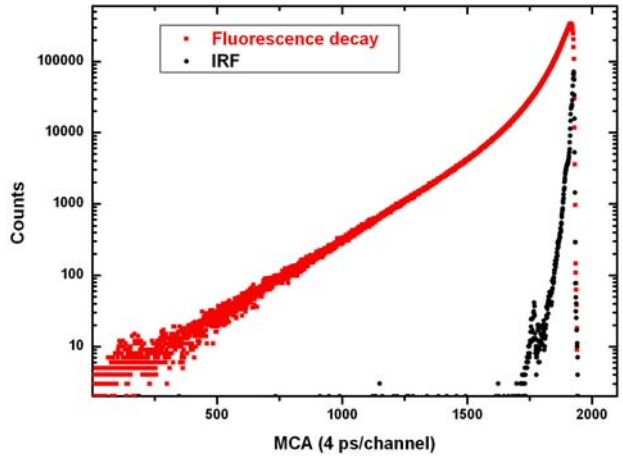
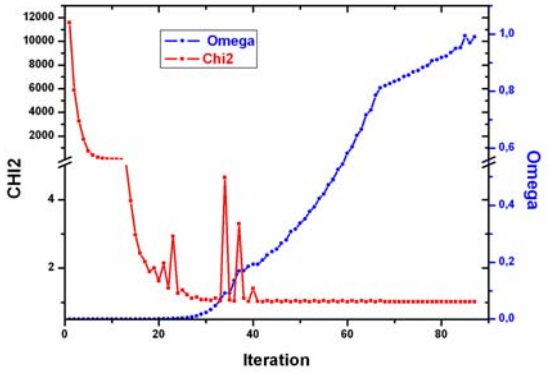
Lifetime distribution recovery in time-resolved fluorescence analysis

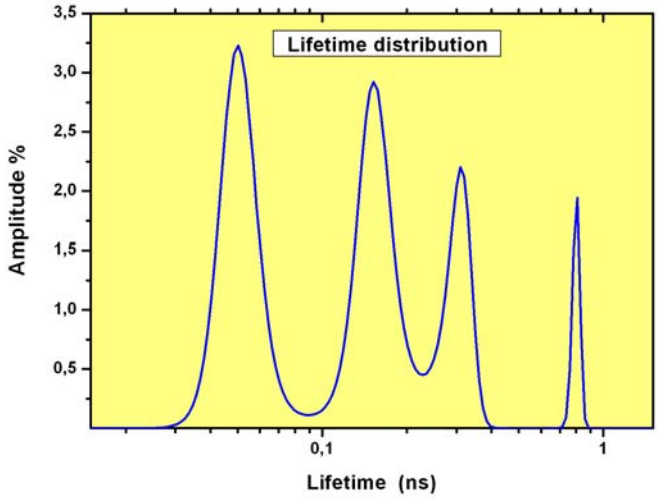
Mocked data of 4 exponential decay



Analysed by PULSE5 software



Lifetime distribution

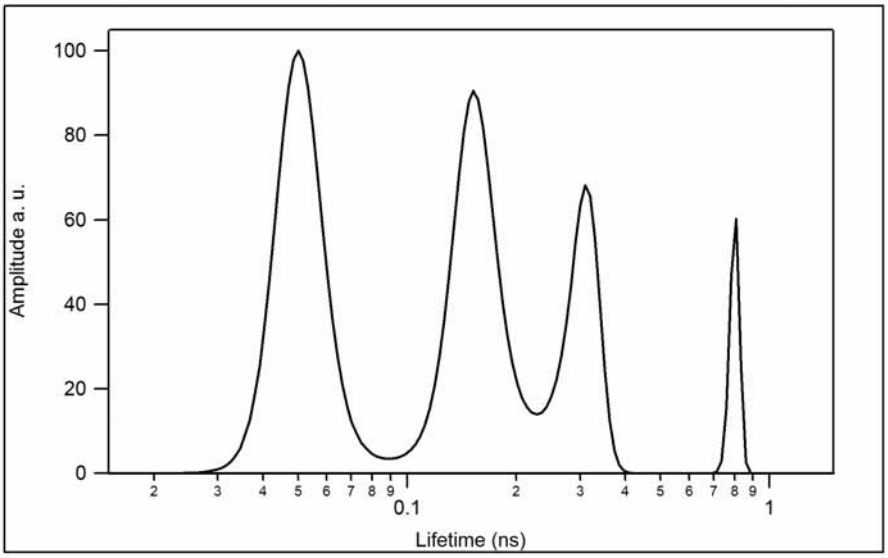


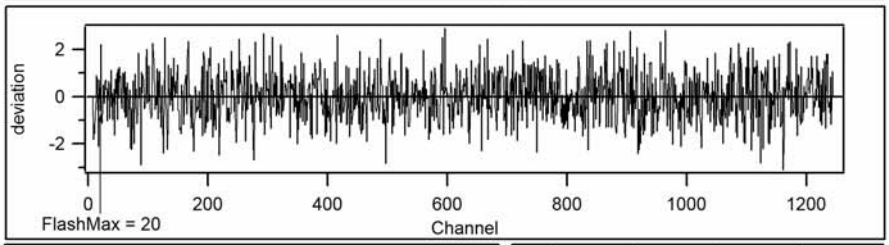
Analysis data sheet from PULSE5 as shown by Igor® procedure

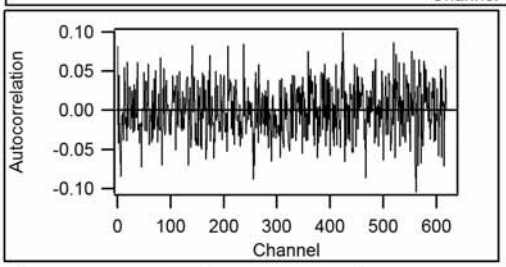
MEDC Ltd (C) 18/07/2007 23:54 Analysis date: 18/ 7/2007 at 19h59 **File:test-1.txt**

<Four exponential : tau's: 0.05 0.15 0.30 0.8ns / Alpha's: 0.40 0.35 0.20 0.05

<18 July 2007 DEMO 1 PULSE5.EXE Mock data convolved with excit1.fl file







Poin	Tau	Ci	DTau	DCi
0	0.052	0.406	0.003	0.026
1	0.156	0.361	0.009	0.042
2	0.302	0.184	0.015	0.036
3	0.799	0.050	0.008	0.002
4				

Scatter Light : 0 OMEGA : 0.9903 Chi2 : 1.012

N1F = 701 N2F= 1945 NFit = 1937 N1BF= 1961 N2BF= 2020
Gfactor = 0 Shift=0 AL = 0.004 Tref=0 D_Level= 0
Tau Min =0.015 Tau Max=1.5 Nbr Tau=150 Tau moyen= 0.1723
Niter 87 /500 Rate1 =-0.5 Rate2 =-0.1 Rate3 =-0.02
Evidence = -12271.7 db = 36.4