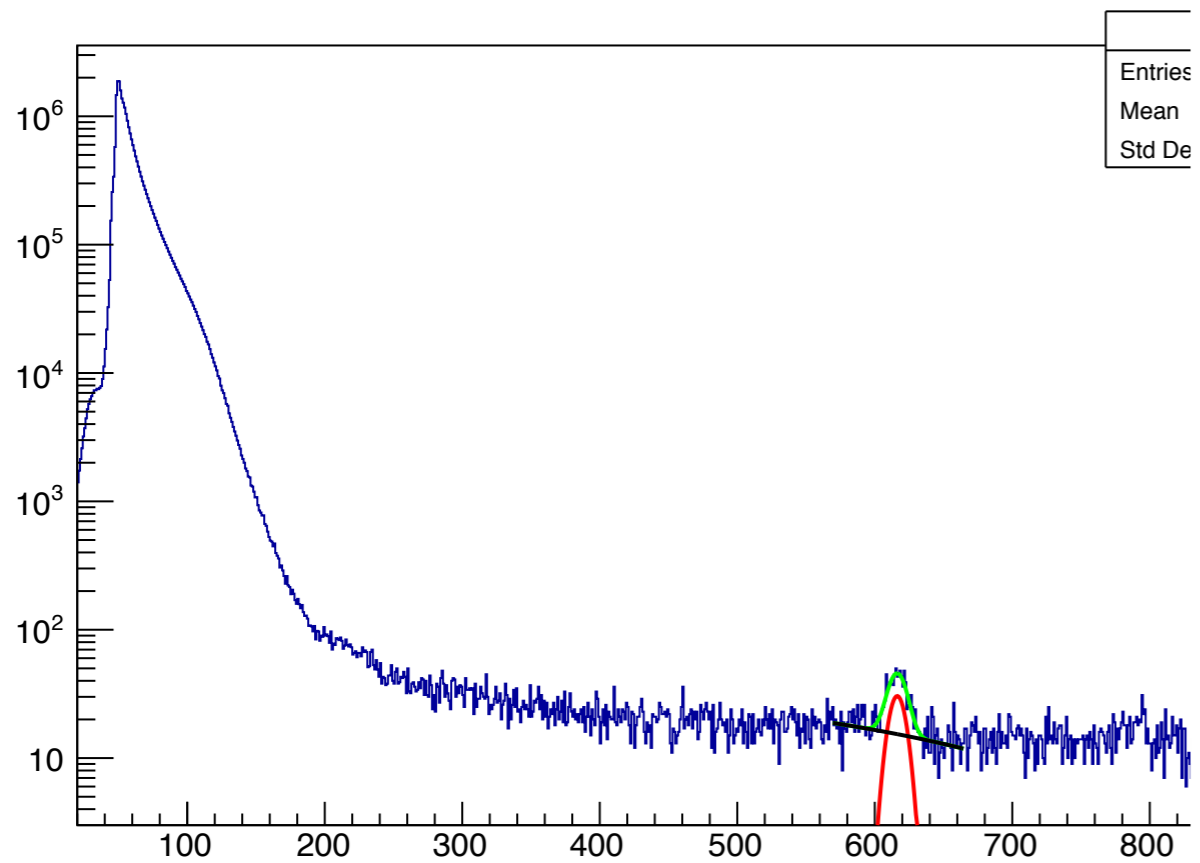
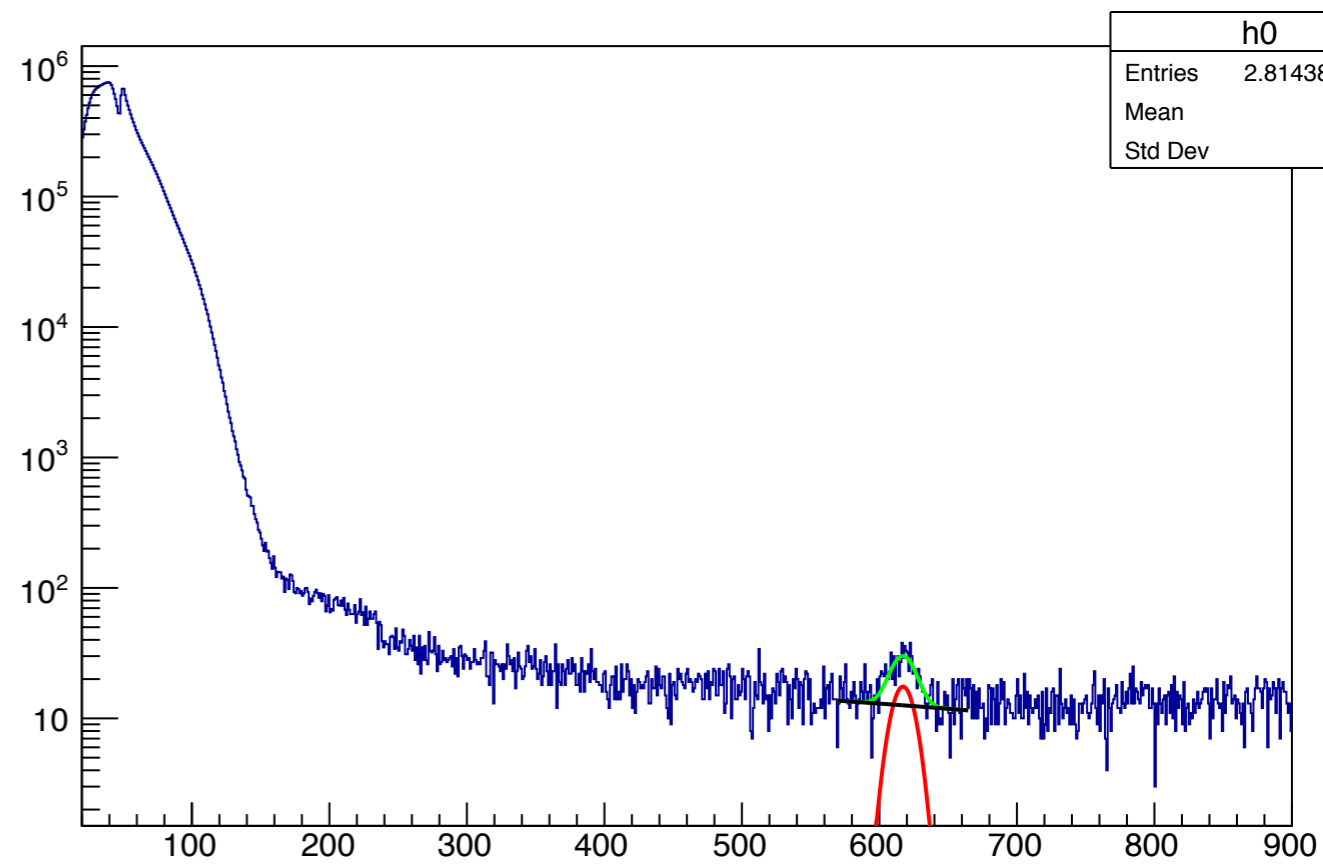


# **Water samples**

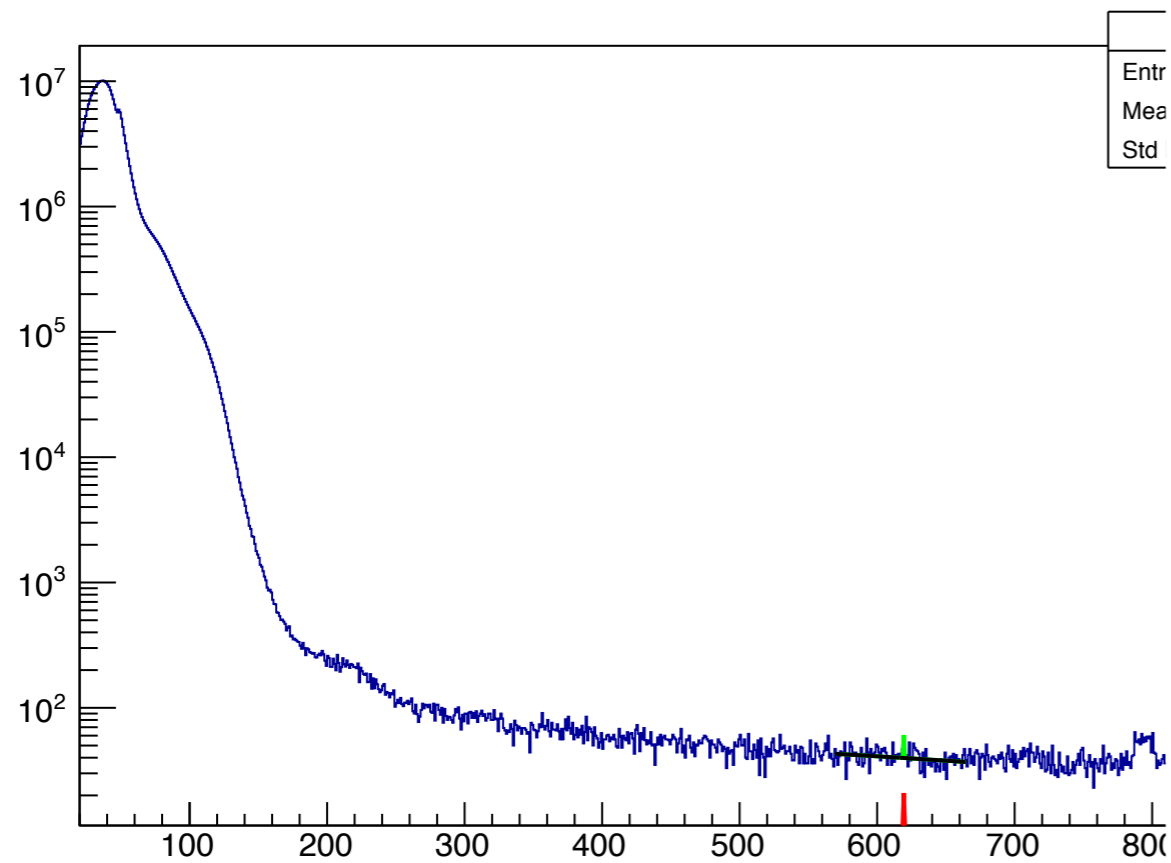
II.dat



III.dat

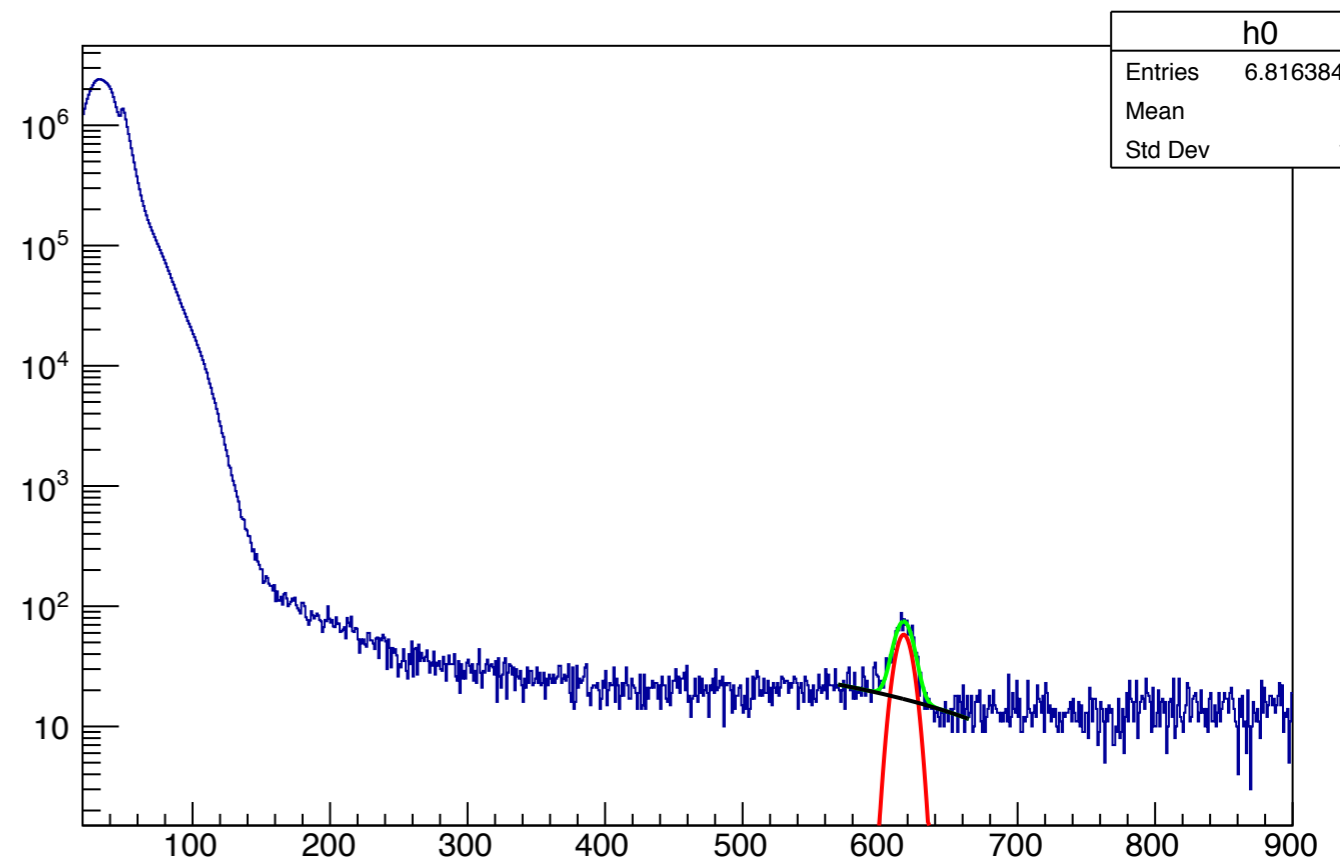


IV.dat

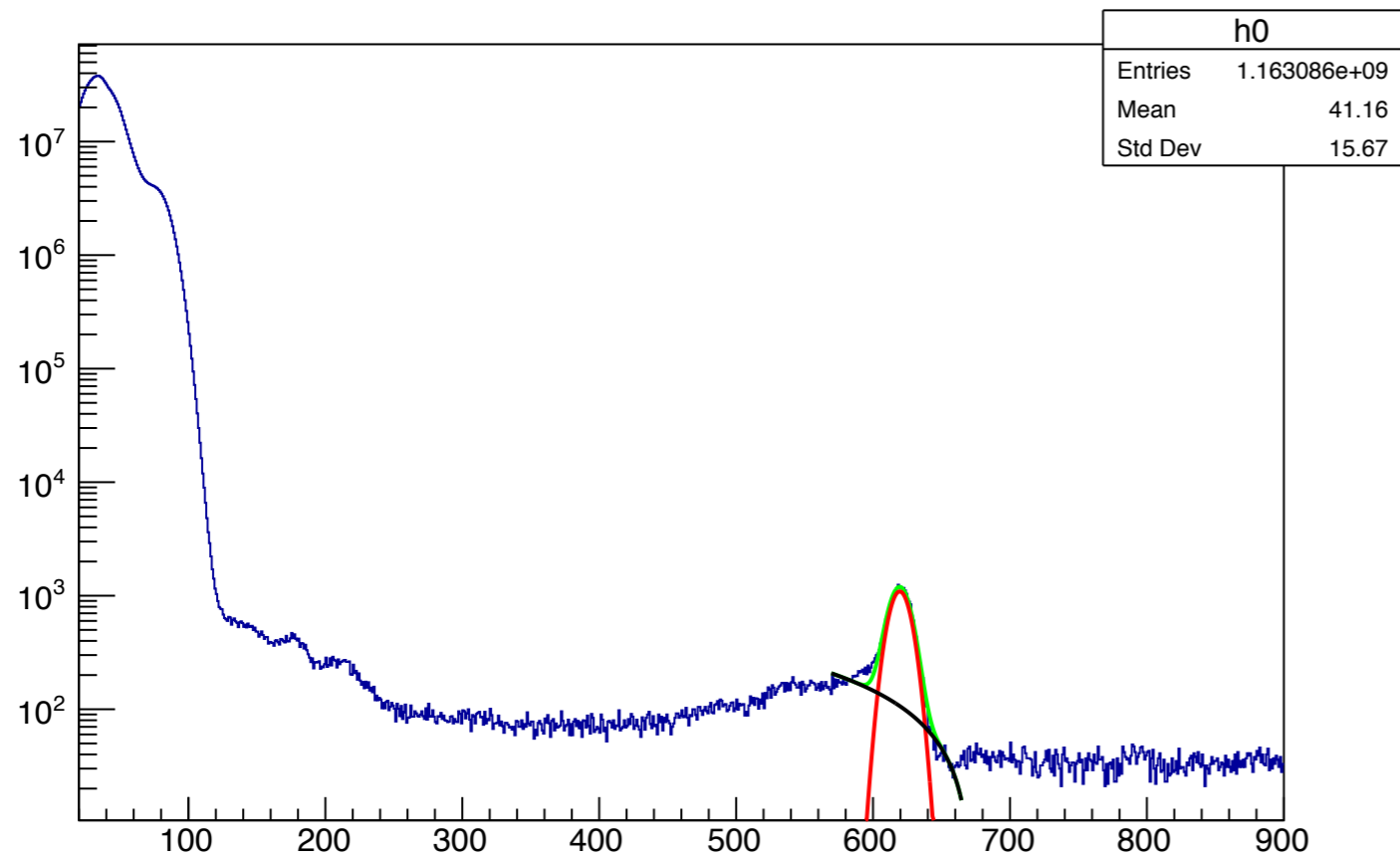


datos

V.dat



VI.dat



```

Processing Fit_210Pb_test.C("II.dat").
II.dat 608.908 0.0405251
III.dat

Processing Fit_210Pb_test.C("III.dat")
III.dat 518.688 0.0439083
IV.dat

Processing Fit_210Pb_test.C("IV.dat").
IV.dat 93.6351 0.103343
V.dat

Processing Fit_210Pb_test.C("V.dat").
V.dat 1053.28 0.0308126
VI.dat

Processing Fit_210Pb_test.C("VI.dat").
VI.dat 22209.1 0.00671019

```

```

Sample_I_4us_gain500.10_05.03.2020_cut50_run1.mca
LIVE_TIME - 87271.97333

Sample_II_4us_gain500.10_04.03.2020_cut50_run3.mca
LIVE_TIME - 86290.280000

Sample_III_4us_gain500.10_05.03.2020_cut50_run1.mca
LIVE_TIME - 82285.26666

Sample_IV_4us_gain500.10_05.03.2020_cut50_run1.mca
LIVE_TIME - 244877.440000

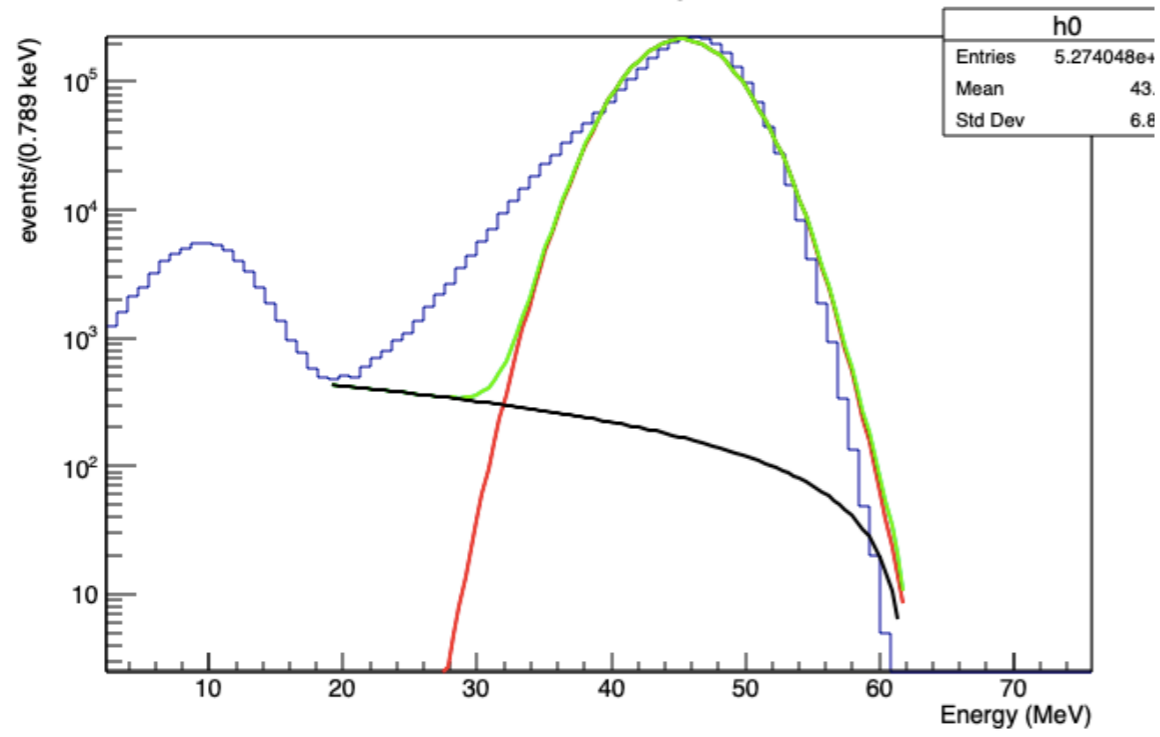
Sample_V_4us_gain500.10_05.03.2020_cut50_run1.mca
LIVE_TIME - 85775.06666
~
~
~
~

```

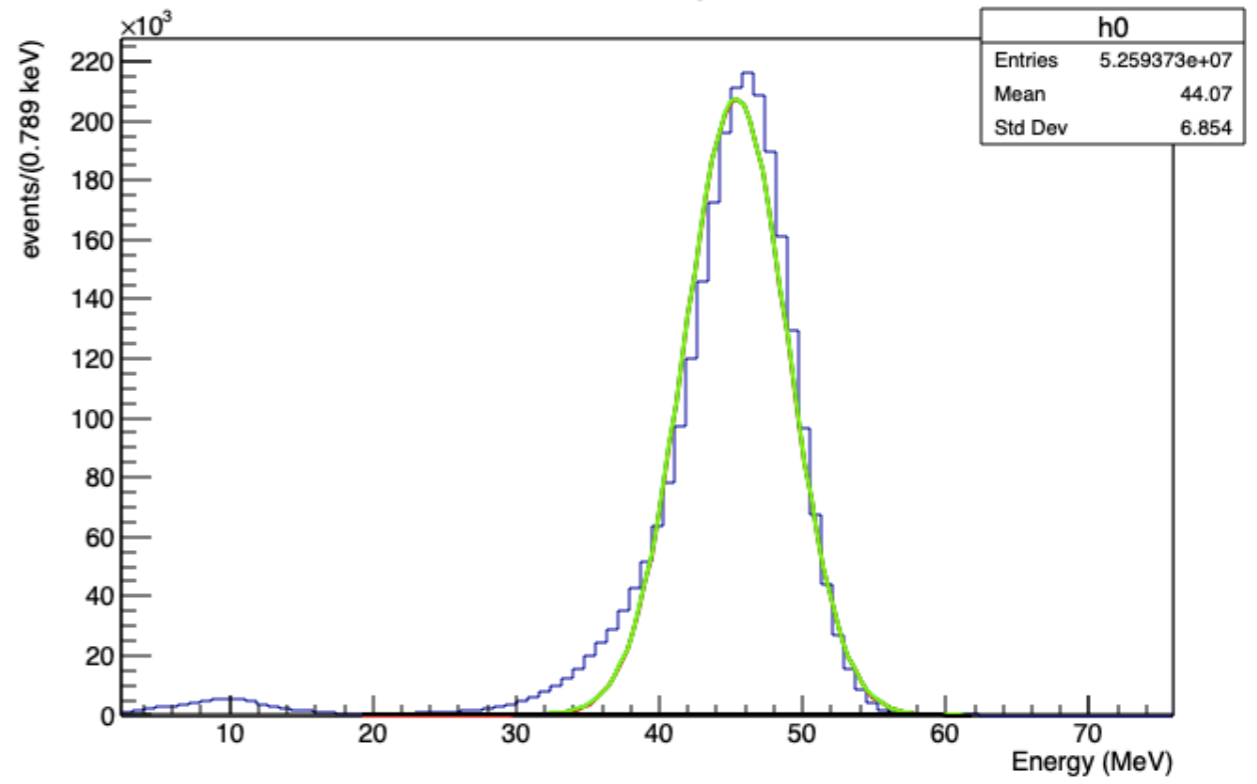
# MC

Sample	Histo count	Histo - linear fit	Efficiency %
I	2673278	2.66156E+06	5.32312
I shield	2676142	2.66442E+06	5.32885
II	2660331	2.64861E+06	5.29723
III	2692371	2.68065E+06	5.36131
III +4mm	2857993	2.84628E+06	5.69255
III -4mm	2497910	2.48619E+06	4.97238
IV	2653212	2.64149E+06	5.28299
V	2531958	2.52024E+06	5.04048
VI	2517866	2.50615E+06	5.0123
VI + 4mm	2746399	2.73468E+06	5.46936
VI -4mm	2273956	2.26224E+06	4.52448

210Pb Water Sample I MC



210Pb Water Sample I MC



If we assume the MC efficiency as real, the activity we get for each sample

Table 1

			Counts/s	MC efficiency	Activity
	t				
I	87271.973333				
II	87005.160000	608.908	0.006998527443659	5.3	0.13204768761622
III	82285.266667	518.688	0.006303534290033	5.3	0.118934609245918
IV	244877.440000	93.63	0.000382354536212	5.3	0.007214236532303
V	85775.066667	1053	0.012276294742946	5.04	0.24357727664577
VI	169810.253333	22209	0.130787155451961	5.01	2.6105220649094