



Summary Data
For
ERDLVA-218-CW-75MV

Customer: _____ Tested By: Jim Hopson
 SO No: _____ Temperature: 25C
 Model No: ERDLVA-0R5G2G-CW-75MV-93 Date 5/14/2024
 Serial No: PL38153/2242 Drawing No: 27643280 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.5 to 2.0 GHz	0.5 to 2.0 GHz	PMI QA3 <hr style="border: 1px solid black;"/>
2	VSWR:	2.5:1 MAX @ -20 dBm	1.74:1 MAX	
3	Input Power:	23 dBm Max.	Pass	
4	VIDEO OUT TSS:	-42 dBm MAX	-44 dBm	
5	VIDEO OUT Dynamic Range:	-40 to +20 dBm	-40 to +20 dBm	
6	VIDEO OUT Log Slope Fixed:	75 ± 10mV/dB	75.6-73.6mV/dB	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C ±1.5 dB MAX @ Over Temperature	.71/- .70 db	
8	VIDEO OUT DC Offset:	0 to 125 mV @25C	80mV	
9	VIDEO OUT Rise Time (10% to 90%):	25 ns MAX	18.8ns	
10	VIDEO OUT Settling Time:	±0.5dB within 25ns from 90%	<0.5dB	
11	VIDEO OUT Recovery Time:	500ns MAX	240ns	
12	VIDEO OUT Video Frequency Flatness:	3.0 dB p-p MAX @ -20dBm	1.4dB p-p MAX @ -20dBm	



**Summary Data
For
ERDLVA-218-CW-75MV**

		CW Immune Power -50 to -10 dBm	Pass	PMI QA3
13	VIDEO OUT CW Immunity:	CW Attack Time 1500us MAX	1400us	
		CW Release Time 250us	30us	
17	Pulse droop	1dB Max for 250us pulses	<1dB	
18	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	100 ns to 300 us	
19	VIDEO LOAD Impedance:	93 ±1 Ω	93Ω	
21	VIDEO OUT Noise Level (RMS):	102 mV max	23mV RMS	
22	VIDEO OUT Propagation Delay:	35 ns MAX from RF 10% to 10% video (excluding cable)	19ns	
23	Power Supply	+12 V @ 250 mA MAX -12 V @ 250 mA MAX	+12 V @ 150 mA -12 V @ 70 mA	

QA/QC Approval: *K. Luter*

Date: 5-14-24



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LOG TRANSFER WITH FREQUENCY
 MODEL: ERDLVA-0R5G2G-CW-75MV-93V
 TESTED BY: Jim Hopson
 DATE: 05-14-24
 SERIAL NO: PL38153
 Test Temp: +25C

Frequency	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20
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0.5 GHz	301	686	1067	1462	1856	2194	2589	3006	3288	3671	4075	4514	4853
	-13	-6	-3	14	30	-10	7	46	-50	-45	-18	43	4
	-0.17	-0.08	-0.04	0.19	0.40	-0.13	0.10	0.61	-0.66	-0.59	-0.24	0.56	0.05

1.25 GHz	415	834	1216	1586	1961	2283	2652	3065	3417	3840	4242	4588	4886
	-29	15	23	18	19	-34	-39	-1	-23	25	53	24	-52
	-0.39	0.20	0.30	0.24	0.25	-0.45	-0.52	-0.01	-0.31	0.34	0.71	0.33	-0.70

2 GHz	381	799	1178	1554	1931	2253	2624	3028	3335	3753	4134	4500	4798
	-46	4	15	23	31	-15	-12	24	-37	12	25	23	-47
	-0.62	0.05	0.20	0.31	0.43	-0.20	-0.16	0.32	-0.51	0.17	0.34	0.31	-0.64

Flatness P-P	1.6	2.0	2.0	1.6	1.4	1.2	0.8	0.8	1.8	2.2	2.2	1.2	1.2
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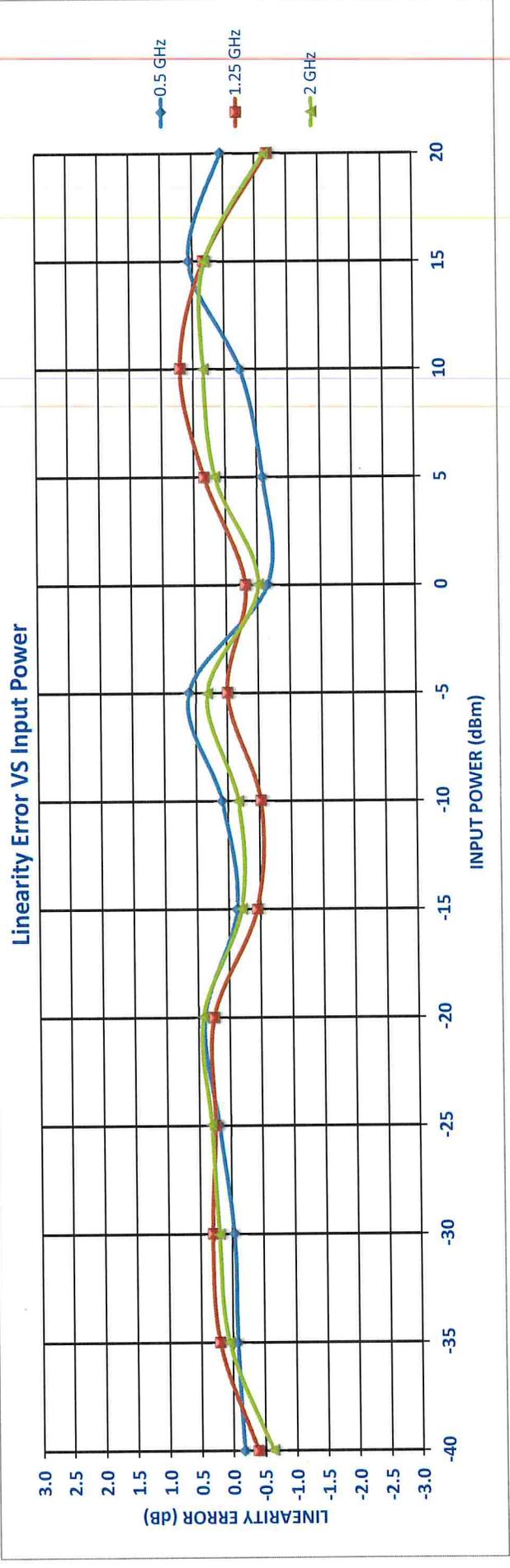
Slope Avg(mv/dB)	74.7
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RF Input Power (dBm)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

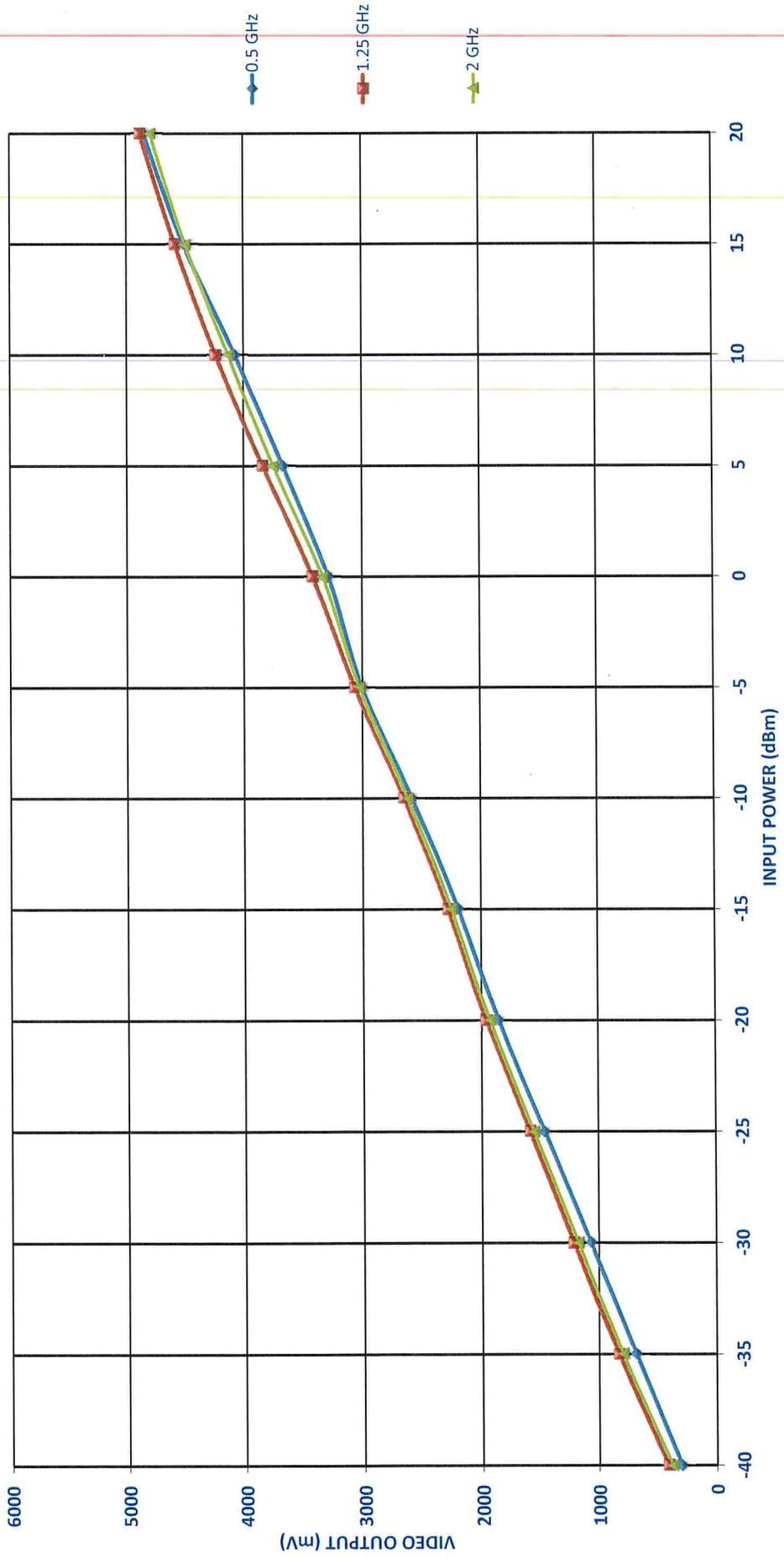
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)



LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-0R5G2G-CW-75MV-93V
SERIAL NO: PL38153
Test Temp: +25C

Video Out VS Input Power



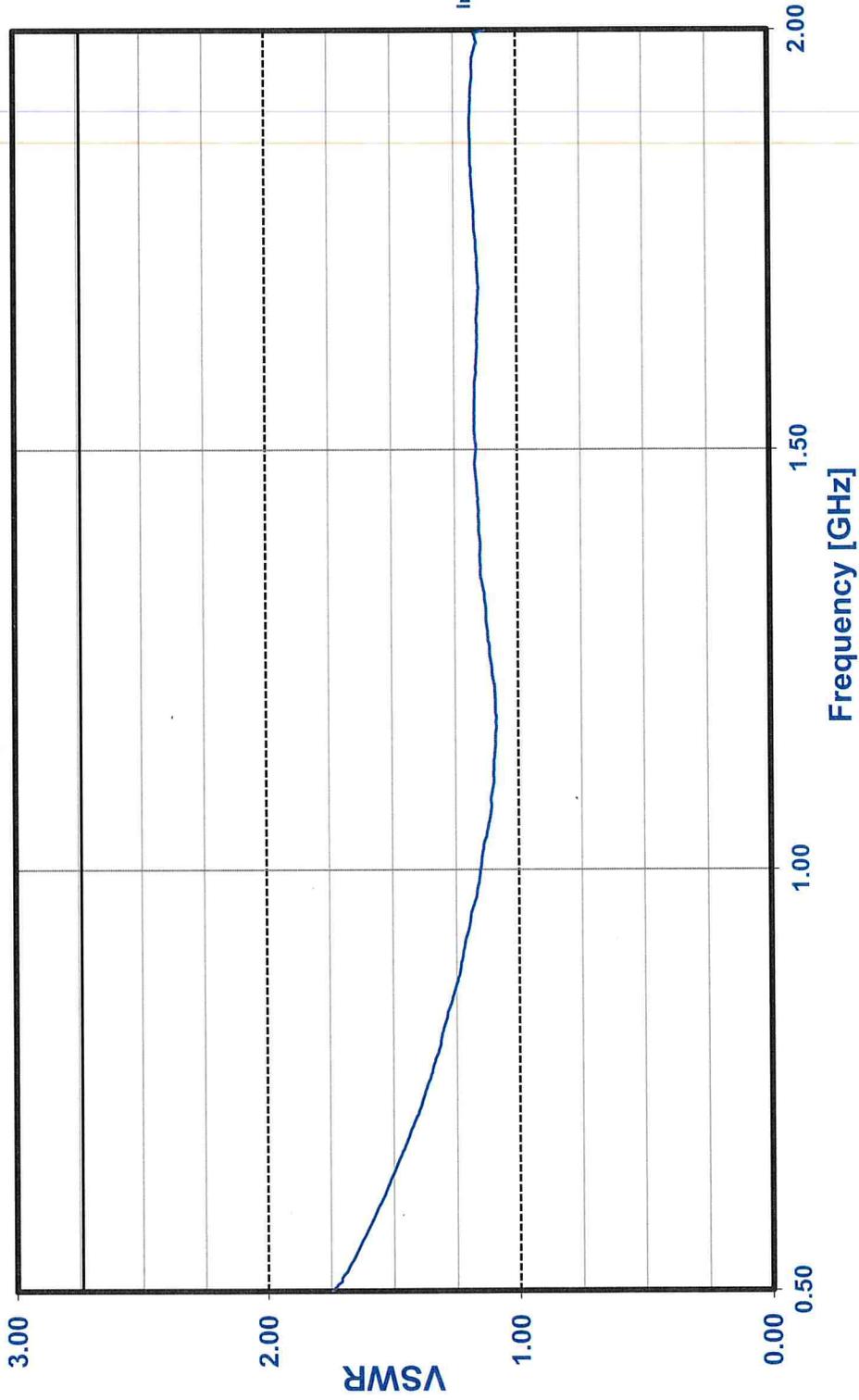
Model Number: ERDLVA-0R5G2G-CW-75MV-93

Serial Number: PL38153

Date: 5/14/2024

Temperature: +25C

PL38153 VSWR GRAPH



PL38153

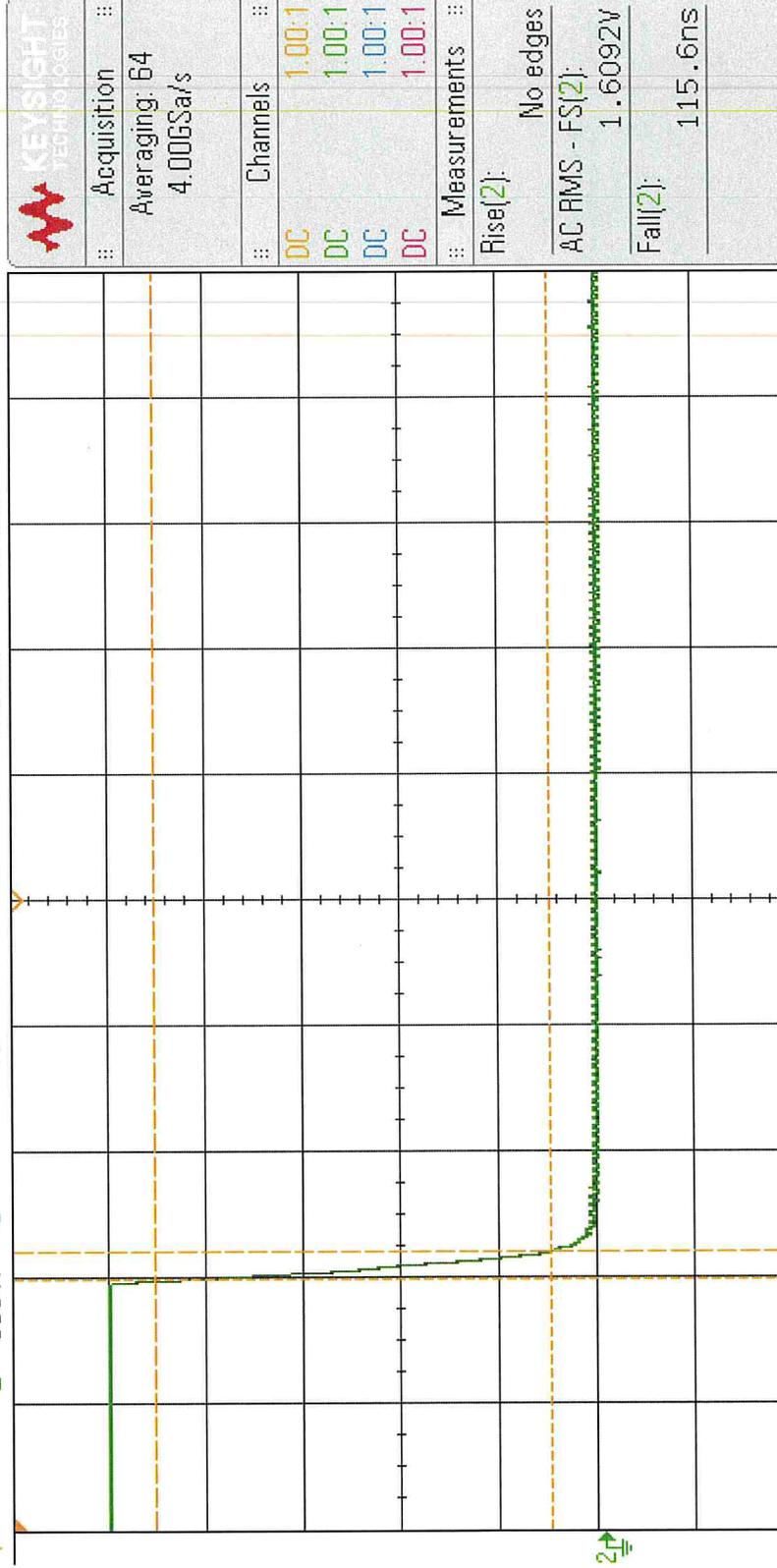
Recovery / Fall

DSO-X 3034A, MY52394003: Tue May 14 11:06:50 2024

1 2 800V / 3 4

2.052ns 500.0ns / Auto

f E 2.12V



KEYSIGHT
TECHNOLOGIES

Acquisition ::
Averaging: 64
4.00GSa/s

Channels ::
DC 1.00:1
DC 1.00:1
DC 1.00:1
DC 1.00:1

Measurements ::
Rise(2): No edges
AC RMS - FS(2): 1.6092V
Fall(2): 115.6ns

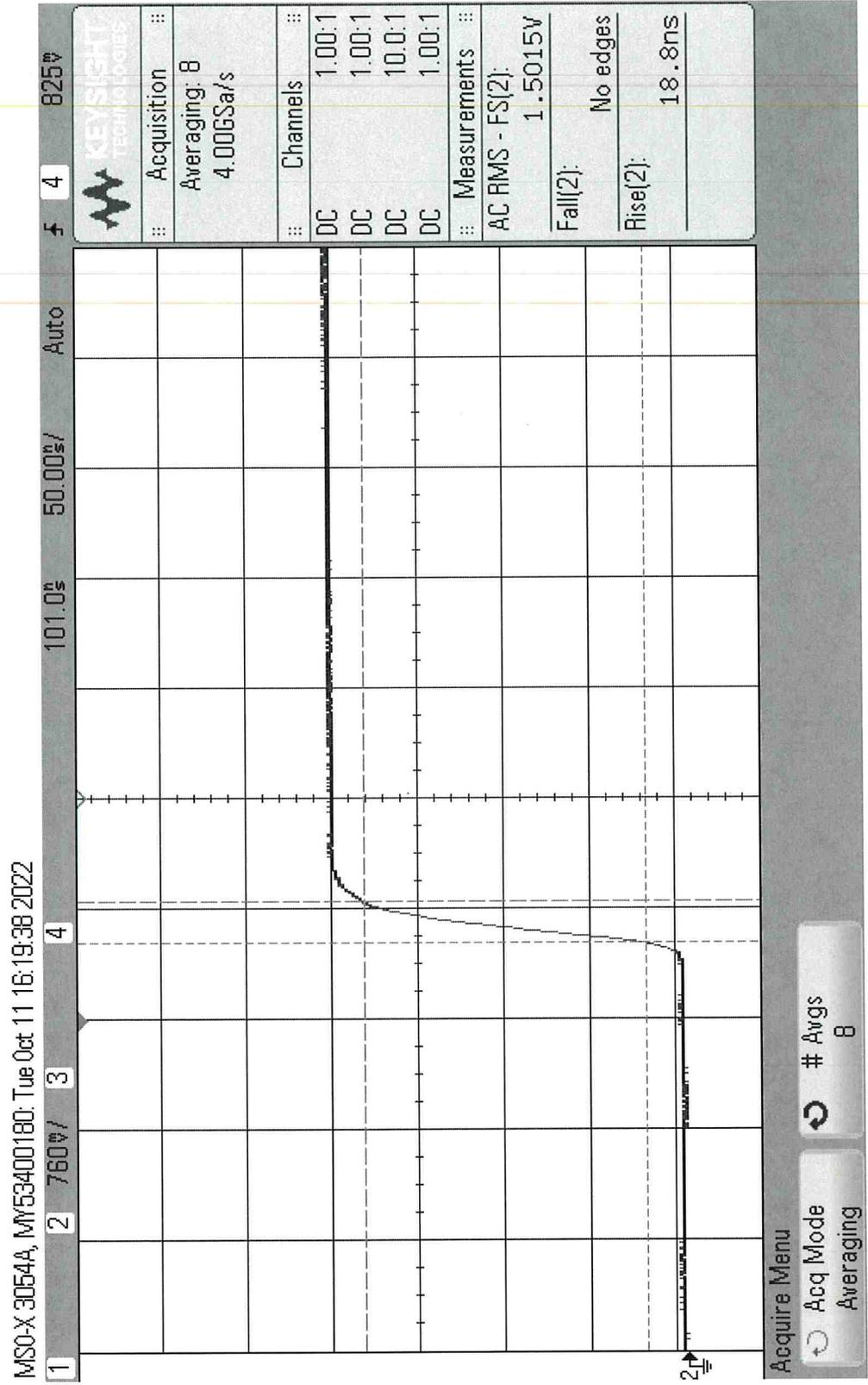
Acquire Menu

Acq Mode Averaging

Avgs 64

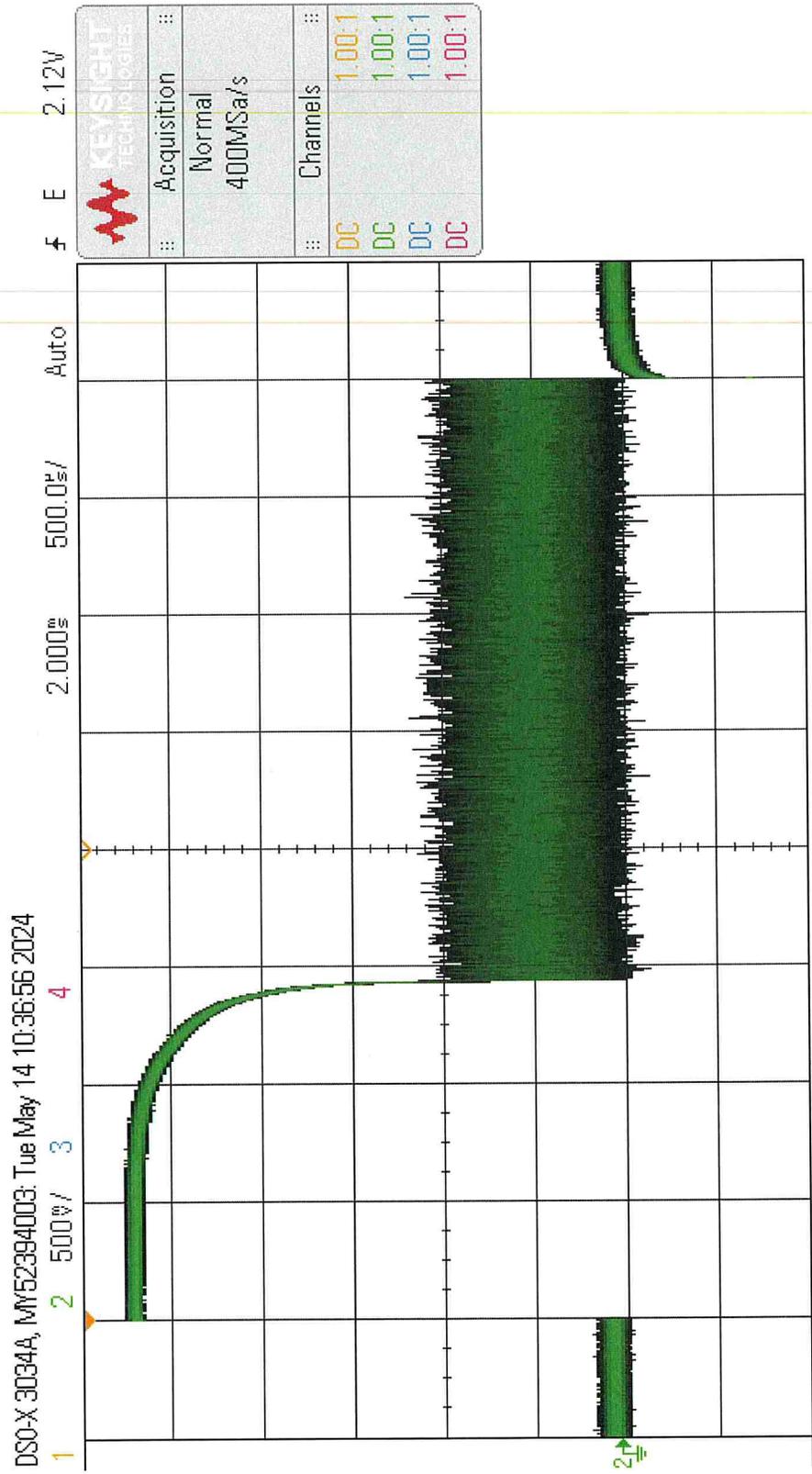
Segmented

PL38153
settle / Rise



PL38153

CW Immune

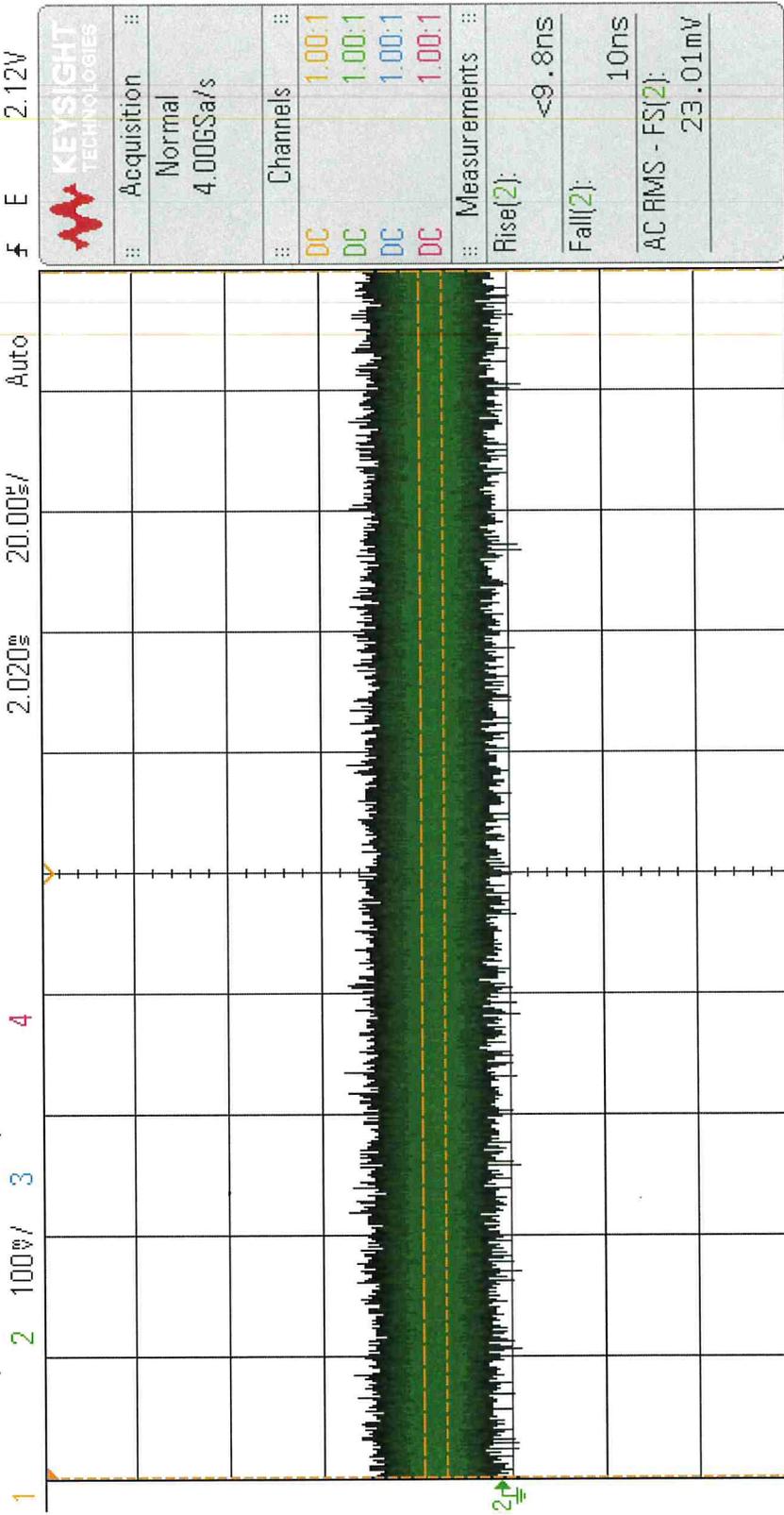


Cursors Menu
Mode Off

To turn on cursors, press the [Cursors] key on the front panel.

PL38153
RMS noise

DSO-X 3034A, MY52394003, Tue May 14 10:42:06 2024



Measurement Menu

Source 2

Type: AC RMS - FS

Add Measurement

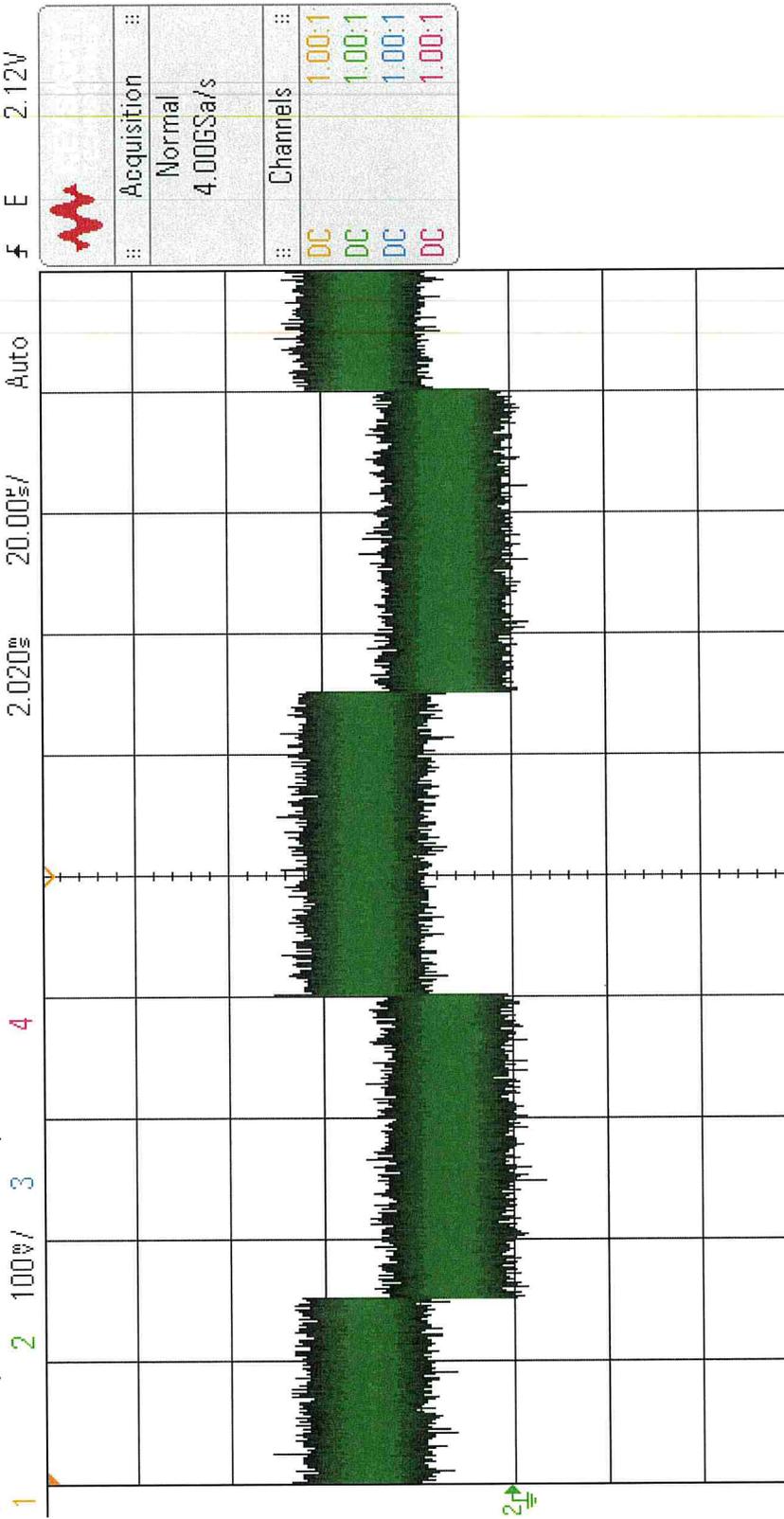
Settings

Clear Meas

Statistics

PL38153
TSS -49 dbm

DSO-X 3034A, MY52394003, Tue May 14 10:43:48 2024



Acquisition	:	:
Normal	:	:
4.00GSa/s	:	:
Channels	:	:
DC	:	1.00:1

Save to file = pl38153_tss_44

Spell Enter Delete Character Increment Press to Save