



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

Customer: \_\_\_\_\_ Tested By: Jim Hopson  
 SO No: \_\_\_\_\_ Temperature: -40C TO +70C  
 Model No: ERDLVA-2G18G-65-70MV-70C Date 8/8/2024  
 Serial No: PL40184/2322 Drawing No: 27642020 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 18 GHz	2 to 18 GHz	PMI QA3
2	VSWR:	2.2:1 MAX @ 50 Ω	1.97:1 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	72.0/69.3 mv/db	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C	.67/- .46 db	
8	VIDEO OUT Log Accuracy:	±2.3 dB MAX @25C	1.17/1.07 db	
9	VIDEO OUT Absolute Log Accuracy:	±2.9 dB MAX Over Freq & temp	±1.7 dB MAX Over Freq & temp	
10	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On) @25C	39 mV	
11	VIDEO OUT Rise Time (10% to 90%):	28 ns MAX	27.5 ns	
12	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	116.6 ns	
13	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value @-10 dBm	< 50ns	



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14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	< 1us	PMI QA3
15	VIDEO OUT Video Frequency Flatness:	±2.0 dB MAX @25C	±0.93 dB MAX @25C	
16	VIDEO OUT CW Immunity:	CW Immune Power TSS to -40 dBm	Pass	
		Pulse Peak Amplitude Loss; 2 dB MAX @ -40dBm CW	<2dB	
		Baseline shift 200mV @-40dBm CW	< 200mV	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	1.4ms	
		CW Recovery Time at CW = -40 dBm, ≤ 20 us	<20 us	
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	Pass	
22	VIDEO OUT Noise Level (Vp-p):	160 mV max	145 mV	



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23	VIDEO OUT Propagation Delay:	50 ns MAX from RF 50% to 10% video (excluding cable)	< 50 ns	PMI QA3
24	Power Supply	+15 V @ 500 mA MAX -15 V @ 100 mA MAX	+15 V @ 310 mA 15 V @ 80 mA	
25	Power Supply Ripple From DC to 10 MHz	100 mV MAX	Pass	

QA/QC Approval: \_\_\_\_\_

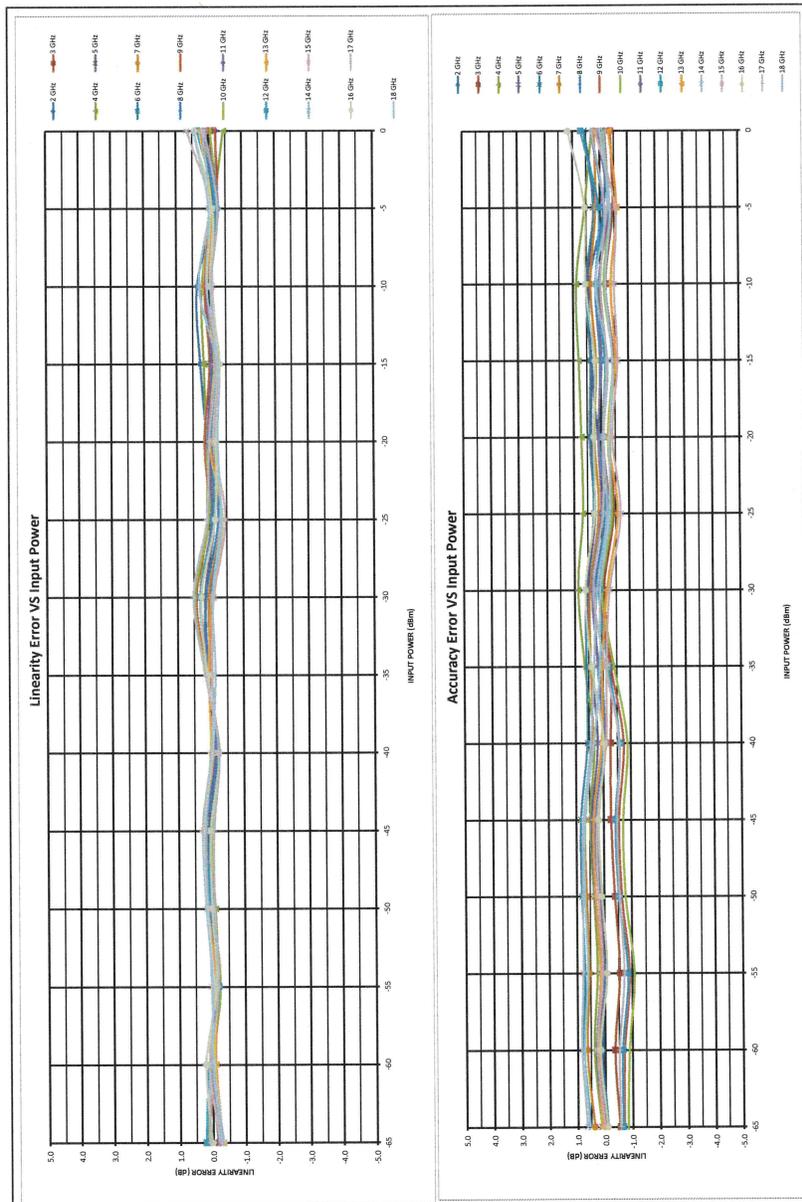
*H. Luter*

Date: \_\_\_\_\_

4.13.24

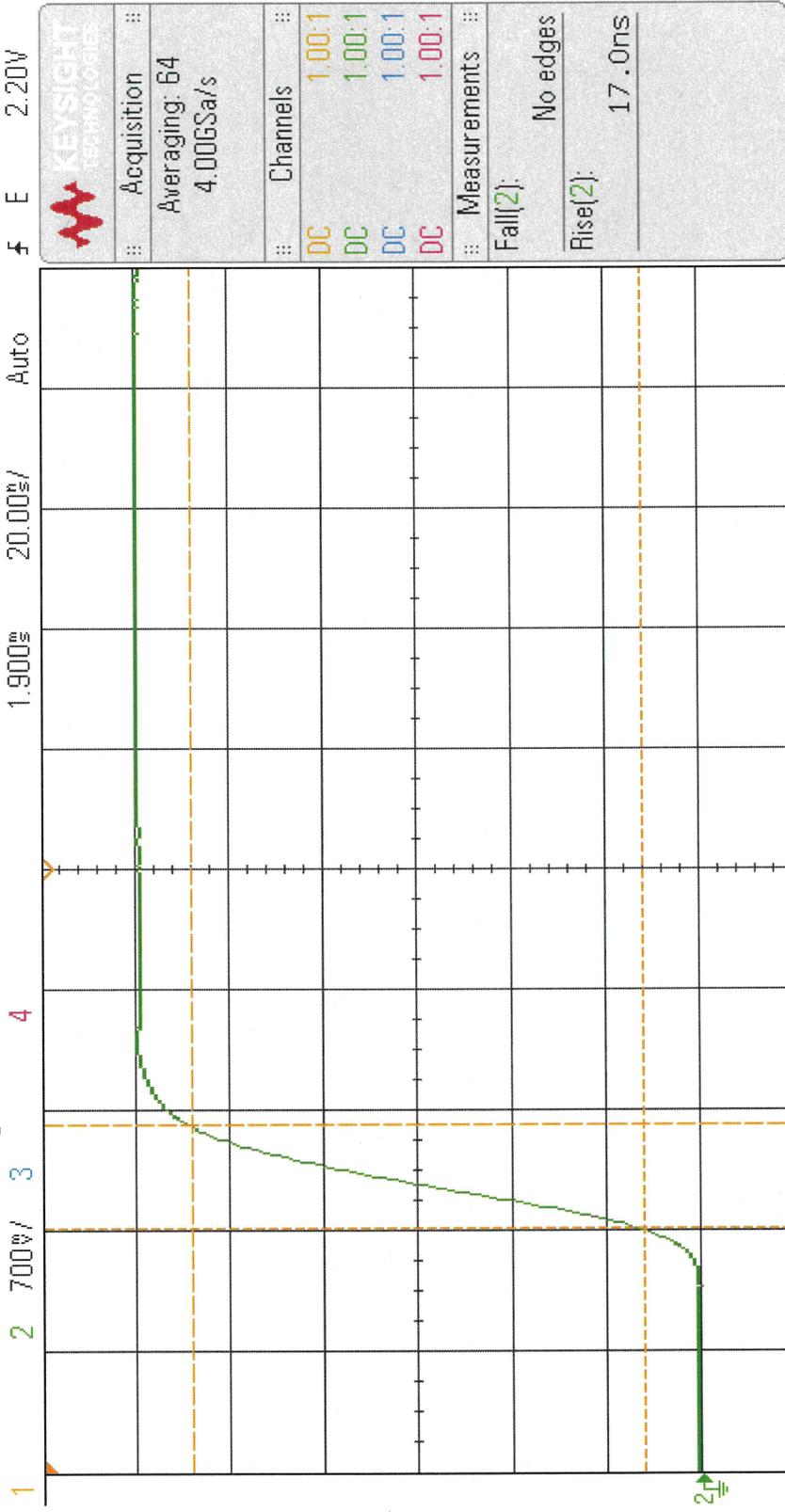


PL40184



PL40184  
settle

DSO-X 3034A, MY52394003: Thu Aug 08 10:24:00 2024



Measurement Menu

Source 2

Type: Rise

Add Measurement

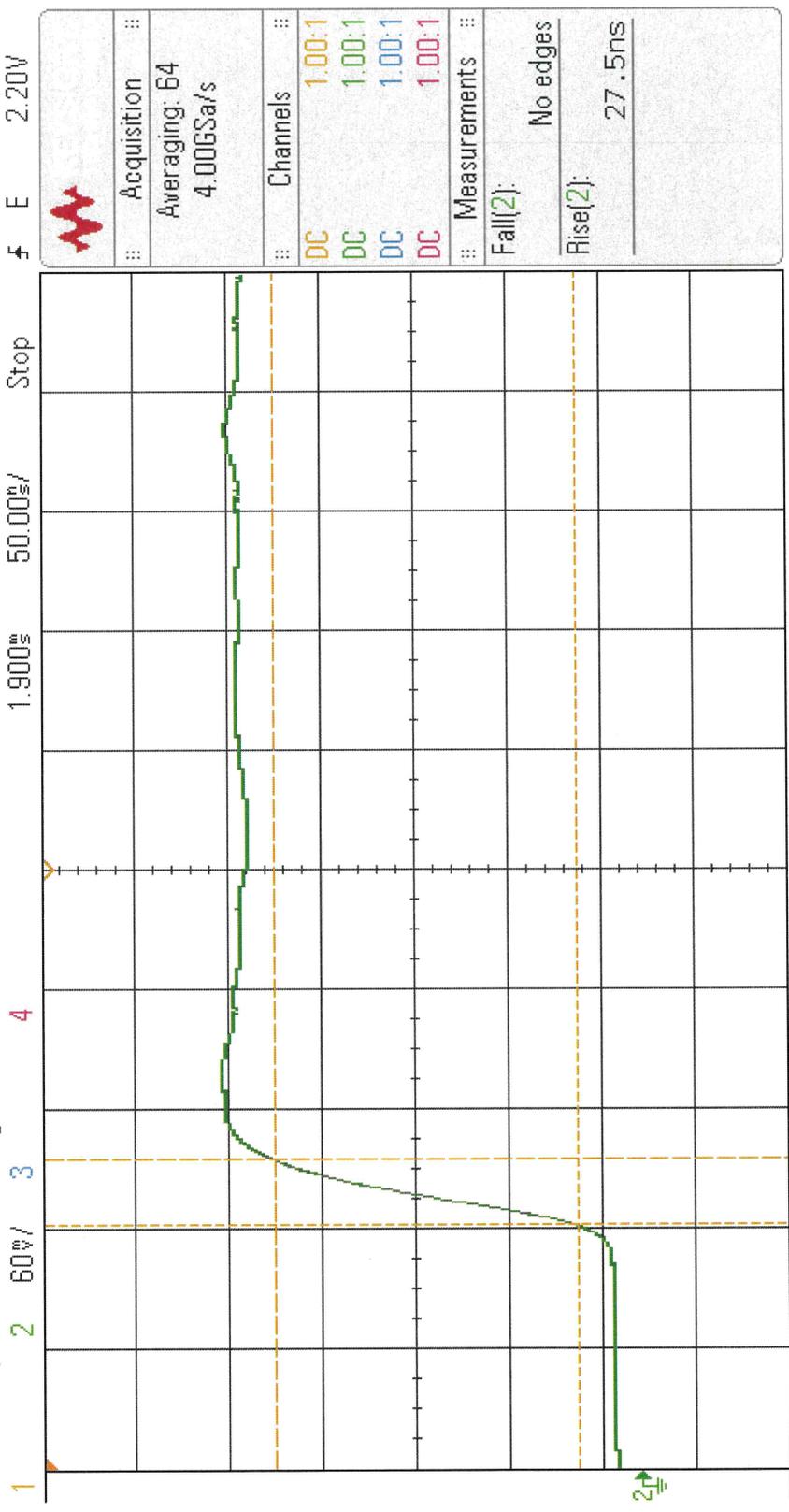
Settings

Clear Meas

Statistics

PL40184  
RiseTime

DSO-X 3034A, MY52394003: Thu Aug 08 10:25:03 2024



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Save

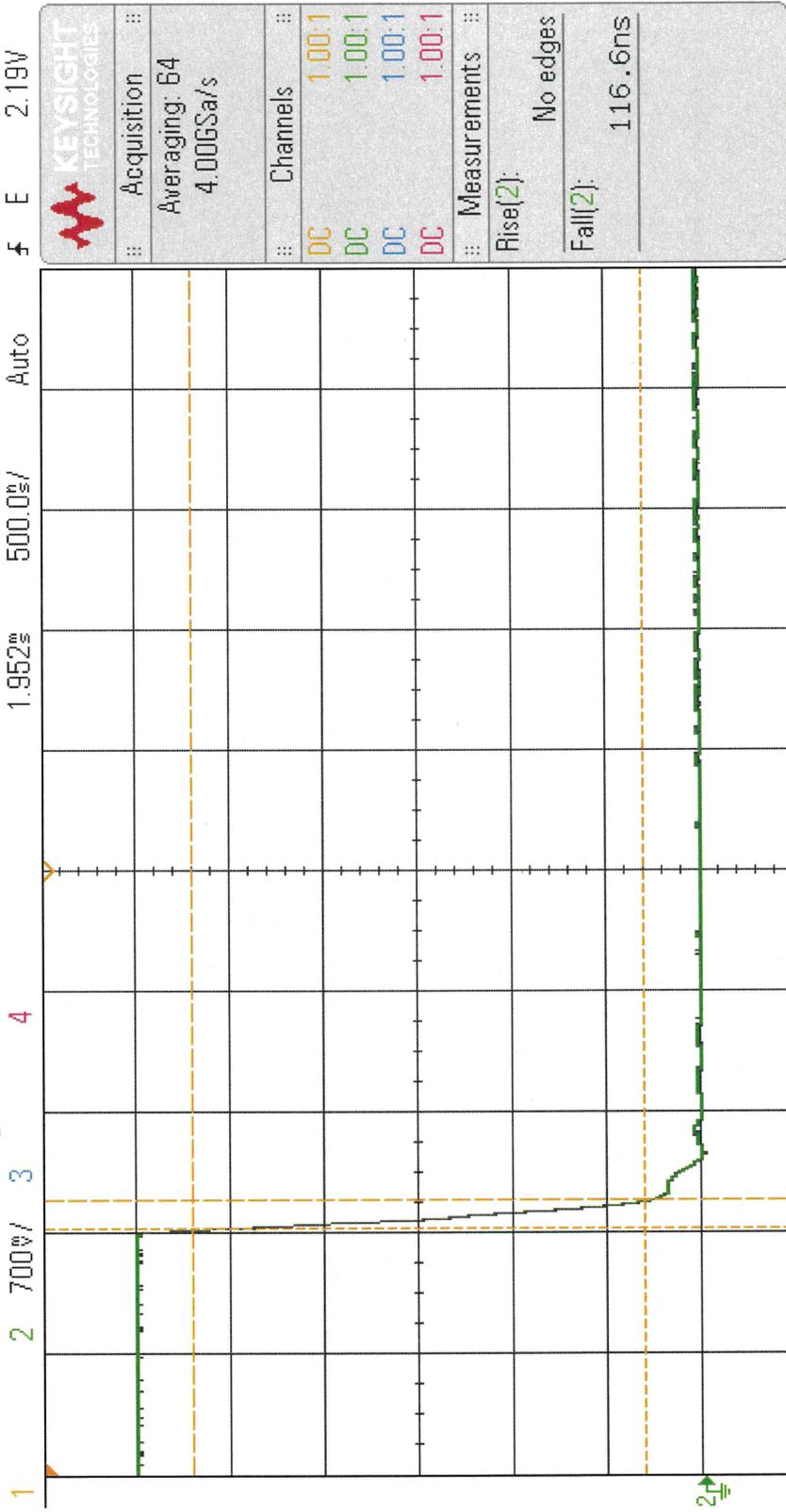
Recall

Default/Erse

Press to Save

PL40184  
Recovery

DSO-X 3034A, MY52394003: Thu Aug 08 10:23:09 2024



Acquire Menu

Acq Mode  
Averaging

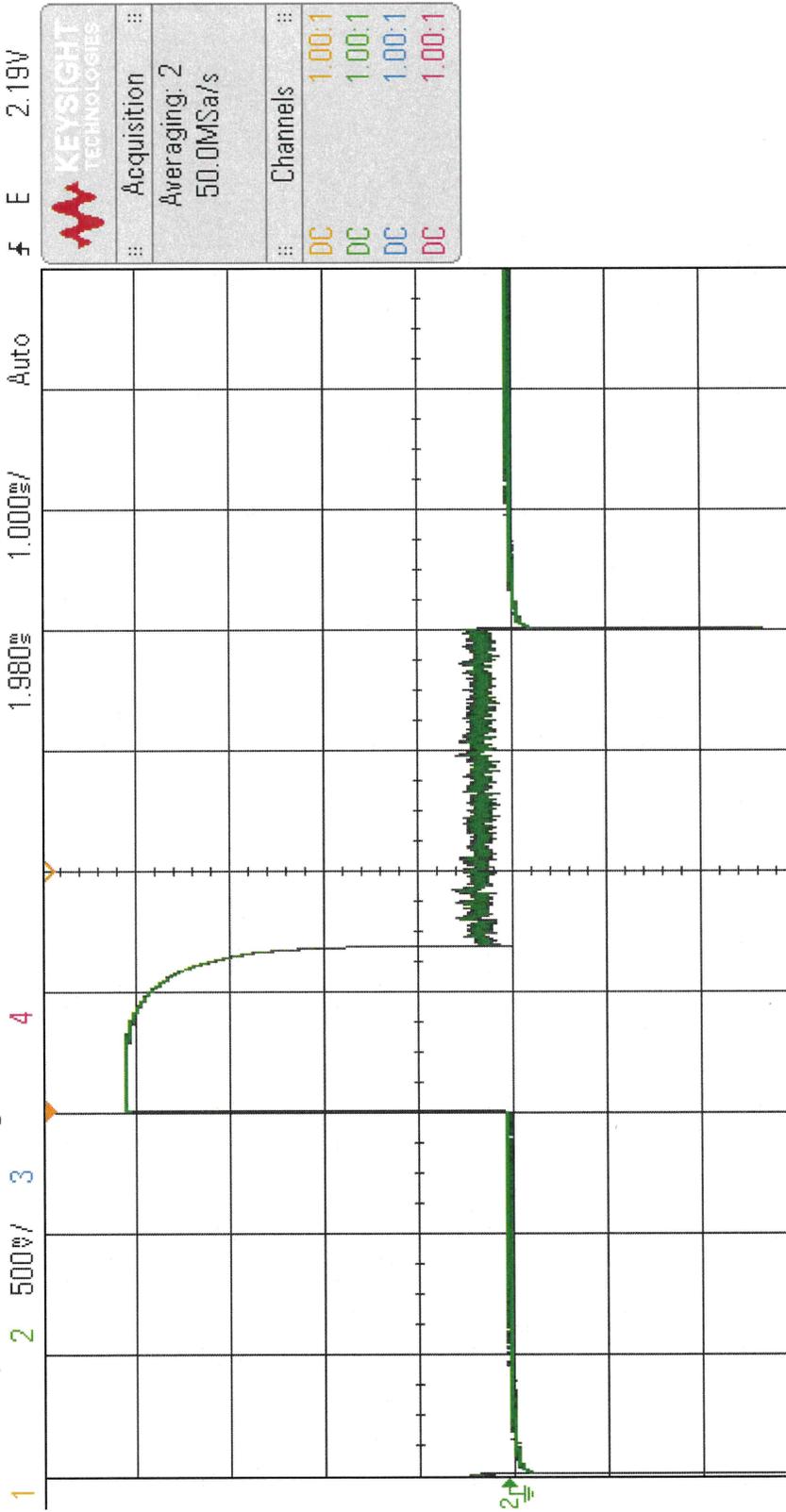
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64

Segmented

PL40184

cw Immune

DSO-X 3034A, MY52394003: Wed Aug 07 13:30:03 2024



Acquire Menu



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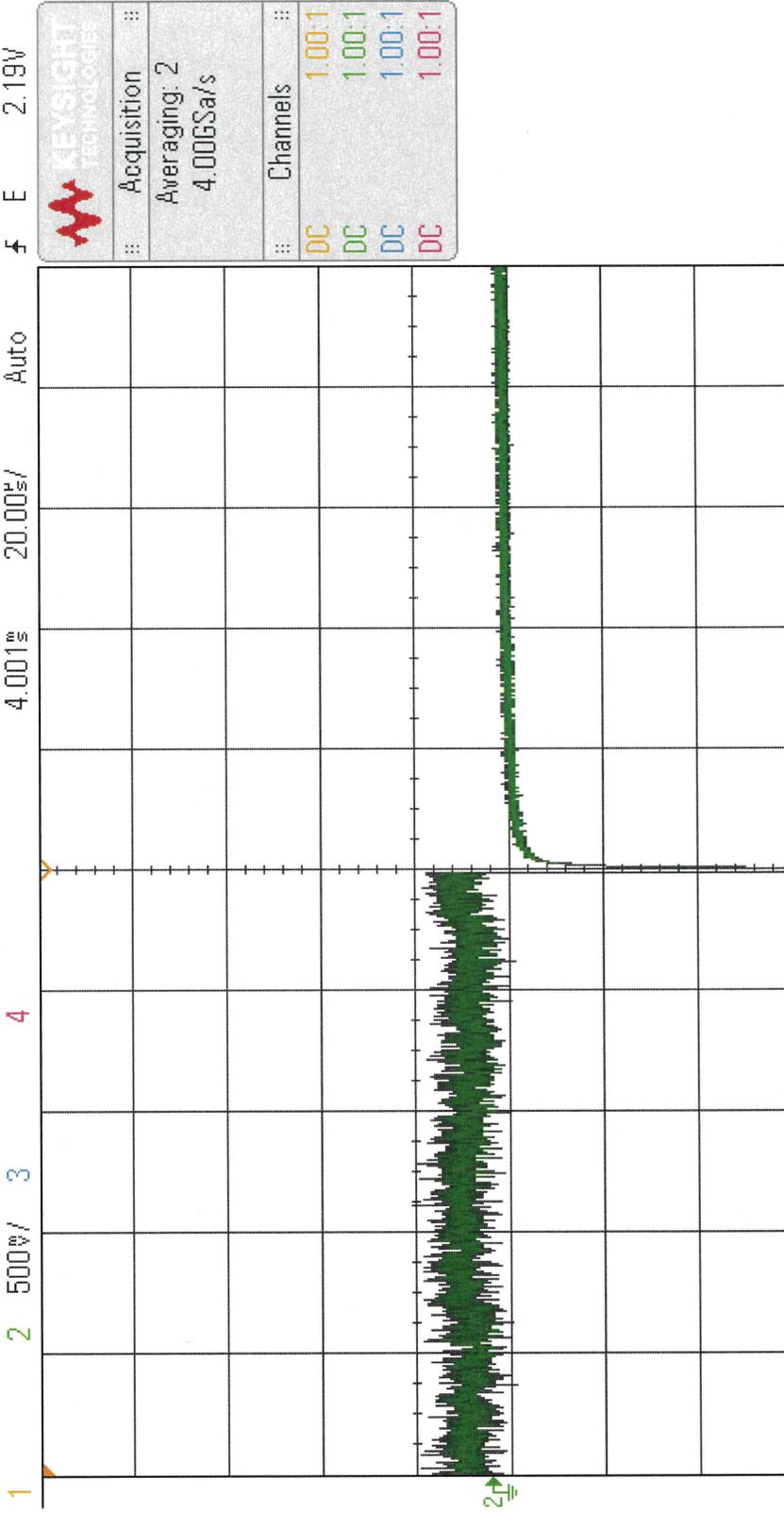
2

Segmented



PL 40184  
cw Recovery

DSO-X 3034A, MY52394003: Wed Aug 07 13:29:24 2024



Save to file = pl40184\_cw\_recovery

Save →

Recall →

Default/Erase →

Press to Save

# RMA REPAIR REPORT

RMA NO: 2405-085	PMI MODEL No.: 27342040 Customer MODEL No.: NA	SERIAL No: PL40184/2322
DATE RECEIVED: 05/22/2024	JOB NO: 20240307-R	WARRANTY [ X ] Yes [ ] No
CUSTOMER: HI Intelligence	CONTACT NAME: George Chang	TEL#: 916-542-1401
CUSTOMER RTV#: LJ-20008-4	RETURN P.O.: 20240307	
CUSTOMER COMPLAINT: Flatness		Verified [ X ] Yes [ ] No
OBSERVATIONS: Flatness was right at spec., Linearity was +/- 1.1 db. Spec is +/- 1.0 db.		
REPAIR ACTIONS: Retuned RF flatness for overall unit flatness and linearity for better spec margin. Adjusted video as needed and verified all other specs.		
SUSPECTED ROOT CAUSE: Customer correlation with PMI.		
INTERNAL CORRECTIVE ACTION REQUIRED [ ] Yes [ X ] No		CAR NUMBER:
QA Inspector: <i>Arthur Zimmerman</i> Final Inspection & Document Review IAW PMI-Q-P-7008 and PMI-Q-P-7017		DATE: 08/12/2024

**Quantic PMI**

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