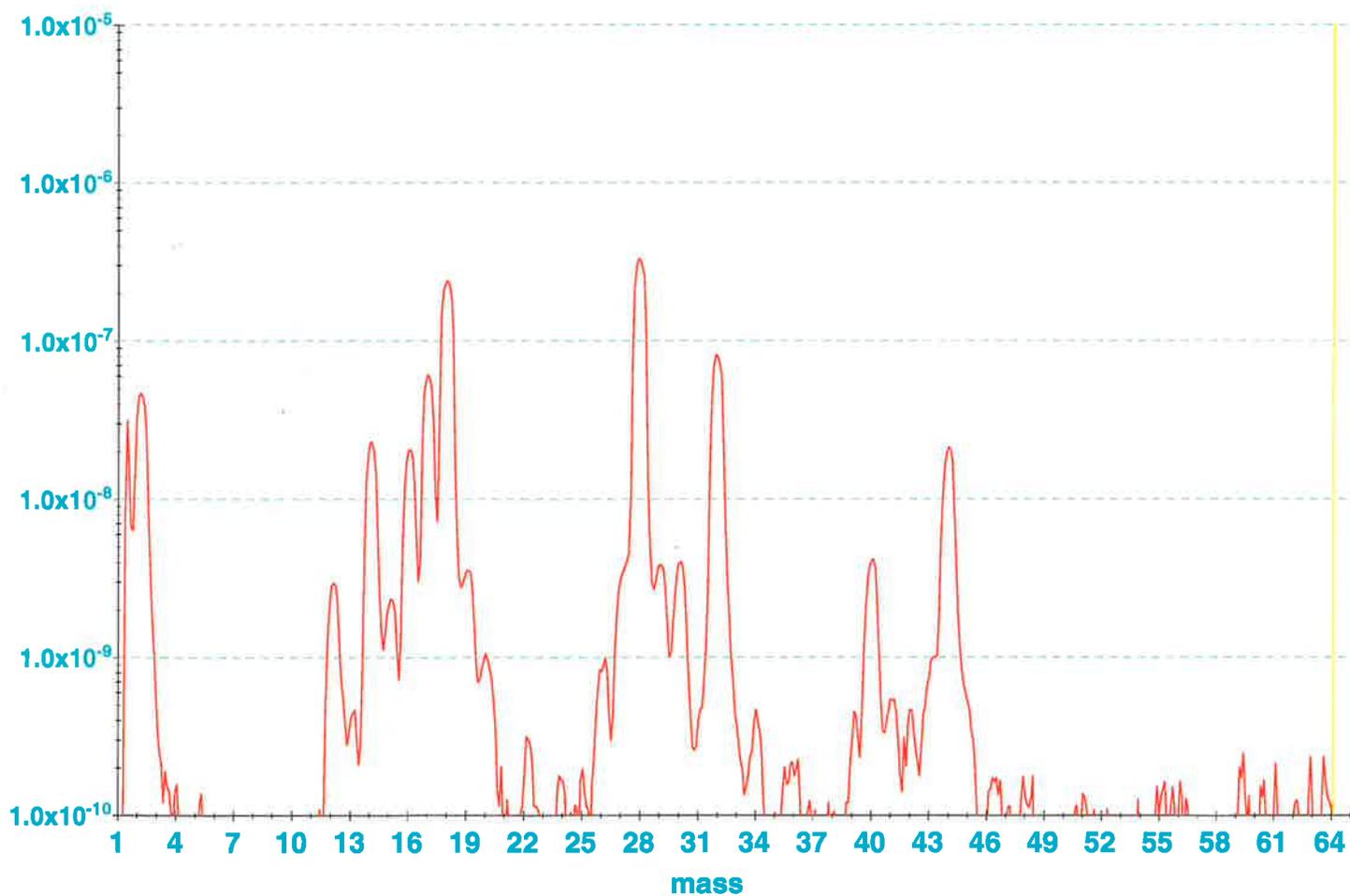


Analog Scan

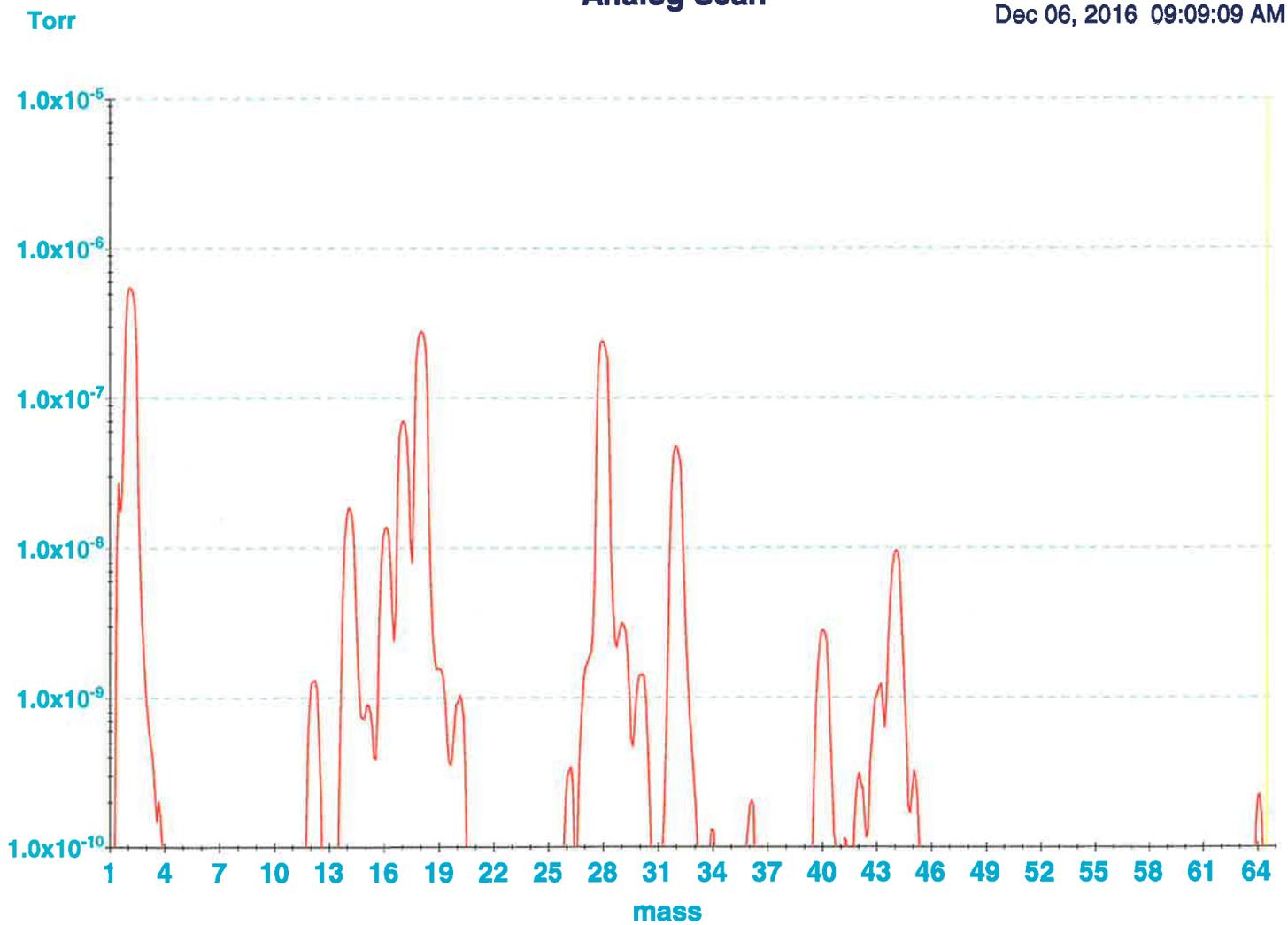
Torr

Dec 06, 2016 08:54:22 AM



Analog Scan

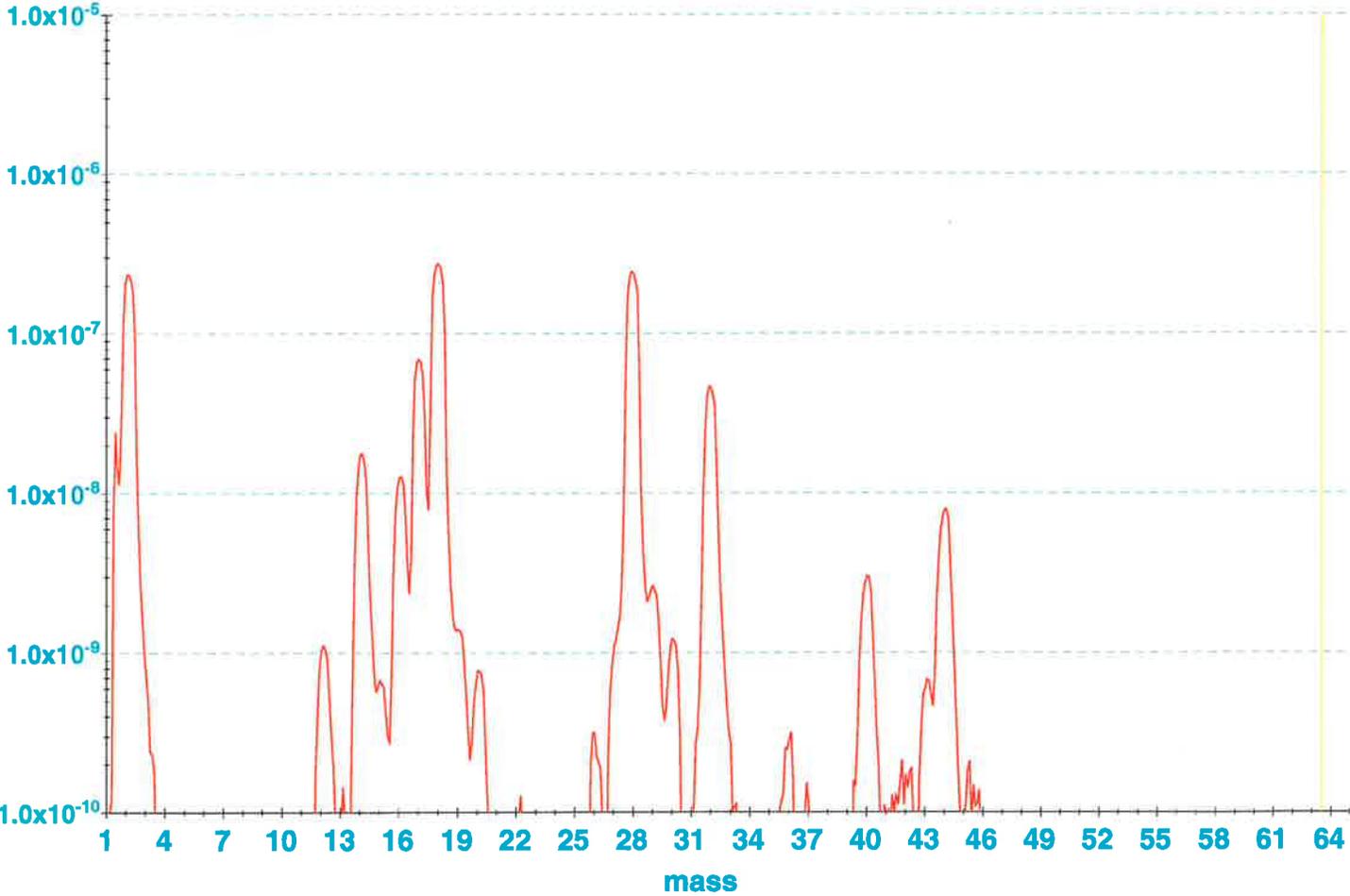
Dec 06, 2016 09:09:09 AM



Analog Scan

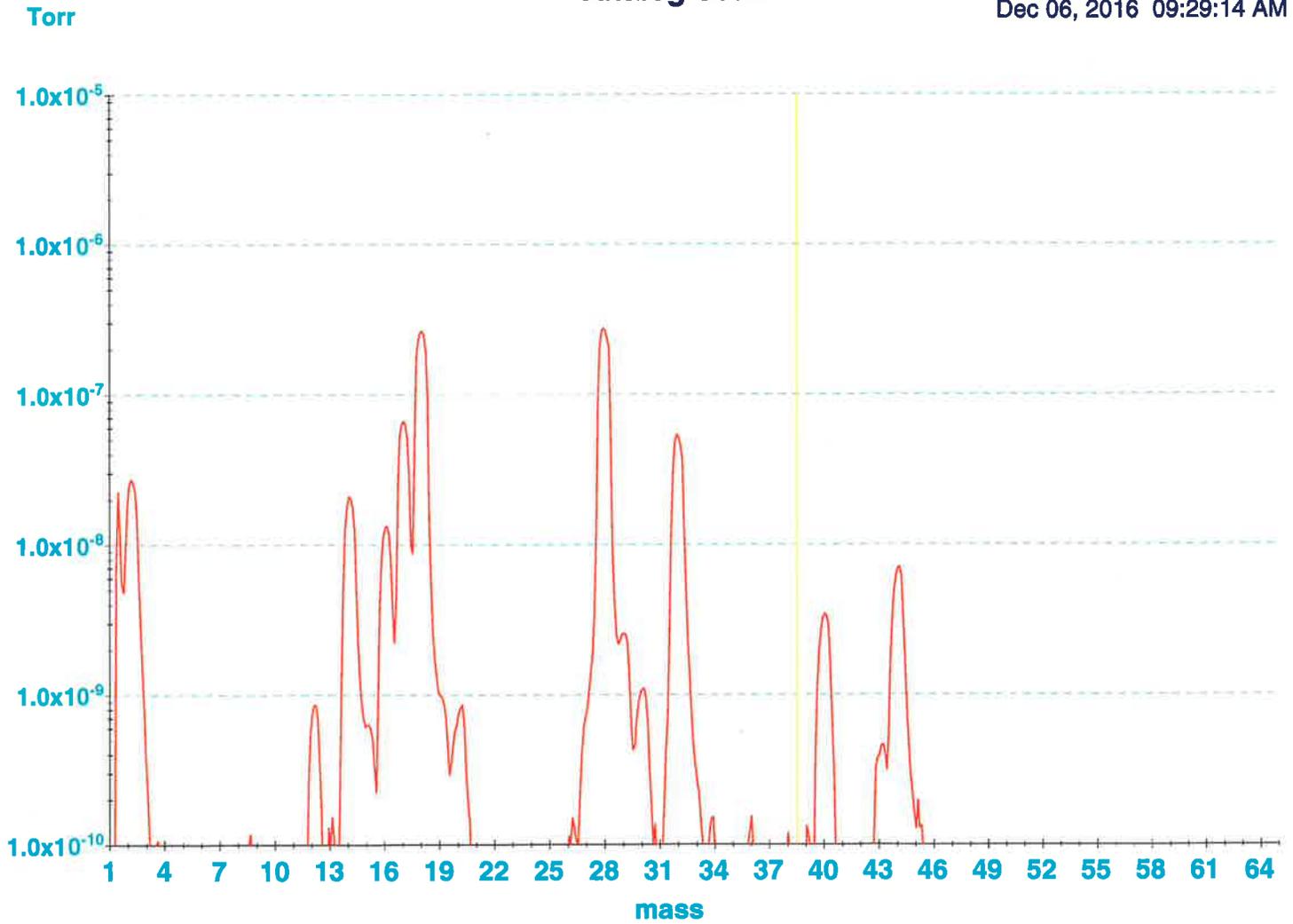
Dec 06, 2016 09:17:16 AM

Torr



Analog Scan

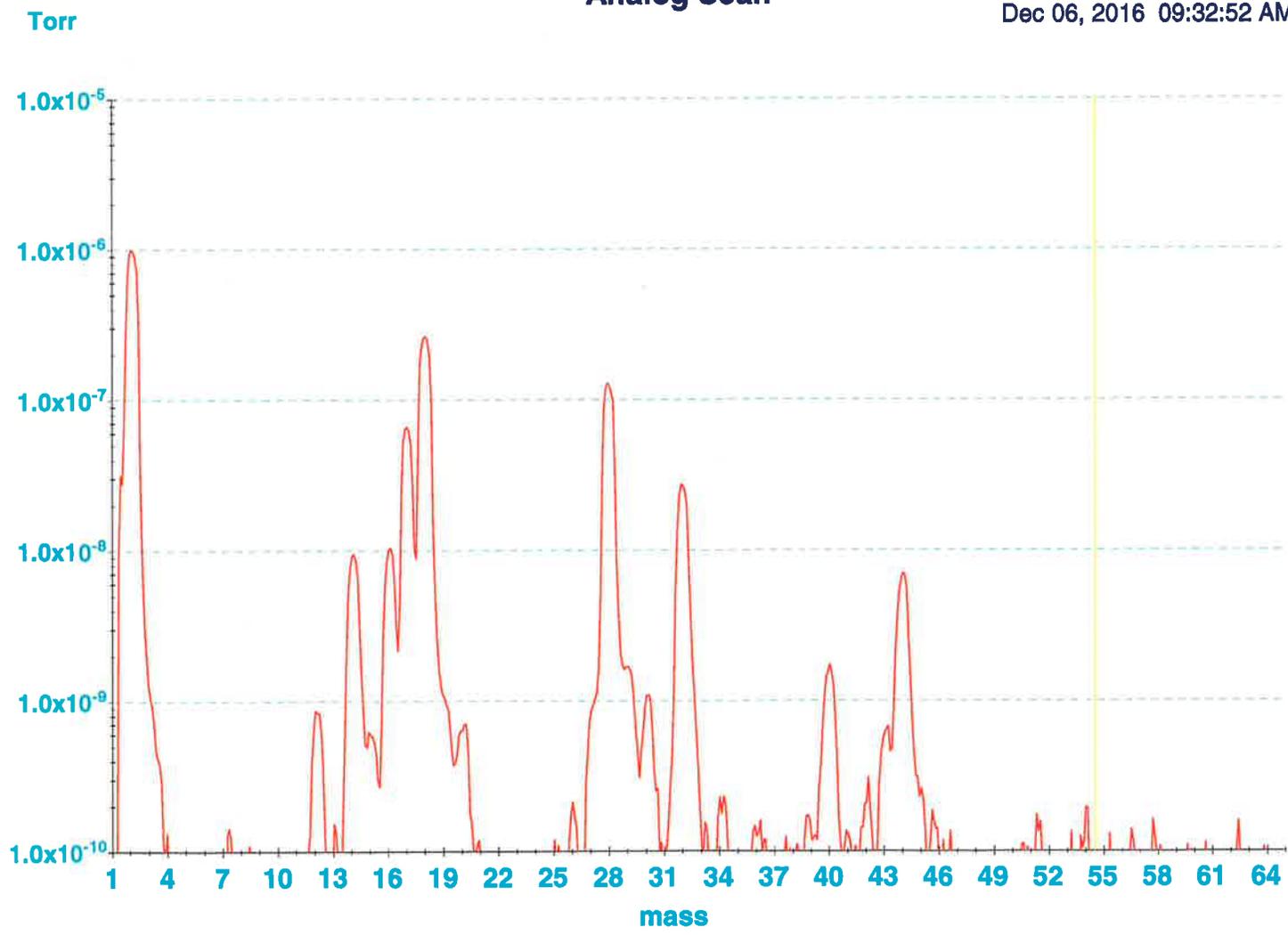
Dec 06, 2016 09:29:14 AM



LOST Ar flow
9:30 turn
Ar flow
on again

Analog Scan

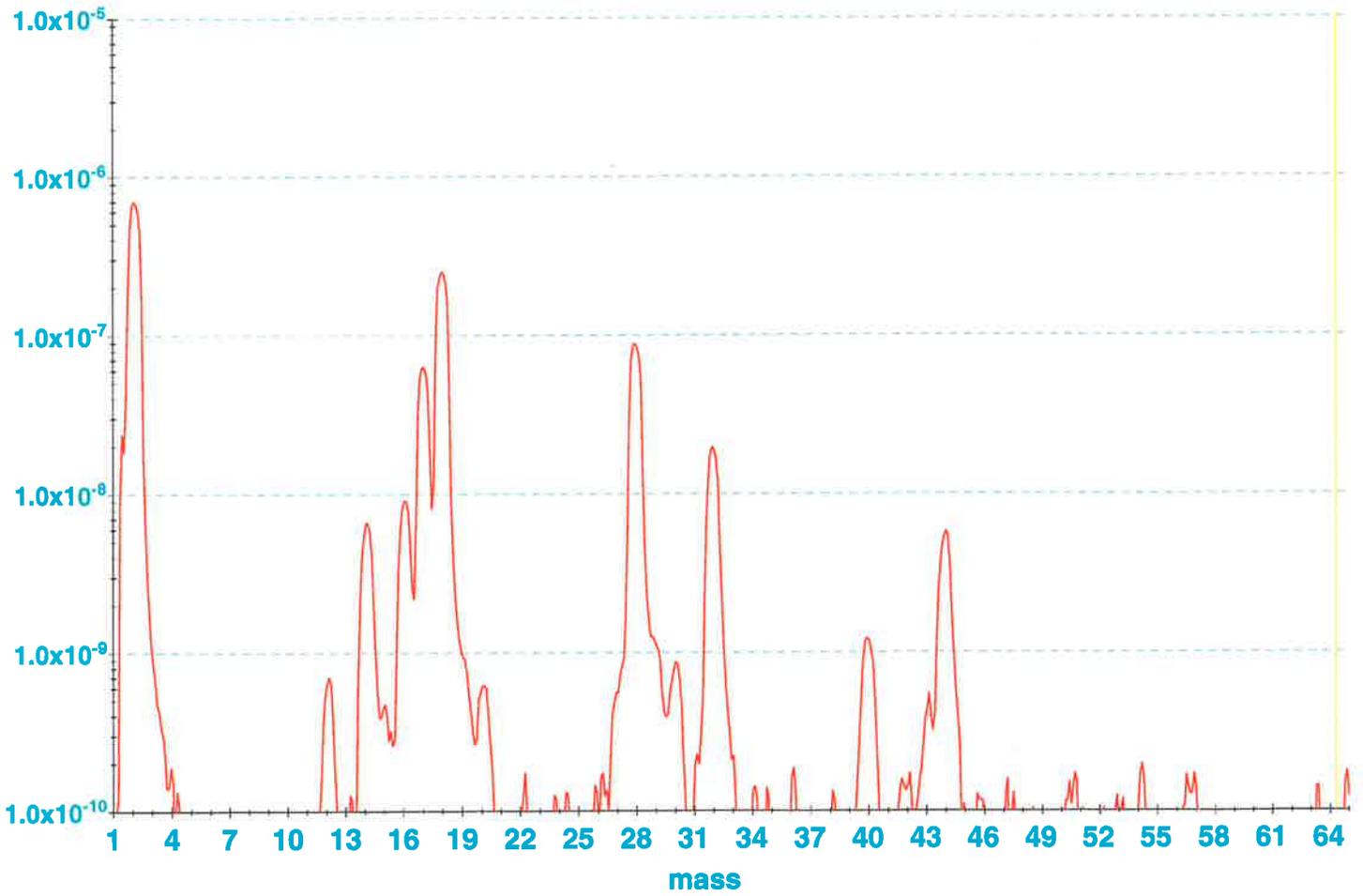
Dec 06, 2016 09:32:52 AM



Analog Scan

Dec 06, 2016 10:00:22 AM

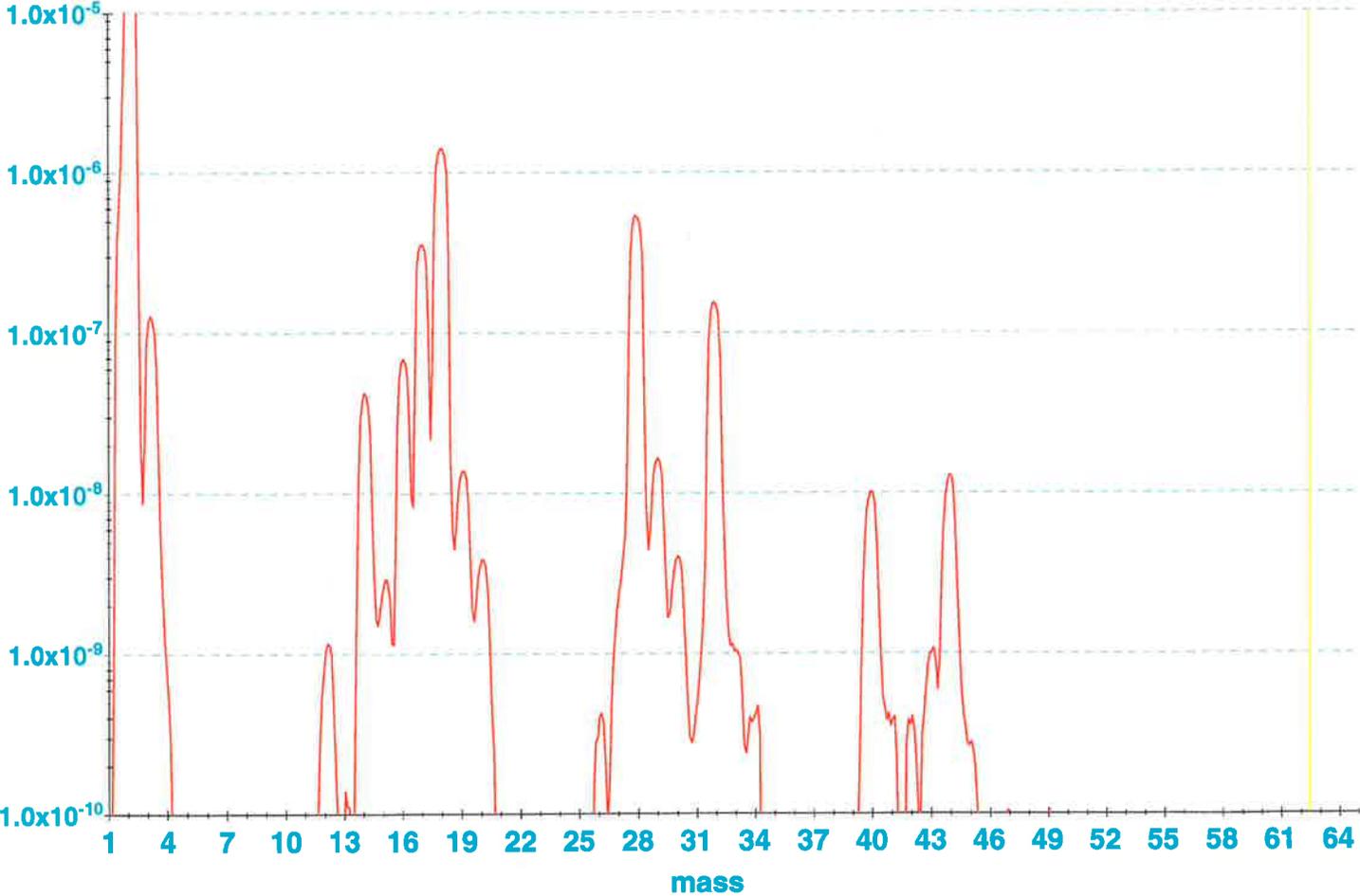
Torr

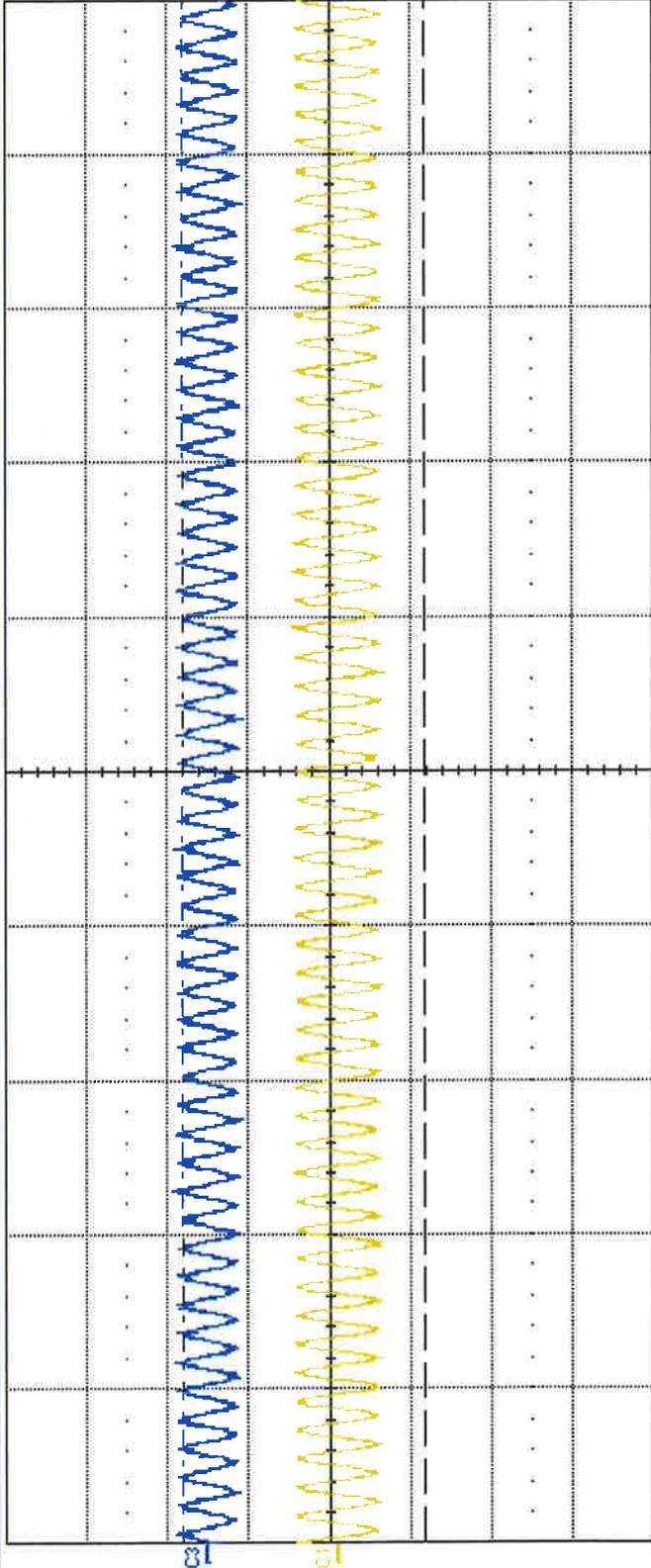


Analog Scan

Dec 06, 2016 10:41:58 AM

Torr



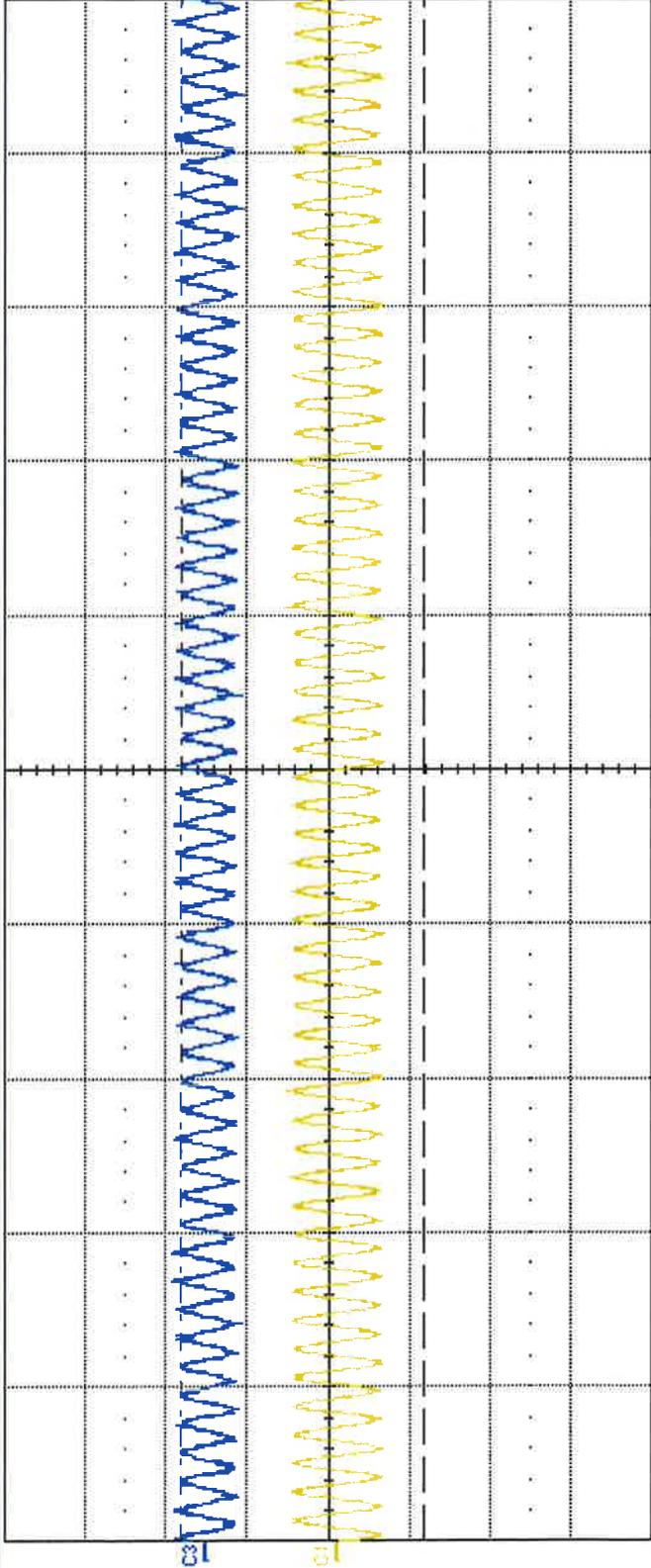


Measure	P1:pkpk(C1)	P2:amp(C1)	P3:amp(C3)	P4:pkpk(C3)	P5:mean(C3)	P6:---
value	1.09 V	860 mV	78.8 V	175 V	-3.7 V	
mean	1.0921 V	845.28 mV	109.231 V	167.23 V	-23 mV	
min	1.03 V	777 mV	72.5 V	150 V	-5.0 V	
max	1.19 V	1.063 V	181.3 V	188 V	5.8 V	
sdev	28.3 mV	29.57 mV	28.476 V	6.51 V	2.144 V	
num	280	280	280	280	280	
status	✓	✓	✓	✓	✓	

C1 DCIM
 1.00 V/div
 -110 mV ofst
 1.92 V
 -1.06 V
 -2.98 V
 ΔV

C3 DCIM
 200 V/div
 300.0 V ofst
 62 V
 -534 V
 -588 V
 ΔV

Tbase -1.540000 ms
 4.00 kS
Trigger C3 DC
 Auto
 200 ns/div
 2.0 GS/s
 Edge
 Positive



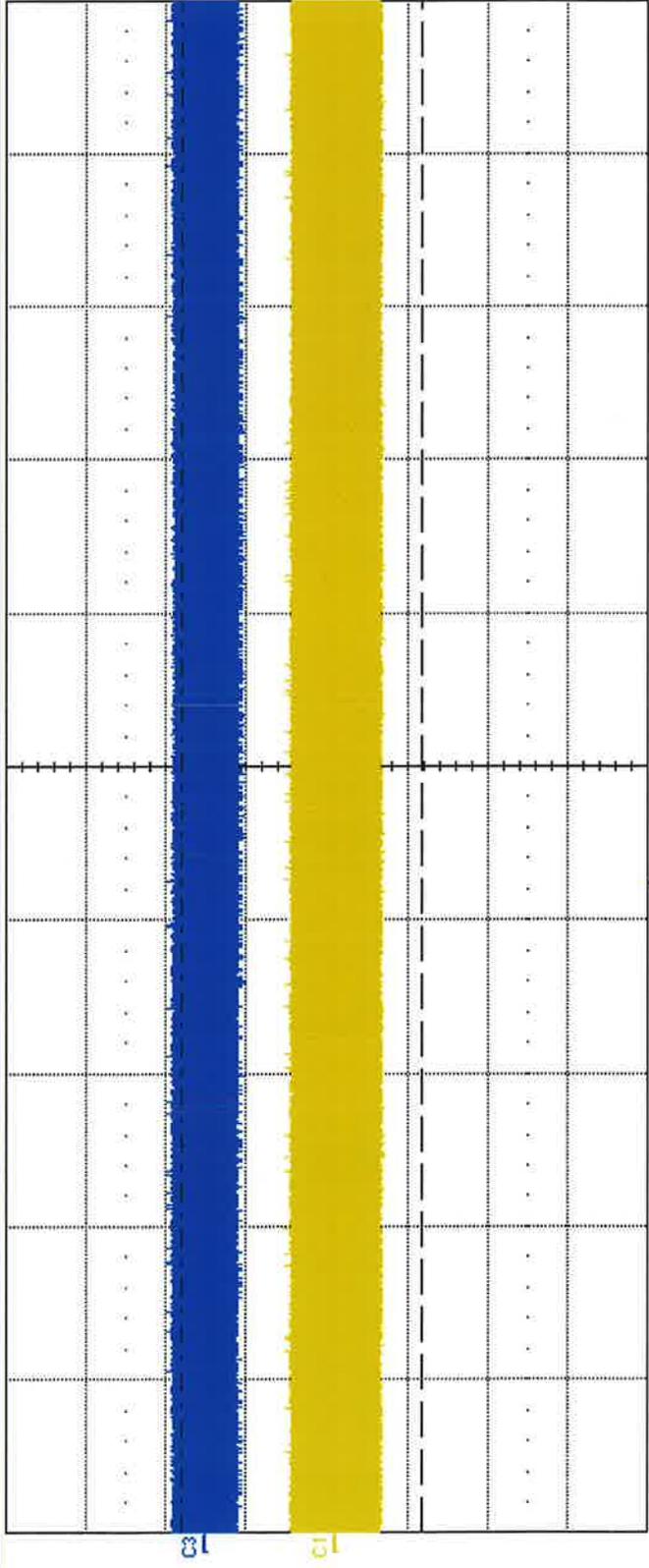
Measure	P1:pkpk(C1)	P2:ampl(C1)	P3:ampl(C3)	P4:pkpk(C3)	P5:mean(C3)	P6:---
value	1.19 V	900 mV	156 V	156 V	-2.7 V	
mean	1.0977 V	849.64 mV	108.455 V	167.30 V	-18 mV	
min	1.03 V	744 mV	71.6 V	150 V	-6.6 V	
max	1.22 V	1.125 V	187.5 V	200 V	7.1 V	
sdev	27.9 mV	27.08 mV	27.652 V	6.36 V	2.298 V	
num	8.836e+3	8.836e+3	8.836e+3	8.836e+3	8.836e+3	
status	✓	✓	.5.	✓	✓	

C1 DCIM 1.00 V/div -110 mV ofst 1.92 V -1.06 V -2.98 V ΔV

C3 DCIM 200 V/div 300.0 V offset 52 V -534 V -566 V ΔV

Tbase -1.540000 ms 4.00 kS

Trigger C3 DC Edge 1.400 V Positive



Measure	P1:pkpk(C1)	P2:amp(C1)	P3:amp(C3)	P4:pkpk(C3)	P5:mean(C3)	P6:---
value	1.22 V	895 mV	194 V	194 V	-631 mV	
mean	1.2188 V	873.15 mV	195.39 V	195.39 V	950 mV	
min	1.19 V	848 mV	194 V	194 V	-1.9 V	
max	1.25 V	895 mV	200 V	200 V	2.8 V	
sdev	24.8 mV	16.40 mV	2.75 V	2.75 V	1.399 V	
num	19	19	19	19	19	
status	✓	✓	∞	✓	✓	

C1 **DSTM**

1.00 V/div
-110 mV of st

200 V/div
380.0 V offset

1.82 V
-1.06 V

Δy -2.98 V
-596 V

Timebase -1.52 ms

2.00 mS/div
100 MS/s

Trigger L4 DC

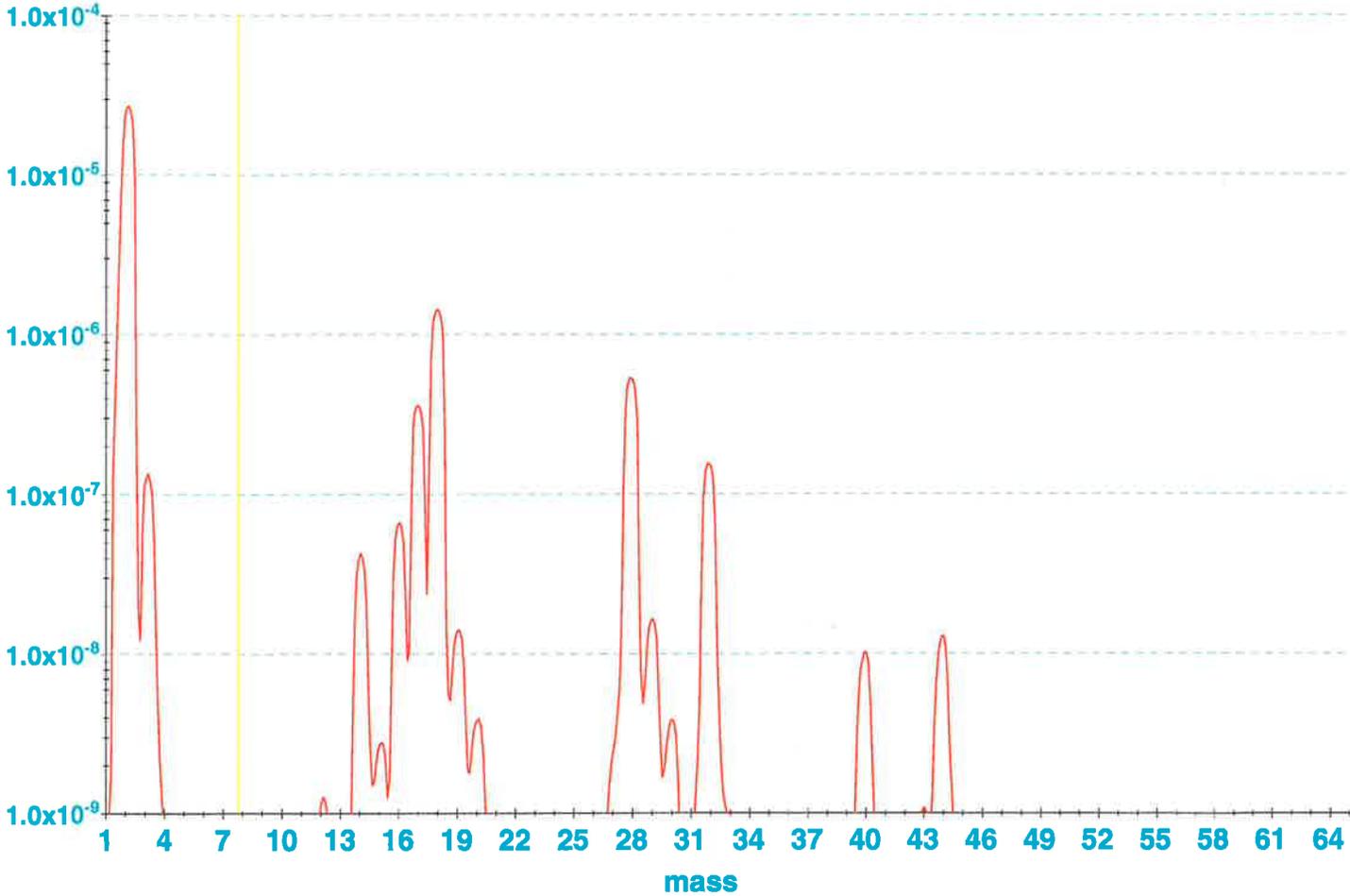
Auto
Edge

1.400 V
Positive

Analog Scan

Dec 06, 2016 10:44:41 AM

Torr



6-Dec-16
10:53:00

1
1 ms
1.00 V

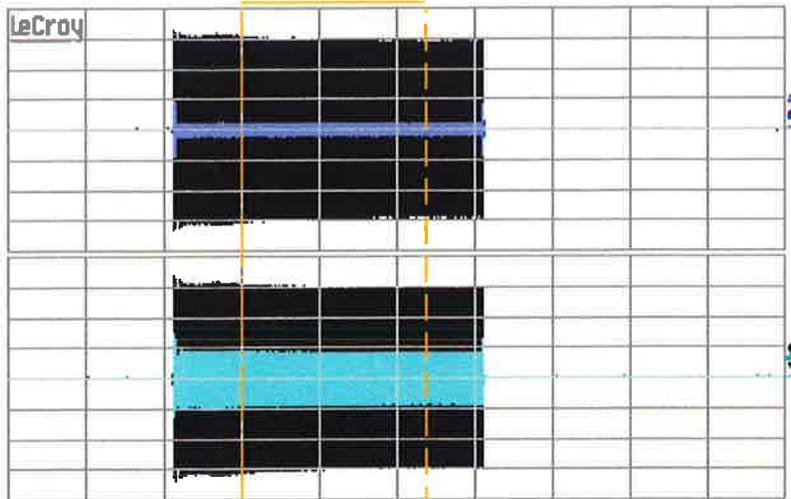
2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V

1 ms

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



380 sweeps:

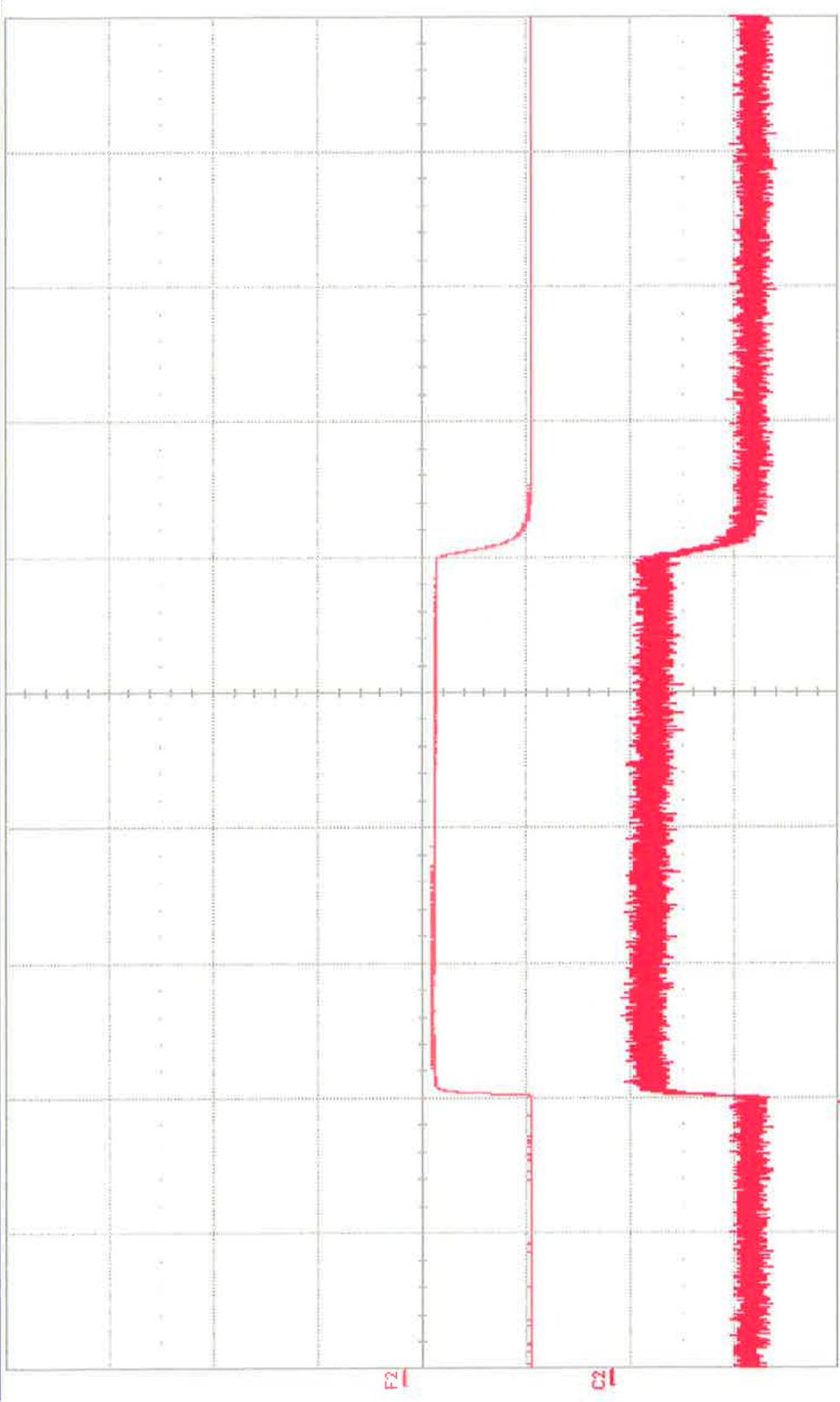
	average	low	high	sigma
rms(1)	2.112 V	1.755	2.342	0.135
rms(2)	137mV	100	174	17
rms(3)	2.139 V	1.799	2.354	0.127
rms(4)	616mV	498	688	43
phase(1,3)	-89 °	-94	-86	2



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL



C2 **DSTM** 50.0 mV/div -91.5 mV
 F2 <C2> 50.0 mV/div 1.00 ms/div 642 #

Tbase -3.04 ms Trigger **C4 DC**
 1.00 kS 1.0 MS/s Normal 2.42 V
 Edge Negative

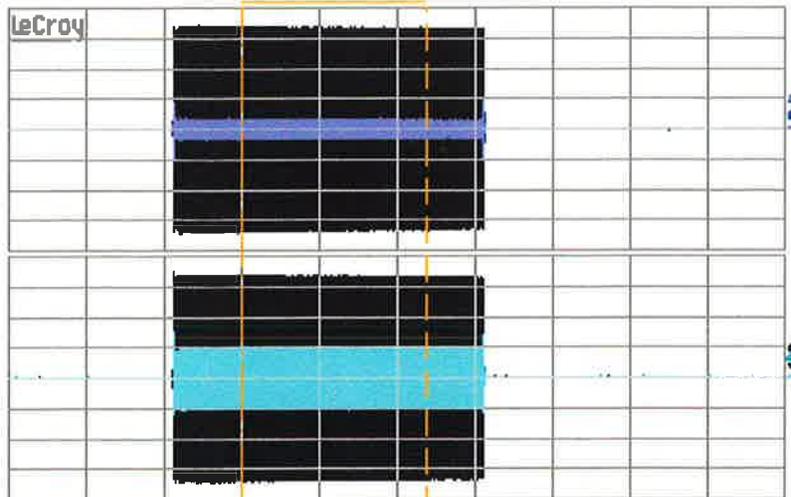
6-Dec-16
10:58:37

1
1 ms
1.00 V

2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V



333 sweeps:

	average	low	high	sigma
rms(1)	2.298 V	2.084	2.366	0.079
rms(2)	178mV	144	200	15
rms(3)	2.309 V	2.109	2.373	0.074
rms(4)	674mV	605	699	26
phase(1,3)	-89 °	-94	-86	2

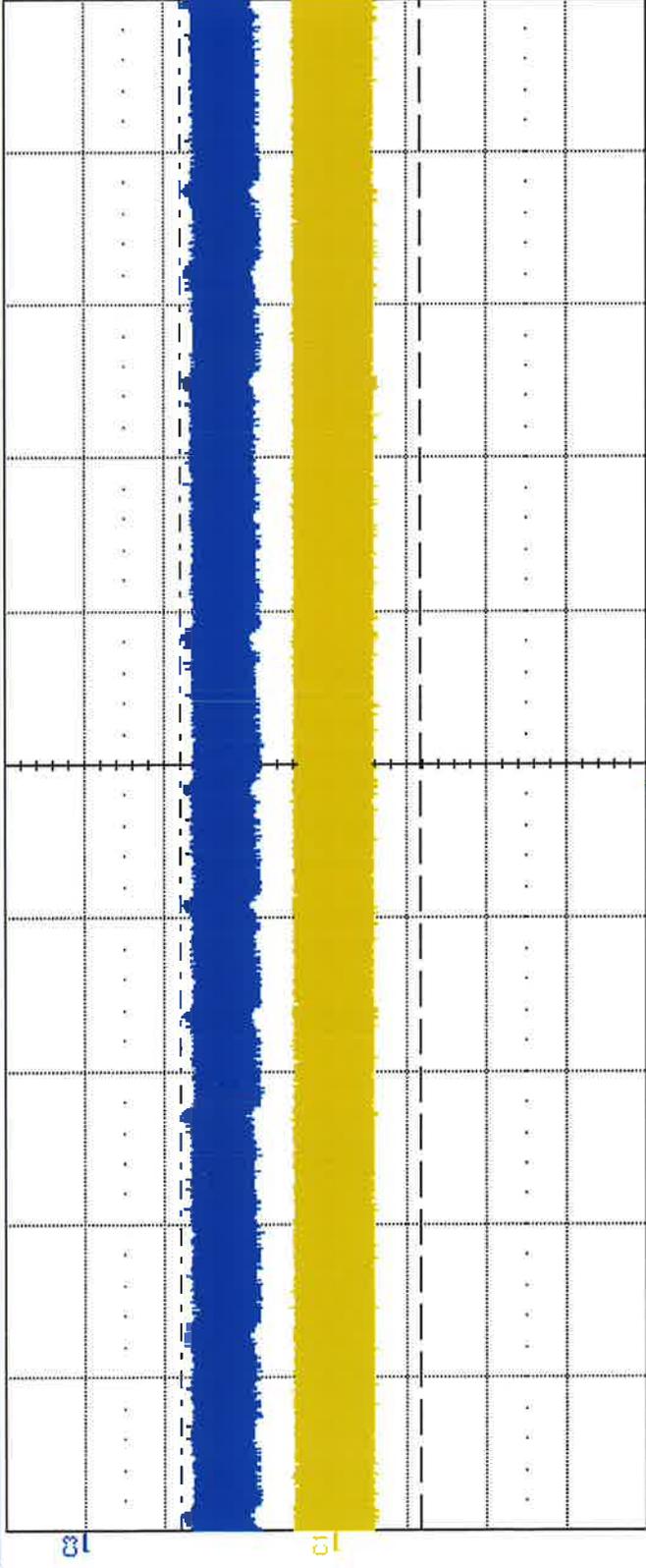
1 ms
1 1 V AC
2 1 V AC
3 1 V AC
4 1 V AC



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL



Measure	P1:pkpk(C1)	P2:amp(C1)	P3:amp(C3)	P4:pkpk(C3)	P5:mean(C3)	P6:---
value	1.09 V	720 mV	306 V	306 V	-355.7 V	
mean	1.0767 V	729.35 mV	211.36 V	211.36 V	-338.633 V	
min	1.06 V	718 mV	188 V	188 V	-355.7 V	
max	1.09 V	738 mV	306 V	306 V	-328.7 V	
sdev	15.6 mV	8.27 mV	30.71 V	30.71 V	8.194 V	
num	11	11	11	11	11	
status	✓	✓	✗	✓	✓	

C1 DCIM

1.00 V/div
-110 mV offset

200 V/div
600.0 V offset

1.52 V
-1.06 V

-2.98 V
-5.96 V

ΔV

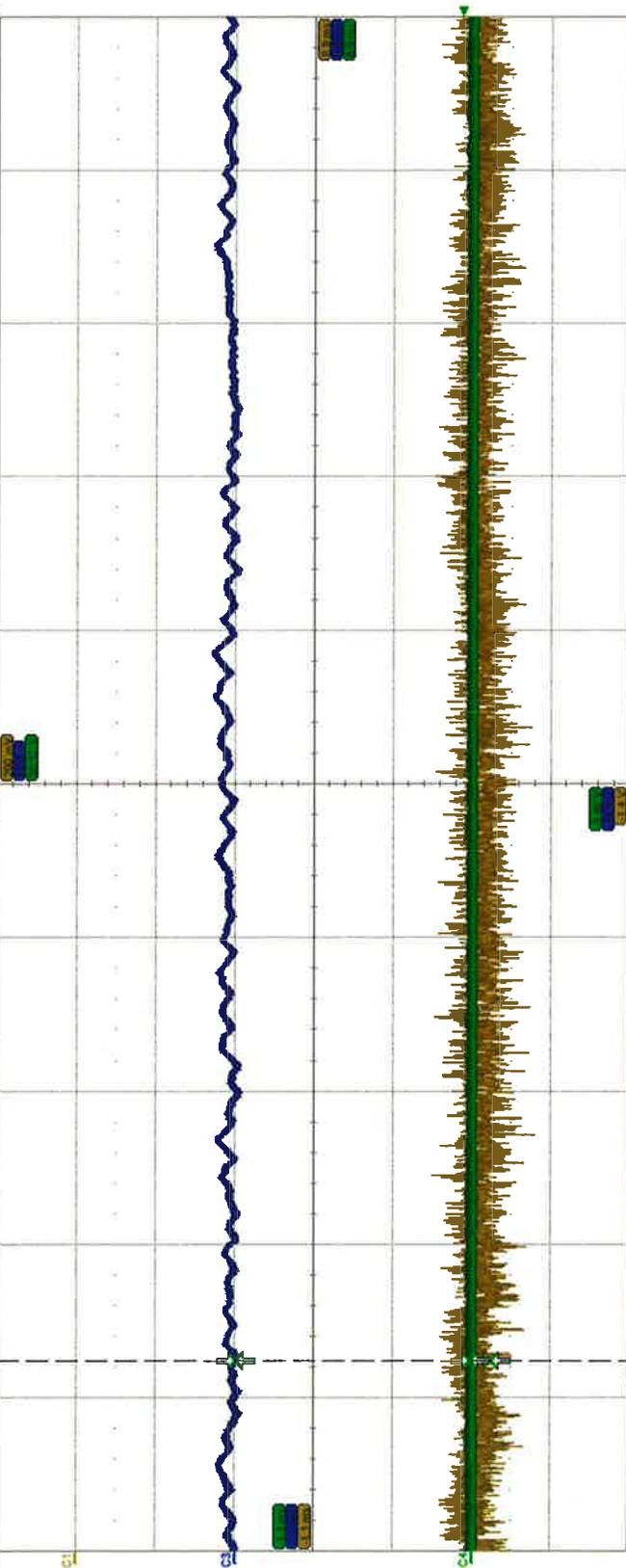
Timebase -1.6 ms

10.0 ms/div
20 MS/s

Trigger C4:DC

Auto
Edge

1.400 V
Positive



Measure	P1:mean(C1)	P2:mean(C1)	P3:mean(F3)	P4:amp(C3)	P5:mean(C3)	P6:mean(C2)	P7:mean(C2)	P8:mean(C3)
value	-1.0255 V	-1.0255 V	34.16 mV	7.64 V	1.97 V			1.97 V
mean	-980.0 mV	-980.0 mV	34.16 mV	7.074 V	1.635 V			1.635 V
min	-1.1786 V	-1.1786 V	34.16 mV	2.08 V	-392 mV			-392 mV
max	-381.4 mV	-381.4 mV	34.16 mV	9.96 V	9.57 V			9.57 V
sddev	145.2 mV	145.2 mV	1	1.122 V	1.950 V			1.950 V
num	15.733e+3	15.733e+3	1	15.733e+3	15.733e+3			15.733e+3
status								

C1 200 mV/div
500 ns/div
-1.0255 V
-1.0255 V
0.00 μs

C2 20.0 V/div
10.000 μs/div
-10.120 V
173 mV
0.00 μs

C3 5.00 V/div
-10.120 V
173 mV
0.00 μs

Trigger C4 DC
1.95 mV/div
500 ns/div
X1= 141.6 μs ΔX= 0.0 μs
X2= 141.6 μs 1/ΔX= -

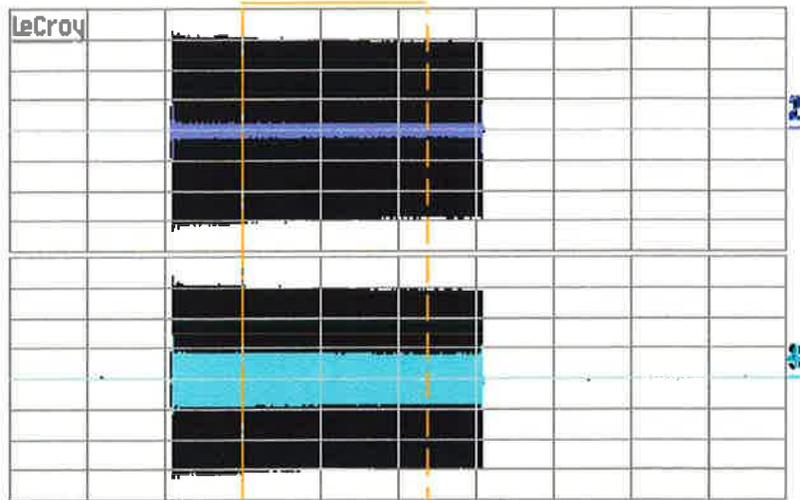
6-Dec-16
11:39:37

1
1 ms
1.00 V

2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V



224 sweeps:

	average	low	high	sigma
rms(1)	2.219 V	2.007	2.360	0.104
rms(2)	159mV	139	181	13
rms(3)	2.220 V	2.012	2.363	0.099
rms(4)	624mV	517	695	32
phase(1,3)	-89 °	-94	-85	2

1 ms

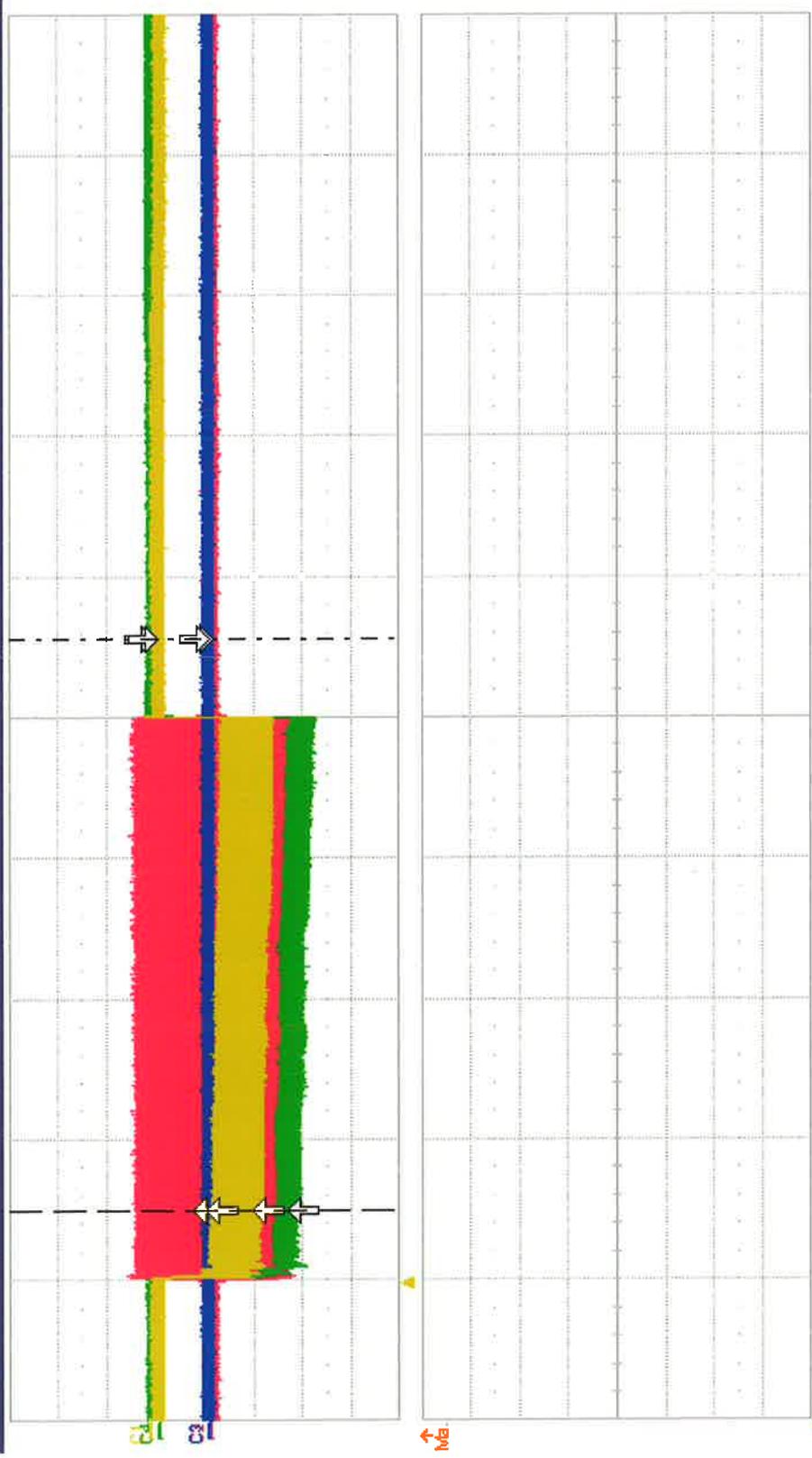
- 1 1 V AC
- 2 1 V AC
- 3 1 V AC
- 4 1 V AC



Ext10 DC 0.05 V 1M Ω

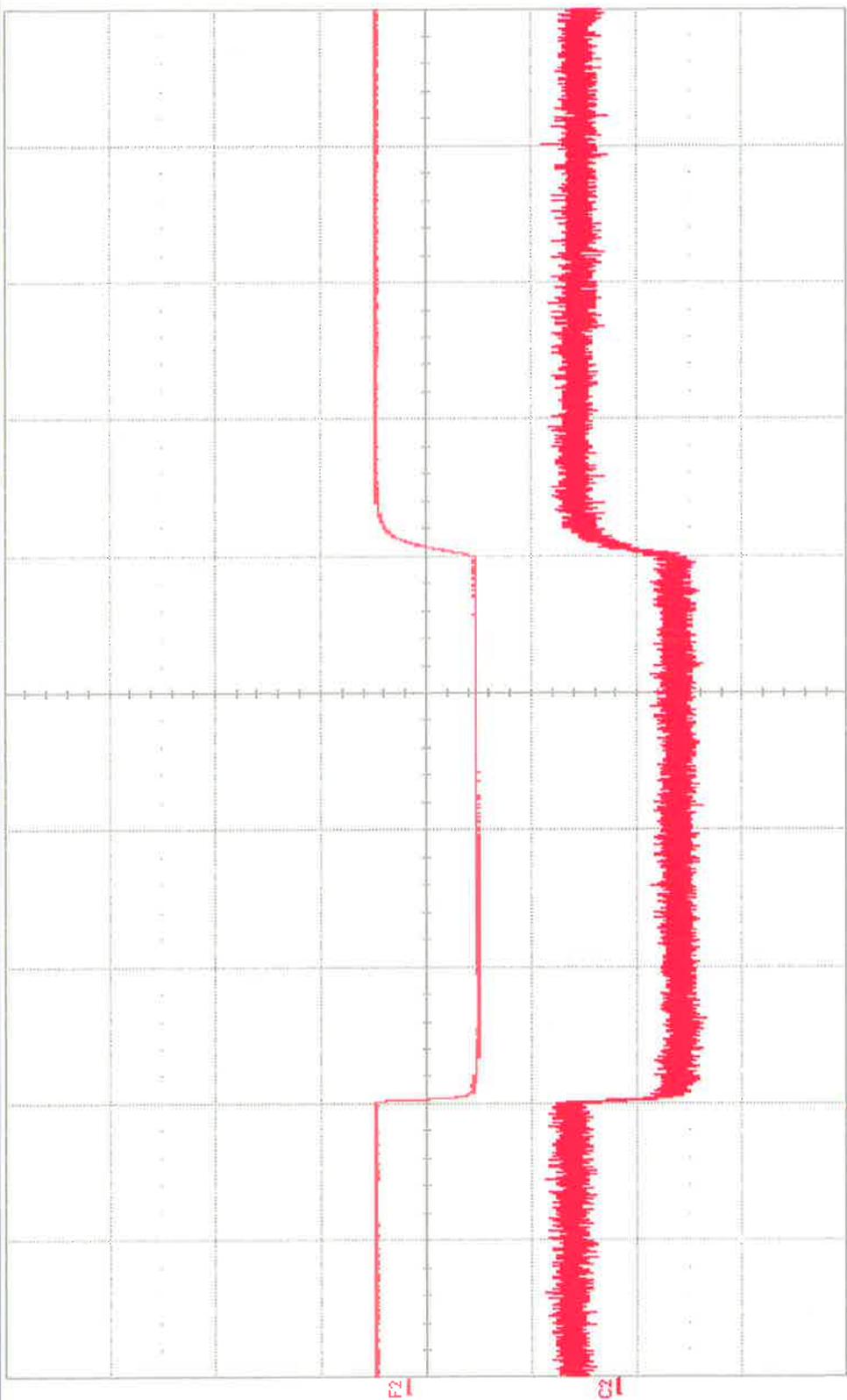
10 MS/s

NORMAL



C1	DCIM	C2	DCIM	C3	DCIM	Math	<FFT(C4)>
20.0 mV/div	20.0 mV/div	200 mV/div	200 mV/div	50.0 V/div	50.0 V/div	700 mV/div	700 mV/div
22.00 mV orst	22.00 mV orst	-30.0 mV orst	-30.0 mV orst	-5.0 V orst	-5.0 V orst	18.00 mV orst	52 kHz/div
↑	↑	↑	↑	↑	↑	↑	↑
-2.31 mV	-6.4 mV	300 mV	300 mV	300 mV	300 mV	1.59 mV	4.543 kHz
↑	↑	↑	↑	↑	↑	↑	↑
-42.31 mV	273.2 mV	300 mV	300 mV	0.0 V	0.0 V	-50.39 mV	
Δy	Δy	Δy	Δy	Δy	Δy	Δy	Δy
-40.00 mV	279.6 mV					-51.98 mV	

Timebase	-4.02 ms	Trigger	Ext10 [DC]
1.00 ms/div	Normal	0.00 V	
1.00 MS	Edge	Negative	
X1=	4.58000 ms	ΔX=	-4.06000 ms
X2=	520.00 μs	1/ΔX=	-246.3054 Hz

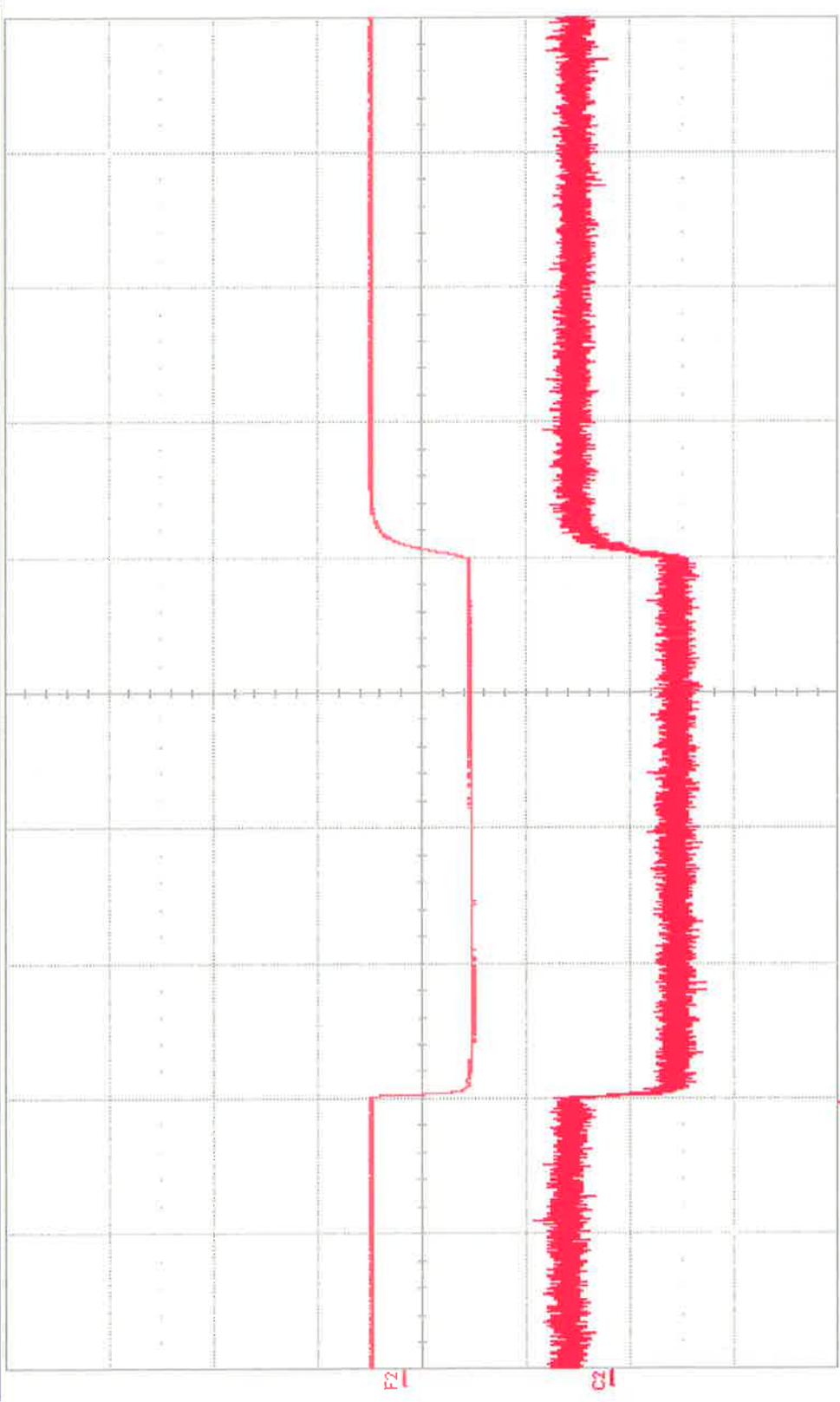


C2 **DATA**
50.0 mV/div
-91.5 mV

F2
50.0 mV/div
1.00 ms/div
538 #

Tbase -3.04 ms
1.00 ms/div
100 kS

Trigger **C1 DC**
Normal 2.42 V
Edge Negative



Tbase -3.04 ms Trigger C4 DC
 1.00 ms/div Normal 2.42 V
 100 kS 10 MS/s Edge Negative

C2 **DDTM** 50.0 mV/div -91.5 mV
 F2 50.0 mV/div 1.00 ms/div 689 #
 <C2>



C1	DCIM	20.0 mV/div 22.00 mV ofst	↑ ↓	-51.37 mV -48.98 mV	↑ ↓	2.38 mV Δy
C2	DCIM	200 mV/div -30.0 mV ofst	↑ ↓	30.2 mV -169.4 mV	↑ ↓	-199.6 mV Δy
C3	DCIM	50.0 V/div -5.0 V ofst	↑ ↓	-1.2 V 1.5 V	↑ ↓	2.7 V Δy
C4	DCIM	20.0 mV/div 18.00 mV ofst	↑ ↓	-62.98 mV -66.91 mV	↑ ↓	-3.93 mV Δy
Math	-FFT(C4)	700 mdB/div 52 kHz/div	↑ ↓	5.146 kHz	↑ ↓	Δy
Timebase	-4.02 ms	1.00 ms/div 1.00 MS	Trigger	Normal	Edge	Ext/10.00
X1	3.46097 ms	ΔX=	-2.94097 ms			
X2	520.00 μs	1/ΔX=	-340.024 Hz			

6-Dec-16
11:51:33

1
1 ms
1.00 V

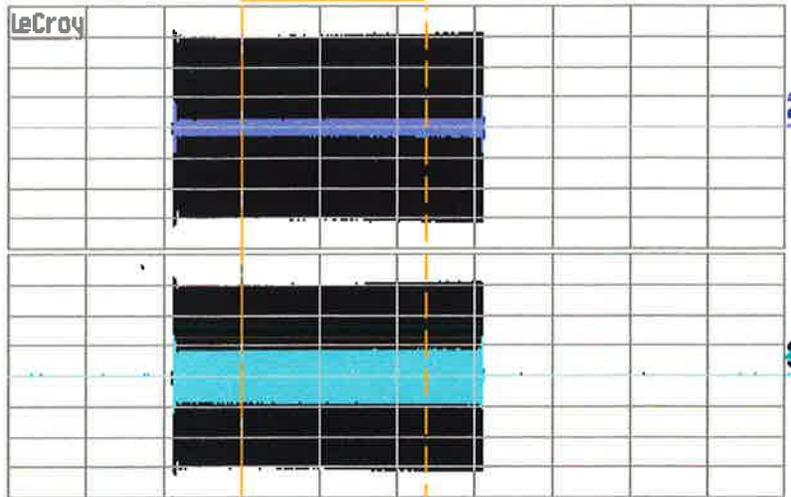
2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V

1 ms

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



940 sweeps:

	average	low	high	sigma
rms(1)	2.232 V	1.964	2.360	0.102
rms(2)	177mV	139	213	20
rms(3)	2.227 V	1.971	2.363	0.095
rms(4)	634mV	516	695	33
phase(1,3)	-89 °	-94	-85	2



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL

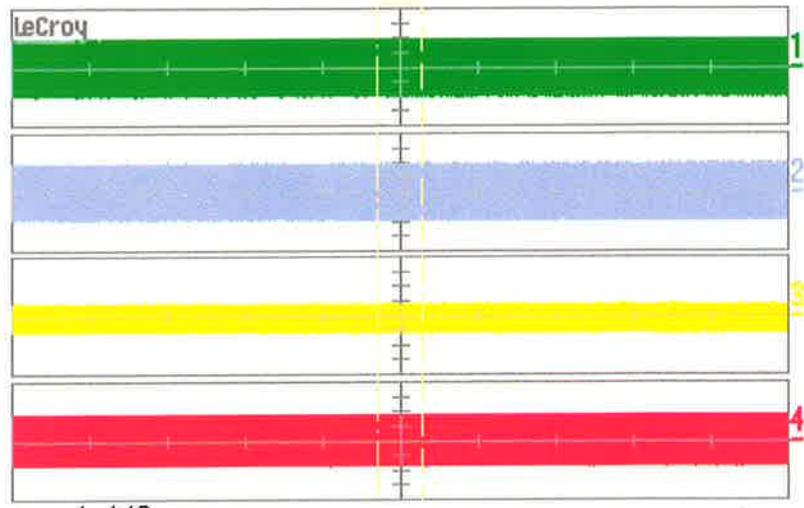
6-Dec-16
11:51:38

1
20 μ s
20.0mV

2
20 μ s
50mV

3
20 μ s
50mV

4
20 μ s
100mV



← 1.146 ms

	22 sweeps:	average	low	high	sigma
pkpk (1)		77.5mV	75.0	83.1	2.2
pkpk (2)		192.1mV	184.4	201.6	5.5
pkpk (3)		103.6mV	100.0	109.4	2.7
pkpk (4)		347mV	334	366	8
phase(2,1)		68.7 °	65.6	71.9	0.9

- 20 μ s
- 1 20 mV 50 Ω
 - 2 50 mV 50 Ω
 - 3 50 mV 50 Ω
 - 4 .1 V 50 Ω



Ext10 DC 0.15 V 1M Ω

200 MS/s
 NORMAL

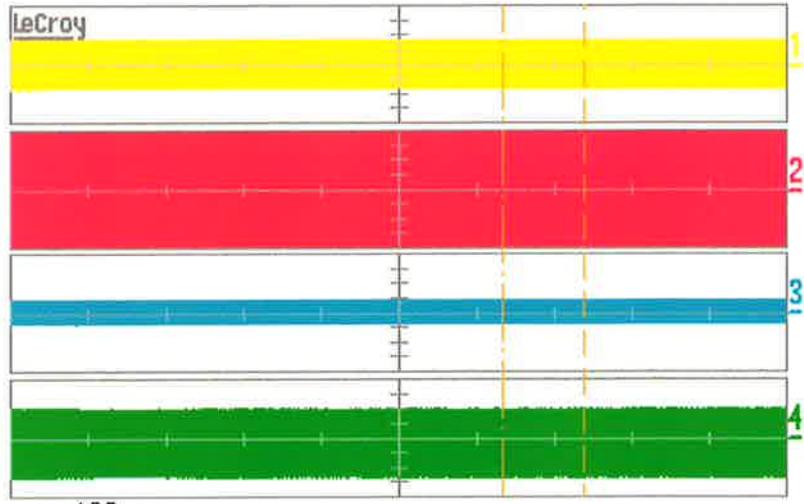
6-Dec-16
11:51:45

1
20 μ s
200mV

2
20 μ s
200mV

3
20 μ s
50mV

4
20 μ s
50mV



← 120 μ s

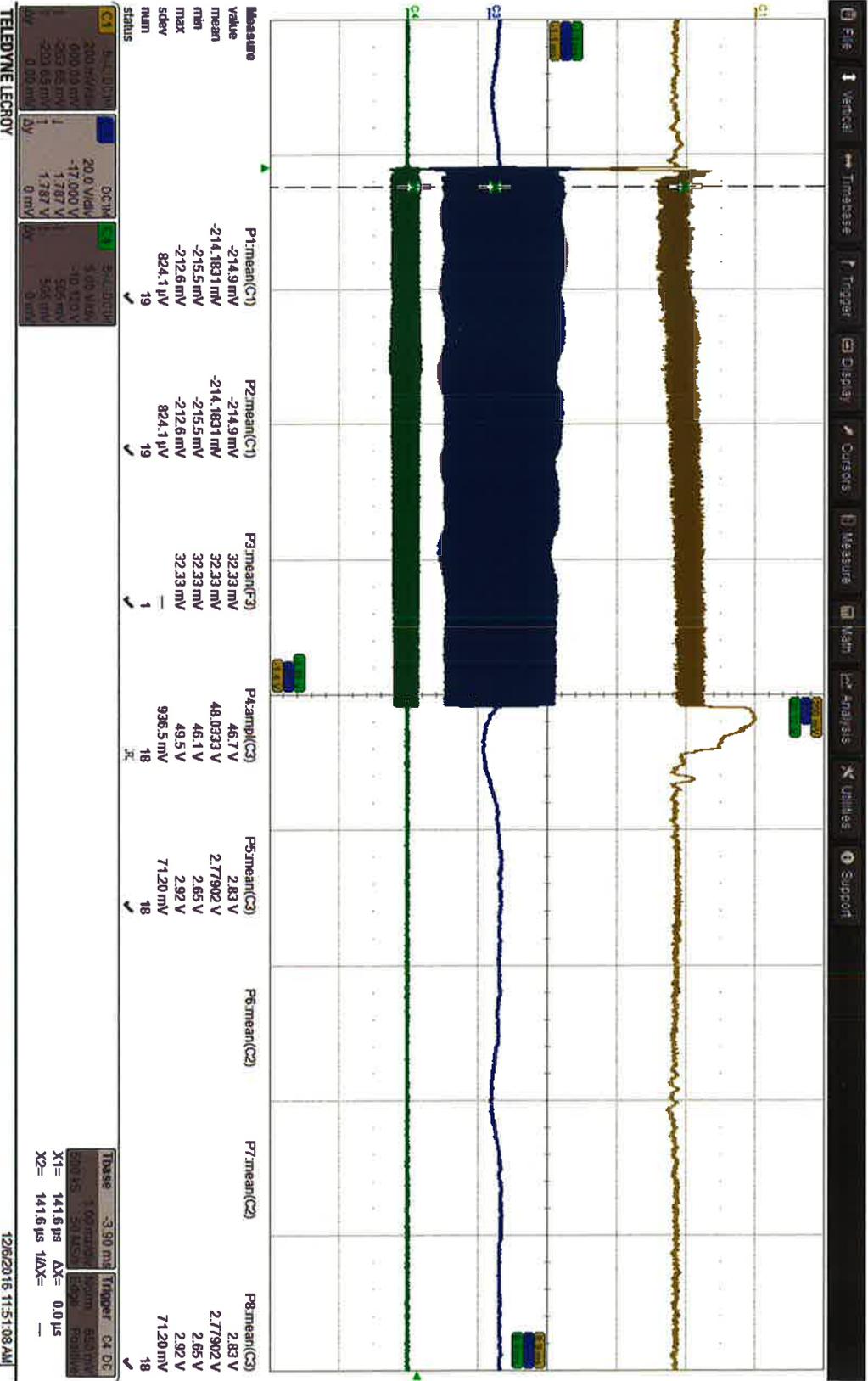
		31 sweeps:	average	low	high	sigma
pkpk	(1)		667mV	631	706	22
pkpk	(2)	↕	1.594 V	1.594	1.594	0.000
pkpk	(3)		85.6mV	81.3	90.6	3.0
pkpk	(4)		232.8mV	221.9	246.9	7.7
phase	(1,2)		-13.4 °	-15.7	-11.3	0.6

- 20 μ s
- 1 .2 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



Measure	Value	P1:mean(C1)	P2:mean(C1)	P3:mean(F3)	P4:amp(C3)	P5:mean(C3)	P6:mean(C2)	P7:mean(C2)	P8:mean(C3)
mean	-214.9 mV	-214.9 mV	-214.9 mV	32.33 mV	48.7 V	2.83 V			2.83 V
min	-214.1831 mV	-214.1831 mV	-214.1831 mV	32.33 mV	48.0333 V	2.77902 V			2.77902 V
max	-215.5 mV	-215.5 mV	-215.5 mV	32.33 mV	48.1 V	2.65 V			2.65 V
sddev	-212.6 mV	-212.6 mV	-212.6 mV	32.33 mV	49.5 V	2.92 V			2.92 V
num	824.1 mV	824.1 mV	824.1 mV	—	936.5 mV	71.20 mV			71.20 mV
status	19	19	19	1	18	18			18

TELEBYNE LECHROY

20.0 V/div
 1.000 ns/div
 20.0 V/div
 -17.000 V
 1.787 V
 0 mV

5.00 V/div
 -10.120 V
 505 mV
 505 mV
 0 mV

Base: -3.90 ns Trigger: C4 DE
 X1= 141.6 ps DX= 0.0 μs
 X2= 141.6 μs TDX= —

12/6/2016 11:51:08 AM

T2K1E
 X1000
 Probe
 on probe
 leaving probe
 on SEC probe
 out of Aluon
 RMP pick-up

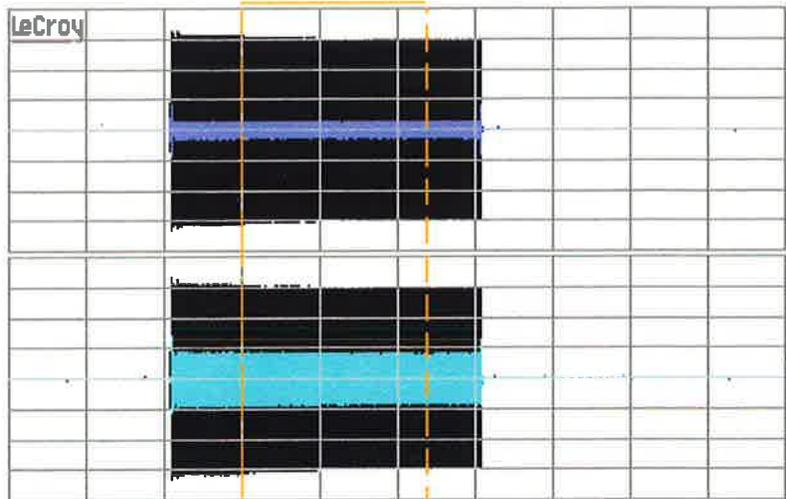
6-Dec-16
12:02:39

1
1 ms
1.00 V

2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V



1606 sweeps:

	average	low	high	sigma
rms(1)	2.221 V	1.922	2.360	0.100
rms(2)	183mV	139	220	19
rms(3)	2.214 V	1.924	2.363	0.093
rms(4)	629mV	488	695	33
phase(1,3)	-89 °	-94	-85	2

1 ms

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



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL

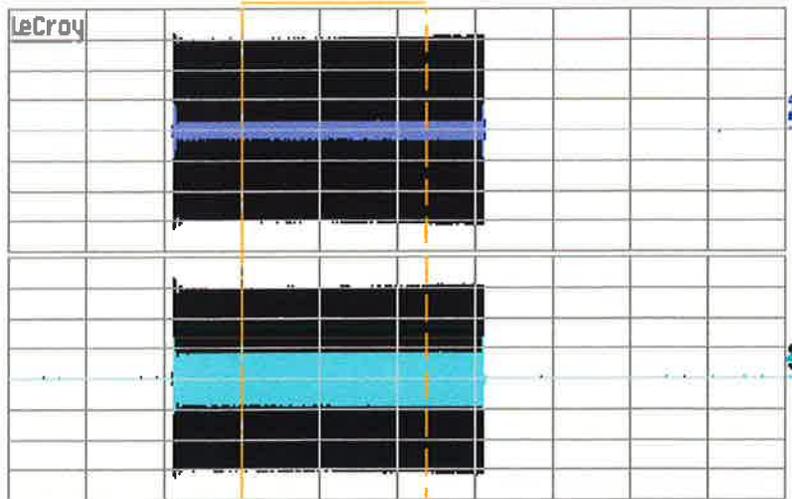
6-Dec-16
12:05:48

1
1 ms
1.00 V

2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V



184 sweeps:

	average	low	high	sigma
rms(1)	2.241 V	2.078	2.347	0.080
rms(2)	199mV	174	218	12
rms(3)	2.231 V	2.081	2.328	0.074
rms(4)	631mV	559	665	24
phase(1,3)	-89 °	-94	-86	2

1 ms

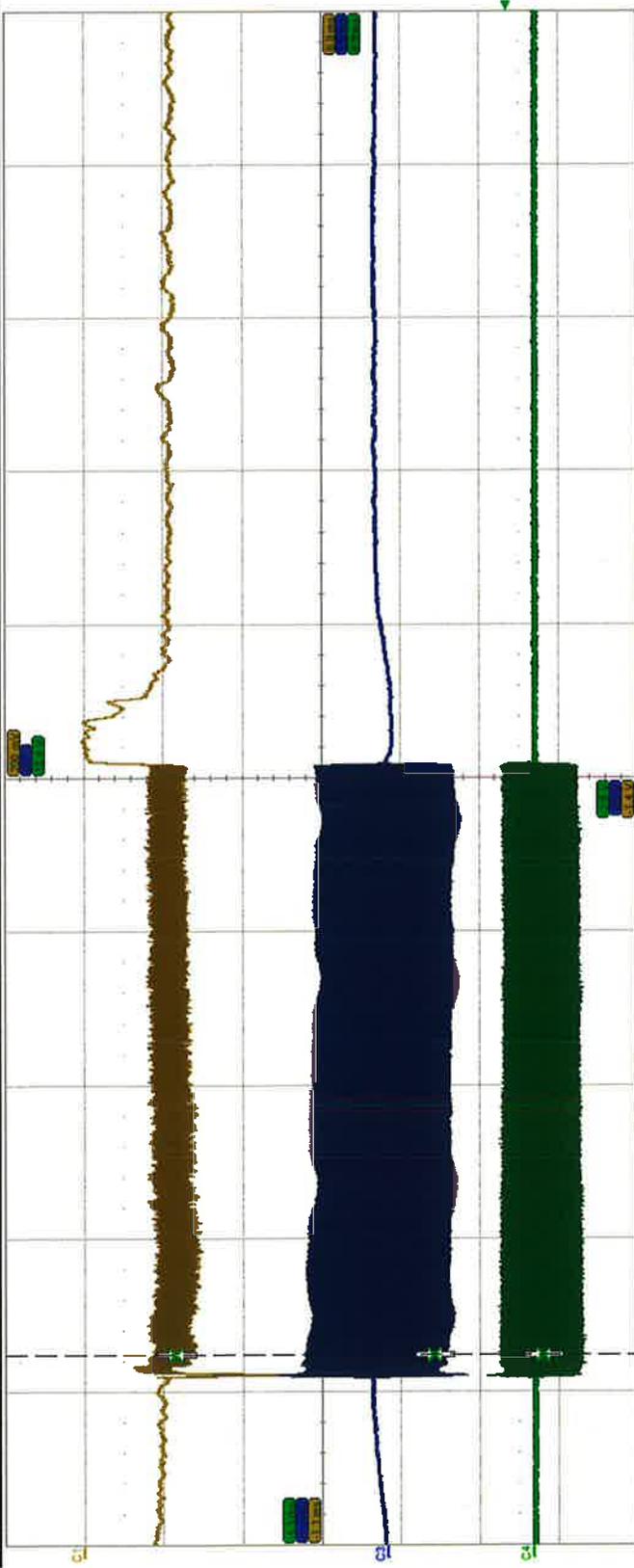
- 1 1 V AC
- 2 1 V AC
- 3 1 V AC
- 4 1 V AC



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL



Measure	P1:mean(C1)	P2:mean(C1)	P3:mean(F3)	P4:amp(C3)	P5:mean(C3)	P6:mean(C2)	P7:mean(C2)	P8:mean(C3)
value	-206.0 mV	-206.0 mV	-1.51 mV	48.2 V	2.07 V	2.07 V	2.07 V	2.07 V
mean	-206.682 mV	-206.682 mV	-1.51 mV	53.511 V	2.22184 V	2.22184 V	2.22184 V	2.22184 V
min	-216.2 mV	-216.2 mV	-1.51 mV	48.2 V	2.07 V	2.07 V	2.07 V	2.07 V
max	-205.6 mV	-205.6 mV	-1.51 mV	55.6 V	2.44 V	2.44 V	2.44 V	2.44 V
stdev	3.216 mV	3.216 mV	—	1.556 V	98.63 mV	98.63 mV	98.63 mV	98.63 mV
num	18	18	1	18	18	18	18	18
status	✓	✓	✓	✗	✓	✓	✓	✓

C1 INCL: 0.01M
200 mV/div
600.00 ns
-222.37 mV
0.00 mV

C2 INCL: 0.01M
25.0 V/div
177.000 ns
-11.585 V
0.00 mV

C3 INCL: 0.01M
2.00 V/div
-5.4000 V
-199.3 mV
0.00 mV

Base: 3.90 mV Trigger: C4 D6
 X1= 141.6 μs ΔX= 0.0 μs
 X2= 141.6 μs ΔX= —

6-Dec-16
12:23:36

1
1 ms
1.00 V

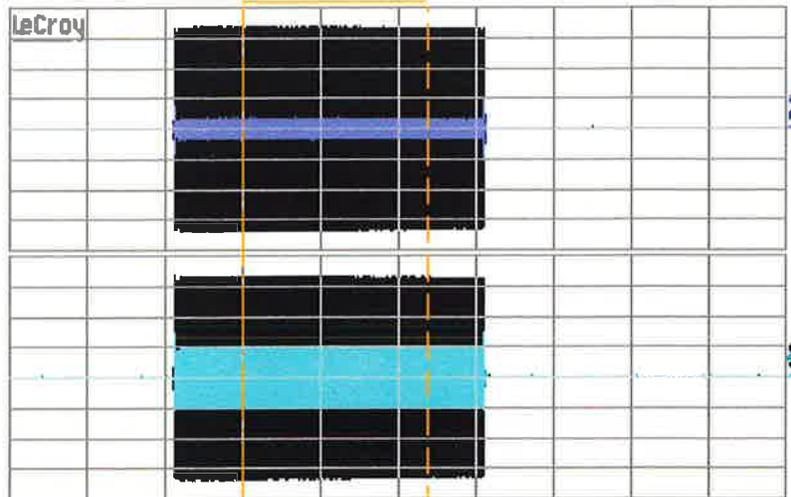
2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V

1 ms

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



1252 sweeps:

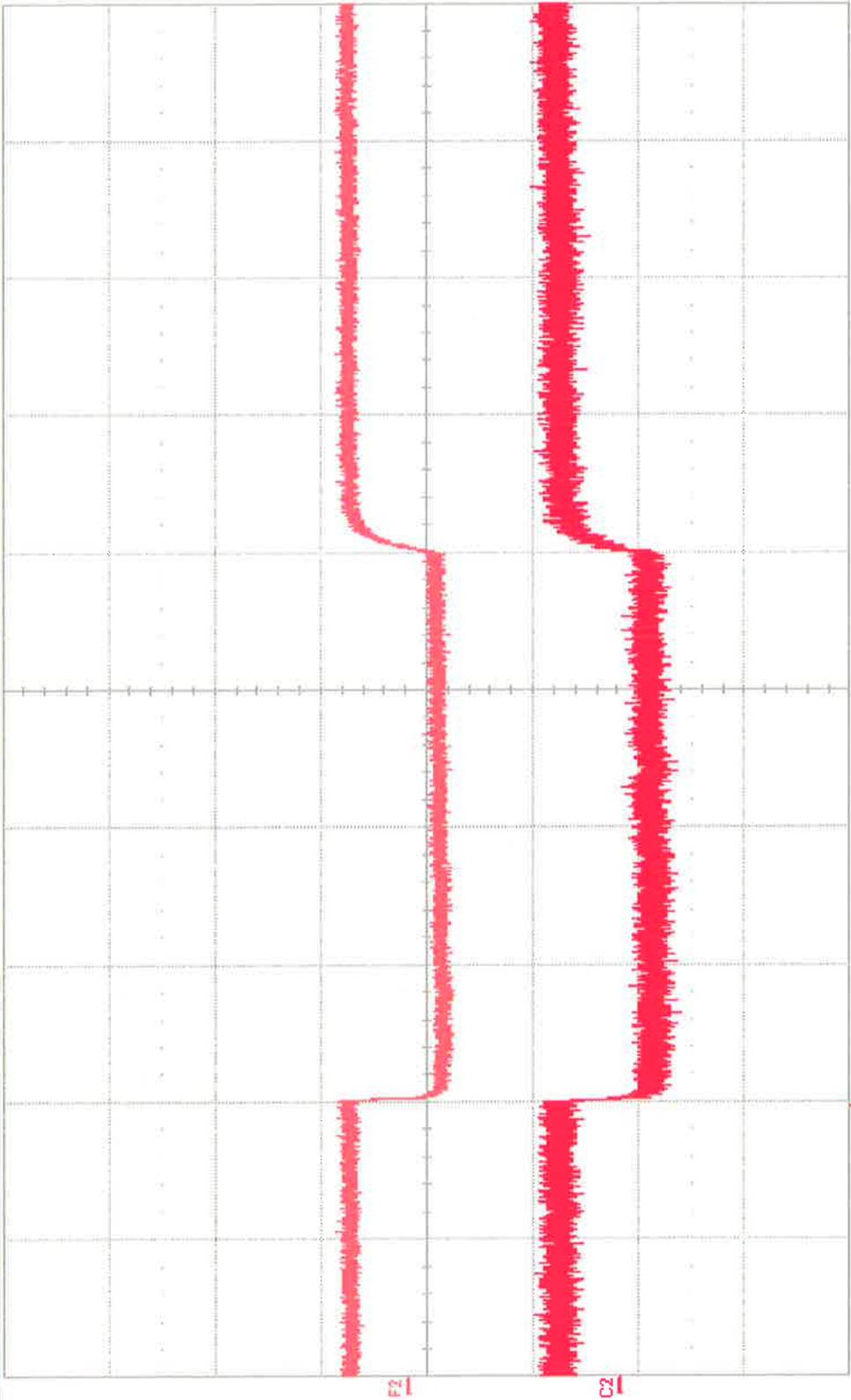
	average	low	high	sigma
rms(1)	2.243 V	1.995	2.352	0.086
rms(2)	196mV	162	223	16
rms(3)	2.227 V	1.995	2.328	0.079
rms(4)	643mV	518	697	31
phase(1,3)	-89 °	-94	-85	2



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL



Tbase -3.04 ms Trigger **C1 DC**
 1.00 ms/div Normal 2.42 V
 100 kS Edge Negative

C2 **DC 1V** 50.0 mV/div
 F2 50.0 mV/div
 -91.5 mV
 1.00 ms/div
 5 #

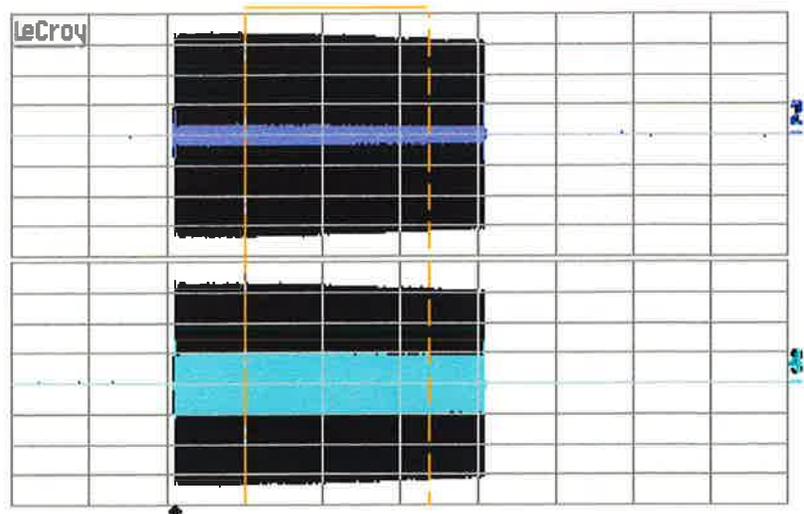
6-Dec-16
12:41:56

1
1 ms
1.00 V

2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V



1083 sweeps:		average	low	high	sigma
rms(1)		2.291 V	2.058	2.384	0.063
rms(2)		197mV	173	221	12
rms(3)		2.262 V	2.042	2.360	0.058
rms(4)		675mV	567	735	21
phase(1,3)		-89 °	-94	-85	2

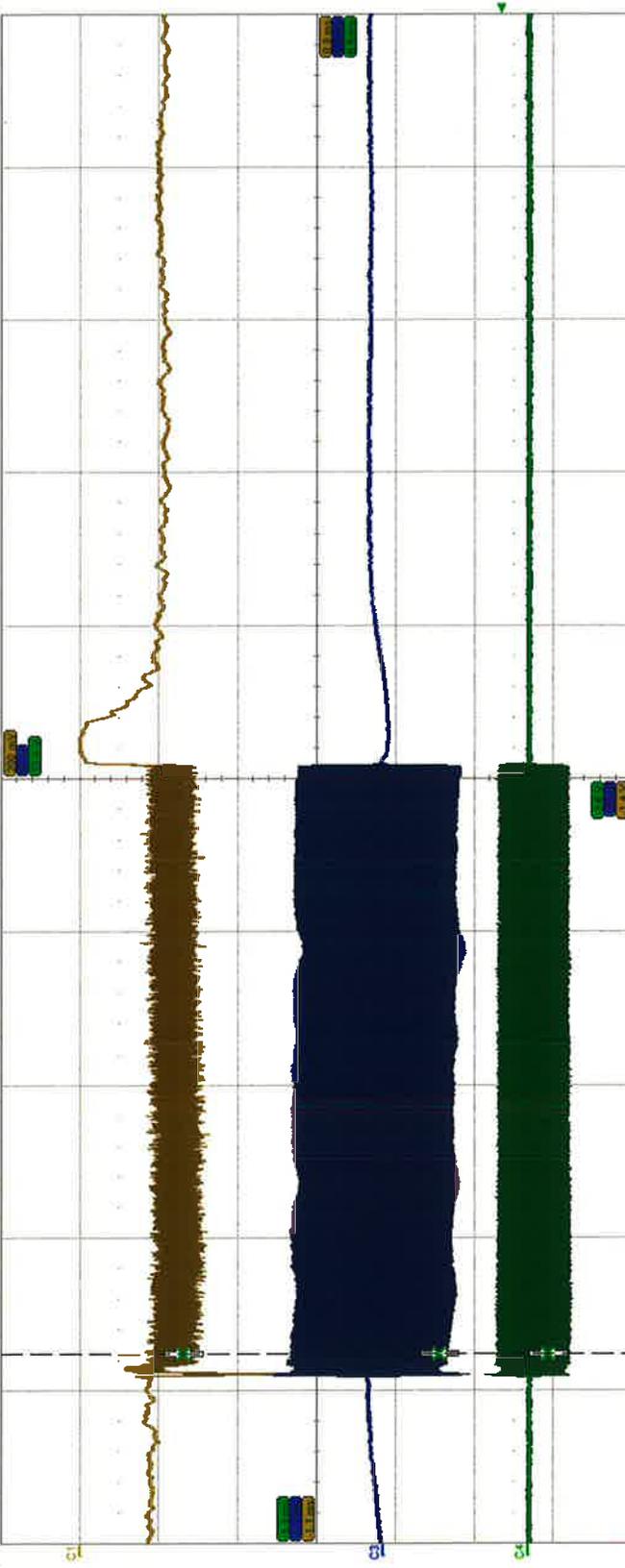
- 1 ms
- 1 1 V AC
- 2 1 V AC
- 3 1 V AC
- 4 1 V AC



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL



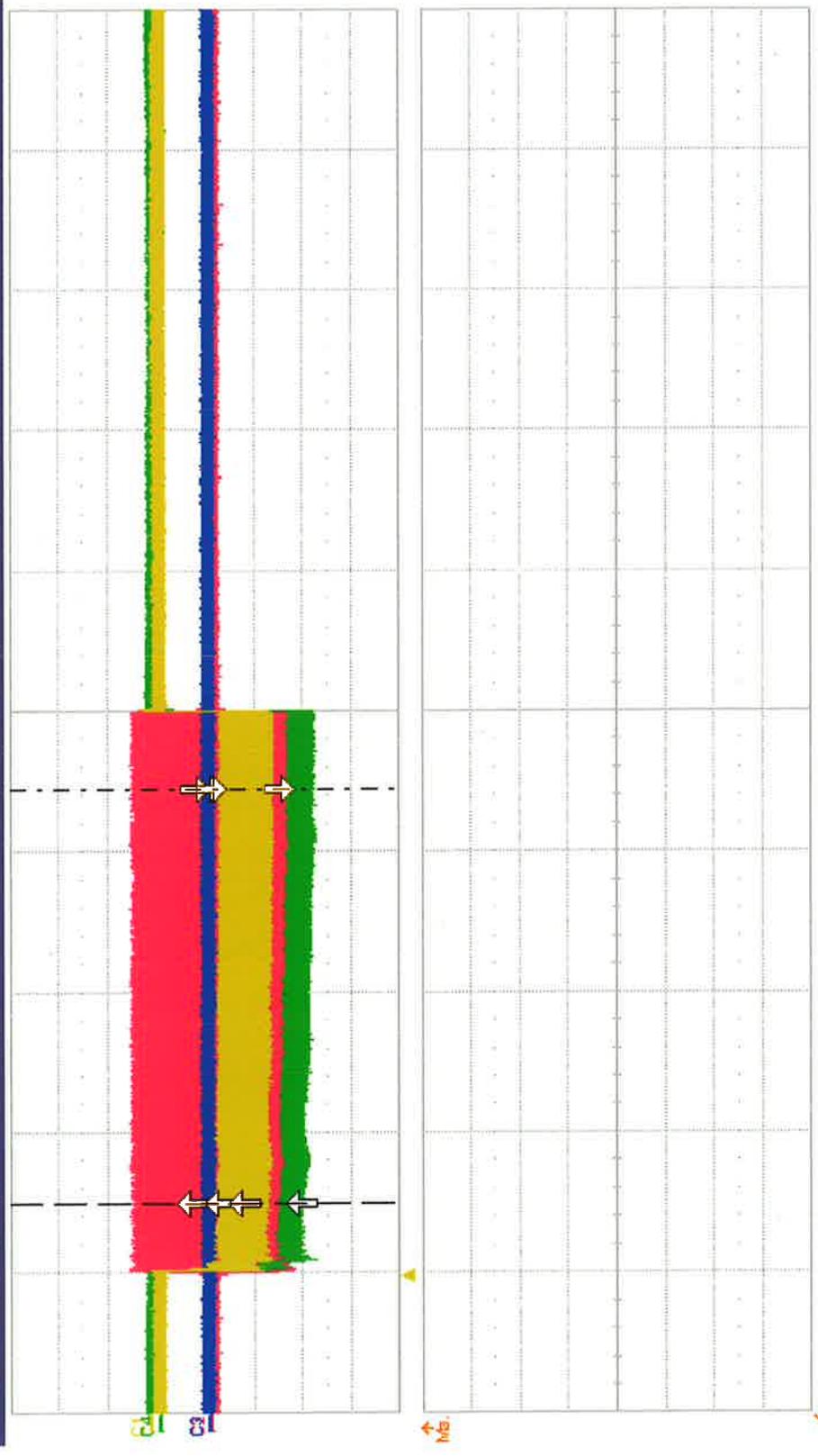
Measure	P1.mean(C1)	P2.mean(C1)	P3.mean(F3)	P4.ampl(C3)	P5.mean(C3)	P6.mean(C2)	P7.mean(C2)	P8.mean(C3)
value	-211.2 mV	-211.2 mV	-1.07 mV	51.9 V	2.42 V	2.42 V	2.42 V	2.42 V
mean	-211.187 mV	-211.187 mV	-1.07 mV	51.418 V	2.3747 V	2.3747 V	2.3747 V	2.3747 V
min	-213.8 mV	-213.8 mV	-1.07 mV	45.2 V	1.90 V	1.90 V	1.90 V	1.90 V
max	-209.9 mV	-209.9 mV	-1.07 mV	52.8 V	2.51 V	2.51 V	2.51 V	2.51 V
stdev	1.102 mV	1.102 mV	—	2.252 V	177.2 mV	177.2 mV	177.2 mV	177.2 mV
num	9	9	1	9	9	9	9	9
status	✓	✓	✓	✗	✓	✓	✓	✓

C1 200 mV/div
25.0 V/div
0.000 mV
-17.000 V
-254.57 mV
-14.032 V
0.000 mV

64L DCIM
2.00 V/div
-5.4000 V
-500.2 mV
-500.2 mV
0.0 mV

Phase: -3.90 ms Trigger: C4 DC

X1= 141.6 μs ΔX= 0.0 μs
X2= 141.6 μs 1/ΔX= —



C1	DCIM	20.0 mV/div 22.00 mV offset	↑ ↓	-29.91 mV -32.19 mV	↑ ↓	Δy -2.29 mV
C2	DCIM	200 mV/div -30.0 mV offset	↑ ↓	-220.0 mV -46.8 mV	↑ ↓	Δy 173.2 mV
C3	ESUM	50.0 V/div -5.0 V offset	↑ ↓	-100 mV 1.1 V	↑ ↓	Δy 1.1 V
C4	DCIM	20.0 mV/div 18.00 mV offset	↑ ↓	-55.98 mV -51.60 mV	↑ ↓	Δy 4.38 mV
Math	<FFT(C4)>	700 mV/div 52 kHz/div	↑ ↓	4 #	↑ ↓	Δy

Timebase -4.02 ms
 1.00 ms/div
 1.00 MS
Trigger **ERR10** **DC**
 Normal
 Edge
 0.00 V
 Negative
X1= 3.46097 ms **ΔX=** -2.94097 ms
X2= 520.00 μs **1/ΔX=** -340.024 Hz

6-Dec-16

12:58:22

1
1 ms
1.00 V

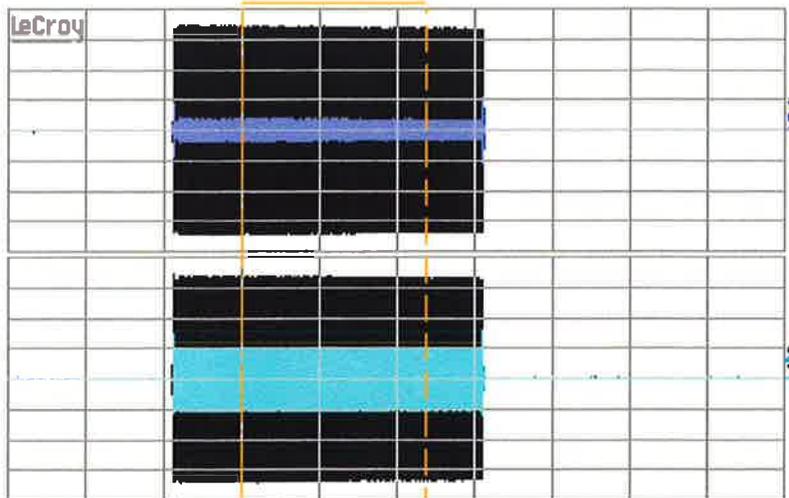
2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V

1 ms

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



2069 sweeps:

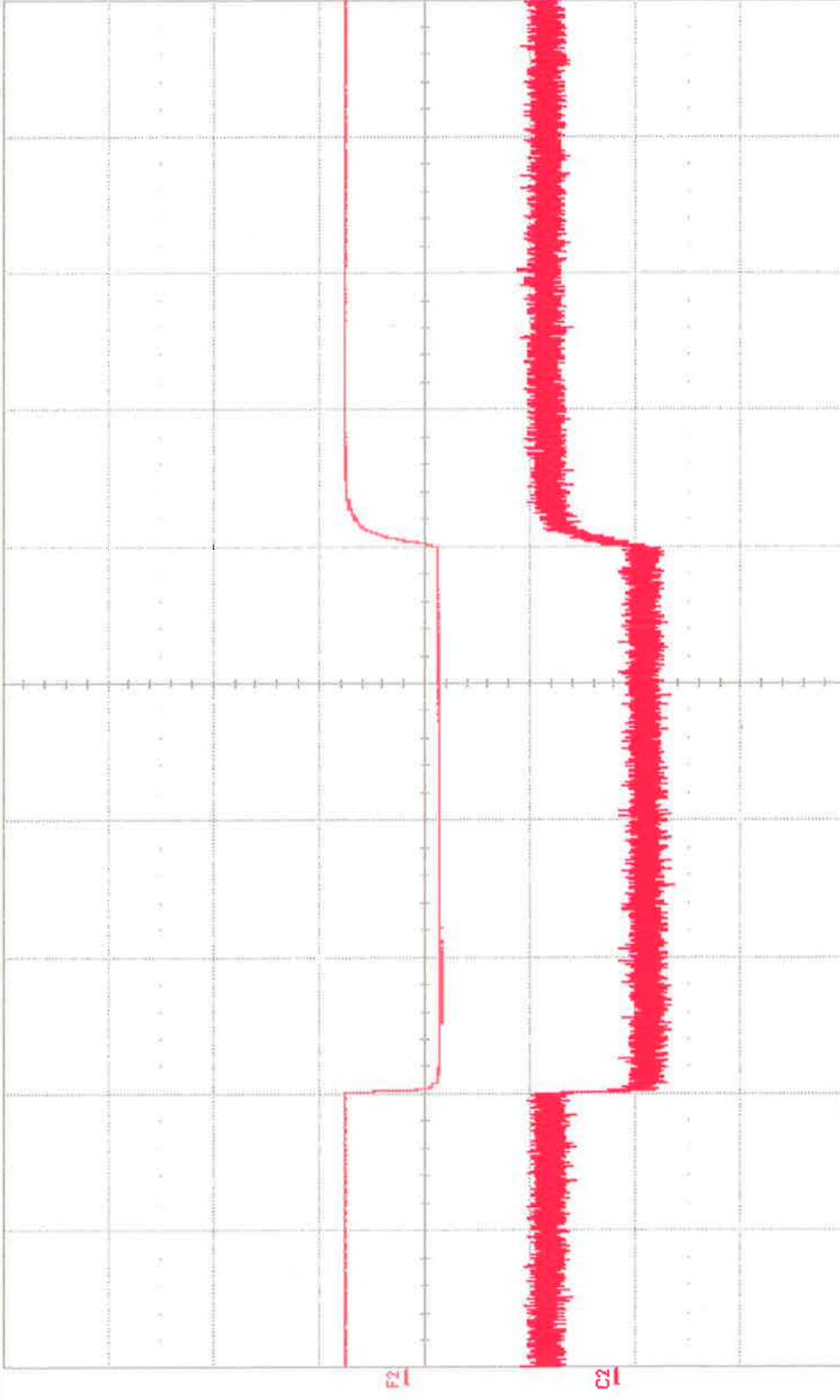
	average	low	high	sigma
rms(1)	2.311 V	2.058	2.390	0.058
rms(2)	199mV	173	225	11
rms(3)	2.281 V	2.042	2.360	0.054
rms(4)	687mV	567	735	24
phase(1,3)	-89 °	-94	-85	2



Ext10 DC 0.05 V 1M Ω

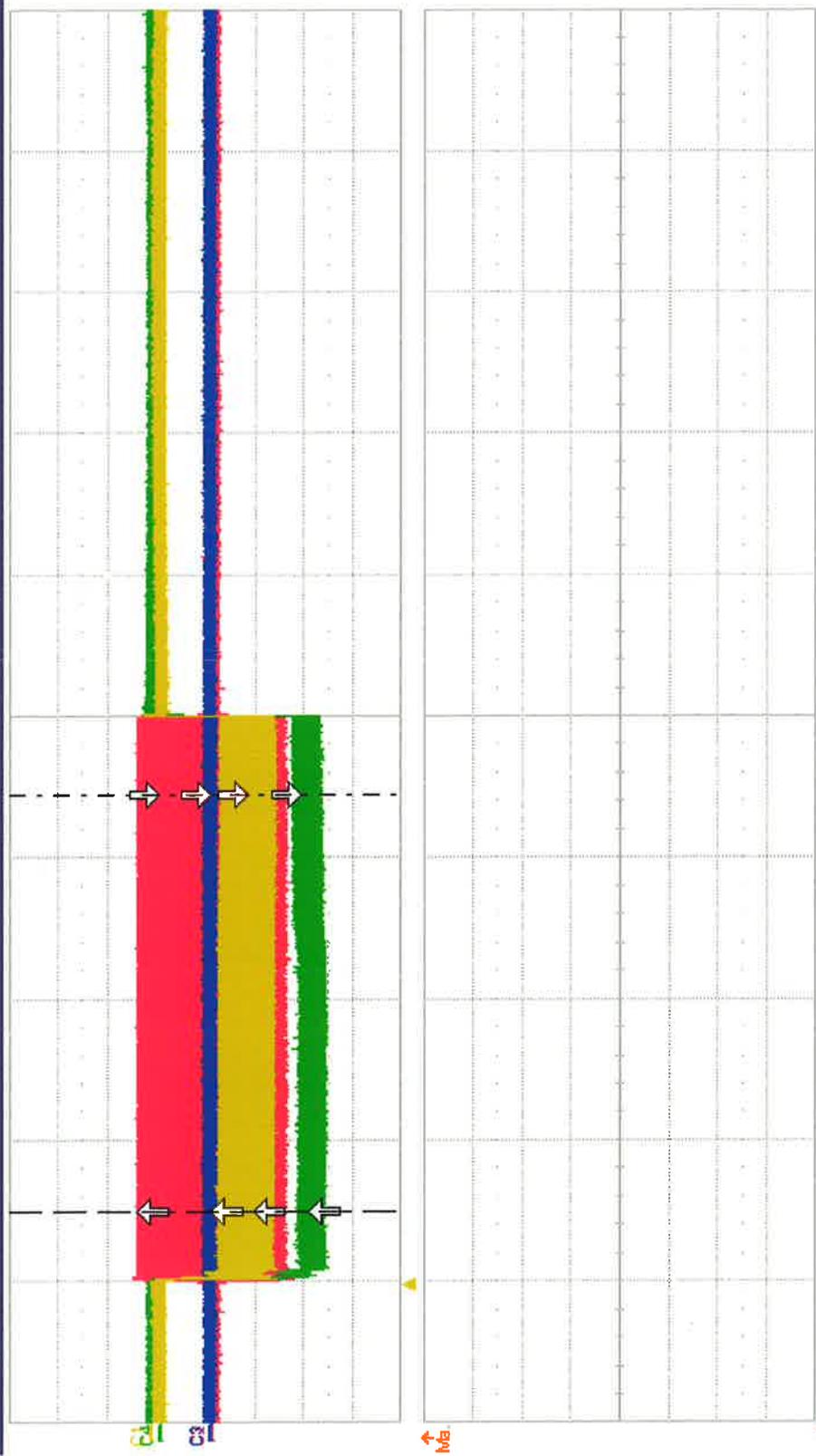
10 MS/s

NORMAL



Tbase -3.04 ms **Trigger** **C+DC**
 1.00 ms/div Normal 2.42 V
 100 kS 10 MS/s Edge Negative

C2 **DMM** <C2>
 50.0 mV/div 50.0 mV/div
 -91.5 mV 1.00 ms/div
 1.955 k#



Timebase -4.02 ms Trigger **Exit/ID** **DC**
 1.00 ms/div Normal 0.00 V
 1.00 MS 100 MS/s Edge Negative

X1= 3.46097 ms ΔX= -2.94097 ms
 X2= 520.00 μs 1/ΔX= -340.024 Hz

C1 **DCIM** 20.0 mV/div 22.00 mV/offset
 1 1 1
 Δy -38.00 mV -42.05 mV -3.75 mV

C2 **DCIM** 200 mV/div -30.0 mV/offset
 1 1 1
 Δy 145.5 mV 257.0 mV 111.5 mV

C3 **DCIM** 50.0 V/div -5.0 V offset
 1 1 1
 Δy 1.9 V -600 mV -2.4 V

C4 **DCIM** 20.0 mV/div 18.00 mV/offset
 1 1 1
 Δy -57.47 mV -56.54 mV -1.07 mV

Math **-FFT(C4)** 7.00 mV/div 52 kHz/div
 663 #

6-Dec-16
13:01:21

1
1 ms
1.00 V

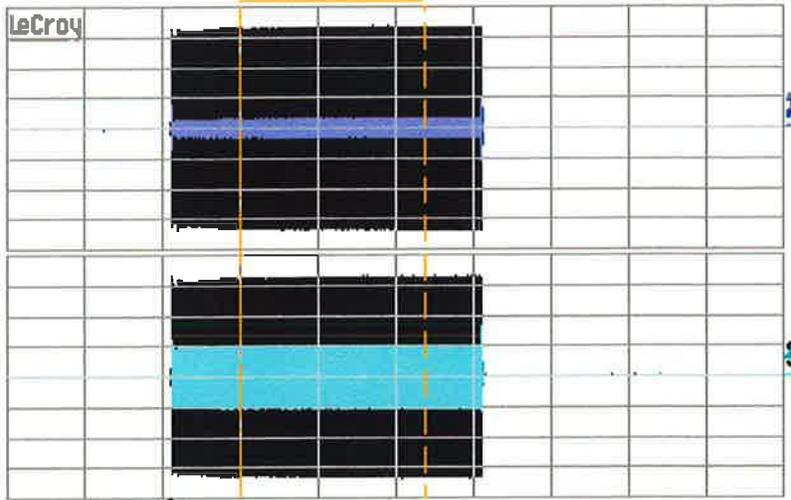
2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V

1 ms

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



75 sweeps:

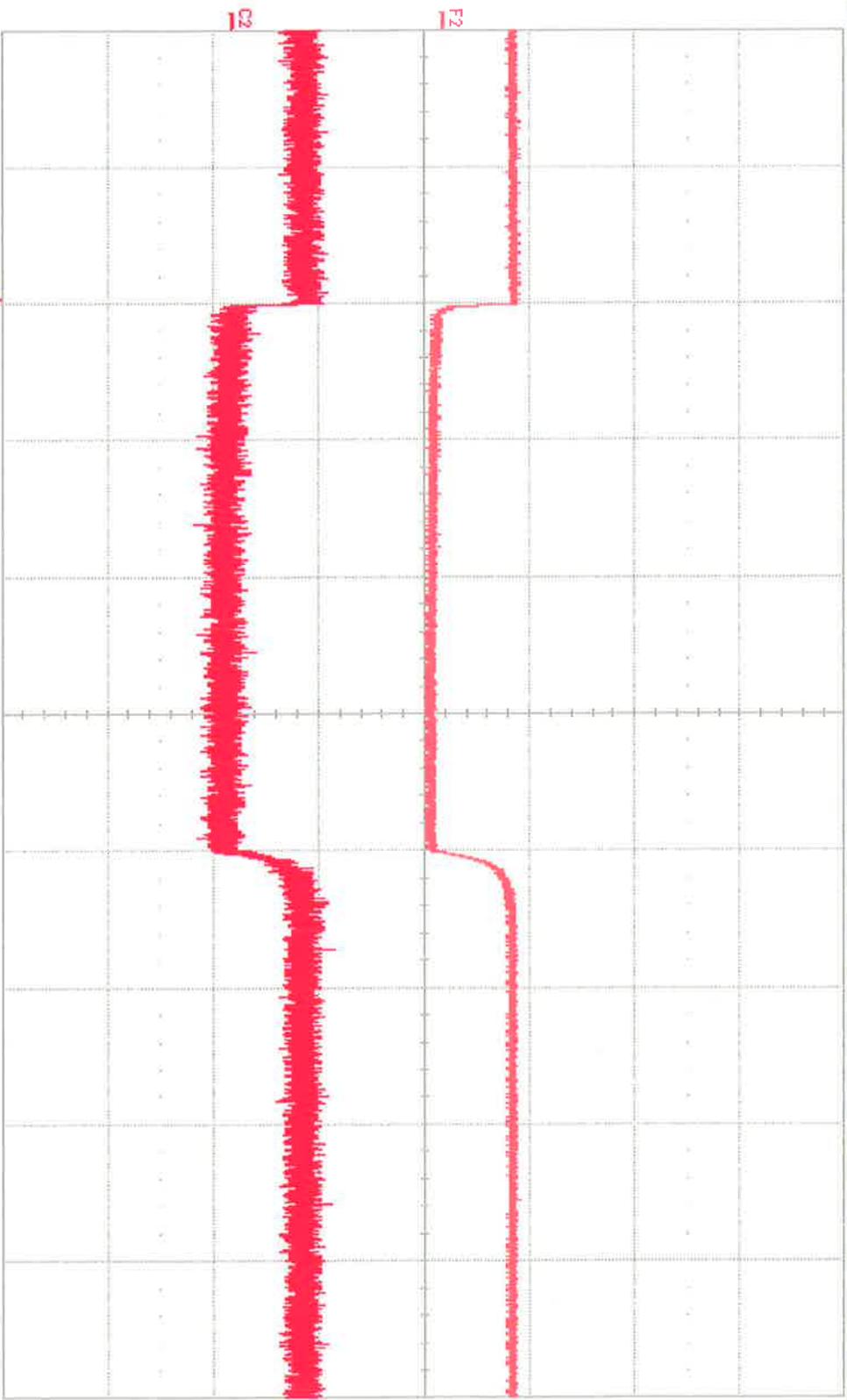
	average	low	high	sigma
rms(1)	2.354 V	2.320	2.389	0.017
rms(2)	201mV	192	210	4
rms(3)	2.309 V	2.274	2.347	0.019
rms(4)	730mV	710	757	16
phase(1,3)	-89 °	-94	-85	2



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL



C2 50.0 mV/div
-91.5 mV

F2 <C2>
50.0 mV/div
1.00 ms/div
17#

Tbase -3.04 ms
1.00 ms/div
100 kS

Trigger Normal
Edge Negative
2.42 V

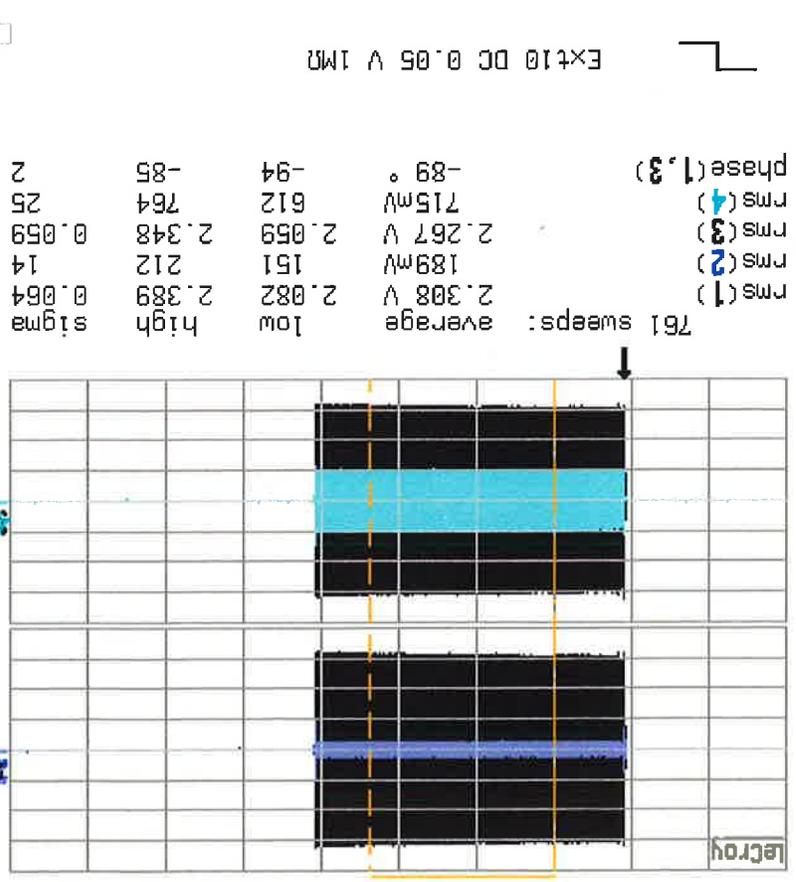
LeCroy

12/6/2016 1:03:05 PM

6-Dec-16
13:12:47

1 1 V AC 1 ms
2 1 V AC 1 ms
3 1 V AC 1 ms

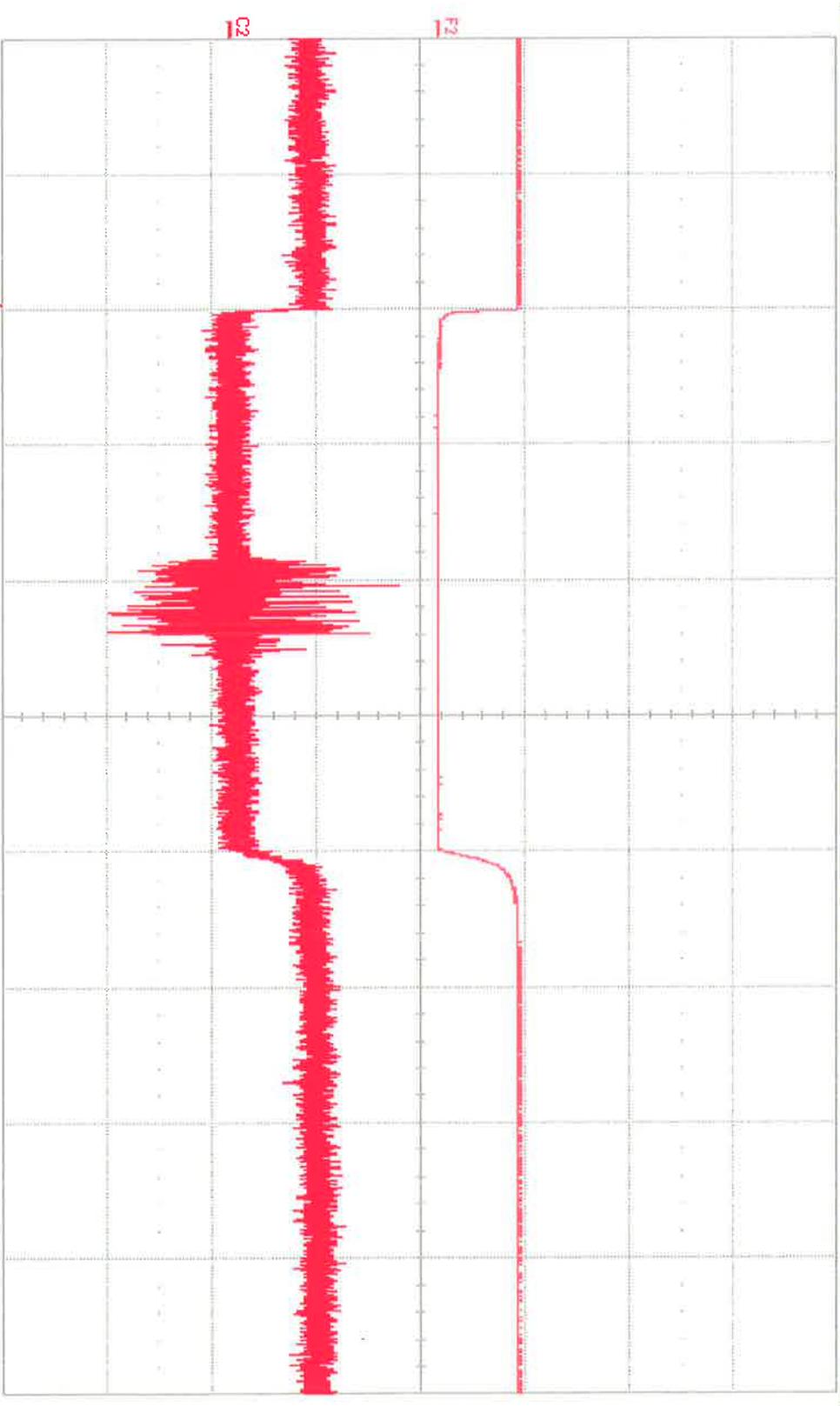
1 1 ms 1.00 V
2 1 ms 1.00 V
3 1 ms 1.00 V



sig	low	high	sigma
1	2.082	2.389	0.064
2	151	212	14
3	2.267	2.348	0.059
4	715mV	612	764
phase(1,3)	-89°	-94	-85

Ext10 DC 0.05 V 1MΩ

10 MS/s
NORMAL



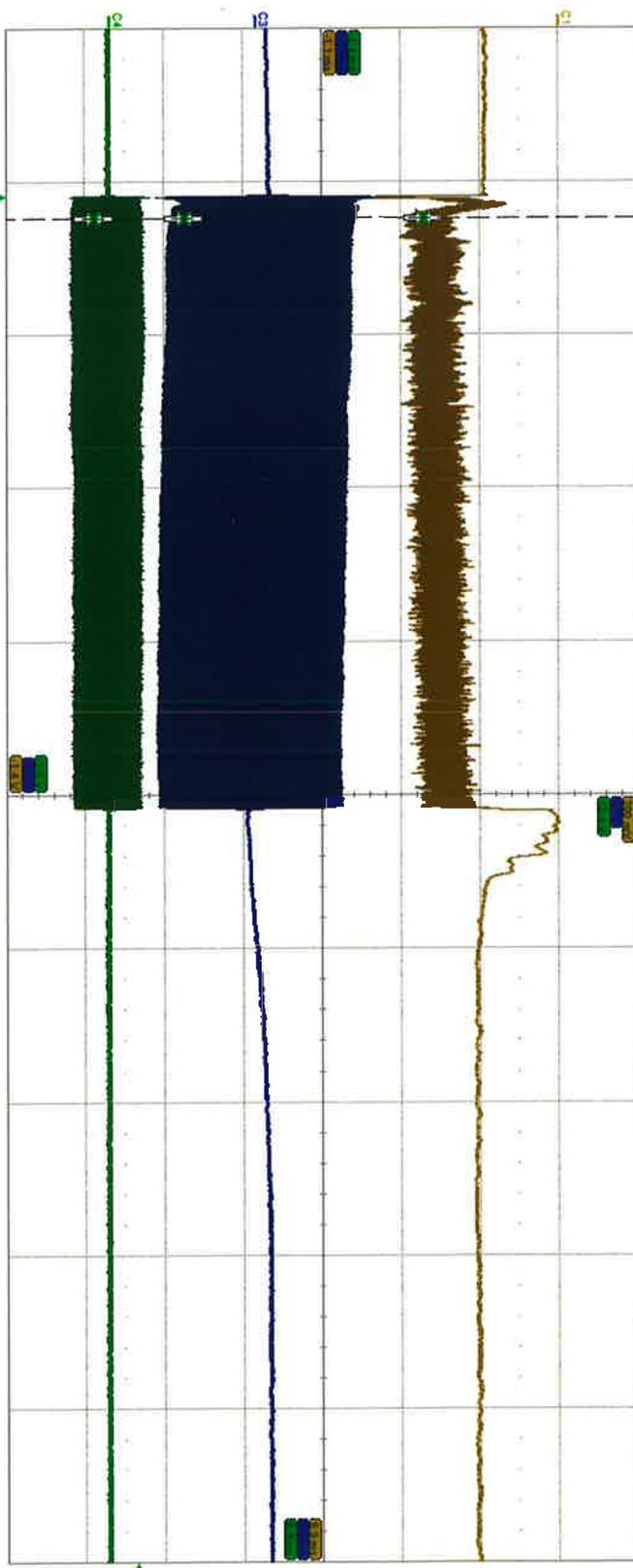
C2 **50.0 mV/div**
-91.5 mV

F2 **<C2>**
50.0 mV/div
1.00 ms/div
621 #

Tbase **-3.04 ms** **Trigger** **2.42 V**
100 kS **1.00 ms/div** **Stop**
10 MS/s **10 MS/s** **Edge** **Negative**

LeCroy

12/6/2016 1:13:13 PM



Measurement	P1:mean(C1)	P2:mean(C1)	P3:mean(C3)	P4:amp(C3)	P5:mean(C3)	P6:mean(C2)	P7:mean(C2)	P8:mean(C3)
value	-234.5 mV	-234.5 mV	-217 mV	56.64 V	1.35 V			1.35 V
mean	-230.978 mV	-230.978 mV	-217 mV	> 61.92 V	< 1.1224 V			< 1.1224 V
min	-248.9 mV	-248.9 mV	-217 mV	> 3.44 V	< -3.40 V			< -3.40 V
max	-192.5 mV	-192.5 mV	-	> 163.80 V	< 3.19 V			< 3.19 V
stdev	6.611 mV	6.611 mV	-	> 11.12 V	< 283.9 mV			< 283.9 mV
name	847	847	1	847	839			839
status				X				

TELEDYNE LECROV

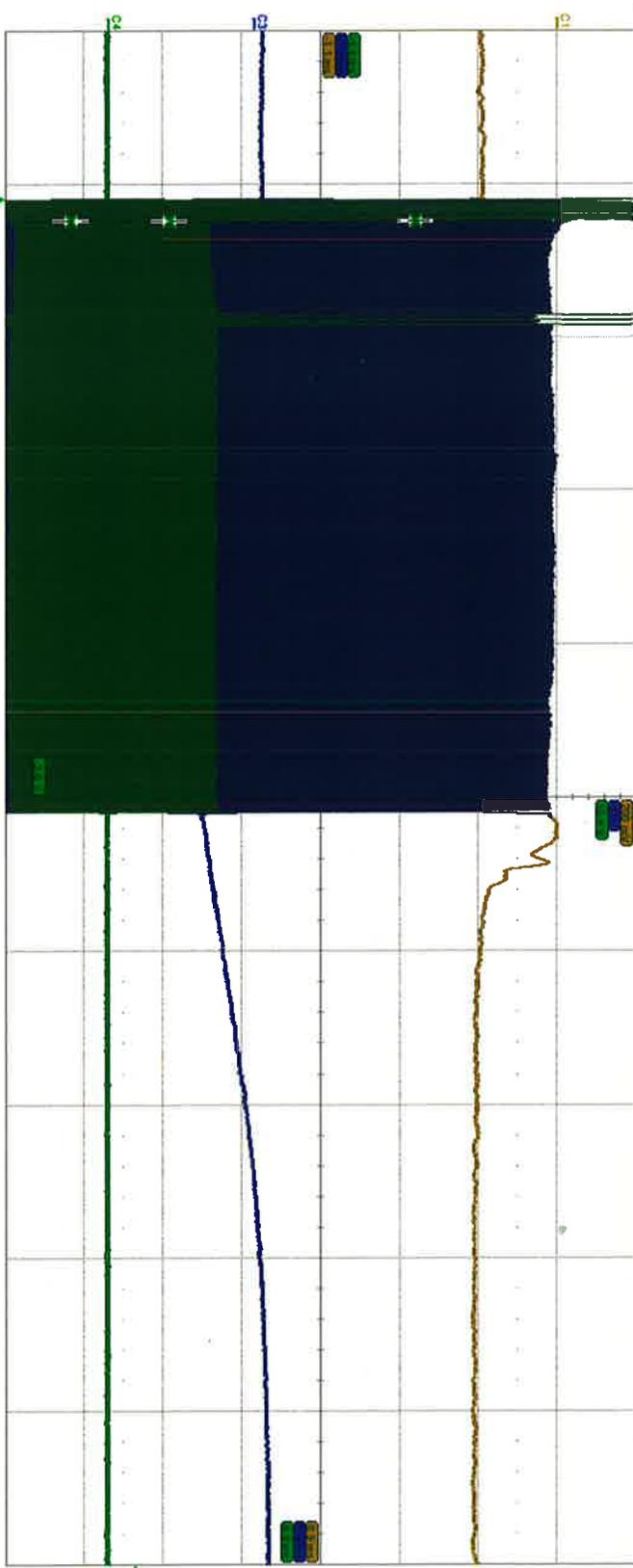
200 MHz	200 MHz	500 MHz
800.00 mV	20.00 V/div	2.00 V/div
241.73 ns	37.000 ns	5.4000 ns
241.73 ns	37.000 ns	356.0 mV
241.73 ns	37.000 ns	356.0 mV
0.000 ns	0.000 ns	0.0 mV

Timebase: 3.90 ns Trigger: C4 DC

X1= 141.6 ps DX= 0.0 ps

X2= 141.6 ps 10X=

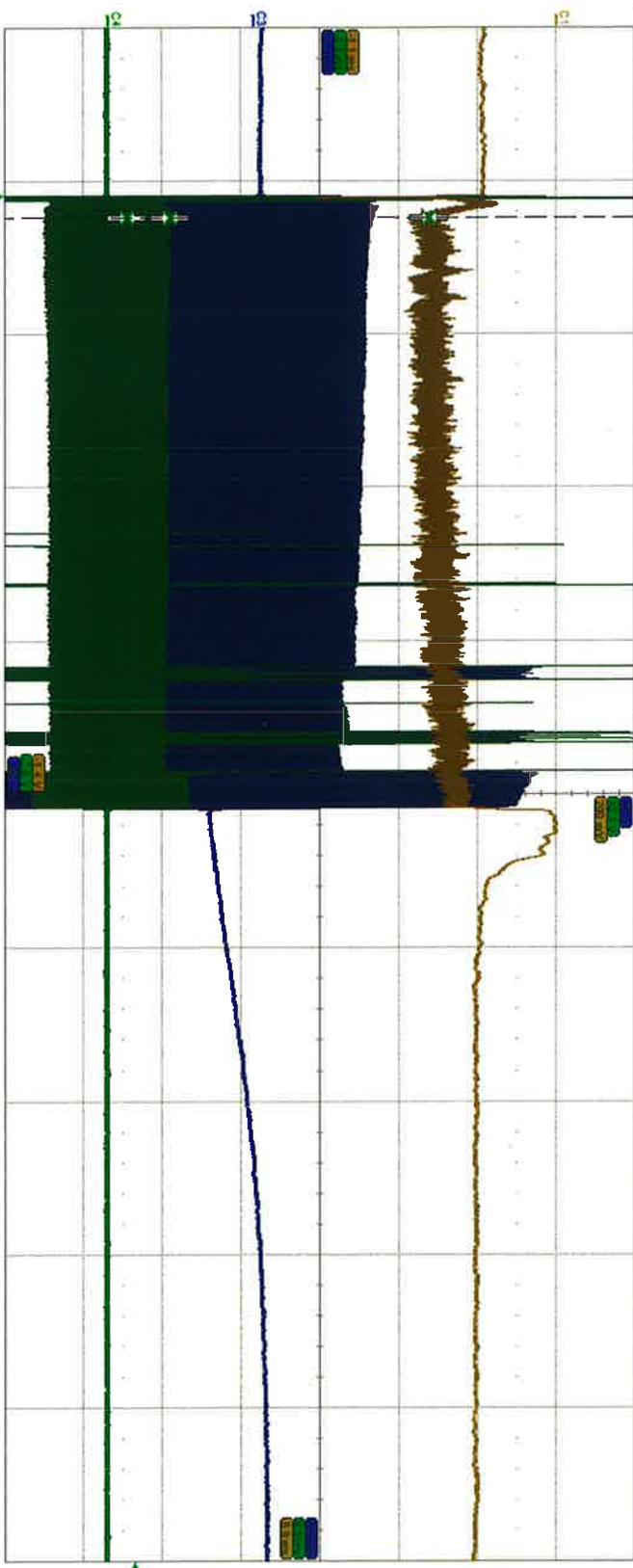
12/6/2016 1:11:40 PM



Measure	P1:mean(C1)	P2:mean(C1)	P3:mean(C3)	P4:amp(C3)	P5:mean(C3)	P6:mean(C2)	P7:mean(C2)	P8:mean(C3)
value	-244.9 mV	-244.9 mV	-537 μV	> 72.04 V	< 1.1259 V	---	---	< 1.1259 V
mean	-231.056 mV	-231.056 mV	-537 μV	> 61.77 V	< -3.40 V	---	---	< -3.40 V
min	-248.9 mV	-248.9 mV	-537 μV	> 3.44 V	< 3.19 V	---	---	< 3.19 V
max	-192.5 mV	-192.5 mV	-537 μV	> 163.80 V	< 279.1 mV	---	---	< 279.1 mV
sdv	6.513 mV	6.513 mV	---	> 10.92 V	---	---	---	---
min	885	885	---	---	876	---	---	876
stats	✓	✓	✓	⇅	⇅	---	---	⇅

C1 250 THRESH 400.00 mV -261.52 mV -261.52 mV 0.00 mV	0.00 mV 23.0 V/div 17.000 V -44.220 V -45.210 V 0.00 mV	0.00 mV 2.00 V/div -5.4000 V 1.5683 V 1.5683 V 0.0 mV
---	--	--

TELEDYNE LECTROV



Measure	P1:mean(C1)	P2:mean(C1)	P3:mean(C3)	P4:amp(C3)	P5:mean(C3)	P6:mean(C2)	P7:mean(C2)	P8:mean(C3)
value	-231.4 mV	-231.4 mV	-723 mV	> 157.00 V	< -1.62 V			< -1.62 V
mean	-230.846 mV	-230.846 mV	-723 mV	> 62.19 V	< 1.0885 V			< 1.0885 V
min	-248.9 mV	-248.9 mV	-723 mV	> 3.44 V	< -3.40 V			< -3.40 V
max	-192.5 mV	-192.5 mV	-723 mV	> 163.80 V	< 3.19 V			< 3.19 V
stdev	6.545 mV	6.545 mV		> 11.40 V	< 345.7 mV			< 345.7 mV
status	915	915	1	915	906			906

BWL DCTM 200 mV/div 600.00 ns/div -321.95 mV -321.95 mV 0.00 ns	20.0 V/div -37.000 V -32.910 V -30.610 V 0.00 ns	2.00 MHz 5.40000 V 507.210V 507.210V 0.00 ns
---	--	--

TELEDYNE LEICROY

Phase -3.90 ms Trigger C4 DC
 X1= 141.6 us DX= 0.0 us
 X2= 141.6 us 10X=

12/6/2016 1:13:10 PM

6-Dec-16
13:26:59

1
1 ms
1.00 V

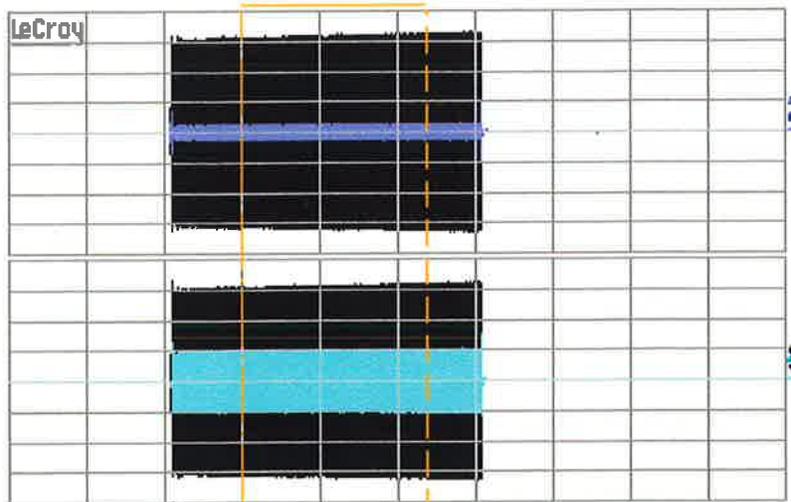
2
1 ms
1.00 V

3
1 ms
1.00 V

4
1 ms
1.00 V

1 ms

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



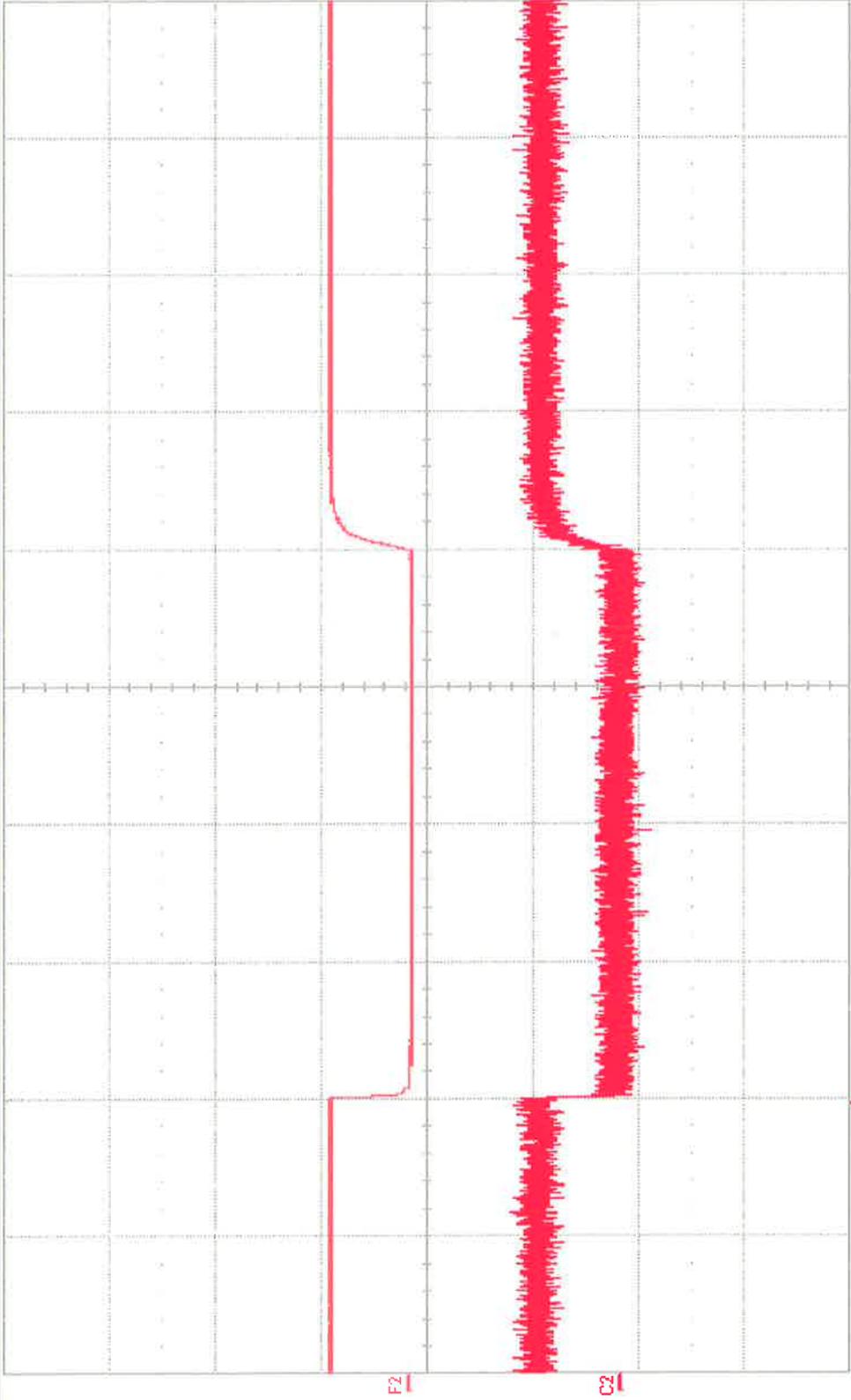
		1613 sweeps:	average	low	high	sigma
rms(1)			2.299 V	2.080	2.389	0.066
rms(2)			185mV	151	212	15
rms(3)			2.260 V	2.056	2.348	0.060
rms(4)			719mV	612	764	24
phase(1,3)			-89 °	-94	-85	2



Ext10 DC 0.05 V 1MΩ

10 MS/s

NORMAL



C2 **DCIM**
50.0 mV/div
-91.5 mV

F2 **<C2>**
50.0 mV/div
1.00 ms/div
1.446 k#

Tbase -3.04 ms Trigger **C4 DC**
1.00 ms/div Normal 2.42 V
100 kS 10 MS/s Edge Negative