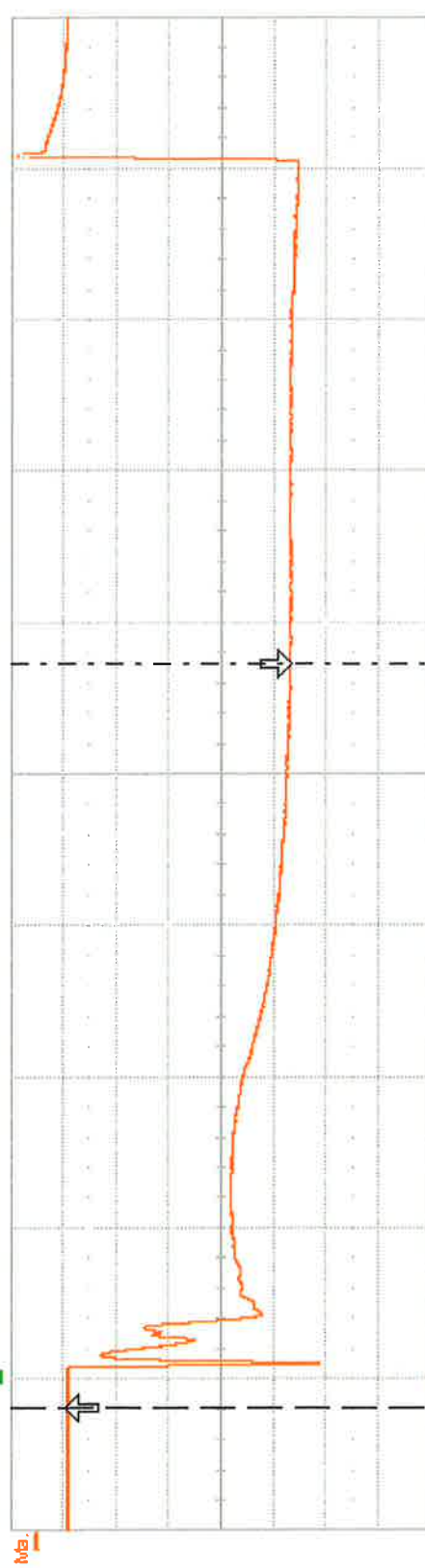
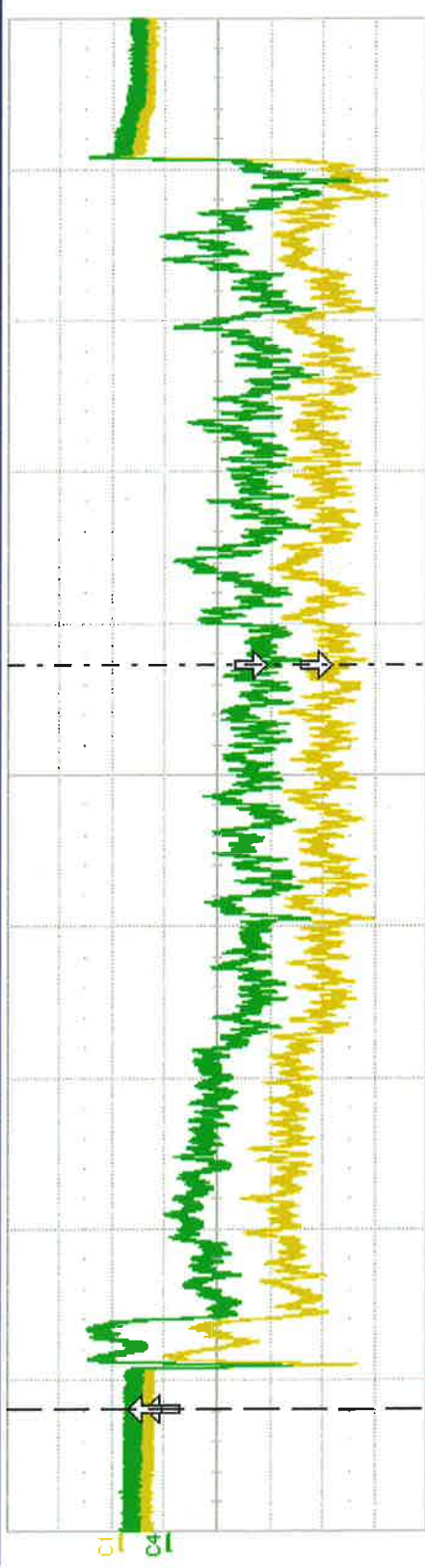


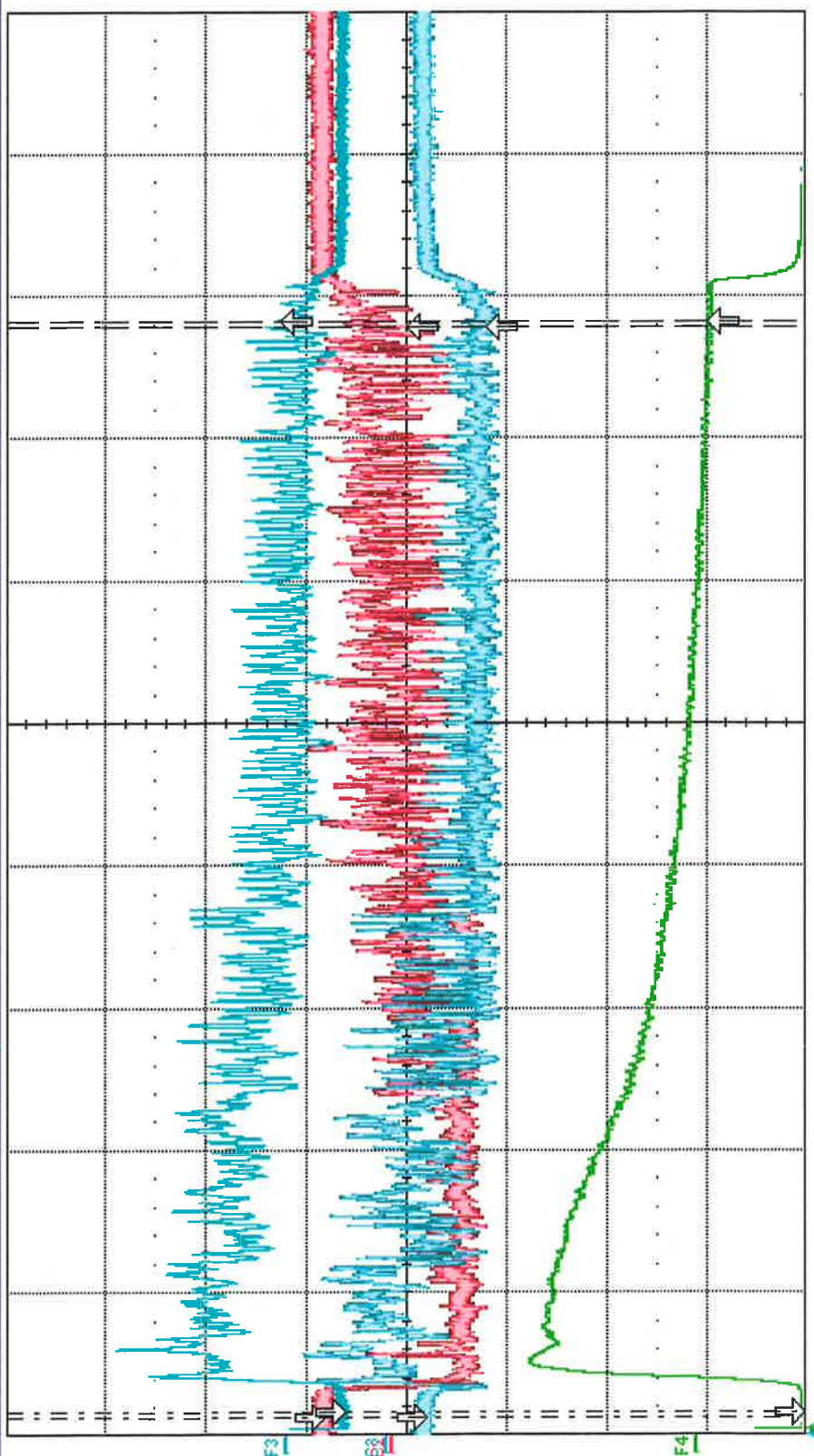
Thase	-2.0008 ms	Trigger	Ext/IO DC
	500 μ s/div	Normal	700 mV
50.0 kS	1.0 GS/s	Edge	Negative

C1	C3	C4	Math	C3A
DCIM	DC	DCIM	Math	C3A
200 mV/div	5.00 A/div	100 V/div	500 mA/div	500 mA/div
680.0 mV offset	0.00 A offset	300.0 V offset	5.00 μ S/div	5.00 μ S/div
			3 #	
			133 mA	133 mA
			-1.223 A	-1.223 A
			-1.355 A	-1.355 A
			Δy	Δy



C1	DCIM	C4	DCIM	Math	<C1>
5.00 mV/div	5.00 mV/div	5.00 mV/div	5.00 mV/div	4.00 mV/div	4.00 mV/div
9.00 mV ofst	9.00 mV ofst	4.50 mV ofst	4.50 mV ofst	500 μs/div	500 μs/div
↑	↑	↑	↑	2.064 kΩ	2.064 kΩ
ΔV	ΔV	ΔV	ΔV	↑	↑
-19.63 mV	-19.63 mV	-9.07 mV	-9.07 mV	-19.9338 mV	-19.9338 mV
-2.44 mV	-2.44 mV	3.75 mV	3.75 mV	2.9736 mV	2.9736 mV
17.19 mV	17.19 mV	12.82 mV	12.82 mV	16.9630 mV	16.9630 mV

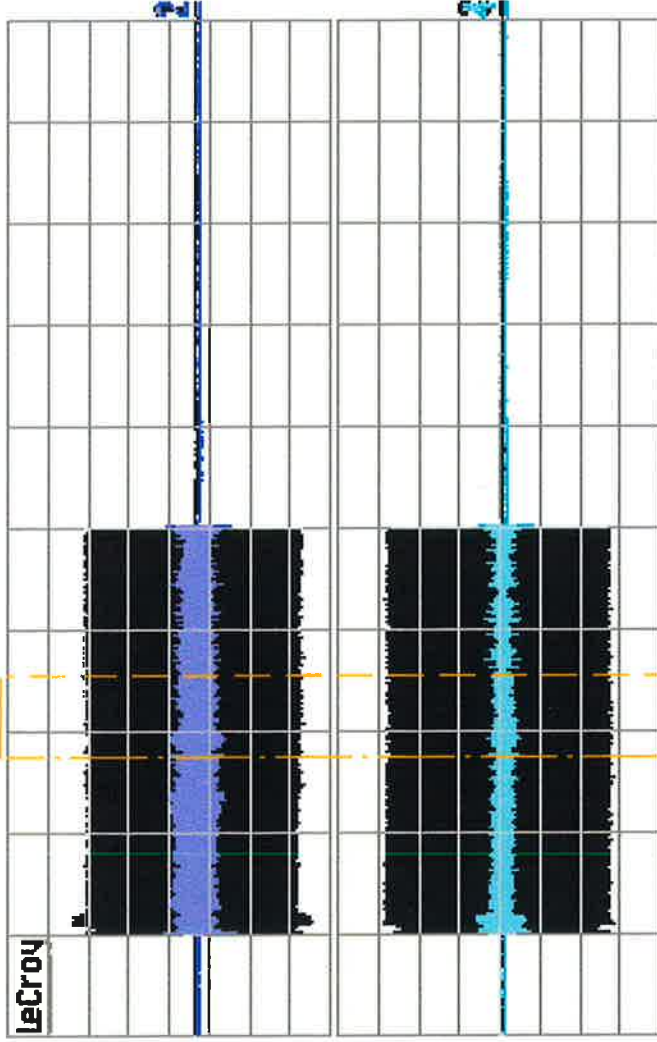
Timebase	-1.99 ms	Trigger	Edge	Normal	700 mV	DC
2.00 MS	400 MS/s	Edge	Normal	700 mV	Negative	DC
X1=	2.349145 ms	ΔX=	-2.452785 ms			
X2=	-103.640 μs	1/ΔX=	-407.6998 Hz			



Tbase	-2.50 ms	Trigger	Ext10	DC
WStream	500 μ s	Normal	30 mV	
50.0 kS	10 MS/s	Edge	Negative	
X1=	63.5 μ s	Δ X=	3.8298 ms	
X2=	3.8933 ms	1/ Δ X=	261.110 Hz	

C2	DC1M	500 mV/div	75 mV offset	338 mV	↓	↑	Δ y
				-84 mV	↑	↓	
				-423 mV			
C3	DC1M	500 mV/div	100 mV offset	-189 mV	↓	↑	Δ y
				-507 mV	↑	↓	
				-317 mV			
F3	script(C3,C2)	2.00/div	500 μ s/div	-1.159	↓	↑	Δ y
				65e-3	↑	↓	
				1.224			
F4	<F3>	1.00/div	500 μ s/div	533 #	↓	↑	Δ y
				-1.07769	↑	↓	
				-134.50e-3			
				943.19e-3			

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1 1 ms
200 mV

2 1 ms
200 mV

3 1 ms
200 mV

4 1 ms
200 mV

1 ms

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

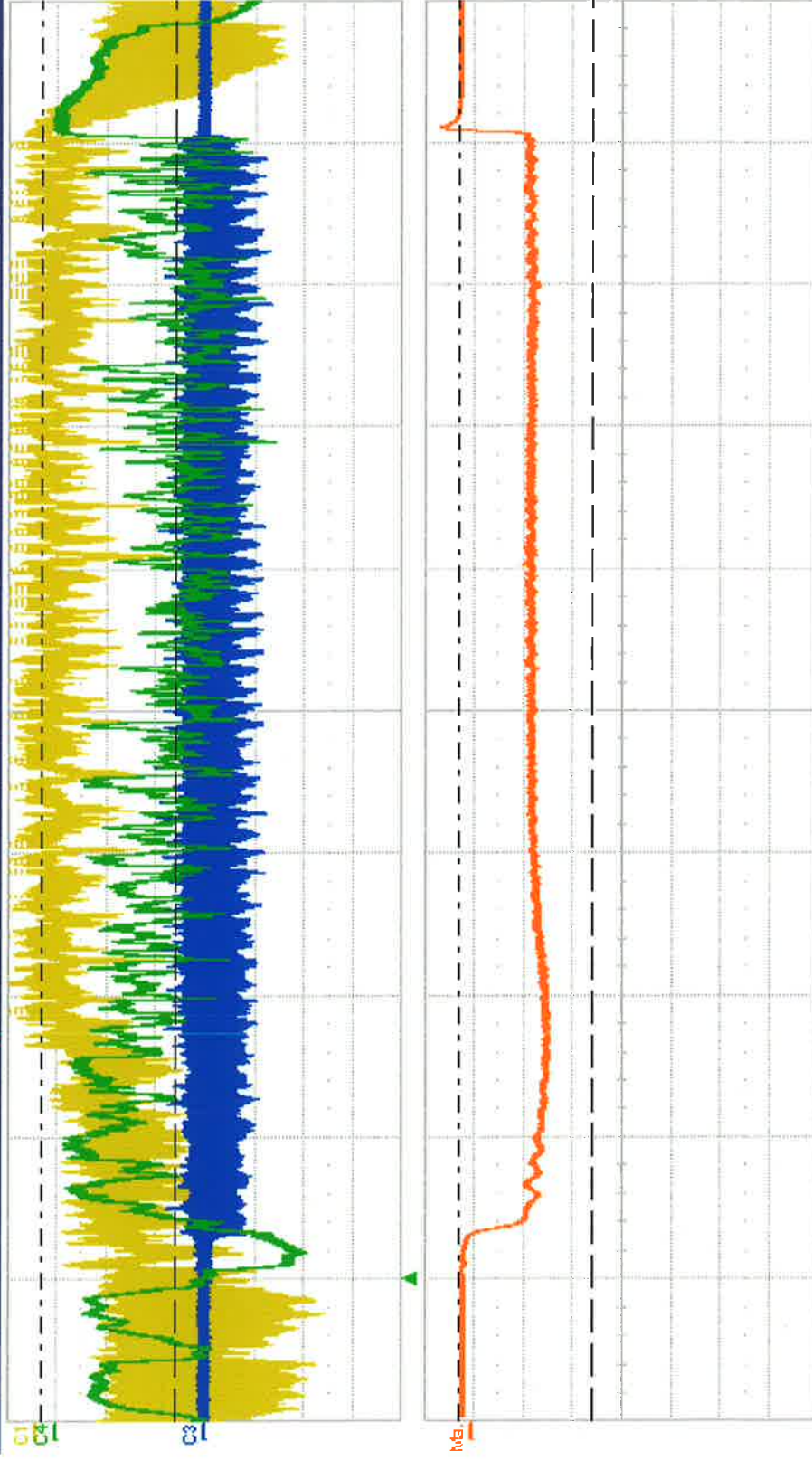
3610 sweeps:

	average	low	high	sigma
rms(1)	372.8 mV	368.1	377.1	1.7
rms(2)	58.5 mV	47.4	69.9	2.9
rms(3)	380.4 mV	375.7	384.5	1.8
rms(4)	29.9 mV	23.4	36.7	1.8
phase(1,3)	77 °	28	131	36

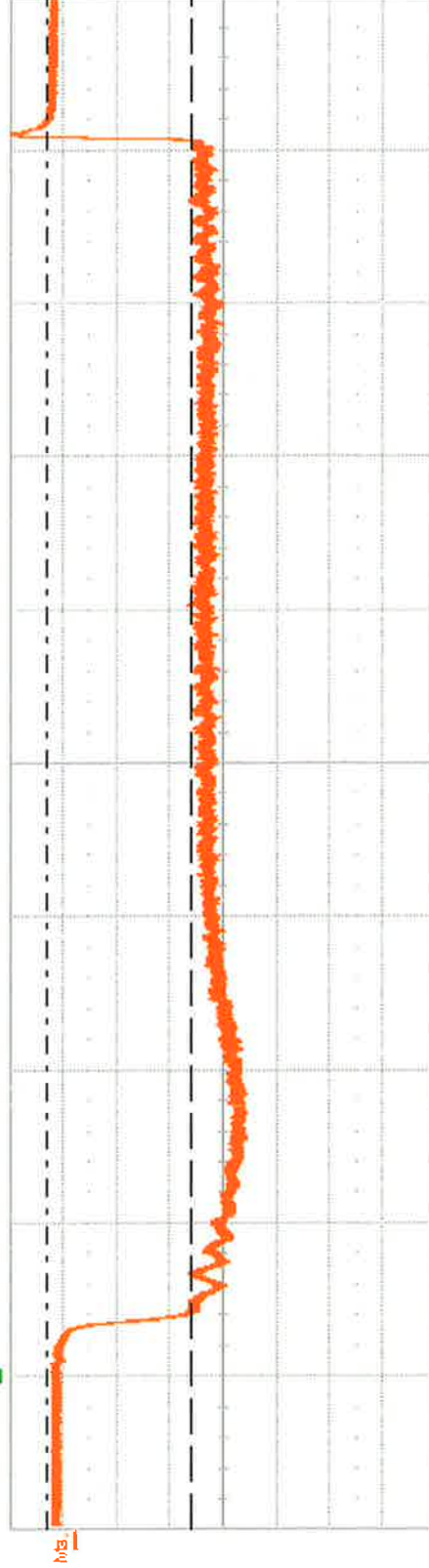
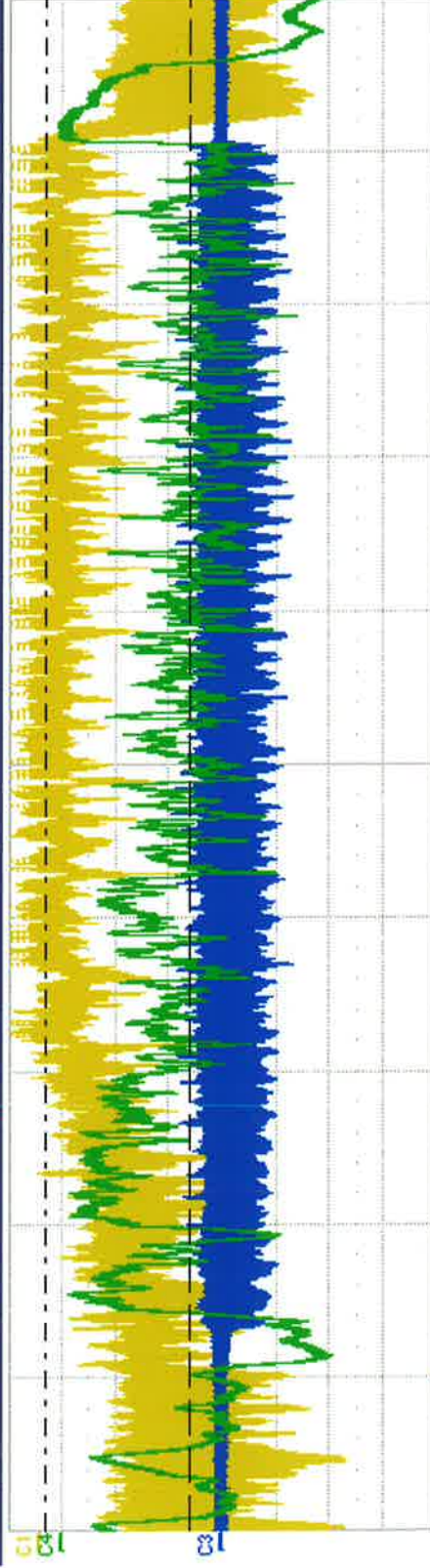
10 MS/s

Ext10 DC 0.15 V 50Ω

☐ NORMAL

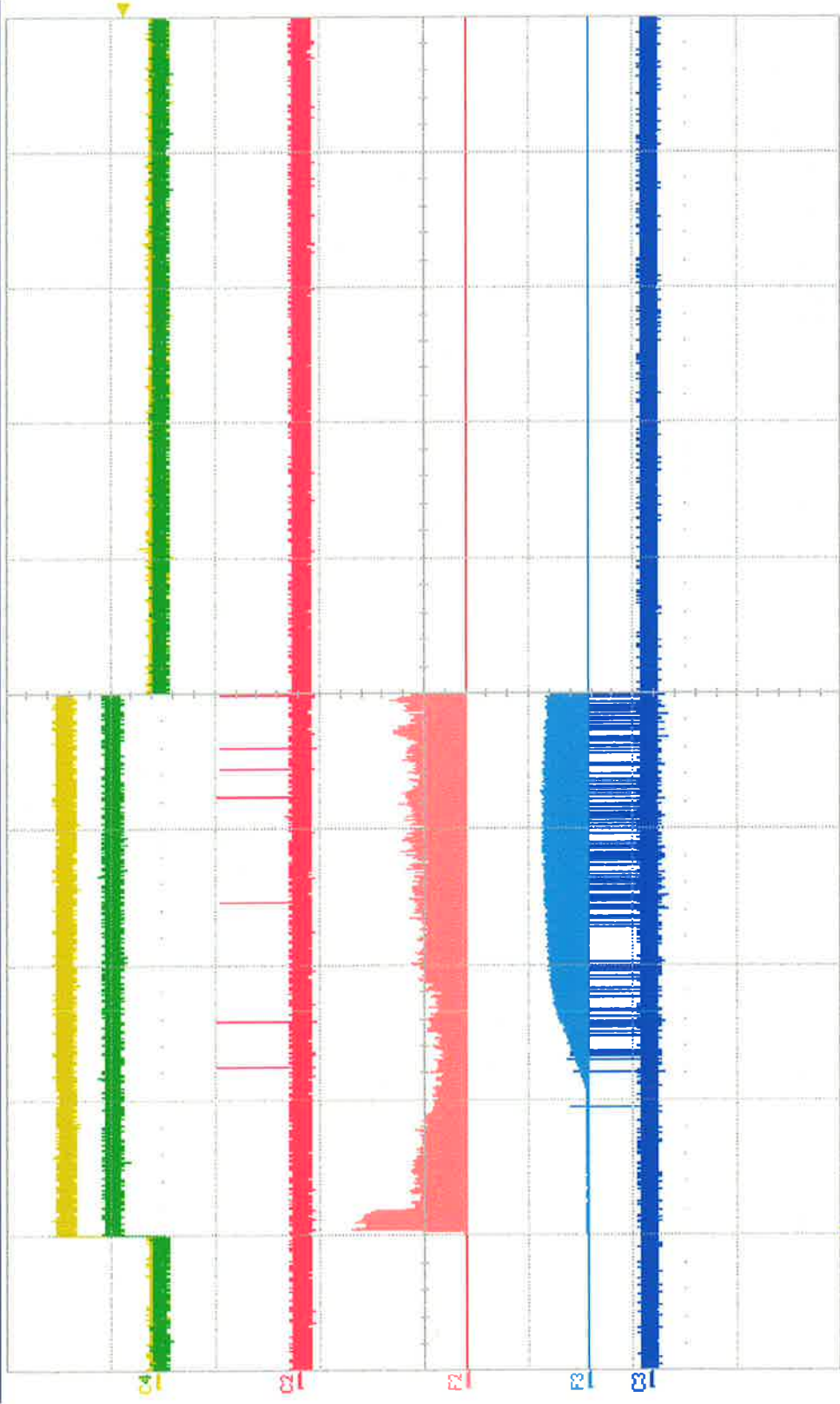


C1	DCIM	200 mV/div	1880.0 mV ofst	C3	DC	10.0 A/div	0.00 A offset	C4	DCIM	100 V/div	300.0 V offset	Math	<C3>	1.00 A/div	500 μs/div	Timebase	-2.00 ms	500 μs/div	200 MS/s	1.00 MS	700 mV	Edge	Trigger	Normal	Edge	Trigger	Ext10	DC	Negative
----	------	------------	----------------	----	----	------------	---------------	----	------	-----------	----------------	------	------	------------	------------	----------	----------	------------	----------	---------	--------	------	---------	--------	------	---------	-------	----	----------

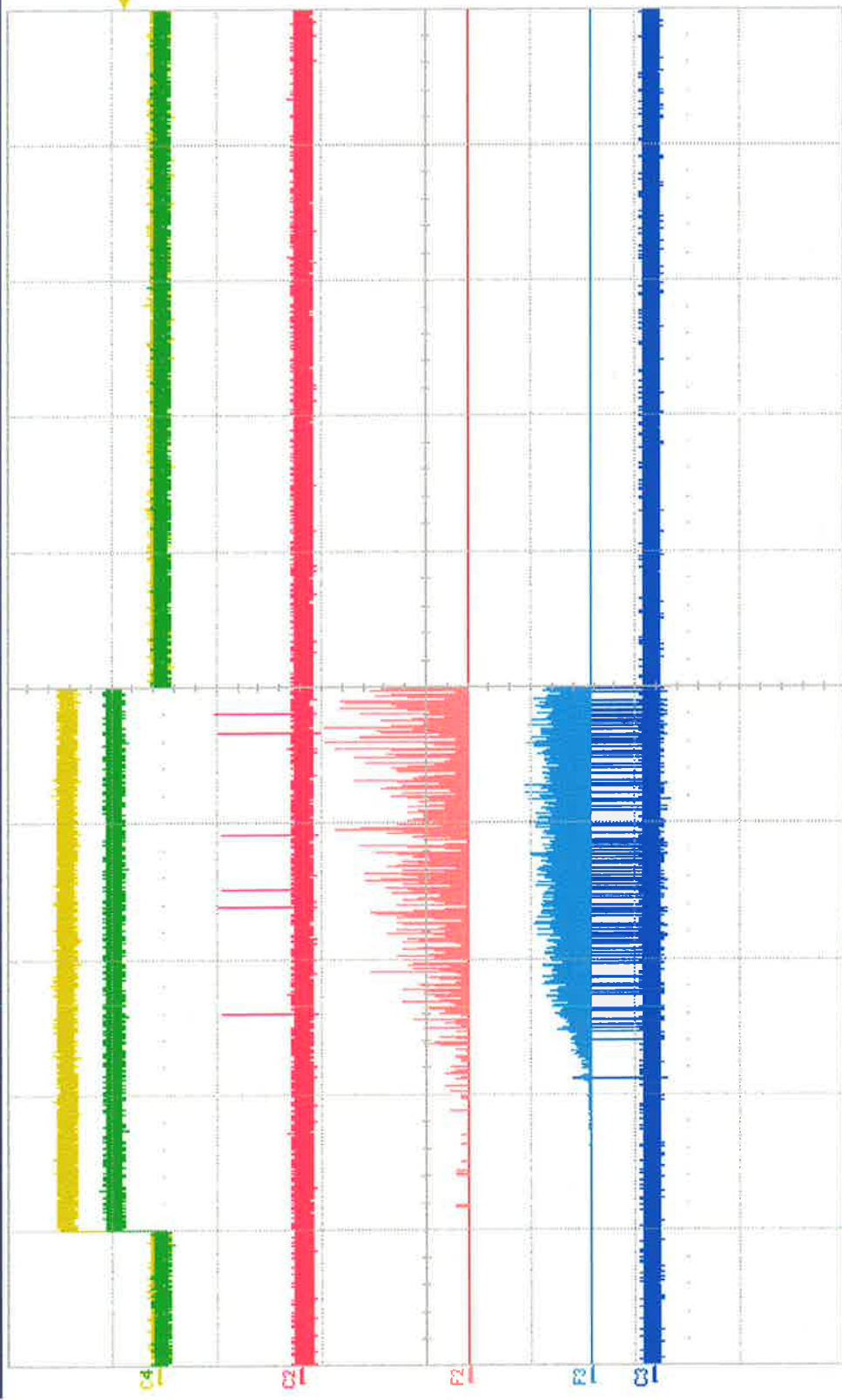


C1	C2	C3	C4	Math	<C3>
200 mV/div	10.0 A/div	100 V/div	500 μ S/div	500 mV/div	500 mV/div
680.0 mV offset	0.00 A offset	300.0 V offset	1.507 μ S	500 μ S/div	500 μ S/div
-18 mV	33.1 A	31 V	265 mA	1.507 μ S	1.507 μ S
-560 mV	6.0 A	-240 V	-1.070 A	265 mA	265 mA
-542 mV	-27.1 A	-271 V	-1.355 A	-1.070 A	-1.070 A
Δy	Δy	Δy	Δy	Δy	Δy

Timebase	-2.00 ms	Trigger	Ext/IO	DC
1.00 MS	500 μ S/div	Normal	700 mV	Negative
	200 MS/s	Edge		



Channel	Unit	Value	Trigger	Level	Edge
C1	V	12.70 V	Normal	1.85 V	Positive
C2	V	5.00 V	Edge		
C3	V	5.00 V			
C4	V	10.0 V			
C5	V	5.00 V			
F2	peris...	2.00 k#			
F3	peris...	50.0 k#			
Tbase	ms	-4.00 ms			
Scale	ms/div	1.00 ms/div			
Bandwidth	MHz	50 MHz			

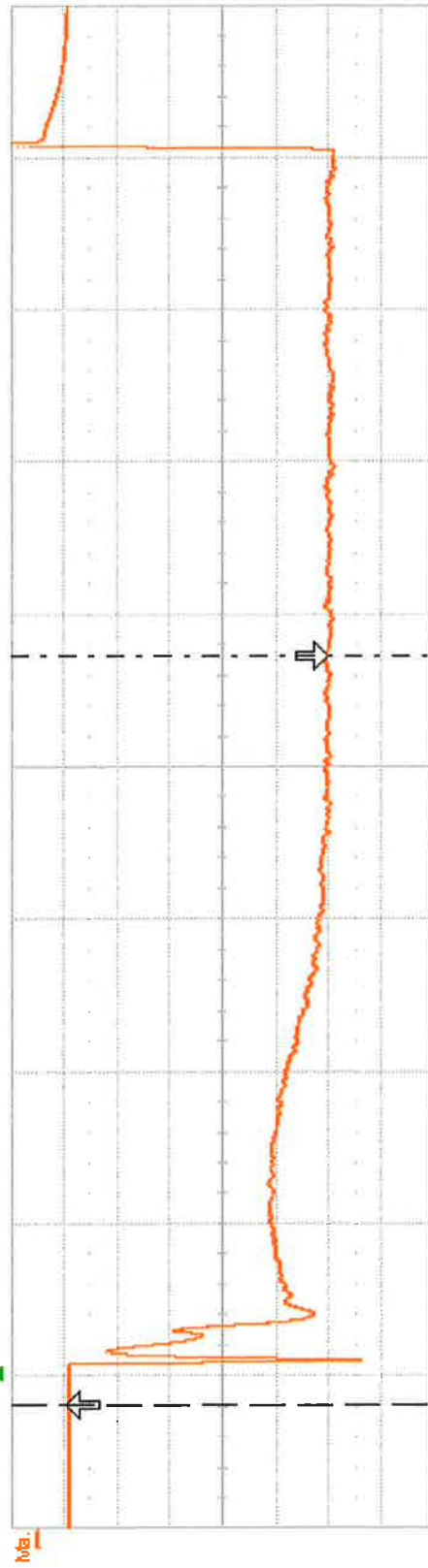
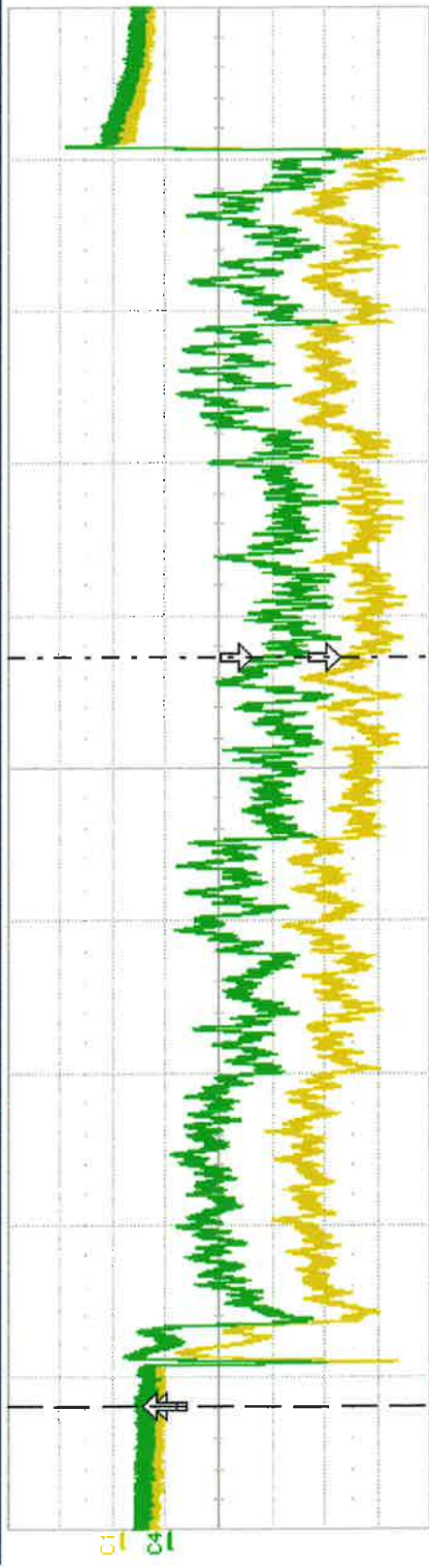


Timebase -4.00 ms
 1.00 ms/div
 500 kS
 Trigger Normal
 1.65 V
 Edge Positive

C1 5.00 V 12.70 V
 C2 5.00 V 5.95 V
 C3 5.00 V -11.0 V
 C4 10.0 V 25.30 V
 F2 peris... 20.0 # 1.0 ms 2.52 k#
 F3 peris... 1.00 k# 1.0 ms 114 k#

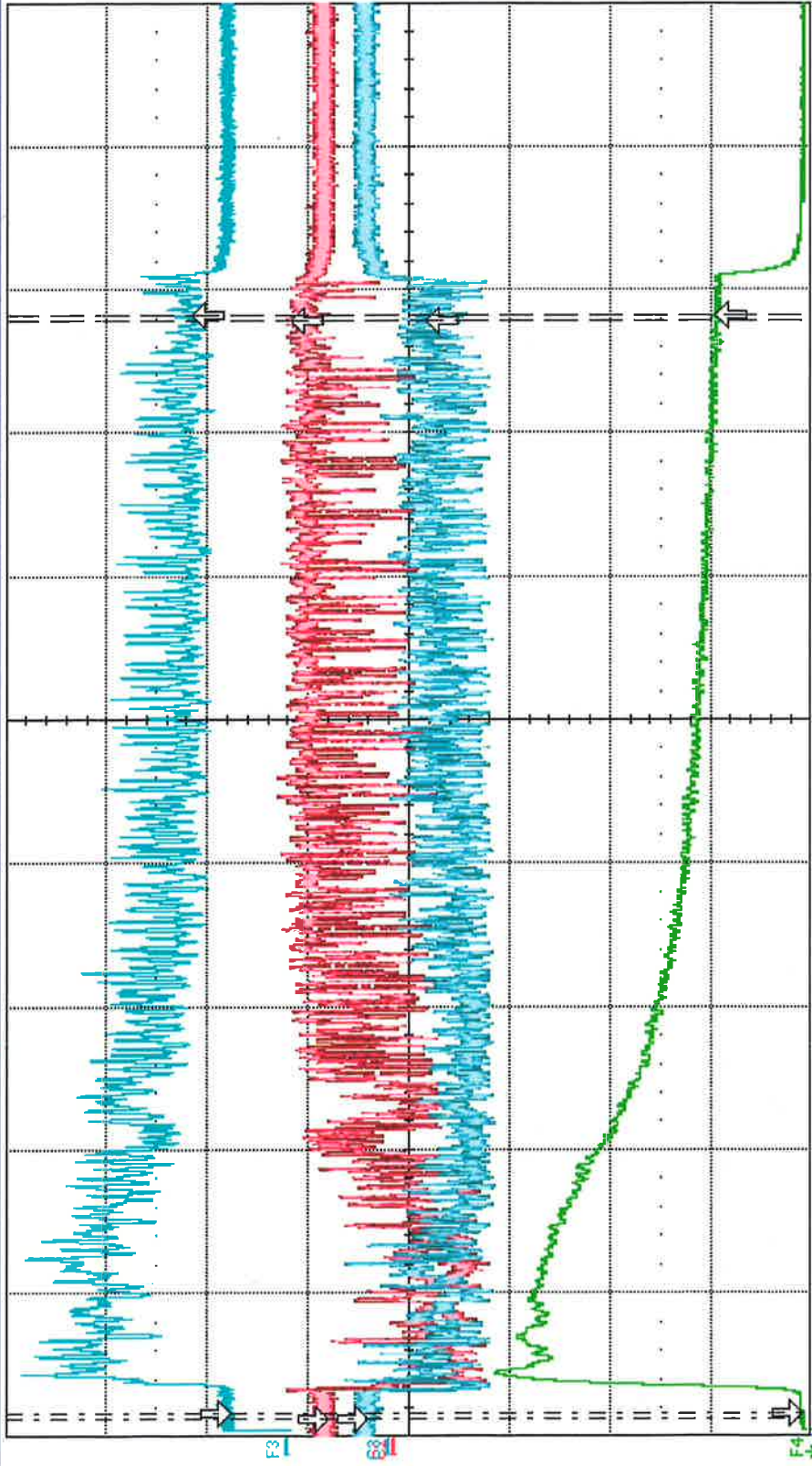
TELEDYNE LECROY

10/8/2020 2:41:00 PM



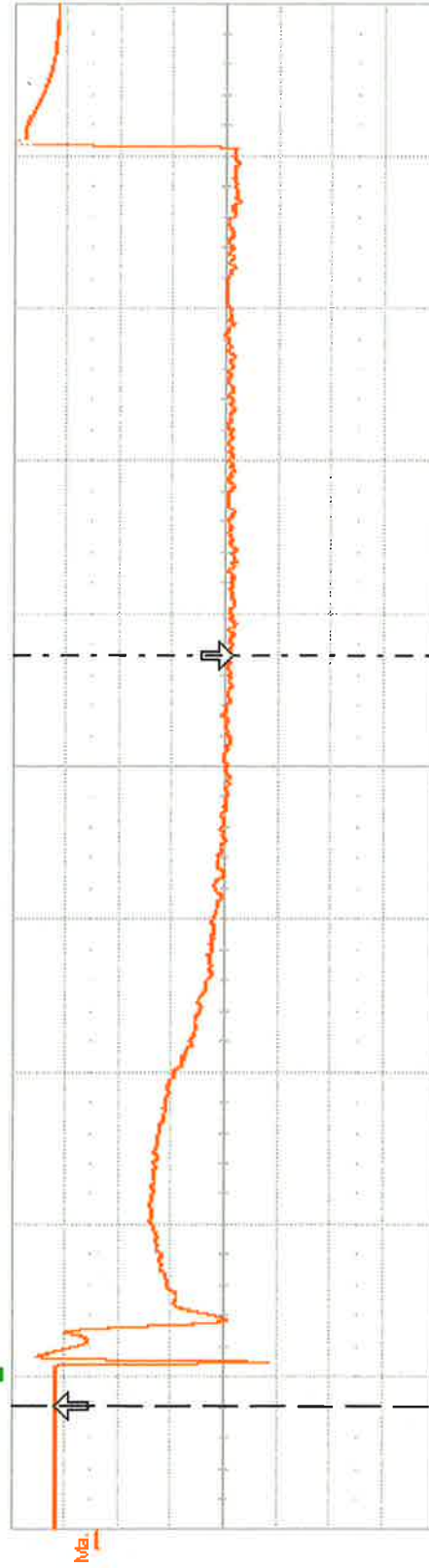
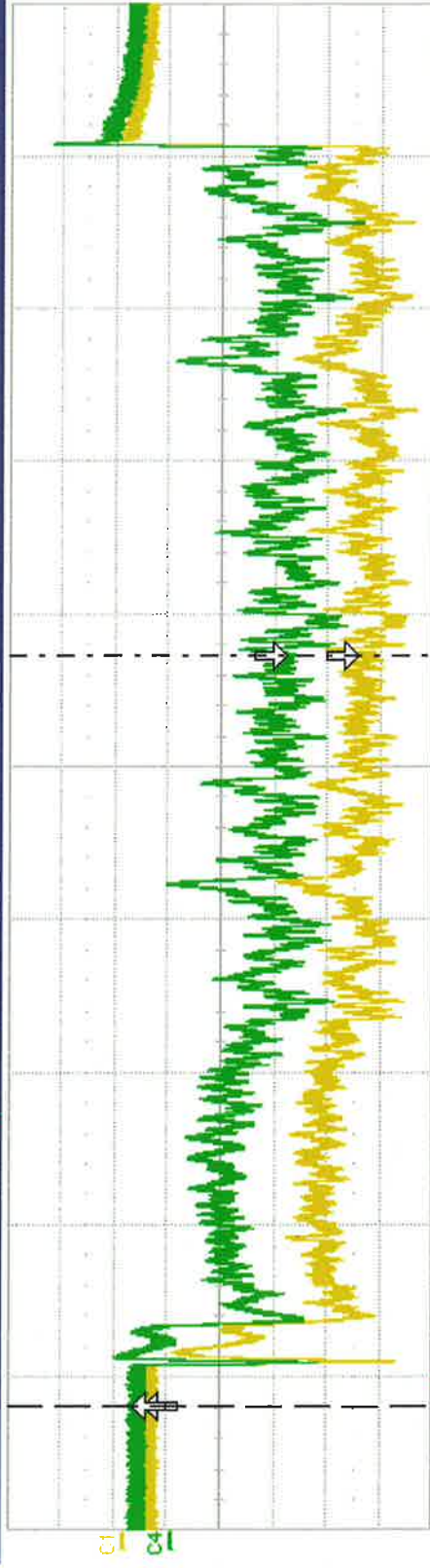
C1	D1Ref	C4	D1Ref	Math	<C1>
5.00 mV/div	5.00 mV/div	5.00 mV/div	5.00 mV/div	4.00 mV/div	4.00 mV/div
9.00 mV ofst	9.00 mV ofst	4.50 mV ofst	4.50 mV ofst	500 μ s/div	500 μ s/div
1	1	1	1	172 #	172 #
Δy	Δy	Δy	Δy	Δy	Δy
-20.36 mV	-20.36 mV	-7.53 mV	-7.53 mV	-21.7868 mV	-21.7868 mV
-3.06 mV	-3.06 mV	2.45 mV	2.45 mV	-2.3655 mV	-2.3655 mV
17.30 mV	17.30 mV	9.98 mV	9.98 mV	19.4228 mV	19.4228 mV

Timebase	-1.99 ms	Trigger	Ext10 DC
2.00 MS	500 μ s/div	Normal	700 mV
	400 MS/s	Edge	Negative
X1=	2.349145 ms	$\Delta X=$	-2.452785 ms
X2=	-103.840 μ s	1/ $\Delta X=$	-407.6998 Hz



Tbase	-2.50 ms	Trigger	Ext10	DC
WStream	500 μ s	Normal	30 mV	
50.0 kS	10 MS/s	Edge	Negative	
X1=	63.5 μ s	Δ X=	3.8298 ms	
X2=	3.8933 ms	1/ Δ X=	261.110 Hz	

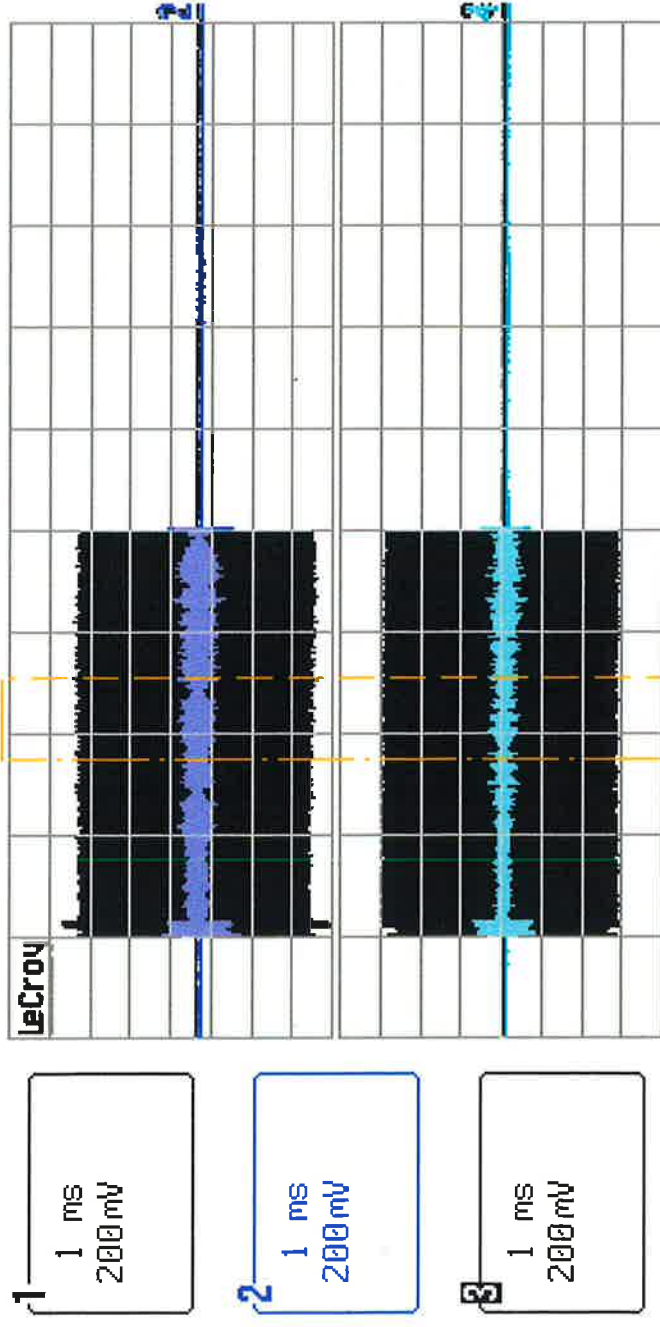
C2	DC1M	500 mV/div	75 mV offset	337 mV	497 mV	160 mV	Δ y
C3	DC1M	500 mV/div	100 mV offset	113 mV	-192 mV	-306 mV	Δ y
F3	script(C3,C2)	2.00/div	500 μ s/div	1.148	1.840	692e-3	Δ y
F4	<F3>	1.00/div	500 μ s/div	382 #	1.11333	1.95019	Δ y



C1	DCIM	C4	DCIM	Math	<C4>
5.00 mV/div	5.00 mV/div	5.00 mV/div	4.00 mV/div		
9.00 mV ofst	9.00 mV ofst	4.50 mV ofst	500 μ s/div		
-21.81 mV	-21.81 mV	-10.53 mV	199 #		
-2.06 mV	-2.06 mV	3.56 mV			
19.75 mV	19.75 mV	14.09 mV			

Timebase	-1.99 ms	Trigger	Ext.10	DC
500 μ s/div	Normal	Edge	700 mV	Negative
2.00 MS	400 MS/s			
X1=	2.349145 ms	$\Delta X=$	-2.452785 ms	
X2=	-103.640 μ s	1/ $\Delta X=$	-407.6998 Hz	

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383 sweeps:				
	average	low	high	sigma
rms(1)	407.7mV	403.0	412.9	1.8
rms(2)	43.8mV	27.5	51.9	2.7
rms(3)	400.7mV	398.2	403.8	1.2
rms(4)	31.8mV	26.8	36.7	1.6
phase(1,3)	0.07 k°	0.03	0.13	0.04

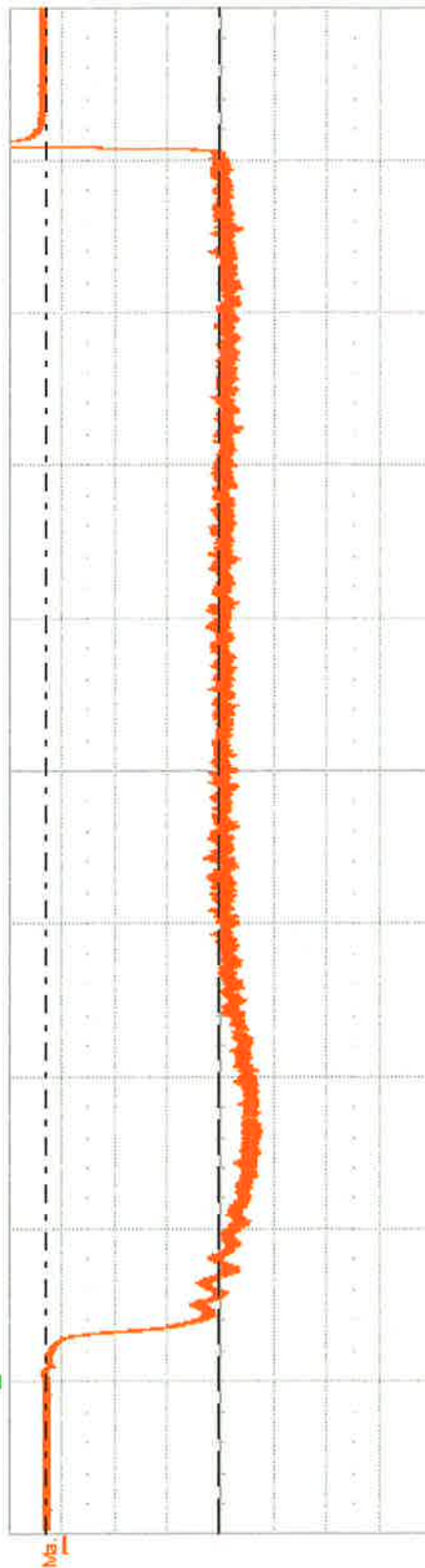
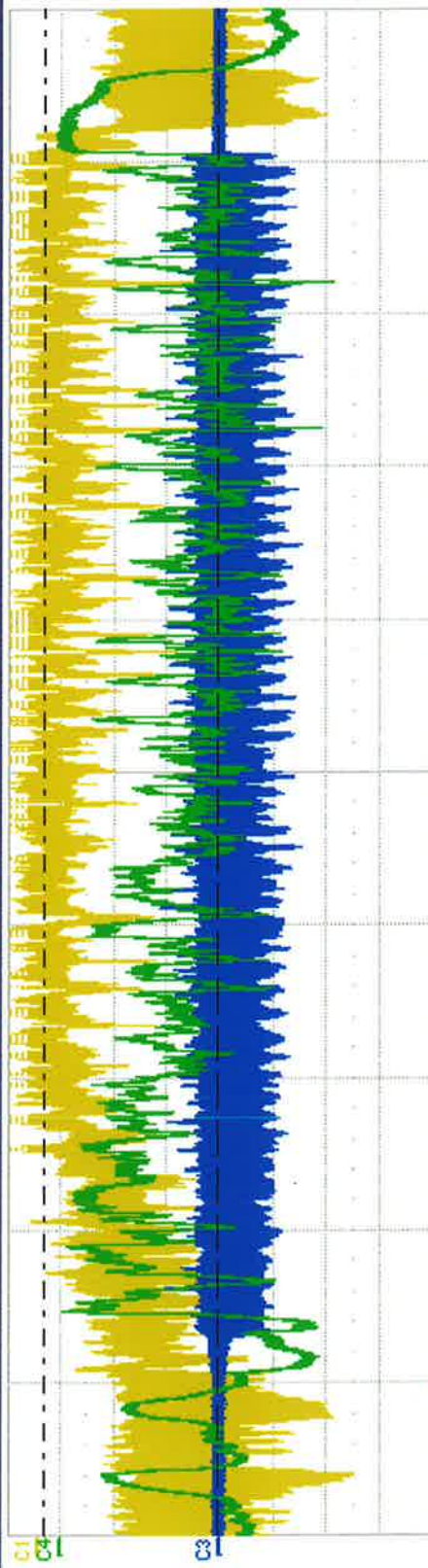
1 ms

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

10 MS/s

Ext10 DC 0.15 V 50Ω

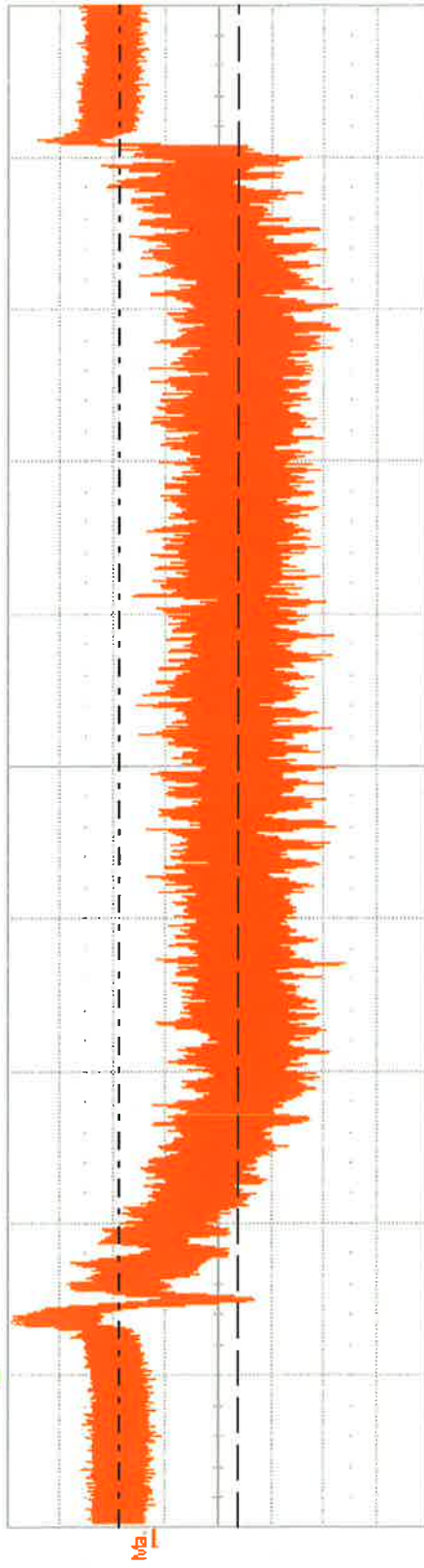
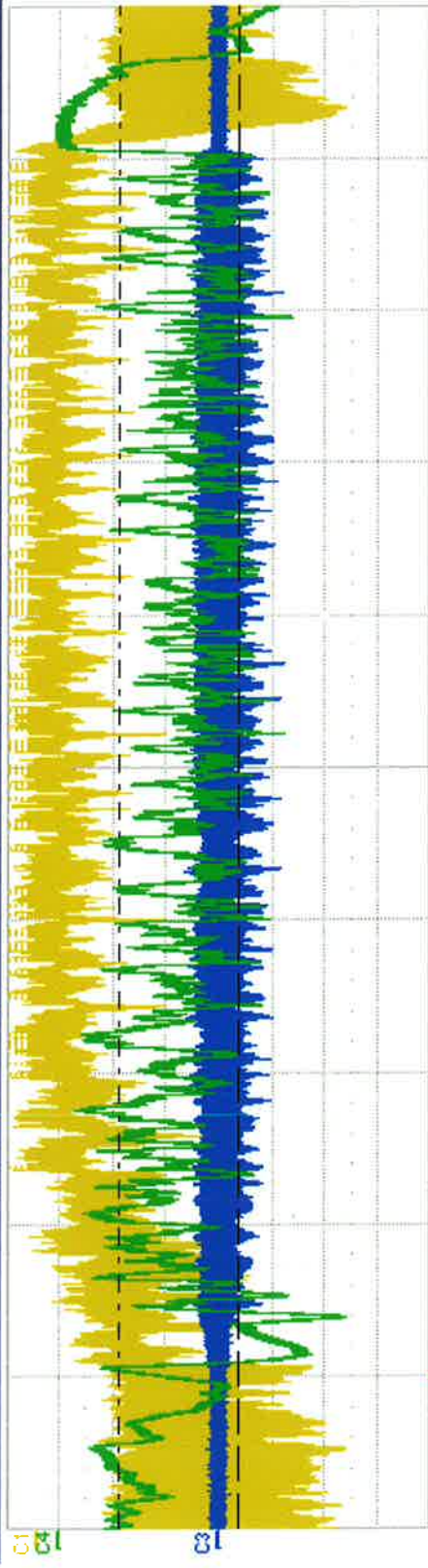
☐ NORMAL



D21
curving
(P₁ to P₂)
A₁ to A₂

C1	DCTIME	C3	B3	C4	DCTIME	Math	<C3>
---	200 mV/div	---	10.0 A/div	---	100 V/div	---	500 mA/div
---	680.0 mV offset	---	0.00 A offset	---	300.0 V offset	---	500 μA/div
---	---	---	---	---	---	---	3.338 kΩ
---	-18 mV	---	33.1 A	---	31 V	---	193 mA
---	-670 mV	---	500 mA	---	-295 V	---	-1.448 A
Δy	-652 mV	Δy	-32.6 A	Δy	-326 V	Δy	-1.830 A

Timebase	-2.00 ms
	500 μ s/div
	200 MS/s
Trigger	Normal
	700 mV
	Negative
	Edge



DL2
current

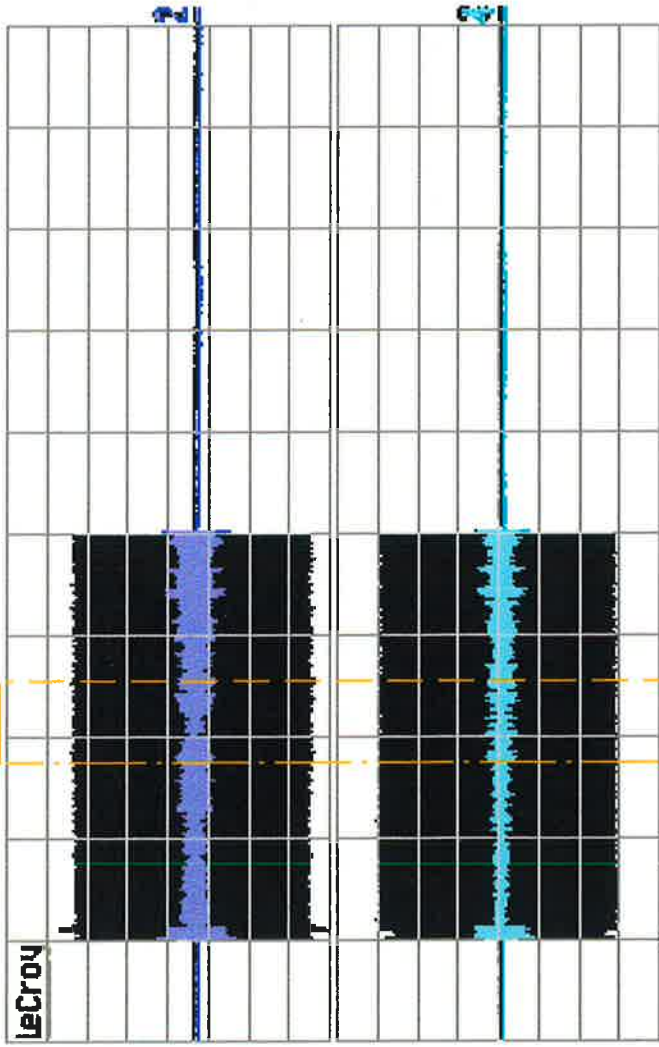
Timebase -2.00 ms
500 μ s/div
1.00 MS
200 MS/s

Trigger Edge
Normal
Edge
Negative

Ex710 DG

C1	C2	C3	C4	Math	<C3>
DCIM	DCIM	DCIM	DCIM	Math	<C3>
200 mV/div	100 V/div	500 A/div	100 V/div	100 mA/div	100 mA/div
680.0 mV offset	300.0 V offset	0.00 A offset	300.0 V offset	500 μ s/div	500 μ s/div
-302 mV	-111 V	9.45 A	-111 V	219 #	219 #
-756 mV	-338 V	-1.90 A	-338 V	68 mA	68 mA
-454 mV	-227 V	-11.35 A	-227 V	-159 mA	-159 mA
Δy	Δy	Δy	Δy	Δy	Δy

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1
1 ms
200 mV

2
1 ms
200 mV

3
1 ms
200 mV

4
1 ms
200 mV

1388 sweeps:

rms(1)	average	low	high	sigma
rms(2)	409.1 mV	403.0	416.0	2.0
rms(3)	44.0 mV	27.5	51.9	2.8
rms(4)	401.2 mV	398.2	404.6	1.3
phase(1,3)	31.7 mV	26.8	37.8	1.6
	0.07 k°	0.03	0.13	0.04

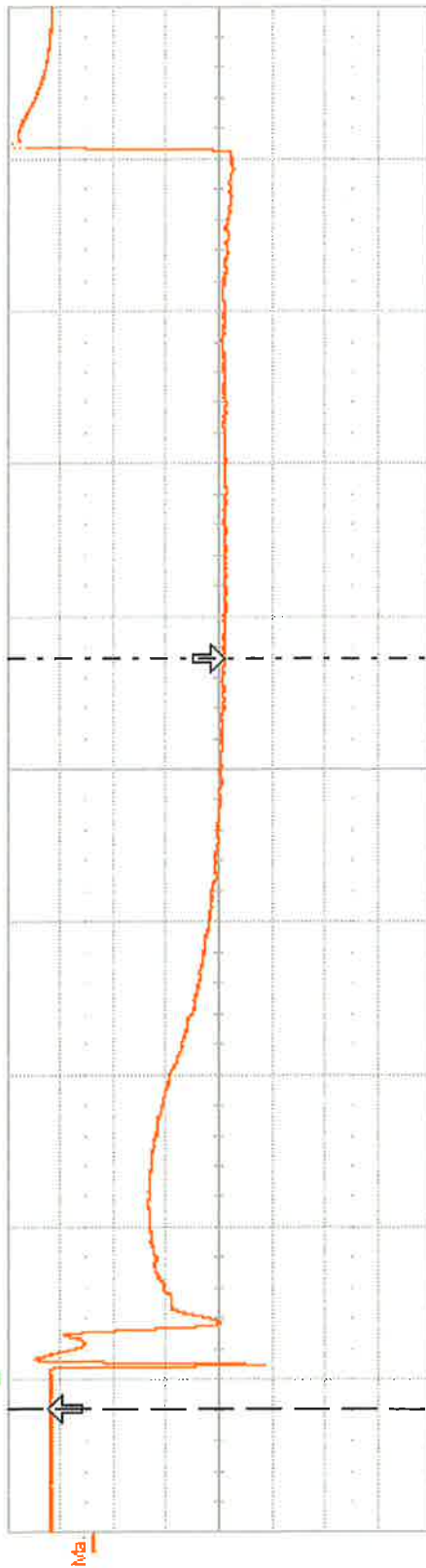
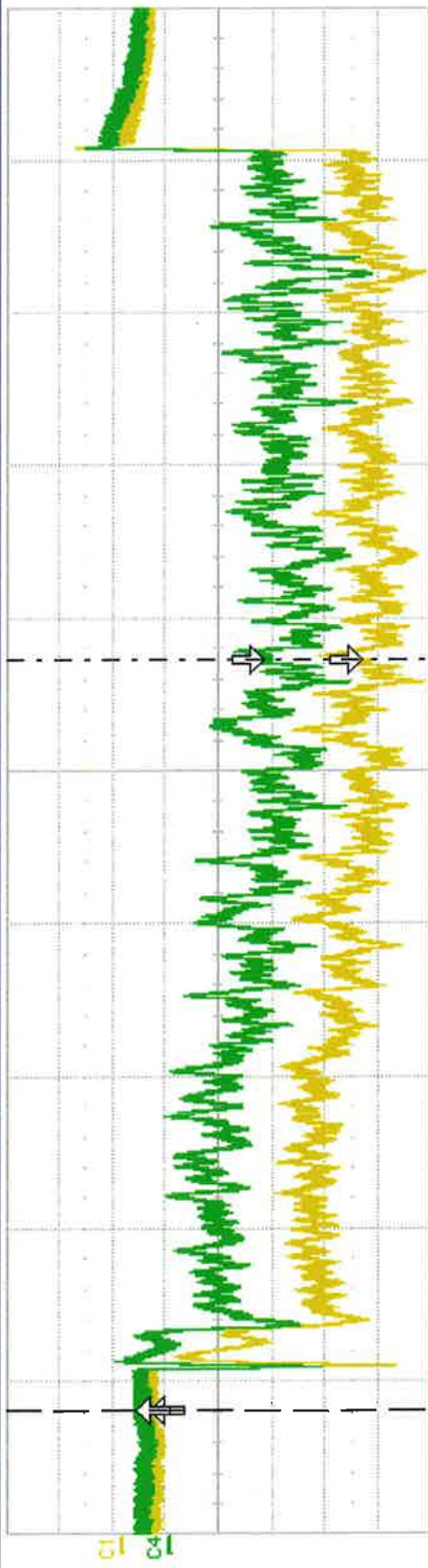
1 ms

- 1 -2 V AC
- 2 -2 V AC
- 3 -2 V AC
- 4 -2 V AC

10 MS/s

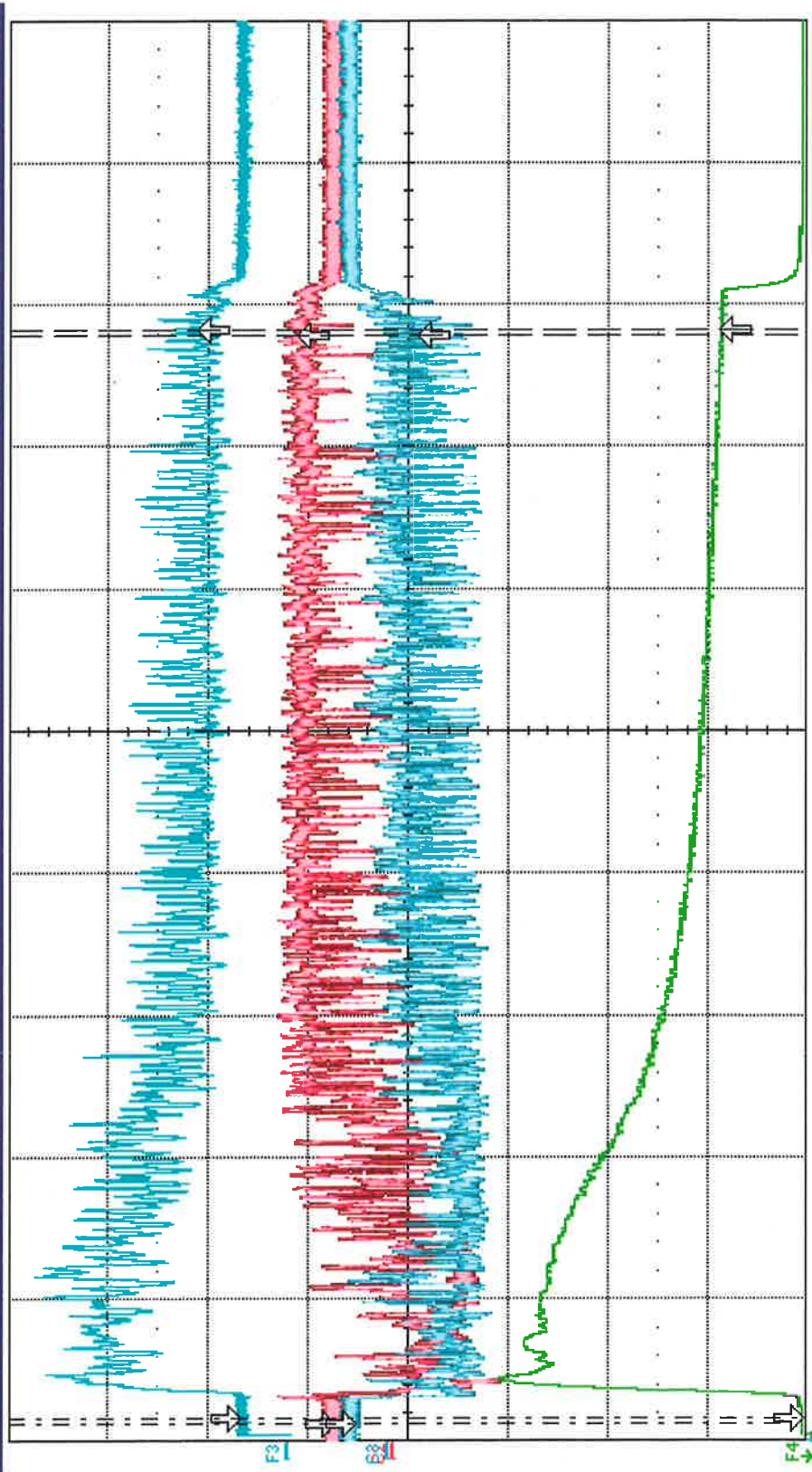
Ext10 DC 0.15 V 50Ω

☐ NORMAL



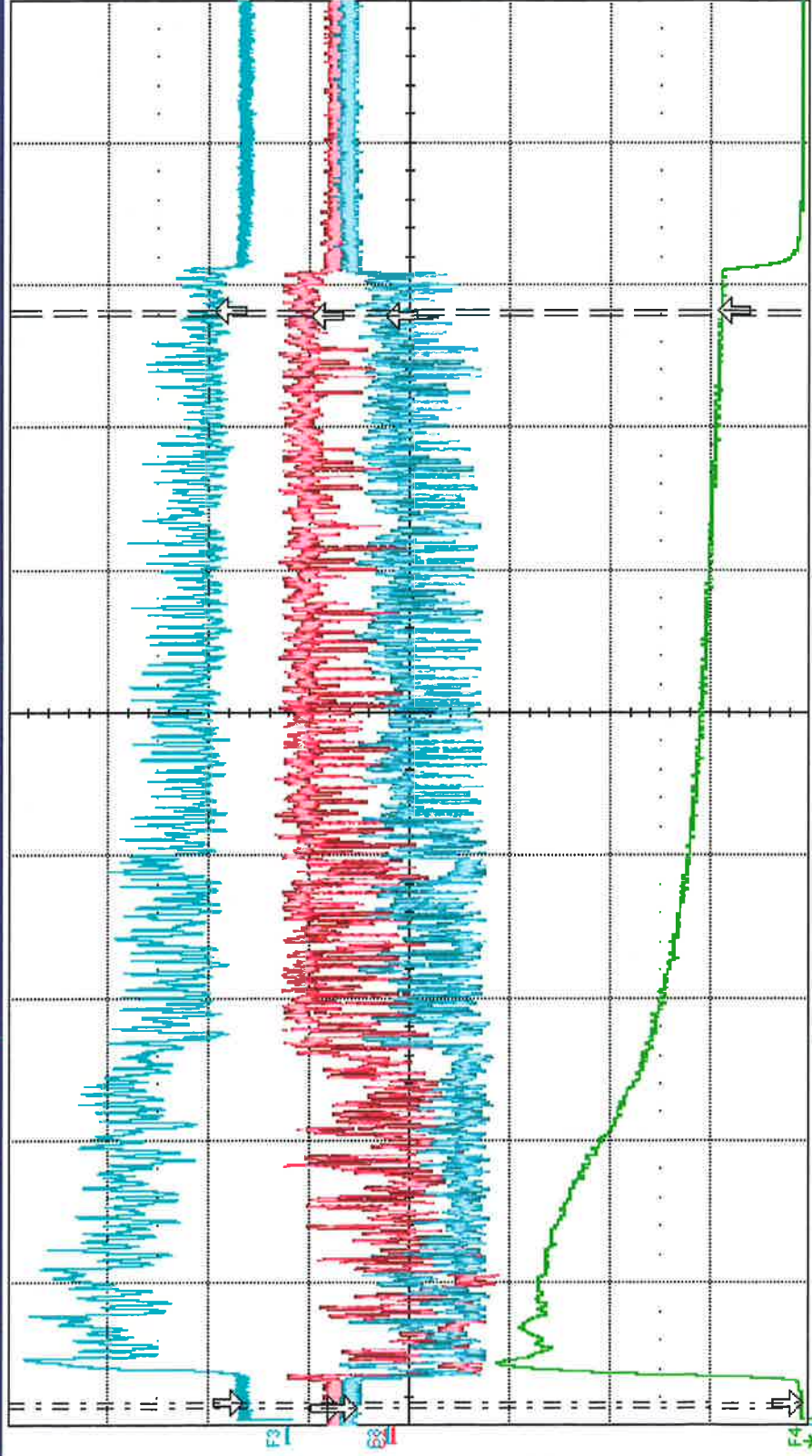
C1	C4	Math	<C4>
5.00 mV/div	5.00 mV/div	4.00 mV/div	4.00 mV/div
9.00 mV ofst	4.50 mV ofst	500 μ s/div	500 μ s/div
-22.31 mV	-8.59 mV	1.212 μ s	1.212 μ s
-2.75 mV	2.94 mV	9.8688 mV	9.8688 mV
19.56 mV	11.53 mV	3.1945 mV	3.1945 mV
Δy	Δy	Δy	Δy

Timebase	-1.99 ms	Trigger	Edge	Normal	700 mV	DC
2.00 MS	500 μ s/div	Normal	Edge	Normal	700 mV	DC
X1=	2.349145 ms	ΔX =	-2.452785 ms			
X2=	-103.640 μ s	1/ ΔX =	-407.6998 Hz			



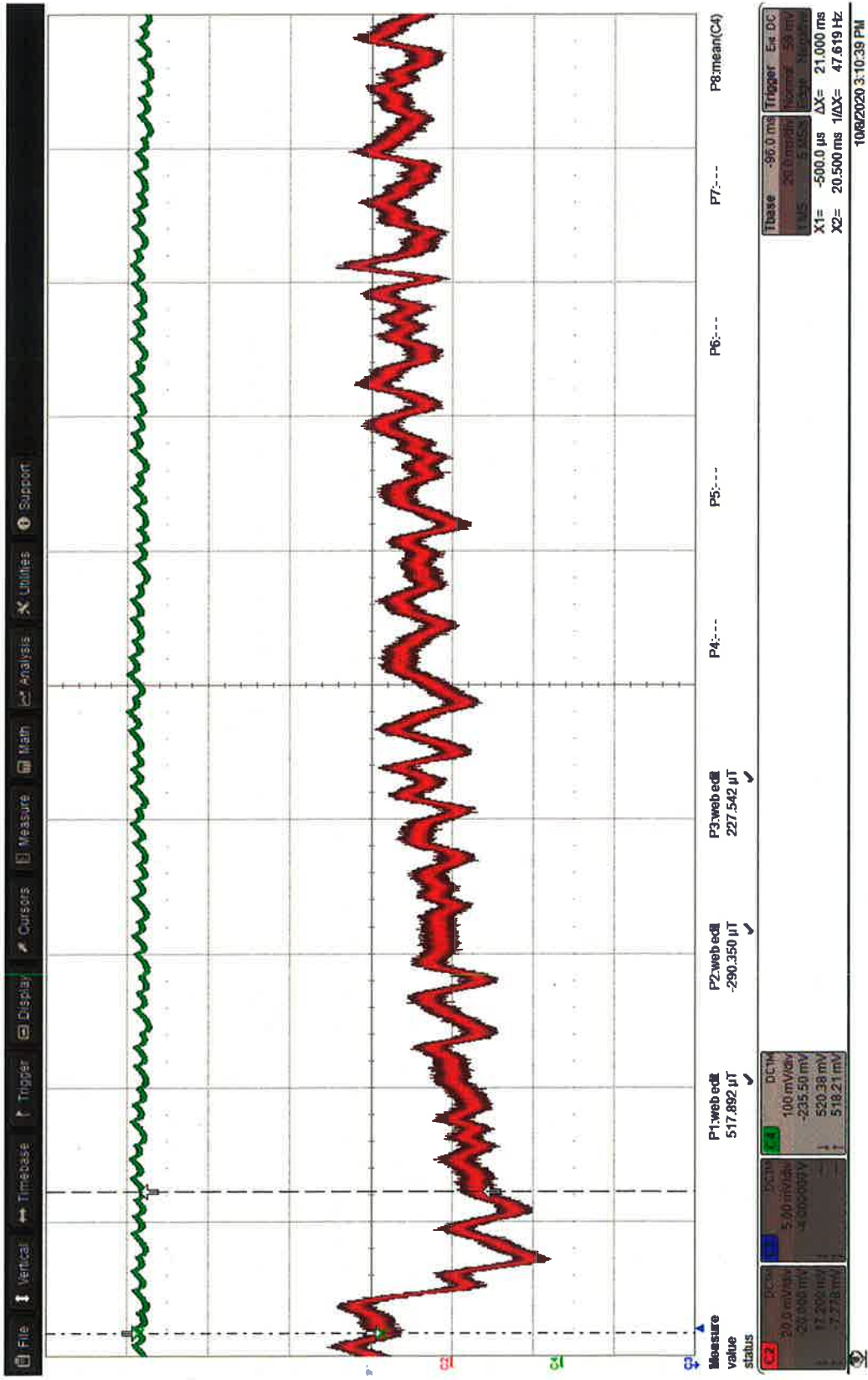
C2	DC1M	500 mV/div 75 mV offset	↓ 297 mV ↑ 471 mV Δy 174 mV
C3	DC1M	500 mV/div 100 mV offset	↓ 172 mV ↑ -154 mV Δy -326 mV
F3	script(C3,C2)	2.00/div 500 μs/div	↓ 945e-3 ↑ 1.787 Δy 842e-3
F4	<F3>	1.00/div 500 μs/div	↓ 1.402 k# ↑ 1.06390 Δy 1.87949

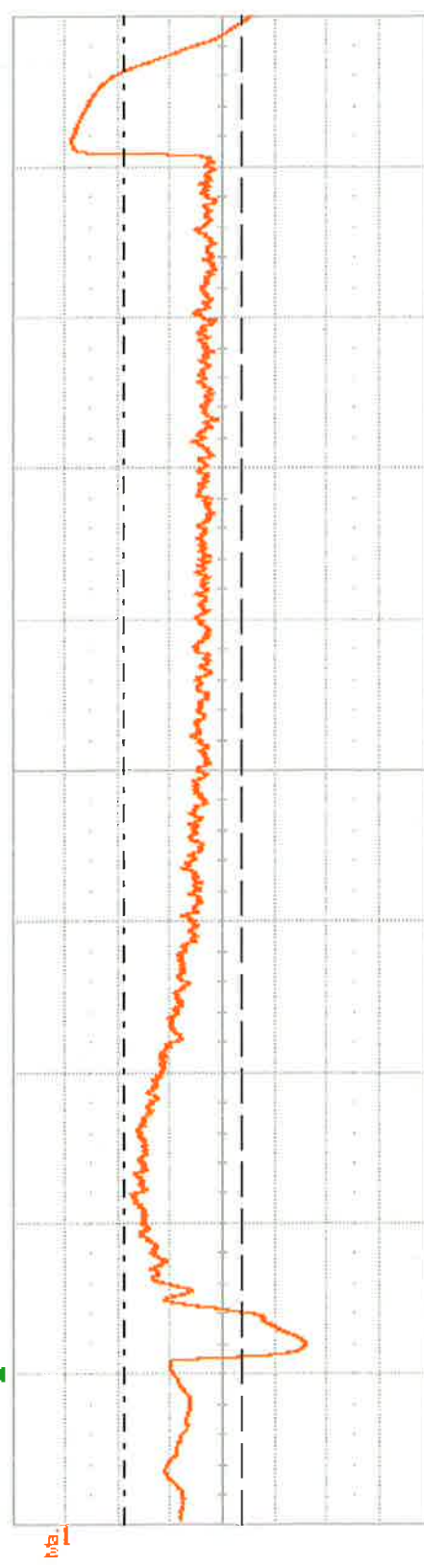
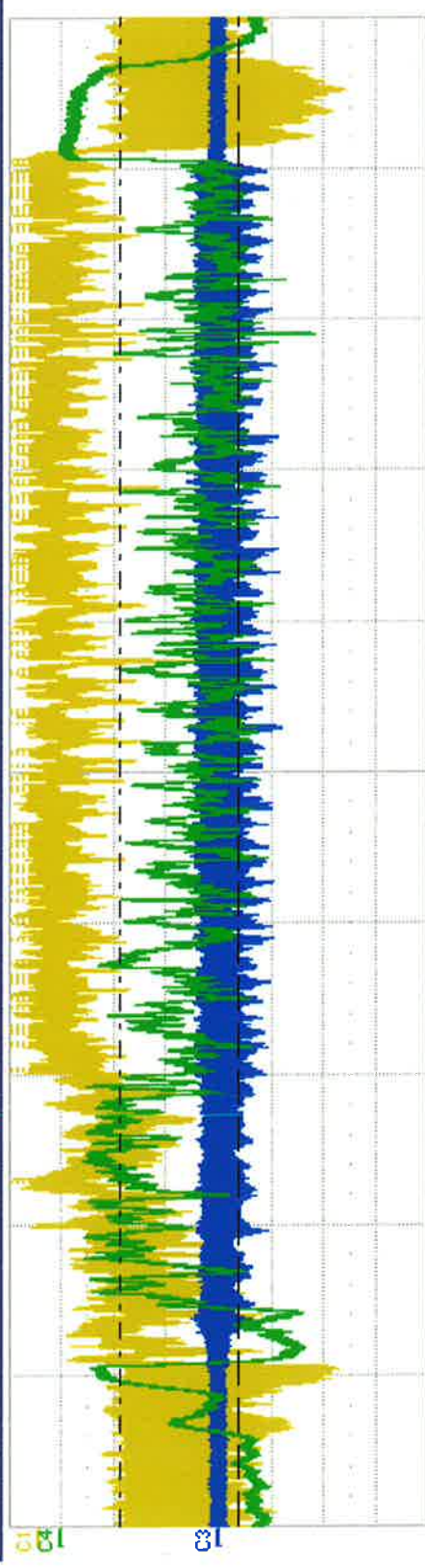
Tbase	-2.50 ms	Trigger	Ext10 DC
WStream	500 μs	Normal	30 mV
50.0 kS	10 MS/s	Edge	Negative
X1=	63.5 μs	ΔX=	3.8298 ms
X2=	3.8933 ms	1/ΔX=	261.110 Hz



C2		C3		F3		F4		F3	
500 mV/div	75 mV offset	500 mV/div	100 mV offset	500 mV/div	100 mV offset	500 mV/div	100 mV offset	500 mV/div	100 mV offset
282 mV	411 mV	172 mV	12 mV	923e-3	1.441	1.518 k#	1.04780	1.518 k#	1.04780
Δy	129 mV	Δy	-160 mV	Δy	518e-3	Δy	811.57e-3	Δy	811.57e-3

Tbase	-2.50 ms	Trigger	Ext10	DC
Waveform	500 μs	Normal	30 mV	
50.0 kS	10 MS/s	Edge	Negative	
X1=	63.5 μs	ΔX=	3.8298 ms	
X2=	3.8933 ms	1/ΔX=	261.110 Hz	





ripple

Timebase -2.00 ms
500 μ s/div
1.00 MS

Trigger Normal
Edge
200 MS/s

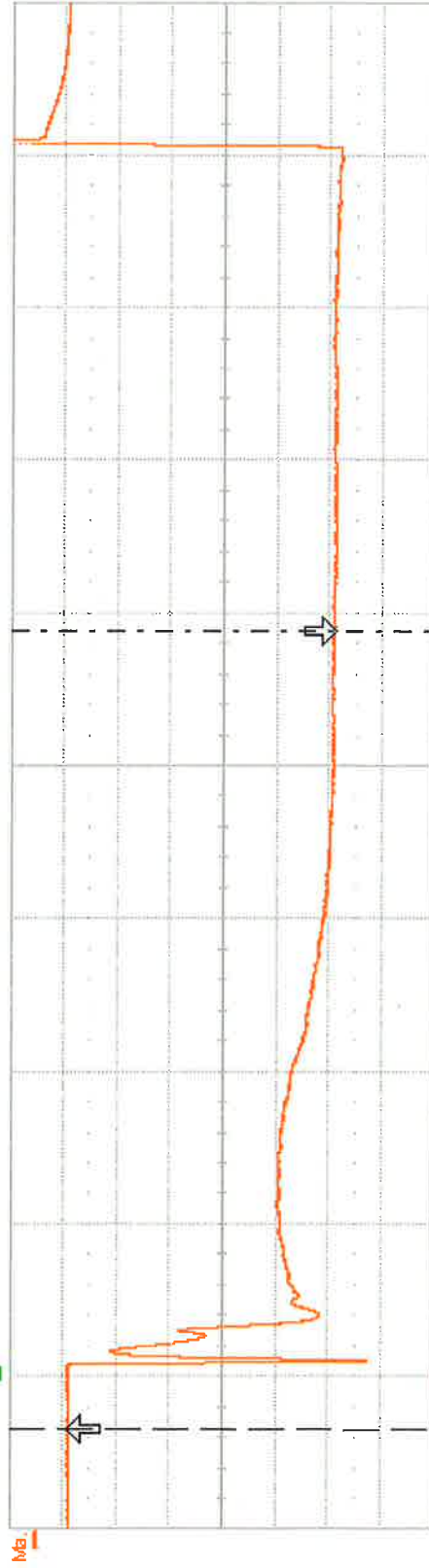
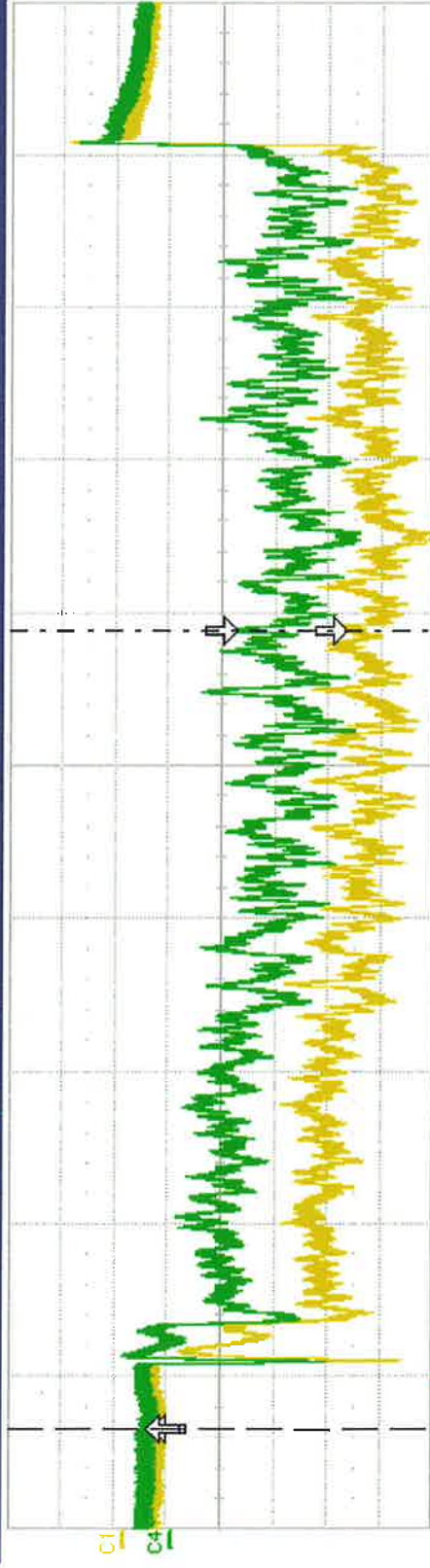
Exz/10 0.0
700 mV
Negative

C1 DCIM 200 mV/div 680.0 mV ofst
--- -302 mV
--- -756 mV
 Δy -454 mV

C3 5.00 A/div 0.00 A ofst
--- 9.45 A
--- -1.90 A
 Δy -11.35 A

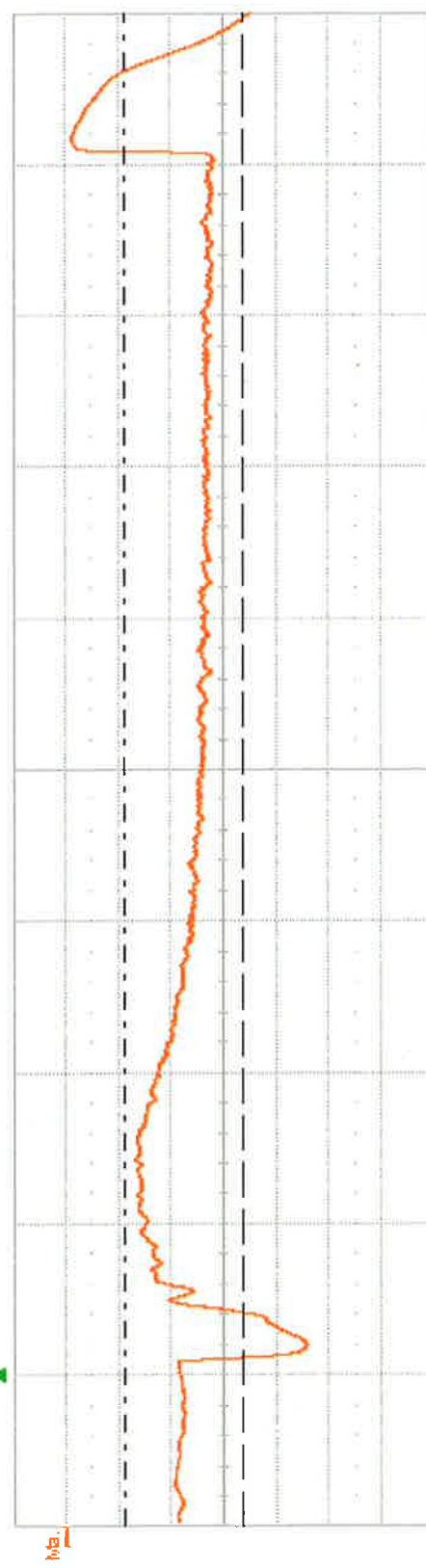
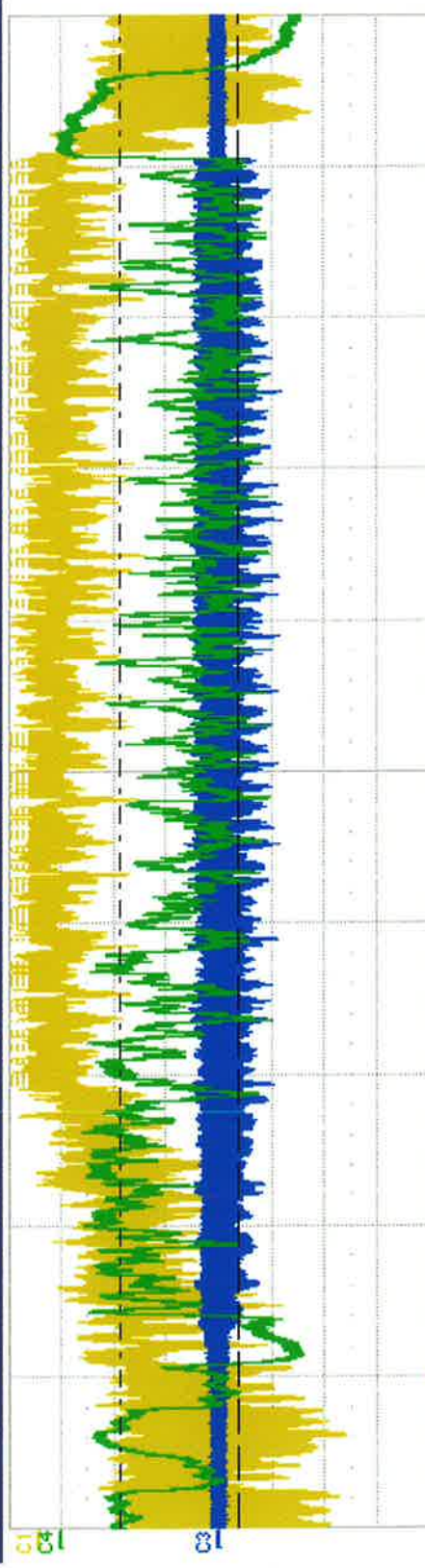
C4 100 V/div 300.0 V ofst
--- -111 V
--- -338 V
 Δy -227 V

Math <C4>
100 V/div 500 μ s/div 66 #
--- -107 V
--- -334 V
 Δy -227 V



C1	DCIM	C4	DCIM	Math	<C1>
5.00 mV/div	5.00 mV/div	5.00 mV/div	5.00 mV/div	4.00 mV/div	4.00 mV/div
9.00 mV ofst	9.00 mV ofst	4.50 mV ofst	4.50 mV ofst	500 μs/div	500 μs/div
↓ -21.03 mV	↓ -21.03 mV	↑ -10.43 mV	↑ -10.43 mV	949 #	949 #
↑ -2.28 mV	↑ -2.28 mV	↑ 3.47 mV	↑ 3.47 mV	Δy	Δy
Δy 18.75 mV	Δy 18.75 mV	Δy 13.90 mV	Δy 13.90 mV		

Timebase	-1.99 ms	Trigger	Edge	700 mV	Negative
2.00 MS	500 μs/div	Normal	Edge	700 mV	Negative
X1=	2.427988 ms	ΔX=	-2.814520 ms		
X2=	-186.533 μs	1/ΔX=	-382.4794 Hz		

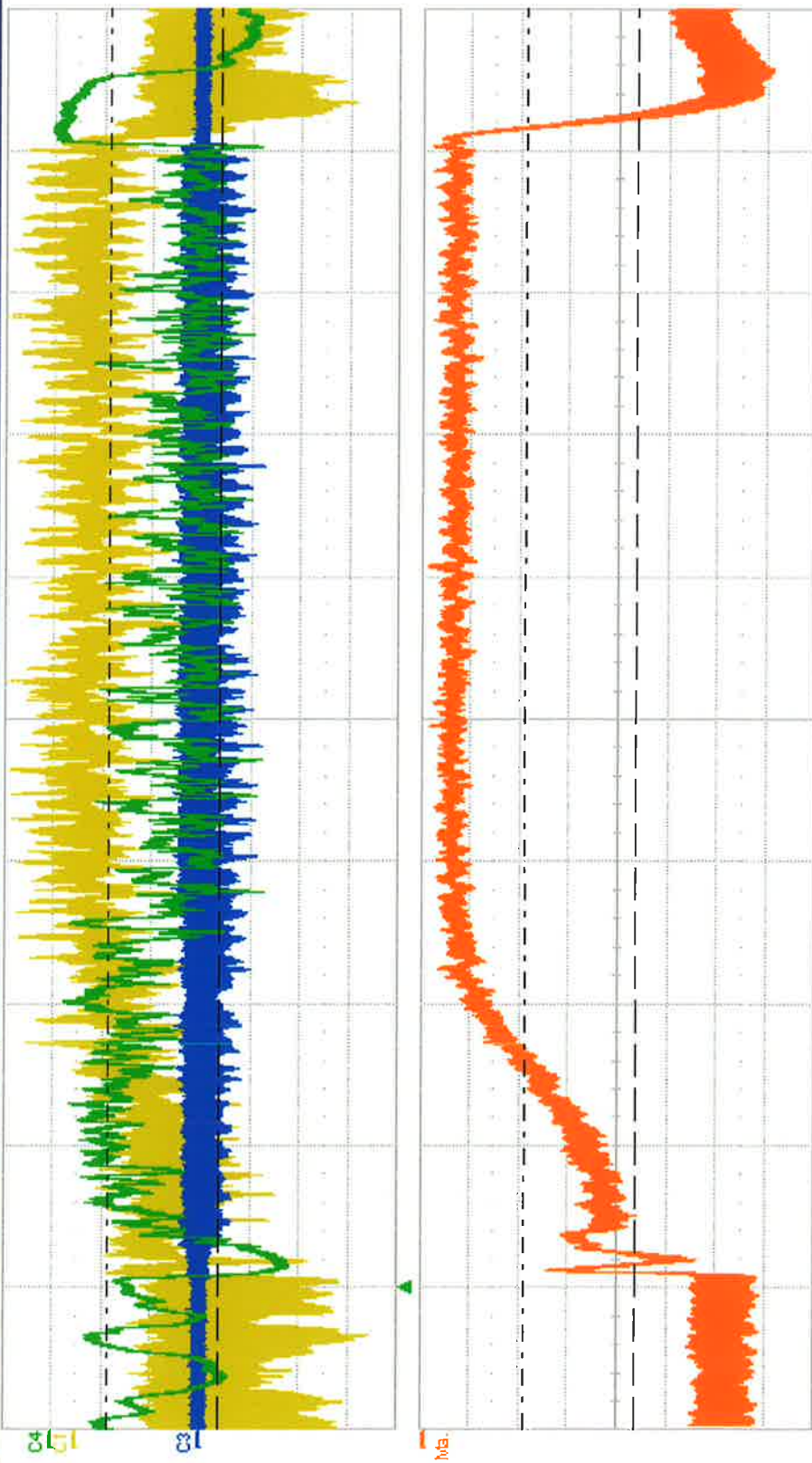


probe

Timebase -2.00 ms
 1.00 MS
 500 μ s/div
 200 MS/s

Trigger Normal
 Edge
 Ext ID DC3
 700 mV
 Negative

Channel	Scale	Offset	Math	Scale	Offset	Math
C1	200 mV/div	680.0 mV ofst	DCIM	5.00 A/div	0.00 A offset	DCIM
C2	302 mV	-756 mV	---	9.45 A	-1.90 A	---
C3	-454 mV	---	---	-11.35 A	---	---
C4	100 V/div	300.0 V offset	---	---	---	---
C5	500 μ s/div	232 #	---	---	---	---
C6	---	---	---	---	---	---
C7	---	---	---	---	---	---
C8	---	---	---	---	---	---
C9	---	---	---	---	---	---
C10	---	---	---	---	---	---
C11	---	---	---	---	---	---
C12	---	---	---	---	---	---
C13	---	---	---	---	---	---
C14	---	---	---	---	---	---
C15	---	---	---	---	---	---
C16	---	---	---	---	---	---
C17	---	---	---	---	---	---
C18	---	---	---	---	---	---
C19	---	---	---	---	---	---
C20	---	---	---	---	---	---
C21	---	---	---	---	---	---
C22	---	---	---	---	---	---
C23	---	---	---	---	---	---
C24	---	---	---	---	---	---
C25	---	---	---	---	---	---
C26	---	---	---	---	---	---
C27	---	---	---	---	---	---
C28	---	---	---	---	---	---
C29	---	---	---	---	---	---
C30	---	---	---	---	---	---
C31	---	---	---	---	---	---
C32	---	---	---	---	---	---
C33	---	---	---	---	---	---
C34	---	---	---	---	---	---
C35	---	---	---	---	---	---
C36	---	---	---	---	---	---
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C90	---	---	---	---	---	---
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C92	---	---	---	---	---	---
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C94	---	---	---	---	---	---
C95	---	---	---	---	---	---
C96	---	---	---	---	---	---
C97	---	---	---	---	---	---
C98	---	---	---	---	---	---
C99	---	---	---	---	---	---
C100	---	---	---	---	---	---



Timebase -2.00 ms
1.00 MS
500 μ s/div
200 MS/s

Trigger Normal
Edge
Exz/10 0.0
700 mV
Negative

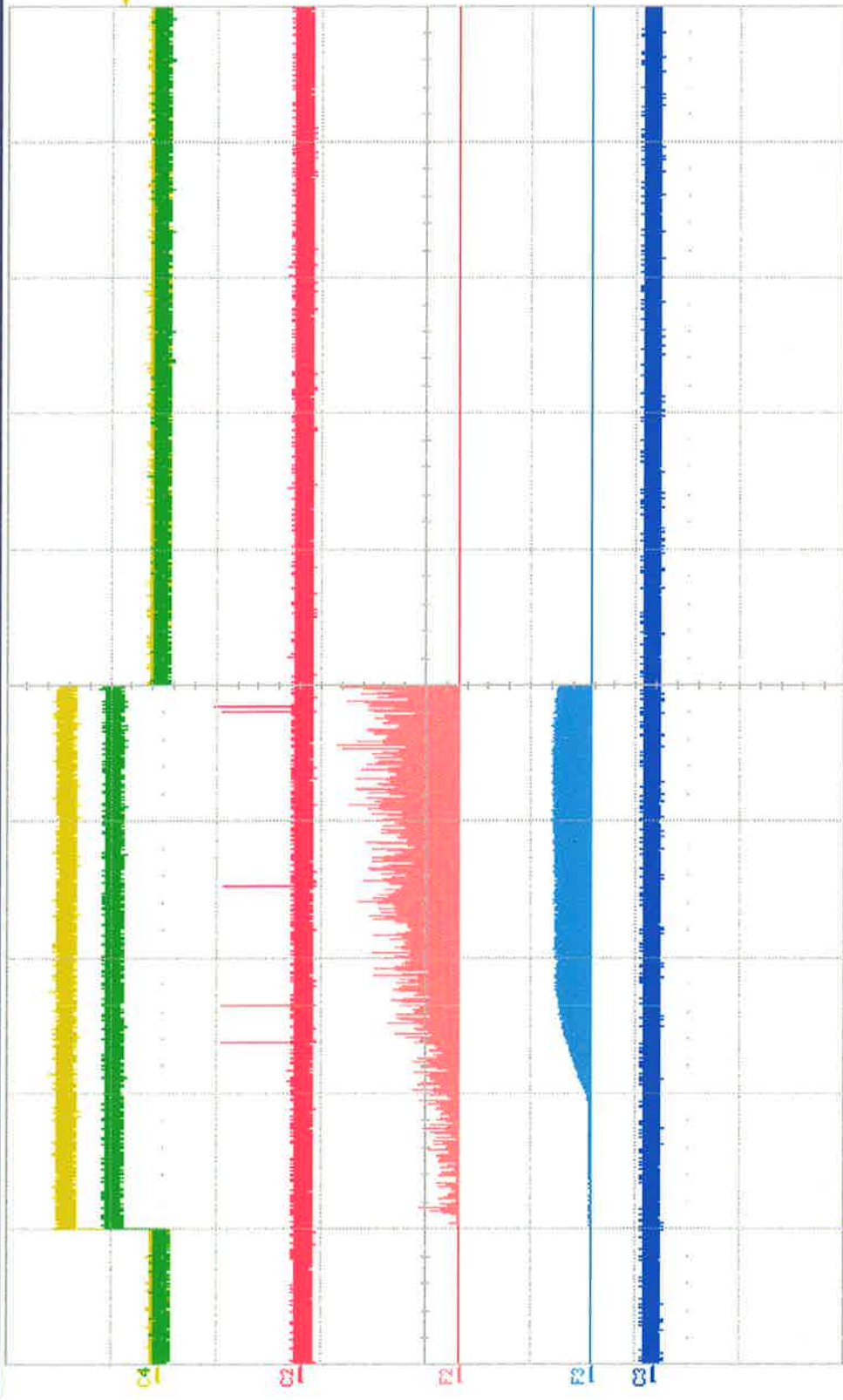
C1 DCIM 200 mV/div
500.0 mV ofst
-122 mV
-576 mV
-454 mV
 Δ y

C3 ES 5.00 A/div
0.00 A offset
9.45 A
-1.90 A
-11.35 A
 Δ y

C4 EXCHD 100 V/div
300.0 V offset
-111 V
-336 V
-227 V
 Δ y

Math <C1> 100 mV/div
500 μ s/div
57 #
-201 mV
-428 mV
-227 mV
 Δ y

Cop



Thase -4.00 ms Trigger C1 DC
 1.00 ms/div Normal 1.65 V
 500 kS 50 MS/s Edge Positive

F3 peris...
 50.0 k#
 1.0 ms
 5.0 M#

F2 peris...
 100 #
 1.0 ms
 19.7 k#

C4 D1
 10.0 V
 25.30 V

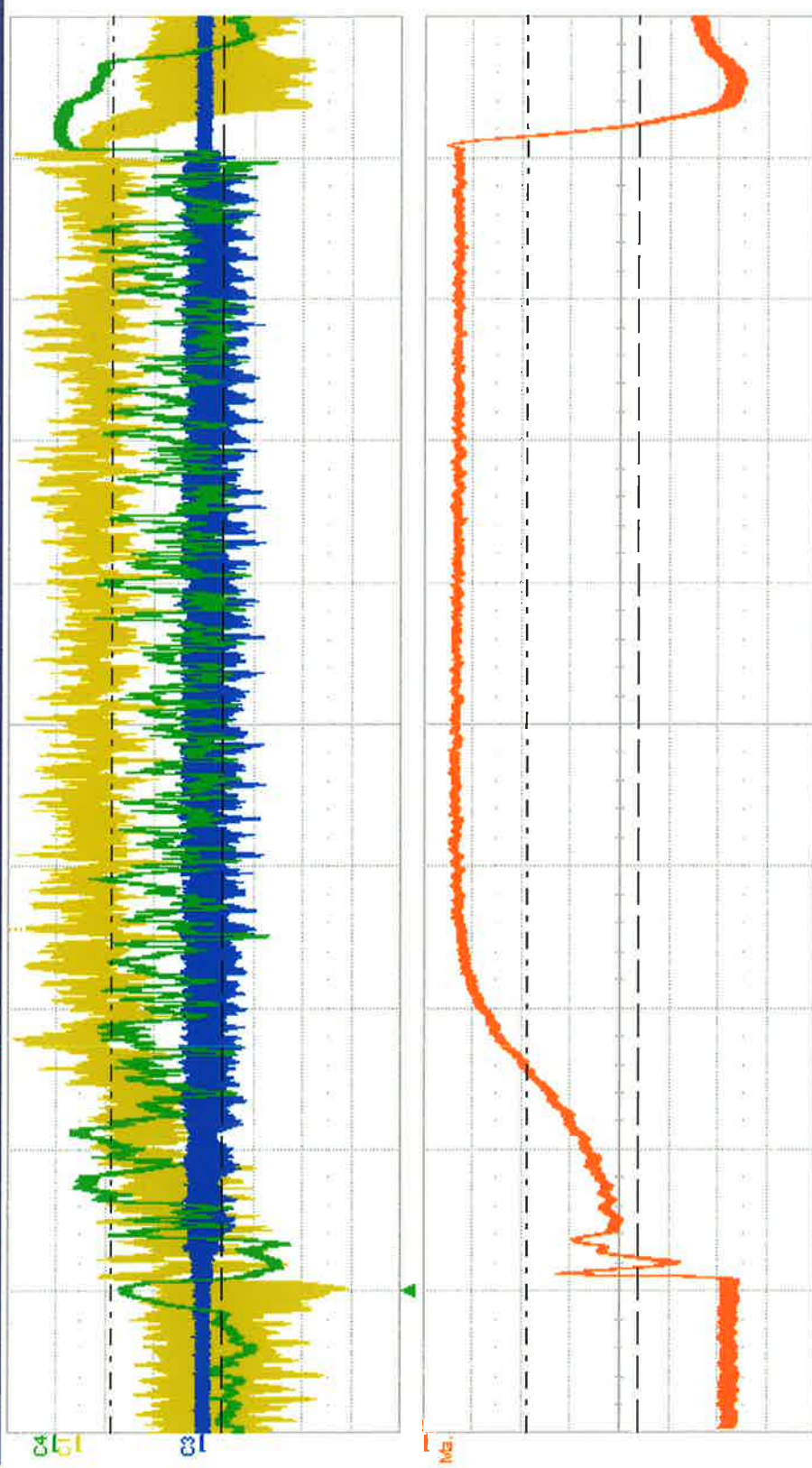
C3 D1
 5.00 V
 -11.0 V

C2 D1
 5.00 V
 5.95 V

C1 D1
 5.00 V
 12.70 V

TELEDYNE LECROY

10/8/2020 3:37:58 PM



Timebase -2.00 ms
500 μ s/div
1.00 MS
Trigger Normal
Edge
Eck/10 DC
700 mV
Negative

C1	C3	C4	Math
DCIM	DCIM	DCIM	<C1>
200 mV/div	5.00 A/div	100 V/div	100 mV/div
500.0 mV orst	0.00 A offset	300.0 V offset	500 μ s/div
---	---	---	57.5 #
---	9.45 A	-111 V	-201 mV
---	-1.90 A	-338 V	-428 mV
Δy	-11.35 A	-227 V	-207 mV