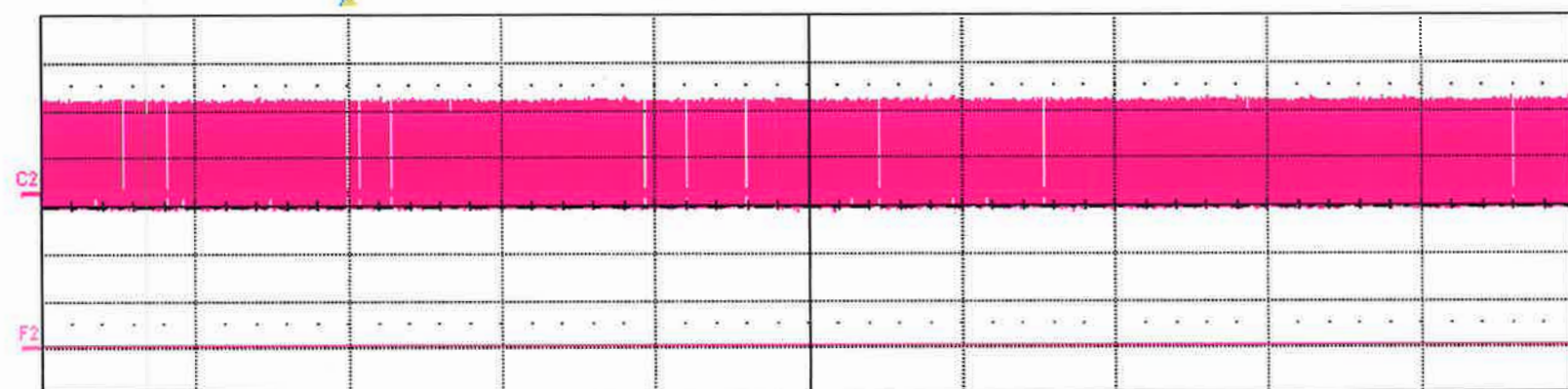
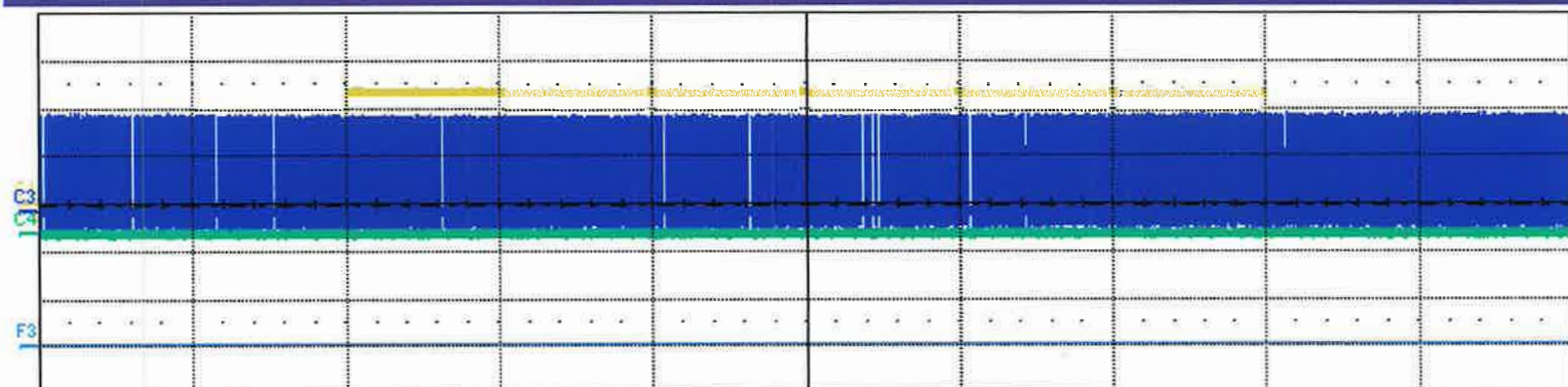


File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure
value
status

P1:mean(C1)
2.796 V

P2:sdev(C1)
2.277 V

P3:mean(C1)
2.796 V

P4:sdev(C1)
2.277 V

P5:ampl(C2)
3.263 V

P6:freq(C2)

P7:---

P8:---

C1 D1
2.00 V
0 mV
-----20 mV

C2 D1
2.00 V
500 mV
-----520 mV

C3 D1
2.00 V
-300 mV
-----280 mV

C4 DC1M
2.00 V/div
-1.300 V ofst
-----1.28 V

F2 perhist...
200 m#
1.0 ms
0 #
-----598 m#

F3 perhist(C3)
200 m#/div
1.00 ms/div
0 #
-----598 m#

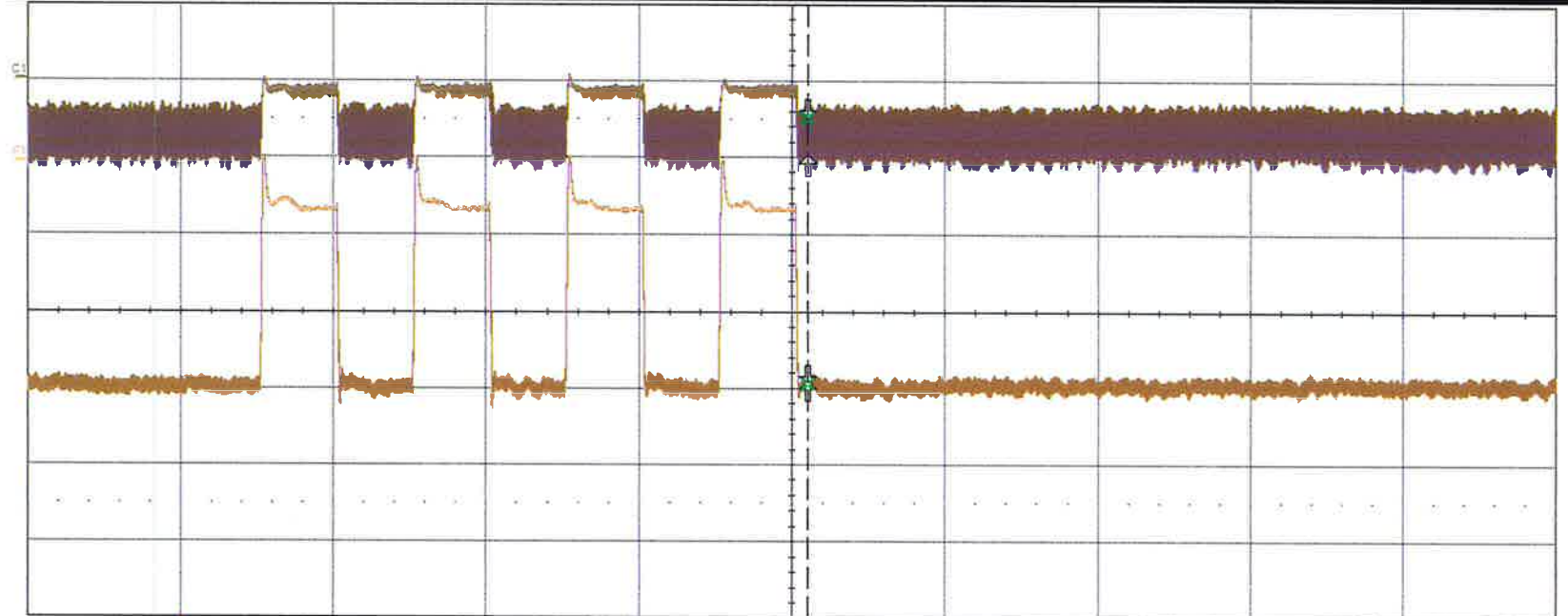
Tbase -3.00 ms
1.00 ms/div
1.00 MS 100 MS/s

Trigger C1 DC
Stop 3.34 V
Edge Positive

TELEDYNE LECROY

1/3/2023 11:19:53 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Support



Measure	P1:ampl(C1)	P2:ampl(C2)	P3:ms(C1)	P4:ms(C2)	P5:max(F1)	P6:min(F1)	P7:---	P8:---
value	1.144 V	2.256 V	1.380 V	605.1 mV	44.4 mV	-1.5940 V		
mean	1.14261 V	2.5195 V	1.378114 V	602.068 mV	44.4 mV	-1.5940 V		
min	1.107 V	2.056 V	1.363 V	593.8 mV	44.4 mV	-1.5940 V		
max	1.182 V	2.810 V	1.389 V	609.4 mV	44.4 mV	-1.5940 V		
sdev	17.57 mV	216.8 mV	5.806 mV	3.182 mV				
num	35	80	44	80	1	1		
status	✓	✗	✓	✓	✓	✓		

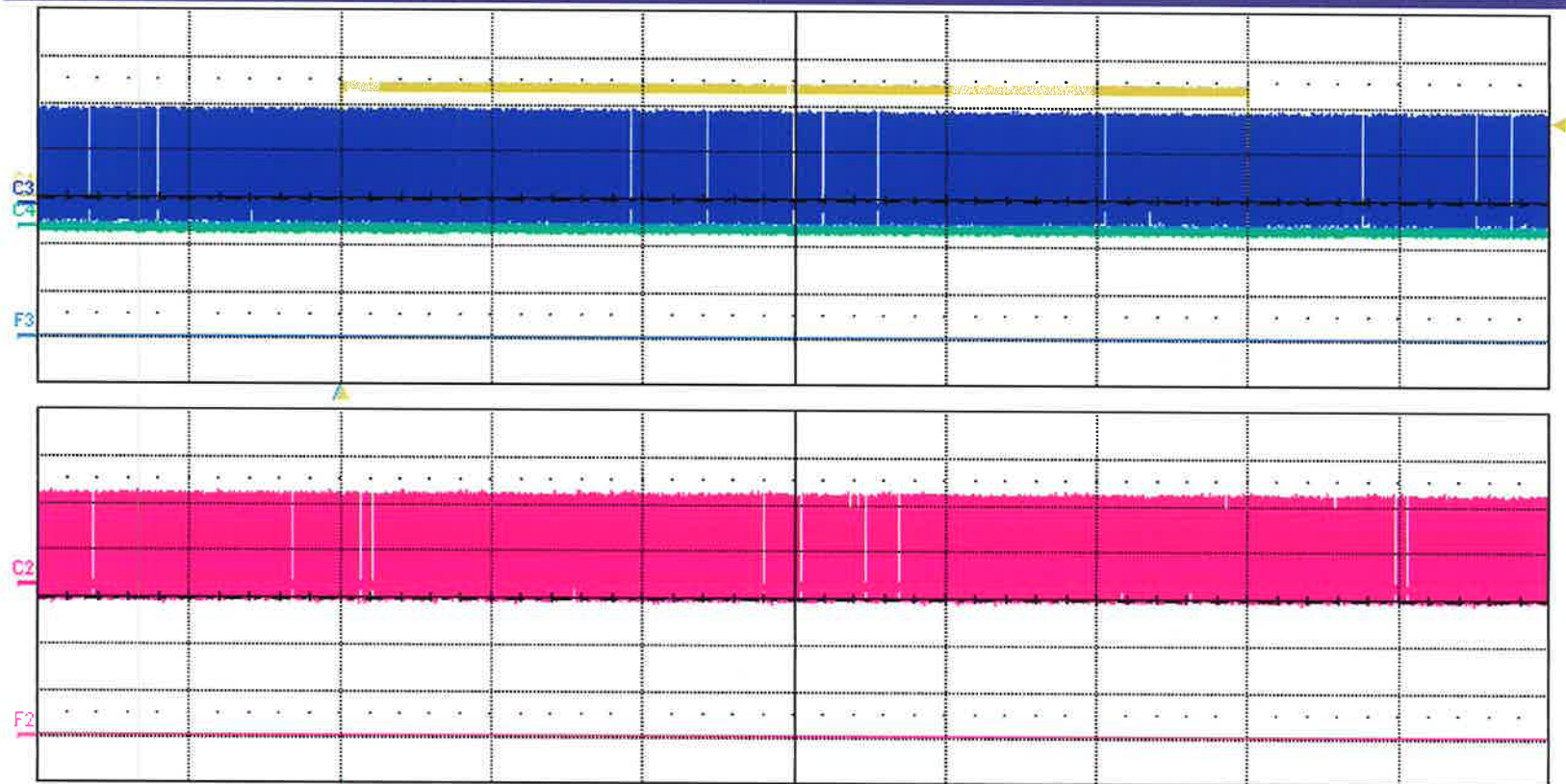
C1	F1
2.00 V/div	500 mV/div
6.0200 V	1.00 ms/div
	44 #
-1.0075 V	-1.43745 V
-1.5948 V	-1.42173 V
dy: -987.3 mV	dy: 15.73 mV

Tbase	-4.00 ms	Trigger	C1 DC
	1.00 ms/div	Norm	640 mV
1 MS	100 MSs	Edge	Negative
X1=	4.1000 ms	ΔX=	-20 ns
X2=	4.1000 ms	1/ΔX=	-50 MHz

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1/3/2023 11:12:35 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure
value
status

P1:mean(C1)
2.815 V

P2:sdev(C1)
2.301 V

P3:mean(C1)
2.815 V

P4:sdev(C1)
2.301 V

P5:ampl(C2)
3.274 V

P6:fwxx(C2)

P7:---

P8:---

C1 [D1]
2.00 V
0 mV
---- -20 mV

C2 [D1]
2.00 V
500 mV
---- -520 mV

C3 [D1]
2.00 V
-300 mV
---- 280 mV

C4 [DC1M]
2.00 V/div
-1.300 V ofst
---- 1.28 V

F2 perhis...
200 m#
1.0 ms
0 #
---- 598 m#

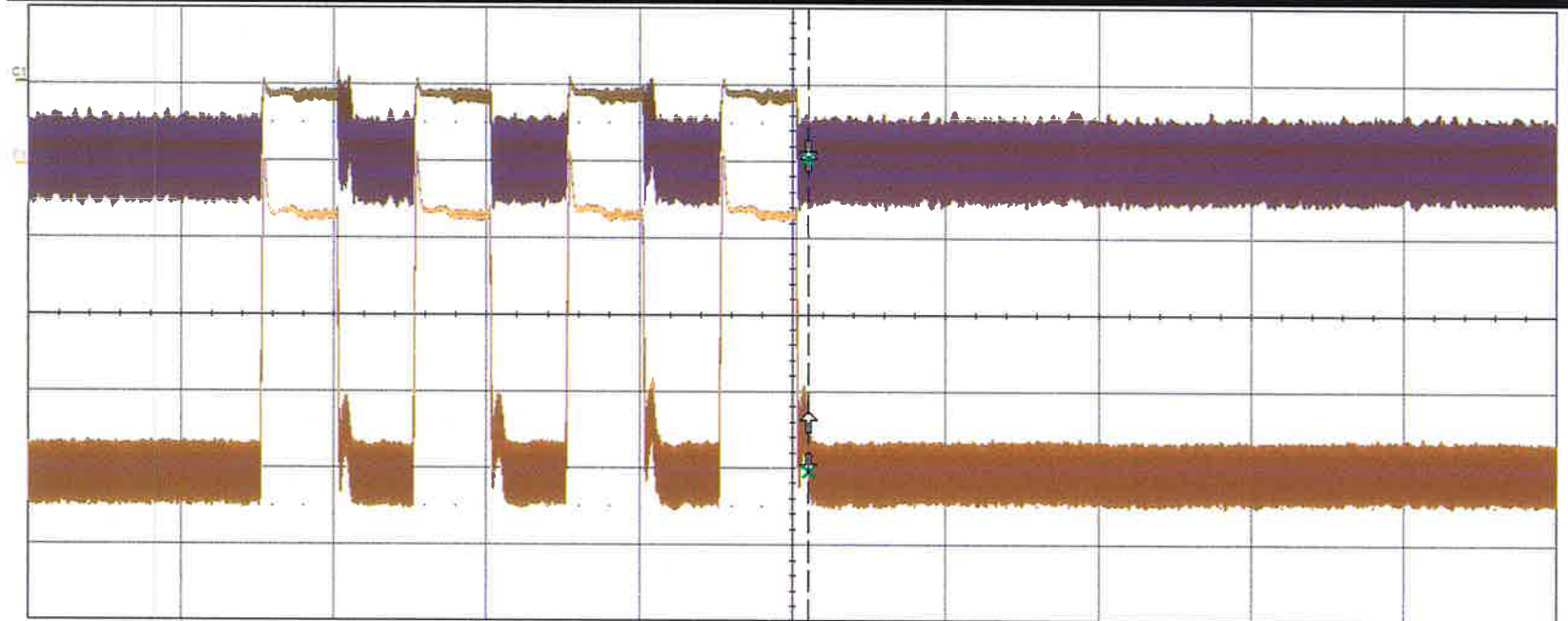
F3 perhist(C3)
200 m#/div
1.00 ms/div
0 #
---- 598 m#

Tbase -3.00 ms
1.00 ms/div
1.00 MS 100 MS/s
Trigger [C1] [DC]
Normal 3.34 V
Edge Positive

TELEDYNE LECROY

1/3/2023 11:20:49 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Support



Measure	P1:amp(C1)	P2:amp(C2)	P3:ms(C1)	P4:ms(C2)	P5:max(F1)	P6:min(F1)	P7:---	P8:---
value	2.712 V	3.664 V	1.906 V	909.5 mV	106.9 mV	-2.2386 V		
mean	2.4929 V	3.54777 V	1.903802 V	902.441 mV	106.9 mV	-2.2386 V		
min	1.699 V	3.068 V	1.894 V	895.9 mV	106.9 mV	-2.2386 V		
max	3.564 V	3.664 V	1.913 V	909.5 mV	106.9 mV	-2.2386 V		
sdev	424.7 mV	92.74 mV	4.671 mV	3.952 mV	---	---		
num	53	53	53	53	1	1		
status	✓	✗	✓	✓	✓	✓		

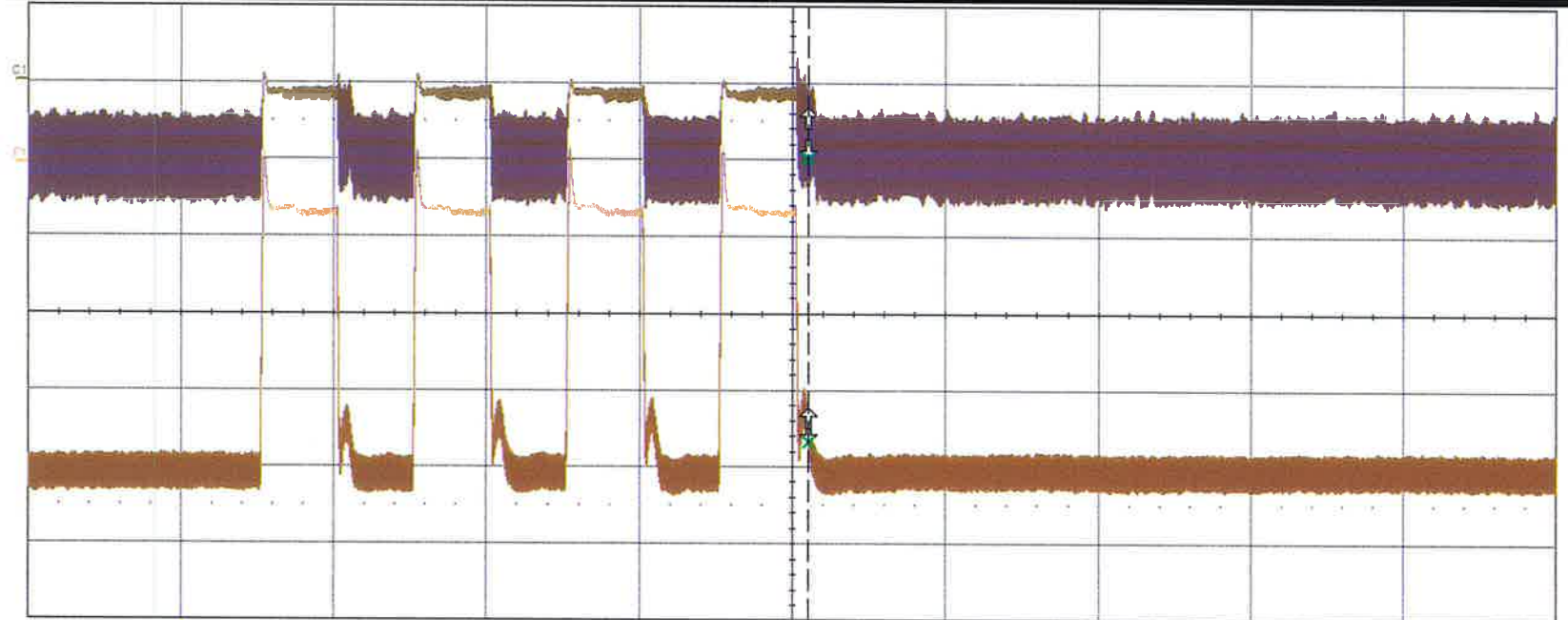
C1	DC1M	F1	<C1>
2.00 V/div	500 mV/div		
6.0200 V	1.00 ms/div		
	53 #		
-1.9048 V	-1.99404 V		
-1.7485 V	-1.60898 V		
Δy 2.16.3 mV	Δy 385.06 mV		

Tbase	-4.00 ms	Trigger	C4 DC
1 MS	1.00 ms/div	Norm	640 mV
	100 MS	Edge	Negative
X1=	4.1000 ms	ΔX=	-20 ns
X2=	4.1000 ms	1/ΔX=	-50 MHz

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File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Support



Measure	P1:amp(C1)	P2:amp(C2)	P3:rms(C1)	P4:rms(C2)	P5:max(F1)	P6:min(F1)	P7:---	P8:---
value	1.745 V	3.640 V	1.905 V	917.8 mV	112.7 mV	-2.1534 V		
mean	2.4821 V	3.57532 V	1.905089 V	906.989 mV	112.7 mV	-2.1534 V		
min	1.699 V	3.068 V	1.894 V	895.9 mV	112.7 mV	-2.1534 V		
max	3.700 V	3.684 V	1.918 V	917.8 mV	112.7 mV	-2.1534 V		
sdev	444.0 mV	82.72 mV	5.617 mV	5.804 mV				
num	100	100	100	100	1	1		
status	✓	✗	✓	✓	✓	✓		

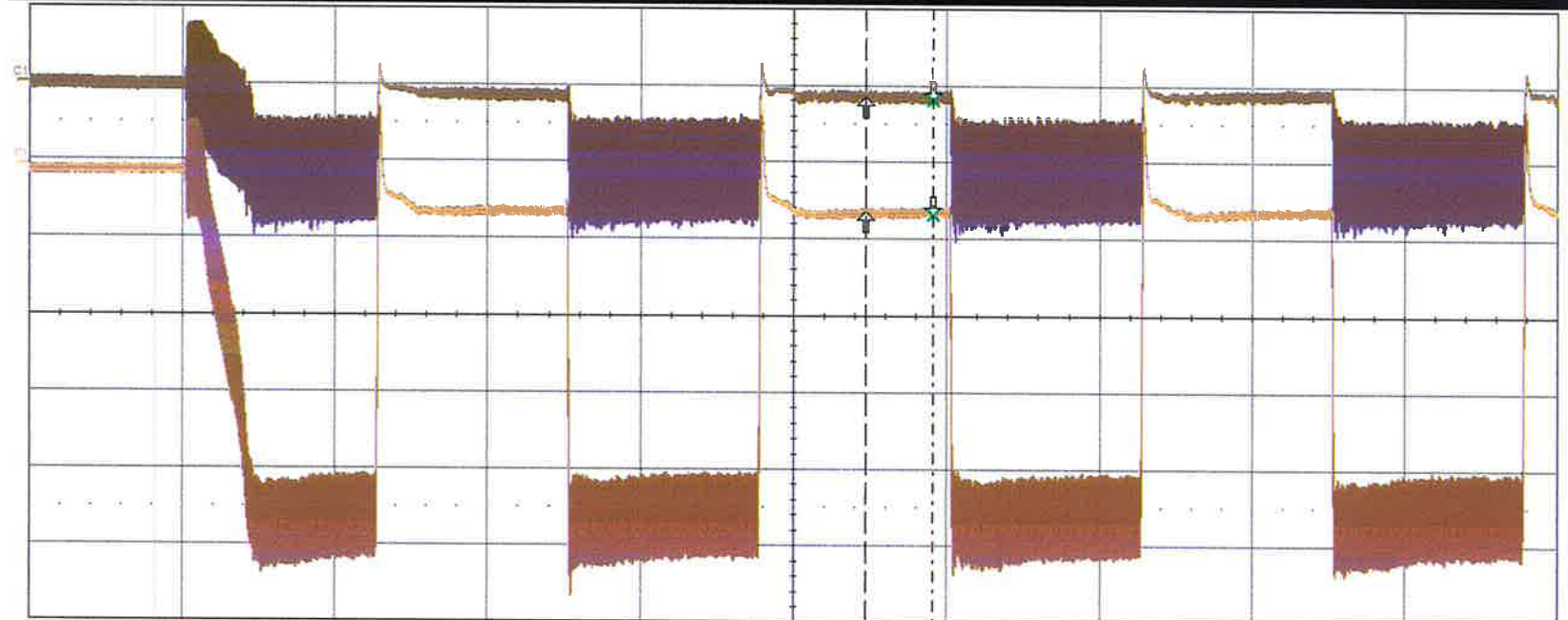
C1	DC1M	F1	<C1>
2.00 V/div	500 mV/div		
5.0200 V	1.00 ms/div		
	100 #		
-1.9975 V	-1.80344 V		
-7.16.0 mV	-1.59336 V		
dy 1.2815 V	dy 210.08 mV		

Tbase	-4.00 ms	Trigger	C4 DE
	1.00 ms/div	Norm	648 mV
1 MS	100 MS/s	Edge	Negative
X1=	4.1000 ms	ΔX=	-20 ns
X2=	4.1000 ms	1/ΔX=	-50 MHz

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1/3/2023 11:14:31 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Support



Measure	P1:amp(C1)	P2:amp(C2)	P3:rms(C1)	P4:rms(C2)	P5:max(F1)	P6:min(F1)	P7:---	P8:---
value	5.66 V	4.282 V	1.703 V	921.9 mV	401.1 mV	-2.8043 V		
mean	5.81325 V	> 4.29775 V	1.712357 V	923.594 mV	401.1 mV	-2.8043 V		
min	5.62 V	> 4.266 V	1.690 V	918.3 mV	401.1 mV	-2.8043 V		
max	6.00 V	> 4.328 V	1.738 V	927.6 mV	401.1 mV	-2.8043 V		
sdev	92.85 mV	> 16.13 mV	9.703 mV	2.348 mV				
num	32	32	32	11	1	1		
status	OK	OK	✓	✓	✓	✓		

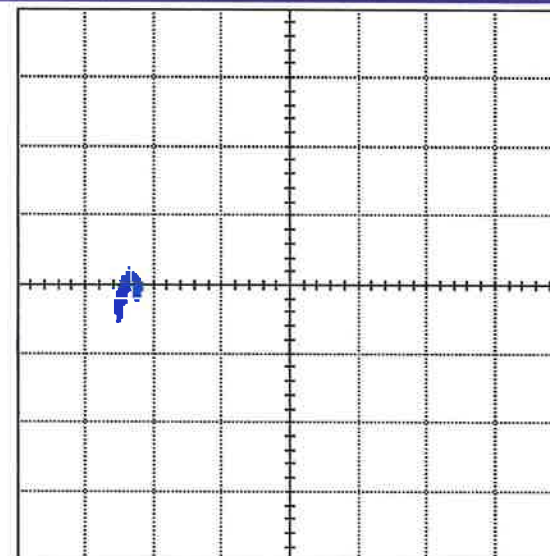
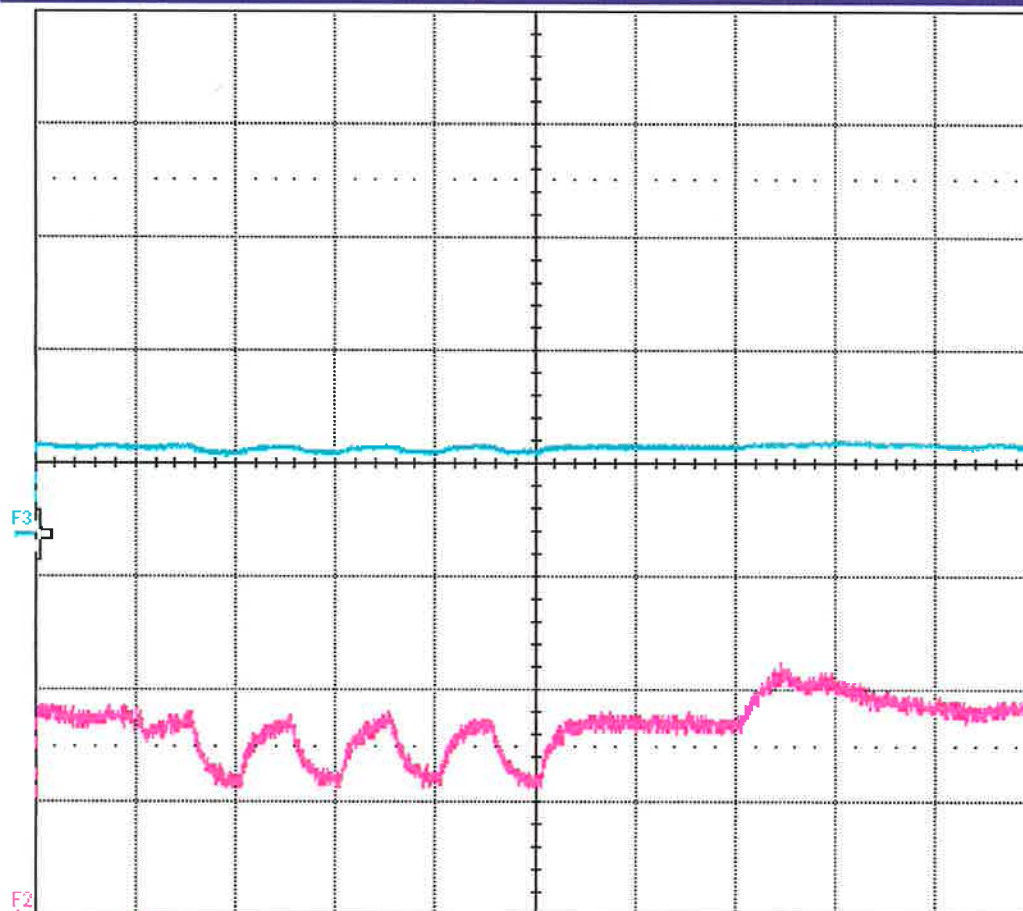
C1	F1	<C1>
2.00 V/div	500 mV/div	
6.0200 V	1.00 ms/div	
	32 #	
-421.8 mV	-312.87 mV	
-363.3 mV	-288.62 mV	
Δy 58.5 mV	Δy 14.25 mV	

Tbase -4.00 ms	Trigger C4 DC
1.00 ms/div	Norm 840 mV
1 MS	Edge Negative
X1= 4.9101 ms	ΔX= -435.51 μs
X2= 4.4746 ms	1/ΔX= -2.2962 kHz

Print Now

1/3/2023 11:40:33 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X = 0$ $\Delta Y * \Delta X = 0 V^2$
 0 dB Angle = 0 °
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY	XC2YC3
200e-3/div	2.00/div	2.00/div	200 mV/div	200 mV/div
1.00 ms/div	1.00 ms/div	1.00 ms/div	200 mV/div	200 mV/div
10 #				

LeCroy

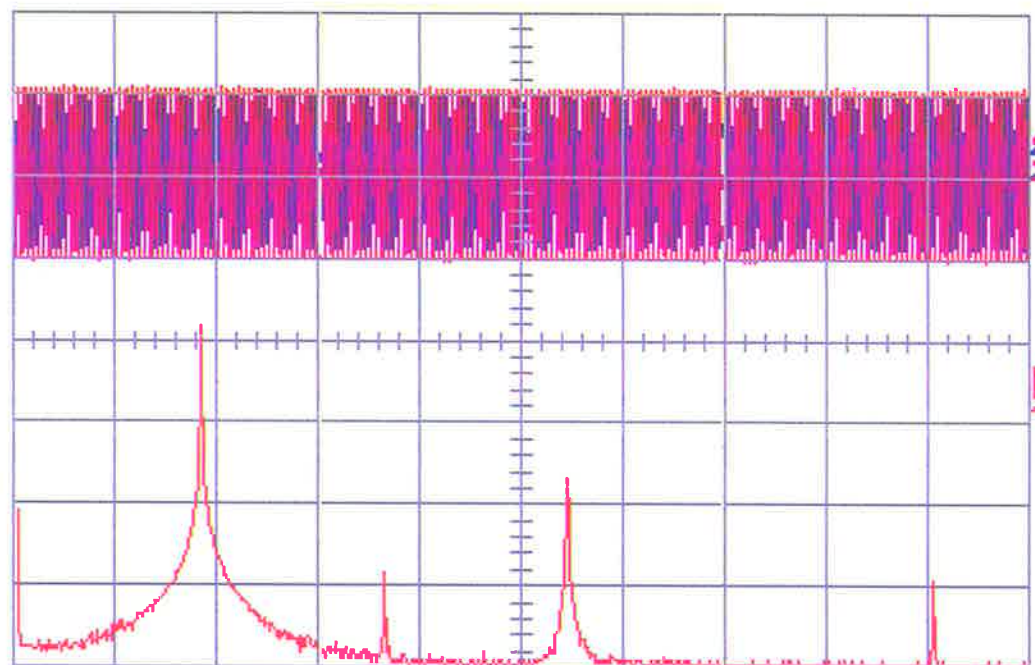
Tbase -3.98 ms Trigger Ext/10/DC
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

Processing ...

3-Jan-23
12:08:47

3
10 μ s
2.00 V

4
10 μ s
2.00 V
3: Average(A)
1 MHz
=15.0 dBm==



← 1.900 ms

	4 sweeps:	average	low	high	sigma
phase(4,3)		88.39 °	84.02	92.89	1.55
pkpk(3)		4.33 V	4.31	4.38	0.03
rms(2)		35.8mV	35.6	35.9	0.1
rms(4)		1.226 V	1.222	1.235	0.006
rms(3)		1.372 V	1.367	1.382	0.007

10 μ s

1	1	V	DC
2	.1	V	DC
3	2	V	DC
4	2	V	DC



Ext10 DC 0.15 V 50 Ω

1 GS/s

DISPLAY ☐ NORMAL

3-Jan-23
12:08:51

1
1 ms
0.50 V

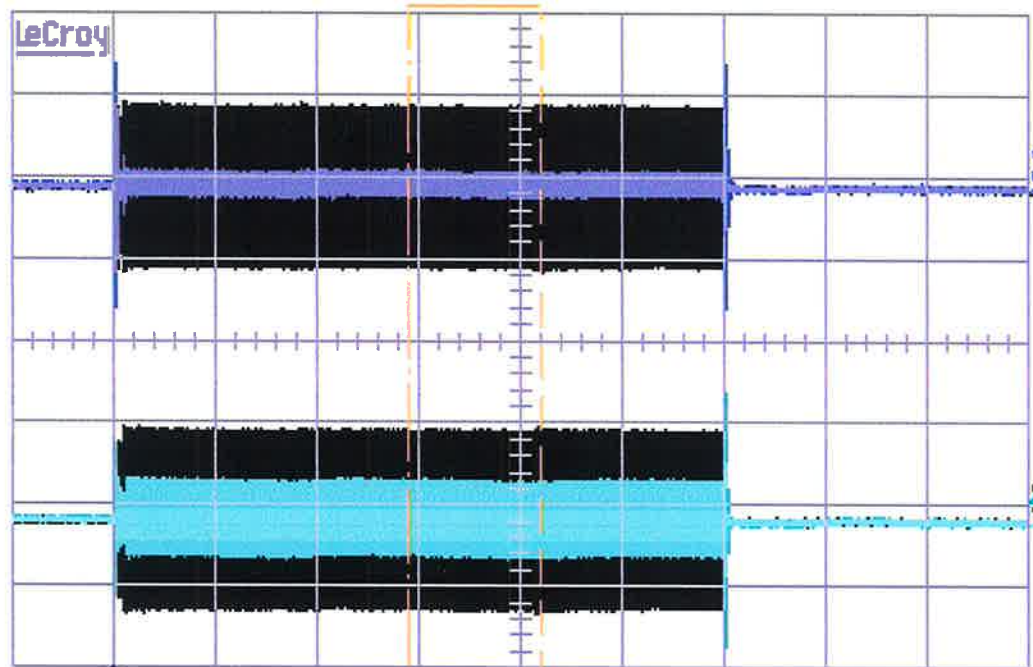
3
1 ms
0.50 V

4
1 ms
200mV

2
1 ms
200mV

1 ms

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



306 sweeps:

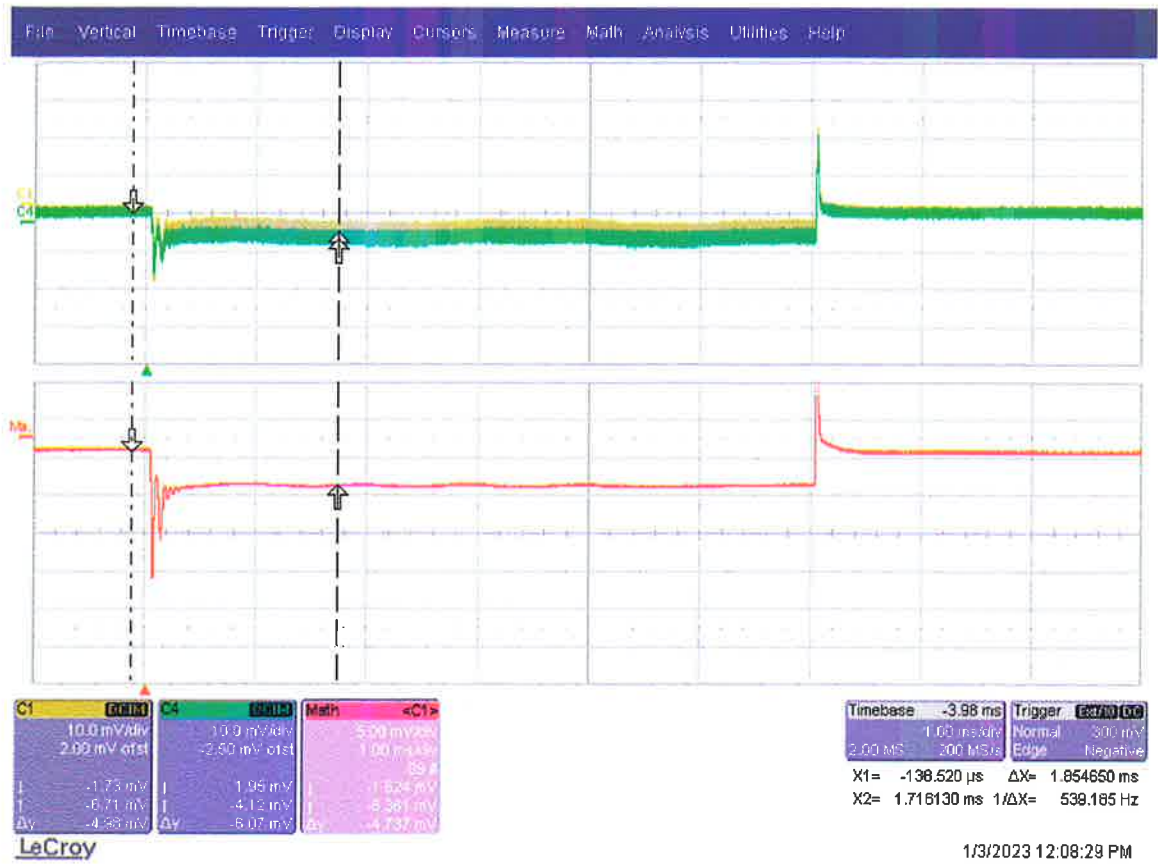
	average	low	high	sigma
rms(1)	343.8mV	335.9	348.2	3.2
rms(2)	24.8mV	20.8	28.9	2.1
rms(3)	377.6mV	370.7	381.1	2.9
rms(4)	65.8mV	64.4	66.7	0.5
phase(1,3)	85 °	79	92	2



Ext10 DC 0.50 V 50Ω

10 MS/s

☐ NORMAL



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3-Jan-23
12:13:18

1
1 ms
0.50 V

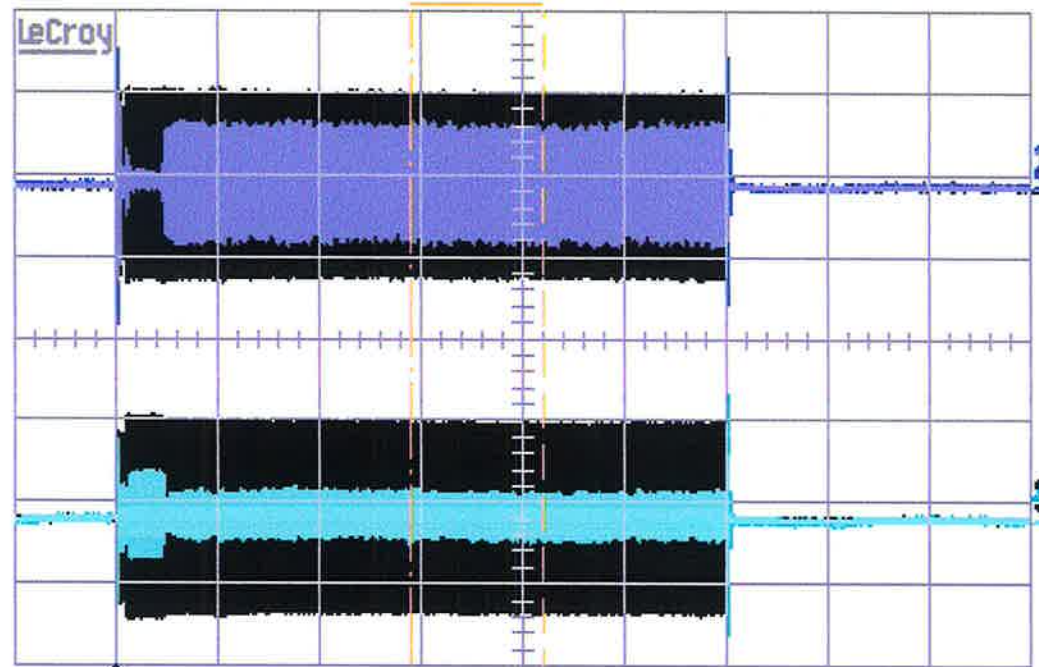
3
1 ms
0.50 V

4
1 ms
200 mV

2
1 ms
200 mV

1 ms

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



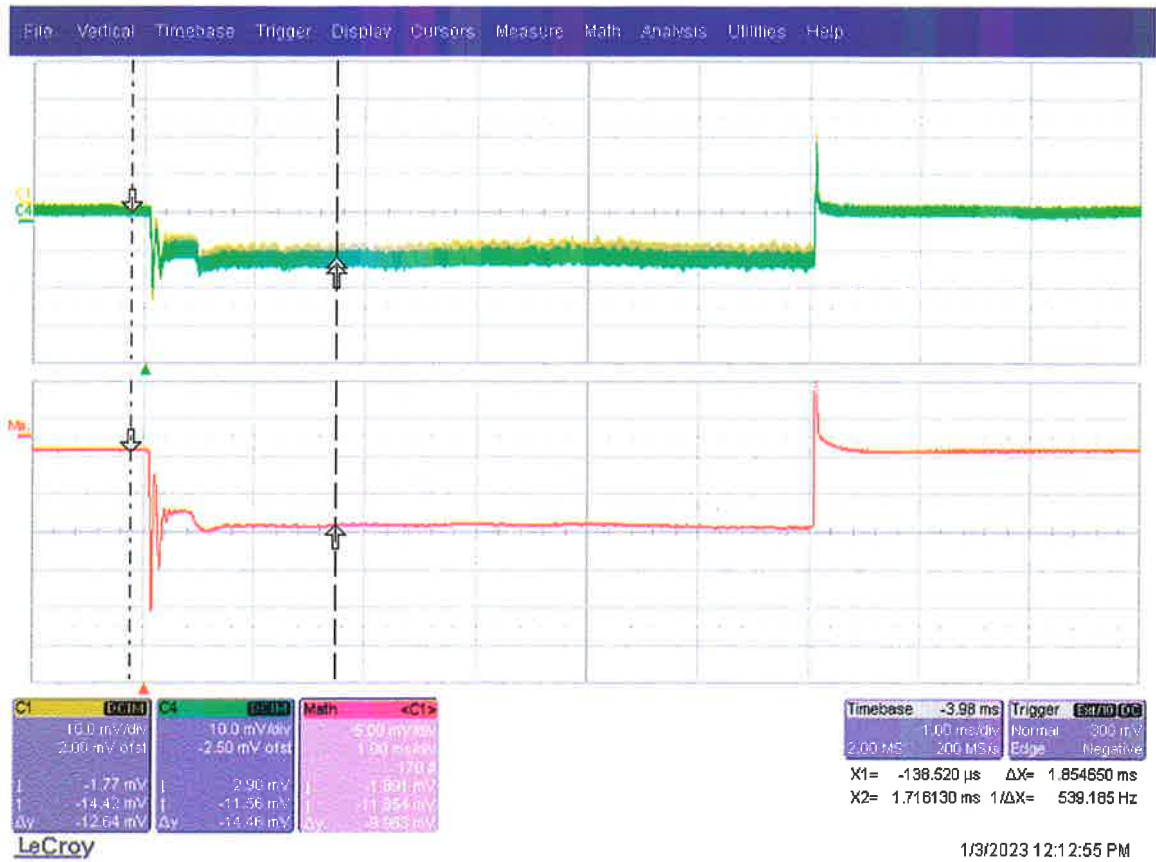
13 sweeps: average low high sigma
rms(1) 396.3 mV 391.8 399.3 2.8
rms(2) 94.7 mV 92.1 96.1 1.2
rms(3) 405.9 mV 401.9 408.5 2.5
rms(4) 36.5 mV 35.2 37.3 0.8
phase(1,3) 78 ° 74 83 2



Ext10 DC 0.50 V 50Ω

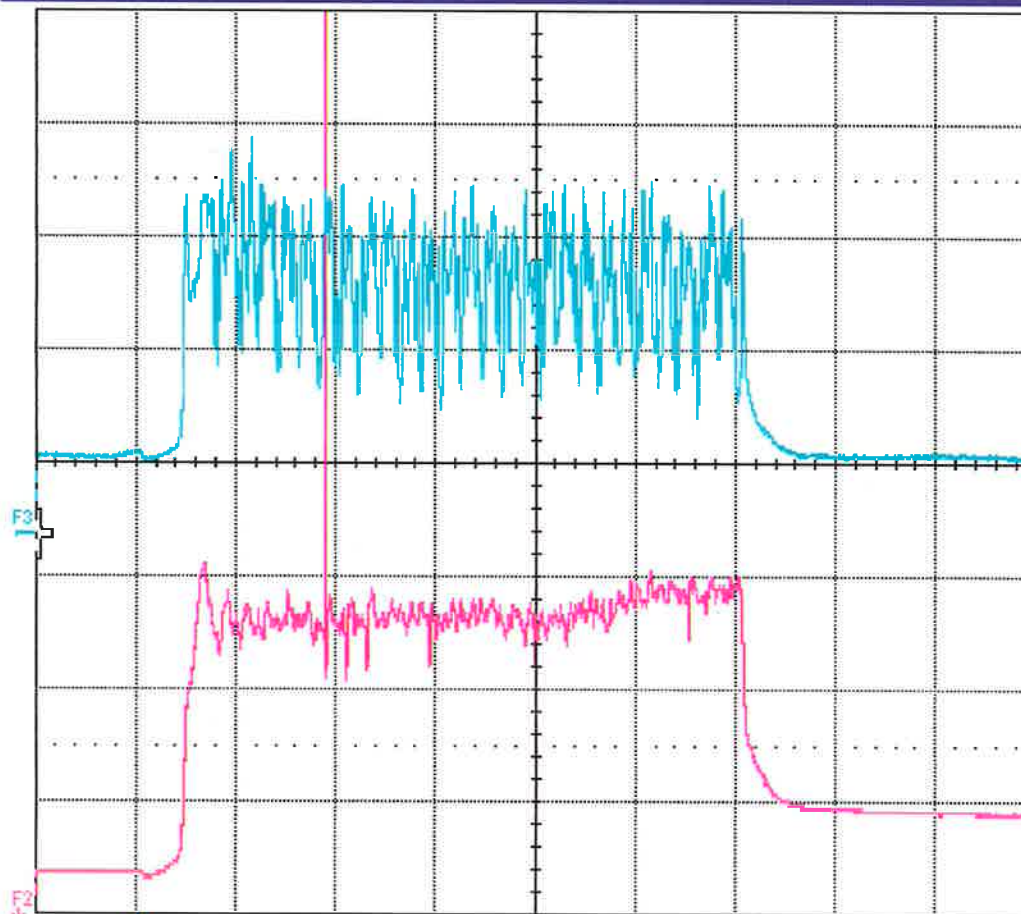
10 MS/s

☐ NORMAL



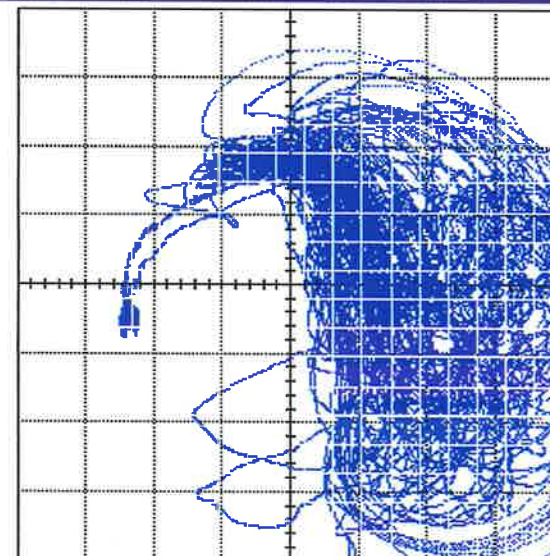
1/3/2023 12:12:55 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



F2	<F3>	F3 script(C3,C2)	XY	XC2Y:C3
1.00/div	2.00/div	200 mV/div		
1.00 ms/div	1.00 ms/div	200 mV/div		
102 #				

LeCroy



$\Delta Y/\Delta X = 0$ $\Delta Y * \Delta X = 0 V^2$
 0 dB Angle = 0 °
 Radius = 0 V

Tbase	-3.98 ms	Trigger	Ext/10 DC
	1.00 ms/div	Normal	130 mV
100 kS	10 MS/s	Edge	Negative
X1=	-1.0200 ms		

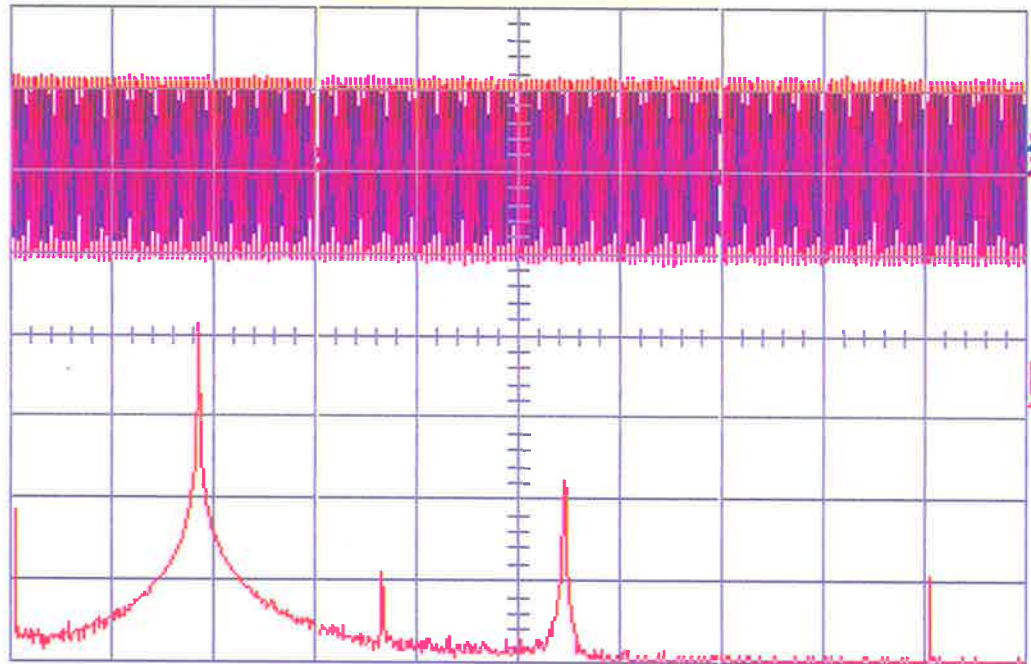
1/3/2023 12:13:28 PM

3-Jan-23
12:26:33

3
10 μ s
2.00 V

4
10 μ s
2.00 V

3: Average(4)
1 MHz
=15.0 dBm==



← 1.900 ms

	4 sweeps:	average	low	high	sigma
phase(4,3)		98.99 °	94.76	104.10	1.80
pkpk(3)		4.58 V	4.56	4.63	0.03
rms(2)		39.1mV	38.9	39.5	0.3
rms(4)		1.204 V	1.197	1.222	0.012
rms(3)		1.446 V	1.438	1.452	0.006

10 μ s

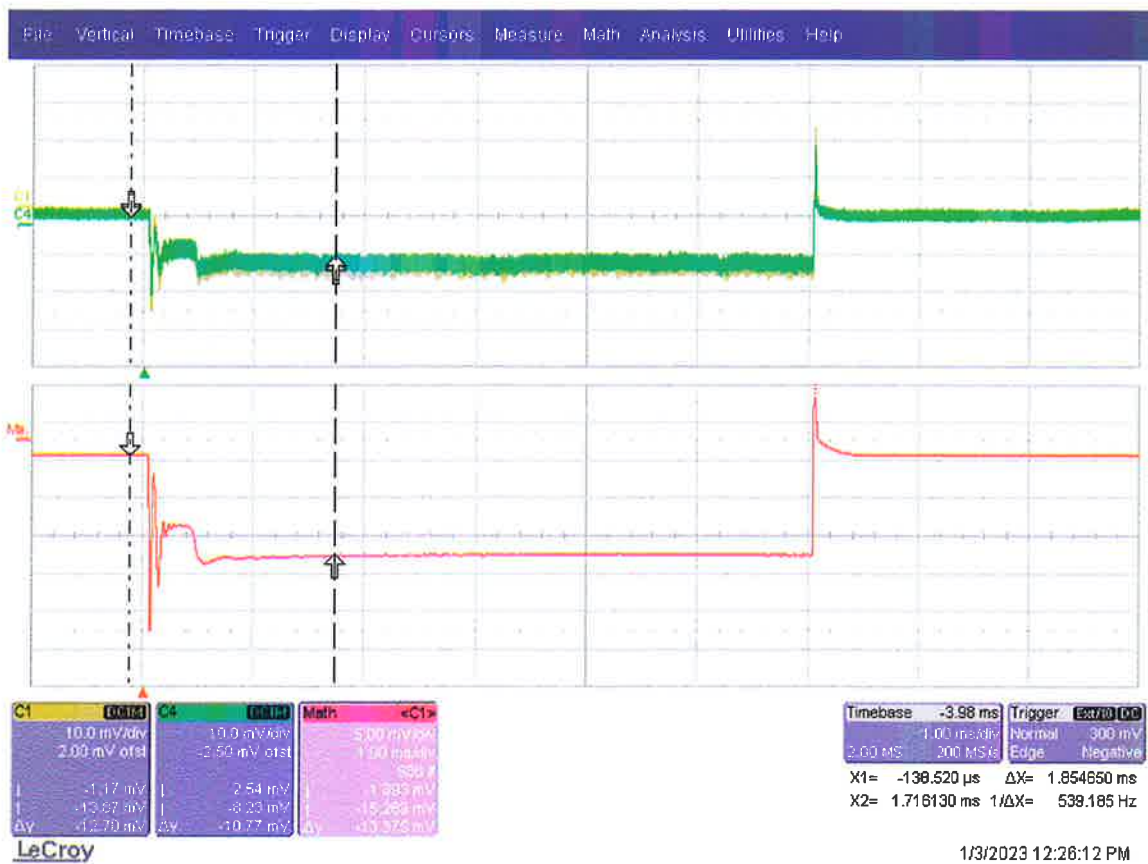
1 1 V DC
2 .1 V DC
3 2 V DC
4 2 V DC



Ext10 DC 0.15 V 50 Ω

1 GS/s

DISPLAY ☐ NORMAL



1/3/2023 12:26:12 PM

3-Jan-23
12:26:36

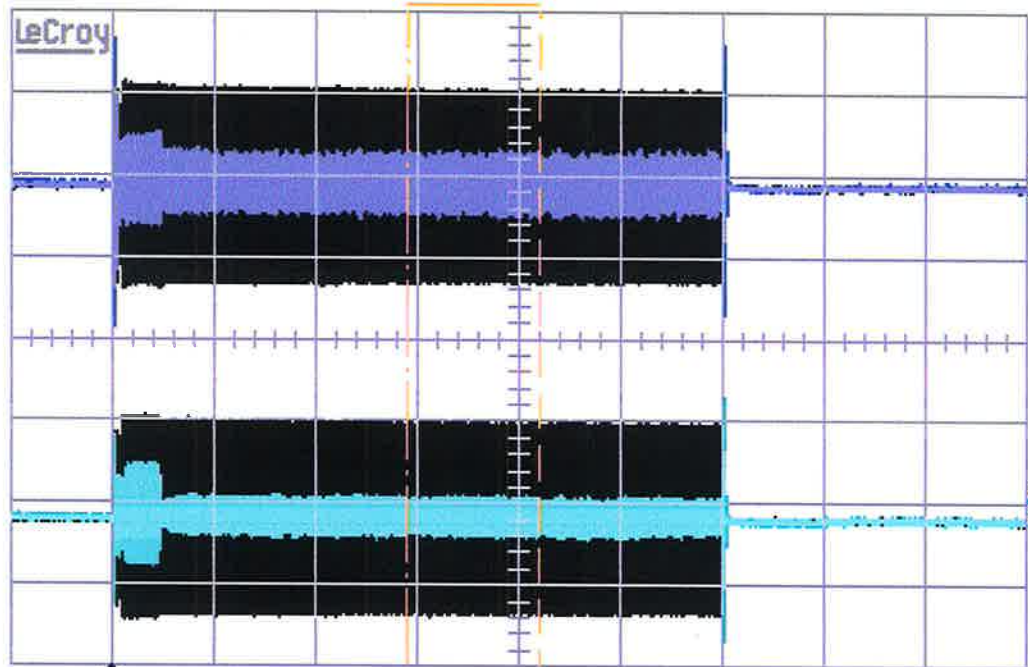
1
1 ms
0.50 V

3
1 ms
0.50 V

4
1 ms
200mV

2
1 ms
200mV

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



203 sweeps: average low high sigma
rms(1) 408.5mV 402.3 412.1 2.6
rms(2) 49.4mV 47.0 51.8 1.0
rms(3) 403.8mV 399.1 406.7 2.1
rms(4) 30.1mV 27.5 31.7 0.7
phase(1,3) 79 ° 74 85 2



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
Fixed ☒ variable

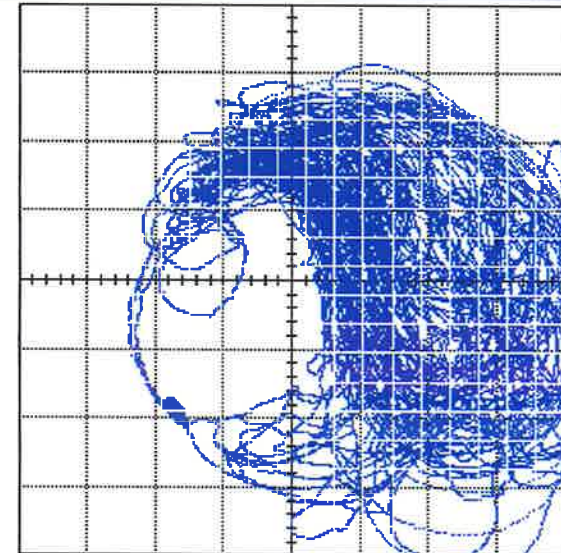
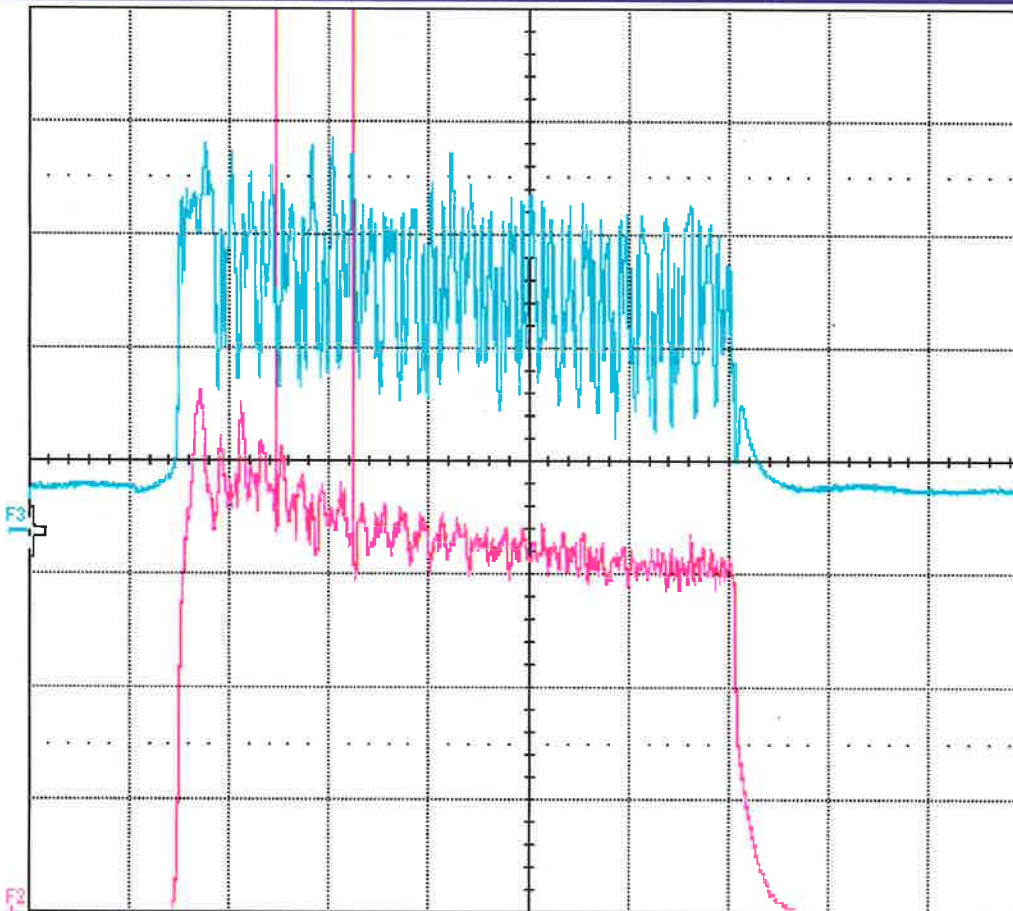
Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

10 MS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



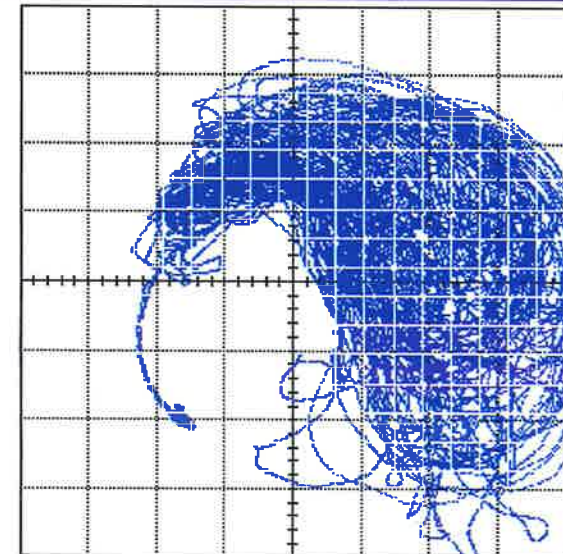
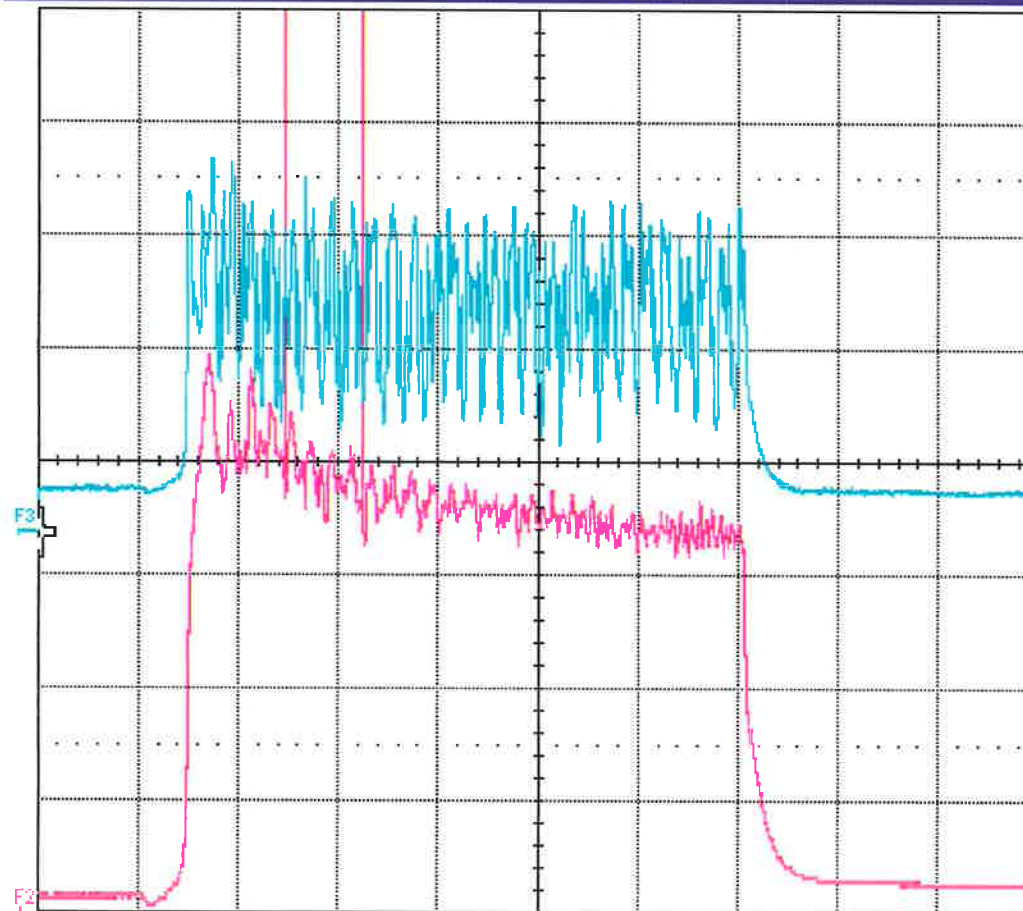
$\Delta Y/\Delta X = 0$ $\Delta Y * \Delta X = 0 \text{ V}^2$
 0 dB Angle = 0°
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY	X: C2 Y: C3
1.00/div		2.00/div		200 mV/div
1.00 ms/div		1.00 ms/div		200 mV/div
130 #				

Tbase -3.98 ms Trigger Ext/10 DC
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

LeCroy

1/3/2023 12:26:29 PM

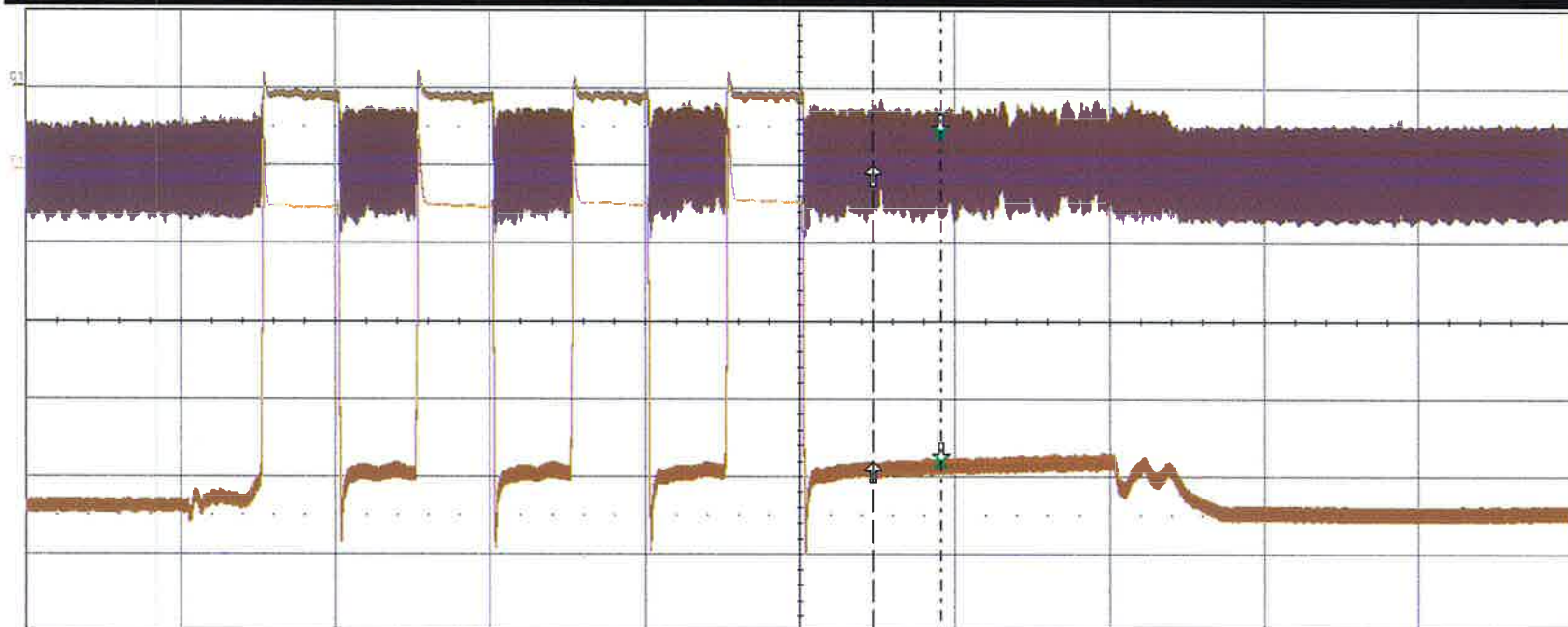


$\Delta Y/\Delta X =$ 0 $\Delta Y * \Delta X =$ 0 V²
 0 dB Angle = 0 °
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY	X:C2 Y:C3
1.00/div	2.00/div	200 mV/div		
1.00 ms/div	1.00 ms/div	200 mV/div		
132 #				

Tbase -3.98 ms Trigger **Ext/10 DC**
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Support



Measure	P1:amp(C1)	P2:amp(C2)	P3:rms(C1)	P4:rms(C2)	P5:max(F1)	P6:min(F1)	P7:---	P8:---
value	1.993 V	3.800 V	2.001 V	1.0334 V	284.1 mV	-2.4609 V		
mean	2.4747 V	3.83197 V	1.99667 V	1.033812 V	284.1 mV	-2.4609 V		
min	1.735 V	3.346 V	1.969 V	981.2 mV	284.1 mV	-2.4609 V		
max	4.144 V	3.990 V	2.082 V	1.0449 V	284.1 mV	-2.4609 V		
sdev	457.8 mV	57.33 mV	15.95 mV	7.681 mV				
num	915	915	915	915	1	1		
status	✓	✗	✓	✓	✓	✓		

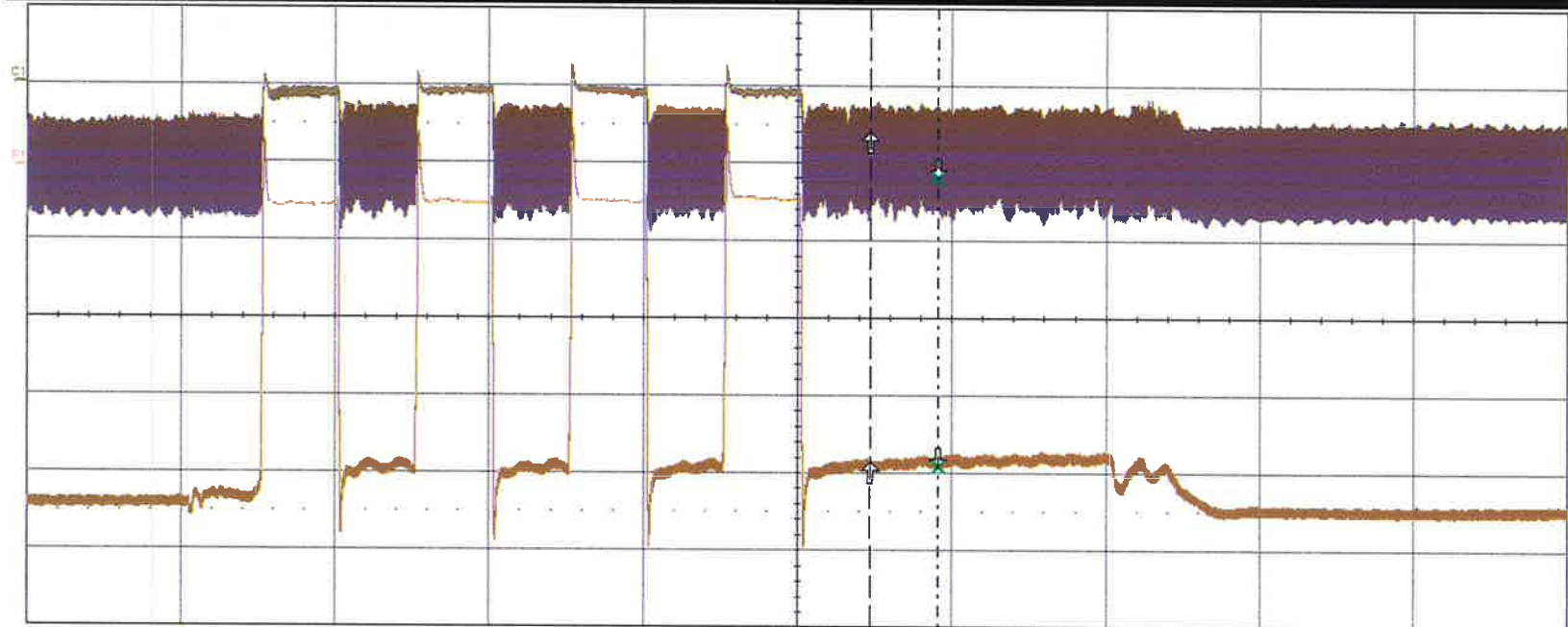
C1	F1	<C1>
2.00 V/div	500 mV/div	
6.0200 V	1.00 ms/div	
	915 #	
-1.1805 V	-1.87310 V	
-2.0375 V	-1.88288 V	
-857.0 mV	-9.78 mV	

Tbase	-4.00 ms	Trigger	C4 DC
1.00 ms/div	1.00 ms/div	Norm	840 mV
1 MS	100 MS/s	Edge	Negative
X1=	4.9101 ms	ΔX=	-435.51 μs
X2=	4.4746 ms	1/ΔX=	-2.2962 kHz

Print Now

1/3/2023 12:29:41 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Support



Measure	P1:amp(C1)	P2:amp(C2)	P3:ms(C1)	P4:ms(C2)	P5:max(F1)	P6:min(F1)	P7:---	P8:---
value	2.939 V	3.826 V	2.008 V	1.0417 V	280.8 mV	-2.4445 V		
mean	2.5864 V	3.84740 V	2.00057 V	1.035334 V	280.8 mV	-2.4445 V		
min	1.809 V	3.720 V	1.978 V	1.0101 V	280.8 mV	-2.4445 V		
max	5.072 V	3.984 V	2.078 V	1.0447 V	280.8 mV	-2.4445 V		
sdev	479.0 mV	42.73 mV	14.44 mV	5.213 mV	—	—		
num	456	456	456	456	1	1		
status	✓	✗	✓	✓	✓	✓		

C1	DCM	F1	<C1>
2.90 V/div	500 mV/div		
6.0200 V	1.00 ms/div		
	456 #		
-2.4105 V	-1.92354 V		
-1.2828 V	-1.90447 V		
dy 1.3477 V	dy 19.07 mV		

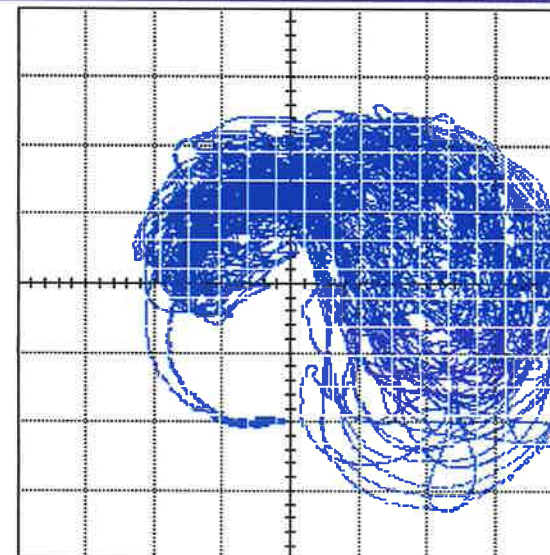
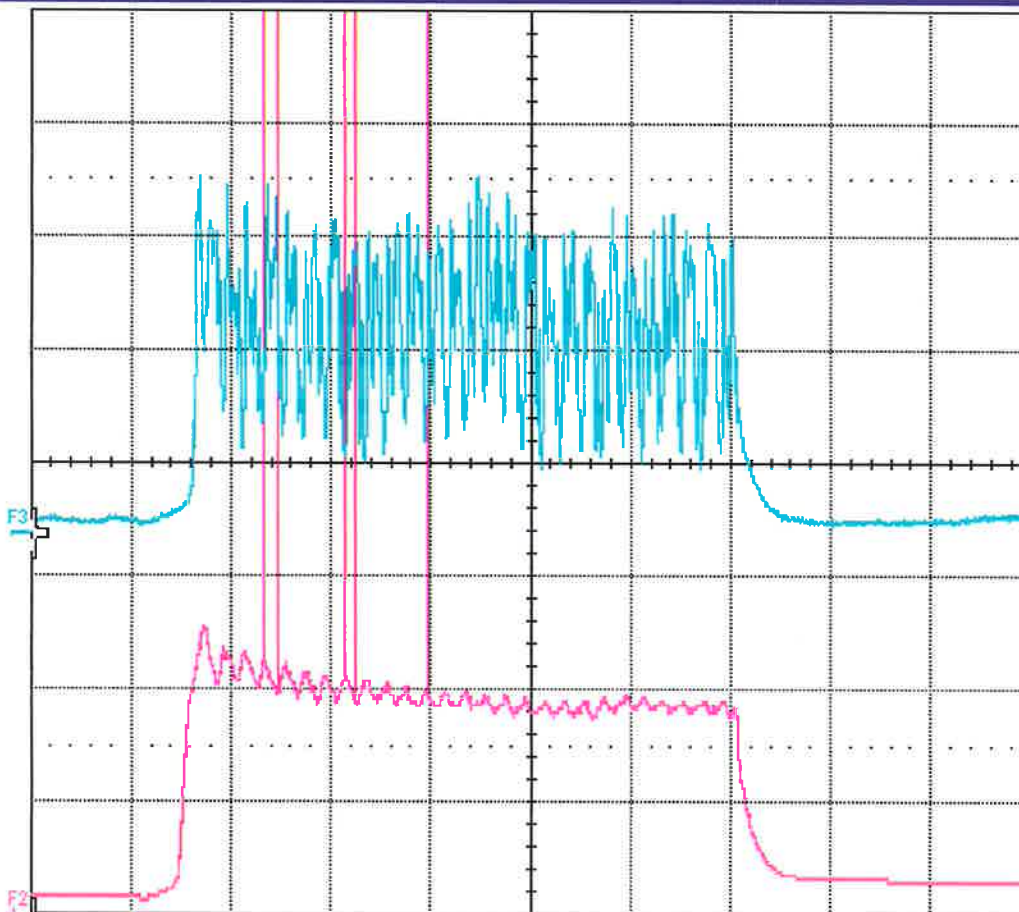
Tbase -4.00 ms	Trigger C1 DC
1 MS 1.00 ms/div	Norm 540 mV
1 MS 100 MS/s	Edge Negative

X1= 4.9101 ms ΔX= -435.51 μs
X2= 4.4746 ms 1/ΔX= -2.2962 kHz

Print Now

1/3/2023 12:45:08 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X = 0$ $\Delta Y * \Delta X = 0 \text{ V}^2$
 0 dB Angle = 0°
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY	X: C2 Y: C3
2.00/div	2.00/div	2.00/div		200 mV/div
1.00 ms/div	1.00 ms/div	1.00 ms/div		200 mV/div
796 #				

Tbase -3.98 ms Trigger Ext/10 DC
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

LeCroy

1/3/2023 12:48:44 PM