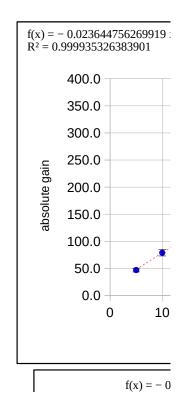
		Г
G25 O120 Ch0 Pt	ılseIn_20191119_114253.txt	ć
amp_mean	38892.2	
amp_sigm	119.1	
abs_gain	165.1	
abs_gErr	12.5	
u03_5E11	12.0	
G60 O120 Ch0 Pu	ılseIn_20191119_114539.txt	
amp_mean	76041.7	ä
amp_sigm	266.1	
abs_gain	322.9	
abs_gErr	24.4	
400_6211		
G55_O120_Ch(_ER	ROR	
amp_mean	71242.2	
amp_sigm	296.9	í
abs_gain	302.5	F
abs_gErr	22.9	
G55_O120_Ch(_ER	RROR	
amp_mean	399431	
_	2.47E+05	
abs_gain	1696	5
abs_gErr	1.06E+03	
db3_gLII	1.001 05	
G5 O120 Ch0 Pul	seIn_20191119_114149.txt	
amp_mean	11069.9	
amp_sigm	38.82	F
abs_gain	47	H
abs_gErr	3.55	L
aus_gen	3.33	
G40 O120 Ch0 Pi	ılseIn_20191119_114329.txt	
amp_mean	56275.2	
amp_sigm	184.6	
abs_gain	238.9	
abs_gErr	18.1	
u03_5E11	10.1	
G35 O120 Ch0 Pt	ılseIn_20191119_114319.txt	
amp_mean	50801.9	
amp_sigm	160.6	
abs_gain	215.7	
abs_gErr	16.3	
u03_5E11	10.5	
G25 O120 Ch0 Pu	ılseIn_20191119_114255.txt	
amp_mean	38889.7	
amp_sigm	122.6	
abs_gain	165.1	
abs_gErr	12.5	
- _ 0		
G55_O120_Ch(_ER	ROR	
amp_mean	227518	
amp_inean	1 205±05	

1.29E+05

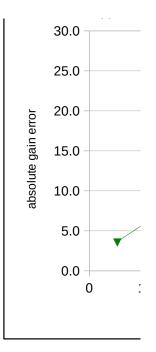
amp_sigm

Gain	5	10	15	20
ampl mean	11069.9	18590.3	25722.7	32492.8
	11071.1	18595.5	25720.2	32486.9
	11067.3	18588.9	25723.9	32493.8
	11068.8	18592.3	25721.3	32481.4
	11069.3	18591.8	25722.0	32488.7
ampl sigma	38.82	59.78	86.01	100.9
	37.76	60.36	78.41	109.1
	37.85	59.85	80.82	98.74
	37.55	63.31	81.63	97.01
	38.0	60.8	81.7	101.4
abs gain	47	78.93	109.2	138
	47.01	78.96	109.2	137.9
	46.99	78.93	109.2	138
	47	78.94	109.2	137.9
	47.0	78.9	109.2	138.0
abs gain Err	3.55	5.97	8.26	10.4
3	3.55	5.97	8.26	10.4
	3.55	5.97	8.26	10.4
	3.55	5.97	8.26	10.4
	3.6	6.0	8. 3	10.4



abs_gain	966	
abs_gErr	553	
aus_grii	555	
G30 O120 Ch	0_PulseIn_20191119	114307 txt
amp_mean	44988.8	_11-1507.t/tt
amp_sigm	143.8	
abs_gain	191	
abs_gErr	14.4	
u00_5211	1	
G35 O120 Ch	0_PulseIn_20191119	114320.txt
amp_mean	50819.4	_
amp_sigm	159.1	
abs_gain	215.8	
abs_gErr	16.3	
_5		
G30_O120_Ch	0_PulseIn_20191119	_114305.txt
amp_mean	44994.7	
amp_sigm	141.6	
abs_gain	191	
abs_gErr	14.4	
G35_O120_Ch	0_PulseIn_20191119	_114322.txt
amp_mean	50816.8	
amp_sigm	160.1	
abs_gain	215.8	
abs_gErr	16.3	
G25_O120_Ch	0_PulseIn_20191119	_114257.txt
amp_mean	38908.6	
amp_sigm	120.3	
abs_gain	165.2	
abs_gErr	12.5	
G30_O120_Ch	0_PulseIn_20191119	_114310.txt
amp_mean	45003.5	
amp_sigm	142.4	
abs_gain	191.1	
abs_gErr	14.4	
C40 0400 C	0 D 1 I 20404440	44.4000
	0_PulseIn_20191119	_114202.txt
amp_mean	18590.3	
amp_sigm	59.78	
abs_gain	78.93	
abs_gErr	5.97	
C63 O130 Ch	0_PulseIn_20191119	11/552 ++++
	0_Pulsein_20191119 _. 78795.8	_114552.lX[
amp_mean		
amp_sigm	275.6 334.6	
abs_gain abs_gErr	25.3	
aus_griT	25.3	

G45_O120_Ch0_PulseIn_20191119_114347.txt amp_mean 61482.1



	040.0
amp_sigm	212.3
abs_gain	261.1
abs_gErr	19.7
G50 O120 Ch	0_PulseIn_20191119_114406.txt
amp_mean	66455
amp_sigm	198.6
abs_gain	282.2
abs_gErr	21.3
_5	
G15_O120_Ch	O_PulseIn_20191119_114218.txt
amp_mean	25722.7
amp_sigm	86.01
abs_gain	109.2
abs_gErr	8.26
GEO 0420 GI	2 P. L. 1 20404440 44440
	O_PulseIn_20191119_114410.txt 66445.5
amp_mean amp_sigm	211.7
anıp_sigin abs_gain	282.1
abs_gErr	21.3
abs_gLII	21.3
G45 O120 Ch	O_PulseIn_20191119_114345.txt
amp_mean	61505.5
amp_sigm	190.8
abs_gain	261.2
abs_gErr	19.7
	O_PulseIn_20191119_114411.txt
amp_mean	66459.6
amp_sigm	208.2
abs_gain	282.2
abs_gErr	21.3
C15 O120 Ch	O_PulseIn_20191119_114223.txt
amp_mean	25720.2
amp_sigm	78.41
abs_gain	109.2
abs_gErr	8.26
J	
G63_O120_Ch	D_PulseIn_20191119_114554.txt
amp_mean	78801.2
amp_sigm	262
abs_gain	334.6
abs_gErr	25.3
C10 O130 CL	DulcoIn 20101110 114205
	O_PulseIn_20191119_114205.txt 18595.5
amp_mean amp_sigm	60.36
anıp_sigin abs_gain	78.96
abs_gErr	5.97
200_PLI	3.3 7
G15_O120_Ch	O_PulseIn_20191119_114222.txt

amp_mean amp_sigm abs_gain abs_gErr	25723.9 80.82 109.2 8.26
	seIn_20191119_114220.txt 25721.3 81.63 109.2 8.26
G10 O120 Ch0 Puls	seIn_20191119_114159.txt
amp_mean	18588.9
amp_sigm	59.85
abs_gain	78.93
abs_gErr	5.97
400_6211	3.37
G63 O120 Ch0 Puls	seIn_20191119_114556.txt
amp_mean	78821.7
amp_sigm	278.2
abs_gain	334.7
abs_gErr	25.3
8	
CF1 O120 Ch0 Puls	seIn_20191119_114712.txt
amp_mean	42192.8
amp_sigm	159.5
abs_gain	179.2
abs_gErr	13.6
_0	
CF1_O120_Ch0_Puls	seIn_20191119_114713.txt
amp_mean	42217.2
amp_sigm	157.2
abs_gain	179.3
abs_gErr	13.6
G20_O120_Ch0_Puls	seIn_20191119_114237.txt
amp_mean	32492.8
amp_sigm	100.9
abs_gain	138
abs_gErr	10.4
	seIn_20191119_114235.txt
amp_mean	32486.9
amp_sigm	109.1
abs_gain	137.9
abs_gErr	10.4
	I 00101110 11 1550 :
	seIn_20191119_114558.txt
amp_mean	78797.8
amp_sigm	260.7
abs_gain	334.6 25.3
abs_gErr	25.3

G60 O120 Ch0 P	ulseIn_20191119_114545.txt
	76032.2
amp_mean	
amp_sigm	259.2
abs_gain	322.8
abs_gErr	24.4
G10 O120 Ch0 P	ulseIn_20191119_114209.txt
amp_mean	18592.3
amp_sigm	63.31
abs_gain	78.94
abs_gErr	5.97
CF1 O120 Ch0 P	ulseIn_20191119_114710.txt
amp_mean	
amp_sigm	169.9
abs_gain	179.2
abs_gErr	13.6
G20 O120 Ch0 P	ulseIn_20191119_114234.txt
amp_mean	 32493.8
amp_sigm	98.74
1 – 0	
abs_gain	138
abs_gErr	10.4
G50_O120_Ch0_P	ulseIn_20191119_114408.txt
amp_mean	66455.2
amp_sigm	218.7
abs_gain	282.2
_	- ·
abs_gErr	21.3
G60_O120_Ch0_P	ulseIn_20191119_114541.txt
amp_mean	76029.3
amp_sigm	257.5
abs_gain	322.8
_	
abs_gErr	24.4
G45_O120_Ch0_P	ulseIn_20191119_114348.txt
amp_mean	61495
amp_sigm	196.8
abs_gain	261.1
abs_gErr	19.7
CE1 O120 Ch0 D	ulseIn_20191119_114715.txt
amp_mean	42200.9
amp_sigm	161.3
abs_gain	179.2
abs_gErr	13.6
CF1 O120 Ch0 P	ulseIn_20191119_114717.txt
amp_mean	42211.8
amp_niean amp_sigm	158
abs_gain	179.2
abs_gErr	13.6

CF1 O120 Ch0 P	ulseIn_20191119_114716.txt
amp_mean	42202.2
amp_sigm	155.2
abs_gain	179.2
abs_gErr	13.6
_0	
G20_O120_Ch0_P	ulseIn_20191119_114232.txt
amp_mean	32481.4
amp_sigm	97.01
abs_gain	137.9
abs_gErr	10.4
	ulseIn_20191119_114309.txt
amp_mean	45012.9
amp_sigm	145
abs_gain	191.1
abs_gErr	14.5
G5 O120 Ch0 Dii	lseIn_20191119_114143.txt
amp_mean	11071.1
amp_nican amp_sigm	37.76
amp_sigm abs_gain	47.01
abs_gErr	3.55
aus_grii	3.33
G55_O120_Ch(_El	RROR
amp_mean	3117.06
amp_sigm	3.49E+05
abs_gain	13.24
abs_gErr	1.48E+03
G55_O120_Ch(_El	D D O D
	-0.370337
amp_mean amp_sigm	30.08
amp_sigm abs_gain	-0.001572
abs_gErr	0.128
aus_grii	0.120
G40_O120_Ch0_P	ulseIn_20191119_114334.txt
amp_mean	56267
amp_sigm	189.5
abs_gain	238.9
abs_gErr	18.1
	lseIn_20191119_114141.txt
amp_mean	11067.3
amp_sigm	37.85
abs_gain	46.99
abs_gErr	3.55
G40_O120 Ch0 P	ulseIn_20191119_114331.txt
amp_mean	56280.8
amp_sigm	185
abs_gain	239
– 0	-

abs_gErr	18.1

G55_O120_Ch(_ERROR__

 amp_mean
 32690.6

 amp_sigm
 2680

 abs_gain
 138.8

 abs_gErr
 15.5

G60_O120_Ch0_PulseIn_20191119_114537.txt

 amp_mean
 76035.4

 amp_sigm
 254.8

 abs_gain
 322.8

 abs_gErr
 24.4

G35_O120_Ch0_PulseIn_20191119_114317.txt

 amp_mean
 50807.9

 amp_sigm
 163.5

 abs_gain
 215.7

 abs_gErr
 16.3

G60_O120_Ch0_PulseIn_20191119_114535.txt

 amp_mean
 76034.2

 amp_sigm
 258

 abs_gain
 322.8

 abs_gErr
 24.4

G55_O120_Ch(_ERROR__

 amp_mean
 518521

 amp_sigm
 1.70E+05

 abs_gain
 2202

 abs_gErr
 742

G5_O120_Ch0_PulseIn_20191119_114146.txt

 amp_mean
 11068.8

 amp_sigm
 37.55

 abs_gain
 47

 abs_gErr
 3.55

G40_O120_Ch0_PulseIn_20191119_114333.txt

 amp_mean
 56288.9

 amp_sigm
 182.9

 abs_gain
 239

 abs_gErr
 18.1

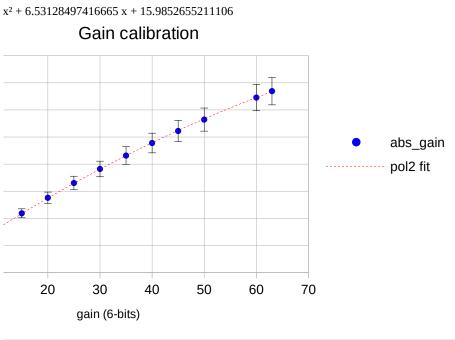
Transp_Ch0

25	30	35	40	45	50	55	60	63	CF1
38892.2	44988.8	50801.9	56275.2	61482.1	66455		76041.7	78795.8	42192.8
38889.7	44994.7	50819.4	56267	61505.5	66445.5		76032.2	78801.2	42217.2
38908.6	45003.5	50816.8	56280.8	61495	66459.6		76029.3	78821.7	42192.4
	45012.9	50807.9	56288.9		66455.2		76035.4	78797.8	42200.9
							76034.2		42211.8
									42202.2
38896.8	45000.0	50811.5	56278.0	61494.2	66453.8	#DIV/0!	76034.6	78804.1	42202.9
119.1	143.8	160.6	184.6	212.3	198.6		266.1	275.6	159.5
122.6	141.6	159.1	189.5	190.8	211.7		259.2	262	157.2
120.3	142.4	160.1	185	196.8	208.2		257.5	278.2	169.9
	145	163.5	182.9		218.7		254.8	260.7	161.3
							258		158
									155.2
120.7	143.2	160.8	185.5	200.0	209.3	#DIV/0!	259.1	269.1	160.2
165.1	191	215.7	238.9	261.1	282.2		322.9	334.6	179.2
165.1	191	215.8	238.9	261.2	282.1		322.8	334.6	179.3
165.2	191.1	215.8	239	261.1	282.2		322.8	334.7	179.2
	191.1	215.7	239		282.2		322.8	334.6	179.2
							322.8		
									1.80
165.1	191.1	215.8	239.0	261.1	282.2	#DIV/0!	322.8	334	1.00
12.5	14.4	16.3	18.1	19.7	21.3		24.4	2	1.60
12.5	14.4	16.3	18.1	19.7	21.3		24.4	2	1.40
12.5	14.4	16.3	18.1	19.7	21.3		24.4	2	
	14.5	16.3	18.1		21.3		24.4	2	€ 1.20
							24.4		9 1.00
									<u>∄</u> 1.00
12.5	14.4	16.3	18.1	19.7	21.3	#DIV/0!	24.4	2 5	0.80
x ² + 6 531284	197/16665 v -	+ 15 9852655	211106				7		(X) 1.20 1.00 0.80 0.60

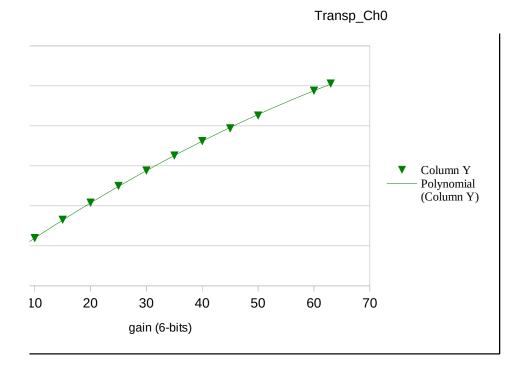
0.400

0.200

0.000

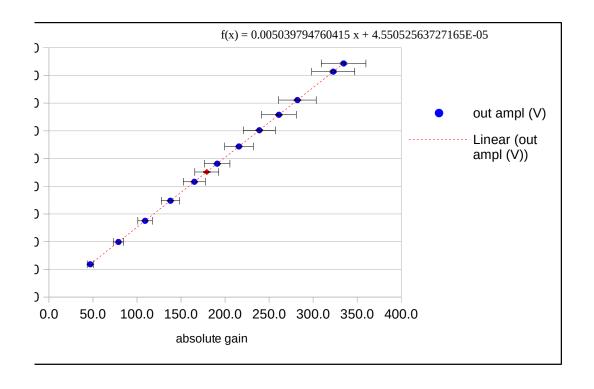


 $1.001779538040032 \ x^2 + 0.493061684457771 \ x + 1.21365222050934$



Transp_Ch0

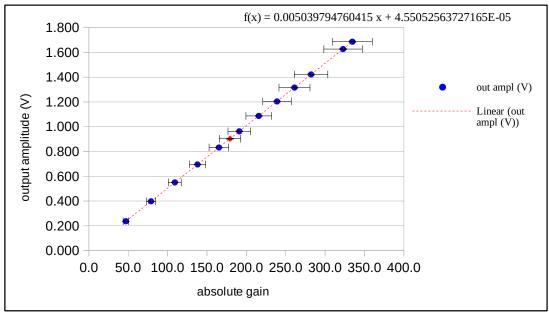
					1ADU=21.4uV
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)
5	11069.3	38.0	47.0	3.6	0.237
10	18591.8	60.8	78.9	6.0	0.398
15	25722.0	81.7	109.2	8.3	0.550
20	32488.7	101.4	138.0	10.4	0.695
25	38896.8	120.7	165.1	12.5	0.832
30	45000.0	143.2	191.1	14.4	0.963
35	50811.5	160.8	215.8	16.3	1.087
40	56278.0	185.5	239.0	18.1	1.204
45	61494.2	200.0	261.1	19.7	1.316
50	66453.8	209.3	282.2	21.3	1.422
55					
60	76034.6	259.1	322.8	24.4	1.627
63	78804.1	269.1	334.6	25.3	1.686
CF1	42202.9	160.2	179.2	13.6	0.903

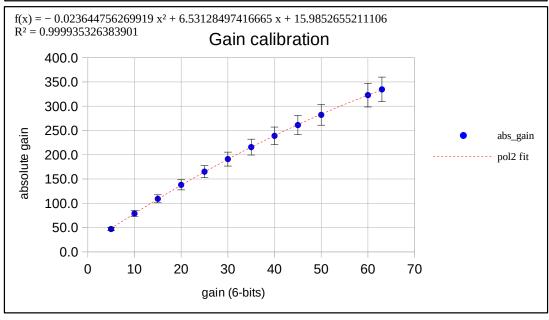


out error (V)
0.001
0.001
0.002
0.002
0.003
0.003
0.003
0.004
0.004
0.004
0.006
0.006
0.003

Transp_Ch0_results_20191119

					1ADU=21.4uV	
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)	out error (V)
5	11069.3	38.0	47.0	3.6	0.237	0.001
10	18591.8	60.8	78.9	6.0	0.398	0.001
15	25722.0	81.7	109.2	8.3	0.550	0.002
20	32488.7	101.4	138.0	10.4	0.695	0.002
25	38896.8	120.7	165.1	12.5	0.832	0.003
30	45000.0	143.2	191.1	14.4	0.963	0.003
35	50811.5	160.8	215.8	16.3	1.087	0.003
40	56278.0	185.5	239.0	18.1	1.204	0.004
45	61494.2	200.0	261.1	19.7	1.316	0.004
50	66453.8	209.3	282.2	21.3	1.422	0.004
55						
60	76034.6	259.1	322.8	24.4	1.627	0.006
63	78804.1	269.1	334.6	25.3	1.686	0.006
CF1	42202.9	160.2	179.2	13.6	0.903	0.003





CF1_O120_Ch1_PulseIn_20191119_114 amp_mean	917.txt
G35_O120_Ch1_PulseIn_20191119_115 amp_mean 50535.2 amp_sigm 173.3 abs_gain 214.6 abs_gErr 16.2	5111.txt
CF1_O120_Ch1_PulseIn_20191119_114 amp_mean	916.txt
G30_O120_Ch1_PulseIn_20191119_115 amp_mean	i057.txt
G45_O120_Ch1_PulseIn_20191119_115 amp_mean 61130.8 amp_sigm 215.2 abs_gain 259.6 abs_gErr 19.6	5138.txt
CF1_O120_Ch1_PulseIn_20191119_114 amp_mean	914.txt
G5_O120_Ch1_PulseIn_20191119_1149 amp_mean)34.txt
G35_O120_Ch1_PulseIn_20191119_115 amp_mean 50525.4 amp_sigm 179.5 abs_gain 214.5 abs_gErr 16.2	5112.txt
G40_O120_Ch1_PulseIn_20191119_115 amp_mean 55709.2 amp_sigm 194.5 abs_gain 236.5 abs_gErr 17.9	5126.txt

Gain	5	10	15
ampl mean	11019.2	18526.8	25640.3
	11019.1	18525.9	25643.9
	11014.9	18526.4	25639.9
	11021.1	18519	
	11018.6	18524.5	25641.4
ampl sigma	40.74	59.89	85.87
	41.71	60.99	84.62
	42.95	64.81	86.42
	42.54	60.31	
	42.0	61.5	85.6
abs gain	46.79	78.67	108.9
	46.79	78.66	108.9
	46.77	78.66	108.9
	46.8	78.63	
	46.8	<i>78.7</i>	108.9
abs gain Err	3.54	5.95	8.23
	3.54	5.95	8.23
	3.54	5.95	8.23
	3.54	5.95	
	3.5	6.0	8.2

G5_O120_Ch1_ amp_mean amp_sigm abs_gain abs_gErr	PulseIn_20191119_114931.txt 11019.1 41.71 46.79 3.54	
G5_O120_Ch1_ amp_mean amp_sigm abs_gain abs_gErr	PulseIn_20191119_114930.txt 11014.9 42.95 46.77 3.54	
	_PulseIn_20191119_115125.tx 55716.3 199 236.6 17.9	αt
G25_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	_PulseIn_20191119_115048.tx 38773.5 140.9 164.6 12.5	αt
G35_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	_PulseIn_20191119_115114.tx 50526.8 169.2 214.5 16.2	αt
G5_O120_Ch1_ amp_mean amp_sigm abs_gain abs_gErr	PulseIn_20191119_114933.txt 11021.1 42.54 46.8 3.54	
G55_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	_PulseIn_20191119_115206.tx 71371.2 250.6 303 22.9	αt
G60_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	_PulseIn_20191119_115220.tx 76205.2 270.9 323.6 24.5	αt
	_PulseIn_20191119_115008.tx 18526.8 59.89 78.67	αt

abs_gErr	5.95	
G20_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	L_PulseIn_20191 32373.7 109.8 137.5 10.4	l119_115034.txt
	L_PulseIn_20191 66374.1 229.7 281.8 21.3	1119_115156.txt
G60_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	L_PulseIn_20191 76181.3 275.3 323.5 24.5	.119_115221.txt
G55_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	L_PulseIn_20191 71420.2 285.2 303.3 22.9	1119_115207.txt
	L_PulseIn_20191 76201.8 265.6 323.6 24.5	l119_115223.txt
	L_PulseIn_20191 32360.5 103.4 137.4 10.4	l119_115036.txt
G50_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	L_PulseIn_20191 66369.3 230.8 281.8 21.3	l119_115155.txt
G55_O120_Ch1 amp_mean amp_sigm abs_gain abs_gErr	L_PulseIn_20191 71386.1 260.7 303.1 22.9	1119_115204.txt
G20_O120_Ch1 amp_mean amp_sigm	L_PulseIn_20191 32356.6 113.9	1119_115033.txt

	•	
abs_gain abs_gErr	137.4 10.4	
	_Ch1_PulseIn_20191119_115150.txt 66360.9 226.1 281.8 21.3	
	303.2	
	281.8	
G20_O120_ amp_mean amp_sigm abs_gain abs_gErr	Ch1_PulseIn_20191119_115031.txt 32372.7 109.9 137.5 10.4	
	_Ch1_PulseIn_20191119_115153.txt 66378.5 235.4 281.8 21.3	
G60_O120_ amp_mean amp_sigm abs_gain abs_gErr	_Ch1_PulseIn_20191119_115218.txt 76186.5 261.9 323.5 24.5	
G63_O120_ amp_mean amp_sigm abs_gain abs_gErr	_Ch1_PulseIn_20191119_115234.txt 78997.8 283.9 335.4 25.4	
G63_O120_ amp_mean amp_sigm abs_gain abs_gErr	_Ch1_PulseIn_20191119_115236.txt 78966.9 284.7 335.3 25.4	
G15_O120_ amp_mean	_Ch1_PulseIn_20191119_115019.txt	

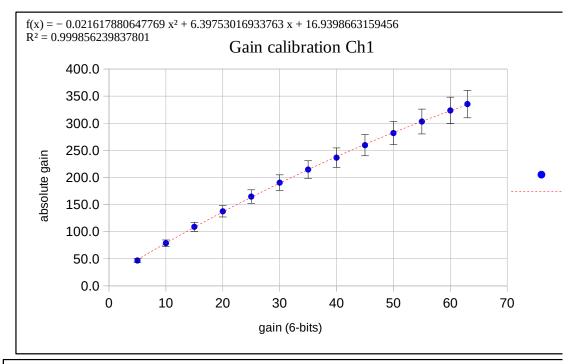
amp_sigm	85.87
abs_gain	108.9
abs_gErr	8.23
amp_mean	PulseIn_20191119_115209.txt 71386.4 257.1 303.1 22.9
G63_O120_Ch1_P	PulseIn_20191119_115233.txt
amp_mean	78979.8
amp_sigm	278.8
abs_gain	335.4
abs_gErr	25.4
amp_mean	PulseIn_20191119_115020.txt 25643.9 84.62 108.9 8.23
G10_O120_Ch1_P	rulseIn_20191119_115007.txt
amp_mean	18525.9
amp_sigm	60.99
abs_gain	78.66
abs_gErr	5.95
G45_O120_Ch1_P	PulseIn_20191119_115140.txt
amp_mean	61120.6
amp_sigm	208.6
abs_gain	259.5
abs_gErr	19.6
G10_O120_Ch1_P	PulseIn_20191119_115010.txt
amp_mean	18526.4
amp_sigm	64.81
abs_gain	78.66
abs_gErr	5.95
G15_O120_Ch1_P	PulseIn_20191119_115022.txt
amp_mean	25639.9
amp_sigm	86.42
abs_gain	108.9
abs_gErr	8.23
G10_O120_Ch1_P	PulseIn_20191119_115005.txt
amp_mean	18519
amp_sigm	60.31
abs_gain	78.63
abs_gErr	5.95
G63_O120_Ch1_P	ulseIn_20191119_115231.txt

amp_mean amp_sigm abs_gain abs_gErr	78945.5 291.3 335.2 25.4	
G40_O120_Ch: amp_mean amp_sigm abs_gain abs_gErr		1119_115129.txt
	1_PulseIn_2019 38765 134 164.6 12.4	1119_115044.txt
G25_O120_Ch: amp_mean amp_sigm abs_gain abs_gErr		1119_115045.txt
G40_O120_Chi amp_mean amp_sigm abs_gain abs_gErr		1119_115128.txt
G25_O120_Ch2 amp_mean amp_sigm abs_gain abs_gErr		1119_115047.txt
G30_O120_Ch2 amp_mean amp_sigm abs_gain abs_gErr	1_PulseIn_2019 44849.2 148 190.4 14.4	1119_115100.txt
G30_O120_Ch2 amp_mean amp_sigm abs_gain abs_gErr	1_PulseIn_2019 44847.4 151 190.4 14.4	1119_115101.txt
CF1_O120_Ch2 amp_mean amp_sigm abs_gain abs_gErr	1_PulseIn_2019 45987.1 179.9 195.3 14.8	1119_114920.txt

amp_mean	PulseIn_20191119_114918.txt 46000 186.3 195.3 14.8	t
amp_mean amp_sigm	PulseIn_20191119_115058.txt 44845.7 147.4 190.4 14.4	:t
amp_mean amp_sigm	PulseIn_20191119_115137.txt 61099.4 214.3 259.4 19.6	:t
amp_mean	PulseIn_20191119_115109.txt 50535.2 172.1 214.6 16.2	t

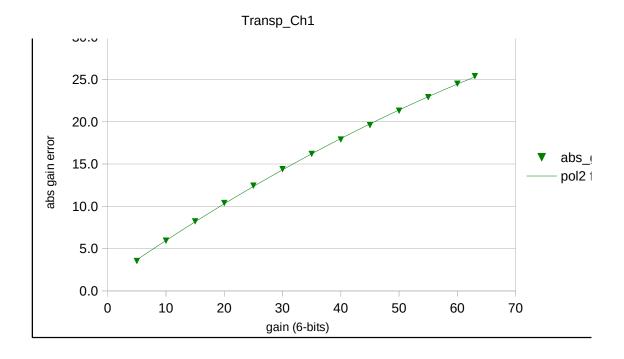
Transp_Ch1

20	25	30	35	40	45	50	55	60	63
32373.7	38773.5	44847.1	50535.2	55709.2	61130.8	66374.1	71371.2	76205.2	78997.8
32360.5	38765	44849.2	50525.4	55716.3	61120.6	66369.3	71420.2	76181.3	78966.9
32356.6	38780.4	44847.4	50526.8	55702.8	61099.4	66360.9	71386.1	76201.8	78979.8
32372.7	38769.5	44845.7	50535.2	55709.3		66371.5	71407.6	76186.5	78945.5
						66378.5	71386.4		
32365.9	38772.1	44847.4	50530.7	55709.4	61116.9	66370.9	71394.3	76193.7	78972.5
109.8	140.9	152	173.3	194.5	215.2	229.7	250.6	270.9	283.9
103.4	134	148	179.5	199	208.6	230.8	285.2	275.3	284.7
113.9	127.6	151	169.2	194.7	214.3	226.1	260.7	265.6	278.8
109.9	130	147.4	172.1	192.9		240	259.1	261.9	291.3
						235.4	257.1		
109.3	133.1	149.6	173.5	195.3	212.7	232.4	262.5	268.4	284.7
137.5	164.6	190.4	214.6	236.5	259.6	281.8	303	323.6	335.4
137.4	164.6	190.4	214.5	236.6	259.5	281.8	303.3	323.5	335.3
137.4	164.7	190.4	214.5	236.5	259.4	281.8	303.1	323.6	335.4
137.5	164.6	190.4	214.6	236.5		281.8	303.2	323.5	335.2
						281.8	303.1		
137.5	164.6	190.4	214.6	236.5	259.5	281.8	303.1	323.6	335.3
10.4	12.5	14.4	16.2	17.9	19.6	21.3	22.9	24.5	25.4
10.4	12.4	14.4	16.2	17.9	19.6	21.3	22.9	24.5	25.4
10.4	12.5	14.4	16.2	17.9	19.6	21.3	22.9	24.5	25.4
10.4	12.4	14.4	16.2	17.9		21.3	22.9	24.5	25.4
						21.3	22.9		
10.4	12.5	14.4	16.2	17.9	19.6	21.3	22.9	24.5	25.4



 $f(x) = -0.001600726899125 \ x^2 + 0.481687913094457 \ x + 1.30234404166357 \ R^2 = 0.999827632888045$

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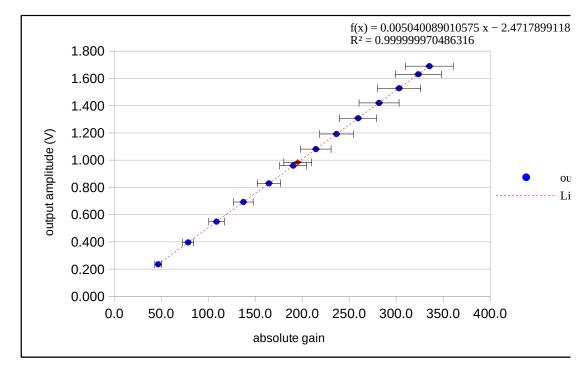


Transp_Ch1

CF1
45988.7
45994.8
46006.9
45987.1
46000
45995.5
188.9
185.7
187
179.9
186.3
185.6
195.3
195.3
195.3
195.3
195.3

					1ADU=21.4uV
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)
5	11018.6	42.0	46.8	3.5	0.236
10	18524.5	61.5	78.7	6.0	0.396
15	25641.4	85.6	108.9	8.2	0.549
20	32365.9	109.3	137.5	10.4	0.693
25	38772.1	133.1	164.6	12.5	0.830
30	44847.4	149.6	190.4	14.4	0.960
35	50530.7	173.5	214.6	16.2	1.081
40	55709.4	195.3	236.5	17.9	1.192
45	61116.9	212.7	259.5	19.6	1.308
50	66370.9	232.4	281.8	21.3	1.420
55	71394.3	262.5	303.1	22.9	1.528
60	76193.7	268.4	323.6	24.5	1.631
63	78972.5	284.7	335.3	25.4	1.690
CF1	45995.5	185.6	195.3	14.8	0.984

195.3
14.8
14.8
14.8
14.8
14.8
14.8



abs_gain -- pol2 fit gainErr fit

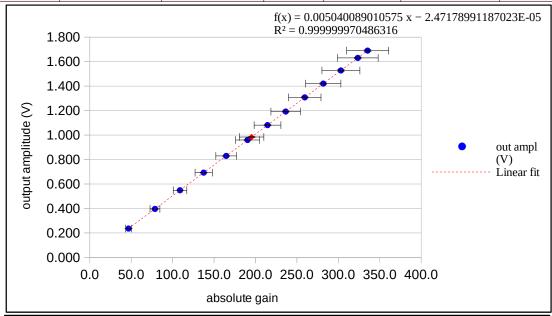
out error (V)
0.001
0.001
0.002
0.002
0.003
0.003
0.004
0.004
0.005
0.005
0.006
0.006
0.006
0.004

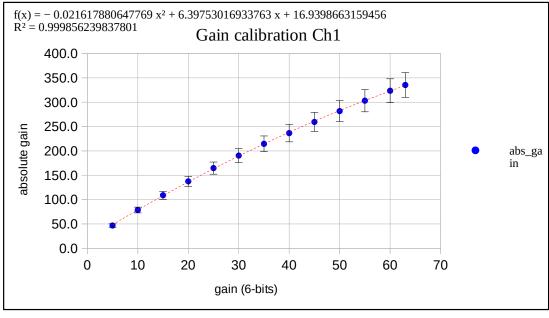
7023E-05

ıt ampl (V) near fit

Transp_Ch1_results_20191119

					1ADU=21.4uV	
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)	out error (V)
5	11018.6	42.0	46.8	3.5	0.236	0.001
10	18524.5	61.5	78.7	6.0	0.396	0.001
15	25641.4	85.6	108.9	8.2	0.549	0.002
20	32365.9	109.3	137.5	10.4	0.693	0.002
25	38772.1	133.1	164.6	12.5	0.830	0.003
30	44847.4	149.6	190.4	14.4	0.960	0.003
35	50530.7	173.5	214.6	16.2	1.081	0.004
40	55709.4	195.3	236.5	17.9	1.192	0.004
45	61116.9	212.7	259.5	19.6	1.308	0.005
50	66370.9	232.4	281.8	21.3	1.420	0.005
55	71394.3	262.5	303.1	22.9	1.528	0.006
60	76193.7	268.4	323.6	24.5	1.631	0.006
63	78972.5	284.7	335.3	25.4	1.690	0.006
CF1	45995.5	185.6	195.3	14.8	0.984	0.004





G60_O120_C	h2_PulseIn_20	191119_115703.txt
amp_mean	76610.2	
amp_sigm	250.5	
abs gain	325.3	
abs_gErr	24.6	
<u>-</u> 9		
G5 O120 Ch	2 Pulseln 201	.91119_115403.txt
amp_mean	11033.6	
amp_sigm	44.32	
abs_gain	46.85	
abs_gErr	3.54	
uso_g_::	0.0 .	
G5_Q120_Ch	2 Pulseln 201	.91119_115359.txt
amp mean	11034.9	.51115_115055.txt
amp_sigm	45.02	
abs_gain	46.85	
	3.54	
abs_gErr	3.54	
CE 0120 Ch	2 Dulcolo 201	.91119 115401.txt
		.91119_115401.txt
amp_mean	11033.9	
amp_sigm	45.8	
abs_gain	46.85	
abs_gErr	3.54	
G30_O120_C)191119_115529.txt
amp_mean	44735.7	
amp_sigm	161.3	
abs_gain	189.9	
abs_gErr	14.4	
G5 O120 Ch	2 PulseIn 201	.91119_115404.txt
amp_mean	11036.2	_
amp_sigm	41.71	
abs gain	46.86	
abs_gErr	3.54	
g	0.0 .	
G63 O120 C	h2 PulseIn 20)191119_115731.txt
amp_mean	79416.2	
amp_sigm	276.1	
abs_gain	337.2	
abs_garr	25.5	
abb_gEn	20.0	
G60 O120 C	h2 Pulseln 20)191119_115705.txt
amp_mean	76618.5	7131113_113703.000
amp_sigm	259.4	
abs_gain	325.3	
abs_gErr	24.6	
abs_gLII	24.0	
G60 O120 C	h2 Bulcoln 20	0191119_115659.txt
	76618.9)131112_T12028'IXI
amp_mean		
amp_sigm	262.5	
abs_gain	325.3	
abs_gErr	24.6	

Gain	5	10	15
ampl mean	11033.6	18542.6	25673.9
	11034.9	18546.1	
	11033.9		
	11036.2		
	11034.7	18544.4	25673.9
ampl sigma	44.32	64.82	83.3
b. 3-8	45.02	64.95	00.0
	45.8		
	41.71		
	44.2	64.9	83.3
abs gain	46.85	78.73	109
	46.85	78.75	
	46.85		
	46.86		
	46.9	<i>78.7</i>	109.0
aha gain Eag	3.54		8.24
abs gain Err	3.54	5.95 5.96	0.24
		5.96	
	3.54 3.54		
	3.54		
	3.5	6.0	8.2

G60 O120 C	:h2	Pulseln 20	191119_11565
amp mean		76598.9	,131113_11303
amp_sigm		260.5	
abs_gain		325.2	
abs_gam abs_gErr		24.6	
abs_gtn		24.0	
G63_O120_C	h2_	PulseIn_20	191119_11573
amp_mean		79413.8	
amp_sigm		275.8	
abs_gain		337.2	
abs_gErr		25.5	
C2F C120 C	\h2	Dulasia 20	101110 11554
	114_		191119_11554
amp_mean		50288.3	
amp_sigm		165.8	
abs_gain		213.5	
abs_gErr		16.1	
CE1 O120 C	h2	Pulseln 20	191119_11533
	112_	49657.2	11323
amp_mean			
amp_sigm		181.2	
abs_gain		210.8	
abs_gErr		15.9	
G10 O120 C	:h2	PulseIn 20	191119_11541
amp_mean		18542.6	_
amp_sigm		64.82	
abs_gain		78.73	
abs_gErr		5.95	
G40_O120_C	:h2_		191119_11560
amp_mean		55984.7	
amp_sigm		204.4	
abs_gain		237.7	
abs_gErr		18	
040 0455			404460 63=33
	:n2_		191119_11541
amp_mean		18546.1	
amp_sigm		64.95	
abs_gain		78.75	
abs_gErr		5.96	
G35 O120 C	:h2	PulseIn 20	191119_11555
amp_mean		50283.5	
amp_sigm		164.9	
abs gain		213.5	
abs_gErr		16.1	
	:h2_		191119_11541
amp_mean		18549.2	
amp_sigm		62.94	
abs_gain		78.76	

abs_gErr	5.96	
G15 O120 C	h2 Pulseln 20	191119_115430.txt
amp_mean	25673.9	131113_113430.txt
amp_sigm	83.3	
abs_gain	109	
abs_garr	8.24	
aus_yEII	0.24	
G15_O120_C	h2_PulseIn_20	191119_115431.txt
amp_mean	25667.8	
amp_sigm	84.13	
abs_gain	109	
abs_gErr	8.24	
		191119_115325.txt
amp_mean	49643.6	
amp_sigm	173.2	
abs_gain	210.8	
abs_gErr	15.9	
CF1_O120_C		191119_115321.txt
amp_mean	49659	
amp_sigm	174.1	
abs_gain	210.9	
abs_gErr	15.9	
		191119_115608.txt
amp_mean	61476.5	
amp_sigm	211.1	
abs_gain	261	
abs_gErr	19.7	
G40 O120 C	h2 PulseIn 20	191119 115559.txt
amp_mean	55975	
amp_sigm	179.1	
abs_gain	237.7	
abs gErr	18	
<u> </u>		
		191119_115558.txt
amp_mean	55970.9	
amp_sigm	180.5	
abs_gain	237.7	
abs_gErr	18	
CEE 0120 C	h2 Dulcola 20	101110 11E62E 5#
		191119_115635.txt
amp_mean	71787 236.7	
amp_sigm abs_gain	304.8	
abs_gam abs_gErr	23	
aus_y⊏II	23	
G15 O120 C	h2 PulseIn 20	191119_115434.txt
amp mean	25667.2	
amp_sigm	90.57	
	, , , , ,	

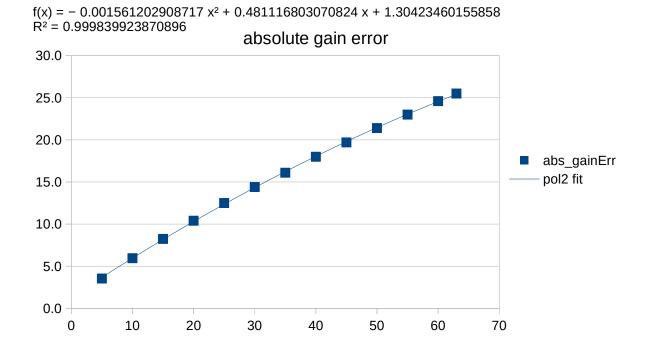
abs_gain	109	
abs gErr	8.24	
G63 O120 C	h2 PulseIn 20	191119_115751.txt
amp mean	79413.9	_
amp_sigm	267.2	
abs gain	337.2	
abs_gErr	25.5	
G55 O120 C	h2 PulseIn 20	191119_115637.txt
amp_mean	71785.6	_
amp_sigm	249.5	
abs gain	304.8	
abs_gErr	23	
_g		
G63 O120 C	h2 PulseIn 20	191119_115750.txt
amp_mean	79426.9	
amp_sigm	271.9	
abs_gain	337.2	
abs_garr	25.5	
abs_gL11	25.5	
G45_0120_0	h2 Bulsain 20	 191119_115613.txt
amp mean	61488.4	
amp_sigm	206.7	
ahs_gain	261.1	
	19.7	
abs_gErr	19.7	
C10 O130 C	h2 Bulcoln 20) 191119_115420.txt
amp_mean	18536.1	191119_115420.(X
amp_sigm	63.08	
abs_gain	78.71	
abs_garr	5.95	
abs_gEn	5.95	
G45 O120 C	h2 Pulseln 20	 191119
amp_mean	61491.3	131113_113010.00
amp_sigm	204.5	
abs_gain	261.1	
abs_garr	19.7	
abs_gEn	13.1	
G50 O120 C	h2 Pulseln 20) 191119_115623.txt
amp_mean	66723.4	
amp_sigm	232.1	
abs_gain	283.3	
abs_garr	21.4	
abs_gEn	21.4	
G55 O120 C	h2 Dulsala 20) 191119_115638.txt
amp_mean	71764.5	, 1011119_11000.txt
	251.4	
amn ciam	201.4	
amp_sigm		
abs_gain	304.7	
abs_gain abs_gErr	304.7 23	101110 115611 +
abs_gain abs_gErr	304.7 23)191119_115611.txt

amp_sigm	210.9	
abs_gain	261.1	
abs_gErr	19.7	
G35_O120_C	h2_PulseIn_20	191119_115549.txt
amp_mean	50286.4	
amp_sigm	177.7	
abs_gain	213.5	
abs gErr	16.1	
CF1 O120 C	h2 PulseIn 20	191119_115328.txt
amp_mean	49665.6	_
amp_sigm	175.8	
abs gain	210.9	
abs_gErr	15.9	
abo_gEn	10.0	
G15 O120 C	h2 Pulseln 20) 191119_115428.txt
amp_mean	25678.3	131113_113+20.txt
amp_sigm	86.74	
ahs_gain	109	
	8.24	
abs_gErr	0.24	
C2E 0120 C	h2 Dulcoln 20) 191119_115548.txt
		1191119_115546.txt
amp_mean	50308.9	
amp_sigm	171.1	
abs_gain	213.6	
abs_gErr	16.2	
CEO 0100 C	In C. Diving line 20	101110 115005 5.4
		191119_115625.txt
amp_mean	66728.5	
amp_sigm	229	
abs_gain	283.3	
abs_gErr	21.4	
050 0400 0		404440 445004
)191119_115624.txt
amp_mean	66723.9	
amp_sigm	227.2	
abs_gain	283.3	
abs_gErr	21.4	
		191119_115419.txt
amp_mean	18544.4	
amp_sigm	64.11	
abs_gain	78.74	
abs_gErr	5.95	
		191119_115316.txt
amp_mean	49664.4	
amp_sigm	169.5	
abs_gain	210.9	
abs_gErr	15.9	
G60_O120_C	h2_PulseIn_20	191119_115656.txt
		

amp_mean	76588.9	
amp_sigm	259.4	
abs_gain	325.2	
abs_gErr	24.6	
G25 O120 C	h2 PulseIn 20	191119_115511.txt
amp_mean	38788.7	_
amp_sigm	124.4	
abs_gain	164.7	
abs_gErr	12.5	
<u> </u>		
G20 O120 C	h2 PulseIn 20	191119_115454.txt
amp mean	32390.1	7101110_110 10 11010
amp_sigm	105	
abs gain	137.5	
abs_gam	10.4	
abs_gEn	10.4	
G25 O120 C	h2 Dulcoln 20)191119_115513.txt
amp mean	38789.1	, 10 1 1 1 2 _ 1 1 0 1 0 1 KI
amp_sigm	126.2	
	164.7	
abs_gain	12.5	
abs_gErr	12.5	
C20, O120, C	ha Dulaala ac	1101110 11E4EE 5.4
)191119_115455.txt
amp_mean	32397.2	
amp_sigm	109.9	
abs_gain	137.6	
abs_gErr	10.4	
C62 O120 C	h2 Dulcoln 20)191119_115728.txt
	79418.1)191119_115 <i>1</i> 28.lXl
amp_mean		
amp_sigm	262.6	
abs_gain	337.2	
abs_gErr	25.5	
G25 O120 C	h2 Bulcola 20)191119_115516.txt
	38792.6	ιτατττα_ττσοτοιίχι
amp_mean	128.8	
amp_sigm		
abs_gain	164.7	
abs_gErr	12.5	
G25 O120 C	h2 Dulcela 20)191119_115517.txt
	38791.3	,±3±±±3_±±33±1.lXl
amp_mean		
amp_sigm	137.3 164.7	
abs_gain	104.7	
abs_gErr	12.5	
G20 O120 C	h2 PulseIn 20)191119_115450.txt
amp_mean	32375.8	,131.UC+31.T3_11343U.IXI
	105.4	
amp_sigm abs gain	137.5	
	137.5	
abs_gErr	10.4	

G30_O120_C	h2_PulseIn_20	191119_115530.txt
amp_mean	44734.1	
amp_sigm	153	
abs_gain	189.9	
abs_gErr	14.4	
		191119_115532.txt
amp_mean	44738.2	
amp_sigm	161.2	
abs_gain	190	
abs_gErr	14.4	
		191119_115452.txt
amp_mean	32378	
amp_sigm	107.4	
abs_gain	137.5	
abs_gErr	10.4	
		191119_115514.txt
amp_mean	38789	
amp_sigm	152.2	
abs_gain	164.7	
abs_gErr	12.5	
		191119_115533.txt
amp_mean	44741.6	
amp_sigm	164.3	
abs_gain	190	
abs_gErr	14.4	

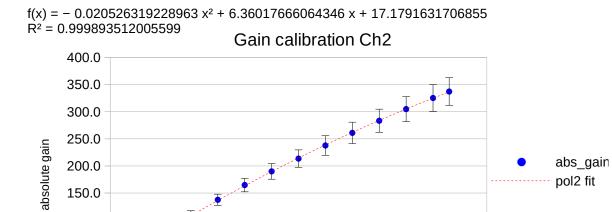
20	25	30	35	40	45	50	55	60	63	CF1
32390.1	38788.7	44735.7	50288.3	55984.7	61476.5	66723.4	71787	76610.2	79416.2	49657.2
			50283.5					76618.5	79413.8	
								76618.9		
								76598.9		
32390.1	38788.7	44735.7	50285.9	<i>55984.7</i>	61476.5	66723.4	71787.0	76611.6	79415.0	49657.2
105	124.4	161.3	165.8	204.4	211.1	232.1	236.7	250.5	276.1	181.2
			164.9					259.4	275.8	
								262.5		
								260.5		
105.0	124.4	161.3	165.4	204.4	211.1	232.1	236.7	258.2	276.0	181.2
137.5	164.7	189.9	213.5	237.7	261	283.3	304.8	325.3	337.2	210.8
			213.5					325.3	337.2	
								325.3		
								325.2		
137.5	164.7	189.9	213.5	237.7	261.0	283.3	304.8	325.3	227.2	210.8
									337.2	
10.4	12.5	14.4	16.1	18	19.7	21.4	23	24.6	25.5	15.9
			16.1					24.6	25.5	
								24.6		
								24.6		
10.4	12.5	14.4	16.1	18.0	19.7	21.4	23.0	24.6	25.5	15.9



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Transp_Ch2

Channel 2									
1ADU=21.4uV									
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)	out error (V)			
5	11034.7	44.2	46.9	3.5	0.236	0.001			
10	18544.4	64.9	78.7	6.0	0.397	0.001			
15	25673.9	83.3	109.0	8.2	0.549	0.002			
20	32390.1	105.0	137.5	10.4	0.693	0.002			
25	38788.7	124.4	164.7	12.5	0.830	0.003			
30	44735.7	161.3	189.9	14.4	0.957	0.003			
35	50285.9	165.4	213.5	16.1	1.076	0.004			
40	55984.7	204.4	237.7	18.0	1.198	0.004			
45	61476.5	211.1	261.0	19.7	1.316	0.005			
50	66723.4	232.1	283.3	21.4	1.428	0.005			
55	71787.0	236.7	304.8	23.0	1.536	0.005			
60	76611.6	258.2	325.3	24.6	1.639	0.006			
63	79415.0	276.0	337.2	25.5	1.699	0.006			
CF1	49657.2	181.2	210.8	15.9	1.063	0.004			



50

40

60

70

20

30

gain (6-bits)

10

100.0

50.0

0.0 + 0.0

G35 O120 C	h3 PulseIn 20191119 121145.tx
amp_mean	50013.4
amp_sigm	176.7
abs_gain	212.4
abs_gErr	16.1
G45_O120_C	h3_PulseIn_20191119_121231.tx
amp_mean	61138.3
amp_sigm	204.5
abs_gain	259.6
abs_gErr	19.6
G40_O120_C	h3_PulseIn_20191119_121217.tx
amp_mean	55686.5
amp_sigm	190.5
abs_gain	236.4
abs_gErr	17.9
_0	
G15_O120_C	h3 Pulseln 20191119 121031.tx
amp_mean	25529.5
amp_sigm	87.87
abs gain	108.4
abs_gErr	8.2
<u></u> 9	
G35 O120 C	h3 PulseIn 20191119 121144.tx
amp_mean	49991.7
amp_sigm	166.5
abs_gain	212.3
abs_gam abs gErr	16.1
abo_g_n	10.1
G15 O120 C	h3 PulseIn 20191119 121033.tx
amp_mean	25527.1
amp_sigm	85.97
abs_gain	108.4
abs gErr	8.2
G40_O120_C	h3_PulseIn_20191119_121215.tx
amp_mean	55656.2
amp_sigm	197.4
abs_gain	236.3
abs_gErr	17.9
	h3_PulseIn_20191119_121233.tx
amp_mean	61120.9
amp_sigm	213.5
abs_gain	259.5
abs_gErr	19.6
	h3_PulseIn_20191119_121349.tx
amp_mean	76071
amp_sigm	263.7
abs_gain	323

Gain	5	10	15
ampl mean	10966.2	18442.1	25529.5
	10966.2	18442.1	25529.5
ampl sigma	39.95	62.14	87.87
	40.0	62.1	87.9
abs gain	46.56	78.31	108.4
	46.6	78.3	108.4
abs gain Err	3.52	5.92	8.2
<i>6</i> -			
	3.5	5.9	8.2
	2.0	5.0	J.2

		'-
abs_gErr	24.4	
C2E 0120 C	h2 Dulcoln 20)191119_121147.txt
amp_mean	50016	191119_121147.txt
amp_sigm	177.4	
ahs_gain	212.4	
	16.1	
abs_gErr	10.1	
G15_O120_C	h3_PulseIn_20	191119_121036.txt
amp_mean	25515.5	
amp_sigm	84.43	
abs_gain	108.3	
abs_gErr	8.19	
C45 0120 C	h2 Dulcoln 20)191119_121236.txt
amp mean	61134.2	1X1.UCZTZT_ETTET
amp_sigm	210 259.6	
abs_gain		
abs_gErr	19.6	
G63_O120_C	h3_PulseIn_20	191119_121408.txt
amp_mean	78892	
amp_sigm	281.7	
abs_gain	335	
abs_gErr	25.3	
)191119_121035.txt
amp_mean	25528.3	
amp_sigm	85.57	
abs_gain	108.4	
abs_gErr	8.2	
G45 O120 C	h3 PulseIn 20)191119 121234.txt
amp mean	61135.2	_
amp sigm	218.6	
abs_gain	259.6	
abs_gErr	19.6	
)191119_121332.txt
amp_mean	71343	
amp_sigm	238.7	
abs_gain	302.9	
abs_gErr	22.9	
G20 O120 C	h3 PulseIn 20)191119 121048.txt
amp mean	32200.2	
amp_sigm	110.5	
abs_gain	136.7	
abs gErr	10.3	
	10.0	
G30_O120_C		191119_121114.txt
amp_mean	44302.6	
amp_sigm	171	

abs_gain	188.1	
abs_gErr	14.2	
G55_O120_C	h3_PulseIn_20	191119_121331.txt
amp_mean	71314.4	
amp_sigm	244.8	
abs_gain	302.8	
abs_gErr	22.9	
G30_O120_C	h3 PulseIn 20	191119_121116.txt
amp_mean	44305.9	_
amp_sigm	165.3	
abs_gain	188.1	
abs_gErr	14.2	
_9		
G55 O120 C	h3 PulseIn 20	191119_121334.txt
amp mean	71329	
amp_sigm	245.1	
abs gain	302.9	
abs_gam	22.9	
abs_gEn	22.5	
G30, O120, C	h3 Pulseln 20)191119_121113.txt
amp mean	44307.2	7131113_121113.171
amp_sigm	175	
abs_gain	188.1	
abs_gam	14.2	
abs_gLII	14.2	
G5 O120 Ch	2 Dulcoln 201	.91119_121007.txt
amp_mean	10965.2	131113_121007.100
amp_sigm	41.87	
amp_sigm		
ahe nain		
abs_gain	46.56	
abs_gain abs_gErr		
abs_gErr	46.56 3.52)191119 121335 tvt
abs_gErr G55_O120_C	46.56 3.52 h3_PulseIn_20)191119_121335.txt
abs_gErr G55_O120_C amp_mean	46.56 3.52 h3_PulseIn_20 71339.8)191119_121335.txt
abs_gErr G55_O120_C amp_mean amp_sigm	46.56 3.52 h3_PulseIn_20 71339.8 256)191119_121335.txt
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain	46.56 3.52 n3_PulseIn_20 71339.8 256 302.9)191119_121335.txt
abs_gErr G55_O120_C amp_mean amp_sigm	46.56 3.52 h3_PulseIn_20 71339.8 256	0191119_121335.txt
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr	46.56 3.52 h3_PulseIn_20 71339.8 256 302.9 22.9	_
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch	46.56 3.52 n3_PulseIn_20 71339.8 256 302.9 22.9	.91119_121335.txt
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean	46.56 3.52 n3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6	_
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm	46.56 3.52 h3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83	_
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain	46.56 3.52 h3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56	_
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm	46.56 3.52 h3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83	_
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gain	46.56 3.52 n3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56 3.52	
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gain abs_garr	46.56 3.52 h3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56 3.52	_
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gain abs_gain abs_gain	46.56 3.52 h3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56 3.52 3_PulseIn_201 10963.7	– .91119_121010.txt
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gain abs_gerr G5_O120_Ch amp_mean amp_sigm	46.56 3.52 n3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56 3.52 3_PulseIn_201 10963.7 39.99	– .91119_121010.txt
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gain abs_gerr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gain	46.56 3.52 n3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56 3.52 3_PulseIn_201 10963.7 39.99 46.55	– .91119_121010.txt
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gain abs_gain abs_gerr G5_O120_Ch amp_mean amp_sigm	46.56 3.52 n3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56 3.52 3_PulseIn_201 10963.7 39.99	– .91119_121010.txt
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gerr G5_O120_Ch amp_mean amp_sigm abs_gerr	46.56 3.52 h3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56 3.52 3_PulseIn_201 10963.7 39.99 46.55 3.52	91119_121010.txt
abs_gErr G55_O120_C amp_mean amp_sigm abs_gain abs_gErr G5_O120_Ch amp_mean amp_sigm abs_gain abs_gerr G5_O120_Ch amp_mean amp_sigm abs_gerr	46.56 3.52 h3_PulseIn_20 71339.8 256 302.9 22.9 3_PulseIn_201 10966.6 40.83 46.56 3.52 3_PulseIn_201 10963.7 39.99 46.55 3.52	– .91119_121010.txt

amp_sigm	228.7	
abs_gain	281.8	
abs_gErr	21.3	
G5_O120_Ch	3_PulseIn_201	91119_121008.txt
amp_mean	10966.2	
amp_sigm	39.95	
abs_gain	46.56	
abs gErr	3.52	
G50 O120 C	h3 PulseIn 20	191119_121321.txt
amp_mean	66344.4	
amp_sigm	232	
abs gain	281.7	
abs gErr	21.3	
_g		
G50 O120 C	h3 Pulseln 20	191119_121323.txt
amp_mean	66323	_
amp_sigm	241.7	
abs_gain	281.6	
abs_gairi	21.3	
aus_y⊏n	21.3	
C25 O120 C	h2 Dulcoln 20	101110 121104 tvt
	38549.6	191119_121104.txt
amp_mean		
amp_sigm	128.5	
abs_gain	163.7	
abs_gErr	12.4	
C25 0120 C	ho Dulanta oc	101110 101050 5.4
		191119_121059.txt
amp_mean	38532.3	
amp_sigm	133	
abs_gain	163.6	
abs_gErr	12.4	
005 0400 0		404440 404404
)191119_121101.txt
amp_mean	38560.9	
amp_sigm	133.8	
abs_gain	163.7	
abs_gErr	12.4	
		191119_121047.txt
amp_mean	32195.3	
amp_sigm	106.5	
abs_gain	136.7	
abs_gErr	10.3	
		191119_121045.txt
amp_mean	32191.2	
amp_sigm	113.2	
abs_gain	136.7	
abs_gErr	10.3	
G25_O120_C	h3_PulseIn_20	191119_121102.txt

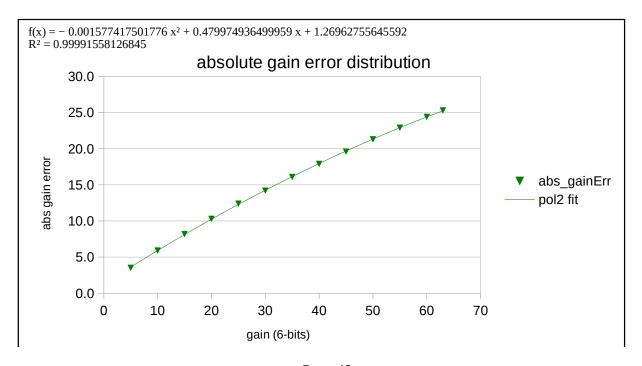
amp_mean	38551	
amp_sigm	130.1	
abs_gain	163.7	
abs_gErr	12.4	
_9		
G30 O120 C	h3 PulseIn 20	191119_121118.txt
amp_mean	44313	_
amp_sigm	168.8	
abs gain	188.2	
abs_gErr	14.2	
G50 O120 C	h3 PulseIn 20	191119_121318.txt
amp mean	66347.5	_
amp_sigm	245	
abs gain	281.7	
abs_garr	21.3	
ubb_gEn	21.0	
G10 O120 C	h3 PulseIn 20	191119_121022.txt
amp_mean	18442.1	
amp_sigm	62.14	
abs_gain	78.31	
abs_gErr	5.92	
abo_g_n	0.02	
G10 O120 C	h3 PulseIn 20	191119_121023.txt
amp mean	18441.8	
amp_sigm	63.56	
abs gain	78.3	
abs_garr	5.92	
abs_g_n	0.02	
G63 O120 C	h3 PulseIn 20	191119_121405.txt
amp_mean	78886.6	
amp_sigm	270.3	
abs gain	335	
abs_gErr	25.3	
_g		
G40 O120 C	h3 PulseIn 20	191119 121220.txt
amp mean	55680.4	
amp sigm	207	
abs_gain	236.4	
abs_gErr	17.9	
	17.13	
G10 O120 C	h3 PulseIn 20	191119 121020.txt
amp_mean	18449.6	
amp_sigm	61.83	
abs gain	78.34	
abs_gam	5.92	
_9_11	3.32	
G63 O120 C	h3 PulseIn 20	191119_121406.txt
amp_mean	78904.6	
amp_sigm	291.5	
abs_gain	335	
abs_gam	25.3	
	25.5	
		I

G60_O120_C		191119_121350.txt
amp_mean	76101.6	
amp_sigm	254.5	
abs_gain	323.1	
abs_gErr	24.4	
G63_O120_C	h3_PulseIn_20	191119_121402.txt
amp_mean	78891.1	
amp_sigm	291.9	
abs_gain	335	
abs_gErr	25.3	
G10_O120_C	h3_PulseIn_20	191119_121018.txt
amp_mean	18442.1	
amp_sigm	61.82	
abs_gain	78.31	
abs_gErr	5.92	
G40_O120_C		191119_121218.txt
amp_mean	55679.2	
amp_sigm	180.9	
abs_gain	236.4	
abs_gErr	17.9	
		191119_121403.txt
amp_mean	78853.3	
amp_sigm	277.9	
abs_gain	334.8	
abs_gErr	25.3	
CC0 0120 C	ha Dulasia ac	101110 101047 54
	76116.3	191119_121347.txt
amp_mean		
amp_sigm	266.1	
abs_gain	323.2	
abs_gErr	24.4	
G60 O120 C	h2 Dulcola 20) 191119_121353.txt
amp_mean	76097.4	, 121112_12133.lXl
amp_sigm	263	
abs_gain	323.1	
abs_garr	24.4	
abs_gEn	24.4	
G63 O120 C	h3 PulseIn 20	191119_121400.txt
amp_mean	78917.7	
amp_sigm	286.4	
abs gain	335.1	
abs gErr	25.3	
3		
G60_O120 C	h3_PulseIn 20	191119_121352.txt
amp_mean	76108.3	_
amp_sigm	260	
abs gain	323.2	
abs_gErr	24.4	
	I	1

Transp_Ch3

G60_O120_C	h3_PulseIn_20	191119_121346.txt
amp_mean	76101.9	
amp_sigm	251.5	
abs_gain	323.1	
abs_gErr	24.4	
G35_O120_C	h3_PulseIn_20	191119_121148.txt
amp_mean	50012.2	
amp_sigm	163.8	
abs_gain	212.4	
abs gErr	16.1	

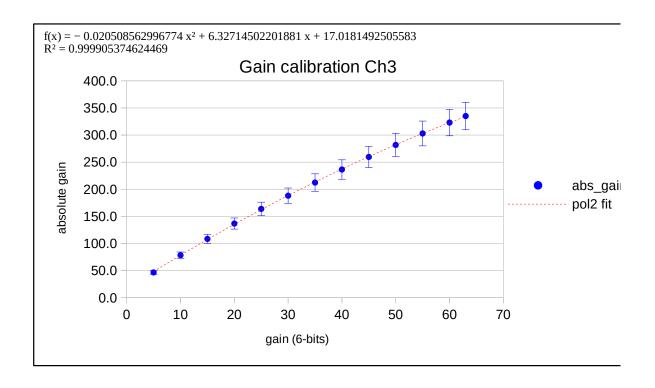
20	25	30	35	40	45	50	55	60	63	CF1
32200.2	38549.6	44302.6	50013.4	55686.5	61138.3	66344.4	71343	76071	78892	
32200.2	38549.6	44302.6	50013.4	55686.5	61138.3	66344.4	71343.0	76071.0	78892.0	#DIV/0.
110.5	128.5	171	176.7	190.5	204.5	232	238.7	263.7	281.7	
440 =	400 =	4=4.0	4=0=	400 =	201 =	222.0	222 =	262 =	201 =	"D TT 1/0
110.5	128.5	171.0	176.7	190.5	204.5	232.0	238.7	263.7	281.7	#DIV/0!
136.7	163.7	188.1	212.4	236.4	259.6	281.7	302.9	323	335	
136.7	163.7	188.1	212.4	236.4	259.6	281.7	302.9	323.0	335.0	#DIV/0!
10.3	12.4	14.2	16.1	17.9	19.6	21.3	22.9	24.4	25.3	// DI 1/0.
10.5	14.4	14.2	10.1	17.3	13.0	۷.1	22.3	24,4	د.دے	
40.5	40.4	4.4.5	40.1	45.0	40.0	24.2	22.5	24.4	0.5	//D TT 7/0
10.3	12.4	14.2	16.1	17.9	19.6	21.3	22.9	24.4	25.3	#DIV/0!



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Transp_Ch3

Channel 3						
					1ADU=21.4uV	
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)	out error (V)
5	10966.2	40.0	46.6	3.5	0.235	0.001
10	18442.1	62.1	78.3	5.9	0.395	0.001
15	25529.5	87.9	108.4	8.2	0.546	0.002
20	32200.2	110.5	136.7	10.3	0.689	0.002
25	38549.6	128.5	163.7	12.4	0.825	0.003
30	44302.6	171.0	188.1	14.2	0.948	0.004
35	50013.4	176.7	212.4	16.1	1.070	0.004
40	55686.5	190.5	236.4	17.9	1.192	0.004
45	61138.3	204.5	259.6	19.6	1.308	0.004
50	66344.4	232.0	281.7	21.3	1.420	0.005
55	71343.0	238.7	302.9	22.9	1.527	0.005
60	76071.0	263.7	323.0	24.4	1.628	0.006
63	78892.0	281.7	335.0	25.3	1.688	0.006
CF1						



n

amp_mean	Ch0_DSI_PulseIn_20191119_135051.txt 52576.1 35.31 0.487 0.052
G15_RC5_O120_C	ch0_DSI_PulseIn_20191119_135052.txt
amp_mean	52571.1
amp_sigm	34.61
RCtconst	0.487
RCtmcErr	0.052
amp_mean	ch0_DSI_PulseIn_20191119_135108.txt 65484.8 55.71 0.391 0.042
G15_RC9_O120_C	ch0_DSI_PulseIn_20191119_135109.txt
amp_mean	65485.7
amp_sigm	54.71
RCtconst	0.391
RCtmcErr	0.042
G15_RC7_O120_C	Ch0_DSI_PulseIn_20191119_135059.txt
amp_mean	56001.8
amp_sigm	39.26
RCtconst	0.457
RCtmcErr	0.049
amp_mean	39.11
amp_sigm	0.457
G15_RC7_O120_C	ch0_DSI_PulseIn_20191119_135100.txt
amp_mean	55998.1
amp_sigm	38.25
RCtconst	0.457
RCtmcErr	0.049
G15_RC11_O120_	Ch0_DSI_PulseIn_20191119_135118.txt
amp_mean	68792.7
amp_sigm	62.85
RCtconst	0.372
RCtmcErr	0.04
G15_RC19_O120_	Ch0_DSI_PulseIn_20191119_135230.txt
amp_mean	88216.3
amp_sigm	106.3
RCtconst	0.29
RCtmcErr	0.031

RC	1	3
amp mean	44315.4	47930.7
	44312	47925
	44311.5	47927.1
	44313.0	47927.6
amp sigma	28.2	28.96
	28.25	28.2
	27.98	28.21
	28.1	28.5
RC	0.577	0.534
	0.577	0.534
	0.577	0.534
	0.577	0.534
Rcerr	0.062	0.057
	0.062	0.057
	0.062	0.057
	0.062	0.057

```
G15_RC25_O120_Ch0_DSI_PulseIn_20191119_135302.txt
                 103796
amp_mean
amp_sigm
                   155.1
                   0.246
RCtconst
                   0.026
RCtmcErr
G15 RC1 O120 Ch0 DSI PulseIn 20191119 135024.txt
                44315.4
amp mean
amp_sigm
                    28.2
RCtconst
                   0.577
RCtmcErr
                   0.062
G15_RC1_O120_Ch0_DSI_PulseIn_20191119_135025.txt
                  44312
amp mean
amp_sigm
                   28.25
RCtconst
                   0.577
                   0.062
RCtmcErr
G15_RC25_O120_Ch0_DSI_PulseIn_20191119_135303.txt
                 103785
amp_mean
amp_sigm
                   156.3
RCtconst
                   0.247
RCtmcErr
                  0.026
G15 RC27 O120 Ch0 DSI PulseIn 20191119 135309.txt
                 106845
amp mean
amp_sigm
                   166.5
RCtconst
                   0.239
RCtmcErr
                   0.026
G15_RC19_O120_Ch0_DSI_PulseIn_20191119_135231.txt
                88225.3
amp_mean
amp_sigm
                   108.7
RCtconst
                    0.29
RCtmcErr
                  0.031
G15_RC19_O120_Ch0_DSI_PulseIn_20191119_135227.txt
                88219.7
amp_mean
amp_sigm
                   105.7
                    0.29
RCtconst
                   0.031
RCtmcErr
G15 RC3_O120_Ch0_DSI_PulseIn_20191119_135039.txt
                47930.7
amp_mean
amp_sigm
                   28.96
                   0.534
RCtconst
                   0.057
RCtmcErr
G15_RC23_O120_Ch0_DSI_PulseIn_20191119_135255.txt
                95287.4
amp_mean
amp_sigm
                   125.2
                   0.269
RCtconst
```

RCtmcErr 0.029 G15_RC23_O120_Ch0_DSI_PulseIn_20191119_135254.txt 95292 amp_mean 130 amp_sigm 0.268 RCtconst **RCtmcErr** 0.029 G15_RC25_O120_Ch0_DSI_PulseIn_20191119_135300.txt 103786 amp_mean amp_sigm 165.2 **RCtconst** 0.247 RCtmcErr 0.026 G15 RC17 O120 Ch0 DSI PulseIn 20191119 135212.txt 85114.1 amp_mean amp_sigm 97.77 0.301 **RCtconst RCtmcErr** 0.032 G15_RC23_O120_Ch0_DSI_PulseIn_20191119_135251.txt 95291.6 amp_mean amp_sigm 124.2 RCtconst 0.268 **RCtmcErr** 0.029 G15_RC1_O120_Ch0_DSI_PulseIn_20191119_135023.txt 44311.5 amp_mean

amp_sigm 27.98 0.577 **RCtconst** RCtmcErr 0.062

G15_RC17_O120_Ch0_DSI_PulseIn_20191119_135213.txt

amp_mean 85120.1 amp_sigm 100.6 **RCtconst** 0.301 **RCtmcErr** 0.032

G15_RC17_O120_Ch0_DSI_PulseIn_20191119_135211.txt

amp_mean 85108.6 amp_sigm 102.1 RCtconst 0.301 **RCtmcErr** 0.032

G15_RC23_O120_Ch0_DSI_PulseIn_20191119_135253.txt

95299.8 amp_mean 122.2 amp_sigm 0.268 **RCtconst RCtmcErr** 0.029

G15 RC21 O120 Ch0 DSI PulseIn 20191119 135241.txt

amp_mean 92293.8 amp_sigm 114.8

RCtconst RCtmcErr	0.277 0.03	
G15_RC15_O120 amp_mean amp_sigm RCtconst RCtmcErr		_PulseIn_20191119_135203.txt
G15_RC29_O120 amp_mean amp_sigm RCtconst RCtmcErr		_PulseIn_20191119_135318.txt
G15_RC31_O120 amp_mean amp_sigm RCtconst RCtmcErr		_PulseIn_20191119_135334.txt
G15_RC15_O120 amp_mean amp_sigm RCtconst RCtmcErr		_PulseIn_20191119_135201.txt
G15_RC21_O120 amp_mean amp_sigm RCtconst RCtmcErr		_PulseIn_20191119_135243.txt
amp_mean amp_sigm RCtconst RCtmcErr	92291.5 111.4 0.277 0.03 0_Ch0_DSI	_PulseIn_20191119_135243.txt _PulseIn_20191119_135331.txt
amp_mean amp_sigm RCtconst RCtmcErr G15_RC31_O120 amp_mean amp_sigm RCtconst RCtmcErr	92291.5 111.4 0.277 0.03 0_Ch0_DSI_ 113857 185.2 0.225 0.024	
amp_mean amp_sigm RCtconst RCtmcErr G15_RC31_O120 amp_mean amp_sigm RCtconst RCtmcErr G15_RC27_O120 amp_mean amp_sigm RCtconst RCtmcErr	92291.5 111.4 0.277 0.03 0_Ch0_DSI_ 113857 185.2 0.225 0.024 0_Ch0_DSI_ 106848 169.7 0.239 0.026	_PulseIn_20191119_135331.txt

		· - · - · ·
amp_sigm	168	
. — .		
RCtconst	0.239	
RCtmcErr	0.026	
G15 RC31	O120 Ch0 DSI	PulseIn_20191119_135330.txt
	113859	
amp_sigm		
RCtconst	0.225	
RCtmcErr	0.024	
G15 RC29	O120 Ch0 DSI	PulseIn_20191119_135320.txt
	110863	
amp_sigm		
RCtconst	0.231	
RCtmcErr	0.025	
G15 RC21	O120 Ch0 DSI	PulseIn_20191119_135244.txt
amp_mean	92303.2	
amp_sigm		
RCtconst	0.277	
RCtmcErr	0.03	
G15 RC27	O120 Ch0 DSI	PulseIn_20191119_135310.txt
amp_mean		
amp_sigm		
RCtconst	0.239	
RCtmcErr	0.026	
G15 RC21	O120 Ch0 DSI	PulseIn_20191119_135245.txt
	92295.3	
· —		
amp_sigm		
RCtconst	0.277	
RCtmcErr	0.03	
G15 RC31	O120 Ch0 DSI	PulseIn_20191119_135333.txt
amp_mean		
amp_sigm	193.5	
. — -		
RCtconst	0.225	
RCtmcErr	0.024	
G15_RC19_	_O120_Ch0_DSI_	_PulseIn_20191119_135229.txt
amp_mean	88218.8	
amp_sigm	107.9	
RCtconst	0.29	
RCtmcErr	0.031	
G15_RC29 __		_PulseIn_20191119_135321.txt
amp_mean	110857	
amp_sigm	186.6	
RCtconst	0.231	
RCtmcErr	0.025	
ROUIICEII	0.025	

G15_RC11_O120_Ch0_DSI_PulseIn_20191119_135115.txt

amp_mean	68797.7	
amp_sigm	62.95	
RCtconst	0.372	
RCtmcErr	0.04	
RCUIICEII	0.04	
G15 RC11 O120	ChO DSI	_PulseIn_20191119_135117.txt
amp_mean		_1 disem_20191119_155117:(xt
amp_sigm	63.28	
RCtconst	0.372	
RCtmcErr	0.04	
C1E DC2 O120 (260 DCL I	Dulcala 20101110 125042 by
		PulseIn_20191119_135042.txt
amp_mean		
1 _ 3	28.2	
RCtconst	0.534	
RCtmcErr	0.057	
		_PulseIn_20191119_135124.txt
amp_mean		
	74.38	
RCtconst	0.35	
RCtmcErr	0.037	
		_PulseIn_20191119_135125.txt
amp_mean	73167.3	
amp_sigm	76.38	
RCtconst	0.35	
RCtmcErr	0.037	
G15_RC5_O120_0	Ch0_DSI_I	PulseIn_20191119_135049.txt
amp_mean	52571.9	
amp_sigm	34.81	
RCtconst	0.487	
RCtmcErr	0.052	
G15_RC9_O120_0	Ch0_DSI_I	PulseIn_20191119_135107.txt
amp_mean	65487.1	
amp_sigm	54.64	
RCtconst	0.391	
RCtmcErr	0.042	
G15_RC13_O120_	Ch0_DSI	_PulseIn_20191119_135126.txt
amp_mean		
amp_sigm	74.67	
RCtconst	0.35	
RCtmcErr	0.037	
NOUNCEN	0.037	
G15 RC3 O120 O	ChO DSI	PulseIn_20191119_135040.txt
	47927.1	
amp_sigm	28.21	
RCtconst	0.534	
RCICONSI PCtmcErr	0.534	
₩. Imc⊢rr	11116/	

0.057

RCtmcErr

5	7	9	11	13	15	17	19	21	23	25
52576.1	56001.8	65484.8	68792.7	73175.8	76402.9	85114.1	88216.3	92293.8	95287.4	103796
52571.1	56001.9	65485.7	68797.7	73167.3	76410.1	85120.1	88225.3	92291.5	95292	103785
52571.9	55998.1	65487.1	68798.9	73171.3	76398.1	85108.6	88219.7	92303.2	95291.6	103786
							88218.8	92295.3	95299.8	
52573.0	56000.6	65485.9	68796.4	<i>7</i> 31 <i>7</i> 1.5	<i>76403.7</i>	85114.3	88220.0	92296.0	<i>95292.7</i>	103789.0
35.31	39.26	55.71	62.85	74.38	79.53	97.77	106.3	114.8	125.2	155.1
34.61	39.11	54.71	62.95	76.38	78.89	100.6	108.7	111.4	130	156.3
34.81	38.25	54.64	63.28	74.67	79.73	102.1	105.7	121.6	124.2	165.2
							107.9	121.1	122.2	
34.9	38.9	55.0	63.0	<i>7</i> 5.1	79.4	100.2	107.2	117.2	125.4	158.9
0.487	0.457	0.391	0.372	0.35	0.335	0.301	0.29	0.277	0.269	0.246
0.487	0.457	0.391	0.372	0.35	0.335	0.301	0.29	0.277	0.268	0.247
0.487	0.457	0.391	0.372	0.35	0.335	0.301	0.29	0.277	0.268	0.247
							0.29	0.277	0.268	
0.487	0.457	0.391	0.372	0.35	0.335	0.301	0.29	0.277	0.26825	0.247
0.052	0.049	0.042	0.04	0.037	0.036	0.032	0.031	0.03	0.029	0.026
0.052	0.049	0.042	0.04	0.037	0.036	0.032	0.031	0.03	0.029	0.026
0.052	0.049	0.042	0.04	0.037	0.036	0.032	0.031	0.03	0.029	0.026
							0.031	0.03	0.029	
0.052	0.049	0.042	0.04	0.037	0.036	0.032	0.031	0.03	0.029	0.026

		5.1
27	29	31
106845	110871	113849
106848	110863	113857
106842	110857	113859
106847		113856
106845.5	110863.7	113855.3
166.5	181.4	187.2
169.7	180.4	185.2
168	186.6	191.7
166.9		193.5
167.8	182.8	189.4
0.239	0.231	0.225
0.239	0.231	0.225
0.239	0.231	0.225
0.239		0.225
0.239	0.231	0.225
0.026	0.025	0.024
0.026	0.025	0.024
0.026	0.025	0.024
0.026		0.024
0.026	0.025	0.024

Gain = 15							
RC (6-bit)	out mean (ADU)	out sigma (ADU)	RC meas (us)				
1	44313.0	28.1	0.58				
3	47927.6	28.5	0.53				
5	52573.0	34.9	0.49				
7	56000.6	38.9	0.46				
9	65485.9	55.0	0.39				
11	68796.4	63.0	0.37				
13	73171.5	75.1	0.35				
15	76403.7	79.4	0.34				
17	85114.3	100.2	0.30				
19	88220.0	107.2	0.29				
21	92296.0	117.2	0.28				
23	95292.7	125.4	0.27				
25	103789.0	158.9	0.25				
27	106845.5	167.8	0.24				
29	110863.7	182.8	0.23				
31	113855.3	189.4	0.23				

	1ADU=21.4uV	
RC err (us)	out ampl (V)	out err (V)
0.06	0.948	0.001
0.06	1.026	0.001
0.05	1.125	0.001
0.05	1.198	0.001
0.04	1.401	0.001
0.04	1.472	0.001
0.04	1.566	0.002
0.04	1.635	0.002
0.03	1.821	0.002
0.03	1.888	0.002
0.03	1.975	0.003
0.03	2.039	0.003
0.03	2.221	0.003
0.03	2.286	0.004
0.03	2.372	0.004
0.02	2.437	0.004

DSI Ch0 Gain30

G30 RC5 O120 Ch0 DSI PulseIn 20191119 135431
--

 amp_mean
 61727.4

 amp_sigm
 46.07

 RCtconst
 0.727

 RCtmcErr
 0.078

G30_RC5_O120_Ch0_DSI_PulseIn_20191119_135430.txt

 amp_mean
 61733.1

 amp_sigm
 47.22

 RCtconst
 0.727

 RCtmcErr
 0.078

G30_RC5_O120_Ch0_DSI_PulseIn_20191119_135432.txt

 amp_mean
 61730.8

 amp_sigm
 47.37

 RCtconst
 0.727

 RCtmcErr
 0.078

G30_RC11_O120_Ch0_DSI_PulseIn_20191119_135458.txt

 amp_mean
 90971.1

 amp_sigm
 102.8

 RCtconst
 0.494

 RCtmcErr
 0.053

G30_RC7_O120_Ch0_DSI_PulseIn_20191119_135438.txt

 amp_mean
 67958.2

 amp_sigm
 58.02

 RCtconst
 0.661

 RCtmcErr
 0.071

G30_RC7_O120_Ch0_DSI_PulseIn_20191119_135439.txt

 amp_mean
 67968.8

 amp_sigm
 60.26

 RCtconst
 0.661

 RCtmcErr
 0.071

G30_RC15_O120_Ch0_DSI_PulseIn_20191119_135517.txt

 amp_mean
 104548

 amp_sigm
 134

 RCtconst
 0.429

 RCtmcErr
 0.046

G30_RC15_O120_Ch0_DSI_PulseIn_20191119_135516.txt

 amp_mean
 104548

 amp_sigm
 138.9

 RCtconst
 0.429

 RCtmcErr
 0.046

G30 RC13 O120 Ch0 DSI PulseIn 20191119 135508.txt

 amp_mean
 98621.5

 amp_sigm
 115

 RCtconst
 0.455

 RCtmcErr
 0.049

RC	1	3
amp mean	46583.4	53238.8
	46582	53235.2
	46582.2	53233
	46582.5	53235.7
amp sigma	28.39	32.84
	28.06	33.93
	28.71	33.21
	28.4	33.3
RC	0.964	0.843
	0.964	0.843
	0.964	0.843
	0.96	0.84
Rcerr	0.1	0.09
	0.1	0.09
	0.1	0.09
	0.10	0.09

G30_RC13_O amp_mean amp_sigm RCtconst RCtmcErr	120_Ch0_DSI_ 98618 119.2 0.455 0.049	_PulseIn_20191119_135509.txt
	20_Ch0_DSI_F 85062.6	PulseIn_20191119_135447.txt
amp_sigm	89.84	
RCtconst	0.528	
RCtmcErr	0.056	
		PulseIn_20191119_135449.txt
amp_mean		
amp_sigm		
RCtconst	0.528	
RCtmcErr	0.056	
		_PulseIn_20191119_135559.txt
amp_mean	120567	
amp_sigm RCtconst	170.7 0.372	
RCtmcErr		
KClincLii	0.04	
		PulseIn_20191119_135448.txt
amp_mean	85061.7	
amp_sigm		
RCtconst	0.528	
RCtmcErr	0.056	
		_PulseIn_20191119_135621.txt
amp_mean amp_sigm	125914	
amp_sigm	181.3	
RCtconst	0.357	
RCtmcErr	0.038	
G30_RC19_O	120_Ch0_DSI_	_PulseIn_20191119_135619.txt
' —	125931	
amp_sigm	178.1	
RCtconst	0.357	
RCtmcErr	0.038	
		_PulseIn_20191119_135601.txt
· -	120572	
amp_sigm	182.9	
RCtconst	0.372	
RCtmcErr	0.04	
		_PulseIn_20191119_135618.txt
amp_mean	125918	
amp_sigm	180.1	
RCtconst	0.357	

RCtmcErr 0.038

G30_RC17_O120_Ch0_DSI_PulseIn_20191119_135602.txt

 amp_mean
 120576

 amp_sigm
 174.1

 RCtconst
 0.372

 RCtmcErr
 0.04

G30_RC7_O120_Ch0_DSI_PulseIn_20191119_135440.txt

 amp_mean
 67962.6

 amp_sigm
 56.99

 RCtconst
 0.661

 RCtmcErr
 0.071

G30_RC1_O120_Ch0_DSI_PulseIn_20191119_135412.txt

 amp_mean
 46583.4

 amp_sigm
 28.39

 RCtconst
 0.964

 RCtmcErr
 0.1

G30_RC13_O120_Ch0_DSI_PulseIn_20191119_135510.txt

 amp_mean
 98614.6

 amp_sigm
 120.2

 RCtconst
 0.455

 RCtmcErr
 0.049

G30_RC3_O120_Ch0_DSI_PulseIn_20191119_135424.txt

 amp_mean
 53238.8

 amp_sigm
 32.84

 RCtconst
 0.843

 RCtmcErr
 0.09

G30 RC15 O120 Ch0 DSI PulseIn 20191119 135519.txt

 amp_mean
 104554

 amp_sigm
 135.6

 RCtconst
 0.429

 RCtmcErr
 0.046

G30_RC1_O120_Ch0_DSI_PulseIn_20191119_135413.txt

 amp_mean
 46582

 amp_sigm
 28.06

 RCtconst
 0.964

 RCtmcErr
 0.1

G30 RC3 O120 Ch0 DSI PulseIn 20191119 135423.txt

 amp_mean
 53235.2

 amp_sigm
 33.93

 RCtconst
 0.843

 RCtmcErr
 0.09

G30 RC1 O120 Ch0 DSI PulseIn 20191119 135415.txt

amp_mean 46582.2 amp_sigm 28.71

RCtconst	0.964	
RCtmcErr	0.1	
G30_RC11_O12	20_Ch0_DSI_F	PulseIn_20191119_135457.txt
amp_mean	90955	
amp_sigm	105.5	
RCtconst	0.494	
RCtmcErr	0.053	
G30_RC3_O120)_Ch0_DSI_Pເ	ılseIn_20191119_135421.txt
amn maan	23333	

 amp_mean
 53233

 amp_sigm
 33.21

 RCtconst
 0.843

 RCtmcErr
 0.09

G30_RC11_O120_Ch0_DSI_PulseIn_20191119_135456.txt

 amp_mean
 90953.8

 amp_sigm
 100.2

 RCtconst
 0.494

 RCtmcErr
 0.053

G30_RC15_O120_Ch0_DSI_PulseIn_20191119_135520.txt

 amp_mean
 104548

 amp_sigm
 135.8

 RCtconst
 0.429

 RCtmcErr
 0.046

5	7	9	11	13	15	17	19
61727.4	67958.2	85062.6	90971.1	98621.5	104548	120567	125914
61733.1	67968.8	85065.7	90955	98618	104548	120572	125931
61730.8	67962.6	85061.7	90953.8	98614.6	104554	120576	125918
					104548		
61730.4	67963.2	85063.3	90960.0	98618.0	104549.5	120571.7	125921.0
46.07	58.02	89.84	102.8	115	134	170.7	181.3
47.22	60.26	92.62	105.5	119.2	138.9	182.9	178.1
47.37	56.99	87.86	100.2	120.2	135.6	174.1	180.1
					135.8		
46.9	58.4	90.1	102.8	118.1	136.1	175.9	179.8
0.727	0.661	0.528	0.494	0.455	0.429	0.372	0.357
0.727	0.661	0.528	0.494	0.455	0.429	0.372	0.357
0.727	0.661	0.528	0.494	0.455	0.429	0.372	0.357
					0.429		
0.73	0.66	0.53	0.49	0.46	0.43	0.37	0.36
0.078	0.071	0.056	0.053	0.049	0.046	0.04	0.038
0.078	0.071	0.056	0.053	0.049	0.046	0.04	0.038
0.078	0.071	0.056	0.053	0.049	0.046	0.04	0.038
					0.046		
0.08	0.07	0.06	0.05	0.05	0.05	0.04	0.04

	_
RC (6-bit)	
-	1
,	3
į	5
	7
Ç	9
13	1
13	3
15	5
17	7
19	9
	_

Gain = 30									
				1ADU=21.4uV					
out mean (ADU)	out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)				
46582.5	28.4	0.96	0.10	0.997	0.001				
53235.7	33.3	0.84	0.09	1.139	0.001				
61730.4	46.9	0.73	0.08	1.321	0.001				
67963.2	58.4	0.66	0.07	1.454	0.001				
85063.3	90.1	0.53	0.06	1.820	0.002				
90960.0	102.8	0.49	0.05	1.947	0.002				
98618.0	118.1	0.46	0.05	2.110	0.003				
104549.5	136.1	0.43	0.05	2.237	0.003				
120571.7	175.9	0.37	0.04	2.580	0.004				
125921.0	179.8	0.36	0.04	2.695	0.004				

G45_RC7_O12 amp_mean amp_sigm RCtconst RCtmcErr	0_Ch0_DSI_PulseIn_20191119_135740.t 79803.2 80.17 0.773 0.083	ext
G45_RC7_O12 amp_mean amp_sigm	0_Ch0_DSI_PulseIn_20191119_135741.t 79802.7 80.21	xt
RCtconst RCtmcErr	0.773 0.083	
G45_RC7_O12 amp_mean	D_Ch0_DSI_PulseIn_20191119_135742.t 79803.5	xt
amp_sigm	79.1	
RCtconst	0.773	
RCtmcErr	0.083	
	20_Ch0_DSI_PulseIn_20191119_135805	.txt
amp_mean	113101 152.3	
amp_sigm RCtconst	0.546	
RCtmcErr	0.058	
Retifical	0.038	
	20_Ch0_DSI_PulseIn_20191119_135804	.txt
amp_mean	113111	
amp_sigm	155.4	
RCtconst	0.546	
RCtmcErr	0.058	
	20_Ch0_DSI_PulseIn_20191119_135806	.txt
amp_mean amp_sigm	113102	
amp_sigm	154.3	
RCtconst	0.546	
RCtmcErr	0.058	
	0_Ch0_DSI_PulseIn_20191119_135721.t	xt
'-	58517.8	
amp_sigm	42.02	
RCtconst	1.05	
RCtmcErr	0.11	
	0_Ch0_DSI_PulseIn_20191119_135648.t	xt
amp_mean		
amp_sigm	29.24	
RCtconst	1.26	
RCtmcErr	0.14	
	0_Ch0_DSI_PulseIn_20191119_135722.t	xt
amp_mean	58518.8	
amp_sigm	41.01	
RCtconst	1.05	
RCtmcErr	0.11	

RC	1	3
amp mean	48852.7	58517.8
	48855.1	58518.8
	48850.2	58520.9
	48852.7	58519.2
amp sigma	29.24	42.02
	29.65	41.01
	29.35	40.55
	29.4	41.2
RC	1.26	1.05
	1.26	1.05
	1.26	1.05
	1.26	1.05
Rcerr	0.14	0.11
	0.14	0.11
	0.14	0.11
	0.14	0.11

G45_RC3_O120 amp_mean amp_sigm RCtconst RCtmcErr	_Ch0_DSI_PulseIn_20191119_135723.tx 58520.9 40.55 1.05 0.11	(t
G45_RC5_O120	Ch0 DSI_PulseIn_20191119_135732.tx	ĸt
amp_mean	70821.6	
amp_sigm	60.97	
RCtconst	0.871	
RCtmcErr	0.093	
G45_RC13_O12	D_Ch0_DSI_PulseIn_20191119_135813.	txt
amp_mean	124391	
amp_sigm	165.3	
RCtconst	0.496	
RCtmcErr	0.053	
G45_RC1_O120	_Ch0_DSI_PulseIn_20191119_135645.tx	κt
amp_mean	48855.1	
amp_sigm	29.65	
RCtconst	1.26	
RCtmcErr	0.14	
G45_RC5_O120	_Ch0_DSI_PulseIn_20191119_135731.tx	κt
amp_mean	70818.4	
amp_sigm	60.14	
RCtconst	0.871	
RCtmcErr	0.093	
G45_RC1_O120	_Ch0_DSI_PulseIn_20191119_135646.tx	κt
amp_mean	48850.2	
amp_sigm	29.35	
RCtconst	1.26	
RCtmcErr	0.14	
G45_RC5_O120	_Ch0_DSI_PulseIn_20191119_135734.tx	κt
amp_mean	70822.7	
amp_sigm	63.12	
RCtconst	0.871	
RCtmcErr	0.093	
G45_RC13_O12	D_Ch0_DSI_PulseIn_20191119_135814.	txt
amp_mean	124382	
amp_sigm	171.5	
RCtconst	0.496	
RCtmcErr	0.053	
G45_RC13_O12	D_Ch0_DSI_PulseIn_20191119_135815.	txt
amp_mean	124375	
amp_sigm	164.5	
RCtconst	0.496	

RCtmcErr 0.053

G45_RC9_O120_Ch0_DSI_PulseIn_20191119_135754.txt

 amp_mean
 104305

 amp_sigm
 134.6

 RCtconst
 0.592

 RCtmcErr
 0.063

G45_RC9_O120_Ch0_DSI_PulseIn_20191119_135752.txt

 amp_mean
 104306

 amp_sigm
 134.5

 RCtconst
 0.592

 RCtmcErr
 0.063

G45_RC9_O120_Ch0_DSI_PulseIn_20191119_135753.txt

 amp_mean
 104310

 amp_sigm
 132.9

 RCtconst
 0.592

 RCtmcErr
 0.063

5	7	9	11	13
70821.6	79803.2	104305	113101	124391
70818.4	79802.7	104306	113111	124382
70822.7	79803.5	104310	113102	124375
70820.9	79803.1	104307.0	113104.7	124382.7
60.97	80.17	134.6	152.3	165.3
60.14	80.21	134.5	155.4	171.5
63.12	79.1	132.9	154.3	164.5
61.4	79.8	134.0	154.0	167.1
0.871	0.773	0.592	0.546	0.496
0.871	0.773	0.592	0.546	0.496
0.871	0.773	0.592	0.546	0.496
0.87	0.77	0.59	0.55	0.50
0.093	0.083	0.063	0.058	0.053
0.093	0.083	0.063	0.058	0.053
0.093	0.083	0.063	0.058	0.053
0.09	0.08	0.06	0.06	0.05

RC (6-bit)	out mean (ADU)
1	48852.7
3	58519.2
5	70820.9
7	79803.1
9	104307.0
11	113104.7
13	124382.7

	Gain = 45			
			1ADU=21.4uV	
out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)
29.4	1.26	0.14	1.045	0.001
41.2	1.05	0.11	1.252	0.001
61.4	0.87	0.09	1.516	0.001
79.8	0.77	0.08	1.708	0.002
134.0	0.59	0.06	2.232	0.003
154.0	0.55	0.06	2.420	0.003
167.1	0.50	0.05	2.662	0.004

in63

	DSI_Ch0_Gain63
G63_RC1_O12	0_Ch0_DSI_PulseIn_20191119_135839.txt
amp_mean	51597.9
amp_sigm	31.89
RCtconst	1.52
RCtmcErr	0.16
G63_RC7_O12	0_Ch0_DSI_PulseIn_20191119_135944.txt
amp_mean	93754.3
amp_sigm	104.1
RCtconst	0.838
RCtmcErr	0.09
G63_RC7_O12	0_Ch0_DSI_PulseIn_20191119_135943.txt
amp_mean	93754.9
amp_sigm	103.7
RCtconst	0.838
RCtmcErr	0.09
G63_RC7_O12	0_Ch0_DSI_PulseIn_20191119_135942.txt
amp_mean	93755
amp_sigm	103.6
RCtconst	0.838
RCtmcErr	0.09
G63_RC3_O12	0_Ch0_DSI_PulseIn_20191119_135919.txt
amp_mean	64857.9
amp_sigm	51.56
RCtconst	1.21
RCtmcErr	0.13
	0_Ch0_DSI_PulseIn_20191119_135921.txt 64858.8 52.29 1.21 0.13
G63_RC3_O12	0_Ch0_DSI_PulseIn_20191119_135922.txt
amp_mean	64861.9
amp_sigm	52.16
RCtconst	1.21
RCtmcErr	0.13
G63_RC3_O12	0_Ch0_DSI_PulseIn_20191119_135923.txt
amp_mean	64863.6
amp_sigm	51.1
RCtconst	1.21
RCtmcErr	0.13
G63_RC5_O12	0_Ch0_DSI_PulseIn_20191119_135932.txt
amp_mean	81630.9
amp_sigm	81.19
RCtconst	0.963
RCtmcFrr	0.1

0.1

RCtmcErr

RC	1
amp mean	51597.9
	51593.1
	51594.3
	51595.1
amp sigma	31.89
	32.68
	31.22
	31.93
RC	1.52
	1.52
	1.52

G63_RC1_O120_Ch0 amp_mean 5 amp_sigm RCtconst RCtmcErr	D_DSI_PulseIn_20191119_135842.txt 1593.1 32.68 1.52 0.16
amp_mean 8 amp_sigm	D_DSI_PulseIn_20191119_135934.txt 1635.4 79.28 0.962 0.1
amp_mean 8 amp_sigm	D_DSI_PulseIn_20191119_135935.txt 1637.8 81.89 0.962 0.1
amp_mean amp_sigm	D_DSI_PulseIn_20191119_135936.txt 81631 80.51 0.963 0.1
amp_mean 5	D_DSI_PulseIn_20191119_135840.txt 1594.3 31.22 1.52 0.16
amp_mean 1 amp_sigm	0.616
G63_RC9_O120_Ch0 amp_mean 1 amp_sigm RCtconst RCtmcErr	D_DSI_PulseIn_20191119_135951.txt 127468 185 0.616 0.066
	D_DSI_PulseIn_20191119_135950.txt 127474 177.6 0.616 0.066
	D_DSI_PulseIn_20191119_135952.txt 127460 178.7 0.616

	1.52
Rcerr	0.16
	0.16
	0.16
	0.16

RCtmcErr 0.066

3	5	7	9
64857.9	81630.9	93754.3	127465
64858.8	81635.4	93754.9	127468
64861.9	81637.8	93755	127474
64863.6	81631		127460
64860.55	81633.775	93754.733333	127466.75
51.56	81.19	104.1	176.1
52.29	79.28	103.7	185
52.16	81.89	103.6	177.6
51.1	80.51		178.7
51.7775	80.7175	103.8	179.35
1.21	0.963	0.838	0.616
1.21	0.962	0.838	0.616
1.21	0.962	0.838	0.616
	0.963		0.616

out mean (ADU)
51595.1
64860.6
81633.8
93754.7
127466.8

DSI_Ch0_Gain63

1.21	0.96	0.84	0.62
0.13	0.1	0.09	0.066
0.13	0.1	0.09	0.066
0.13	0.1	0.09	0.066
0.13	0.1		0.066
0.13	0.1	0.09	0.066

Gain = 63						
		1ADU=21.4uV				
out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)		
31.9	1.52	0.16	1.104	0.001		
51.8	1.21	0.13	1.388	0.001		
80.7	0.96	0.10	1.747	0.002		
103.8	0.84	0.09	2.006	0.002		
179.4	0.62	0.07	2.728	0.004		

CF1_RC9_O120_Ch0_DSI_ Pulseln_20191119_140108.txt amp_mean 81543.5 amp_sigm 132.6 RCtconst 0.518 RCtmcErr 0.055 CF1_RC21_O120_Ch0_DSI_ Pulseln_20191119_140325.txt amp_mean 126253 amp_sigm 311.2 RCtconst 0.334 RCtmcErr 0.036 CF1_RC21_O120_Ch0_DSI_ Pulseln_20191119_140324.txt amp_sigm 303.7 RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI_ Pulseln_20191119_140040.txt amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI_ Pulseln_20191119_140042.txt amp_mean 59931 amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI_ Pulseln_20191119_140048.txt amp_mean 65700.1 amp_sigm 33.07 RCtconst 0.642 RCtmcErr 0.069 CF1_			
amp_sigm 132.6 RCtconst 0.518 RCtmcErr 0.055 CF1_RC21_Ol20_Ch0_DSI PulseIn_20191119_140325.txt amp_mean 126253 amp_sigm 311.2 RCtconst 0.036 CF1_RC21_Ol20_Ch0_DSI PulseIn_20191119_140324.txt amp_mean 126259 amp_sigm 303.7 RCtconst 0.036 CF1_RC5_Ol20_Ch0_DSI PulseIn_20191119_140040.txt amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_Ol20_Ch0_DSI PulseIn_20191119_140042.txt amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_Ol20_Ch0_DSI PulseIn_20191119_140048.txt amp_mean 65700.1 amp_sigm 83.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_Ol20_Ch0_DSI PulseIn_20191119_140049.txt amp_mean 65701.5			PulseIn_20191119_140108.txt
RCtconst	· -		
RCtmcErr			
CF1_RC21_O120_Ch0_DSI	RCtconst	0.518	
amp_mean 126253 amp_sigm 311.2 RCtconst 0.334 RCtmcErr 0.036 CF1_RC21_O120_Ch0_DSI Pulseln_20191119_140324.txt amp_mean 126259 amp_sigm 303.7 RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI Pulseln_20191119_140040.txt amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI Pulseln_20191119_140042.txt amp_mean 59931 amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI Pulseln_20191119_140048.txt amp_mean 65700.1 amp_sigm 33.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_O120_Ch0_DSI Pulseln_20191119_140049.txt amp_mean 65701.5 amp_sigm 79.86 RCtcons	RCtmcErr	0.055	
amp_mean 126253 amp_sigm 311.2 RCtconst 0.334 RCtmcErr 0.036 CF1_RC21_O120_Ch0_DSI Pulseln_20191119_140324.txt amp_mean 126259 amp_sigm 303.7 RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI Pulseln_20191119_140040.txt amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI Pulseln_20191119_140042.txt amp_mean 59931 amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI Pulseln_20191119_140048.txt amp_mean 65700.1 amp_sigm 33.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_O120_Ch0_DSI Pulseln_20191119_140049.txt amp_mean 65701.5 amp_sigm 79.86 RCtcons			
amp_sigm 311.2 RCtconst 0.334 RCtmcErr 0.036 CF1_RC21_O120_Ch0_DSI PulseIn_20191119_140324.txt amp_mean 126259 amp_sigm 303.7 RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI PulseIn_20191119_140040.txt amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI PulseIn_20191119_140042.txt amp_mean 59931 amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI PulseIn_20191119_140048.txt amp_mean 65700.1 amp_mean 126240 amp_sigm 320.9 RCtconst 0.334 RCtmcErr 0.036 CF1_RC7_O120_Ch0_DSI PulseIn_20191119_140049.txt amp_mean 65701.5 amp_sigm 79.86 RCtconst	CF1 RC21 O	120 Ch0 DSI	PulseIn_20191119_140325.txt
RCtconst	amp mean	126253	
RCtconst	amp sigm	311.2	
RCtmcErr 0.036 CF1_RC21_O120_Ch0_DSI amp_mean 126259 amp_sigm 303.7 RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI amp_sigm PulseIn_20191119_140048.txt amp_mean 65700.1 amp_sigm 83.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_O120_Ch0_DSI amp_sigm PulseIn_20191119_140049.txt amp_mean 65701.5 amp_sigm 79.86 RCtconst 0.642 RCtmcErr 0.069 CF1_RC7_O120_Ch0_DSI amp_sigm PulseIn_20191119_140049.txt amp_sigm 79.86 RCtconst 0.642 <td></td> <td></td> <td></td>			
CF1_RC21_O120_Ch0_DSI			
amp_mean 126259 amp_sigm 303.7 RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI PulseIn_20191119_140040.txt amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI PulseIn_20191119_140042.txt amp_mean 59931 amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI PulseIn_20191119_140048.txt amp_mean 65700.1 amp_sigm 83.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_O120_Ch0_DSI PulseIn_20191119_140326.txt amp_sigm 320.9 RCtconst 0.334 RCtmcErr 0.036 CF1_RC7_O120_Ch0_DSI PulseIn_20191119_140049.txt amp_sigm 79.86 RCtconst 0.642 RCtmcErr 0.069 CF1_RC13_O1		3.333	
amp_mean 126259 amp_sigm 303.7 RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI PulseIn_20191119_140040.txt amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI PulseIn_20191119_140042.txt amp_mean 59931 amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI PulseIn_20191119_140048.txt amp_mean 65700.1 amp_sigm 83.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_O120_Ch0_DSI PulseIn_20191119_140326.txt amp_sigm 320.9 RCtconst 0.334 RCtmcErr 0.036 CF1_RC7_O120_Ch0_DSI PulseIn_20191119_140049.txt amp_sigm 79.86 RCtconst 0.642 RCtmcErr 0.069 CF1_RC13_O1	CF1 RC21 O	120 Ch0 DSI	PulseIn 20191119 140324.txt
amp_sigm 303.7 RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI amp_sigm 83.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_O120_Ch0_DSI amp_sigm 9.069 CF1_RC21_O120_Ch0_DSI amp_sigm 320.9 RCtconst 0.334 RCtmcErr 0.036 CF1_RC7_O120_Ch0_DSI amp_sigm 79.86 CF1_RC7_O120_Ch0_DSI amp_sigm 79.86 RCtconst 0.642 RCtmcErr 0.069 CF1_RC7_O120_Ch0_DSI amp_sigm 79.86 RCtconst 0.642 RCtmcErr 0.069 CF1_RC13_O120_Ch0_DSI amp_sigm PulseIn_20191119_140049.txt Amp_mean 65701.5 Amp_mean 65701.5 <td></td> <td></td> <td></td>			
RCtconst 0.334 RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI_ amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI_ amp_mean 59931 amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI_ amp_sigm 83.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_O120_Ch0_DSI_ amp_mean 126240 amp_sigm 320.9 RCtconst 0.334 RCtmcErr 0.036 CF1_RC7_O120_Ch0_DSI_ amp_mean 126240 amp_sigm 320.9 RCtconst 0.334 RCtmcErr 0.036 CF1_RC7_O120_Ch0_DSI_ amp_mean 126240 amp_sigm 320.9 RCtconst 0.334 RCtmcErr 0.036 CF1_RC7_O120_Ch0_DSI_ amp_mean 65701.5 amp_sigm 79.86 RCtconst 0.642 RCtmcErr 0.069 CF1_RC13_O120_Ch0_DSI_ RCtmcErr 0.069 CF1_RC13_O120_Ch0_DSI_ RCtmcErr 0.069	· -		
RCtmcErr 0.036 CF1_RC5_O120_Ch0_DSI_amp_mean 59922.8 amp_sigm 64.64 RCtconst 0.704 RCtmcErr 0.075 CF1_RC5_O120_Ch0_DSI_amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI_amp_sigm 63.82 RCtconst 0.704 RCtmcErr 0.075 CF1_RC7_O120_Ch0_DSI_amp_sigm 83.07 RCtconst 0.642 RCtmcErr 0.069 CF1_RC21_O120_Ch0_DSI_amp_sigm PulseIn_20191119_140326.txt amp_mean 126240 amp_sigm 320.9 RCtconst 0.334 RCtmcErr 0.036 CF1_RC7_O120_Ch0_DSI_amp_sigm PulseIn_20191119_140049.txt amp_sigm 79.86 RCtconst 0.642 RCtmcErr 0.069 CF1_RC13_O120_Ch0_DSI_amp_sigm PulseIn_20191119_140243.txt amp_mean 94198.7 amp_sigm 178.4			
CF1_RC5_O120_Ch0_DSI_ amp_mean			
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RCtconst 0.642 RCtmcErr 0.069 CF1_RC13_O120_Ch0_DSI_PulseIn_20191119_140243.txt amp_mean 94198.7 amp_sigm 178.4			
RCtmcErr 0.069 CF1_RC13_O120_Ch0_DSI_PulseIn_20191119_140243.txt amp_mean 94198.7 amp_sigm 178.4			
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amp_mean 94198.7 amp_sigm 178.4	CE1 DC12 O	120 Cho DCI	Pulcoln 20101110 140242 h#
amp_sigm 178.4			_rui5eiii_z0191119_140243.lXl
DCtconct 0.440			
RCtconst 0.448			
RCtmcErr 0.048	RCtmcErr	0.048	

RC	1	3
amp mean	45972.6	52063.4
	45972.6	52063.4
amp sigma	29.33	41.99
	29.3	42.0
RC	0.918	0.811
	0.918	0.811
Rcerr	0.098	0.087
	0.098	0.087

CE1 DC1 O1	20 Ch0 DSI	PulseIn_20191119_140019.txt
amp mean	45972.6	Puiseiii_20191119_140019.txt
	29.33	
amp_sigm		
RCtconst	0.918	
RCtmcErr	0.098	
CF1_RC19_0	120_Ch0_DSI	_PulseIn_20191119_140313.txt
amp_mean	119618	
amp_sigm	292.9	
RCtconst	0.353	
RCtmcErr	0.038	
CE1 DC1 O1	20 Ch0 DSI	Dulcoln 20101110 140020 tvt
		PulseIn_20191119_140020.txt
amp_mean	45968.8	
amp_sigm	29.98	
RCtconst	0.918	
RCtmcErr	0.098	
CF1_RC13_O	120_Ch0_DSI	PulseIn_20191119_140244.txt
amp_mean	94194.1	
amp sigm	190.7	
RCtconst	0.448	
RCtmcErr	0.048	
TOUTIOETT	0.010	
		_PulseIn_20191119_140316.txt
amp_mean	119637	
amp_sigm	299.6	
RCtconst	0.353	
RCtmcErr	0.038	
CF1 RC19 O	120 ChO DSI	PulseIn_20191119_140317.txt
amp_mean	119629	
amp_sigm	286.8	
RCtconst	0.353	
RCtmcErr	0.038	
RCUIICEII	0.038	
CF1_RC1_01	20_Ch0_DSI_	PulseIn_20191119_140021.txt
amp_mean	45961.9	
amp_sigm	29.44	
RCtconst	0.918	
RCtmcErr	0.098	
CE1 DC1 O1	20 Ch0 DSI	PulseIn_20191119_140023.txt
amp mean	45960.3	. 4.3611_20131113_140023.[X[
- · -	30.67	
amp_sigm		
RCtconst RCtmcErr	0.918 0.098	
RCUIICEII	0.098	
CF1_RC13_0	120_Ch0_DSI	_PulseIn_20191119_140247.txt
amp_mean	94175.4	_
amp_sigm	176.8	
RCtconst	0.448	

RCtmcErr	0.048	
CF1 RC3 O1	20 ChO DSI	PulseIn 20191119 140029.txt
amp mean	52067.8	
amp_sigm	41.34	
RCtconst	0.811	4
RCtmcErr	0.011	
KCuncen	0.007	
CF1 RC3 O1	20 Ch0 DSI	PulseIn_20191119_140028.txt
amp mean	52063.4	
amp_sigm	41.99	
RCtconst	0.811	
RCtmcErr	0.087	
ROUNCEN	0.007	
CE1 RC19 O	120 Ch0 DSI	PulseIn_20191119_140314.txt
amp mean	119627	
amp_sigm	289.2	
RCtconst	0.353	
RCtmcErr	0.038	4
RCUIICEII	0.038	
CE1_RC13_O	120 ChO DSI	PulseIn 20191119 140246.txt
amp mean	94184.2	
amp_sigm	175.7	
RCtconst	0.448	4
RCtmcErr	0.048	
RCUIICLII	0.048	
CF1 RC5 O1	20 Ch0 DSI	PulseIn_20191119_140039.txt
amp_mean	59931.6	
amp_sigm	62.52	
RCtconst	0.704	
RCtmcErr	0.075	
CF1_RC3_01	20_Ch0_DSI_	PulseIn_20191119_140030.txt
amp_mean	52060.9	
amp_sigm	40.51	
RCtconst	0.811	
RCtmcErr	0.087	
CF1_RC15_O		_PulseIn_20191119_140256.txt
amp_mean	99420.1	
amp_sigm	210.9	
RCtconst	0.425	
RCtmcErr	0.045	
CF1_RC15_O		_PulseIn_20191119_140254.txt
amp_mean	99409.2	
amp_sigm	211.2	
RCtconst	0.425	
RCtmcErr	0.045	
CF1_RC3_01	20_Ch0_DSI_	PulseIn_20191119_140032.txt
amp_mean	52058.4	
amp_sigm	39.99	
-	-	

RCtmcErr	RCtconst	0.811	
CF1_RC3_0120_Ch0_DSI		0.087	
amp_mean 52061.7 amp_sigm 40.05 RCtconst 0.811 RCtmcErr 0.087 CF1_RC15_O120_Ch0_DSI PulseIn_20191119_140255.txt amp_mean 99422.2 amp_sigm 213.4 RCtconst 0.424 RCtmcErr 0.045 CF1_RC17_O120_Ch0_DSI PulseIn_20191119_140307.txt amp_mean 114332 amp_sigm 276.9 RCtconst 0.369 RCtmcErr 0.04 CF1_RC15_O120_Ch0_DSI PulseIn_20191119_140251.txt amp_sigm 211.7 RCtconst 0.424 RCtmcErr 0.045 CF1_RC17_O120_Ch0_DSI PulseIn_20191119_140304.txt amp_sigm 278.4 RCtconst 0.369 RCtmcErr 0.04 CF1_RC17_O120_Ch0_DSI PulseIn_20191119_140305.txt amp_mean 114330 amp_sigm 276.3 RCtconst 0.369 RCtmcErr 0.04 CF1_RC7_O		0.000	
amp_mean 52061.7 amp_sigm 40.05 RCtconst 0.811 RCtmcErr 0.087 CF1_RC15_O120_Ch0_DSI PulseIn_20191119_140255.txt amp_mean 99422.2 amp_sigm 213.4 RCtconst 0.424 RCtmcErr 0.045 CF1_RC17_O120_Ch0_DSI PulseIn_20191119_140307.txt amp_mean 114332 amp_sigm 276.9 RCtconst 0.369 RCtmcErr 0.04 CF1_RC15_O120_Ch0_DSI PulseIn_20191119_140251.txt amp_sigm 211.7 RCtconst 0.424 RCtmcErr 0.045 CF1_RC17_O120_Ch0_DSI PulseIn_20191119_140304.txt amp_sigm 278.4 RCtconst 0.369 RCtmcErr 0.04 CF1_RC17_O120_Ch0_DSI PulseIn_20191119_140305.txt amp_mean 114330 amp_sigm 276.3 RCtconst 0.369 RCtmcErr 0.04 CF1_RC7_O	CF1 RC3 O1	20 Ch0 DSI	PulseIn 20191119 140033.txt
amp_sigm 40.05 RCtconst 0.811 RCtmcErr 0.087 CF1_RC15_C120_Ch0_DSI Pulseln_20191119_140255.txt amp_mean 99422.2 amp_sigm 213.4 RCtconst 0.424 RCtmcErr 0.045 CF1_RC17_C120_Ch0_DSI Pulseln_20191119_140307.txt amp_mean 114332 amp_sigm 276.9 RCtconst 0.369 RCtmcErr 0.04 CF1_RC15_C120_Ch0_DSI Pulseln_20191119_140251.txt amp_mean 99429.5 amp_sigm 211.7 RCtconst 0.424 RCtmcErr 0.045 CF1_RC17_C120_Ch0_DSI Pulseln_20191119_140304.txt amp_sigm 278.4 RCtconst 0.369 RCtmcErr 0.04 CF1_RC17_O120_Ch0_DSI Pulseln_20191119_140305.txt amp_mean 114330 amp_sigm 276.3 RCtconst 0.369 RCtmcErr 0.04 CF1_RC7_O			
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CF1_RC7_O120_Ch0_DSI_PulseIn_20191119_140052.txt			
	RCtmcErr	0.036	
amp_mean 65697.6	CF1_RC7_01		PulseIn_20191119_140052.txt
	amp_mean	65697.6	

amp_sigm	85.09	
RCtconst	0.642	
RCtmcErr	0.069	
CF1_RC11_C	120_Ch0_DSI	_PulseIn_20191119_140152.txt
amp_mean	87019.2	
amp_sigm	152.9	
RCtconst	0.485	
RCtmcErr	0.052	
CF1_RC9_01	20_Ch0_DSI_	PulseIn_20191119_140107.txt
amp_mean	81535.6	
amp_sigm	135.5	
RCtconst	0.518	
RCtmcErr	0.055	
CF1_RC11_C	120 Ch0 DSI	PulseIn_20191119_140151.txt
amp_mean	87013.4	
amp_sigm	152.7	
RCtconst	0.485	
RCtmcErr	0.052	
CF1_RC11_C	120_Ch0_DSI	PulseIn_20191119_140150.txt
amp_mean	87020.6	
amp_sigm	152	
RCtconst	0.485	
RCtmcErr	0.052	
CF1_RC9_01	20_Ch0_DSI_	PulseIn_20191119_140110.txt
amp_mean	81528.6	_ _
amp_sigm	132.7	
RCtconst	0.518	
RCtmcErr	0.055	

DSI_Ch0_CF1

5	7	9	11	13	15	17	19	21
59922.8	65700.1	81543.5	87019.2	94198.7	99420.1	114332	119618	126253
59931								126259
59926.9	65700.1	81543.5	87019.2	94198.7	99420.1	114332.0	119618.0	126256.0
64.64	83.07	132.6	152.9	178.4	210.9	276.9	292.9	311.2
63.82								303.7
64.2	83.1	132.6	152.9	178.4	210.9	276.9	292.9	307.5
0.704	0.642	0.518	0.485	0.448	0.425	0.369	0.353	0.334
0.704								0.334
0.704	0.642	0.518	0.485	0.448	0.425	0.369	0.353	0.334
0.075	0.069	0.055	0.052	0.048	0.045	0.04	0.038	0.036
0.075								0.036
0.075	0.069	0.055	0.052	0.048	0.045	0.04	0.038	0.036

RC (6-bit) 1 3
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21

DSI_Ch0_CF1

	CF1							
				1ADU=21.4uV				
out mean (ADU)	out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)			
45972.6	29.3	0.92	0.10	0.984	0.001			
52063.4	42.0	0.81	0.09	1.114	0.001			
59926.9	64.2	0.70	0.08	1.282	0.001			
65700.1	83.1	0.64	0.07	1.406	0.002			
81543.5	132.6	0.52	0.06	1.745	0.003			
87019.2	152.9	0.49	0.05	1.862	0.003			
94198.7	178.4	0.45	0.05	2.016	0.004			
99420.1	210.9	0.43	0.05	2.128	0.005			
114332.0	276.9	0.37	0.04	2.447	0.006			
119618.0	292.9	0.35	0.04	2.560	0.006			
126256.0	307.5	0.33	0.04	2.702	0.007			

DSI_Ch0_results

	Gain = 63								
					1ADU=21.4uV				
RC (6-bit)	out mean (ADU)	out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)			
1	51595.1	31.9	1.52	0.16	1.104	0.001			
3	64860.6	51.8	1.21	0.13	1.388	0.001			
5	81633.8	80.7	0.96	0.10	1.747	0.002			
7	93754.7	103.8	0.84	0.09	2.006	0.002			
9	127466.8	179.4	0.62	0.07	2.728	0.004			

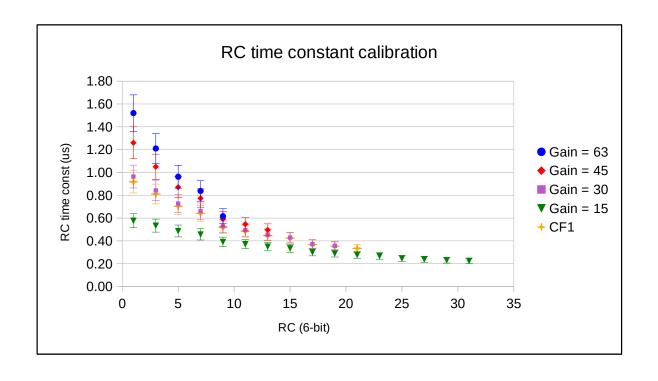
	Gain = 45							
					1ADU=21.4uV			
RC (6-bit)	out mean (ADU)	out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)		
1	48852.7	29.4	1.26	0.14	1.045	0.001		
3	58519.2	41.2	1.05	0.11	1.252	0.001		
5	70820.9	61.4	0.87	0.09	1.516	0.001		
7	79803.1	79.8	0.77	0.08	1.708	0.002		
9	104307.0	134.0	0.59	0.06	2.232	0.003		
11	113104.7	154.0	0.55	0.06	2.420	0.003		
13	124382.7	167.1	0.50	0.05	2.662	0.004		

	Gain = 30							
					1ADU=21.4uV			
RC (6-bit)	out mean (ADU)	out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)		
1	46582.5	28.4	0.96	0.10	0.997	0.001		
3	53235.7	33.3	0.84	0.09	1.139	0.001		
5	61730.4	46.9	0.73	0.08	1.321	0.001		
7	67963.2	58.4	0.66	0.07	1.454	0.001		
9	85063.3	90.1	0.53	0.06	1.820	0.002		
11	90960.0	102.8	0.49	0.05	1.947	0.002		
13	98618.0	118.1	0.46	0.05	2.110	0.003		
15	104549.5	136.1	0.43	0.05	2.237	0.003		
17	120571.7	175.9	0.37	0.04	2.580	0.004		
19	125921.0	179.8	0.36	0.04	2.695	0.004		

	Gain = 15								
	1ADU=21.4uV								
RC	(6-bit)	out mean (ADU)	out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)		
	1	44313.0	28.1	0.58	0.06	0.948	0.001		
	3	47927.6	28.5	0.53	0.06	1.026	0.001		
	5	52573.0	34.9	0.49	0.05	1.125	0.001		
	7	56000.6	38.9	0.46	0.05	1.198	0.001		
	9	65485.9	55.0	0.39	0.04	1.401	0.001		
	11	68796.4	63.0	0.37	0.04	1.472	0.001		
	13	73171.5	75.1	0.35	0.04	1.566	0.002		
	15	76403.7	79.4	0.34	0.04	1.635	0.002		
	17	85114.3	100.2	0.30	0.03	1.821	0.002		
	19	88220.0	107.2	0.29	0.03	1.888	0.002		
	21	92296.0	117.2	0.28	0.03	1.975	0.003		
	23	95292.7	125.4	0.27	0.03	2.039	0.003		
	25	103789.0	158.9	0.25	0.03	2.221	0.003		
	27	106845.5	167.8	0.24	0.03	2.286	0.004		
	29	110863.7	182.8	0.23	0.03	2.372	0.004		
	31	113855.3	189.4	0.23	0.02	2.437	0.004		

DSI_Ch0_results

			CF1			
					1ADU=21.4uV	
RC (6-bit)	out mean (ADU)	out sigma (ADU)	RC meas (us)	RC err (us)	out ampl (V)	out err (V)
1	45972.6	29.3	0.92	0.10	0.984	0.001
3	52063.4	42.0	0.81	0.09	1.114	0.001
5	59926.9	64.2	0.70	0.08	1.282	0.001
7	65700.1	83.1	0.64	0.07	1.406	0.002
9	81543.5	132.6	0.52	0.06	1.745	0.003
11	87019.2	152.9	0.49	0.05	1.862	0.003
13	94198.7	178.4	0.45	0.05	2.016	0.004
15	99420.1	210.9	0.43	0.05	2.128	0.005
17	114332.0	276.9	0.37	0.04	2.447	0.006
19	119618.0	292.9	0.35	0.04	2.560	0.006
21	126256.0	307.5	0.33	0.04	2.702	0.007



Gain	RC
15	1
13	5
	9
	13
	17
	21
	25
	29
	33
	40
	50
	63
30	1
	5
	9
	13
	17
	21
	25
	29
	33
	40
	50
	63
45	1
	5
	9
	13
	40
	63
63	1
	5
	9
	13
	40
	63
CF1	1
CFI	_
	9
	13
	17
	21
	25
	40
	63

RC 1 5 9 13 17

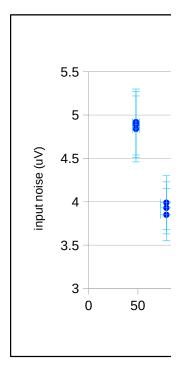
21 25 29 33 40 50

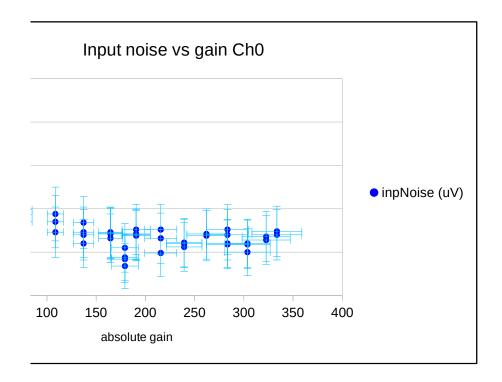
DSI_NOISE_Ch0_Gain63

RC $\frac{\text{Gain} = 63}{5}$ 9 13 40

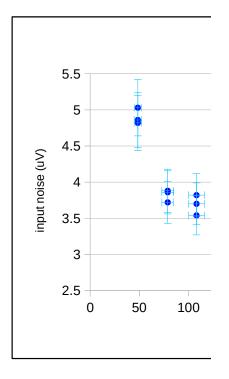
63

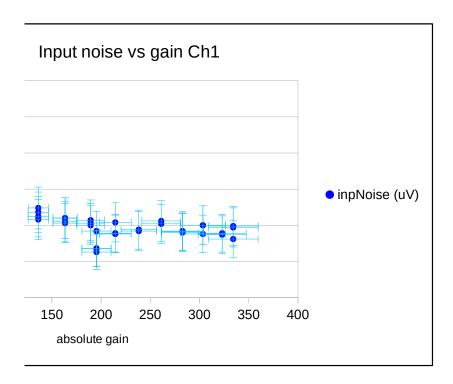
abs_gain	abs_gainErr	inpNoise (uV)	InpNoiseErr (uV)
179.2	13.6	3.44	0.27
137.2	10.4	3.73	0.29
164.5	12.4	3.72	0.29
190.6	14.4	3.71	0.29
164.5	12.4	3.73	0.29
239.4	18.1	3.6	0.28
283.4	21.4	3.59	0.28
179.2	13.6	3.42	0.27
48.05	3.63	4.84	0.38
164.5	12.4	3.71	0.29
190.6	14.4	3.69	0.29
164.5	12.4	3.66	0.28
48.05	3.63	4.92	0.38
190.6	14.4	3.76	0.29
179.2	13.6	3.34	0.26
215.6	16.3	3.49	0.27
215.6	16.3	3.66	0.29
333.6	25.3	3.74	0.29
303.7	23	3.59	0.28
78.93	5.97	3.85	0.3
215.6	16.3	3.76	0.29
262	19.8	3.69	0.29
303.7	23	3.6	0.28
108.6	8.21	3.85	0.3
303.7	23	3.5	0.27
108.6	8.21	3.94	0.31
108.6	8.21	3.73	0.29
262	19.8	3.71	0.29
78.93	5.97	3.93	0.3
322.7	24.4	3.68	0.29
333.6	25.3	3.7	0.29
78.93	5.97	3.99	0.31
322.7	24.4	3.64	0.28
48.05	3.63	4.89	0.38
137.2	10.4	3.6	0.28
190.6	14.4	3.7	0.29
283.4	21.4	3.7	0.29
137.2	10.4	3.84	0.3
179.2	13.6	3.55	0.28
137.2	10.4	3.7	0.29
239.4	18.1	3.56	0.28
283.4	21.4	3.6	0.28
239.4	18.1	3.61	0.28
283.4	21.4	3.76	0.29



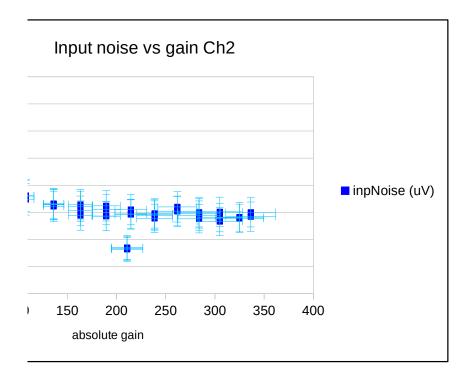


abs_		_	_gainErr	inpNoise (uV)	InpNoiseErr (uV)
	195.3		14.8	3.18	0.25
	136.2		10.3	3.68	0.28
	163.4		12.3	3.6	0.28
	189.4		14.3	3.53	0.27
	163.4		12.3	3.6	0.28
	195.3		14.8	3.13	0.24
	48.39		3.67	5.03	0.39
	163.4		12.3	3.53	0.27
	189.4		14.3	3.57	0.28
	163.4		12.3		
	48.39		3.67		
	189.4		14.3		
	195.3		14.8		
	214.4		16.2		
	334.2		25.3		
	78.75		5.96		
	334.2		25.3	3.47	
	303.4		23		0.26
	214.4		16.2		0.26
	261.1		19.7		
	214.4		16.2		
	303.4		23		
	108		8.17		
	303.4		23		
	108		8.17		
	108		8.17		
	261.1		19.7		
	78.75		5.96		
	323		24.4		
	334.2		25.3		0.26
	78.75		5.96		
	323		24.4		
	48.39		3.67		
	136.2		10.3		
	282.8		21.4		
	136.2		10.3		
	195.3		14.8		
	136.2		10.3		
	238.3		18		
	282.8		21.4		
	238.3		18		
	282.8		21.4	3.42	0.27

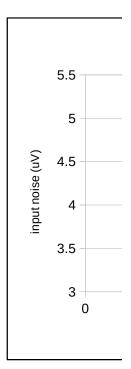


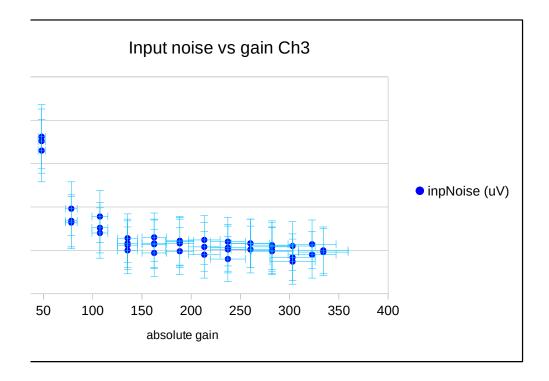


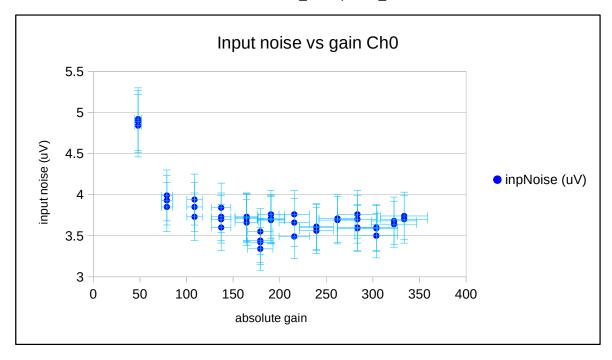
abs_gain ab	s_gainErr inpN	loise (uV) InpNo	iseErr (uV)			
210.8	15.9	2.84	0.22			
136.2	10.3	3.65	0.28			
163.4	12.4	3.53	0.27			
189.5	14.3	3.55	0.28			
163.4	12.4	3.44	0.27	6		
238.7	18.1	3.39	0.26	5.5		
283.9	21.5	3.48	0.27	3.3	Ī	
210.8	15.9	2.82	0.22	5	-	
48.47	3.67	5.14	0.4	O 45	±	
163.4	12.4	3.61	0.28	4.5		Ŧ
189.5	14.3	3.43	0.27	4.5 4.5 3.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4		-
163.4	12.4	3.64	0.28	iou		+ ⊨
48.47	3.67	5.05	0.39	± 3.5		
189.5	14.3	3.43	0.27	. <u>=</u> 3		
210.8	15.9	2.85	0.22	3		
214.6	16.2	3.47	0.27	2.5		
261.8	19.8	3.6	0.28			
214.6	16.2	3.55	0.28	2 +		100
336.4	25.4	3.5	0.27	0	50	100
304.9	23	3.4	0.26			
304.9	23	3.33	0.26			
214.6	16.2	3.46	0.27			
261.8	19.8	3.52	0.27			
304.9	23	3.51	0.27			
108	8.17	3.8	0.29			
108	8.17	3.81	0.3			
108	8.17	3.74	0.29			
261.8	19.8	3.52	0.28			
78.73	5.96	4.1	0.32			
324.9	24.6	3.39	0.26			
336.4	25.4	3.42	0.27			
78.73	5.96	4.05	0.31			
324.9	24.6	3.41	0.27			
48.47	3.67	5.13	0.4			
136.2	10.3	3.66	0.28			
189.5	14.3	3.62	0.28			
238.7	18.1	3.46	0.27			
283.9	21.5	3.5	0.27			
136.2	10.3	3.64	0.28			
210.8	10.3 15.9	2.82	0.28			
136.2	10.3	2.82 3.61	0.22			
238.7	18.1	3.44	0.28			
	21.5	3.38				
283.9 238.7			0.26			
	18.1	3.48	0.27			
283.9	21.5	3.44	0.27			

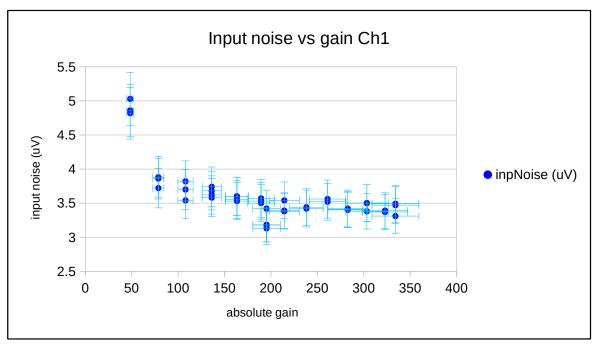


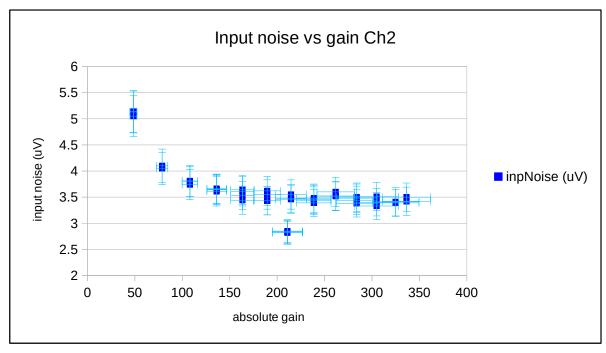
abs_gain	abs_gainErr	inpNoise (uV)	InpNoiseErr (uV)
135.4	10.2	3.56	0.28
162.4	12.3	3.47	0.27
188.4	14.2	3.6	0.28
162.4	12.3	3.58	0.28
237.3	17.9	3.4	0.26
282.1	21.3	3.54	0.28
48.14	3.63	4.65	0.36
162.4	12.3	3.65	0.28
188.4	14.2	3.61	0.28
162.4	12.3	3.57	0.28
48.14	3.63	4.76	0.37
188.4	14.2	3.49	0.27
213.3	16.1	3.45	0.27
260.2		3.58	0.28
213.3		3.62	0.28
78.24		3.98	0.31
334.2		3.5	0.27
303		3.37	0.26
213.3	16.1	3.54	0.28
260.2		3.58	0.28
303	22.9	3.42	0.27
107.3	8.11	3.76	0.29
303	22.9	3.55	0.28
107.3		3.89	0.3
322.8		3.57	0.28
107.3		3.7	0.29
260.2		3.51	0.27
78.24	5.91	3.84	0.3
322.8		3.45	0.27
334.2		3.48	0.27
78.24		3.82	0.3
48.14		4.81	0.37
135.4	10.2	3.58	0.28
188.4	14.2	3.58	0.28
237.3		3.6	0.28
282.1	21.3	3.5	0.27
135.4			0.28
135.4			0.27
237.3		3.51	0.27
282.1			0.27
237.3			0.27
282.1	21.3	3.56	0.28

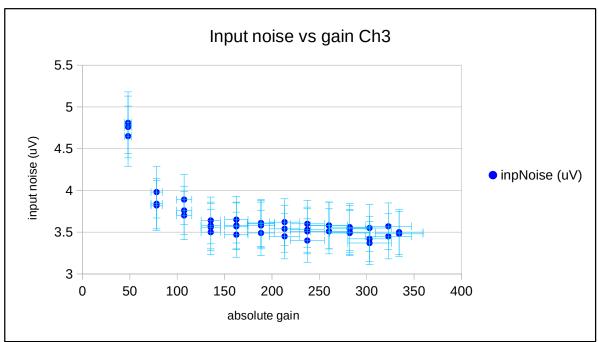












Gain calibration 4-channels transparent mode

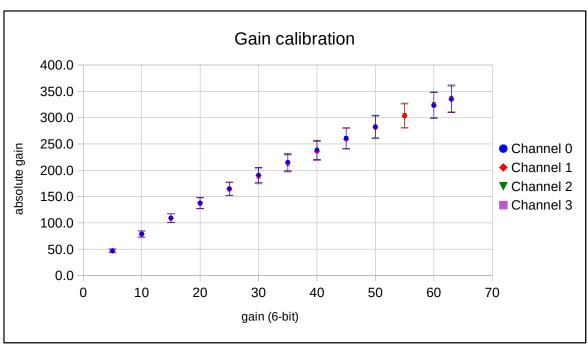
	Channel 0							
					1ADU=21.4uV			
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)	out error (V)		
5	11069.3	38.0	47.0	3.6	0.237	0.001		
10	18591.8	60.8	78.9	6.0	0.398	0.001		
15	25722.0	81.7	109.2	8.3	0.550	0.002		
20	32488.7	101.4	138.0	10.4	0.695	0.002		
25	38896.8	120.7	165.1	12.5	0.832	0.003		
30	45000.0	143.2	191.1	14.4	0.963	0.003		
35	50811.5	160.8	215.8	16.3	1.087	0.003		
40	56278.0	185.5	239.0	18.1	1.204	0.004		
45	61494.2	200.0	261.1	19.7	1.316	0.004		
50	66453.8	209.3	282.2	21.3	1.422	0.004		
55								
60	76034.6	259.1	322.8	24.4	1.627	0.006		
63	78804.1	269.1	334.6	25.3	1.686	0.006		
CF1	42202.9	160.2	179.2	13.6	0.903	0.003		

Channel 1								
					1ADU=21.4uV			
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)	out error (V)		
5	11018.6	42.0	46.8	3.5	0.236	0.001		
10	18524.5	61.5	78.7	6.0	0.396	0.001		
15	25641.4	85.6	108.9	8.2	0.549	0.002		
20	32365.9	109.3	137.5	10.4	0.693	0.002		
25	38772.1	133.1	164.6	12.5	0.830	0.003		
30	44847.4	149.6	190.4	14.4	0.960	0.003		
35	50530.7	173.5	214.6	16.2	1.081	0.004		
40	55709.4	195.3	236.5	17.9	1.192	0.004		
45	61116.9	212.7	259.5	19.6	1.308	0.005		
50	66370.9	232.4	281.8	21.3	1.420	0.005		
55	71394.3	262.5	303.1	22.9	1.528	0.006		
60	76193.7	268.4	323.6	24.5	1.631	0.006		
63	78972.5	284.7	335.3	25.4	1.690	0.006		
CF1	45995.5	185.6	195.3	14.8	0.984	0.004		

	Channel 2							
					1ADU=21.4uV			
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)	out error (V)		
5	11034.7	44.2	46.9	3.5	0.236	0.001		
10	18544.4	64.9	78.7	6.0	0.397	0.001		
15	25673.9	83.3	109.0	8.2	0.549	0.002		
20	32390.1	105.0	137.5	10.4	0.693	0.002		
25	38788.7	124.4	164.7	12.5	0.830	0.003		
30	44735.7	161.3	189.9	14.4	0.957	0.003		
35	50285.9	165.4	213.5	16.1	1.076	0.004		
40	55984.7	204.4	237.7	18.0	1.198	0.004		
45	61476.5	211.1	261.0	19.7	1.316	0.005		
50	66723.4	232.1	283.3	21.4	1.428	0.005		
55	71787.0	236.7	304.8	23.0	1.536	0.005		
60	76611.6	258.2	325.3	24.6	1.639	0.006		
63	79415.0	276.0	337.2	25.5	1.699	0.006		
CF1	49657.2	181.2	210.8	15.9	1.063	0.004		

Gain calibration 4-channels transparent mode

	Channel 3							
					1ADU=21.4uV			
Gain(6bit)	out ampl (ADU)	out error (ADU)	abs_gain	abs_gainErr	out ampl (V)	out error (V)		
5	10966.2	40.0	46.6	3.5	0.235	0.001		
10	18442.1	62.1	78.3	5.9	0.395	0.001		
15	25529.5	87.9	108.4	8.2	0.546	0.002		
20	32200.2	110.5	136.7	10.3	0.689	0.002		
25	38549.6	128.5	163.7	12.4	0.825	0.003		
30	44302.6	171.0	188.1	14.2	0.948	0.004		
35	50013.4	176.7	212.4	16.1	1.070	0.004		
40	55686.5	190.5	236.4	17.9	1.192	0.004		
45	61138.3	204.5	259.6	19.6	1.308	0.004		
50	66344.4	232.0	281.7	21.3	1.420	0.005		
55	71343.0	238.7	302.9	22.9	1.527	0.005		
60	76071.0	263.7	323.0	24.4	1.628	0.006		
63	78892.0	281.7	335.0	25.3	1.688	0.006		
CF1								



Gain calibration 4-channels transparent mode

date 11 - December - 2019

Brief check with the oscilloscope						
gain(6-bit)	CROCout oscilloscope (V)	abs_gain				
5	0.252	50.4				
10	0.404	80.8				
20	0.705	141.0				
30	0.973	194.6				
40	1.240	248.0				
50	1.438	287.6				
63	1.711	342.2				

input pulse	5	mV
Channel	0	
Offset	120	
POL=POLIB	127	
old test board		

In good agreement with the calibration results.

NOISE_Transparent_ALL corrected

Channel 0			
abs_gain	gainErr	noise	noiseErr
179.2	13.6	3.52	0.27
137.2	10.4	3.47	0.26
164.5	12.4	3.45	0.26
190.6	14.4	3.47	0.26
164.5	12.4	3.46	0.26
239.4	18.1	3.33	0.25
283.4	21.4	3.32	0.25
179.2	13.6	3.52	0.27
48.05	3.63	5.63	0.43
164.5	12.4	3.41	0.26
190.6	14.4	3.44	0.26
164.5	12.4	3.42	0.26
48.05	3.63	5.65	0.43
190.6	14.4	3.49	0.27
179.2	13.6	3.49	0.27
215.6	16.3	3.32	0.25
262	19.8	3.39	0.26
215.6	16.3	3.34	0.25
333.6	25.3	3.4	0.26
303.7	23	3.32	0.25
78.93	5.97	3.86	0.29
333.6	25.3	3.45	0.26
303.7	23	3.33	0.25
215.6	16.3	3.35	0.26
262	19.8	3.4	0.26
215.6	16.3	3.35	0.25
303.7	23	3.32	0.25
108.6	8.21	3.6	0.27
303.7	23	3.27	0.25
108.6	8.21	3.7	0.28
322.7	24.4	3.34	0.25
108.6	8.21	3.65	0.28
262	19.8	3.41	0.26
78.93	5.97	3.92	0.3
322.7	24.4	3.4	0.26
333.6	25.3	3.41	0.26
78.93	5.97	3.91	0.3
322.7	24.4	3.32	0.25
48.05	3.63	5.64	0.43
137.2	10.4	3.47	0.26
190.6	14.4	3.41	0.26
283.4	21.4	3.37	0.26
137.2	10.4	3.49	0.27
179.2	13.6	3.48	0.27
137.2	10.4	3.51	0.27
239.4	18.1	3.3	0.25
283.4	21.4	3.38	0.26
239.4	18.1	3.35	0.25
283.4	21.4	3.4	0.26
200.4		3. 1	5.25

Channel 1			
abs_gain	gainErr	noise	noiseErr
195.3	14.8	3.37	0.26
136.2	10.3	3.28	0.25
163.4	12.3	3.26	0.25
189.4	14.3	3.22	0.24
163.4	12.3	3.22	0.24
238.3	18	3.08	0.23
282.8	21.4	3.07	0.23
195.3	14.8	3.35	0.26
48.39	3.67	5.46	0.42
163.4	12.3	3.23	0.25
189.4	14.3	3.21	0.24
163.4	12.3	3.24	0.25
48.39	3.67	5.33	0.41
189.4	14.3	3.17	0.24
195.3	14.8	3.38	0.26
214.4	16.2	3.09	0.23
261.1	19.7	3.14	0.24
214.4	16.2	3.13	0.24
334.2	25.3	3.13	0.24
303.4	23	3.13	0.24
78.75	5.96	3.76	0.29
334.2	25.3	3.14	0.24
303.4	23	3.13	0.24
214.4	16.2	3.1	0.24
261.1	19.7	3.13	0.24
214.4	16.2	3.11	0.24
303.4	23	3.11	0.24
108	8.17	3.54	0.27
303.4	23	3.12	0.24
108	8.17	3.51	0.27
323	24.4	3.04	0.23
108	8.17	3.44	0.26
261.1	19.7	3.18	0.24
78.75	5.96	3.8	0.29
323	24.4	3.13	0.23
334.2	25.3	3.08	0.24
78.75	5.96	3.87	0.29
323	24.4	3.1	0.23
48.39	3.67	5.35	0.24
136.2	10.3	3.3	0.41
189.4	14.3	3.17	0.23
	21.4		0.24
282.8 136.2	10.3	3.12 3.34	0.24
195.3	14.8	3.35	0.26
136.2	10.3	3.3	0.25
238.3	18	3.12	0.24
282.8	21.4	3.12	0.24
238.3	18	3.14	0.24
282.8	21.4	3.09	0.24

abs_	_gain
	210.8
	136.2
	163.4
	189.5
	163.4
	238.7
	283.9
	210.8
	48.47
	163.4
	189.5
	163.4 48.47
	189.5
	210.8
	214.6
	261.8
	214.6
	336.4
	304.9
	78.73
	336.4
	304.9
	214.6
	261.8
	214.6
	304.9
	108
	304.9
	108
	324.9
	108 261.8
	78.73 324.9
	336.4
	78.73
	324.9
	48.47
	136.2
	189.5
	283.9
	136.2
	210.8
	136.2
	238.7
	283.9
	238.7
	283.9

NOISE_Transparent_ALL corrected

Chann	el 2	
gainErr	noise	noiseErr
15.9	2.49	0.19
10.3	3.37	0.26
12.4	3.34	0.25
14.3	3.27	0.25
12.4	3.33	0.25
18.1	3.05	0.23
21.5	3.08	0.23
15.9	2.51	0.19
3.67	5.66	0.43
12.4	3.36	0.26
14.3	3.29	0.25
12.4	3.4	0.26
3.67	5.62	0.43
14.3	3.24	0.25
15.9	2.5	0.19
16.2	3.11	0.24
19.8	3.21	0.24
16.2	3.17	0.24
25.4	3.17	0.24
23	3.11	0.24
5.96	3.99	0.3
25.4	3.17	0.24
23	3.12	0.24
16.2	3.17	0.24
19.8	3.19	0.24
16.2	3.19	0.24
23	3.13	0.24
8.17	3.72	0.28
23	3.13	0.24
8.17	3.69	0.28
24.6	3.03	0.23
8.17	3.64	0.28
19.8		0.24
5.96	4.02	0.31
24.6	3.1	0.24
25.4	3.2	0.24
5.96	4	0.24
24.6	3.05	0.23
3.67	5.7	0.23
10.3	3.39	0.45
14.3	3.27	0.25
21.5	3.14	0.23
10.3	3.37	0.24
15.9	2.49	0.20
10.3	3.4	0.19
18.1	3.11	0.24
21.5	3.11	0.24
18.1	3.15	0.24
	3.15	0.24
21.5	3.11	0.24

Channel 3			
abs_gain	gainErr	noise	noiseErr
135.4	10.2	3.29	0.25
162.4	12.3	3.28	0.25
188.4	14.2	3.24	0.25
162.4	12.3	3.31	0.25
237.3	17.9	3.1	0.24
282.1	21.3	3.11	0.24
48.14	3.63	5.38	0.41
162.4	12.3	3.29	0.25
188.4	14.2	3.28	0.25
162.4	12.3	3.27	0.25
48.14	3.63	5.35	0.41
188.4	14.2	3.3	0.25
213.3	16.1	3.16	0.24
260.2	19.7	3.28	0.25
213.3	16.1	3.21	0.24
334.2	25.2	3.17	0.24
303	22.9	3.14	0.24
78.24	5.91	3.82	0.29
334.2	25.2	3.16	0.24
303	22.9	3.15	0.24
213.3	16.1	3.2	0.24
260.2	19.7	3.23	0.25
213.3	16.1	3.19	0.24
303	22.9	3.16	0.24
107.3	8.11	3.5	0.27
303	22.9	3.17	0.24
107.3	8.11	3.56	0.27
322.8	24.4	3.07	0.23
107.3	8.11	3.55	0.27
260.2	19.7	3.22	0.24
78.24	5.91	3.79	0.29
322.8	24.4	3.14	0.24
334.2	25.2	3.16	0.24
78.24	5.91	3.79	0.29
322.8	24.4	3.13	0.24
48.14	3.63	5.27	0.4
135.4	10.2	3.38	0.26
188.4	14.2	3.25	0.25
282.1	21.3	3.13	0.24
135.4	10.2	3.39	0.26
135.4	10.2	3.27	0.25
237.3	17.9	3.12	0.24
282.1	21.3	3.13	0.24
237.3	17.9	3.15	0.24
282.1	21.3	3.18	0.24

