



Summary Data
For
ERDLVA-2G18G-65-70MV-85C

Customer: _____ Tested By: Jim Hopson
 SO No: _____ Temperature: +25°C
 Model No: ERDLVA-2G18G-65-70MV-85C Date 4/30/2024
 Serial No: PL45186/2418-Demo Drawing No: 27642020 Rev: B1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 18 GHz	2 to 18 GHz	
2	VSWR:	2.2:1 MAX @ 50 Ω	1.88:1 MAX	
3	Input Power:	(1) 1 W CW, Max. (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%, Max.	Pass	
4	VIDEO OUT TSS:	-71 dBm MAX	-71 dBm	
5	VIDEO OUT Dynamic Range:	-65 to 0 dBm	-65 to 0 dBm	
6	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	70 mV/dB TYP	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C	.46/-.46 dB MAX @25C	
8	VIDEO OUT Log Accuracy:	±2.3 dB MAX @25C	.70/-.69 dB MAX @25C	
9	VIDEO OUT Absolute Log Accuracy:	±2.6 dB MAX Over Freq & temp		
10	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On) @25C	34 mV	
11	VIDEO OUT Rise Time (10% to 90%):	28 ns MAX	36.3 ns	
12	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	130.6 ns	
13	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value @-10 dBm	< 50 ns	



**Summary Data
For
ERDLVA-2G18G-65-70MV-85C**

14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	< 1us	
15	VIDEO OUT Video Frequency Flatness:	±2.0 dB MAX @25C	± .6 @25C	
16	VIDEO OUT CW Immunity:	CW Immune Power TSS to -40 dBm	Pass	
		Pulse Peak Amplitude Loss; 2 dB MAX @ -40dBm CW	< 2.0dB	
		Baseline shift 200mV @-40dBm CW	< 200 mv	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	1.5 ms	
		CW Recovery Time at CW = -40 dBm, ≤ 20 us	< 20us	
17	Pulse droop	1dB Max for 300us pulse at or above 65dBm	< 1dB	
18	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	100 ns to 300 us	
19	VIDEO LOAD Impedance:	75 ±1 Ω	75Ω	
20	VIDEO driver capability	100 ft RG11 into 75 ohm load	Pass	
21	Pulse density capability	10% duty cycle 100 ns, 70% duty cycle 300 us at peak power -10 dBm with 1 dB variable for pulse amplitude and baseline	< 1dB	



Summary Data
For
ERDLVA-2G18G-65-70MV-85C

21	VIDEO OUT Noise Level (Vp-p):	160 mV max	161.7 mv	
22	VIDEO OUT Propagation Delay:	50 ns MAX from RF 50% to 10% video (excluding cable)	< 50ns	
23	Power Supply	+15 V @ 500 mA MAX -15 V @ 100 mA MAX	+15 V @ 310 mA -15 V @ 80 mA	
24	Power Supply Ripple From DC to 10 MHz	100 mV MAX	Pass	

QA/QC Approval: _____ Date: _____

LOG TRANSFER WITH FREQUENCY

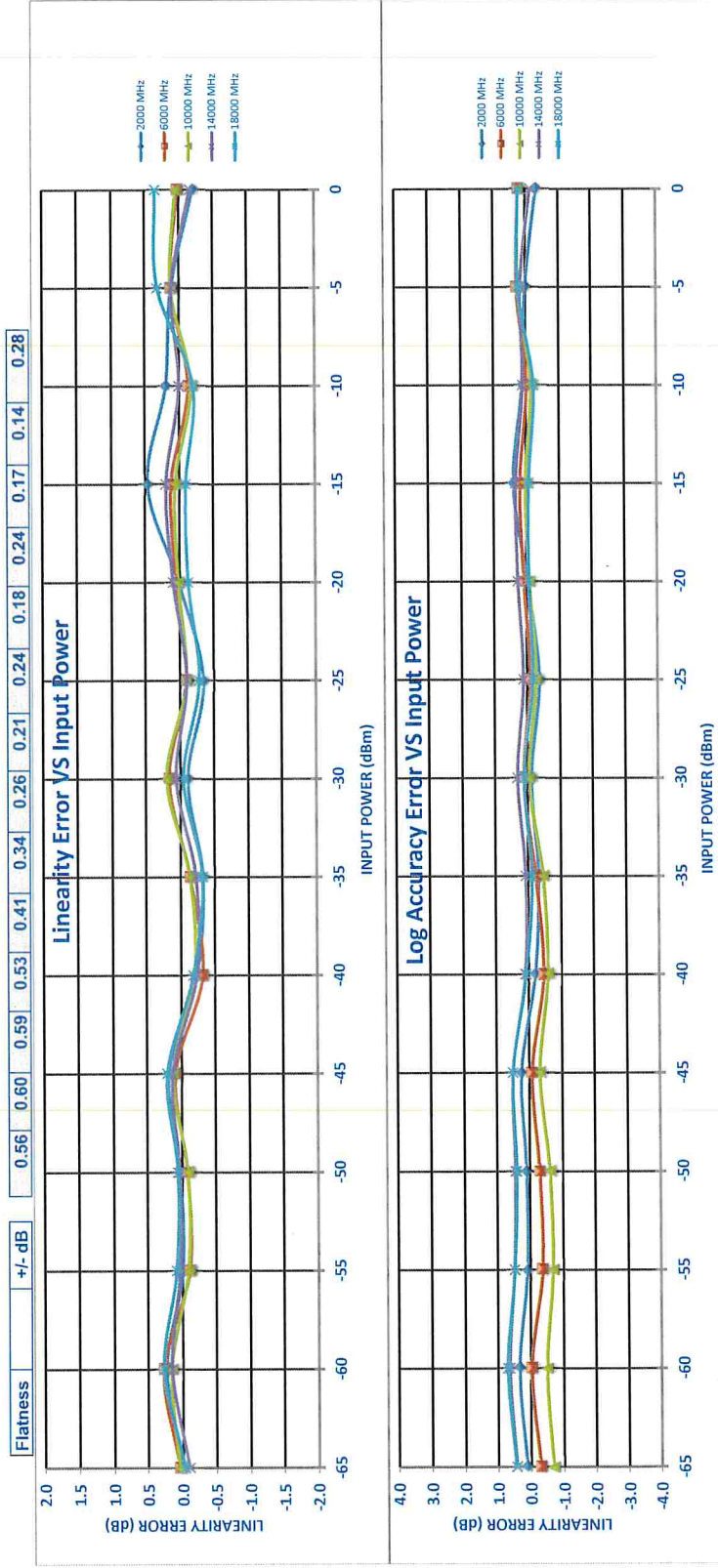
TESTED BY: Jim Hopson
 MODEL: ERDLVA-2G18G-65-70MV-85C
 SERIAL NO: PL45186
 DATE: 4-30-24

Test Temp: +25°C



PLANAR MONOLITHICS INDUSTRIES
 4921 Robert J. Mathews Parkway STE 1
 TEL: 916-542-1401 FAX: 301-662-1731
 EMAIL: SALES@PMI-RF.COM
 ISO 9001:2000 CERTIFIED

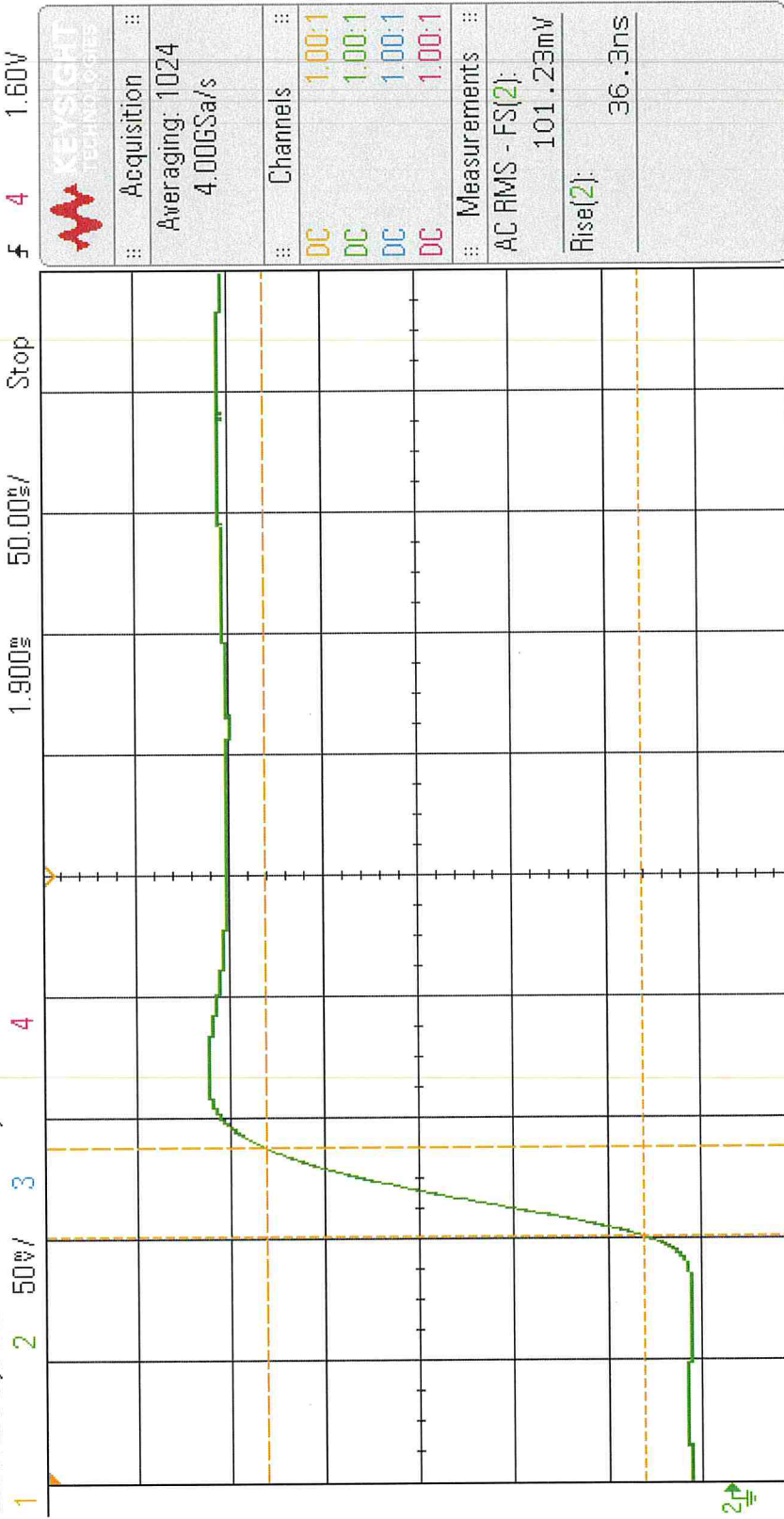
Frequency	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
2000 MHz	349	715	1047	1398	1758	2077	2419	2793	3115	3489	3869	4199	4542	4868
	-1	16	0	2	13	-16	-23	-8	-24	1	32	14	8	-15
	-0.01	0.23	0.00	0.03	0.19	-0.23	-0.33	-0.11	-0.35	0.02	0.46	0.20	0.12	-0.21
	0.11	0.34	0.09	0.10	0.24	-0.20	-0.31	-0.11	-0.37	-0.03	0.40	0.11	0.01	-0.33
6000 MHz	320	689	1015	1370	1735	2059	2425	2799	3134	3497	3855	4190	4561	4907
	3	19	-8	-6	6	-23	-10	11	-7	3	8	-10	9	2
	0.04	0.27	-0.11	-0.08	0.09	-0.32	-0.14	0.16	-0.09	0.05	0.12	-0.13	0.12	0.02
	-0.30	-0.03	-0.37	-0.30	-0.09	-0.46	-0.23	0.11	-0.10	0.09	0.20	-0.01	0.29	0.23
10000 MHz	293	656	993	1348	1718	2050	2409	2788	3122	3485	3843	4181	4557	4907
	3	12	-6	-6	9	-14	-10	14	-7	1	4	-12	9	4
	0.05	0.16	-0.09	-0.09	0.12	-0.20	-0.14	0.20	-0.10	0.02	0.06	-0.18	0.12	0.05
	-0.69	-0.50	-0.69	-0.61	-0.33	-0.59	-0.46	-0.04	-0.27	-0.09	0.03	-0.14	0.23	0.23
14000 MHz	371	736	1075	1422	1776	2098	2446	2813	3149	3510	3864	4198	4553	4881
	-7	11	3	2	9	-16	-16	4	-7	7	13	0	8	-11
	-0.10	0.16	0.04	0.03	0.13	-0.23	-0.22	0.06	-0.10	0.10	0.19	0.00	0.11	-0.16
	0.43	0.64	0.49	0.44	0.50	0.10	0.07	0.31	0.11	0.27	0.33	0.10	0.17	-0.14
18000 MHz	372	740	1074	1419	1776	2096	2433	2799	3129	3487	3836	4175	4558	4907
	-2	19	6	4	14	-12	-22	-3	-20	-9	-6	-14	22	24
	-0.03	0.27	0.09	0.06	0.21	-0.18	-0.32	-0.04	-0.29	-0.13	-0.09	-0.21	0.32	0.35
	0.44	0.70	0.47	0.40	0.50	0.07	-0.11	0.11	-0.17	-0.06	-0.07	-0.23	0.24	0.23



PL45186
RiseTime @ -65

1024 smoothing Avg

DSO-X 3034A, MY52394003: Wed May 01 10:59:43 2024



Acquire Menu

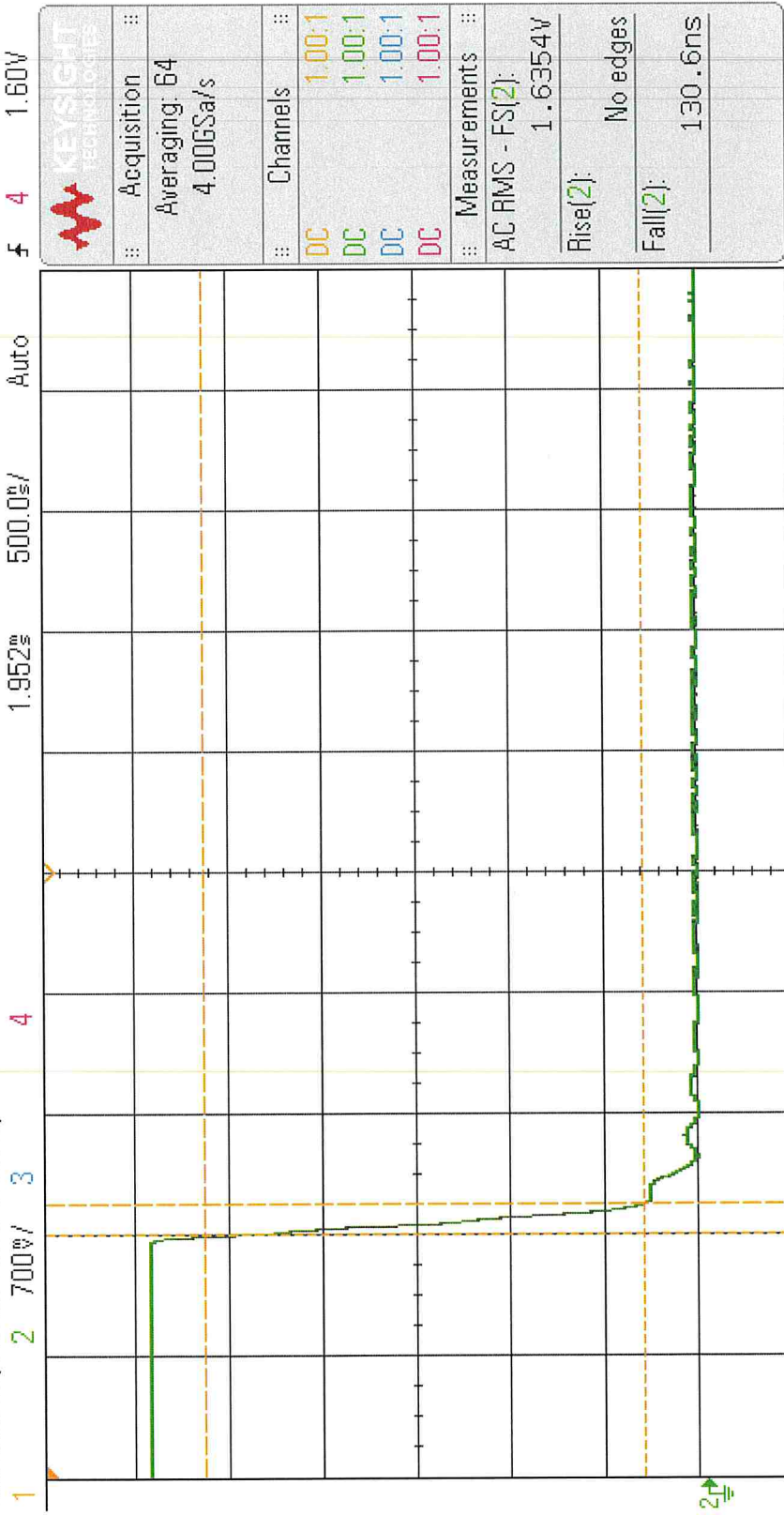
Acq Mode
Averaging

Avgs
1024

Segmented

PL45186
Recovery/Fall

DSO-X 3034A, MY52394003: Wed May 01 11:02:40 2024



Measurement Menu

Source 2

Type: Fall

Add Measurement

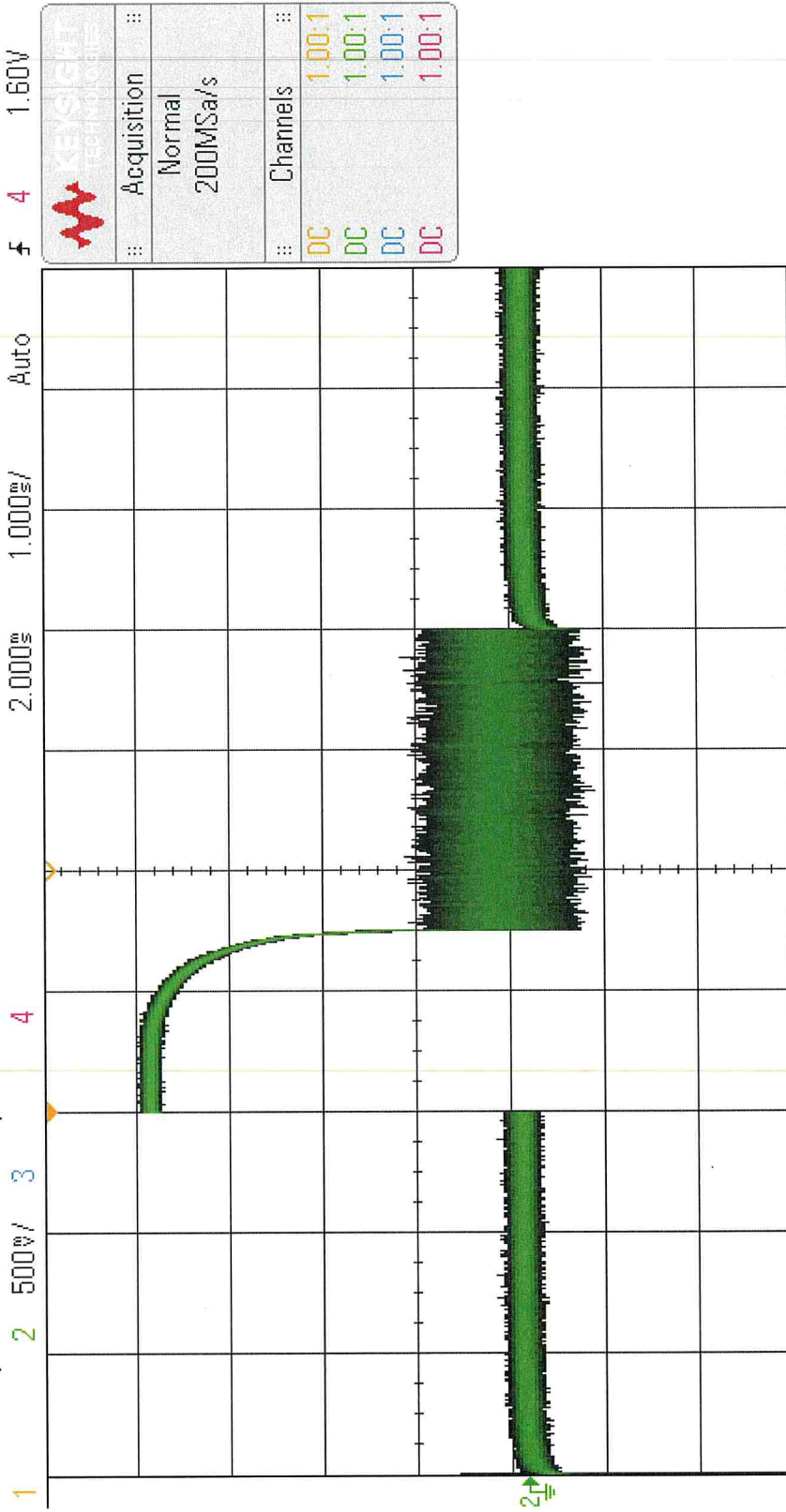
Settings

Clear Meas

Statistics

PL 45186
CW Immune

DSO-X 3034A, MY52394003: Wed May 01 11:06:18 2024



Save to file = pl45186_cw Immune

Save

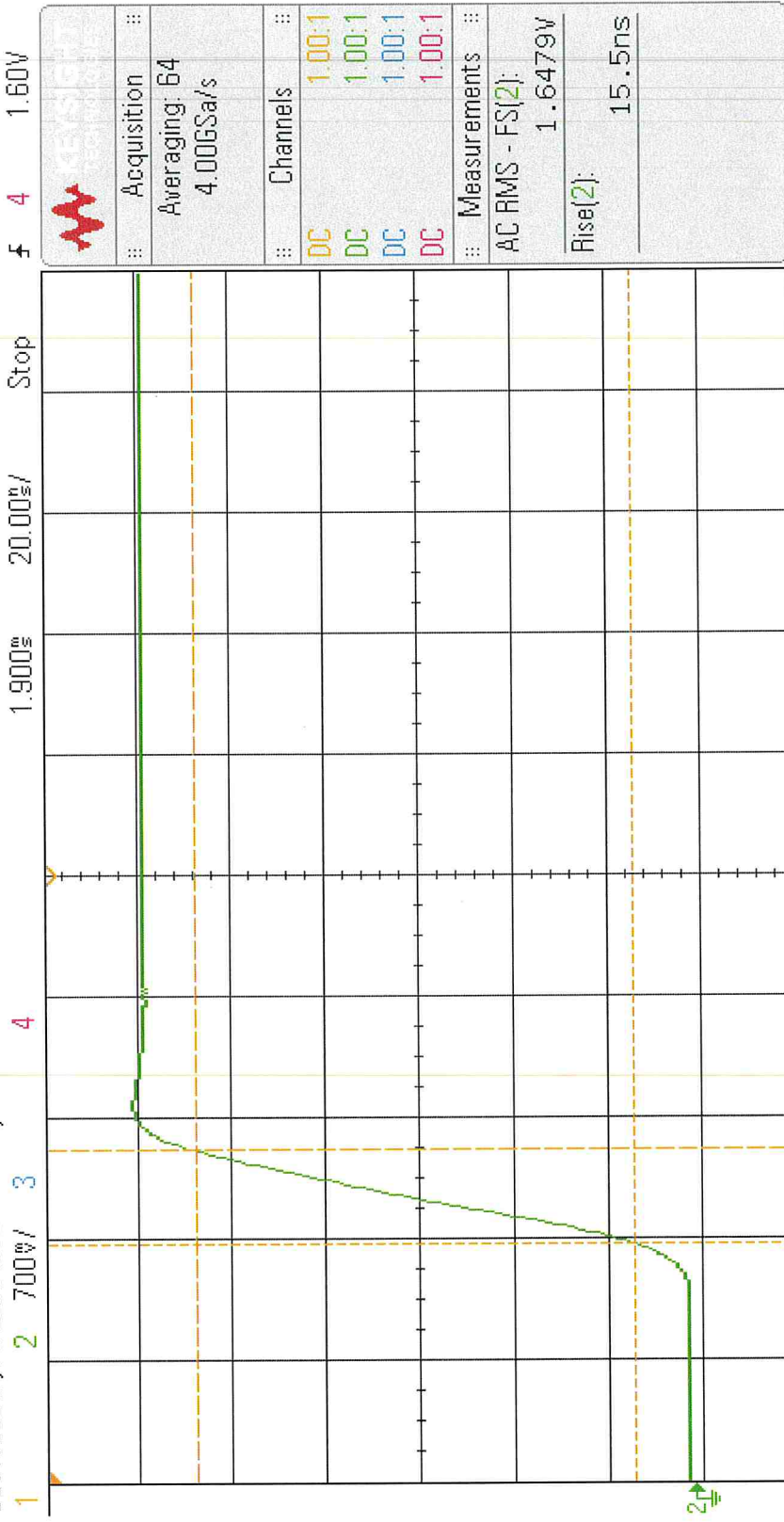
Recall

Default/Erase

Press to Save

PL45186
settle

DSO-X 3034A, MY52394003: Wed May 01 11:01:26 2024



Acquire Menu

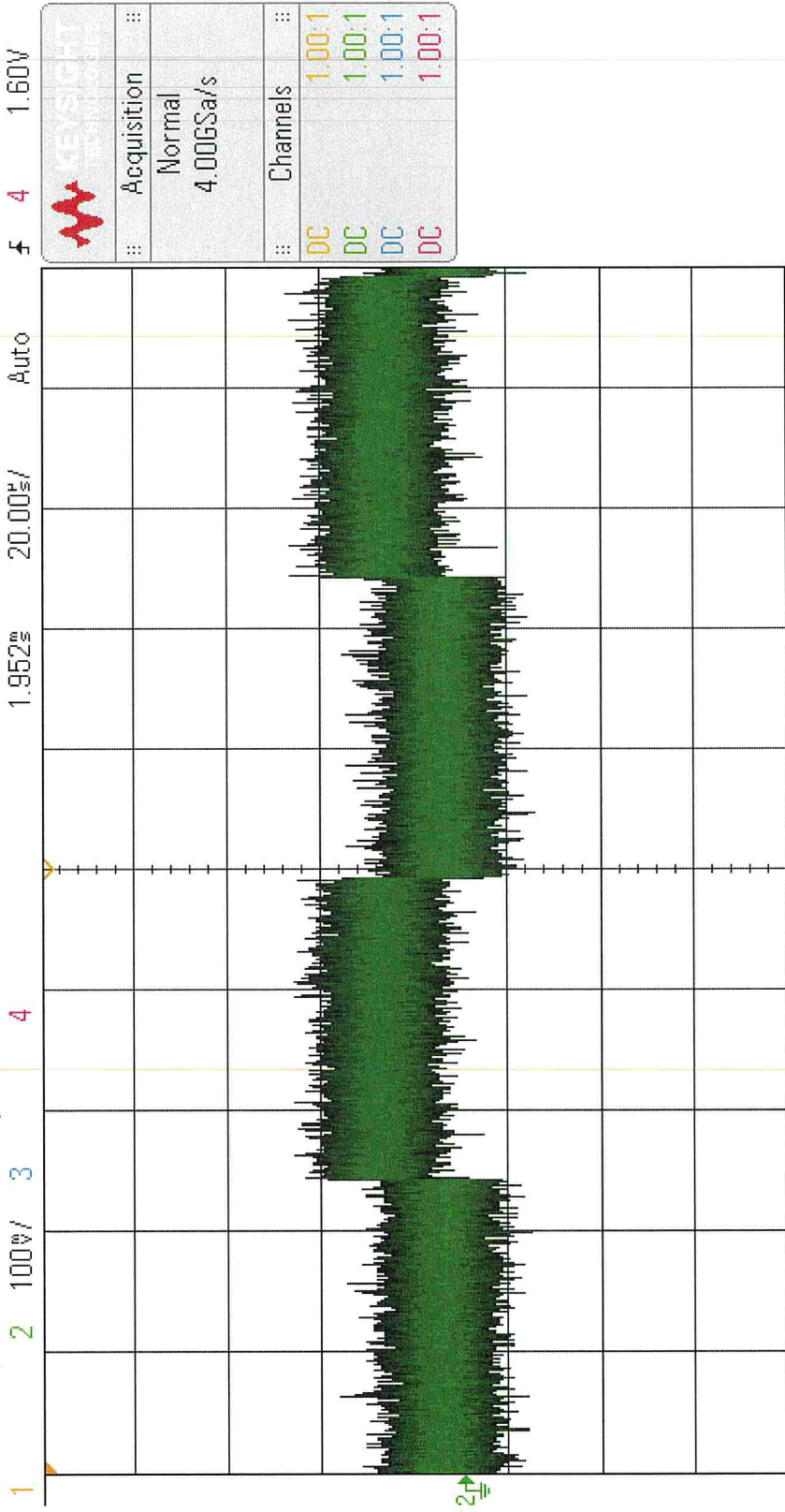
Acq Mode
Averaging

Avs
64

Segmented

PL45186
TSS -71 dbm

DSO-X 3034A, MY52394003: Wed May 01 11:04:22 2024



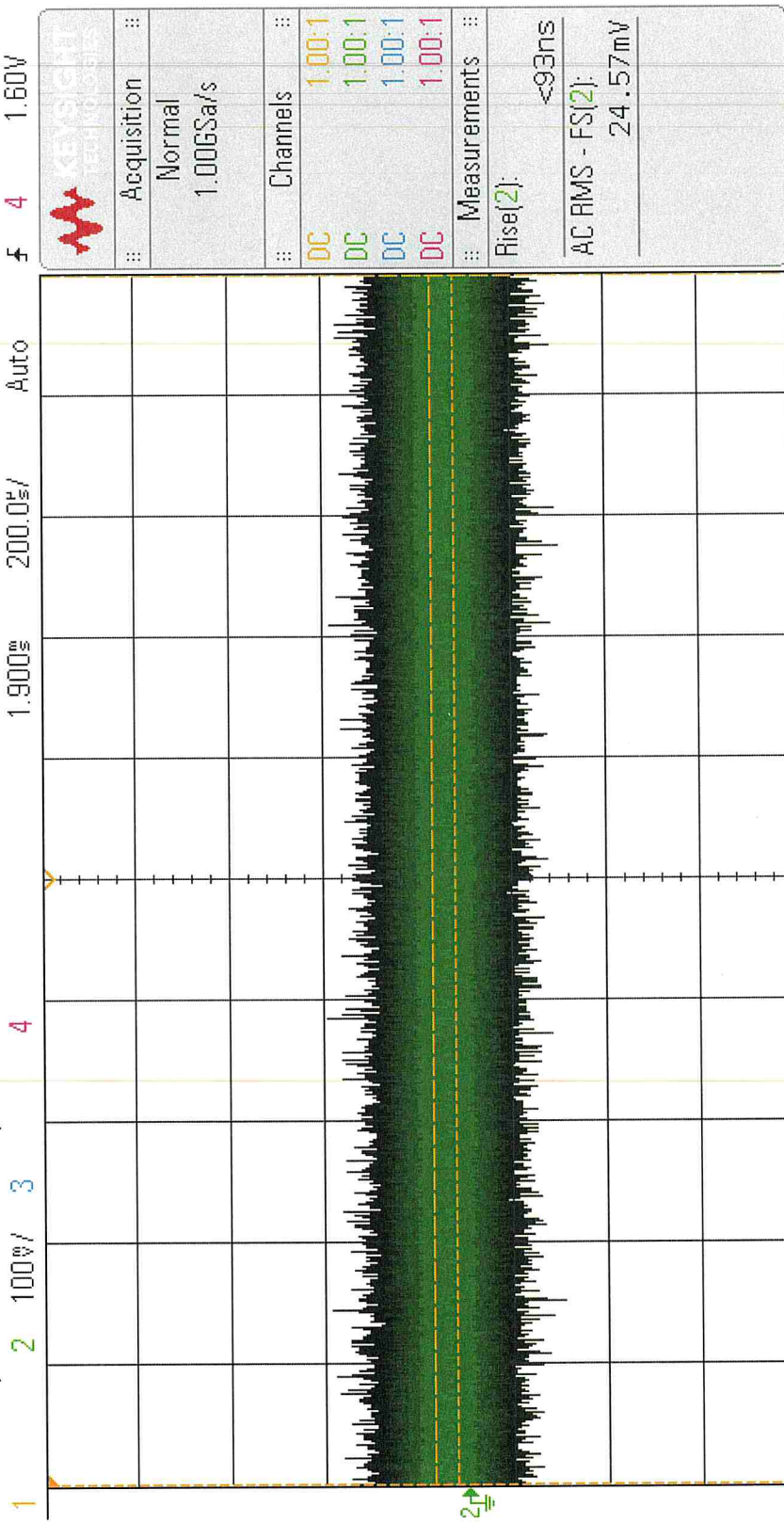
Cursors Menu

Mode
Off

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

PL 45186
RMS noise

DSO-X 3034A, MY52394003: Wed May 01 10:57:49 2024



- Clear Measurements Menu
- Clear Meas 1
 - Rise(2)
 - Clear Meas 2
 - AC RMS - FS(2)
 - Clear Meas 3
 - <None>
 - Clear Meas 4
 - <None>
 - Clear All