SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF

PL45443/2419

Customer:		**Tested By:**	DA		
SO No:		**Temperature:**	+25°C , -54°C, +95°C		
Model No:	DLVA-8G10G-75-50-SFF	**Date:**	05/10/24		
Serial No:	PL45443/2419	**Drawing No:**	27631110	**Rev:**	A3

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	8 GHz – 10 GHz	**8 GHz to 10 GHz**	PMI QA3
2	Flatness	± 1.2 dB	**± 1.1 dB (See Plots)**	
3	TSS	-78dBm	**-78dBm**	
4	Log Dynamic Range	-75 to 0dBm	**-75 TO 0dBm (See Plots)**	
5	Log Slope	50mV/dB ± 4mV/dB	**50mV/dB± 2.0mV/dB (See Plots)**	
6	Log Linearity	± 1.8 dB Max.	**± 1.48 dB (See Plots)**	
7	DC Offset	50mV ± 50mV	**50mV ± 49mV**	
8	Rise Time	30 ns Max.	**18.5ns**	
9	Fall Time	150ns	**<100ns**	
10	Recovery Time	500 ns for 10.0 us PW	**100ns**	
11	DC Supply	+15VDC @ 350 mA -15VDC @ 100 mA	**173 mA** **64 mA**	

QA/QC Approval: K. Lutes **Date:** 5-10-24

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SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF

PL45443/2419

LOG TRANSFER @ +25C

LOG TRANSFER WITH FREQUENCY
MODEL: DLVA-8G10G-75-50-SFF
TESTED BY: DA
DATE: 05/09/2024
SERIAL NO: PL45443
Test Temp: +25C

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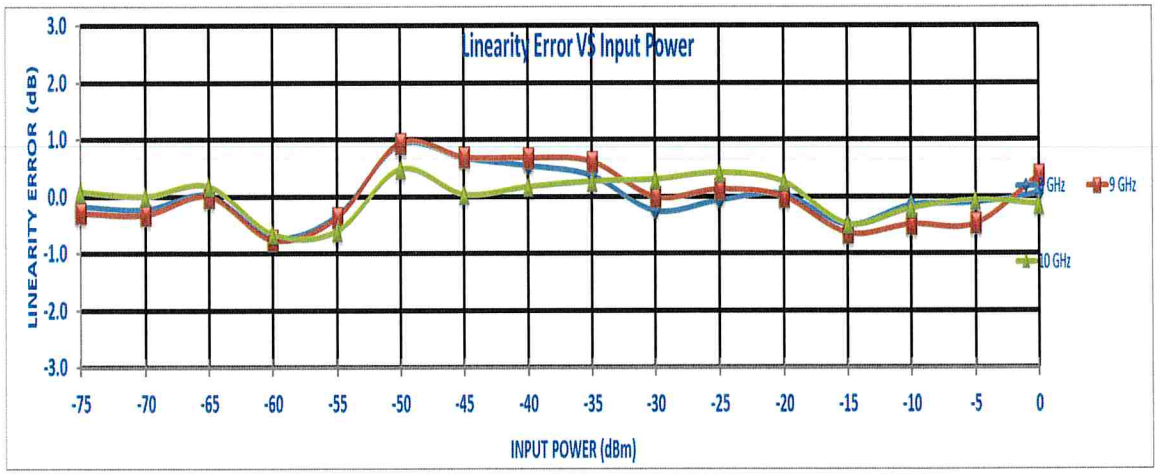
Output Vos= 0.067

Frequency			-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8 GHz	INTERCEPT (m	4100	345	592	854	1067	1336	1648	1886	2129	2370	2589	2848	3103	3326	3593	3845	4103	Measured Value (mV)
	SLOPE (mV/dB	50	-9	-12	1	-36	-17	45	34	27	18	-13	-4	2	-25	-8	-6	3	Error (mV)
			-0.18	-0.23	0.01	-0.72	-0.34	0.91	0.67	0.54	0.36	-0.26	-0.07	0.03	-0.50	-0.16	-0.11	0.05	LINEARITY ERROR (dB)
9 GHz	INTERCEPT (m	4069	343	589	852	1062	1329	1641	1876	2123	2367	2584	2838	3079	3295	3550	3798	4087	Measured Value (mV)
	SLOPE (mV/dB	49.5	-15	-16	0	-38	-18	46	34	33	30	0	6	0	-32	-24	-24	18	Error (mV)
			-0.29	-0.32	-0.01	-0.77	-0.37	0.94	0.68	0.68	0.61	-0.01	0.12	-0.01	-0.64	-0.49	-0.48	0.36	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (m	4087	323	570	830	1039	1293	1599	1828	2086	2342	2595	2852	3095	3309	3574	3833	4080	Measured Value (mV)
	SLOPE (mV/dB	50.2	4	0	9	-34	-31	24	2	9	13	15	21	13	-24	-11	-3	-7	Error (mV)
			0.08	0.00	0.17	-0.67	-0.61	0.48	0.04	0.17	0.27	0.30	0.42	0.25	-0.49	-0.21	-0.06	-0.14	LINEARITY ERROR (dB)
	Flatness +/-dB		0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.4	0.3	0.1	0.1	0.2	0.3	0.4	0.5	0.2	



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SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF

PL45443/2419

LOG TRANSFER @ -54C

LOG TRANSFER WITH FREQUENCY
MODEL: DLVA-8G10G-75-50-SFF
TESTED BY: DA
DATE: 05/09/2024
SERIAL NO: PL45443
Test Temp: -54C

Output Vos= 0.05

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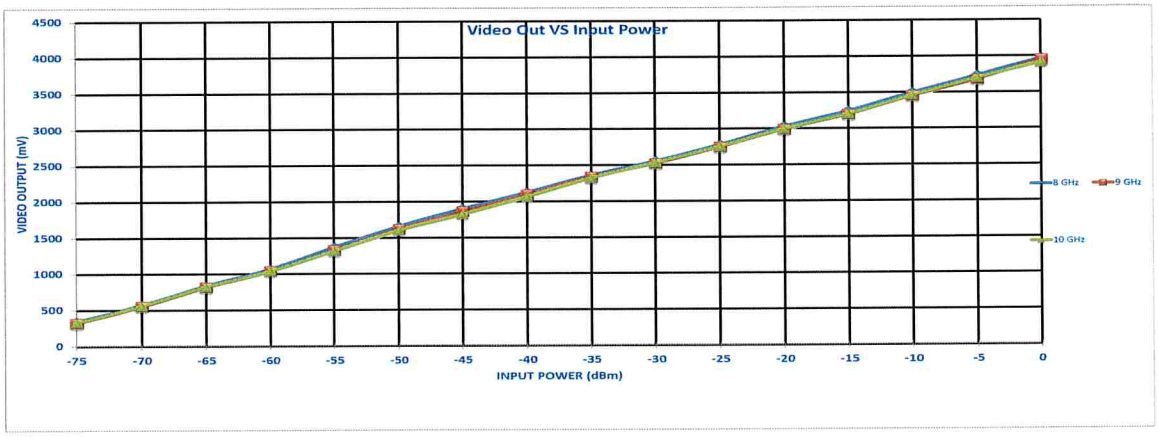
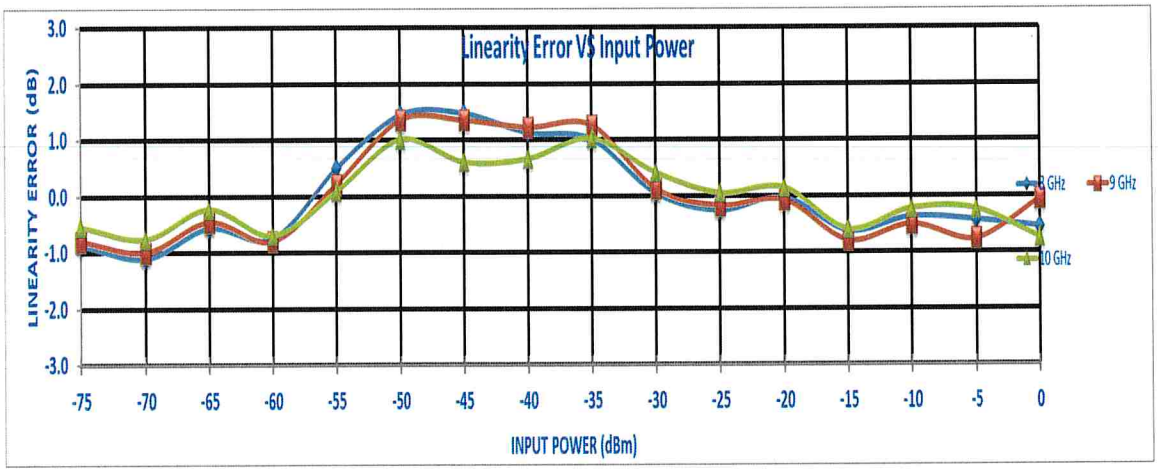
Frequency			-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8 GHz	INTERCEPT (m	3985	331	560	827	1059	1360	1647	1889	2113	2348	2542	2768	3020	3232	3485	3723	3958	Measured Value (mV)
	SLOPE (mV/dB	48.2	-42	-54	-28	-36	24	70	71	55	49	2	-13	-2	-30	-18	-21	-27	Error (mV)
			-0.87	-1.12	-0.57	-0.75	0.50	1.46	1.48	1.13	1.01	0.04	-0.27	-0.03	-0.63	-0.38	-0.44	-0.56	LINEARITY ERROR (dB)
9 GHz	INTERCEPT (m	3944	316	546	811	1034	1322	1616	1855	2088	2329	2514	2739	2983	3188	3441	3668	3941	Measured Value (mV)
	SLOPE (mV/dB	47.9	-39	-48	-22	-39	10	65	65	58	60	6	-9	-4	-38	-25	-37	-3	Error (mV)
			-0.81	-1.00	-0.46	-0.80	0.21	1.36	1.35	1.22	1.25	0.12	-0.18	-0.08	-0.80	-0.52	-0.77	-0.07	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (m	3942	324	553	818	1035	1312	1596	1816	2058	2315	2525	2747	2991	3195	3452	3691	3906	Measured Value (mV)
	SLOPE (mV/dB	47.9	-26	-36	-11	-33	4	49	29	32	49	20	2	7	-28	-11	-11	-36	Error (mV)
			-0.54	-0.76	-0.23	-0.70	0.09	1.02	0.61	0.67	1.03	0.42	0.05	0.15	-0.59	-0.23	-0.24	-0.75	LINEARITY ERROR (dB)
	Flatness +/-dB		0.2	0.1	0.2	0.3	0.5	0.5	0.8	0.6	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.5	





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SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL45443/2419

LOG TRANSFER @ +95C

LOG TRANSFER WITH FREQUENCY
MODEL: DLVA-8G10G-75-50-SFF
TESTED BY: DA
DATE: 05/09/2024
SERIAL NO: PL45443
Test Temp: +95C

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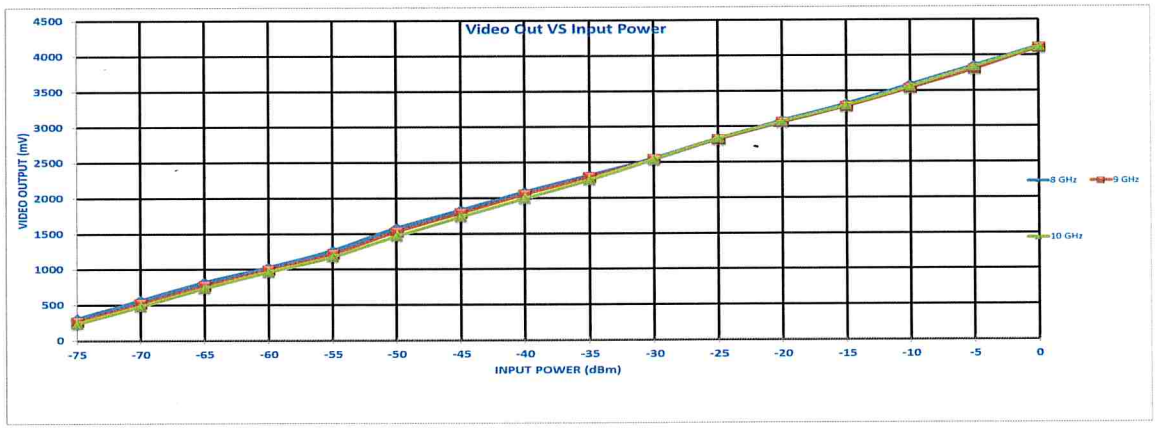
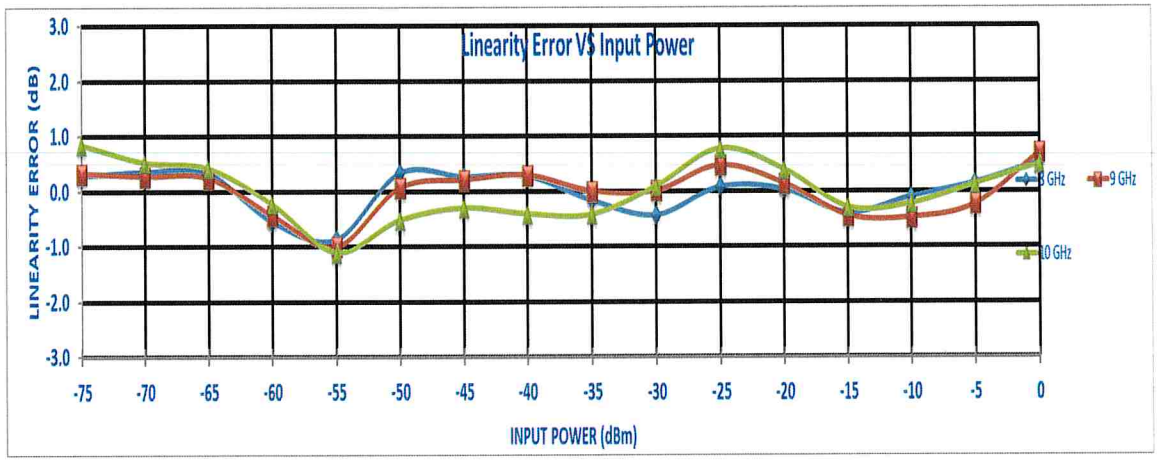
Output Vos= 0.06

Frequency			-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8 GHz	INTERCEPT (m	4085	299	556	808	1017	1254	1568	1818	2072	2303	2543	2822	3073	3305	3573	3839	4111	Measured Value (mV)
	SLOPE (mV/dB	50.7	14	18	16	-28	-44	16	13	14	-9	-22	4	1	-20	-5	7	26	Error (mV)
			0.28	0.35	0.32	-0.55	-0.88	0.32	0.26	0.27	-0.17	-0.44	0.07	0.02	-0.40	-0.11	0.14	0.51	LINEARITY ERROR (dB)
9 GHz	INTERCEPT (m	4063	259	511	764	984	1210	1519	1781	2040	2280	2535	2813	3051	3276	3529	3796	4098	Measured Value (mV)
	SLOPE (mV/dB	50.9	16	14	12	-23	-51	3	10	14	0	0	23	7	-23	-25	-12	35	Error (mV)
			0.32	0.27	0.23	-0.45	-1.01	0.06	0.20	0.28	0.00	0.00	0.46	0.13	-0.45	-0.48	-0.24	0.69	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (m	4083	233	476	730	956	1170	1460	1731	1985	2244	2530	2825	3065	3289	3552	3830	4108	Measured Value (mV)
	SLOPE (mV/dB	51.9	43	27	21	-12	-58	-28	-16	-22	-22	4	40	20	-16	-12	6	25	Error (mV)
			0.83	0.52	0.41	-0.24	-1.12	-0.53	-0.31	-0.42	-0.43	0.08	0.76	0.38	-0.30	-0.23	0.12	0.48	LINEARITY ERROR (dB)
	Flatness +/-dB		0.6	0.8	0.8	0.6	0.8	1.1	0.9	0.9	0.6	0.1	0.1	0.2	0.3	0.4	0.4	0.1	





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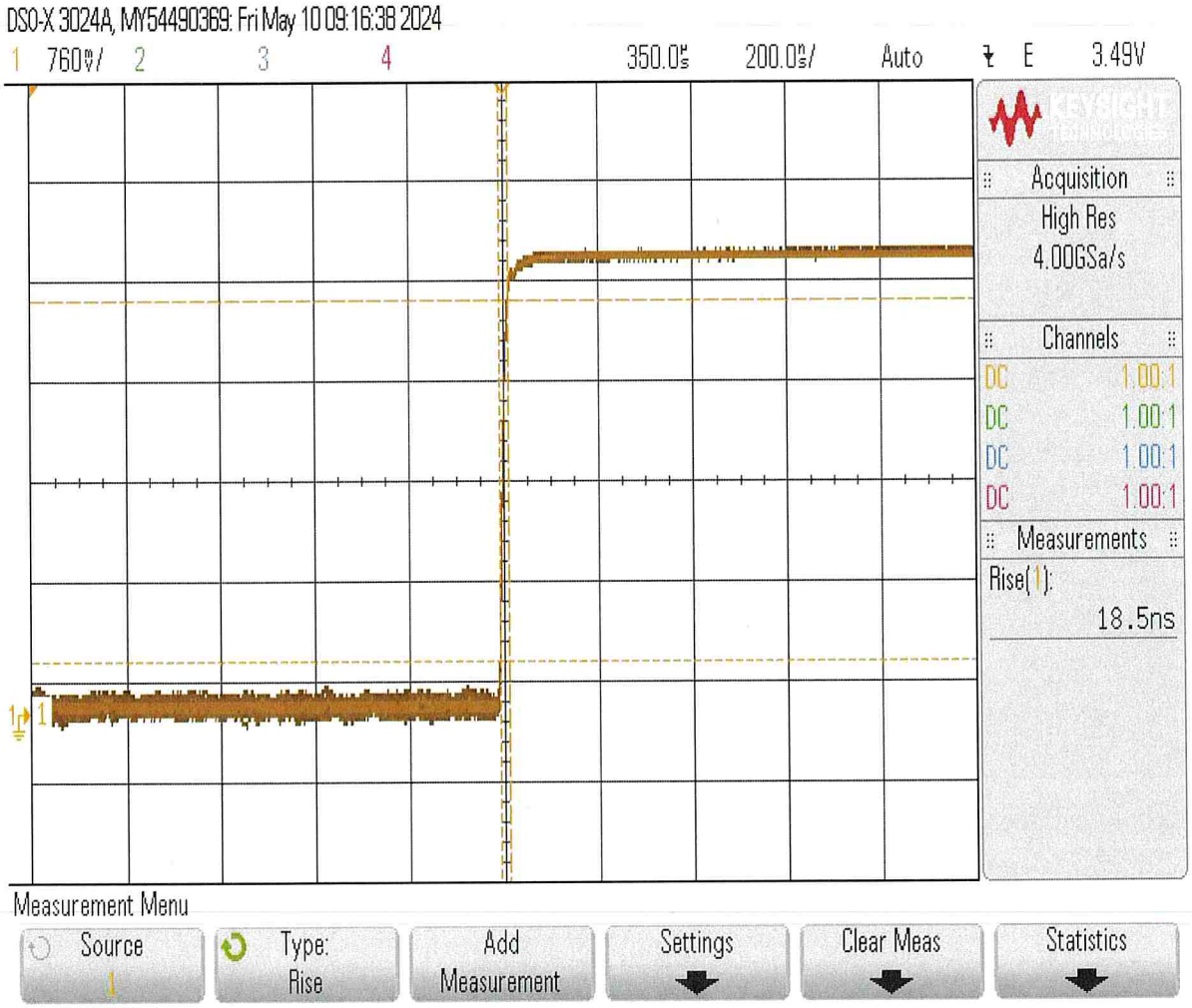
RISE TIME



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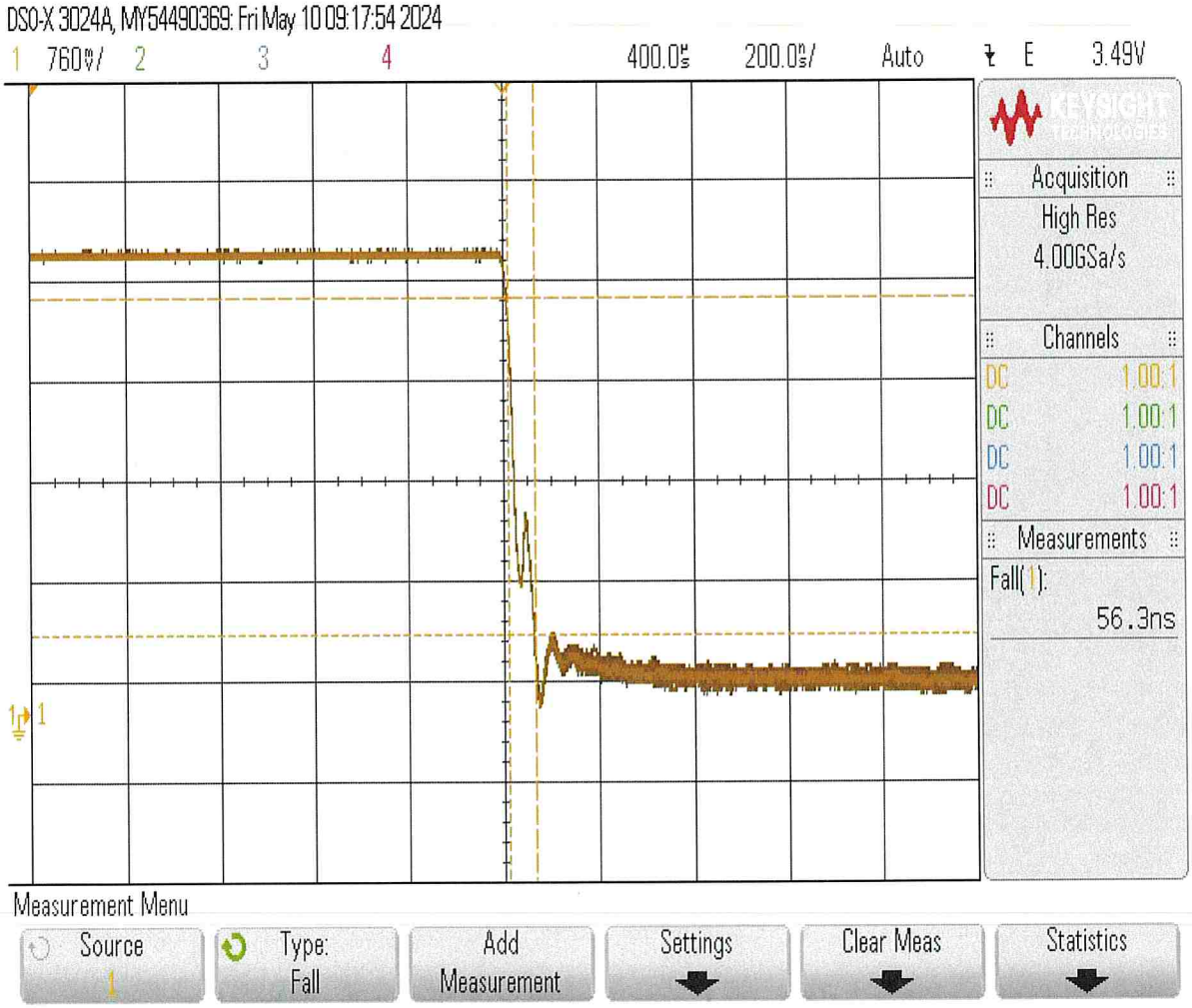
FALL/ RECOVERY TIME



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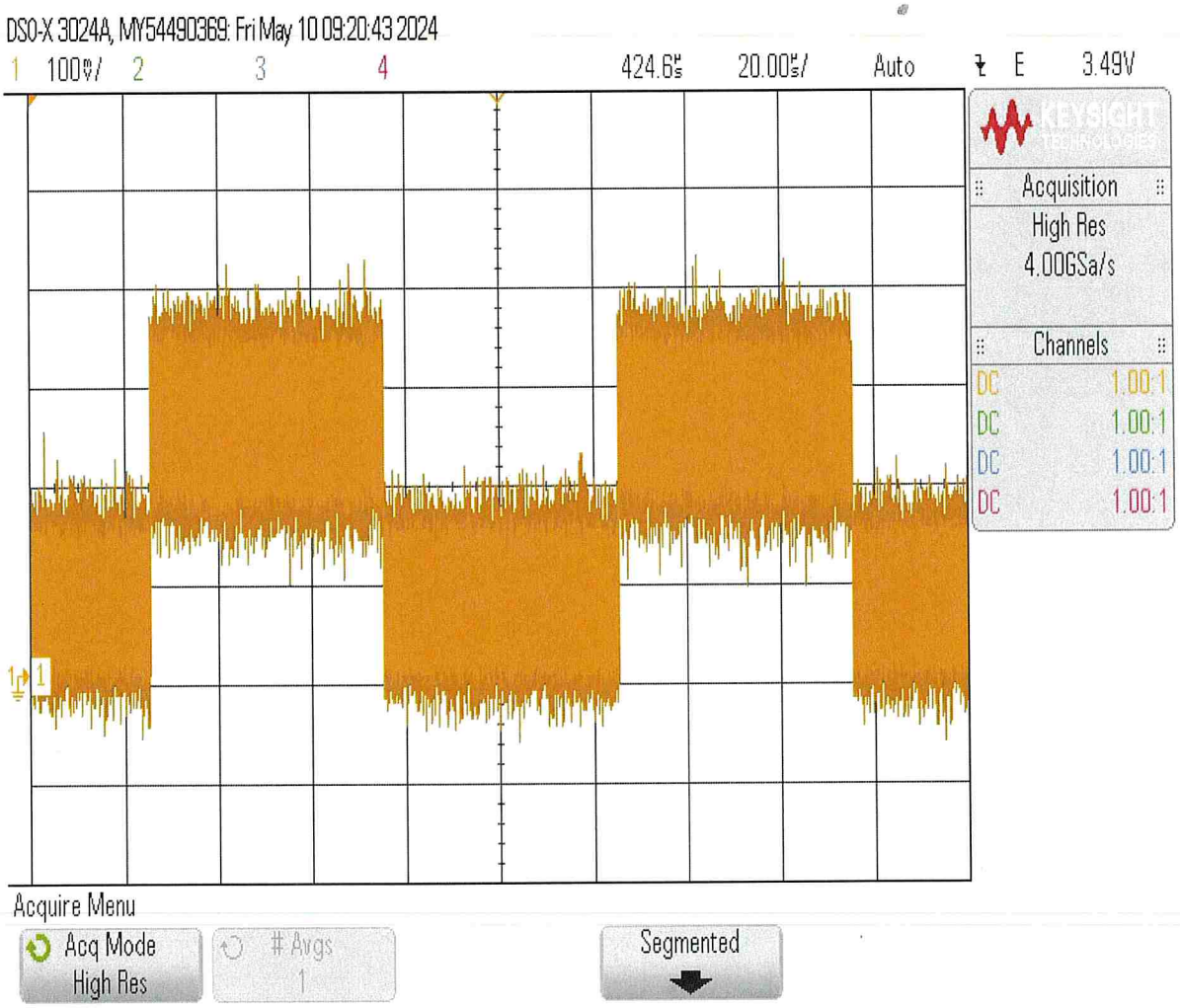
TSS @ -78dBm



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