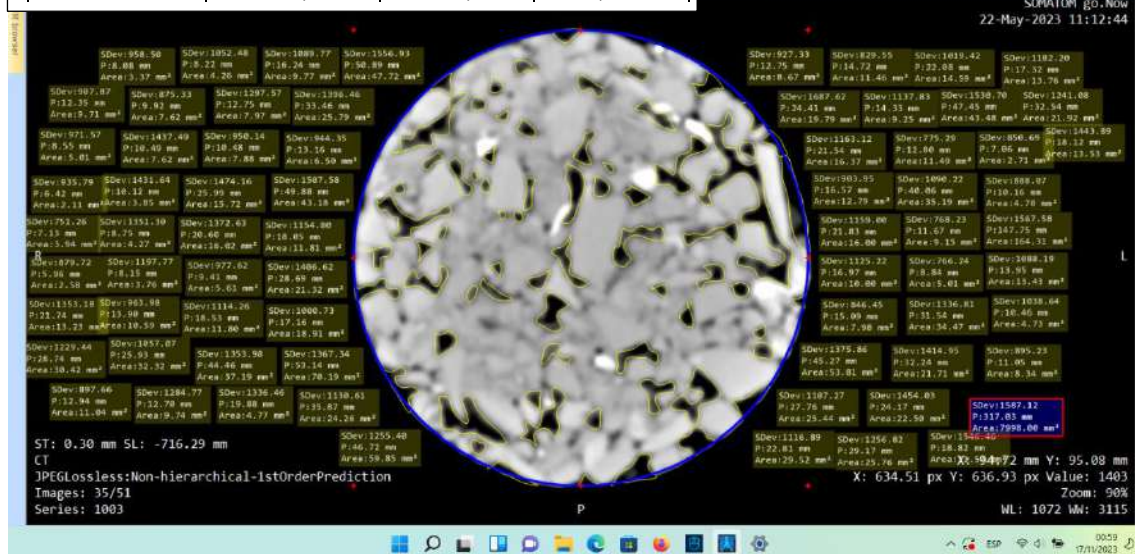
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
16	1788,62	8000,54	22,36%



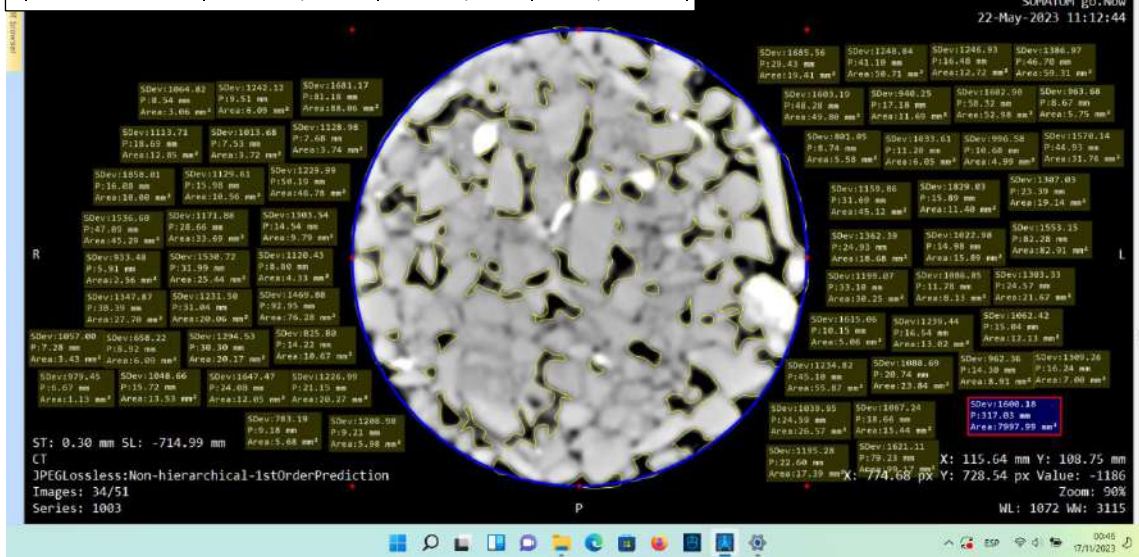
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
17	1749,91	8015,60	21,83%



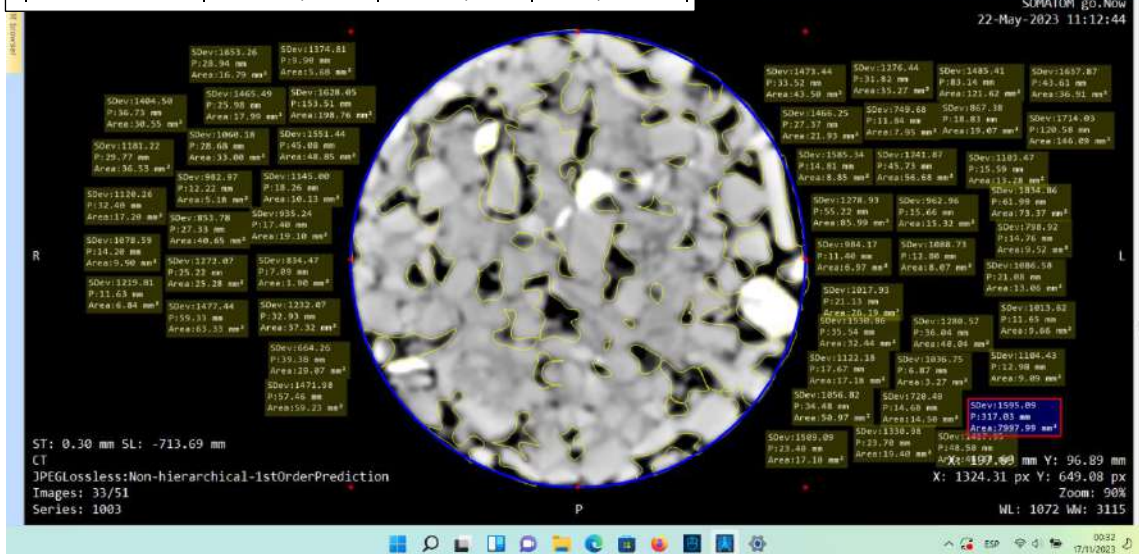
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
18	1735,83	7998,00	21,70%



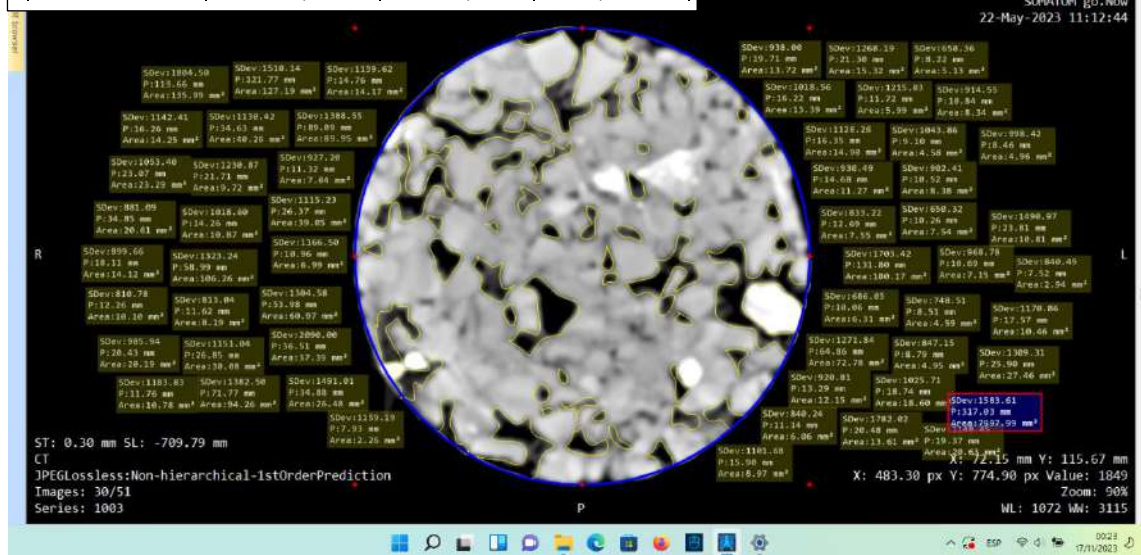
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
19	1733,22	7997,89	21,67%



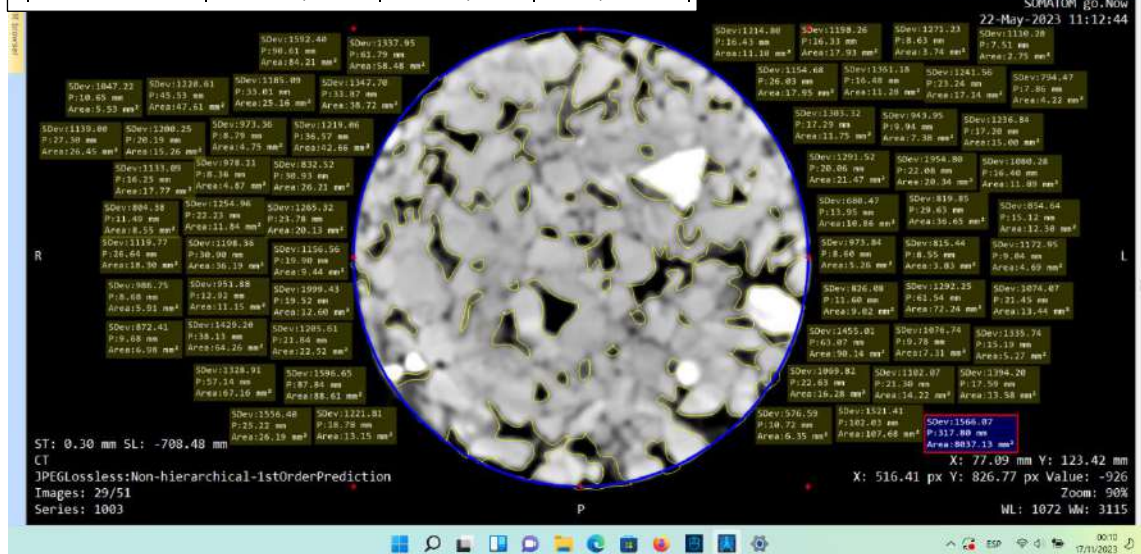
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
20	1743,66	7997,99	21,80%



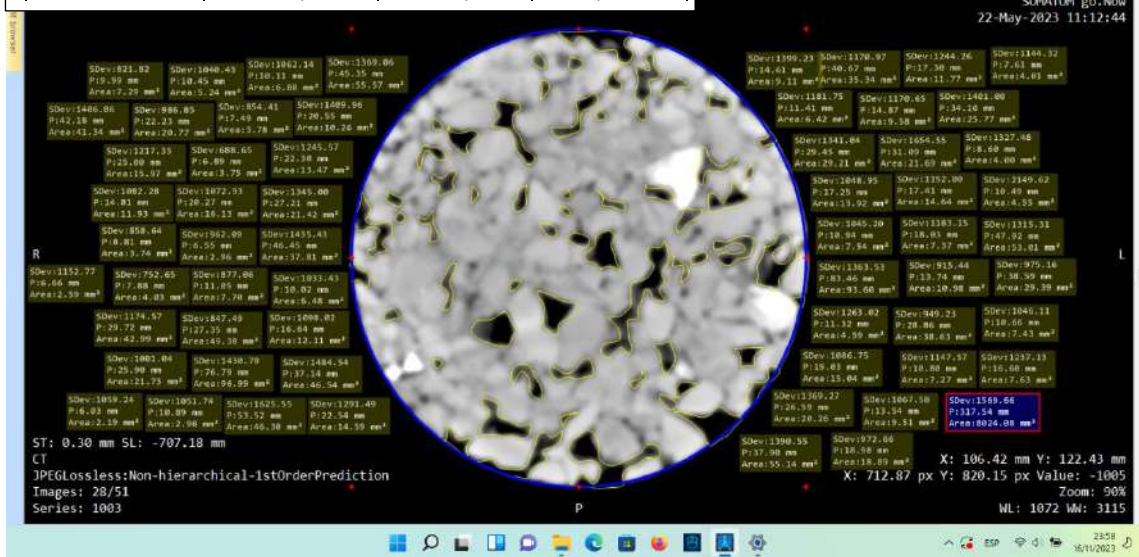
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
21	1717,60	7997,99	21,48%



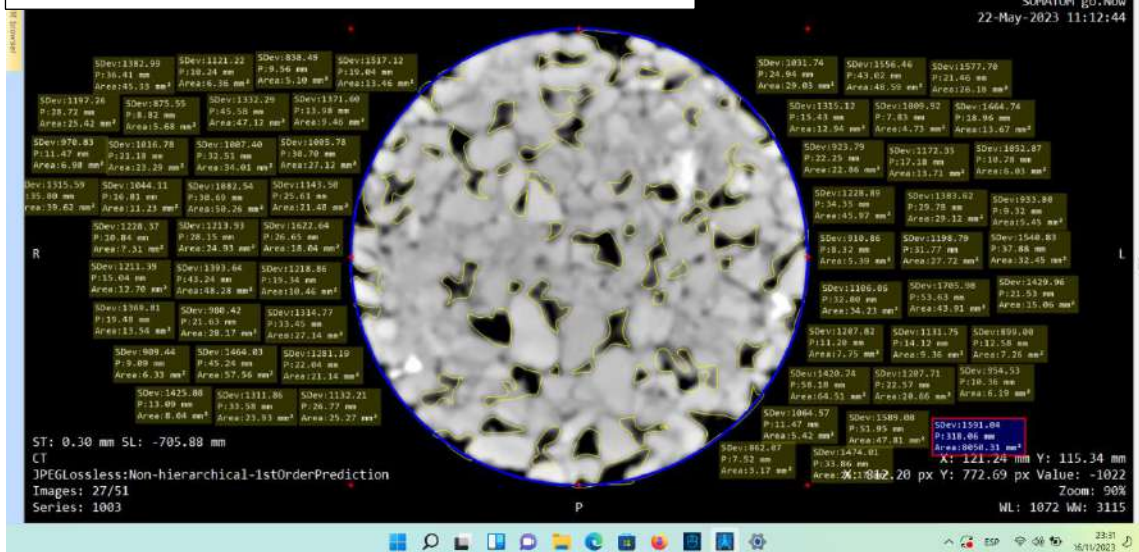
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
22	1718,90	8037,13	21,39%



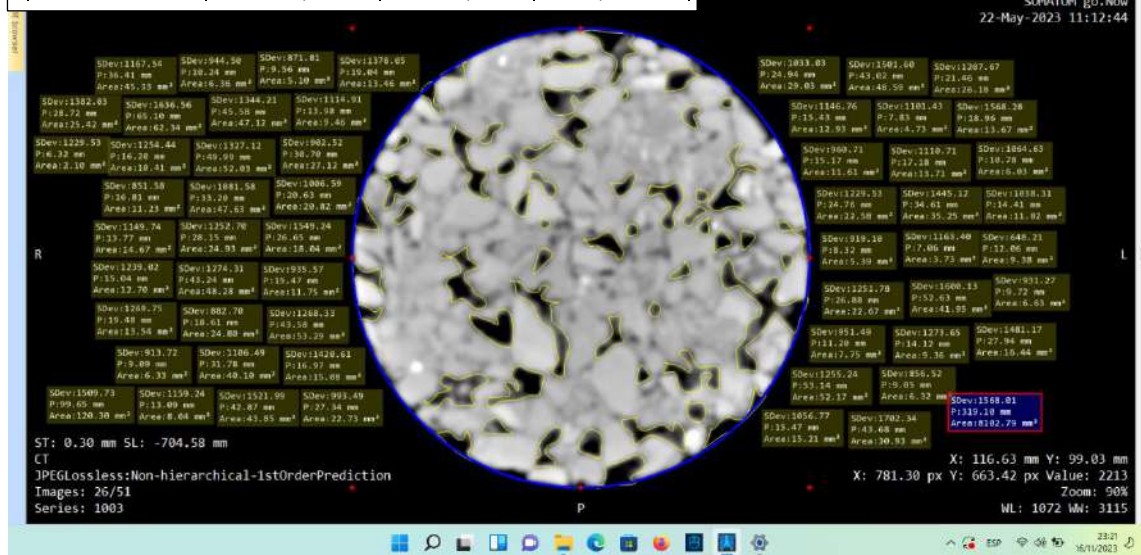
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
23	1720,20	8024,08	21,44%



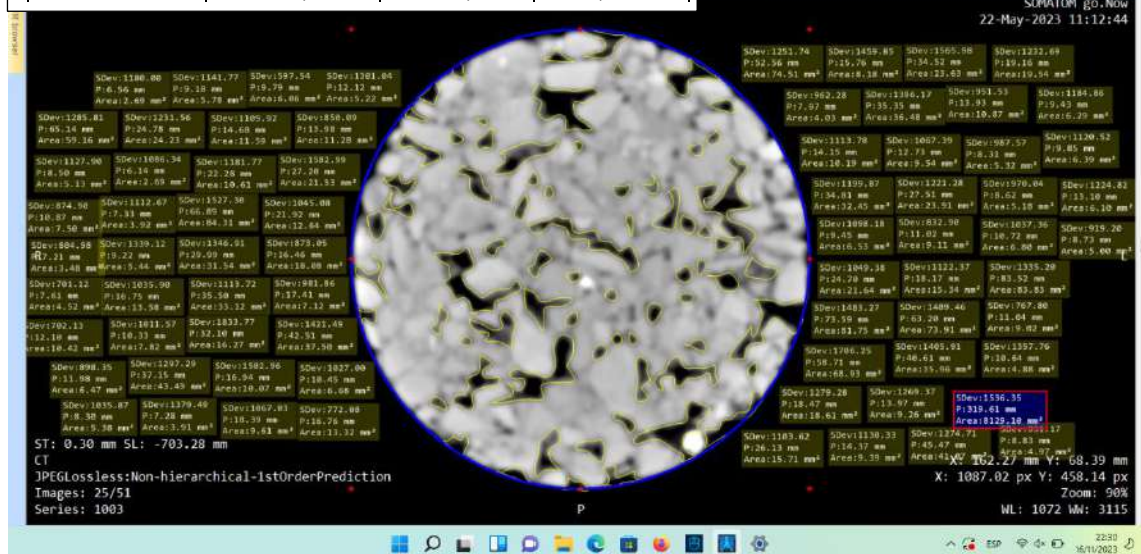
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
24	1755,34	8050,31	21,80%



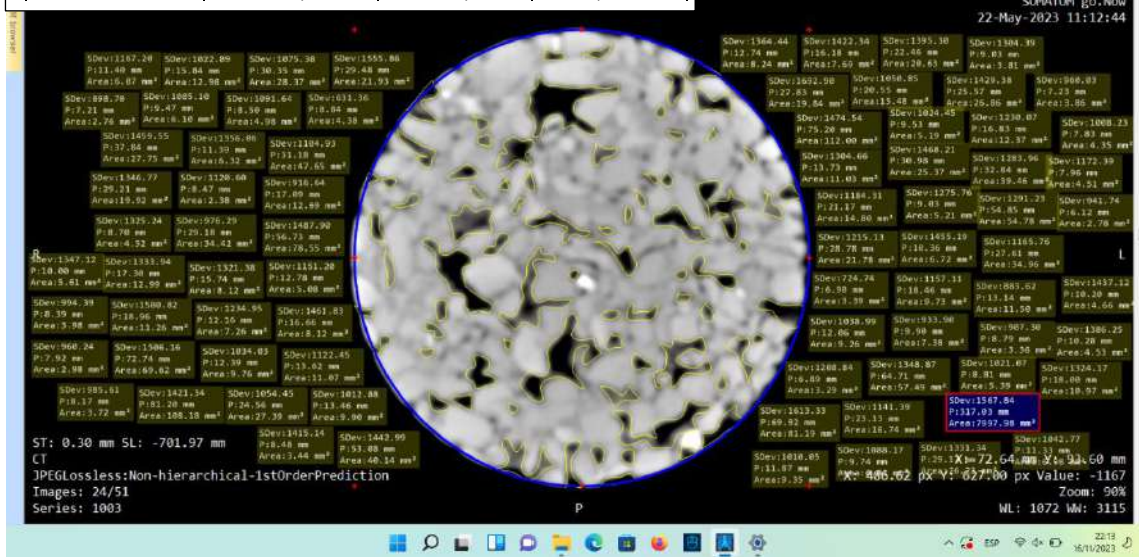
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
25	1722,80	8102,79	21,26%



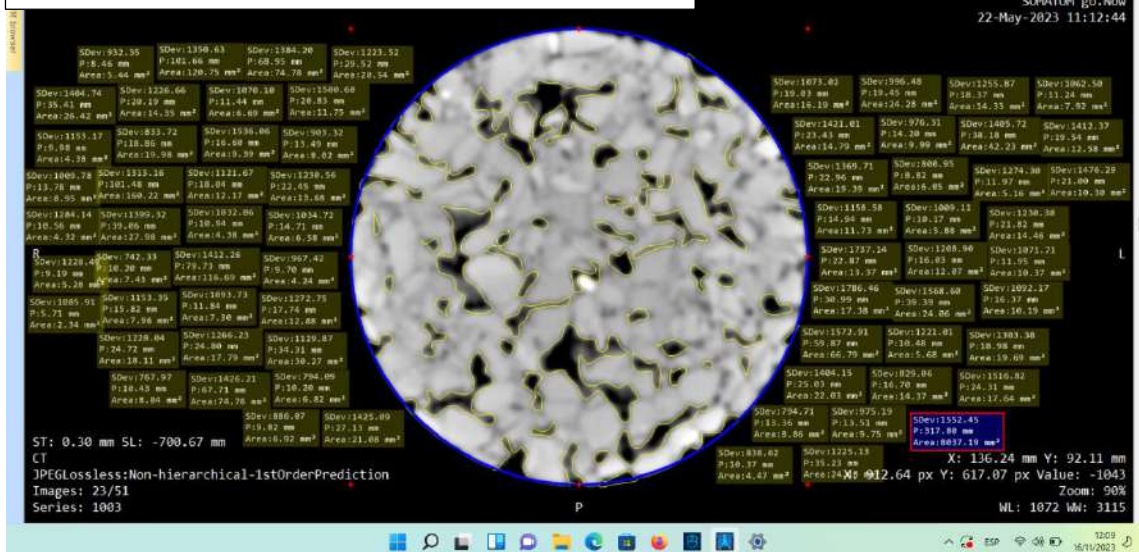
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
26	1724,11	8129,10	21,21%



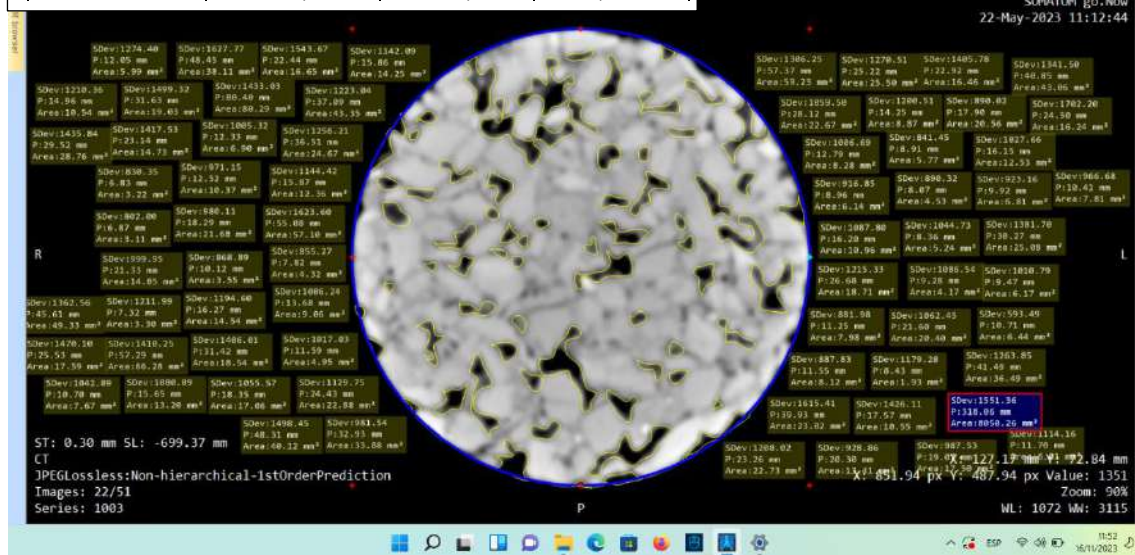
ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
27	1774,33	7997,98	22,18%



ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
28	1687,59	8037,19	21,00%



ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
29	1789,71	8050,26	22,23%



ESPÉCIMEN	ÁREA VACÍOS (mm2)	ÁREA TOTAL (mm2)	% VACÍOS
30	1750,88	7997,98	21,89%

