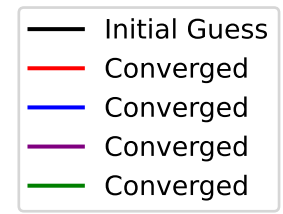
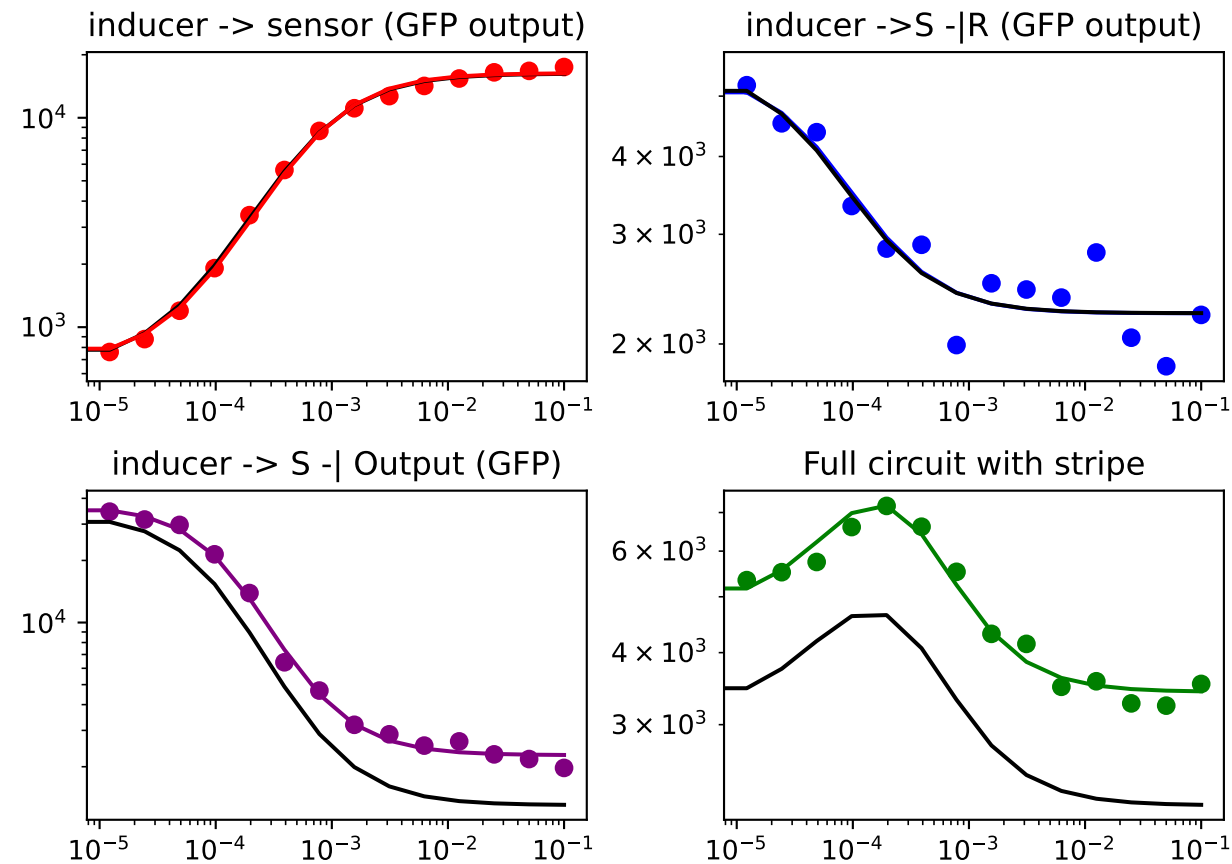


['SM data type data plots for mutation', 'Output7', 'using model:', 'model']



time elapsed for this fit
--- 48.4815878868103 seconds ---

Across all four plots:

RSS (converged)=0.058
RSS (initial)=1.108
RSS (% reduction)=0.95

	epsilon	Initial_guesses	Converged
A_s	28.152936	650.714912	678.867848
B_s	82.838877	16259.979950	16342.818827
C_s	-30.073645	1296.448889	1266.375244
N_s	0.032747	1.154067	1.186814
A_r	0.000000	2020.019216	2020.019216
B_r	0.000000	23688.809187	23688.809187
C_r	0.000000	0.010358	0.010358
N_r	0.000000	0.910072	0.910072
A_h	660.402944	143.802212	804.205156
B_h	-3788.557319	50238.271408	46449.714089
C_h	-0.000299	0.000929	0.000630
A_o	-1.645307	1.673894	0.028587
B_o	-0.828563	0.895342	0.066779
C_o	0.305372	2.657699	2.963071
N_o	0.087260	1.379953	1.467212
F_o	38.707386	2.361284	41.068670

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.058189644356363
x: [6.789e+02 1.634e+04 ... 1.467e+00 4.107e+01]
nit: 15538
nfev: 20343
final_simplex: (array([[6.789e+02, 1.634e+04, ..., 1.467e+00, 4.107e+01],
[6.789e+02, 1.634e+04, ..., 1.467e+00, 4.107e+01],
...,
[6.789e+02, 1.634e+04, ..., 1.467e+00, 4.107e+01],
[6.789e+02, 1.634e+04, ..., 1.467e+00, 4.107e+01]]), array([5.819e-02, 5.819e-02, ..., 5.819e-02, 5.819e-02]))