

STEPS FOR A BM RESPIROMETRY TEST WITH THE SPECIAL REACTOR FOR MBBR

1. Load de biomass carriers in the reactor cage



2. Place the filled cage into de reactor vessel loaded with surrounding mixed-liquor of the actual process



3. Install reactor assembly and connectors in the analyzer console



4. Set the test configuration

New Test

Test type:
R
OUR
Cyclic OUR

Name: MBBR activity for nitrification
Operator: ES
Filename: C:\Documents and Settings\Propietario\ Search
Data interval: 2 s

Vf: 1000,00 ml Solids: 7,00 g/L CO: 126,05
Vm: 1,00 ml Y: 0,67 DO Low: 1,0
fd: Auto 1001 Readings < 0 DO High: 3,0
 Force Cb: 0,00

Board control settings during test

Temperature control: 20,00
PH Control: 7,00 Hysteresis: 0,00

Peristaltic pump: 2
Aeration: 55

Cancel Accept

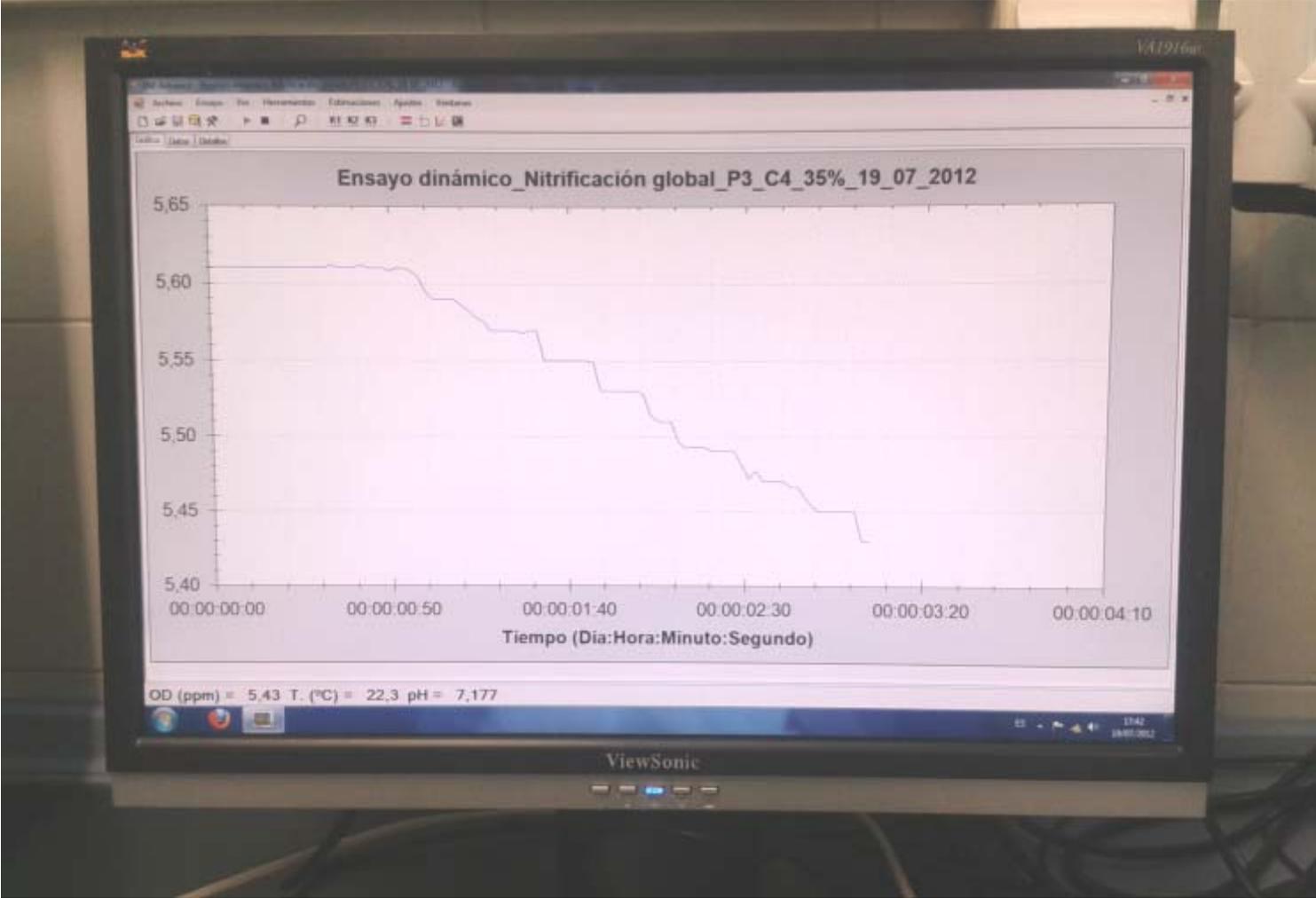
5. Run the test



6. Check measurements throughout the test

Time (Day:Hour:Minute:Sec)	DO (ppm)	T. (°C)	pH	Rs (mg/l.h)	Rsp (mg/g.h)	CO (mg/l)	bCOD (mg/l)	U (mgbCOD/l.h)	q (mgbCOD/mgVSS.d)
00:01:23:42	6,79	12,024	8,01	5,372	5,372	3691,47865	11186,29894	8,011	0,192
00:01:23:44	6,79	12	8,01	5,372	5,372	3694,46608	11195,35176	8,014	0,192
00:01:23:46	6,79	12,02	8,01	5,372	5,372	3697,45351	11204,40458	8,017	0,192
00:01:23:48	6,787	12,048	8,01	5,496	5,496	3700,5099	11213,66636	8,021	0,193
00:01:23:50	6,79	12,032	8,01	5,372	5,372	3703,49733	11222,71918	8,024	0,193
00:01:23:52	6,79	12,028	8,01	5,372	5,372	3706,48476	11231,772	8,027	0,193
00:01:23:54	6,79	12	8,01	5,372	5,372	3709,47219	11240,82482	8,031	0,193
00:01:23:56	6,79	12	8,01	5,372	5,372	3712,45962	11249,87764	8,034	0,193
00:01:23:58	6,79	12	8,01	5,372	5,372	3715,44705	11258,93045	8,037	0,193
00:01:24:00	6,79	12	8,01	5,372	5,372	3718,43448	11267,98327	8,041	0,193
00:01:24:02	6,79	12,024	8,01	5,372	5,372	3721,42191	11277,03609	8,044	0,193
00:01:24:04	6,79	12,056	8,01	5,372	5,372	3724,40934	11286,08891	8,047	0,193
00:01:24:06	6,79	12,008	8,01	5,372	5,372	3727,39677	11295,14173	8,05	0,193
00:01:24:08	6,79	12,028	8,01	5,372	5,372	3730,3842	11304,19455	8,054	0,193
00:01:24:10	6,79	12	8,01	5,372	5,372	3733,37163	11313,24736	8,057	0,193
00:01:24:12	6,79	12,024	8,01	5,372	5,372	3736,35906	11322,30018	8,06	0,193
00:01:24:14	6,788	12,056	8,01	5,455	5,455	3739,39265	11331,49288	8,063	0,194
00:01:24:16	6,79	12,076	8,01	5,372	5,372	3742,38008	11340,5457	8,067	0,194
00:01:24:18	6,79	12,016	8,01	5,372	5,372	3745,36751	11349,59852	8,07	0,194

7. See Respirograms



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