Supplementary Information

A Copper-Based Coating for the Control of Airborne Viable Bacteria in a Prison Environment

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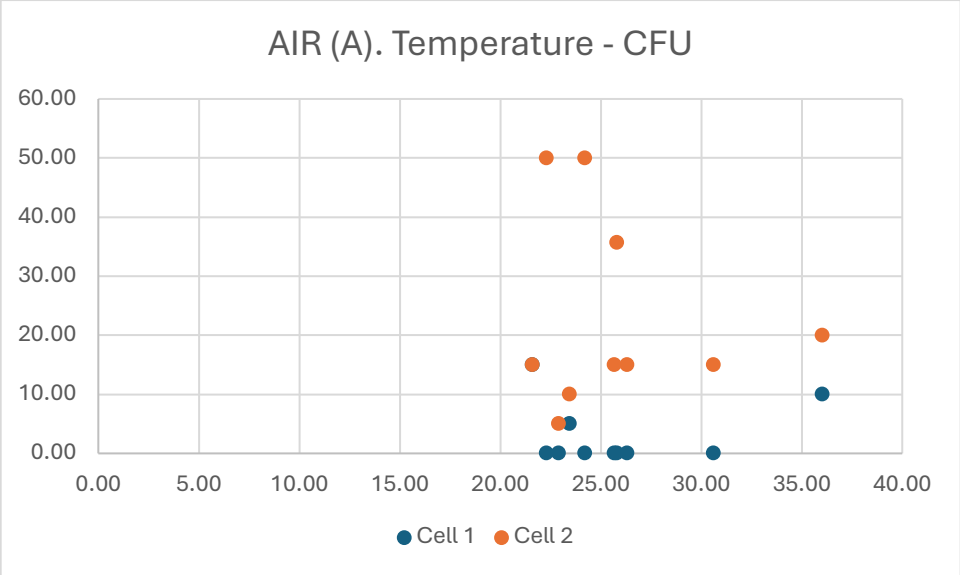
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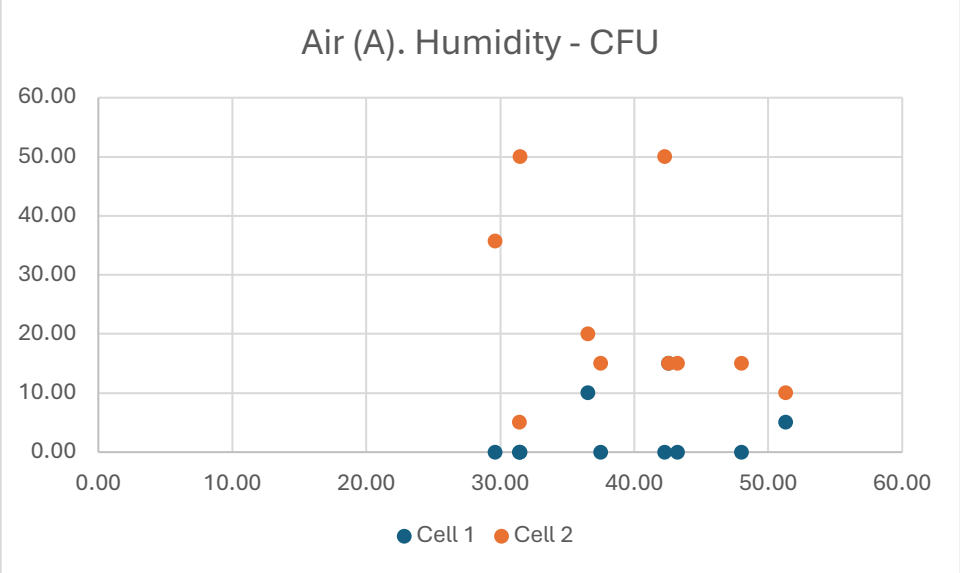
Supplementary Table S1

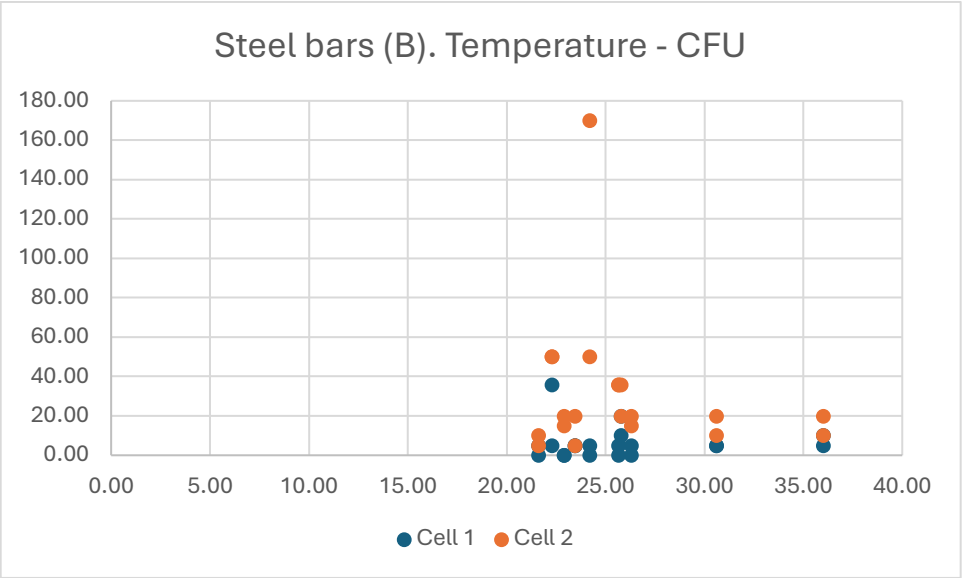
sample#	Date	Sample type	Tº (C)	Cell 1	Cell 2	Sample type	Humidity	Cell 1	Cell 2
9	13-09-22	A	21.60	15.00	15.00	A	42.55	15.00	15.00
18	30-09-22	A	23.45	5.00	10.00	A	51.30	5.00	10.00
27	12-10-22	A	22.30	0.00	49.98	A	31.50	0.00	49.98
36	26-10-22	A	25.80	0.00	35.70	A	29.60	0.00	35.70
45	09-11-22	A	25.65	0.00	15.00	A	37.50	0.00	15.00
54	23-11-22	A	24.20	0.00	49.98	A	42.25	0.00	49.98
63	28-11-22	A	26.30	0.00	15.00	A	43.25	0.00	15.00
72	07-12-22	A	22.90	0.00	5.00	A	31.45	0.00	5.00
81	11-01-23	A	30.60	0.00	15.00	A	48.00	0.00	15.00
90	25-01-23	A	36.00	10.00	20.00	A	36.55	10.00	20.00
7	13-09-22	B	21.60	5.00	10.00	B	42.55	5.00	10.00
8	13-09-22	B	21.60	0.00	5.00	B	42.55	0.00	5.00
16	30-09-22	B	23.45	5.00	20.00	B	51.30	5.00	20.00
17	30-09-22	B	23.45	5.00	5.00	B	51.30	5.00	5.00
25	12-10-22	B	22.30	5.00	49.98	B	31.50	5.00	49.98
26	12-10-22	B	22.30	35.70	49.98	B	31.50	35.70	49.98
34	26-10-22	B	25.80	20.00	20.00	B	29.60	20.00	20.00
35	26-10-22	B	25.80	10.00	35.70	B	29.60	10.00	35.70
43	09-11-22	B	25.65	0.00	35.70	B	37.50	0.00	35.70
44	09-11-22	B	25.65	5.00	35.70	B	37.50	5.00	35.70
52	23-11-22	B	24.20	5.00	49.98	B	42.25	5.00	49.98
53	23-11-22	B	24.20	0.00	170.00	B	42.25	0.00	170.00
61	28-11-22	B	26.30	0.00	20.00	B	43.25	0.00	20.00
62	28-11-22	B	26.30	5.00	15.00	B	43.25	5.00	15.00
70	07-12-22	B	22.90	0.00	20.00	B	31.45	0.00	20.00
71	07-12-22	B	22.90	0.00	15.00	B	31.45	0.00	15.00
79	11-01-23	B	30.60	5.00	20.00	B	48.00	5.00	20.00
80	11-01-23	B	30.60	5.00	10.00	B	48.00	5.00	10.00
88	25-01-23	B	36.00	10.00	20.00	B	36.55	10.00	20.00
89	25-01-23	B	36.00	5.00	10.00	B	36.55	5.00	10.00
5	13-09-22	F	21.60	5.00	10.00	F	42.55	5.00	10.00
6	13-09-22	F	21.60	0.00	20.00	F	42.55	0.00	20.00
14	30-09-22	F	23.45	15.00	15.00	F	51.30	15.00	15.00
15	30-09-22	F	23.45	15.00	5.00	F	51.30	15.00	5.00
23	12-10-22	F	22.30	15.00	35.70	F	31.50	15.00	35.70
24	12-10-22	F	22.30	0.00	35.70	F	31.50	0.00	35.70
32	26-10-22	F	25.80	0.00	20.00	F	29.60	0.00	20.00
33	26-10-22	F	25.80	0.00	35.70	F	29.60	0.00	35.70
41	09-11-22	F	25.65	20.00	49.98	F	37.50	20.00	49.98
42	09-11-22	F	25.65	10.00	66.64	F	37.50	10.00	66.64

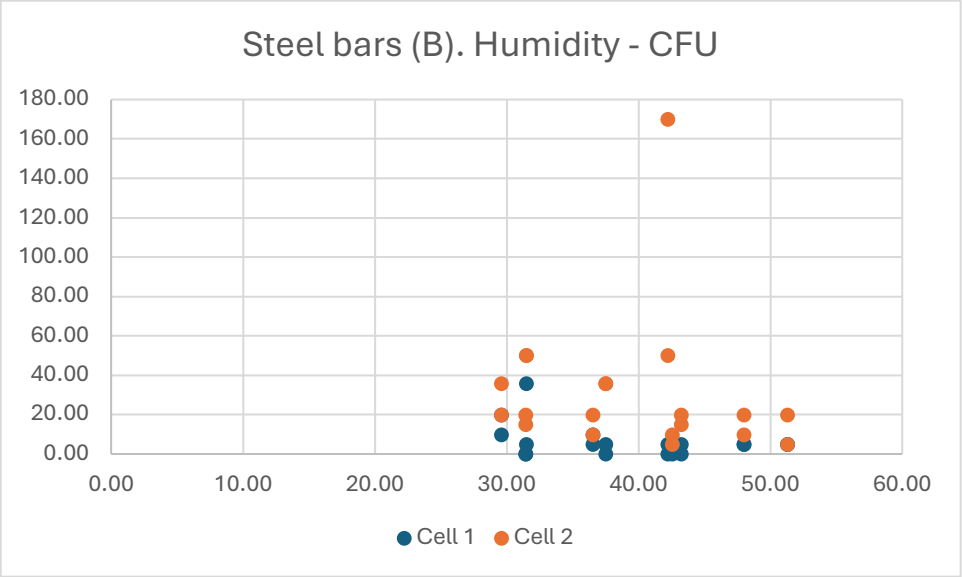
50	23-11-22	F	24.20	0.00	150.00	F	42.25	0.00	150.00
51	23-11-22	F	24.20	99.96	140.00	F	42.25	99.96	140.00
59	28-11-22	F	26.30	0.00	20.00	F	43.25	0.00	20.00
60	28-11-22	F	26.30	10.00	99.96	F	43.25	10.00	99.96
68	07-12-22	F	22.90	0.00	15.00	F	31.45	0.00	15.00
69	07-12-22	F	22.90	5.00	15.00	F	31.45	5.00	15.00
77	11-01-23	F	30.60	10.00	20.00	F	48.00	10.00	20.00
78	11-01-23	F	30.60	0.00	49.98	F	48.00	0.00	49.98
86	25-01-23	F	36.00	35.70	49.98	F	36.55	35.70	49.98
87	25-01-23	F	36.00	5.00	49.98	F	36.55	5.00	49.98
1	13-09-22	S	21.60	5.00	0.00	S	42.55	5.00	0.00
2	13-09-22	S	21.60	35.70	5.00	S	42.55	35.70	5.00
10	30-09-22	S	23.45	20.00	42.84	S	51.30	20.00	42.84
11	30-09-22	S	23.45	5.00	49.98	S	51.30	5.00	49.98
19	12-10-22	S	22.30	0.00	42.84	S	31.50	0.00	42.84
20	12-10-22	S	22.30	0.00	49.98	S	31.50	0.00	49.98
28	26-10-22	S	25.80	0.00	10.00	S	29.60	0.00	10.00
29	26-10-22	S	25.80	0.00	15.00	S	29.60	0.00	15.00
37	09-11-22	S	25.65	5.00	20.00	S	37.50	5.00	20.00
38	09-11-22	S	25.65	0.00	35.70	S	37.50	0.00	35.70
46	23-11-22	S	24.20	20.00	66.64	S	42.25	20.00	66.64
47	23-11-22	S	24.20	49.98	83.30	S	42.25	49.98	83.30
55	28-11-22	S	26.30	0.00	5.00	S	43.25	0.00	5.00
56	28-11-22	S	26.30	0.00	49.98	S	43.25	0.00	49.98
64	07-12-22	S	22.90	0.00	5.00	S	31.45	0.00	5.00
65	07-12-22	S	22.90	0.00	5.00	S	31.45	0.00	5.00
73	11-01-23	S	30.60	0.00	15.00	S	48.00	0.00	15.00
74	11-01-23	S	30.60	10.00	35.70	S	48.00	10.00	35.70
82	25-01-23	S	36.00	15.00	20.00	S	36.55	15.00	20.00
83	25-01-23	S	36.00	15.00	20.00	S	36.55	15.00	20.00
3	13-09-22	W	21.60	15.00	15.00	W	42.55	15.00	15.00
4	13-09-22	W	21.60	5.00	15.00	W	42.55	5.00	15.00
12	30-09-22	W	23.45	0.00	49.98	W	51.30	0.00	49.98
13	30-09-22	W	23.45	5.00	71.40	W	51.30	5.00	71.40
21	12-10-22	W	22.30	0.00	35.70	W	31.50	0.00	35.70
22	12-10-22	W	22.30	25.00	35.70	W	31.50	25.00	35.70
30	26-10-22	W	25.80	0.00	20.00	W	29.60	0.00	20.00
31	26-10-22	W	25.80	0.00	20.00	W	29.60	0.00	20.00
39	09-11-22	W	25.65	0.00	20.00	W	37.50	0.00	20.00
40	09-11-22	W	25.65	10.00	15.00	W	37.50	10.00	15.00
48	23-11-22	W	24.20	10.00	160.00	W	42.25	10.00	160.00

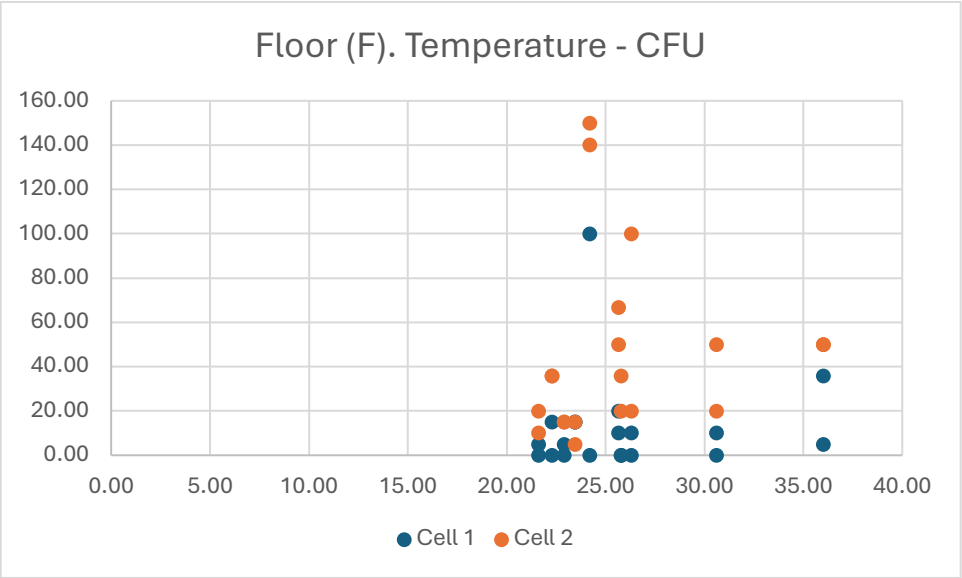
49	23-11-22	W	24.20	10.00	66.64	W	42.25	10.00	66.64
57	28-11-22	W	26.30	5.00	5.00	W	43.25	5.00	5.00
58	28-11-22	W	26.30	0.00	5.00	W	43.25	0.00	5.00
66	07-12-22	W	22.90	78.54	49.98	W	31.45	78.54	49.98
67	07-12-22	W	22.90	10.00	35.70	W	31.45	10.00	35.70
75	11-01-23	W	30.60	20.00	66.64	W	48.00	20.00	66.64
76	11-01-23	W	30.60	0.00	15.00	W	48.00	0.00	15.00
84	25-01-23	W	36.00	35.70	35.70	W	36.55	35.70	35.70
85	25-01-23	W	36.00	15.00	20.00	W	36.55	15.00	20.00

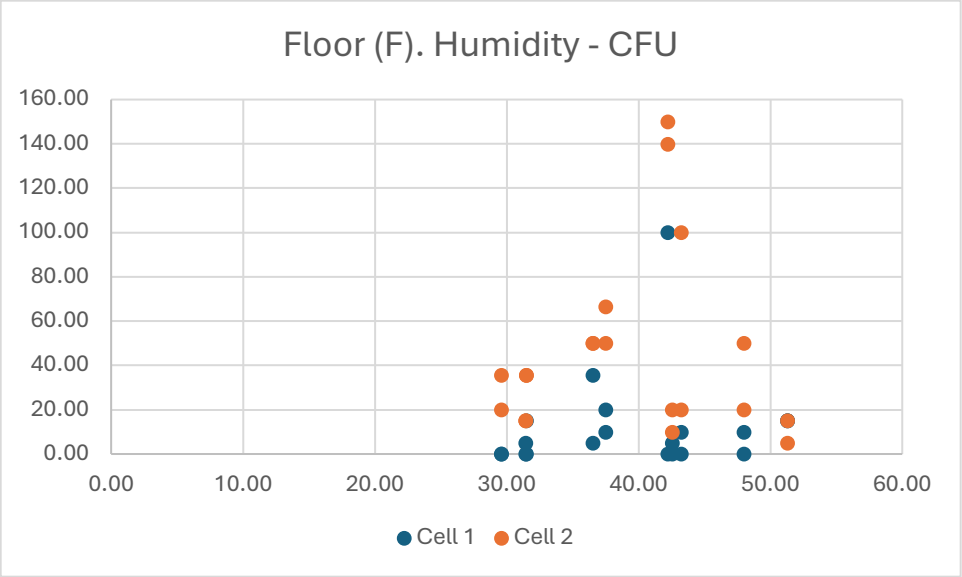


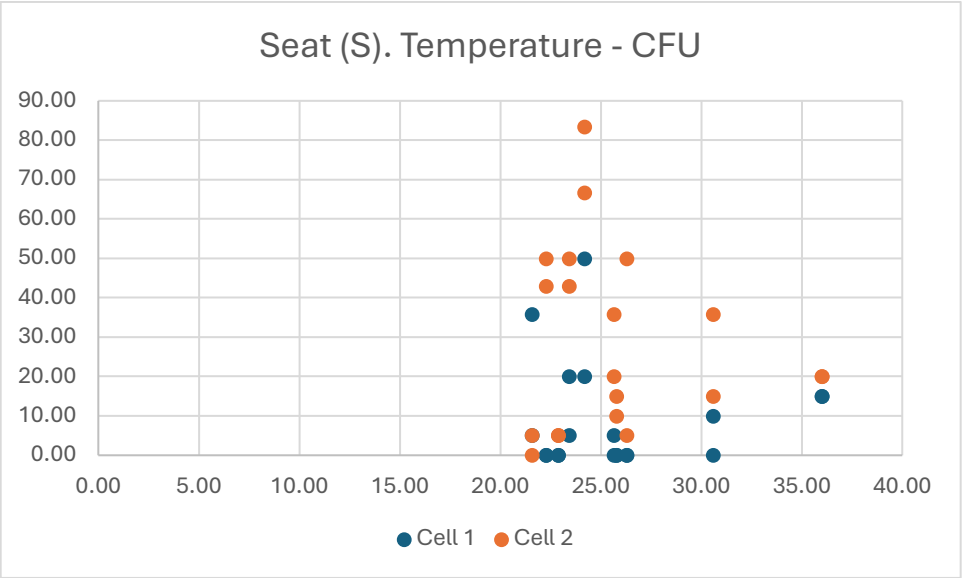


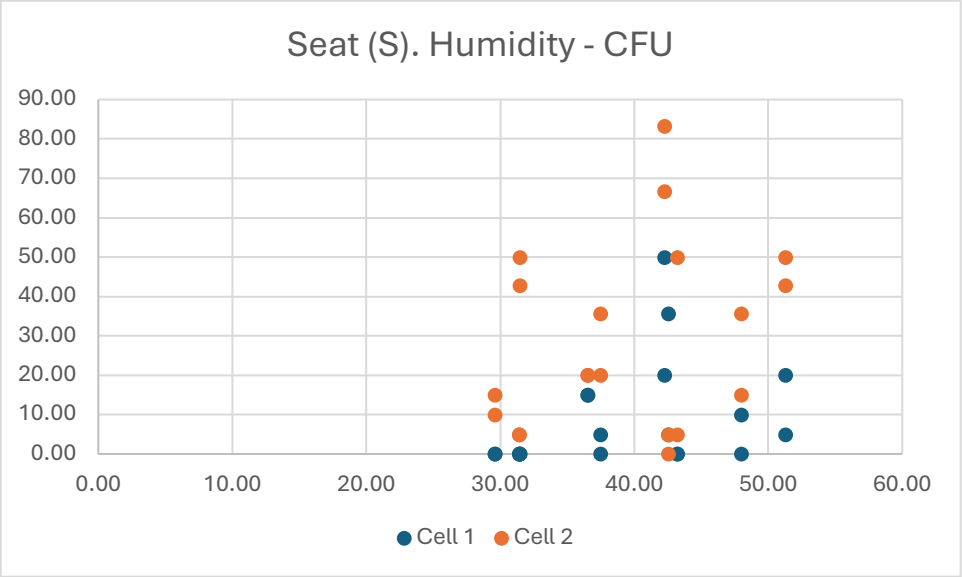

Steel bars (B). Temperature - CFU
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
Cell 1
Cell 2

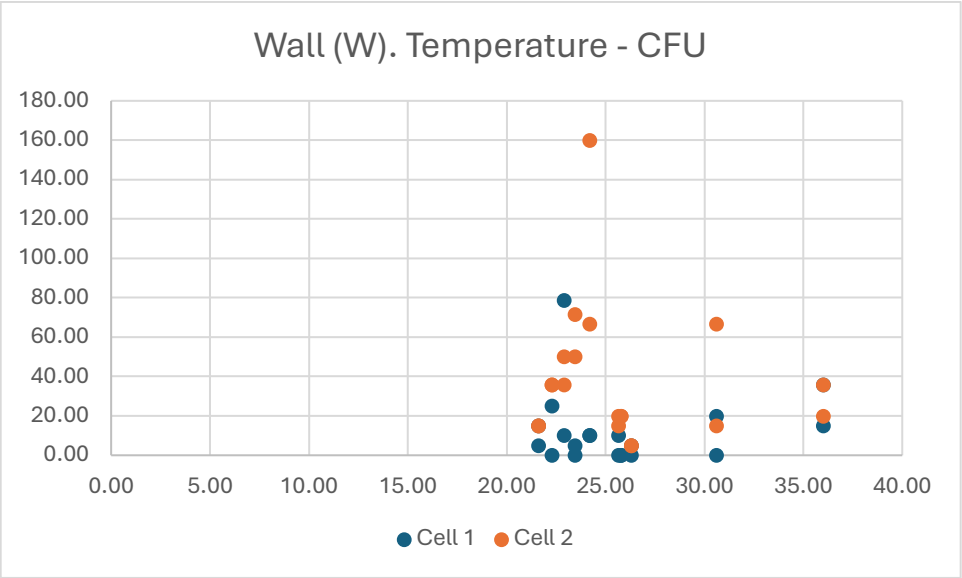

Steel bars (B). Humidity - CFU
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
10.00
20.00
30.00
40.00
50.00
60.00
Cell 1
Cell 2

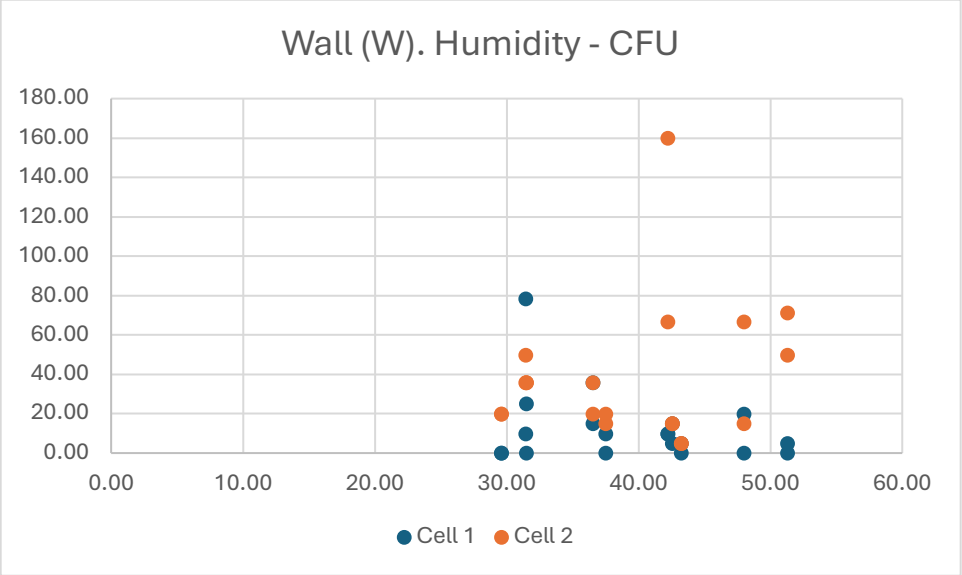

Floor (F). Temperature - CFU
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
Cell 1
Cell 2

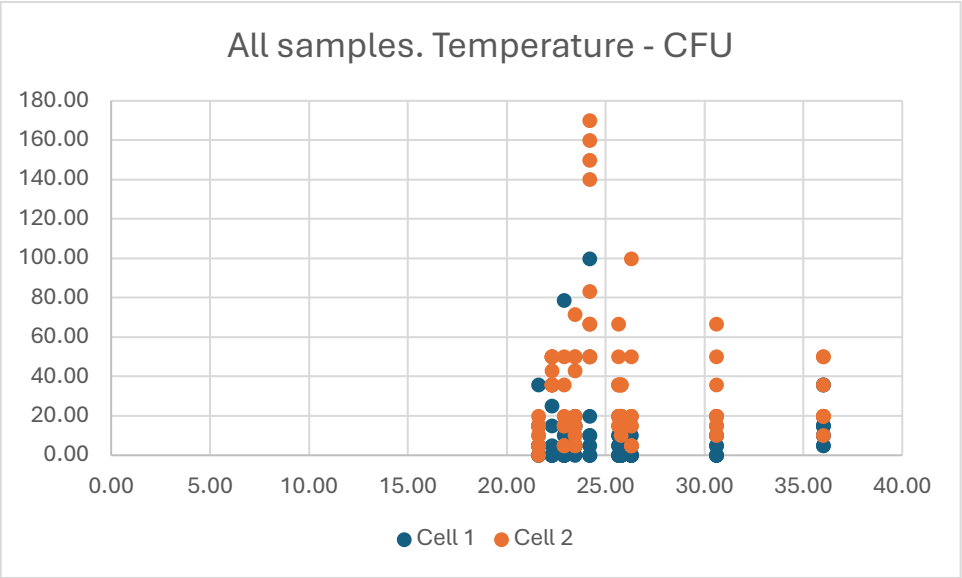

Floor (F). Humidity - CFU
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
10.00
20.00
30.00
40.00
50.00
60.00
Cell 1
Cell 2

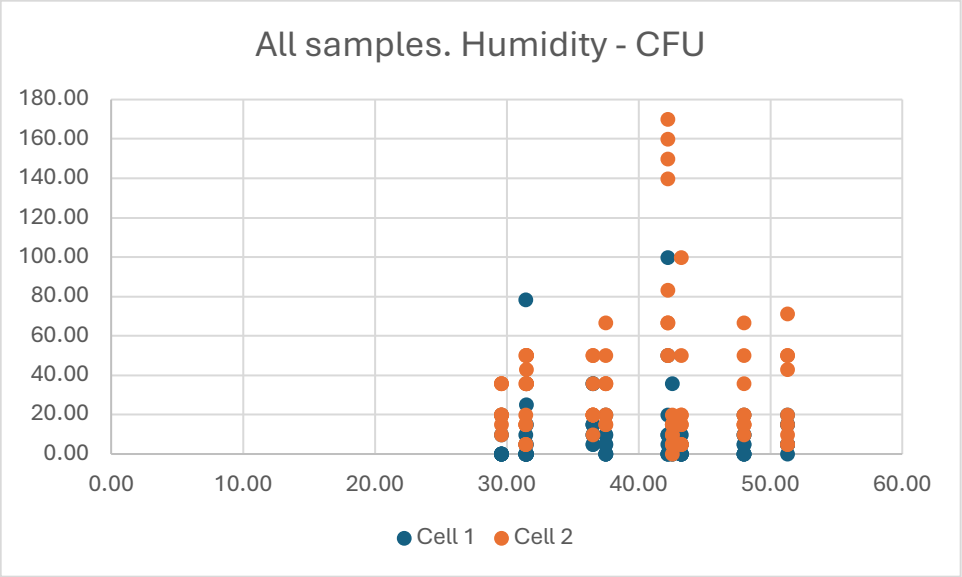

Seat (S). Temperature - CFU
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
Cell 1
Cell 2


Seat (S). Humidity - CFU
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
0.00
10.00
20.00
30.00
40.00
50.00
60.00
Cell 1
Cell 2


Wall (W). Temperature - CFU
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
Cell 1
Cell 2


Wall (W). Humidity - CFU
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
10.00
20.00
30.00
40.00
50.00
60.00
Cell 1
Cell 2


All samples. Temperature - CFU
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
Cell 1
Cell 2


All samples. Humidity - CFU
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
10.00
20.00
30.00
40.00
50.00
60.00
Cell 1
Cell 2