

Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
value	-60 mV	375 mV	2.8 V	-11 mV	-177.4 V	
mean	-58.83 mV	368.4 mV	2.991 V	-4.4 mV	-177.864 V	
min	-67 mV	375 mV	2.8 V	-48 mV	-184.3 V	
max	-52 mV	406 mV	3.1 V	49 mV	-171.6 V	
sdev	4.21 mV	15.5 mV	155 mV	27.2 mV	4.204 V	
num	7	7	7	7	7	
status	✓	✓	✓	✓	✓	

C1

DCIM

500 mV/div

-230 mV ofst

-417 mV

-96 mV

319 mV

Δy

C2

DCIM

1.00 V/div

-1.840 V ofst

-53 mV

59 mV

112 mV

Δy

C4

DCIM

100 V/div

299.0 V ofst

-377.1 V

-128.9 V

247.2 V

Δy

Timebase

-4.00 ms

1.00 ms/div

100 MS/s

X1= 7.13021 ms

X2= 1.64617 ms

ΔX= -5.48404 ms

1/ΔX= -182.3473 Hz

Trigger

Normal

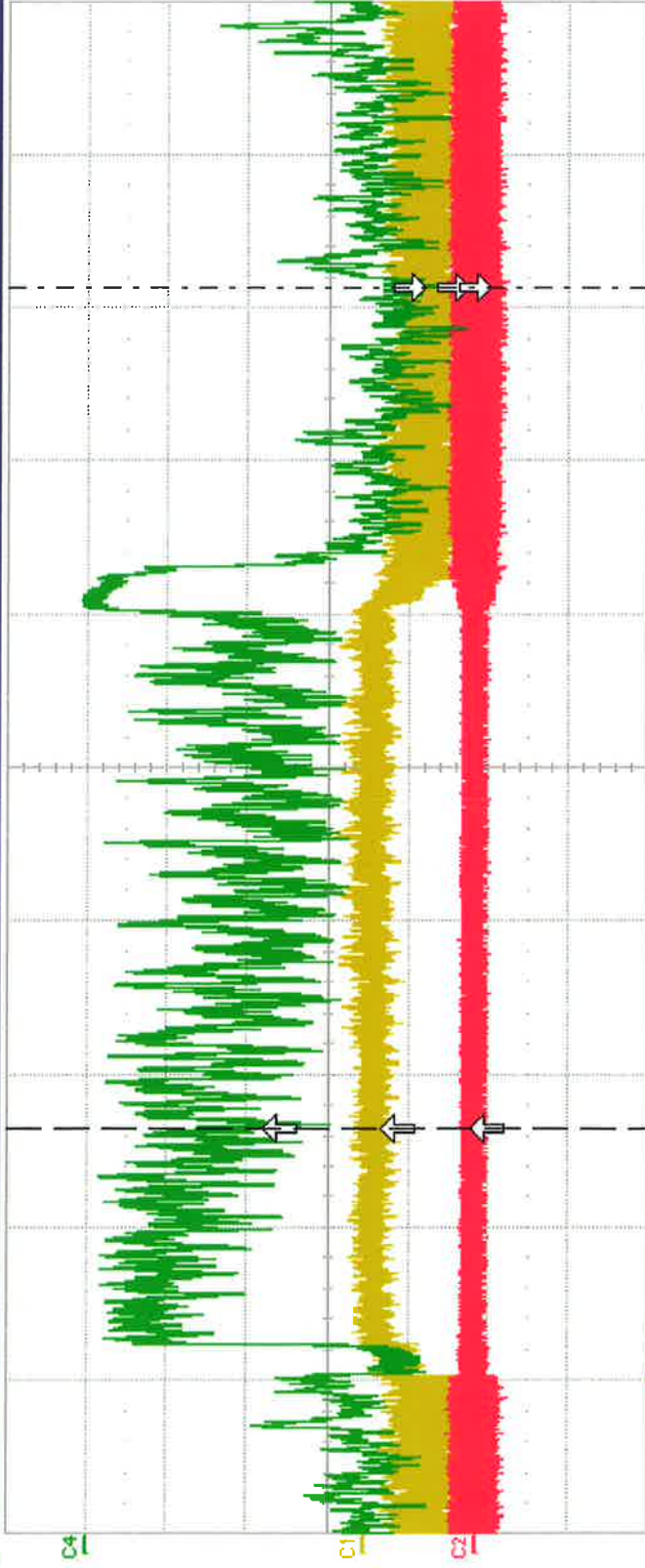
Edge

Ex7/0 DC

Negative

2/3/2020 1:53:54 PM

LeCroy



Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
value	-48 mV	406 mV	3.1 V	-35 mV	-194.9 V	
mean	-56.19 mV	398.4 mV	3.072 V	-17.2 mV	-186.919 V	
min	-67 mV	375 mV	2.8 V	-73 mV	-200.4 V	
max	-48 mV	438 mV	3.4 V	49 mV	-171.6 V	
sdev	3.25 mV	19.6 mV	143 mV	21.6 mV	6.681 V	
num	88	88	88	88	88	
status	✓	✓	✓	✓	✓	

C1

500 mV/div

230 mV orst

-534 mV

-109 mV

524 mV

Δv

C2

1.00 V/div

-1.840 V orst

-155 mV

32 mV

188 mV

Δv

C4

100 V/div

239.0 V offset

-416.0 V

-220.9 V

195.1 V

Δv

Timebase

-4.00 ms

1.00 ms/div

1.00 MS

Trigger

Normal

Edge

Est/IO

DC

200 mV

Negative

X1=

7.13021 ms

ΔX=

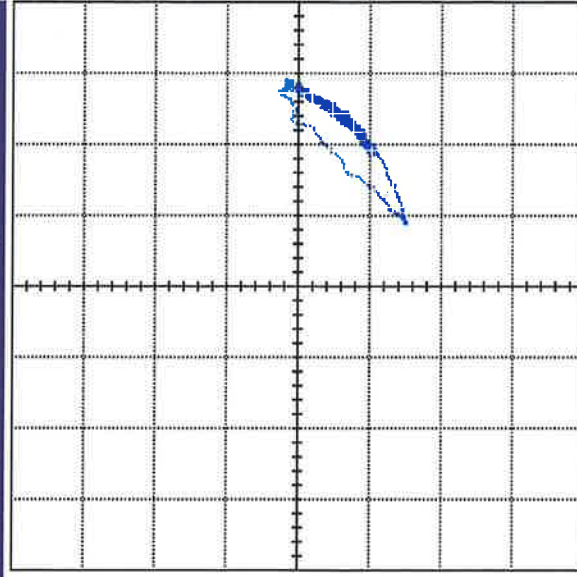
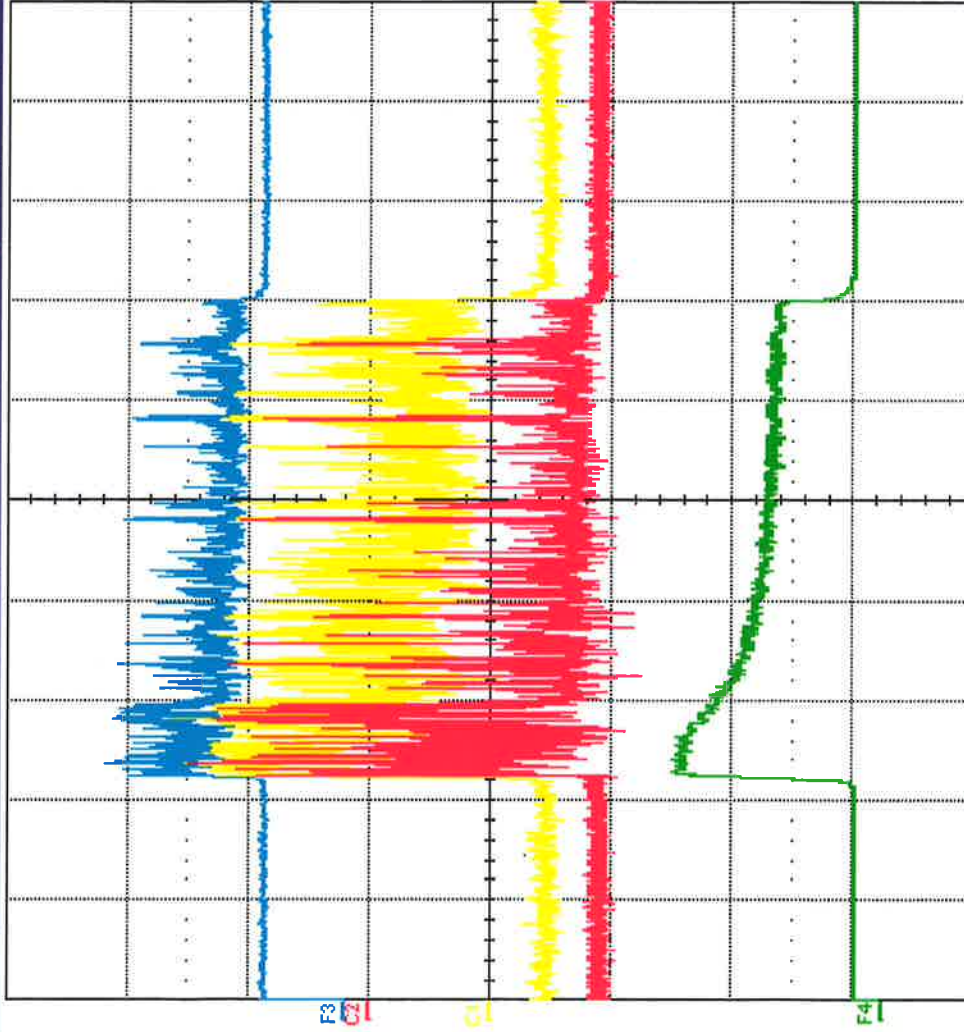
-5.48404 ms

X2=

1.64617 ms

1/ΔX=

-182.3473 Hz



C1 **FLI** **DC1M**
200 mV/div
0.0 mV offset

C2 **DC1M**
200 mV/div
198.0 mV

F3 **script(C1,C2)**
2.00/div
1.00 ms/div

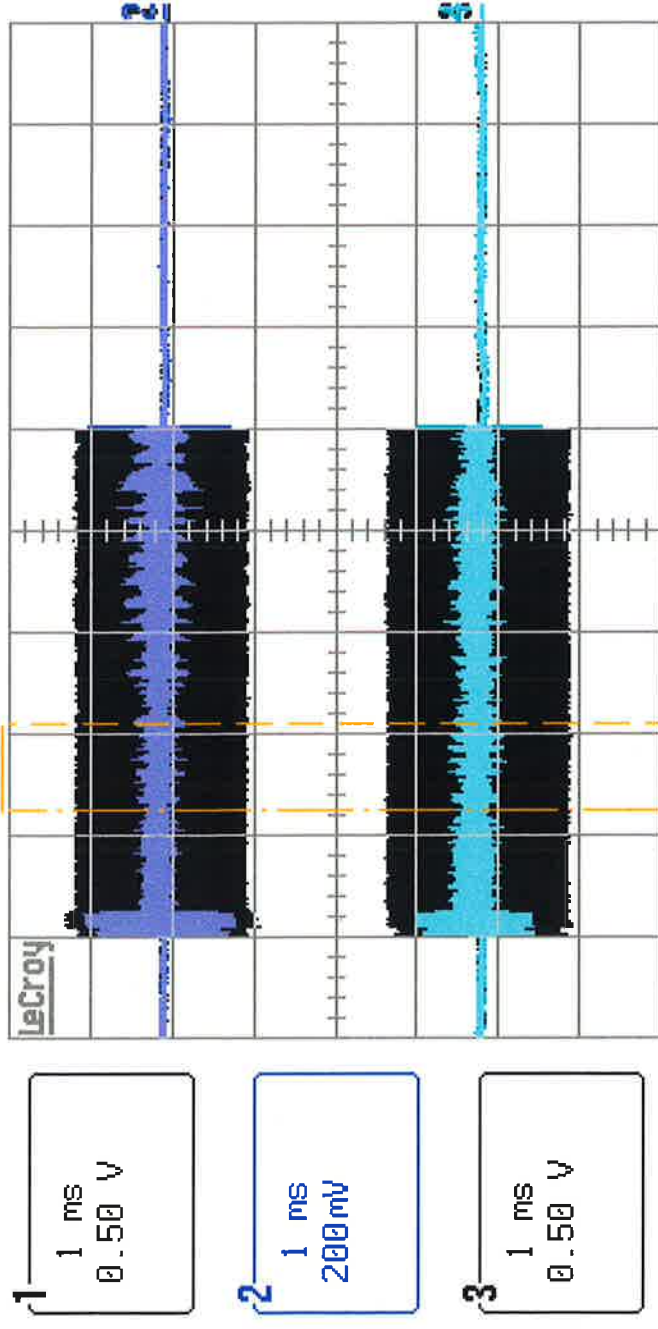
F4 **<F3>**
1.00/div
1.00 ms/div

XY **XF1 YF2**
200 mV/div
200 mV/div

Thase **-3.04 ms**
1.00 ms/div
10.0 kS

Trigger **C4 DC**
Normal 200 mV
Edge Negative

3-Feb-20
13:57:37



141 sweeps:

	average	low	high	sigma
rms(1)	361.8mV	356.5	368.0	2.3
rms(2)	23.8mV	19.2	31.0	2.2
rms(3)	382.1mV	378.6	386.7	1.7
rms(4)	27.1mV	21.5	34.9	2.7
phase(1,3)	-7°	-145	84	89

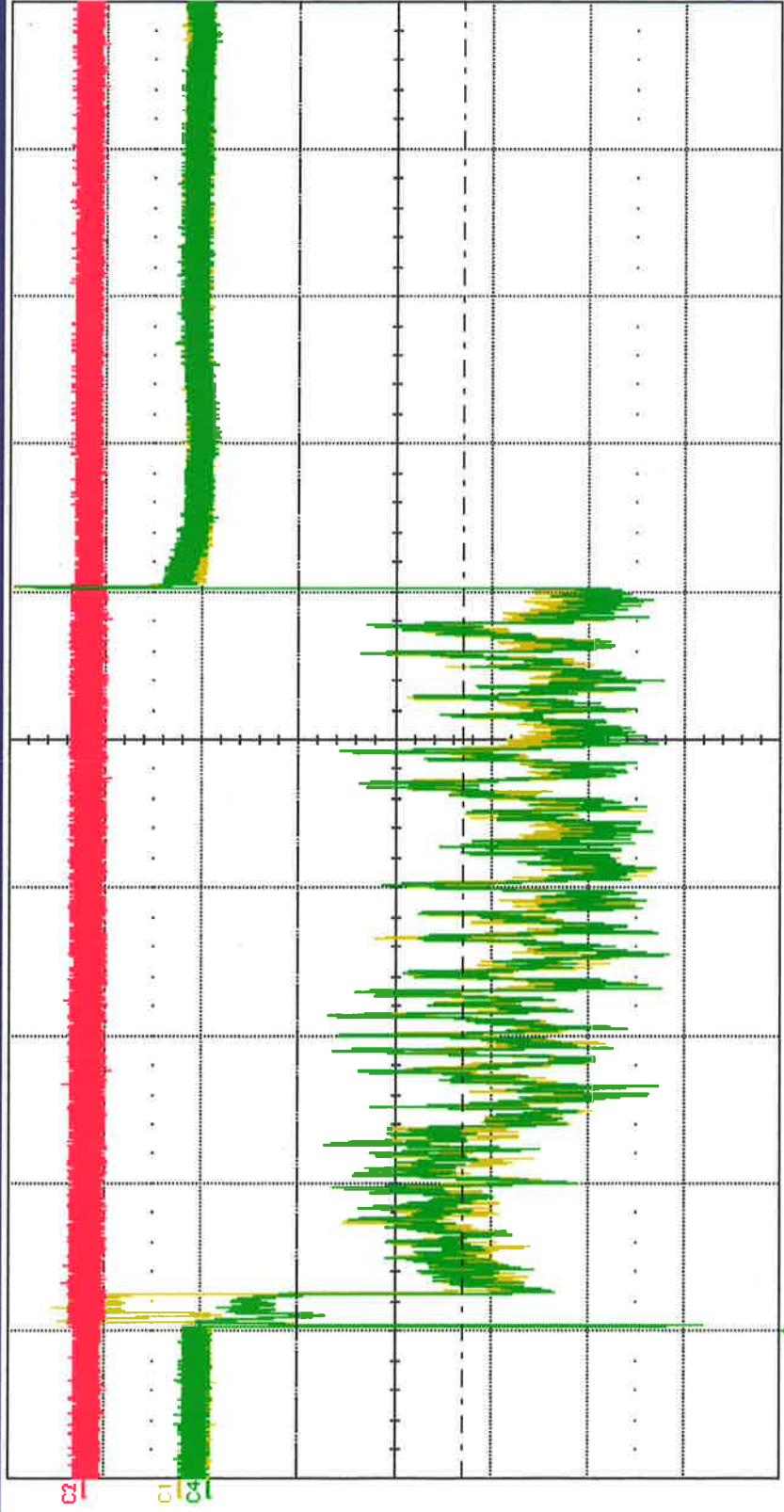
1 ms

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

10 MS/s

Ext10 DC 0.15 V 50Ω

☐ NORMAL



Measure
value
status

C1

20.0 mV/div

44.00 mV offset

-38.0 mV

-24.0 mV

34.0 mV

Δy

C2

2.00 V/div

6.400 V offset

-7.80 V

-4.40 V

3.40 V

Δy

C4

20.0 mV/div

38.00 mV offset

-52.0 mV

-18.0 mV

34.0 mV

Δy

P1:mean(Z1)
-65.68 mV ✓

P2:mean(Z4)
-61.83 mV ✓

P3:mean(C1)
-74.08 mV ✓

P4:mean(C4)
-69.84 mV ✓

P5:phase(C1,C4)
-15.0933508025 °

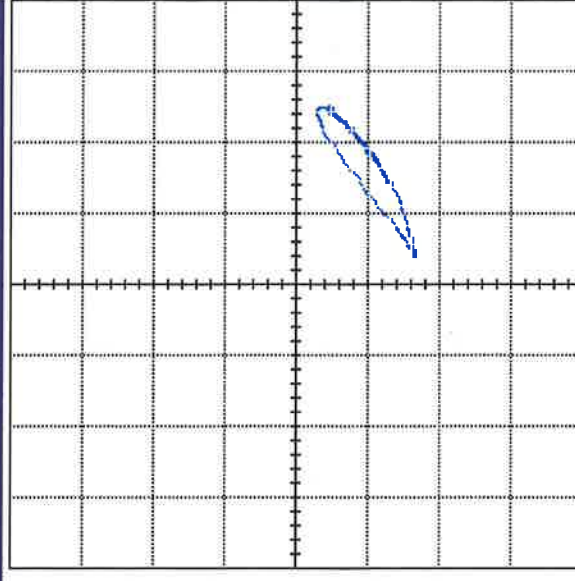
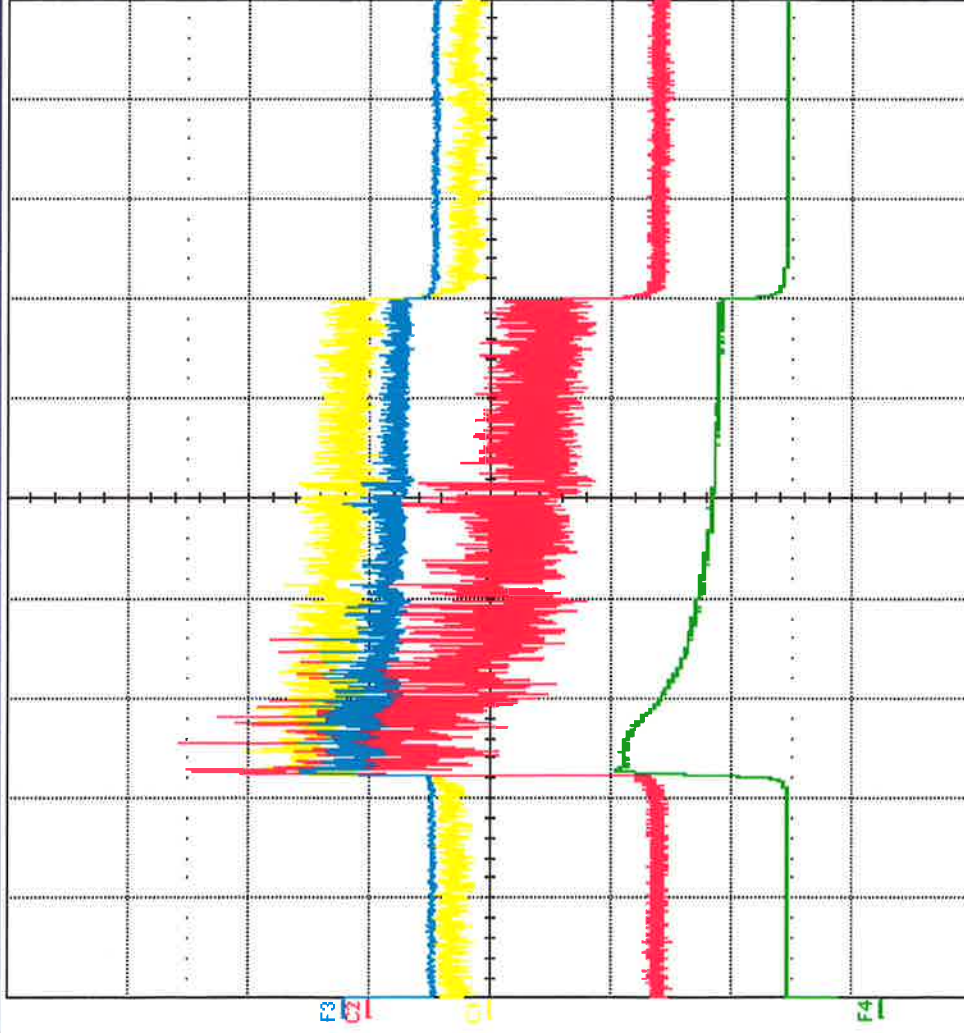
P6:---

Timebase
-4.00 ms
1.00 ms/div
1.00 mS
100 MS/s

Trigger
Edge
Normal
Edge
Burst
Burst

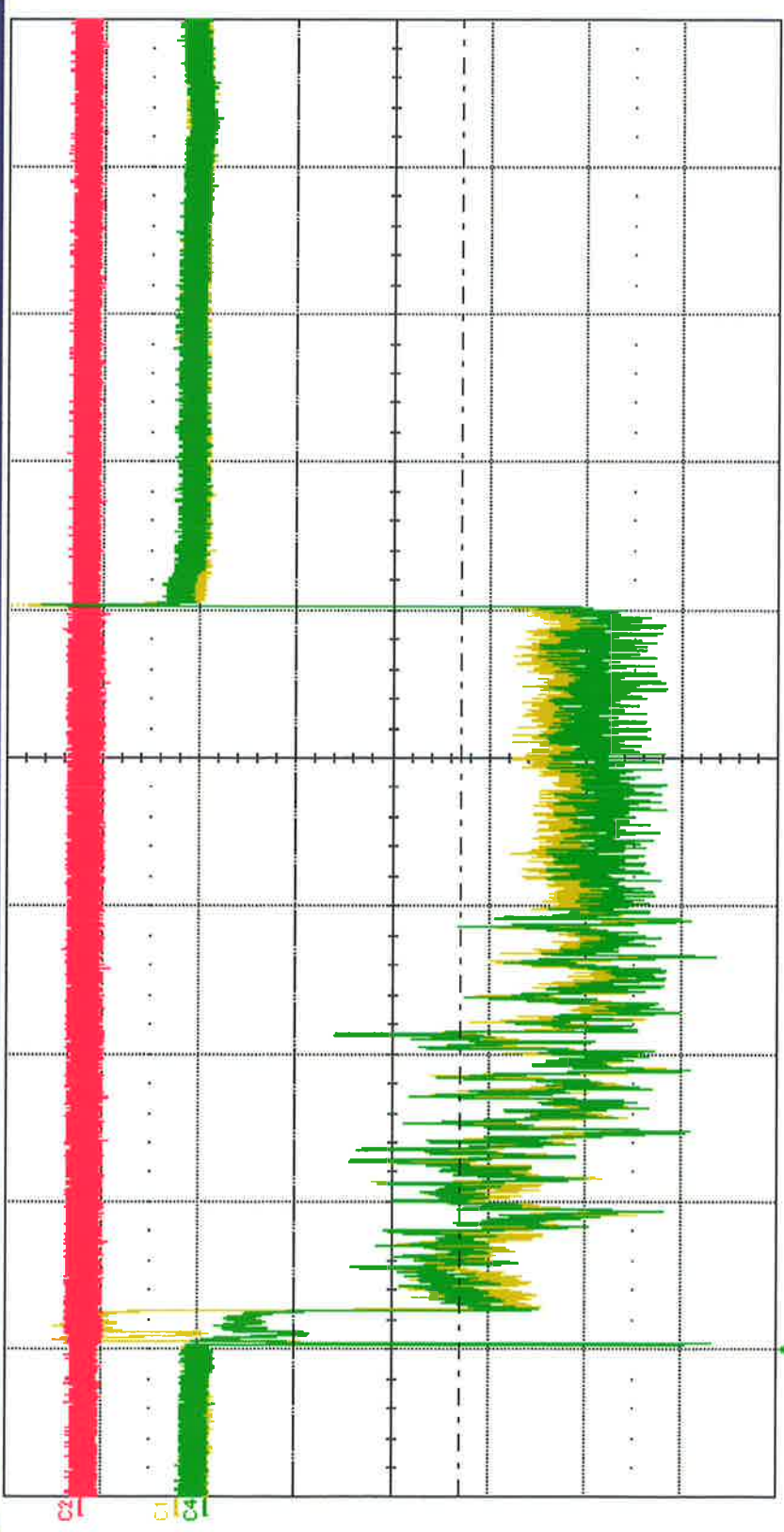
200 mV

Negative



C1	FLI DCIM	200 mV/div	0.0 mV ofst
C2	DCIM	200 mV/div	198.0 mV
F3	script(C1,C2)	2.00/div	1.00 ms/div
F4	=F3=	1.00/div	1.00 ms/div
XV	XFLYF2	200 mV/div	200 mV/div
		1.609 k#	1.609 k#

Tbase	-3.04 ms	Trigger	C4 DC
	1.00 ms/div	Normal	200 mV
10.0 kS	1.0 MS/s	Edge	Negative



Measure

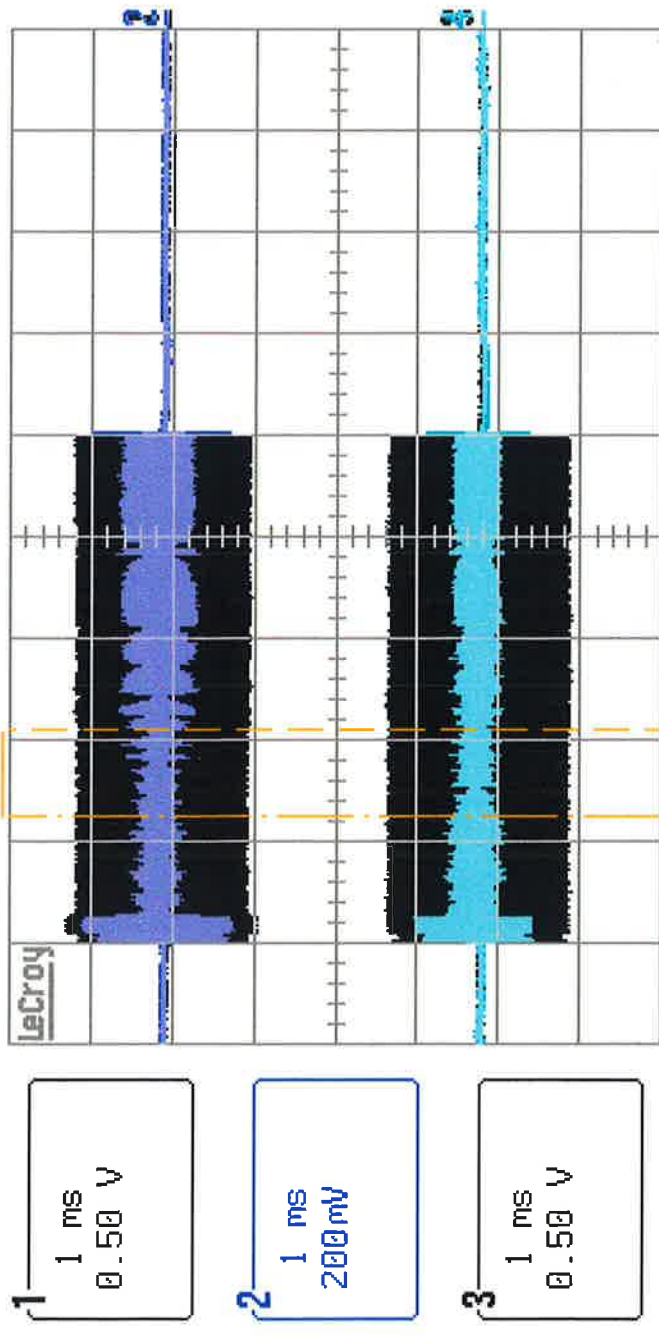
value	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
C1	20.0 mV/div	20.0 mV/div	20.0 mV/div	20.0 mV/div	20.0 mV/div	20.0 mV/div
C2	44.0 mV/div	38.0 mV/div	38.0 mV/div	38.0 mV/div	38.0 mV/div	38.0 mV/div
C3	58.0 mV	52.0 mV	52.0 mV	52.0 mV	52.0 mV	52.0 mV
C4	24.0 mV	18.0 mV	18.0 mV	18.0 mV	18.0 mV	18.0 mV
Δx	34.0 mV	34.0 mV	34.0 mV	34.0 mV	34.0 mV	34.0 mV
Δy	3.40 V	3.40 V	3.40 V	3.40 V	3.40 V	3.40 V

Timebase -4.00 ms 1.00 ms/div 100 MS/s

Trigger Normal Edge Negative

Ext'd DC

3-Feb-20
14:22:06



1	1 ms 0.50 V
2	1 ms 200 mV
3	1 ms 0.50 V
4	1 ms 200 mV

414 sweeps:

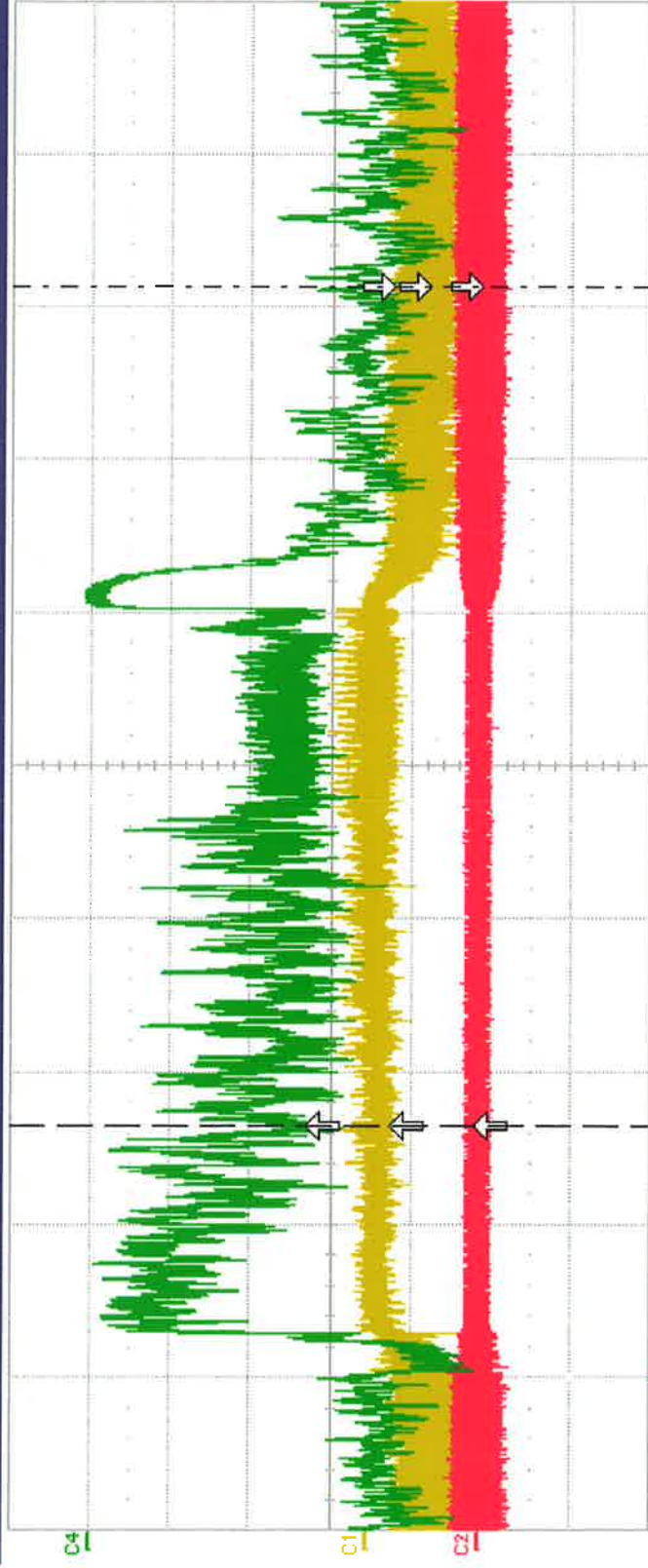
rms(1)	average	low	high	sigma
rms(2)	368.1 mV	364.1	372.8	1.8
rms(3)	28.9 mV	23.5	35.4	1.9
rms(4)	384.7 mV	381.9	387.6	1.4
phase(1,3)	25.6 mV	19.9	34.2	2.1
	-8 °	-146	93	89

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

Ext10 DC 0.15 V 50Ω

10 MS/s

☐ NORMAL



Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
value	-40 mV	406 mV	3.1 V	-40 mV	-229.2 V	
mean	-46.53 mV	428.6 mV	3.039 V	2.2 mV	-225.929 V	
min	-75 mV	344 mV	2.5 V	-89 mV	-249.5 V	
max	-28 mV	563 mV	3.8 V	83 mV	-171.6 V	
sdev	7.31 mV	52.9 mV	170 mV	27.2 mV	17.019 V	
num	1.766e+3	1.766e+3	1.766e+3	1.766e+3	1.766e+3	
status	✓	✓	✓	✓	✓	

C1

DCIM

500 mV/div

-200 mV offset

-376 mV

-147 mV

228 mV

Δy

C2

DCIM

1.00 V/div

-1.840 V offset

-3 mV

28 mV

30 mV

Δy

C4

DCIM

100 V/div

269.0 V offset

-375.3 V

-271.4 V

104.0 V

Δy

Timebase

-4.00 ms

Trigger

Edge

DC

1.00 ms/div

Normal

200 mV

1.00 MS

100 MS/s

Edge

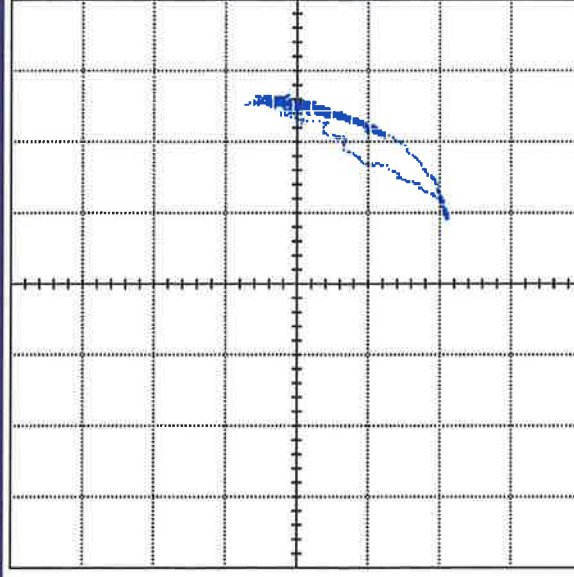
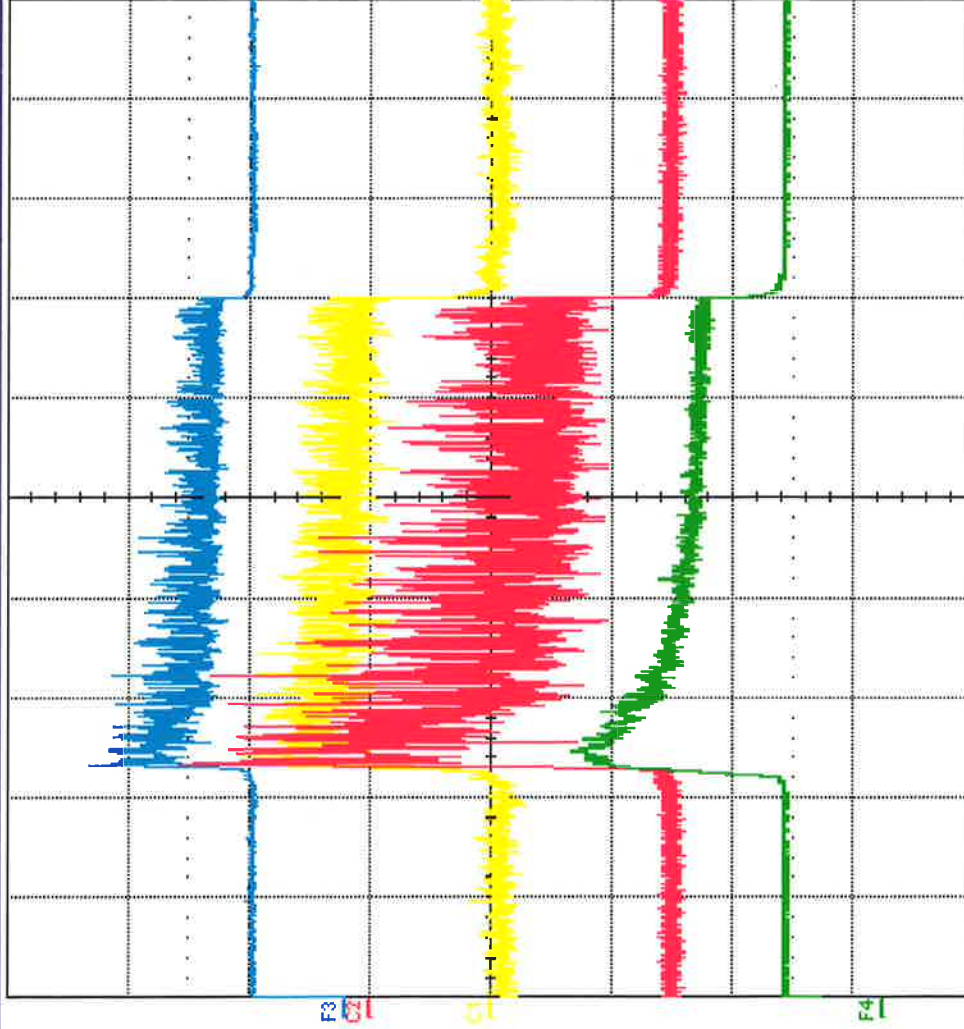
Negative

X1= 7.13021 ms

ΔX= -5.48404 ms

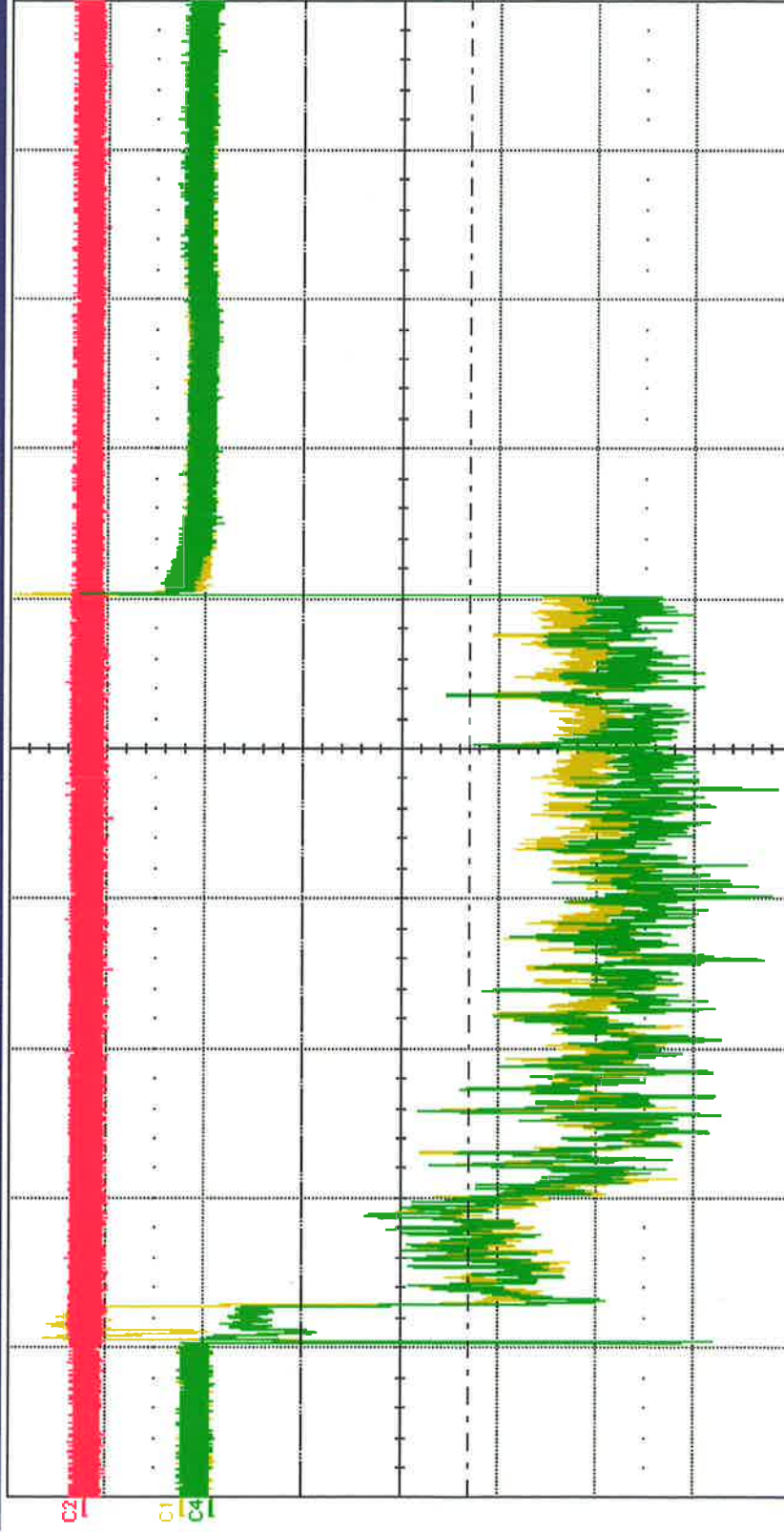
X2= 1.64617 ms

1/ΔX= -182.3473 Hz



C1	FLI(DC1M)	200 mV/div	0.0 mV ofst
C2	DC1M	200 mV/div	198.0 mV
F3	script(C1,C2)	2.00/div	1.00 ms/div
F4	<F3>	1.00/div	1.00 ms/div
X1	X1 Y1 Y2	200 mV/div	200 mV/div
		26 #	26 #

Tbase	-3.04 ms	Trigger	C4 DC
	1.00 ms/div	Normal	200 mV
	10.0 kS	Edge	Negative



Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-83.13 mV	-87.72 mV	-85.67 mV	-87.94 mV	-7.2598522167°	
status	✓	✓	✓	✓	⚠	

C1

20.0 mV/div

44.00 mV offset

58.0 mV

24.0 mV

34.0 mV

ΔV

C2

2.00 V/div

8.400 V offset

-7.80 V

-4.40 V

3.40 V

ΔV

C4

20.0 mV/div

38.00 mV offset

-52.0 mV

-18.0 mV

34.0 mV

ΔV

Timebase

-4.00 ms

1.00 ms/div

100 MS/s

1.00 MS

Trigger

Normal

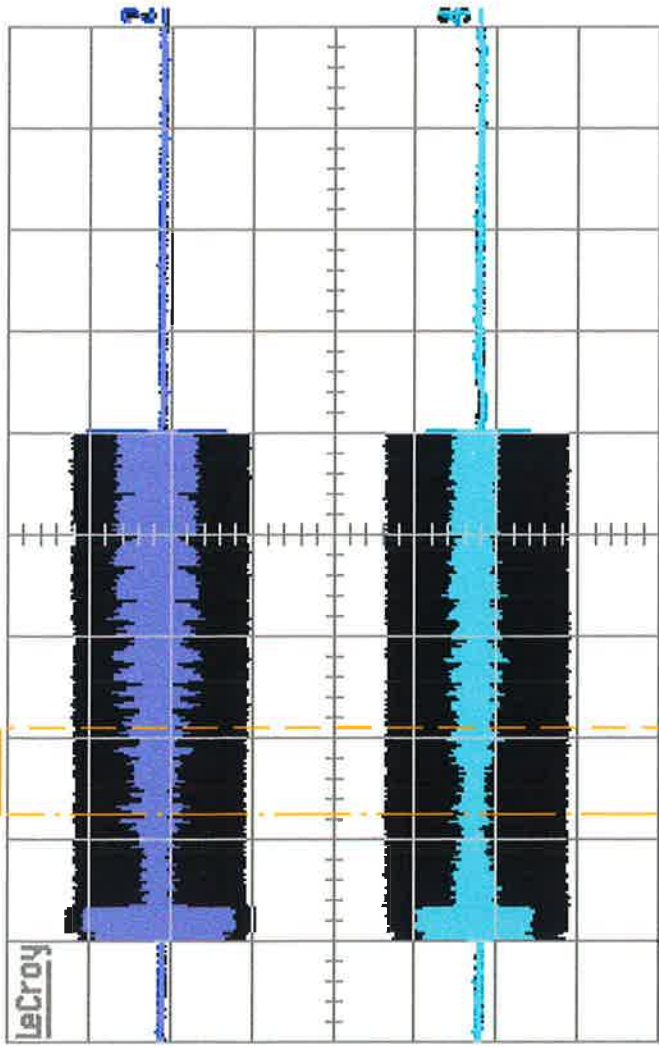
Edge

Ext/IO

200 mV

Negative

3-Feb-20
14:26:05



1 1 ms
0.50 V

2 1 ms
200 mV

3 1 ms
0.50 V

4 1 ms
200 mV

29 sweeps:				
rms(1)	average	low	high	sigma
rms(2)	369.4 mV	365.9	371.9	1.6
rms(3)	34.9 mV	30.7	38.2	1.8
rms(4)	384.5 mV	382.5	386.3	1.4
phase(1,3)	24.9 mV	22.9	28.6	1.6
	-8 °	-145	75	89

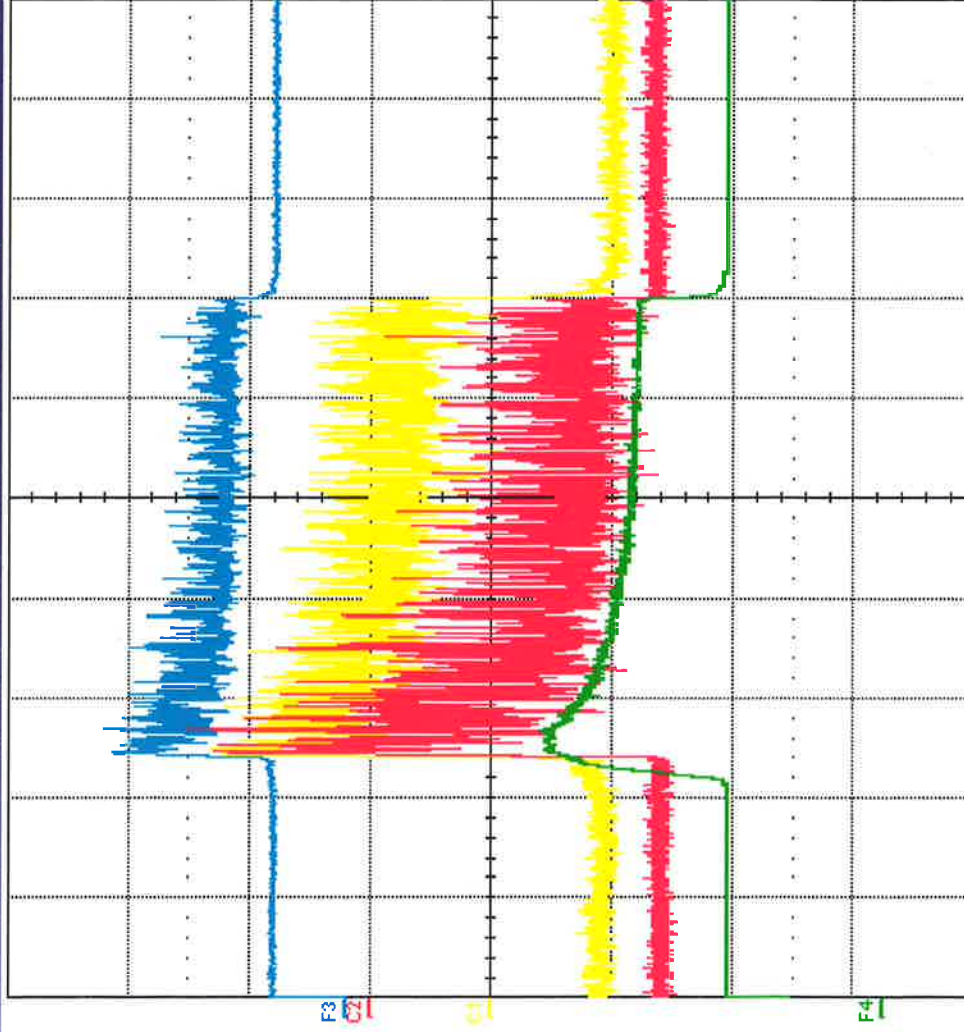
1 ms

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

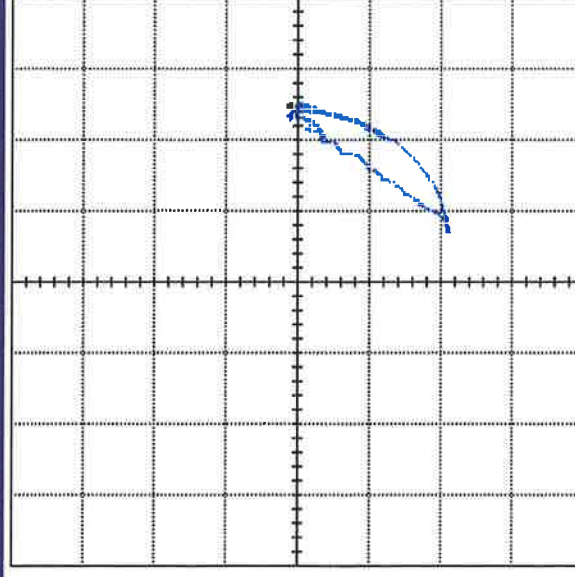
10 MS/s

Ext10 DC 0.15 V 50Ω

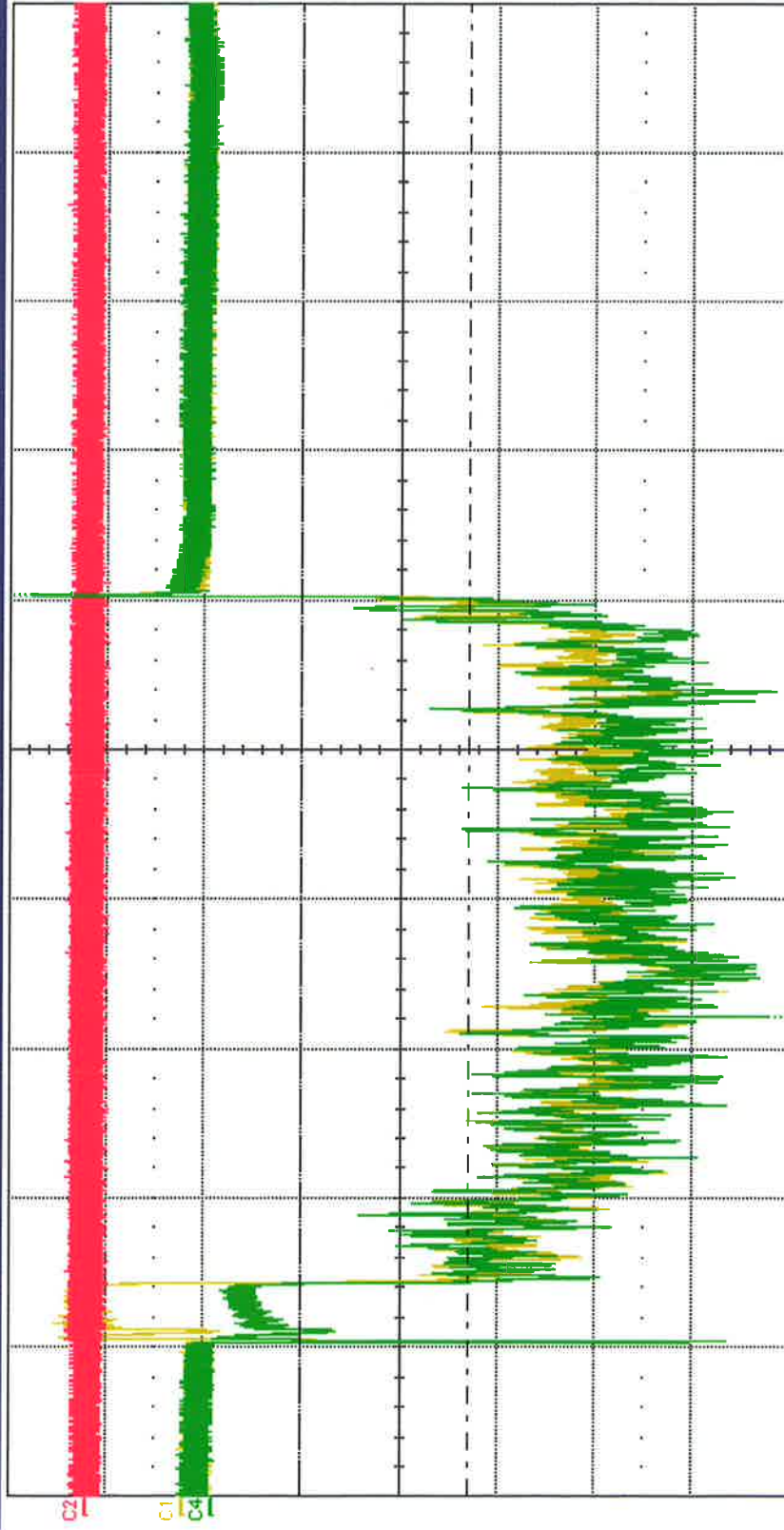
☐ NORMAL



C1	ELT DC1M	200 mV/div	0.0 mV ofst
C2	DC1M	200 mV/div	198.0 mV
F3	script(C1,C2)	2.00/div	1.00 ms/div
F4	<F3>	1.00/div	1.00 ms/div
XY	X:Y:Y:F2	200 mV/div	200 mV/div
		167 #	167 #

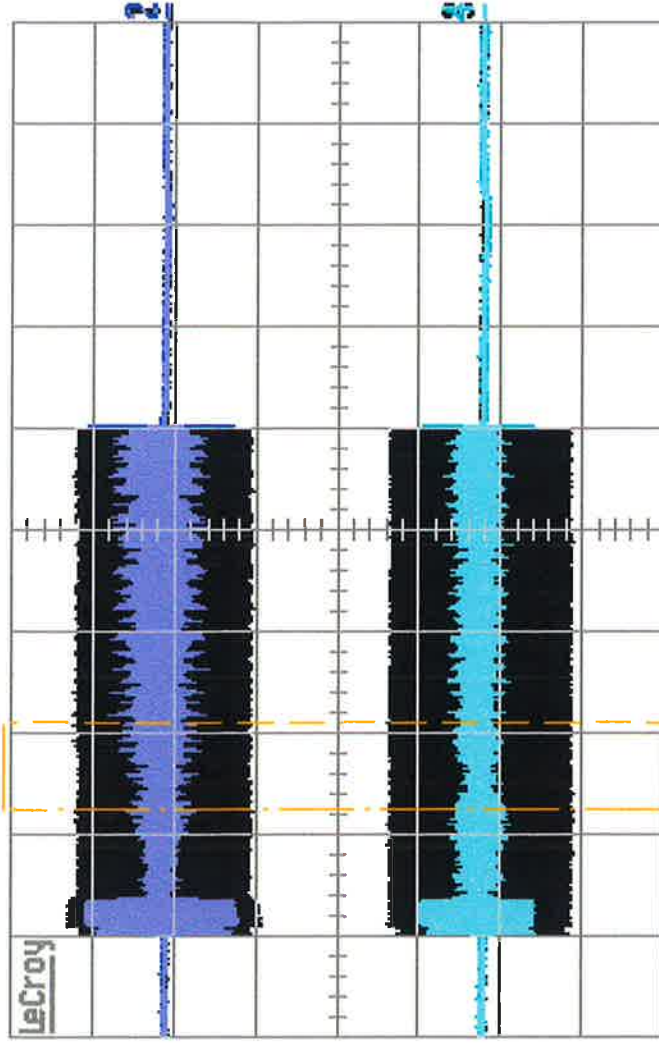


Tbase	-3.04 ms	Trigger	C4 DC
	1.00 ms/div	Normal	200 mV
10.0 kS	1.0 MS/s	Edge	Negative



Measure		P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---	
value		-81.75 mV	-86.26 mV	-83.19 mV	-83.93 mV	2.6615025635 °		
status		✓	✓	✓	✓	▲		
C1	DCIM	20.0 mV/div 44.00 mV/div 58.0 mV 24.0 mV 34.0 mV Δy	DCIM	20.0 mV/div 38.00 mV/div 52.0 mV 18.0 mV 34.0 mV Δy	DCIM	20.0 mV/div 38.00 mV/div 52.0 mV 18.0 mV 34.0 mV Δy	DCIM	200 mV 100 MS 1.00 MS
C2	DCIM	2.00 V/div 6.400 V offset 7.80 V 4.40 V 3.40 V Δy	DCIM	2.00 V/div 6.400 V offset 7.80 V 4.40 V 3.40 V Δy	DCIM	2.00 V/div 6.400 V offset 7.80 V 4.40 V 3.40 V Δy	DCIM	200 mV 100 MS/s Edge Negative
C4	DCIM	2.00 V/div 6.400 V offset 7.80 V 4.40 V 3.40 V Δy	DCIM	2.00 V/div 6.400 V offset 7.80 V 4.40 V 3.40 V Δy	DCIM	2.00 V/div 6.400 V offset 7.80 V 4.40 V 3.40 V Δy	DCIM	200 mV 100 MS/s Edge Negative

3-Feb-20
14:28:35



1
1 ms
0.50 V

2
1 ms
200 mV

3
1 ms
0.50 V

4
1 ms
200 mV

3 sweeps:				
	average	low	high	sigma
rms(1)	368.0 mV	366.7	369.4	1.3
rms(2)	34.6 mV	31.3	36.6	2.8
rms(3)	383.2 mV	382.6	384.0	0.7
rms(4)	24.9 mV	22.4	26.7	2.2
phase(1,3)	-6 °	-144	74	89

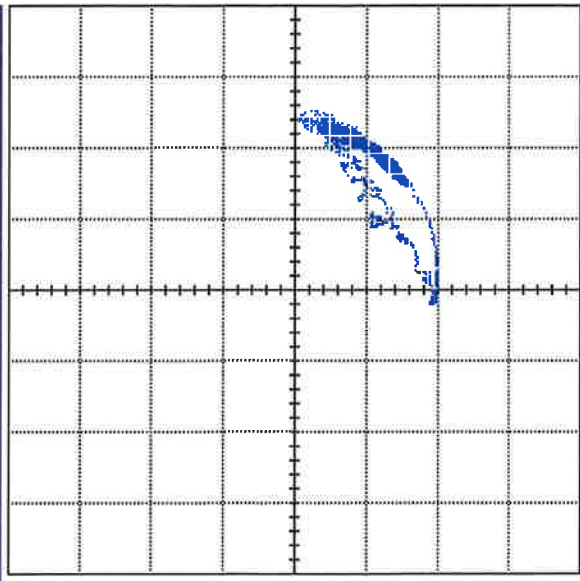
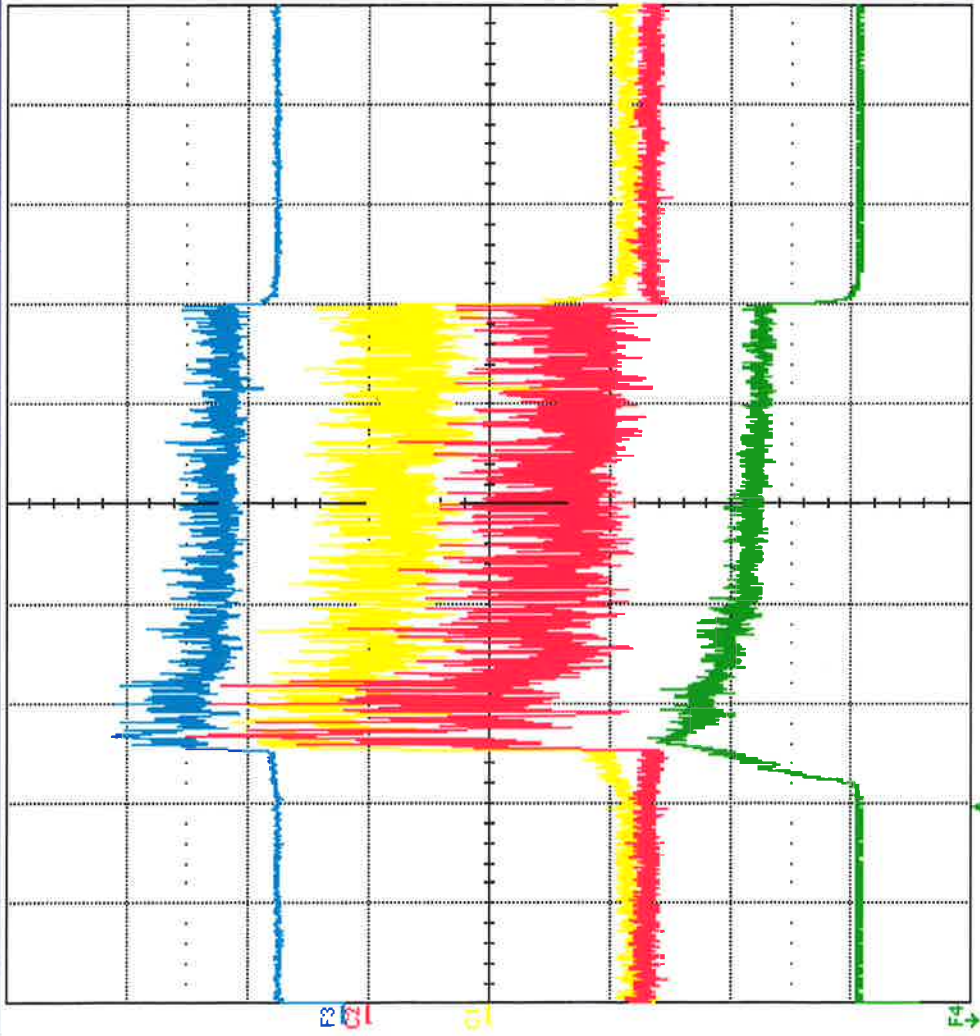
1 ms

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

10 MS/s

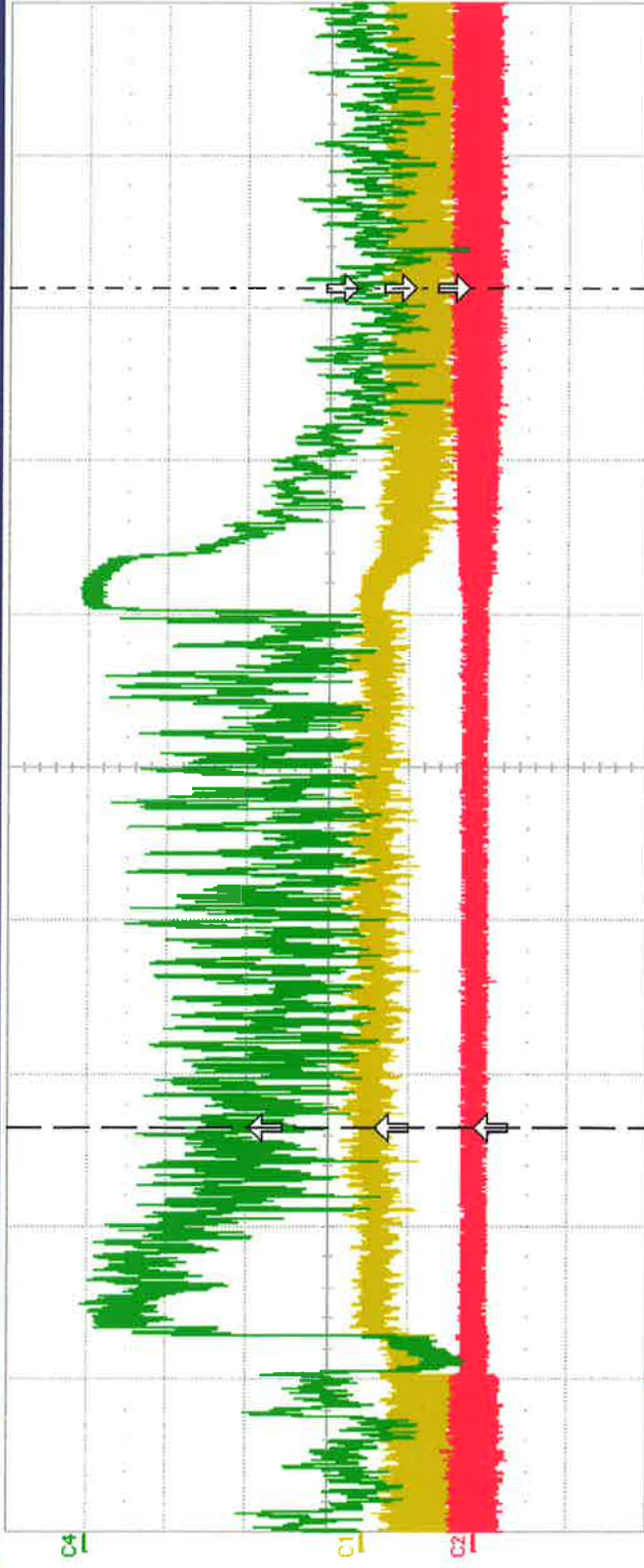
Ext10 DC 0.15 V 50Ω

☐ NORMAL



C1	FLI [DC1M]	200 mV/div	0.0 mV offset
C2	DC1M	200 mV/div	198.0 mV
F3	script(C1,C2)	2.00/div	1.00 ms/div
F4	<F3>	1.00/div	1.00 ms/div
XY	X:1 Y:F2	200 mV/div	200 mV/div

Tbase	-3.04 ms	Trigger	C4 DC
	1.00 ms/div		Normal
	10.0 kS		Edge
	1.0 MS/s		Negative



Measure

value	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
mean	-66 mV	438 mV	3.1 V	-45 mV	-230.0 V	
min	-65.51 mV	393.8 mV	3.050 V	-36.1 mV	-229.342 V	
max	-81 mV	344 mV	2.8 V	-134 mV	-239.4 V	
sdev	-53 mV	531 mV	3.4 V	46 mV	-203.6 V	
	4.65 mV	25.0 mV	144 mV	33.0 mV	5.954 V	
num	130	130	130	130	130	
status	✓	✓	✓	✓	✓	

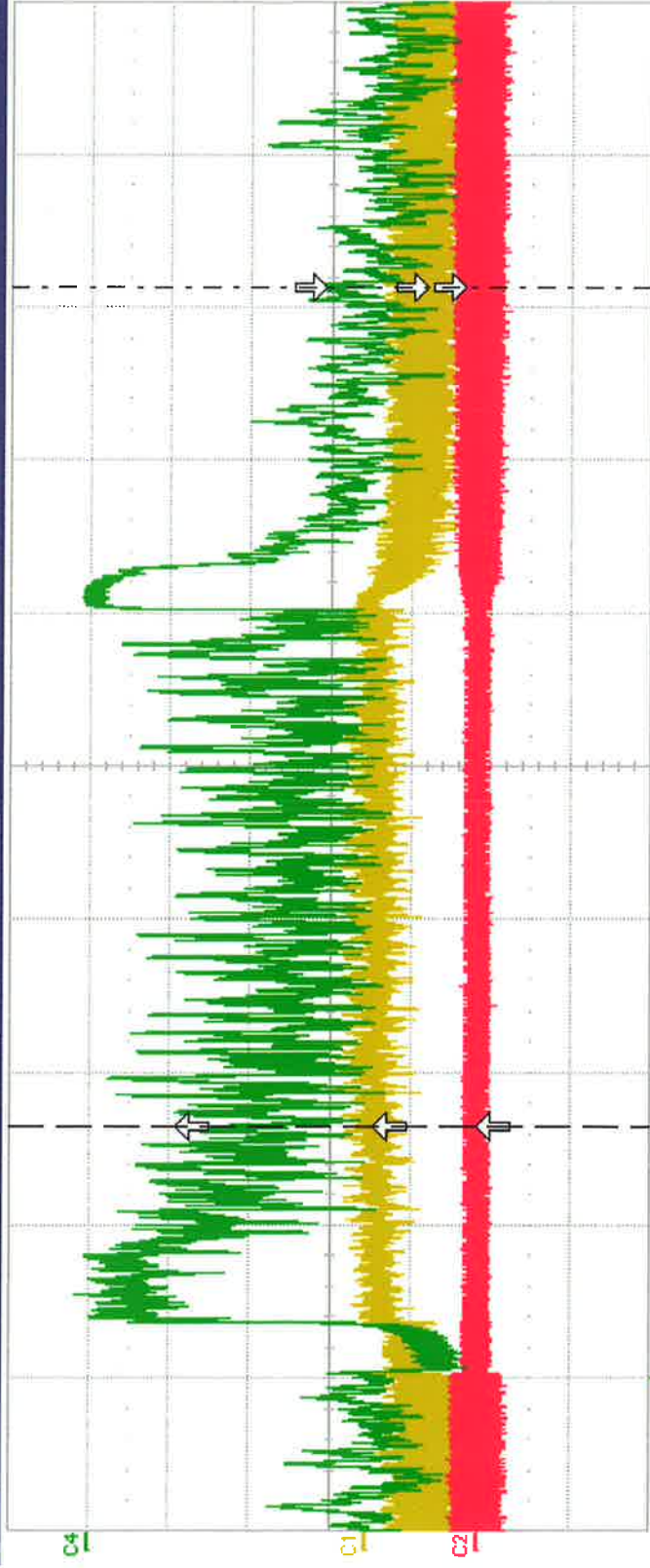
C1	DCIM
500 mV/div	100 V/div
-230 mV offset	230.0 V offset
-273 mV	-339.0 V
-40 mV	-120.6 V
253 mV	216.4 V
ΔV	ΔV

C2	DCIM
1.00 V/div	100 V/div
-4.840 V offset	230.0 V offset
146 mV	-339.0 V
-9 mV	-120.6 V
-156 mV	216.4 V
ΔV	ΔV

C4	DCIM
100 V/div	100 V/div
230.0 V offset	230.0 V offset
-339.0 V	-339.0 V
-120.6 V	-120.6 V
216.4 V	216.4 V
ΔV	ΔV

Timebase	4.00 ms	Trigger	Edge	Normal	200 mV
1.00 MS	100 MS/s	Edge	Negative		

X1= 7.13021 ms ΔX= -5.48404 ms
X2= 1.64617 ms 1/ΔX= -182.3473 Hz

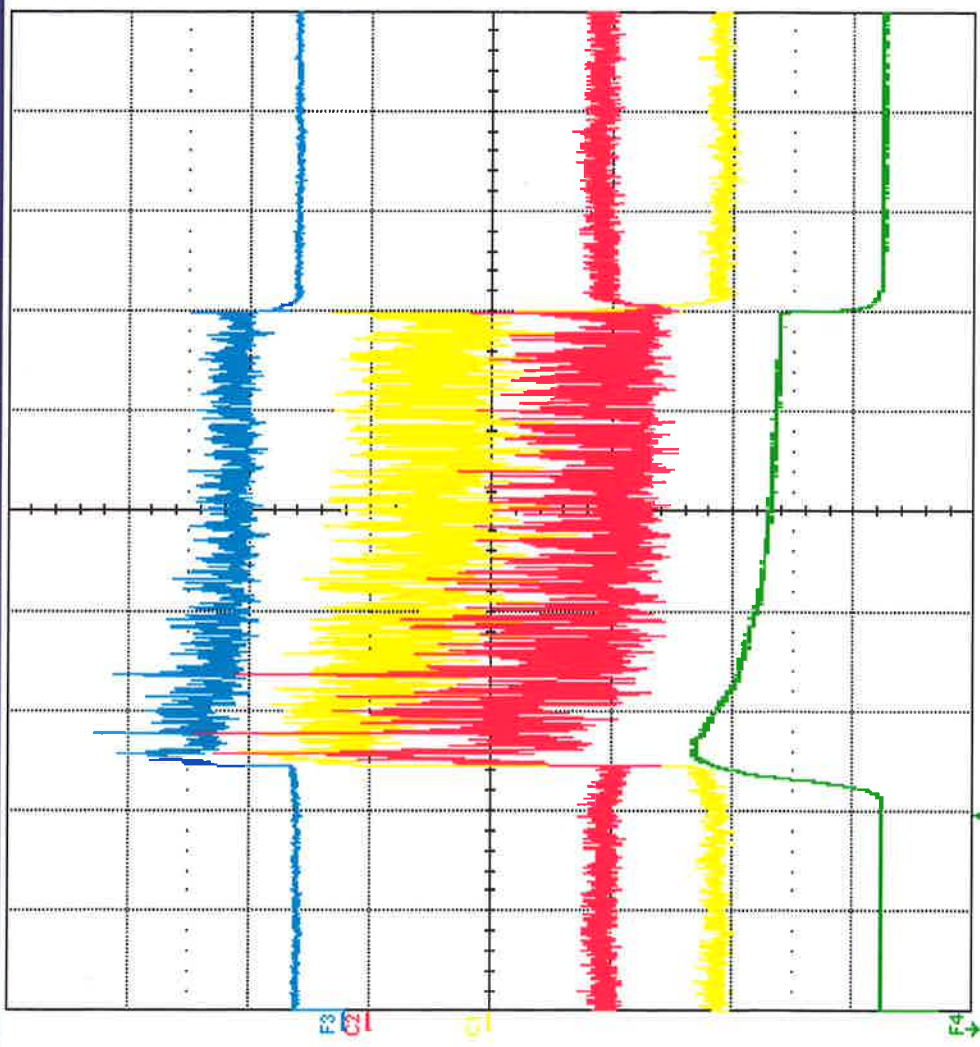


Measure

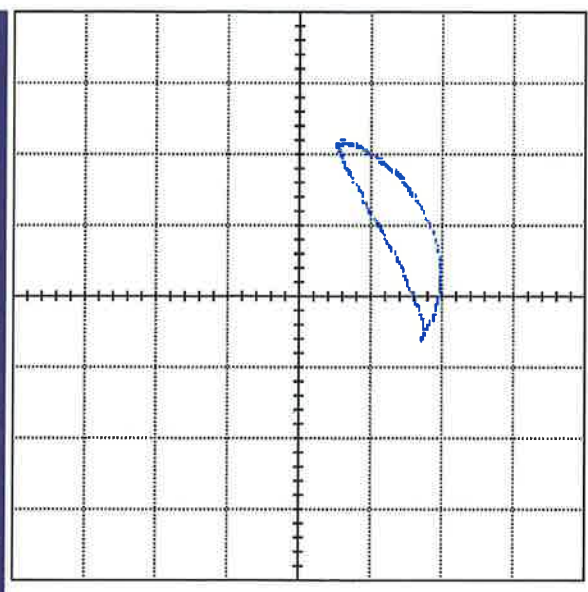
value	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
mean	-59 mV	438 mV	3.1 V	-101 mV	-242.2 V	
min	-65.14 mV	392.2 mV	3.073 V	-39.7 mV	-231.502 V	
max	-127 mV	344 mV	2.5 V	-134 mV	-243.3 V	
sdev	-49 mV	531 mV	3.4 V	46 mV	-185.3 V	
num	5.42 mV	23.4 mV	148 mV	31.9 mV	6.150 V	
status	877	877	877	877	877	

C1	C2	C4
500 mV/div	100 V/div	200 mV
-230 mV offset	-4.840 V offset	Normal
-361 mV	189 mV	Edge
-49 mV	-4 mV	Negative
313 mV	-192 mV	

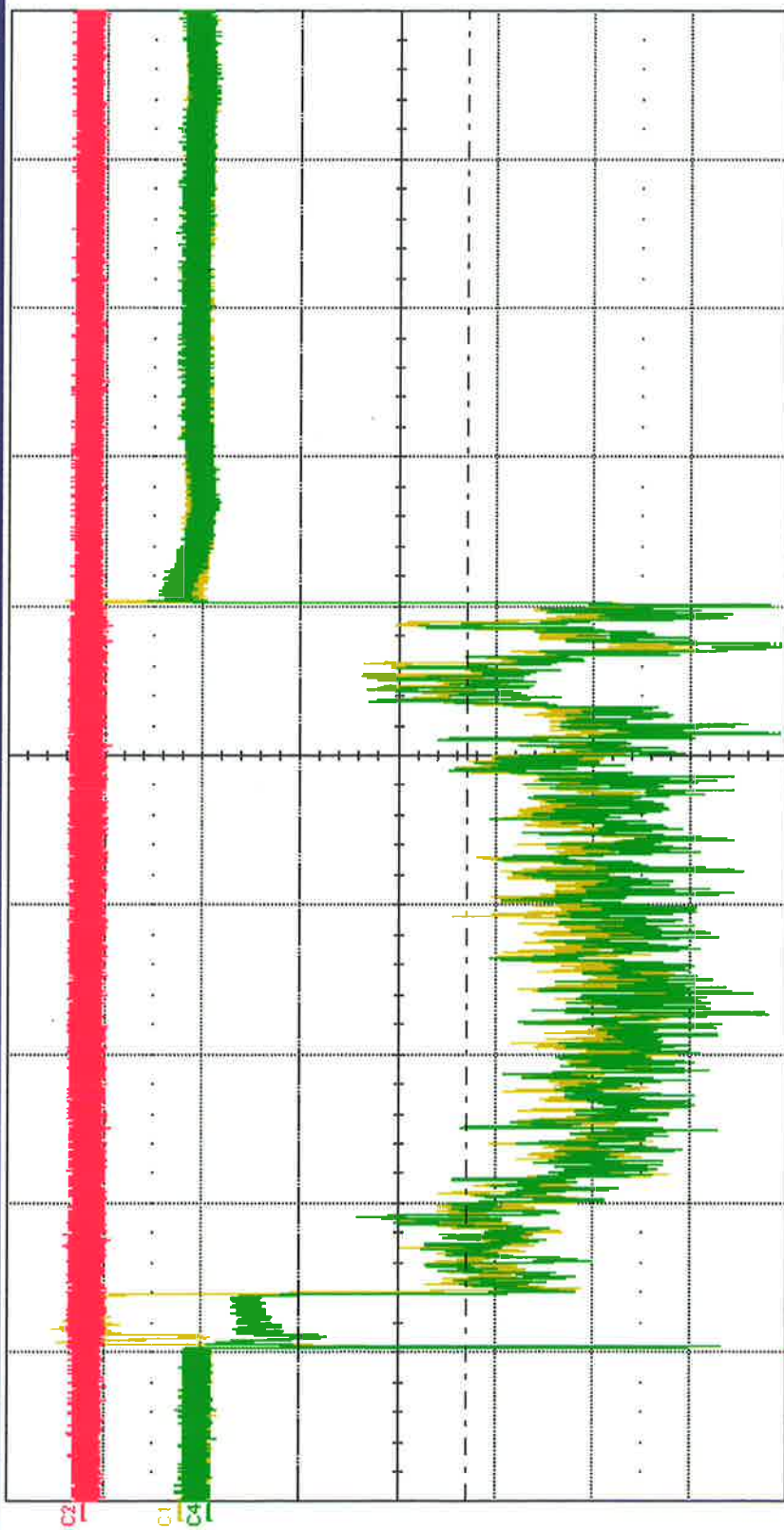
Timebase	4.00 ms	Trigger	Ex710 DC
1.00 ms/div	1.00 ms/div	Normal	200 mV
1.00 mS	100 mS/s	Edge	Negative
X1=	7.13021 ms	ΔX=	-5.48404 ms
X2=	1.64617 ms	1/ΔX=	-182.3473 Hz



C1	FLTDUIM	200 mV/div	0.0 mV ofst
C2	CCIM	200 mV/div	198.0 mV
F3	scrip(C1,C2)	2.00/div	1.00 ms/div
F4	<F3>	1.00/div	1.00 ms/div
X1	X1Y1YF2	200 mV/div	200 mV/div
			937 #



Tbase	-3.04 ms	Trigger	C4 DC
	1.00 ms/div	Normal	200 mV
10.0 kS	1.0 MS/s	Edge	Negative



Measure

value
status

C1	DCIM
20.0 mV/div	20.0 mV/div
44.00 mV offset	44.00 mV offset
---	---
-58.0 mV	-58.0 mV
---	---
-24.0 mV	-24.0 mV
---	---
34.0 mV	34.0 mV
Δy	Δy

C2	DCIM
2.00 V/div	2.00 V/div
6.400 V offset	6.400 V offset
---	---
-7.80 V	-7.80 V
---	---
-4.40 V	-4.40 V
---	---
3.40 V	3.40 V
Δy	Δy

C4	DCIM
20.0 mV/div	20.0 mV/div
38.00 mV offset	38.00 mV offset
---	---
-52.0 mV	-52.0 mV
---	---
-18.0 mV	-18.0 mV
---	---
34.0 mV	34.0 mV
Δy	Δy

P1:mean(Z1)

-69.46 mV ✓

P2:mean(Z4)

-66.13 mV ✓

P3:mean(C1)

-79.64 mV ✓

P4:mean(C4)

-81.90 mV ✓

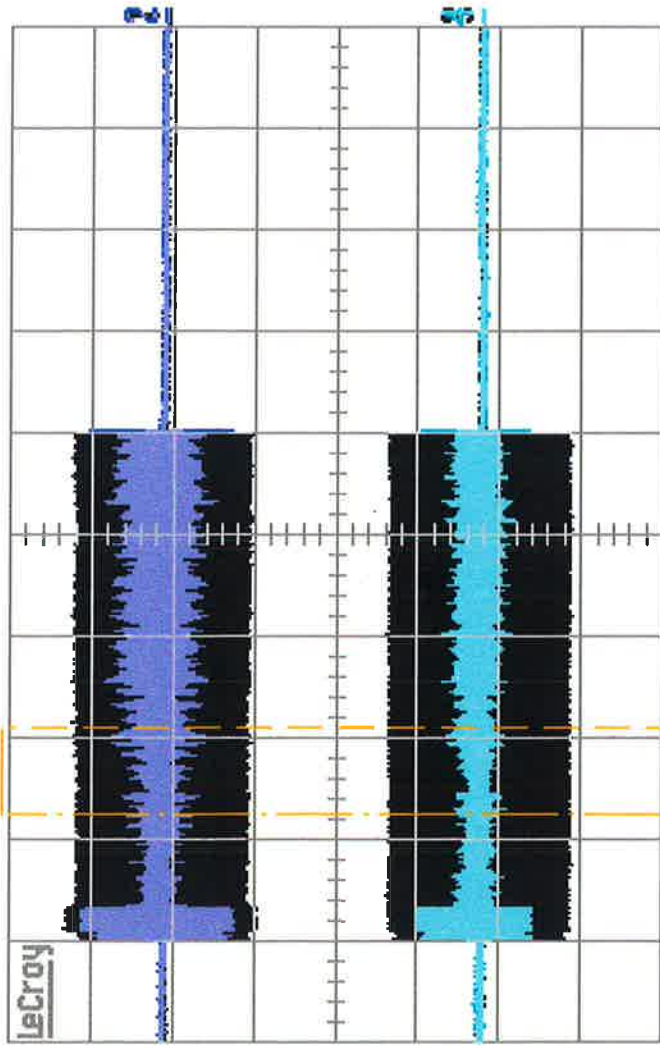
P5:phase(C1,C4)

26.3629992992°

P6:---

Timebase	4.00 ms	Trigger	Ext/ID	DC
1.00 MS	1.00 ms/div	Normal	Edge	Negative

3-Feb-20
14:45:34



1010 sweeps:

rms(1)	average	low	high	sigma
rms(2)	370.1 mV	363.3	407.6	2.5
rms(3)	36.5 mV	23.0	134.0	5.1
rms(4)	383.9 mV	380.5	387.1	1.5
phase(1,3)	25.4 mV	19.2	93.1	3.7
	-9 °	-145	110	89

1 ms

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

10 MS/s

☐ NORMAL