

Leishmania quantitation (real- time qPCR)

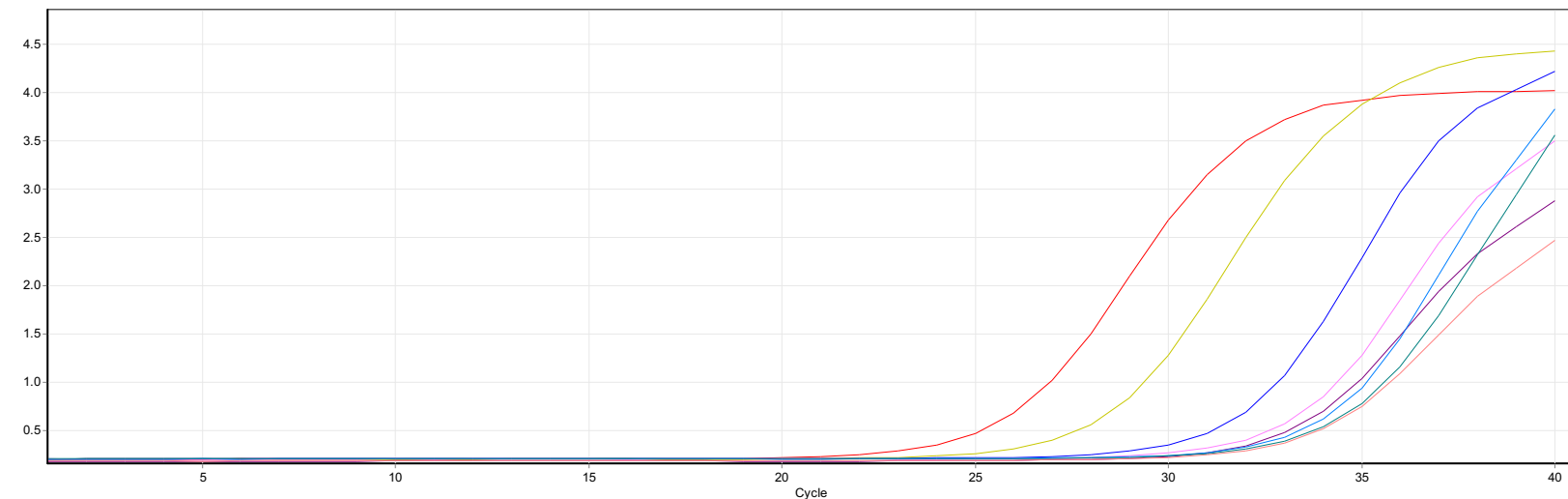
Yana and Tijani

Aim

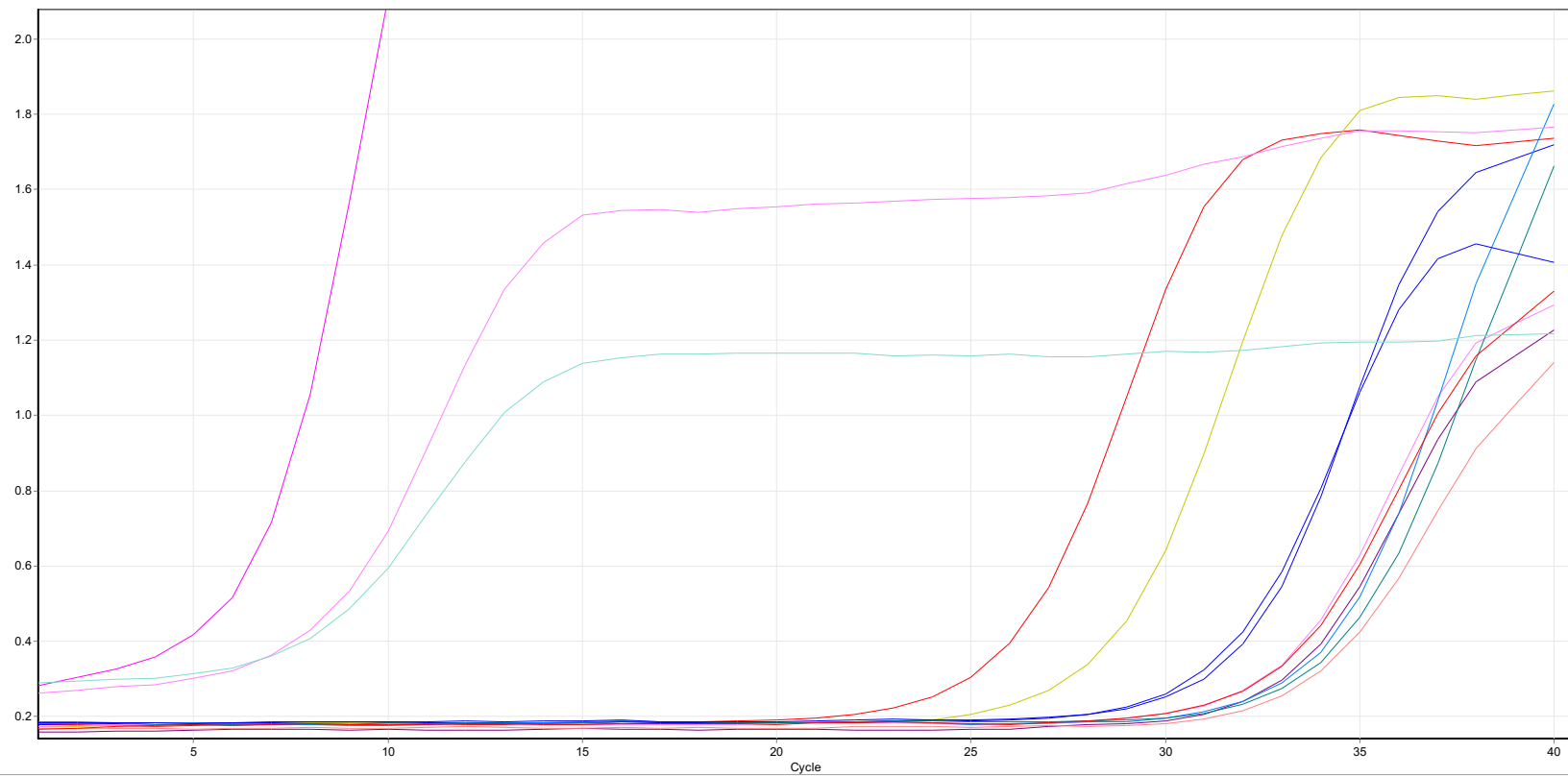
To quantify the parasite load (no/ml) in blood samples of infected individuals using real-time kDNA qPCR assays.

Amplification curve

- Concentration of promastigotes in filter paper samples from 10^7 to 10 parasite/ml



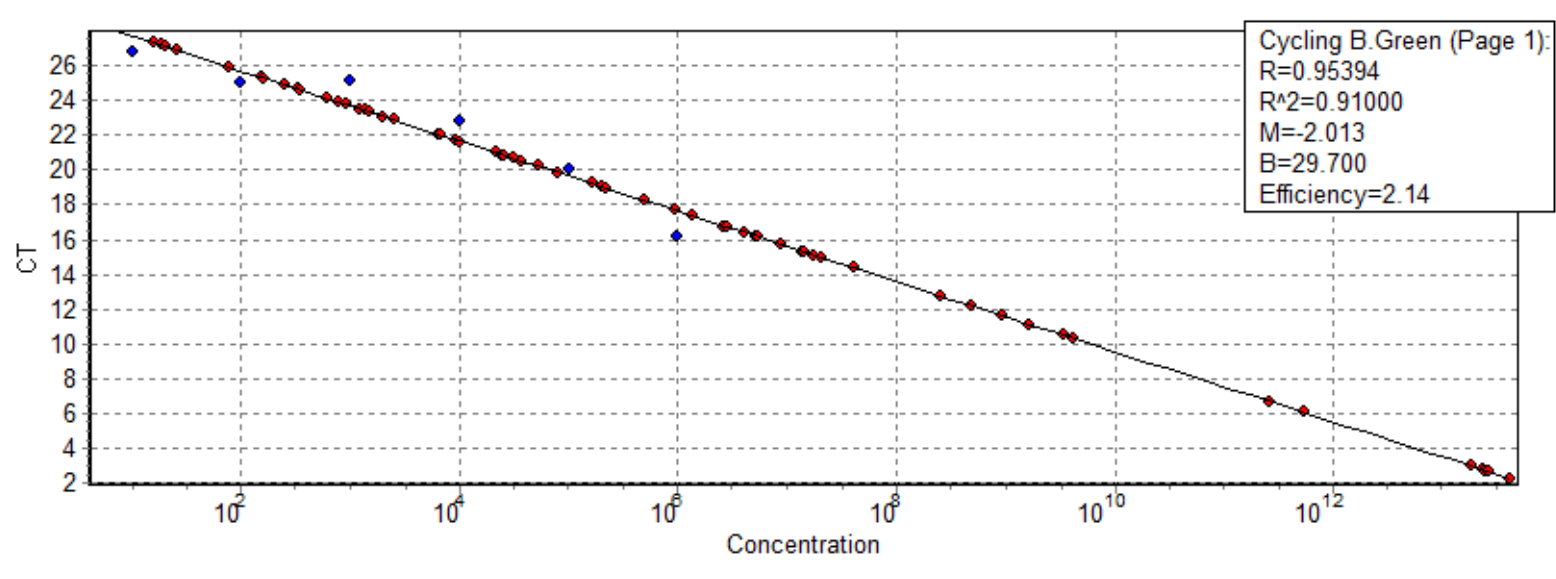
Amplification curve



Reasons for inconsistency

- Unsterilized puncher in between sampling
- Other technical problems eg. Incorrect sampling, pipeting etc.

Standard curve



G/S

38	14491200
39	17438089
40	8781449
41	3412234669
42	4.08035E+13

H/A

43	76
44	6643
45	484873
46	477685940
47	2.31467E+13

S/I

48	10269
49	1478
50	52589
51	40330990
52	5.36298E+11

Y/T

53	2768743
54	253
55	21533
56	13873562
57	2.6425E+11

A

58	5094618
59	4119973
60	202909
61	1635044975
62	2.67575E+13

A/F

63	221378
64	20532189
65	163200
66	1.84655E+13
67	2.68304E+13

T/A

68	256793656
69	79111
70	5379688
71	4120133358
72	4.16027E+13

Traditional PCR VS. qPCR



Sample NO	Parasites/ ml
43	76
44	6643
45	484873
46	477685940
47	2.31467E+13

Thank You