This First Measurement was not optimized and returned amplification instead of attenuation.
Osc. Meas.

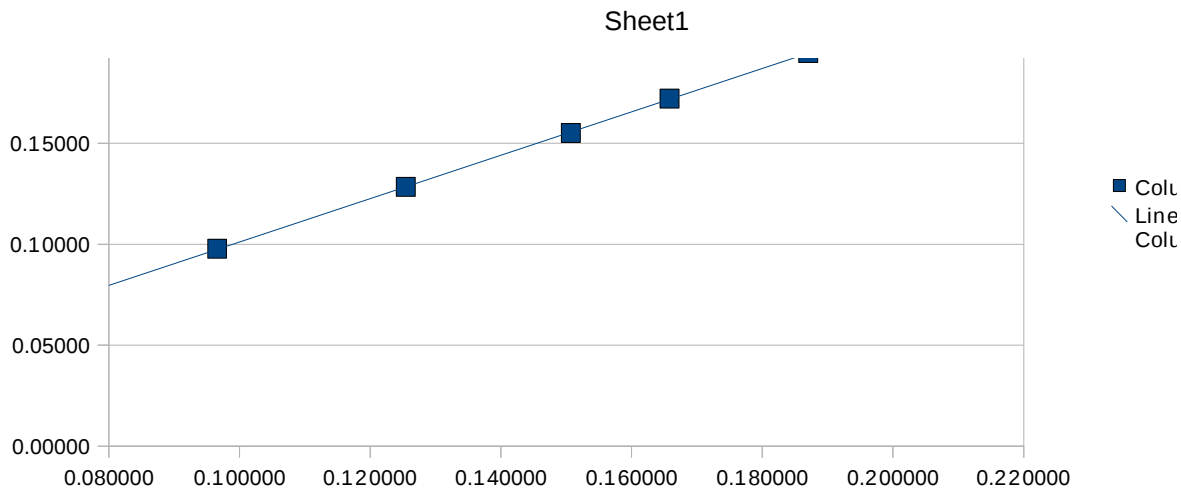
Pulse Area. nVs	nC
1.4446	0.028892
2.4886	0.049772
3.2759	0.065518
4.6038	0.092076
5.6440	0.112880
6.5106	0.130212
7.8110	0.156220
8.9336	0.178672
9.8230	0.196460
10.4820	0.209640
17.6040	
11.6260	

Now, pulse width >> gate. (Optimized, including calibration shown below)

Gate Width ns	Error ns	Pulse Amp. V	Error V	Pulse Area. nVs	Error nVs	nC
75.32000	0.07000	0.12498	0.00030	9.41349	0.02423	0.18827
75.32000	0.07000	0.07405	0.00001	5.57745	0.00524	0.11155
75.32000	0.07000	0.08803	0.00001	6.63042	0.00621	0.13261
75.32000	0.07000	0.10430	0.00002	7.85588	0.00745	0.15712
75.32000	0.07000	0.11430	0.00002	8.60908	0.00814	0.17218
75.32000	0.07000	0.13812	0.00002	10.40320	0.00979	0.20806
75.32000	0.07000	0.14403	0.00001	10.84834	0.01011	0.21697
75.32000	0.07000	0.06238	0.00002	4.69846	0.00462	0.09397

Evaluating Systematic Error

75.300000	0.015000	0.100070	0.000003	7.535271	0.001518	0.150705
75.300000	0.015000	0.083300	0.000020	6.272490	0.001957	0.125450
75.300000	0.015000	0.110100	0.000020	8.290530	0.002235	0.165811
75.300000	0.015000	0.140180	0.000020	10.555554	0.002586	0.211111
75.300000	0.015000	0.064120	0.000020	4.828236	0.001787	0.096565
75.300000	0.015000	0.124200	0.000020	9.352260	0.002396	0.187045
75.300000	0.015000					
75.300000	0.015000					
75.300000	0.015000					


Sheet1
0.15000
0.10000
0.05000
0.00000
0.080000
0.100000
0.120000
0.140000
0.160000
0.180000
0.200000
0.220000
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ADC Meas. Pulse Area #	Pedestal #	Pulse Area nC	Pedestal nC	Total (Pulse-P nC
151.600000	33.1300	0.03790	0.00828	0.02962
235.700000	33.1300	0.05893	0.00828	0.05064
300.700000	33.1300	0.07518	0.00828	0.06689
408.100000	33.1300	0.10203	0.00828	0.09374
495.400000	33.1300	0.12385	0.00828	0.11557
567.300000	33.1300	0.14183	0.00828	0.13354
672.300000	33.1300	0.16808	0.00828	0.15979
764.900000	33.1300	0.19123	0.00828	0.18294
837.800000	33.1300	0.20945	0.00828	0.20117
890.800000	33.1300	0.22270	0.00828	0.21442

Error nC	Corrected nC nC					
0.00048	0.19601	819.60000	42.00000	0.20490	0.01050	0.19440
0.00010	0.11360	496.30000	42.00000	0.12408	0.01050	0.11358
0.00012	0.13622	583.40000	42.00000	0.14585	0.01050	0.13535
0.00015	0.16255	690.60000	42.00000	0.17265	0.01050	0.16215
0.00016	0.17873	754.10000	42.00000	0.18853	0.01050	0.17803
0.00020	0.21728	907.20000	42.00000	0.22680	0.01050	0.21630
0.00020	0.22684	942.40000	42.00000	0.23560	0.01050	0.22510
0.00009	0.09471	419.00000	42.00000	0.10475	0.01050	0.09425
		Attenuation Factor =		**0.99042**		
		Intercept		**0.00074**		
0.00003		662.40000	42.00000	0.16560	0.01050	0.15510
0.00004		556.00000	42.00000	0.13900	0.01050	0.12850
0.00004		730.40000	42.00000	0.18260	0.01050	0.17210
0.00005		924.70000	42.00000	0.23118	0.01050	0.22068
0.00004		432.90000	42.00000	0.10823	0.01050	0.09773
0.00005		820.90000	42.00000	0.20523	0.01050	0.19473
			42.00000		0.01050	
			42.00000		0.01050	
			42.00000		0.01050	

Correction Factor=	**1.074276**
Intercept	**-0.006239**

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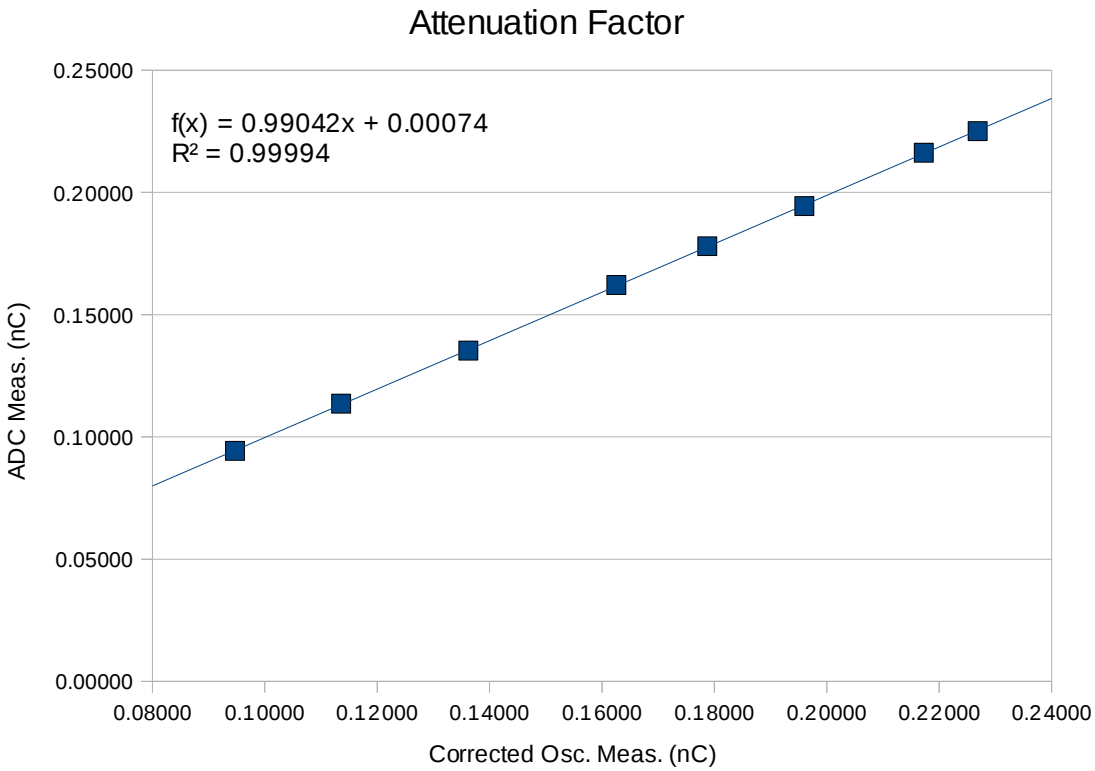
Attenuation Factor
f(x) = 0.99042x + 0.00074
R² = 0.99994
ADC Meas. (nC)
Corrected Osc. Meas. (nC)
0.25000
0.20000
0.15000
0.10000
0.05000
0.00000
0.08000
0.10000
0.12000
0.14000
0.16000
0.18000
0.20000
0.22000
0.24000