

Tbase -3.09 ms
 500 μ s/div
 100 kS
 Trigger C4 DC
 Normal
 Edge
 2.42 V
 20 MS/s
 Negative

C2 DC1M
 100 mV/div
 298.0 mV
 F2 <C2>
 30.0 mV/div
 500 μ s/div
 27 #

20-Oct-16
14:53:01

1
20 μ s
100mV

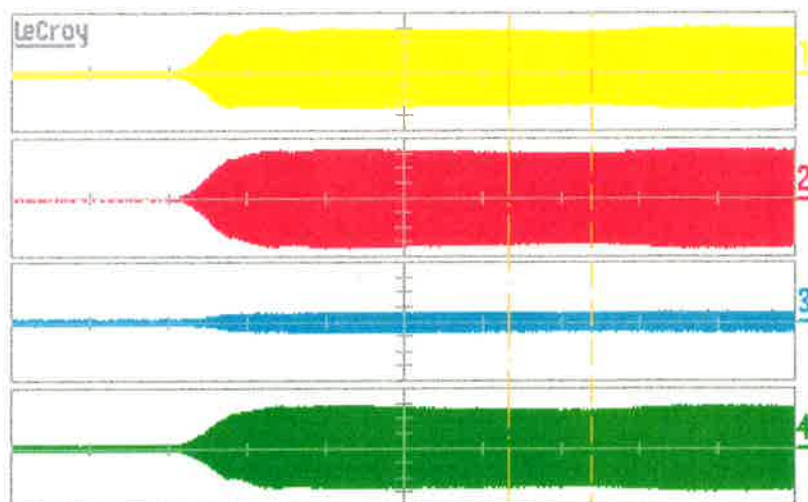
2
20 μ s
200mV

3
20 μ s
50mV

4
20 μ s
50mV

20 μ s

1 .1 V DC
2 .2 V DC
3 50 mV 50 Ω
4 50 mV 50 Ω



← 982 μ s

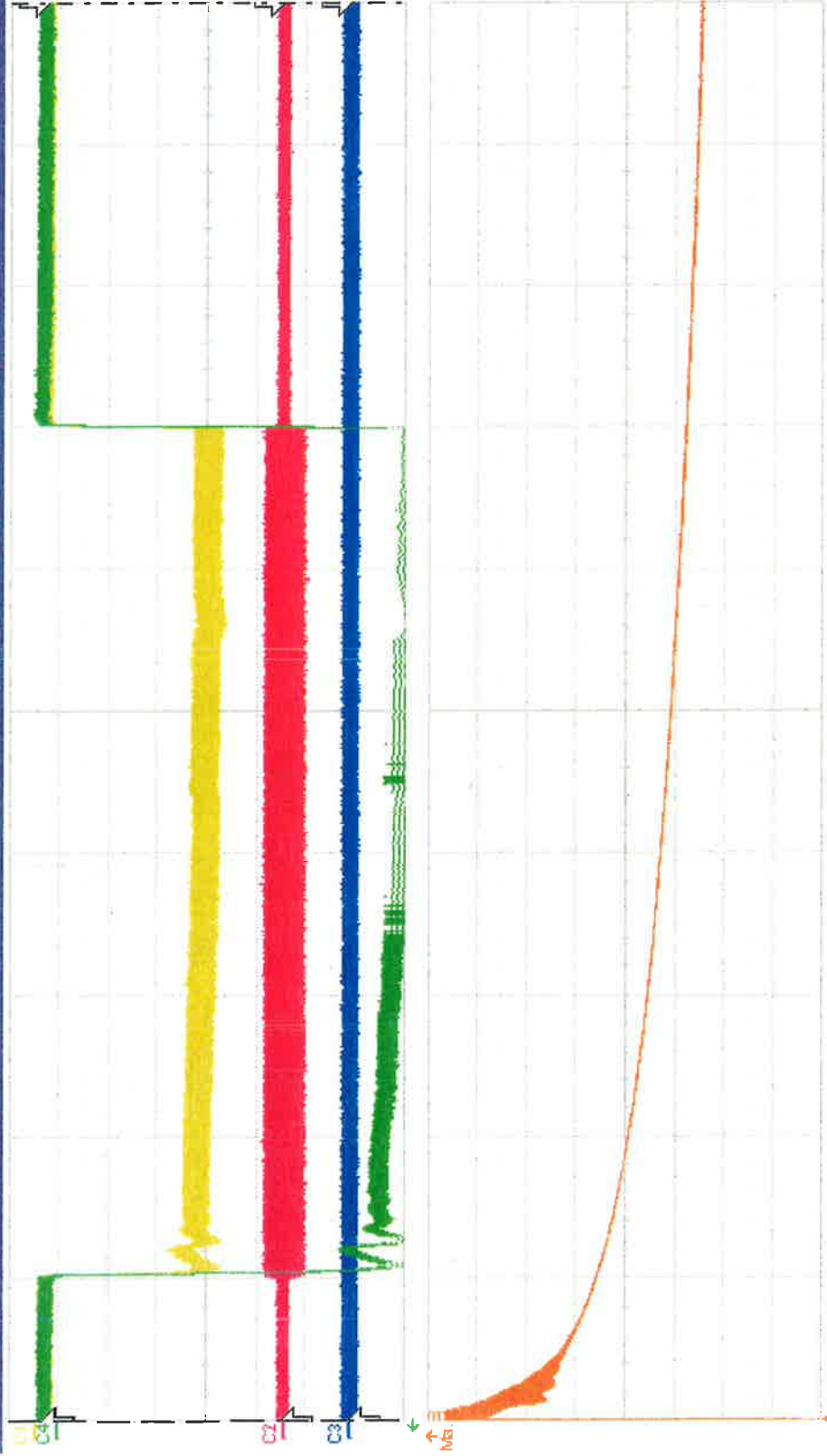
	35 sweeps:	average	low	high	sigma
pkpk(1)		521mV	497	619	29
pkpk(2)		1.244 V	1.200	1.400	0.050
pkpk(3)		68.9mV	64.1	78.1	3.2
pkpk(4)		261.7mV	251.6	298.4	11.0
phase(1,2)		4.9 °	0.1	10.0	1.9



Ext10 DC 0.3 V 1M Ω

200 MS/s

NORMAL



Timebase -3.02 ms
 500 μ s/div
 1.00 MS
 Trigger Normal
 Edge
 Ext10 DC
 0.00 V
 Negative
 X1= 5.519990 ms Δ X= -4.999990 ms
 X2= 520.000 μ s 1/ Δ X= -200.0004 Hz

Math -FFT(C4)
 9.3 dB/div
 200 kHz/div
 1.15 V

C4
 10.0 mV/div
 30.00 mV ofst
 3.04 mV
 2.81 mV
 -230 μ V

C3
 100 V/div
 -291.0 V ofst
 11.2 V
 4.1 V
 -7.1 V

C2
 1.00 V/div
 -1.560 V ofst
 -34 mV
 -34 mV
 0 mV

C1
 20.0 mV/div
 69.00 mV ofst
 -4.12 mV
 -3.09 mV
 1.03 mV

20-Oct-16
14:53:26

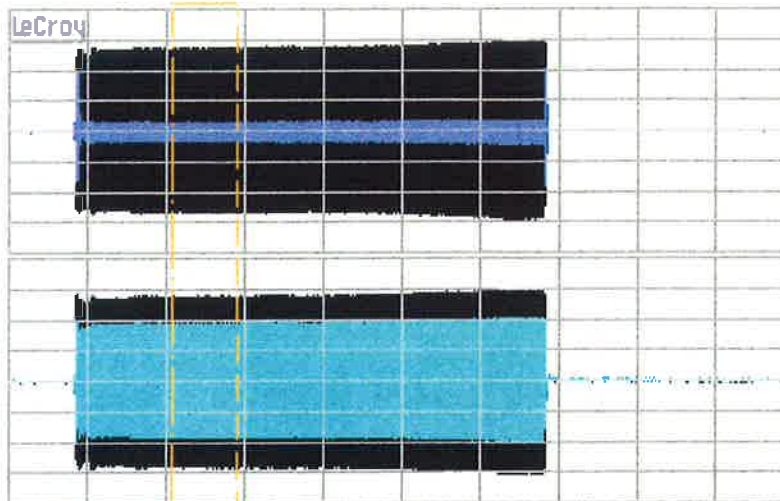
1
.5 ms
1.00 V

2
.5 ms
0.50 V

3
.5 ms
1.00 V

4
.5 ms
0.50 V

.5 ms
1 1 V AC
2 .5 V AC
3 1 V AC
4 .5 V AC



← 0.60 ms

567 sweeps: average low high sigma
rms(1) 1.773 V 1.469 2.120 0.145
rms(2) 86.2mV 60.3 161.0 17.6
rms(3) 1.847 V 1.540 2.196 0.144
rms(4) 610.4mV 473.9 837.1 66.6
phase(1,3) 88 ° 46 115 24



Ext10 DC 0.05 V 1MΩ

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

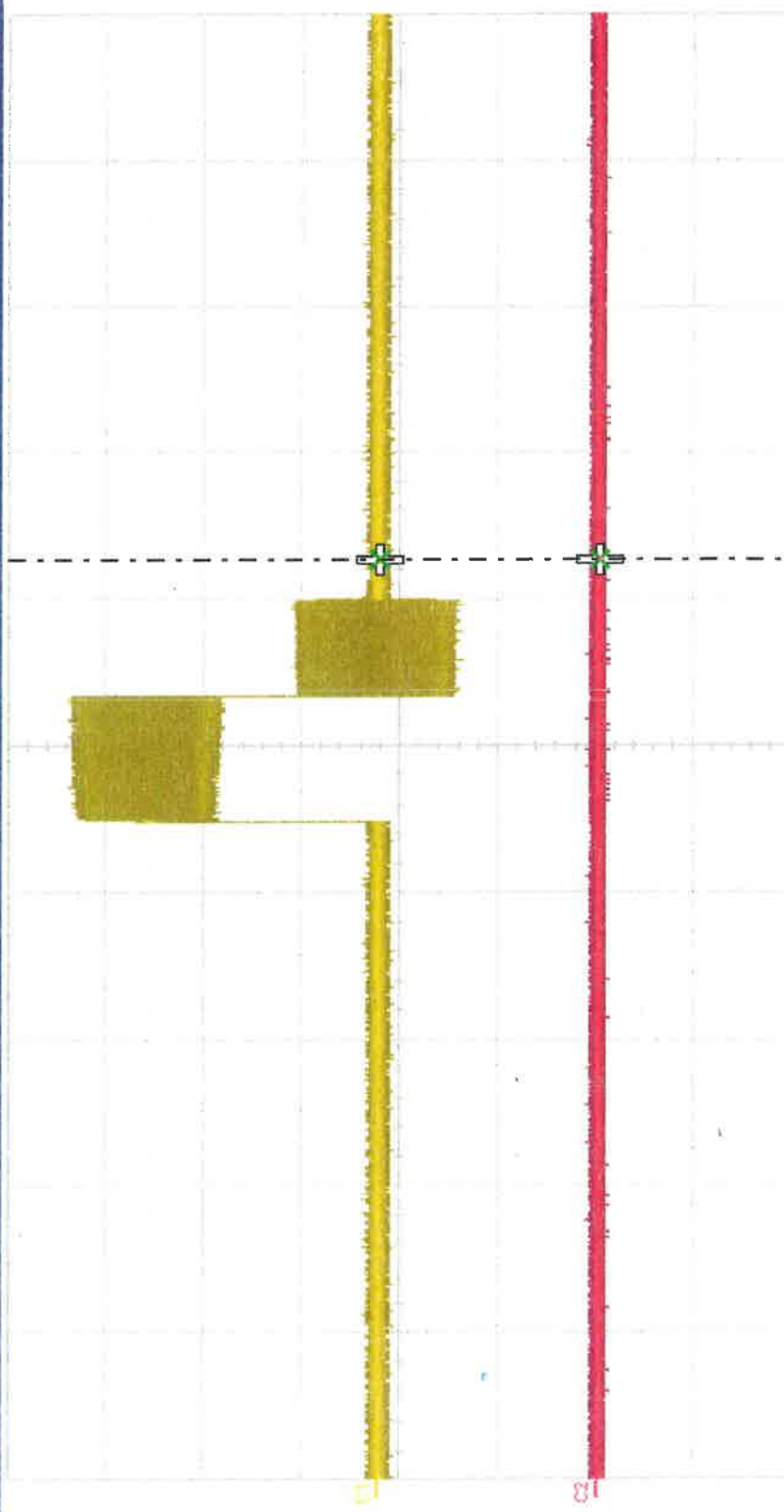
Gain
Fixed ☒
variable

Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

20 MS/s

☒ NORMAL

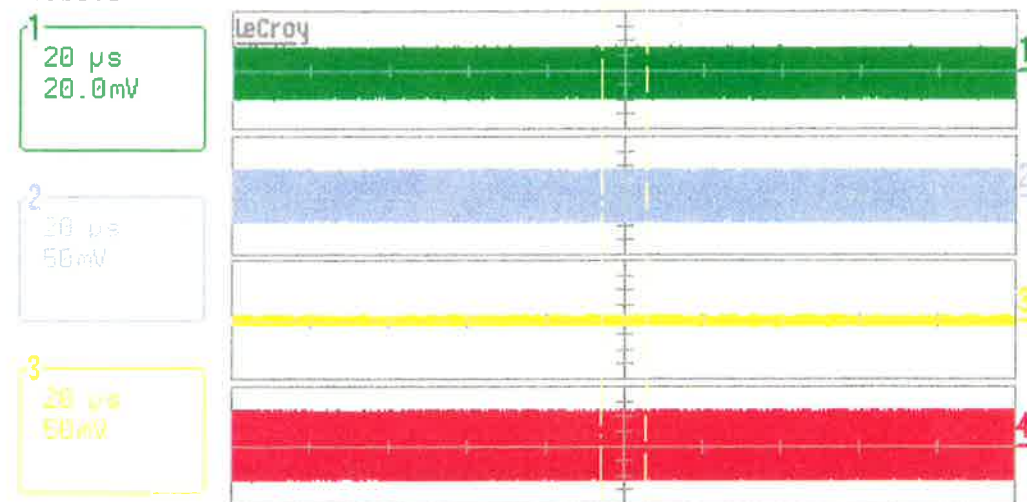


Measure	P1:mean(C4)	P2:rms(C4)	P3:(P1+P2)	P4:---	P5:ampl(C2)	P6:---	P7:---	P8:---
value	-32 mV	328 mV			22 V			
status	✓	✓			✓			

C1	DCIM	2.00 V/div	420 mV offset	-27 mV
C2	BWIDCIN	100 V/div	-202.0 V offset	-2.8 V

Tbase	-2.04 ms	Trigger	ERR10 DC
1.00 MS	2.00 ms/div	Normal	0.00 V
50 MS/s	50 MS/s	Edge	Positive
X1= 4.58000 ms			

20-Oct-16
14:53:04



1
20 μ s
20.0mV

2
20 μ s
50mV

3
20 μ s
50mV

4
20 μ s
50mV

← 1.146 ms

	41 sweeps:	average	low	high	sigma
pkpk(1)		69.1mV	64.4	76.2	2.8
pkpk(2)		171.9mV	157.8	181.3	5.2
pkpk(3)		41.8mV	37.5	45.3	1.4
pkpk(4)		231.3mV	217.2	243.8	6.3
phase(3,4)		- - -	- - -	- - -	- - -

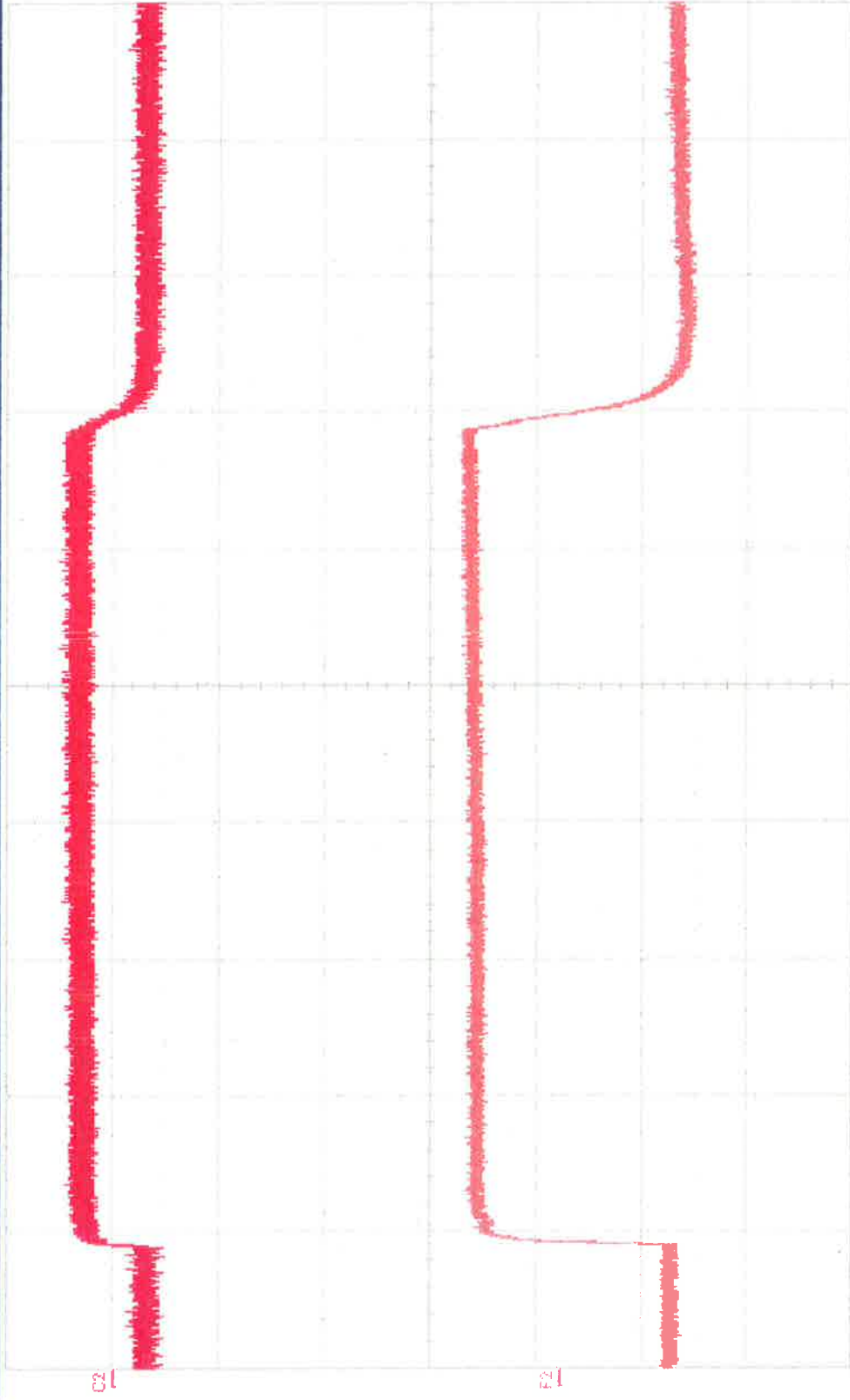
20 μ s
1 20 mV 50 Ω
2 50 mV 50 Ω
3 50 mV 50 Ω
4 50 mV 50 Ω



Ext10 DC 0.15 V 1M Ω

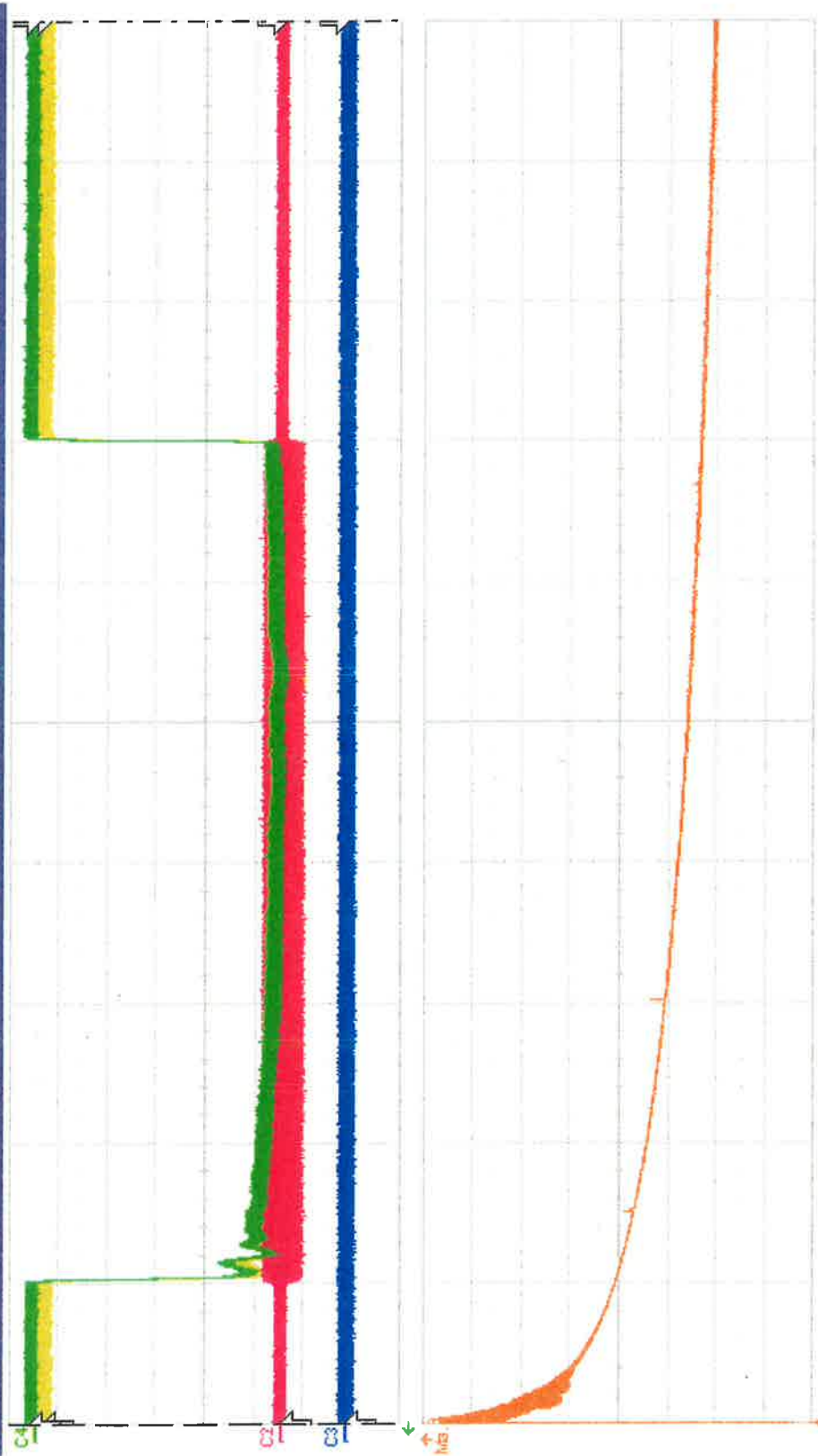
200 MS/s

NORMAL



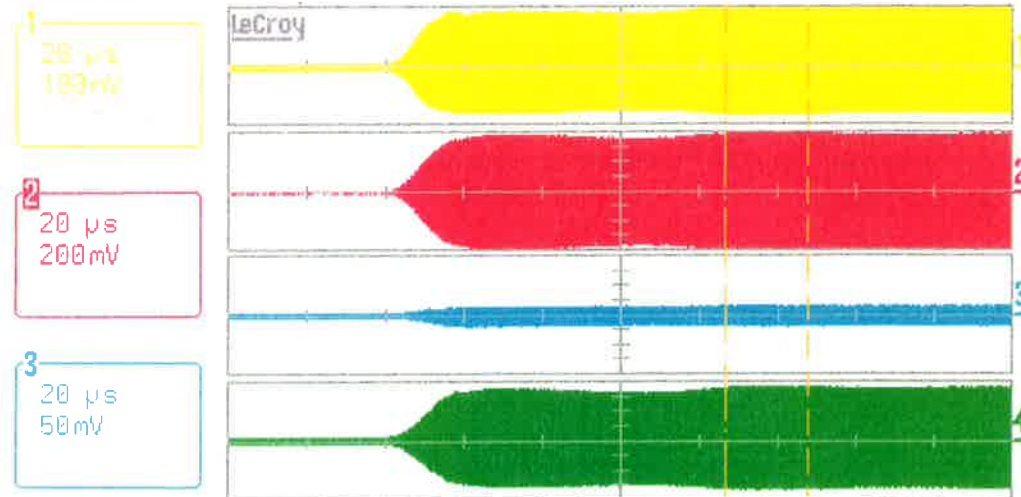
C2 DC1M 100 mV/div 298.0 mV
F2 <C2> 30.0 mV/div 500 μ S/div 28 #

Tbase -3.09 ms
100 kS 500 μ S/div
Trigger C4 DC Normal 2.42 V
Edge Negative



C1	DCIM	20.0 mV/div 69.00 mV ofst	↑ ↓	ΔV	4.48 mV 3.47 mV 1.01 mV
C2	DCIM	1.00 V/div -1.560 V ofst	↑ ↓	ΔV	17 mV 29 mV 12 mV
C3	DCIM	100 V/div -291.0 V ofst	↑ ↓	ΔV	1.1 V -800 mV -1.9 V
C4	DCIM	20.0 mV/div 69.00 mV ofst	↑ ↓	ΔV	2.83 mV 3.25 mV 500 μV
Math	<FFT(C4)>	9.3 dB/div 200 kHz/div	↑ ↓	Δy	343 #
Timebase	-3.02 ms	500 μs/div 1.00 MS	Normal 200 MS/s	Edge	Ext10 DC
X1	5.519990 ms	ΔX=	-4.999990 ms		
X2	520.000 μs	1/ΔX=	-200.0004 Hz		

20-Oct-16
15:01:05



← 982 μ s

	1003 sweeps:	average	low	high	sigma
pkpk(1)	↕	605mV	469	734	60
pkpk(2)	↕	1.361 V	1.119	1.594	0.128
pkpk(3)		67.0mV	48.4	100.0	10.2
pkpk(4)		293.2mV	240.6	362.5	26.5
phase(1,2)		-1.4 °	-18.6	21.3	4.7

20 μ s

1	.1	V	DC
2	.2	V	DC
3	50	mV	50 Ω
4	50	mV	50 Ω



Ext10 DC 0.3 V 1M Ω

200 MS/s

NORMAL

20-Oct-16
15:01:30

1
.5 ms
1.00 V

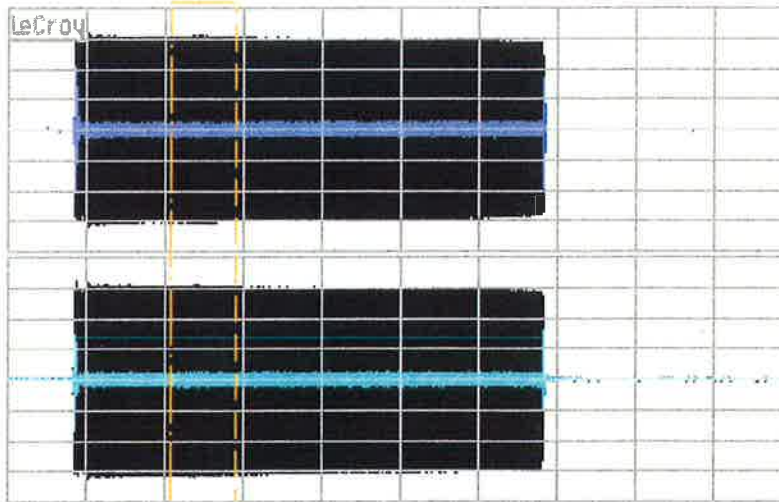
2
.5 ms
0.50 V

3
.5 ms
1.00 V

4
.5 ms
0.50 V

.5 ms

1 1 V AC
2 .5 V AC
3 1 V AC
4 .5 V AC



← 0.60 ms

388 sweeps:

	average	low	high	sigma
rms(1)	1.880 V	1.721	2.227	0.114
rms(2)	51.8mV	45.8	88.6	9.1
rms(3)	1.927 V	1.768	2.266	0.112
rms(4)	71.7mV	66.2	85.1	3.2
phase(1,3)	86 °	45	113	24



Ext10 DC 0.05 V 1MΩ

CHANNEL 4

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
Fixed ☒ variable

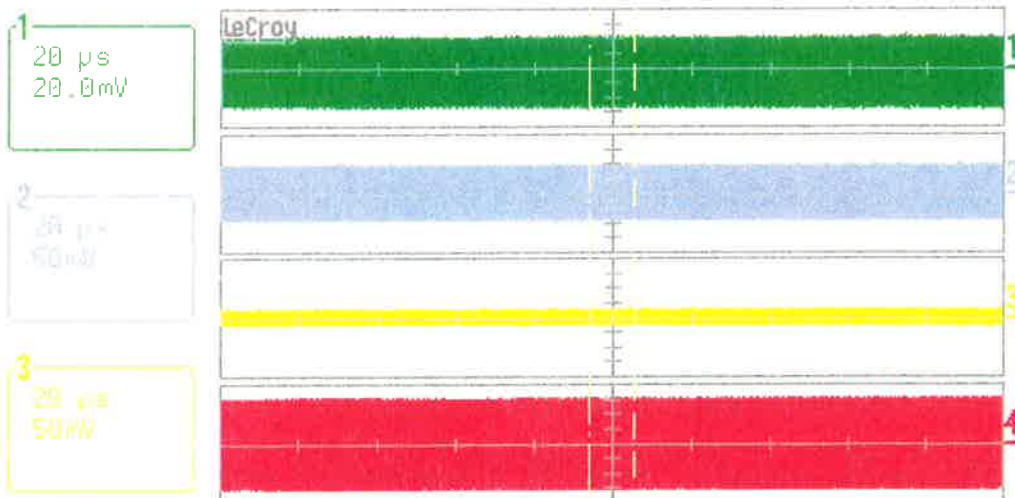
Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

20 MS/s

NORMAL

20-Oct-16
15:01:08



1
20 μs
20.0mV

2
20 μs
50mV

3
20 μs
50mV

4
20 μs
50mV

20 μs

1 20 mV 50Ω
2 50 mV 50Ω
3 50 mV 50Ω
4 50 mV 50Ω

← 1.146 ms

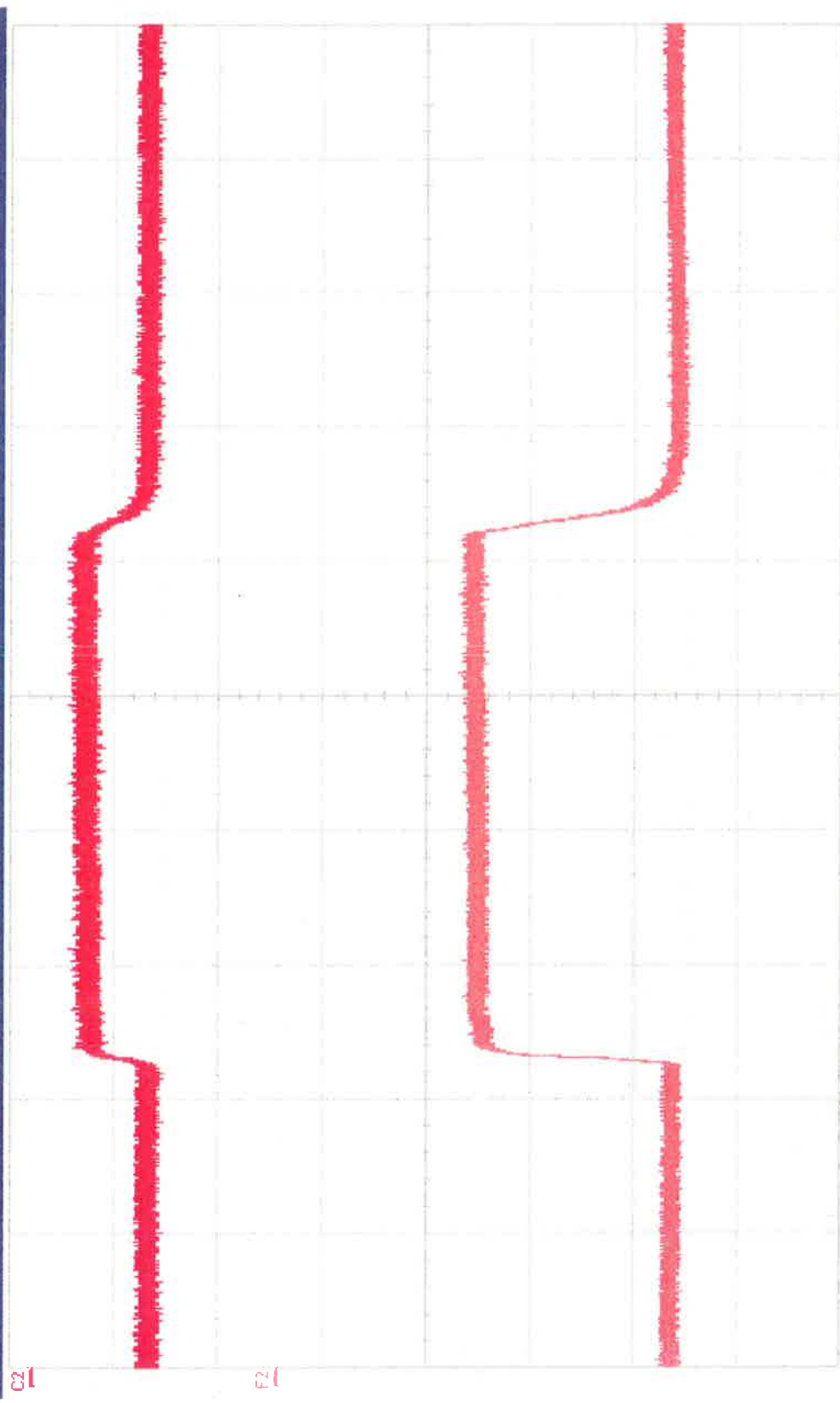
	1010 sweeps:	average	low	high	sigma
pkpk(1)		80.6mV	61.2	105.6	7.6
pkpk(2)		175.5mV	150.0	207.8	12.3
pkpk(3)		51.2mV	37.5	75.0	6.3
pkpk(4)		277.8mV	217.2	335.9	22.1
phase(3,4)		-24.84 °	-223.43	143.85	88.56



Ext10 DC 0.15 V 1MΩ

200 MS/s

NORMAL



C2

F2

C2
DCIM
100 mV/div
378.0 mV

F2
30.0 mV/div
500 μ S/div
20 #

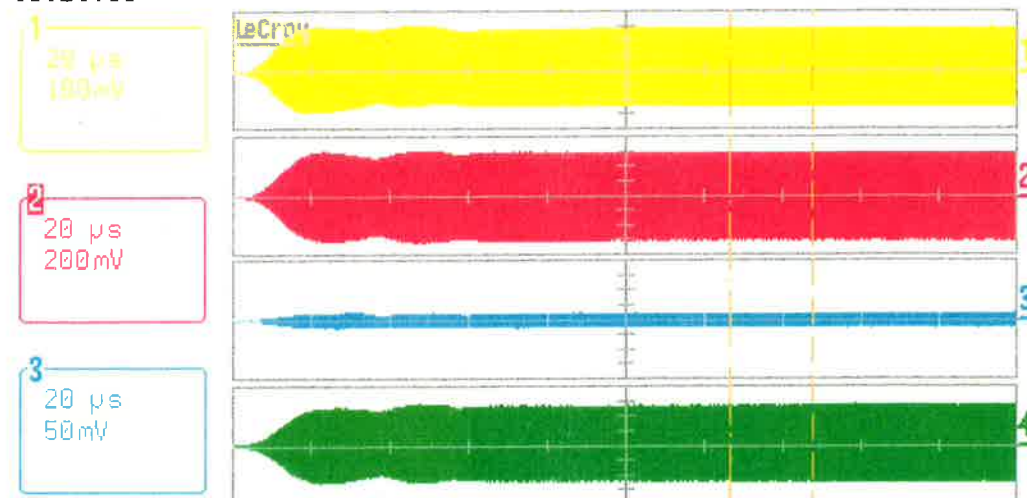
Tbase -1.52 ms
500 μ S/div
100 kS

Trigger C4 DC
Normal 2.42 V
Edge Negative

LeCroy

10/20/2016 3:20:06 PM

20-Oct-16
15:21:53



← 120 μs

	1524 sweeps:	average	low	high	sigma
pkpk(1)		586mV	419	753	84
pkpk(2)		1.292 V	0.944	1.594	0.181
pkpk(3)		57.8mV	40.6	75.0	6.8
pkpk(4)		286.5mV	204.7	359.4	39.0
phase(1,2)		-2.8 °	-6.0	2.0	1.0

20 μs

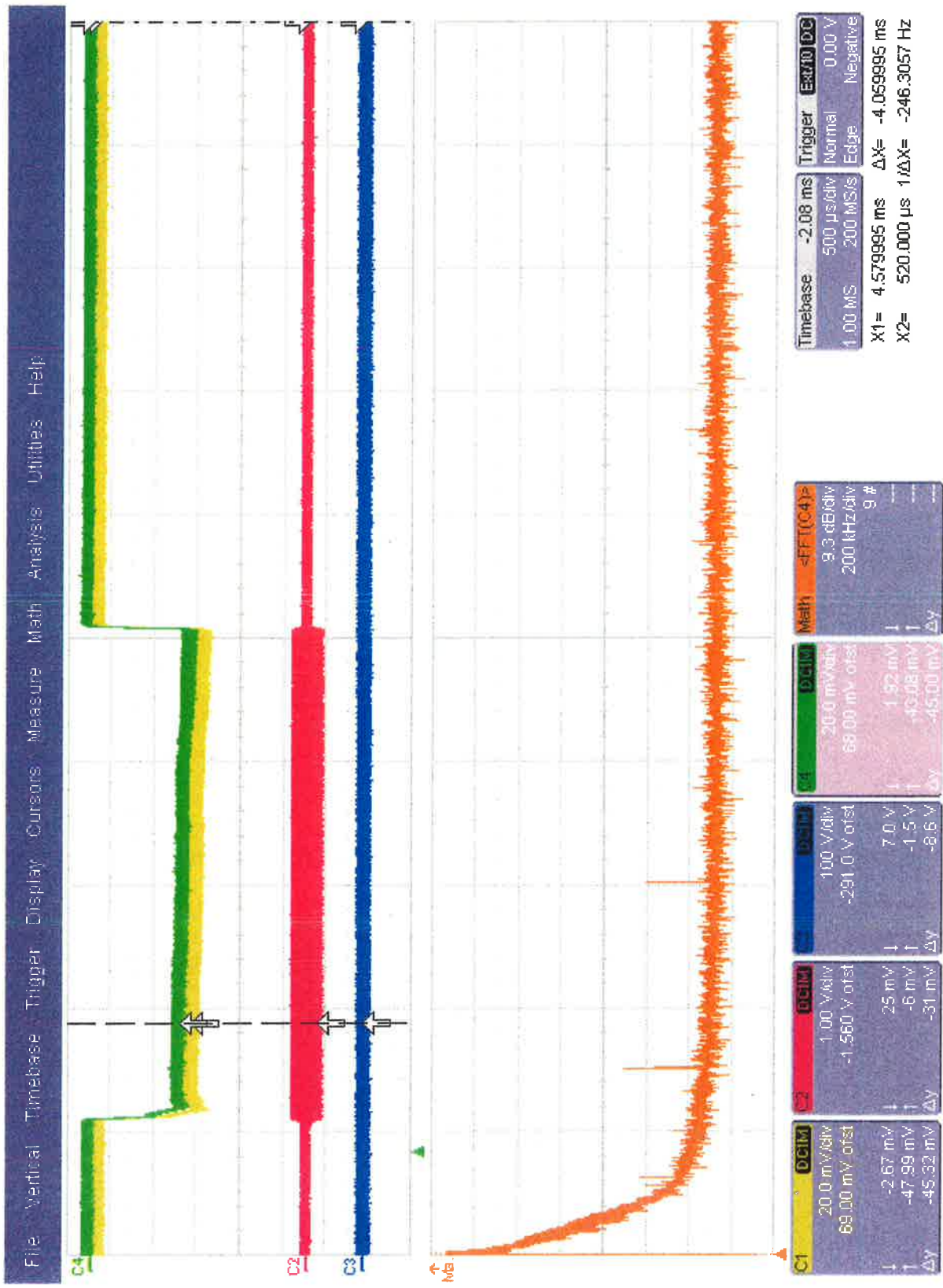
1	.1	V	DC
2	.2	V	DC
3	50	mV	50Ω
4	50	mV	50Ω



Ext10 DC 0.3 V 1MΩ

200 MS/s

NORMAL



10/20/2016 3:20:27 PM

LeCroy

20-Oct-16
15:22:00

MEASURE

1
20 μ s
20.0mV

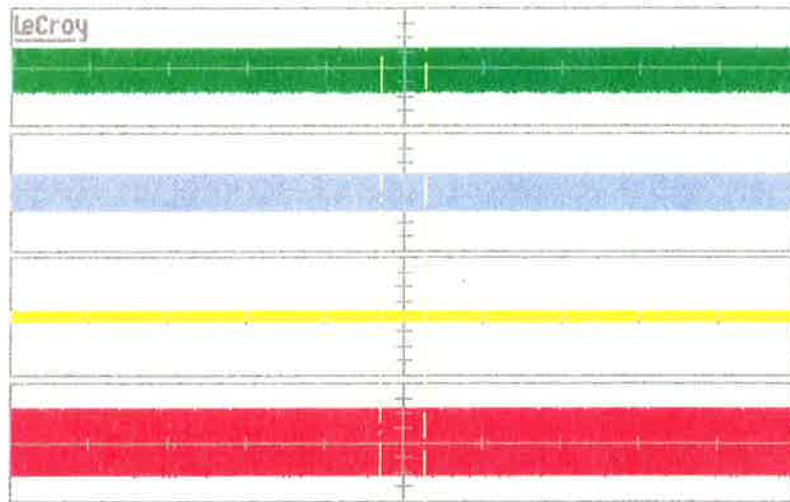
2
20 μ s
50mV

3
20 μ s
50mV

4
20 μ s
50mV

20 μ s

1 20 mV 50 Ω
2 50 mV 50 Ω
3 50 mV 50 Ω
4 50 mV 50 Ω



← 1.146 ms

	1608 sweeps:	average	low	high	sigma
pkpk(1)		80.1mV	51.2	107.5	12.3
pkpk(2)		162.5mV	42.2	200.0	26.7
pkpk(3)		51.4mV	32.8	84.4	7.3
pkpk(4)		267.7mV	40.6	345.3	49.3
phase(2,1)		58.98 °	3.97	78.80	2.75

mode
Std Voltage
Std Time
Custom
Dashboard

statistics
OFF On

CHANGE
PARAMETERS

From
4.69 div
Track OFF On

to
5.28 div

200 MS/s

NORMAL

Ext10 DC 0.15 V 1M Ω

20-Oct-16

15:22:35

1
.5 ms
1.00 V

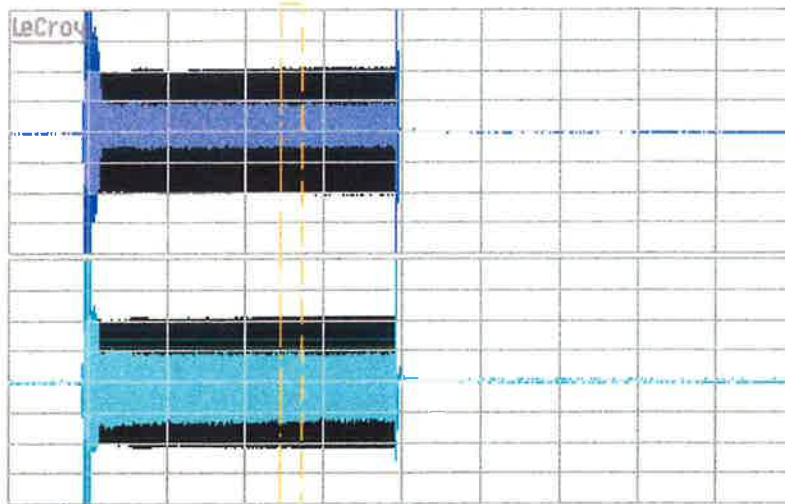
2
.5 ms
100mV

3
.5 ms
1.00 V

4
.5 ms
100mV

.5 ms

1 1 V AC
2 .1 V AC
3 1 V AC
4 .1 V AC



6 sweeps: average low high sigma

rms(1)	1.465 V	1.443	1.498	0.026
rms(2)	41.6mV	40.9	42.3	0.6
rms(3)	1.514 V	1.492	1.548	0.026
rms(4)	77.9mV	76.0	80.5	1.9
phase(1,3)	86 °	47	112	25



Ext10 DC 0.05 V 1MΩ

CHANNEL 2

Trace
OFF ☒

Coupling

ZOOM

FIND

Gain
Fixed ☒
variable

Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

20 MS/s

☒ NORMAL

