

SUMMARY TEST DATA ON SDLVA-1G20G-55-12-SFF

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-1G20G-55-12-SFF
SERIAL NO: PL53490/2526

TESTED BY: Jeremy Walker
TEMPERATURE: +25°C (Unless Otherwise Specified)
DATE: 6/25/2025
DRAWING NO: 27637600 REV: A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range	1 GHz – 20 GHz	1 GHz – 20 GHz	Pass
2	Frequency Flatness	±2.0 dB Typ	± 2.20 dB See Plot	Pass
3	Log Linearity	±1.5 dB Typ (-50 to 0dBm)	± 2.29 dB See Plot	Pass
4	Log Linearity Over Temp	±2.0 dB Typ (-50 to 0dBm) (@ -55°C to +85°C)	By Design	Pass
5	Logging Range	-55 to +5 dBm	PASS	Pass
6	Video Load	50 OHMS	50 OHMS	Pass
7	Input VSWR	2.8:1 Typ	1.907:1	Pass
8	Log Video Output Voltage	0.1 V to 2.5V Typ	See Plot	Pass
9	Log Video Output Slope	50 mV / dB Typ	49.70 mV/dB	Pass
10	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	7.5 nS	Pass
11	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	11 nS	Pass
12	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	31 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	57.9 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	130mA	Pass

QA/QC Approval: 

Date: 6-25-25



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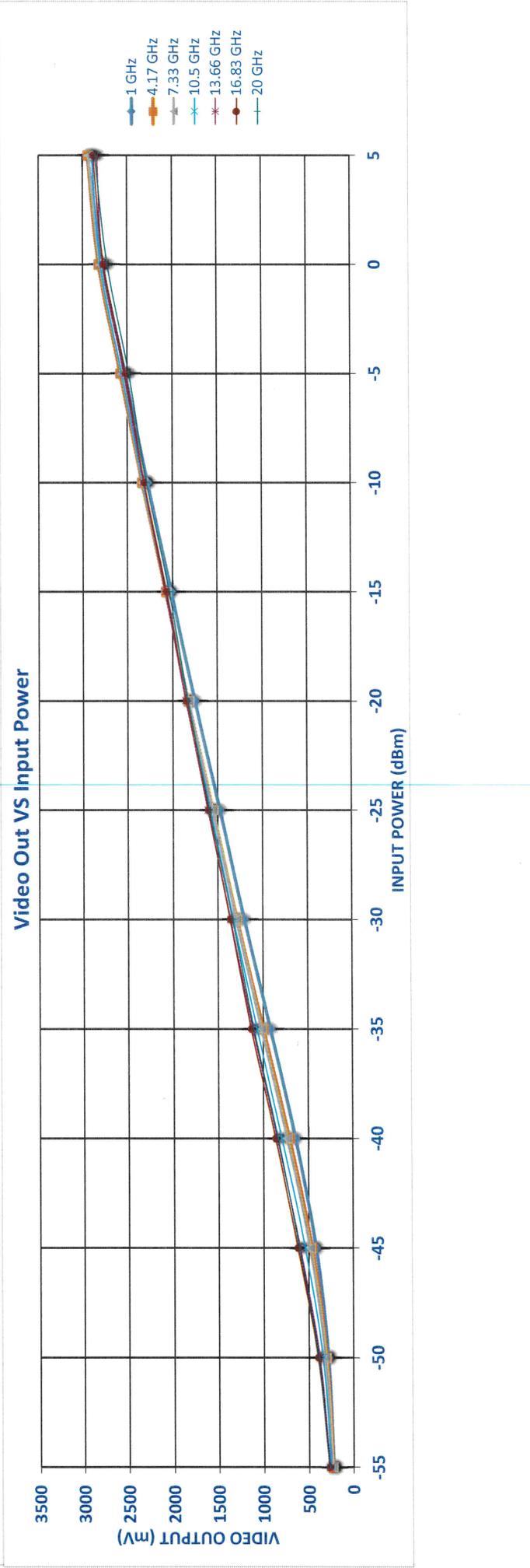
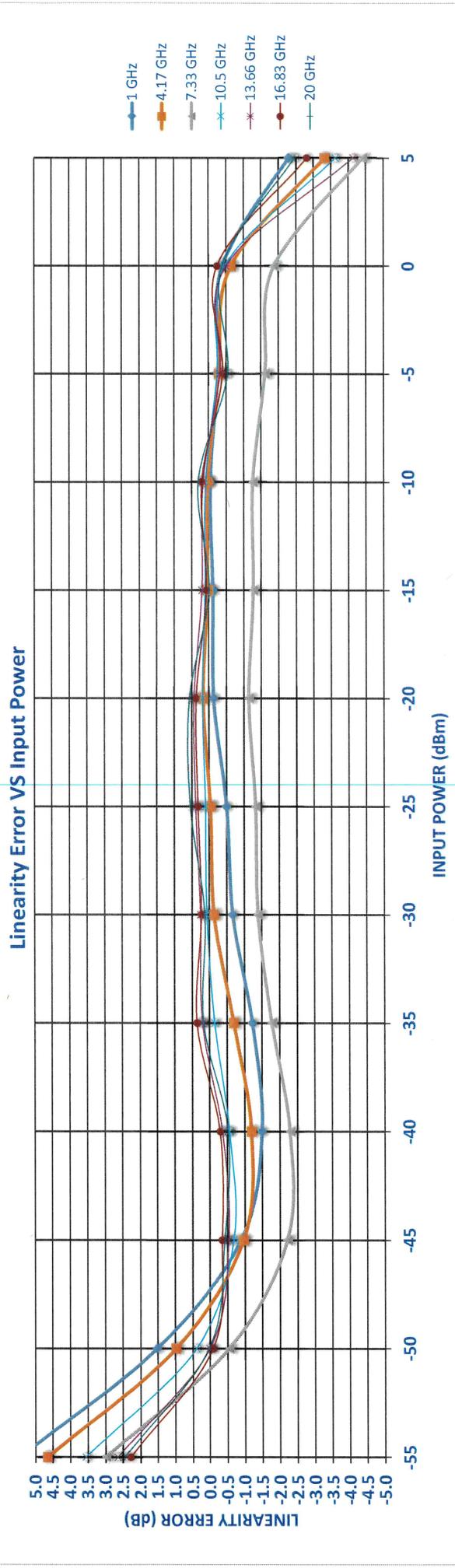
LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-1G20G-55-12-SFF
 TESTED BY: Jeremy Walker
 DATE: 6/25/2025
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 Test Temp: +25C

Output Offset(V)= 0.200

Frequency

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
1 GHz	2796	51.8	228	284	418	646	919	1207	1475	1753	2013	2276	2523	2776	2937	-1.49	1.52	RF Input Power (dBm)
4.17 GHz	2854	52.0	236	305	464	712	998	1287	1552	1823	2076	2336	2579	2821	2942	-1.19	0.98	LINEARITY ERROR (dB)
7.33 GHz	2904	51.2	240	315	486	738	1020	1296	1555	1821	2070	2327	2565	2808	2934	-2.29	-0.55	LINEARITY ERROR (dB)
10.5 GHz	2824	50.0	178	20	-34	-28	-7	4	6	10	6	5	-12	-23	-181	-0.68	0.40	LINEARITY ERROR (dB)
13.66 GHz	2796	48.3	267	381	596	846	1115	1359	1607	1851	2081	2321	2539	2772	2838	-0.53	0.44	LINEARITY ERROR (dB)
16.83 GHz	2778	47.5	274	399	624	864	1133	1364	1606	1846	2069	2313	2522	2767	2883	-0.40	0.38	LINEARITY ERROR (dB)
20 GHz	2741	47.0	116	2	-20	-25	8	6	26	27	0	15	-25	-18	-115	-0.54	0.57	LINEARITY ERROR (dB)
Flatness +/-dB																+/-	2.20	FLATNESS ERROR (dB)
Slope Avg(mv/dB)																49.7		

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-1G20G-55-12-SFF
 SERIAL NO: PL53490
 Test Temp: +25C

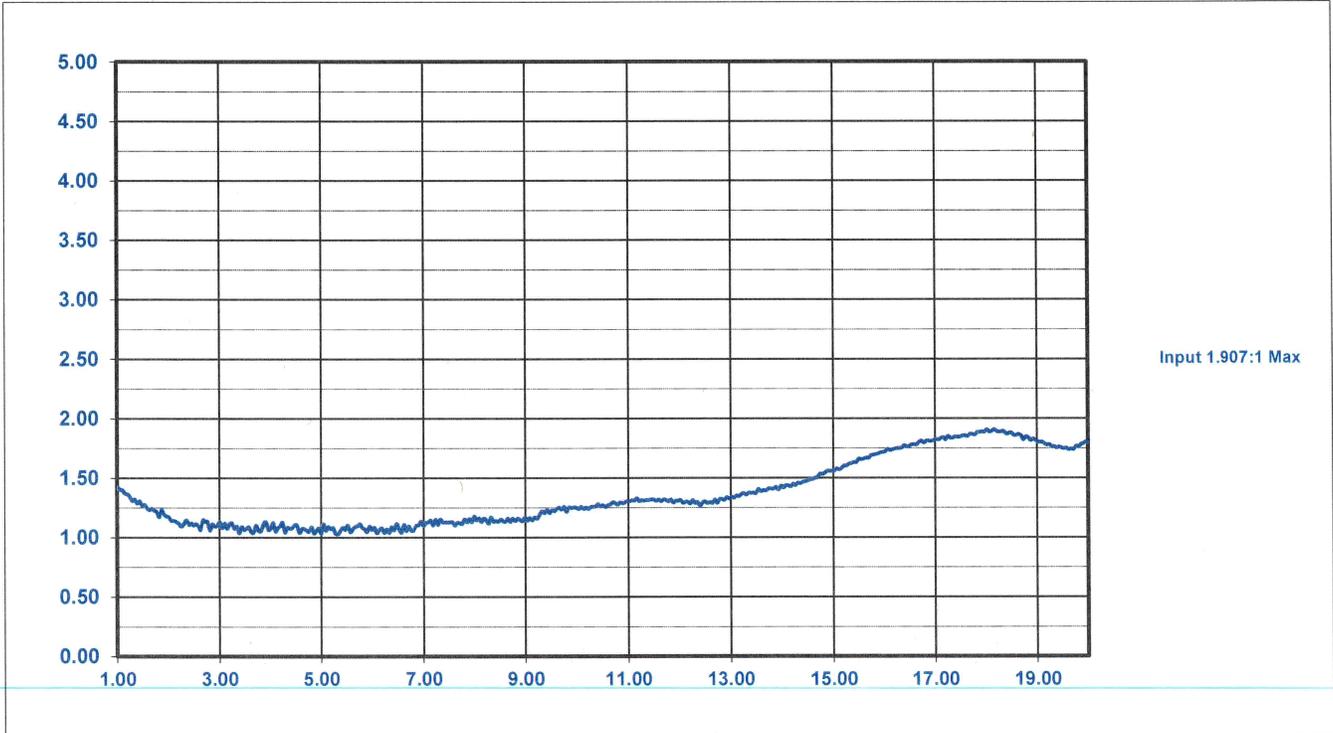




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ON
SDLVA-1G20G-55-12-SFF**

Model Number: SDLVA-1G20G-55-12-SFF
Serial Number: PL53490

Temperature: +25C

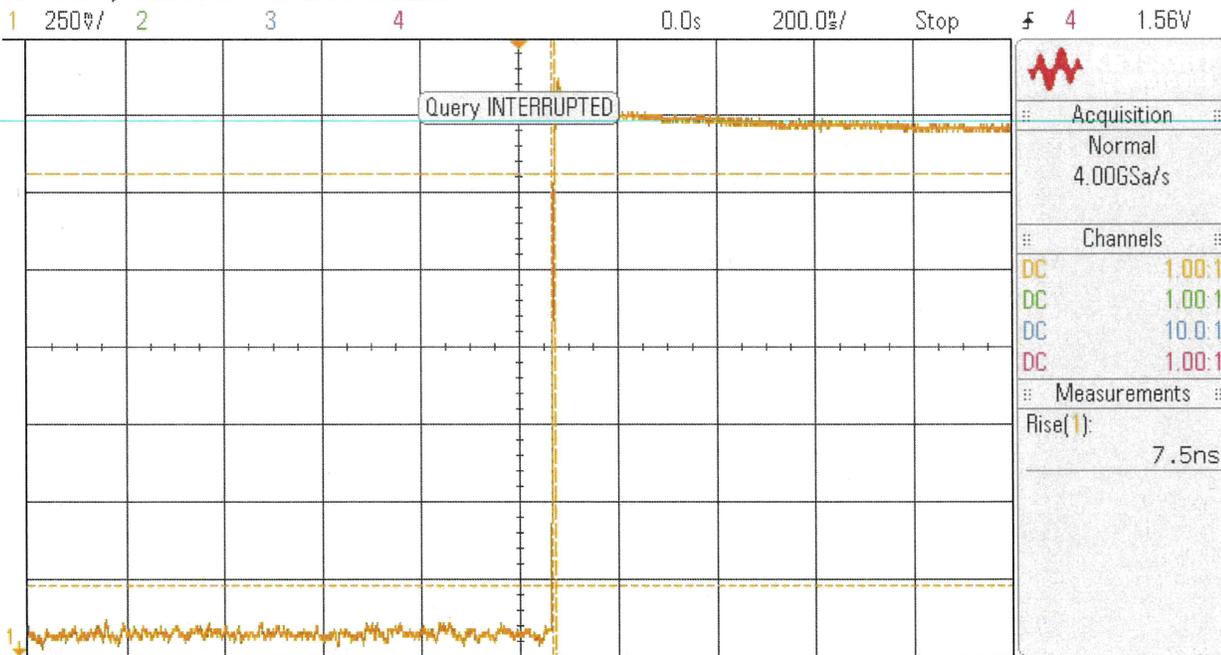




**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

Rise Time = 7.5 ns

DSO-X 3034A, MY52394003: Fri Jun 20 08:59:35 2025



Trigger Menu

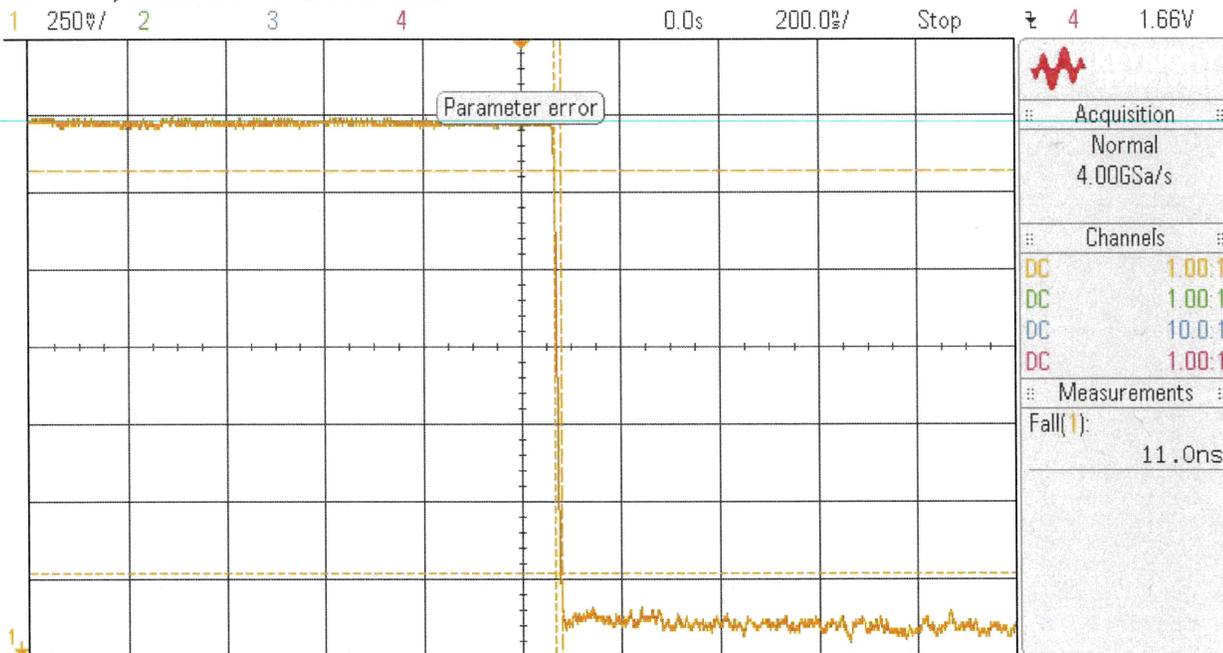
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Source: 4
Slope: f



**SUMMARY TEST DATA
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Fall Time = 11 ns

DSO-X 3034A, MY52394003: Fri Jun 20 08:59:45 2025



Trigger Menu

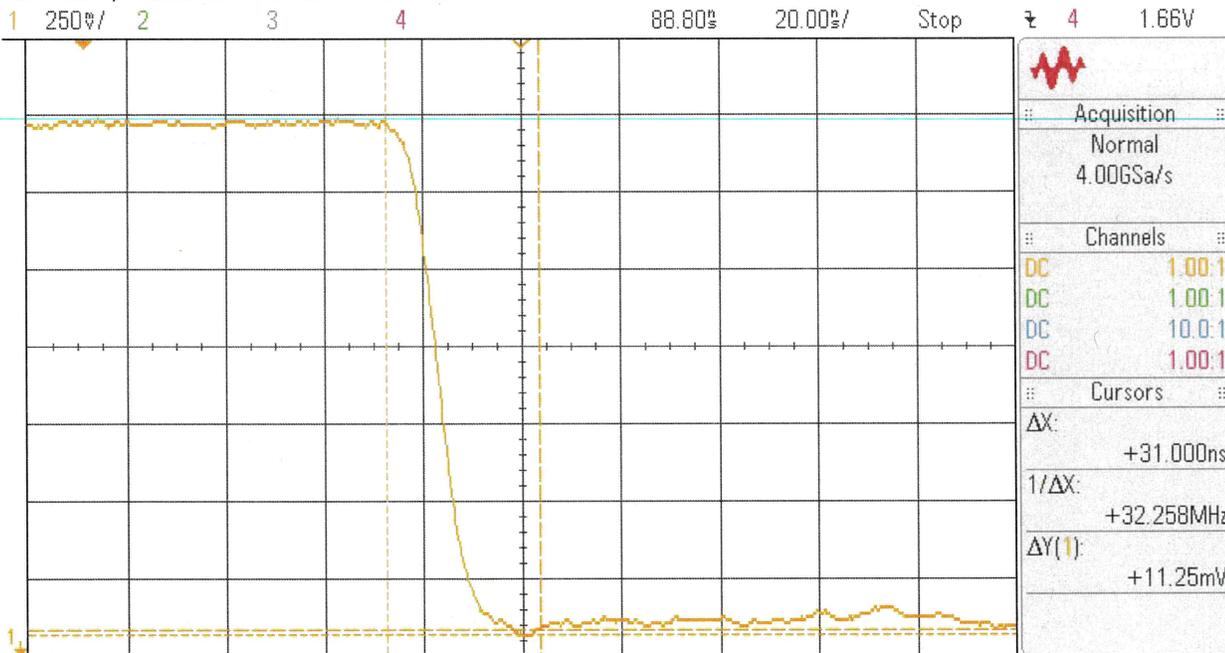
Trigger Type: Edge
Source: 4
Slope: ?



**SUMMARY TEST DATA
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Recovery Time = 31 ns

DSO-X 3034A, MY52394003: Fri Jun 20 09:01:25 2025



Trigger Menu

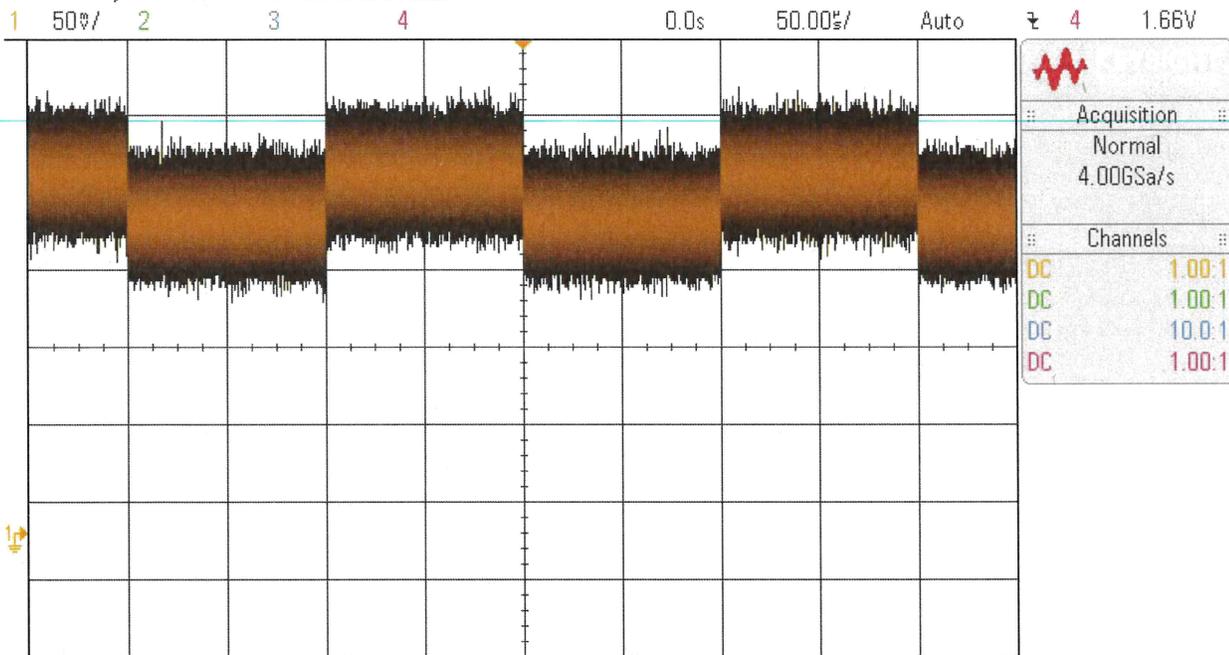
Trigger Type: Edge
Source: 4
Slope: \uparrow



**SUMMARY TEST DATA
ON
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TSS = 57.9 dBm

DSO-X 3034A, MY52394003: Fri Jun 20 08:59:57 2025



Trigger Menu

Trigger Type: Edge
Source: 4
Slope: \uparrow