



**SUMMARY TEST DATA
ON
HADA-D2001**

PL38216/2245

Customer: _____	Tested By: <u>J. Monley</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>HADA-D2001</u>	Date: <u>10/28/22</u>
Serial No: <u>PL38216/2245</u>	Drawing No: <u>27620201</u> Rev: <u>A1</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.5 GHz – 2.0 GHz	0.5 GHz – 2.0 GHz See Plot	PMI QA3
2	TSS:	-44 dBm Min @ -40°C to +85°	-45 dBm See Plot	
3	Frequency Flatness:	±0.75 dB Max	±0.10 dB See Plot	
4	Input / Output Characteristics: (93 Ω)	Y = 2350 + 50X [X: Input (dBm), Y: Output (mv)]	Pass	
5	Logging Accuracy	±1.5 dB Max (@ +25°C, 1.0 GHz)* [-40 dBm ≤ INPUT ≤ 0 dBm] ±2.2 dB Max (Note)	+0.56 dB +1.12 dB See Plot	
6	Log Linearity:	±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C	-0.24 dB +0.43 dB See Plot	
7	Maximum Input Power (CW):	+23 dBm	Pass	
8	Duty Cycle:	100%	Pass	
9	Rise Time:	30 ns Max (10% to 90%)	18.0 nS See Plot	
10	Fall Time:	500 ns Max (@ Pulse width 100usec input) (90% to 10%)	281 nS See Plot	
11	DC Offset: (Input 50 Ω terminated):	+95 mV +55/-100 mV (@ -40°C to +85°C)	+ 84 mV +115 mV	
12	Input VSWR:	2.5:1 Max @ +23 dBm	1.16:1 See Plot	

4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
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13	Propagation Delay:	60 ns Max	40 nS	PMI QA3
14	Power Supply:	+12 ± 1VDC @ 125 mA Max -12 ± 1VDC @ 75 mA Max	90 mA 40 mA	
15	Warm Up Time:	2 Minutes Max	2 Minutes	

*Notes: Includes Frequency Flatness. Input Power, Temperature Deviation and Deviation for DC Offset. The test shall be performed using RG-316 (or equivalent), 20cm, 93±0.5 Ohms terminated.

QA/QC Approval: _____

J. Hunter

Date: _____

11-14-22

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Log Linearity and Log Accuracy @ +25°C

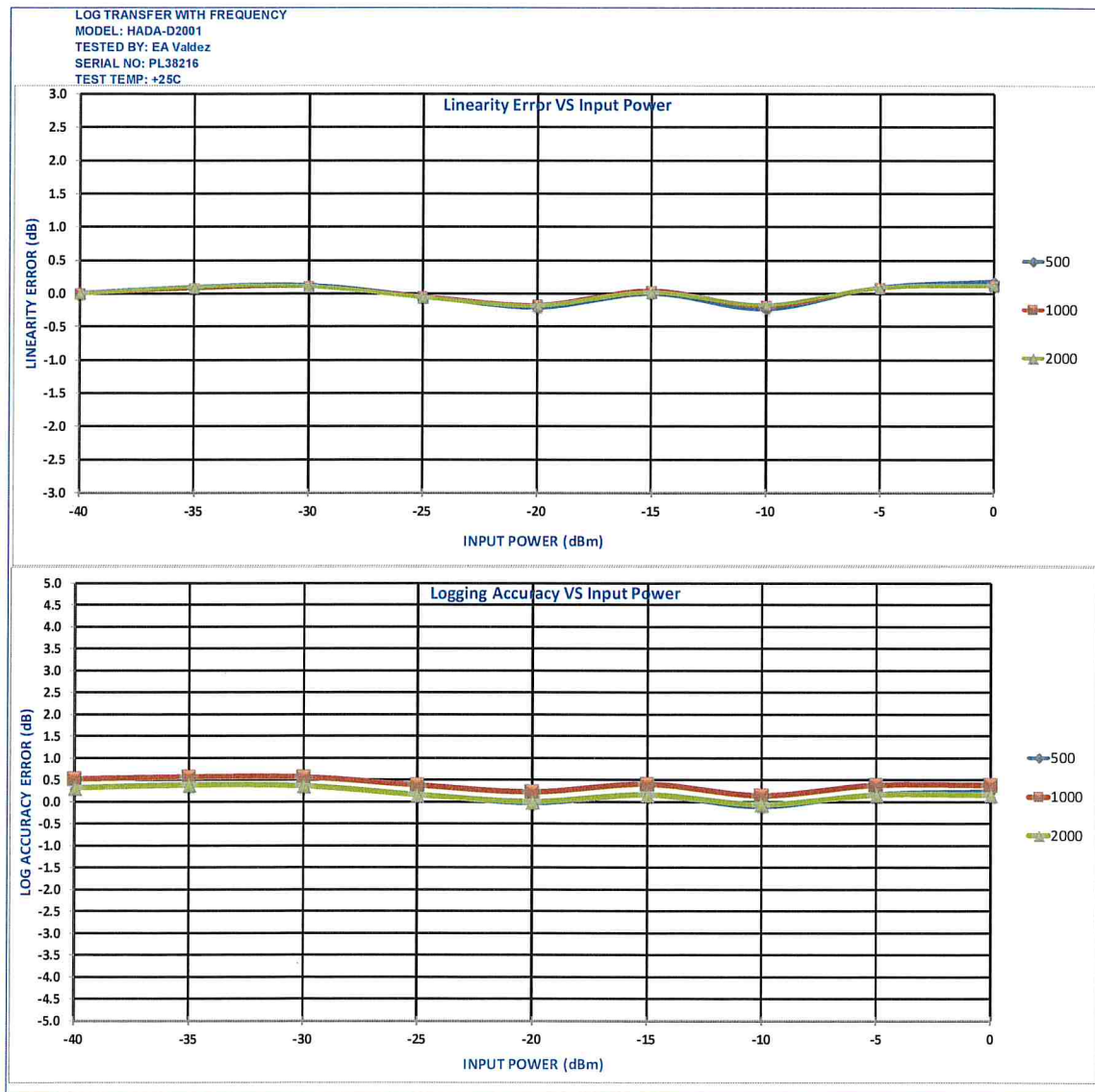
<p>LOG TRANSFER WITH FREQUENCY MODEL: HADA-D2001 TESTED BY: EA Valdez TEST DATE: 11/04/22 SERIAL NO: PL38216 TEST TEMP: +25C</p>			DC Offset= 0.084 V										<p>PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suit 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM</p>																																																																																																								
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SUMMARY TEST DATA ON HADA-D2001

PL38216/2245

Log Linearity and Log Accuracy @ -40°C

LOG TRANSFER WITH FREQUENCY		DC Offset= 0.115 V										RF Input Power (dBm)		
MODEL: HADA-D2001 TESTED BY: EA Valdez TEST DATE: 11/04/22 SERIAL NO: PL38216 TEST TEMP: -40C												 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suite 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM		
Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0	Measured Value (mV)	Error(dB)		
0.5 GHz	INTERCEPT (mV)	395	611	857	1093	1331	1589	1833	2075	2313	MAX	MIN		
	SLOPE (mV/dB)	18	-8	-3	-9	-13	3	5	5	1	LINEARITY ERROR (dB)	0.38	-0.27	
		0.38	-0.16	-0.07	-0.19	-0.27	0.06	0.11	0.11	0.03	LOGGING ACCURACY (dB)	0.90	-0.74	
		0.90	0.22	0.14	-0.14	-0.38	-0.22	-0.34	-0.50	-0.74				
1 GHz	INTERCEPT (mV)	406	622	869	1106	1347	1604	1849	2085	2318	MAX	MIN		
	SLOPE (mV/dB)	16	-9	-4	-9	-9	6	10	4	-5	LINEARITY ERROR (dB)	0.33	-0.20	
		0.33	-0.20	-0.08	-0.18	-0.19	0.13	0.20	0.08	-0.09	LOGGING ACCURACY (dB)	1.12	-0.64	
		1.12	0.44	0.38	0.12	-0.06	0.08	-0.02	-0.30	-0.64				
2 GHz	INTERCEPT (mV)	399	615	862	1098	1338	1595	1841	2078	2308	MAX	MIN		
	SLOPE (mV/dB)	18	-9	-4	-9	-10	5	10	6	-5	LINEARITY ERROR (dB)	0.33	-0.21	
		0.33	-0.19	-0.07	-0.18	-0.21	0.11	0.21	0.12	-0.12	LOGGING ACCURACY (dB)	0.98	-0.84	
		0.98	0.30	0.24	-0.04	-0.24	-0.10	-0.18	-0.44	-0.84				
Flatness +/- dB		0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.10	0.10	Logging Linearity vs Frequency		Error(dB)	
Max Video Output Volts		0.41	0.82	0.87	1.11	1.35	1.60	1.85	2.08	2.32			MAX	MIN
Min Video Output Volts		0.40	0.81	0.88	1.09	1.33	1.58	1.83	2.08	2.31	TOTAL LOG LINEARITY (dB)		0.38	-0.27
											Logging Accuracy vs Frequency		Error(dB)	
													MAX	MIN
											TOTAL LOGGING ACCURACY (dB)		1.12	-0.84

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SUMMARY TEST DATA ON HADA-D2001

PL38216/2245

Log Linearity and Log Accuracy @ +85°C

LOG TRANSFER WITH FREQUENCY			DC Offset= 0.081 V										RF Input Power (dBm)		
MODEL: HADA-D2001 TESTED BY: EA Vaklez TEST DATE: 11/04/22 SERIAL NO: PL38216 TEST TEMP: +85C													PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suit 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM		
Frequency			-40	-35	-30	-25	-20	-15	-10	-5	0				
0.5 GHz	INTERCEPT (mV)	2327	327	589	832	1073	1315	1570	1805	2080	2348	Measured Value (mV) Error (dB)			
	SLOPE (mV/dB)	50	0	12	5	-4	-12	-7	-22	3	21	Error (mV) MAX MIN			
			0.01	0.25	0.11	-0.07	-0.23	-0.13	-0.43	0.07	0.43	LINEARITY ERROR (dB) 0.43 -0.43			
			-0.46	-0.22	-0.36	-0.54	-0.70	-0.60	-0.90	-0.40	-0.04	LOGGING ACCURACY (dB) -0.04 -0.90			
1 GHz	INTERCEPT (mV)	2340	341	602	846	1086	1330	1586	1819	2095	2357	Measured Value (mV) Error (dB)			
	SLOPE (mV/dB)	50	0	11	5	-4	-10	-4	-21	5	17	Error (mV) MAX MIN			
			0.01	0.23	0.09	-0.09	-0.20	-0.08	-0.42	0.11	0.35	LINEARITY ERROR (dB) 0.35 -0.42			
			-0.18	0.04	-0.10	-0.28	-0.40	-0.28	-0.52	-0.10	0.14	LOGGING ACCURACY (dB) 0.14 -0.62			
2 GHz	INTERCEPT (mV)	2329	333	594	836	1076	1321	1575	1811	2082	2348	Measured Value (mV) Error (dB)			
	SLOPE (mV/dB)	49.9	0	11	4	-5	-10	-5	-19	3	19	Error (mV) MAX MIN			
			0.01	0.24	0.09	-0.10	-0.19	-0.10	-0.38	0.05	0.38	LINEARITY ERROR (dB) 0.38 -0.38			
			-0.34	-0.12	-0.28	-0.48	-0.58	-0.50	-0.73	-0.36	-0.04	LOGGING ACCURACY (dB) -0.04 -0.78			
Flatness +/- dB													Logging Linearity vs Frequency Error (dB)		
Max Video Output Volts													MAX MIN		
Min Video Output Volts													TOTAL LOG LINEARITY (dB) 0.43 -0.43		
													Logging Accuracy vs Frequency Error (dB)		
													MAX MIN		
													TOTAL LOGGING ACCURACY (dB) 0.14 -0.90		

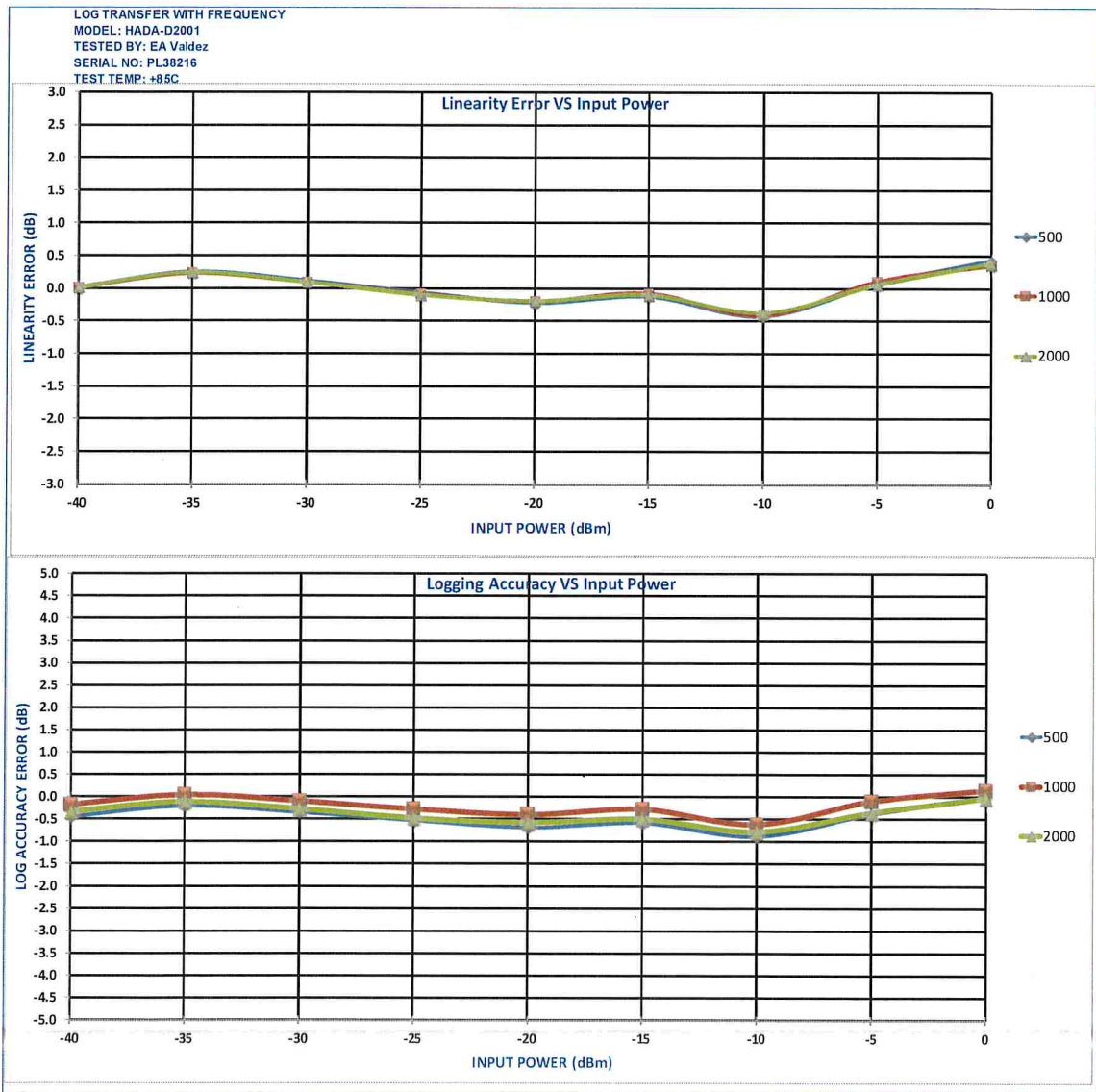
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SUMMARY TEST DATA ON HADA-D2001

PL38216/2245

Log Linearity and Log Accuracy @ +85°C



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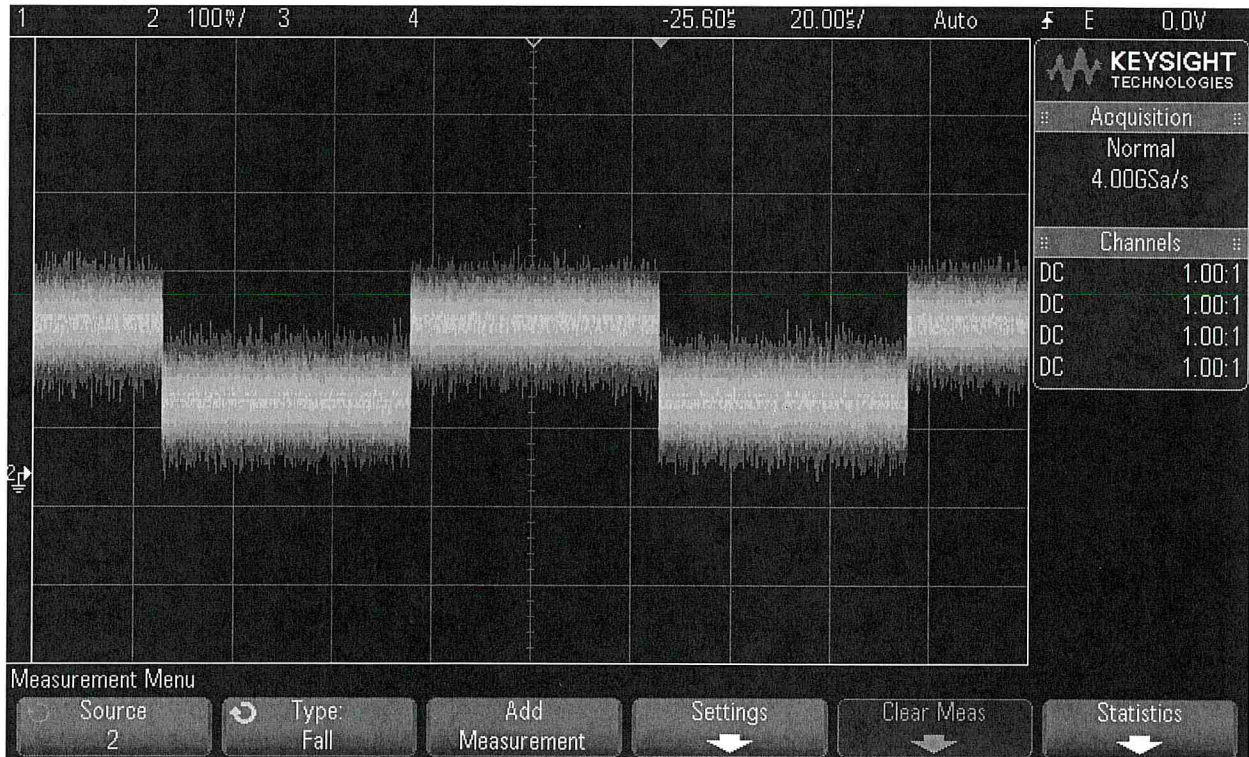


**SUMMARY TEST DATA
ON
HADA-D2001**

PL38216/2245

TSS @ -45 dBm

DSO-X 3024A, MY54490369; Tue Nov 08 17:25:35 2022



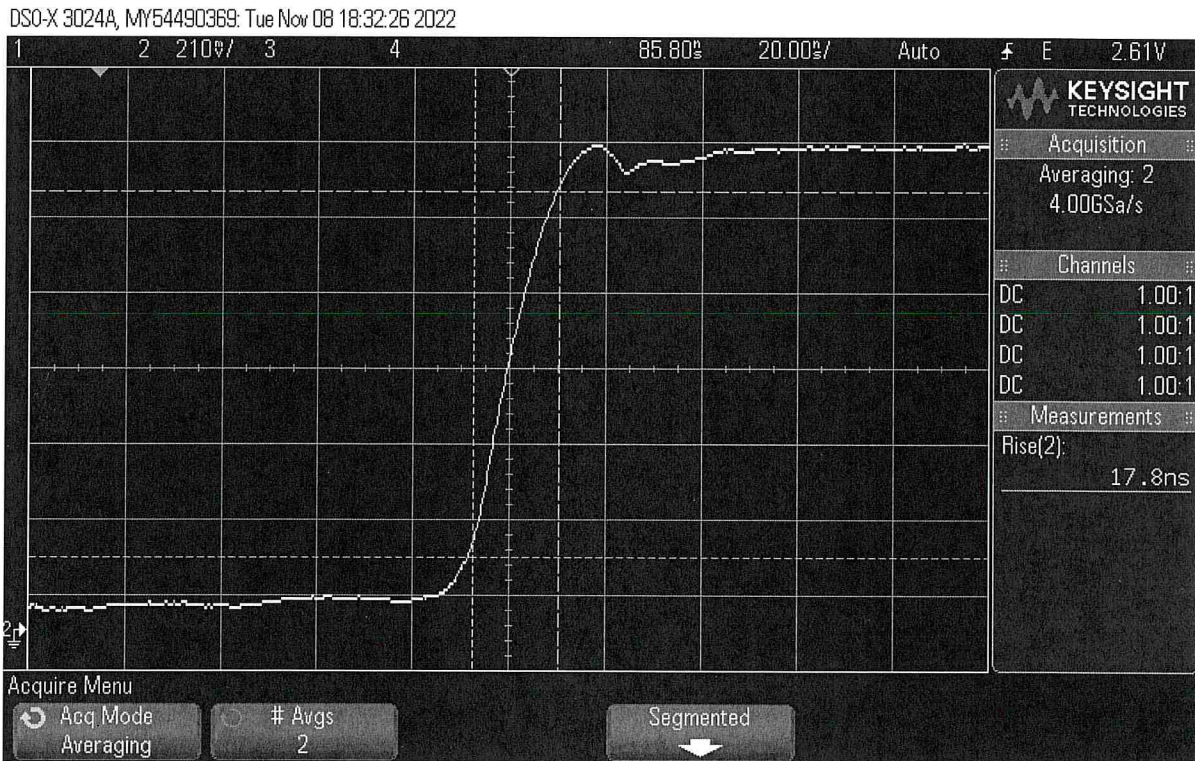
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**SUMMARY TEST DATA
ON
HADA-D2001**

PL38216/2245

Rise Time 17.8nS



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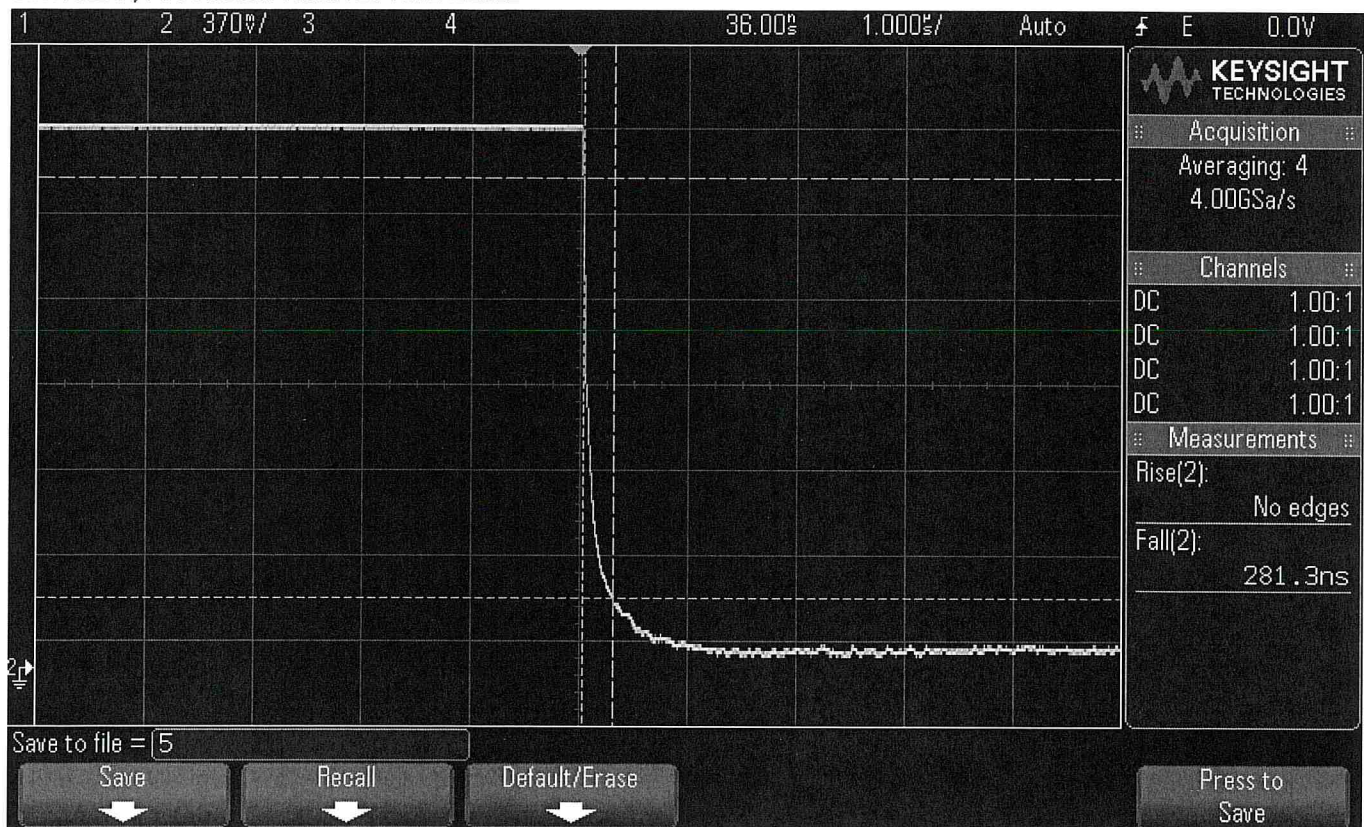


**SUMMARY TEST DATA
ON
HADA-D2001**

PL38216/2245

Fall Time 281nS

DSO-X 3024A, MY54490369: Tue Nov 08 11:52:43 2022



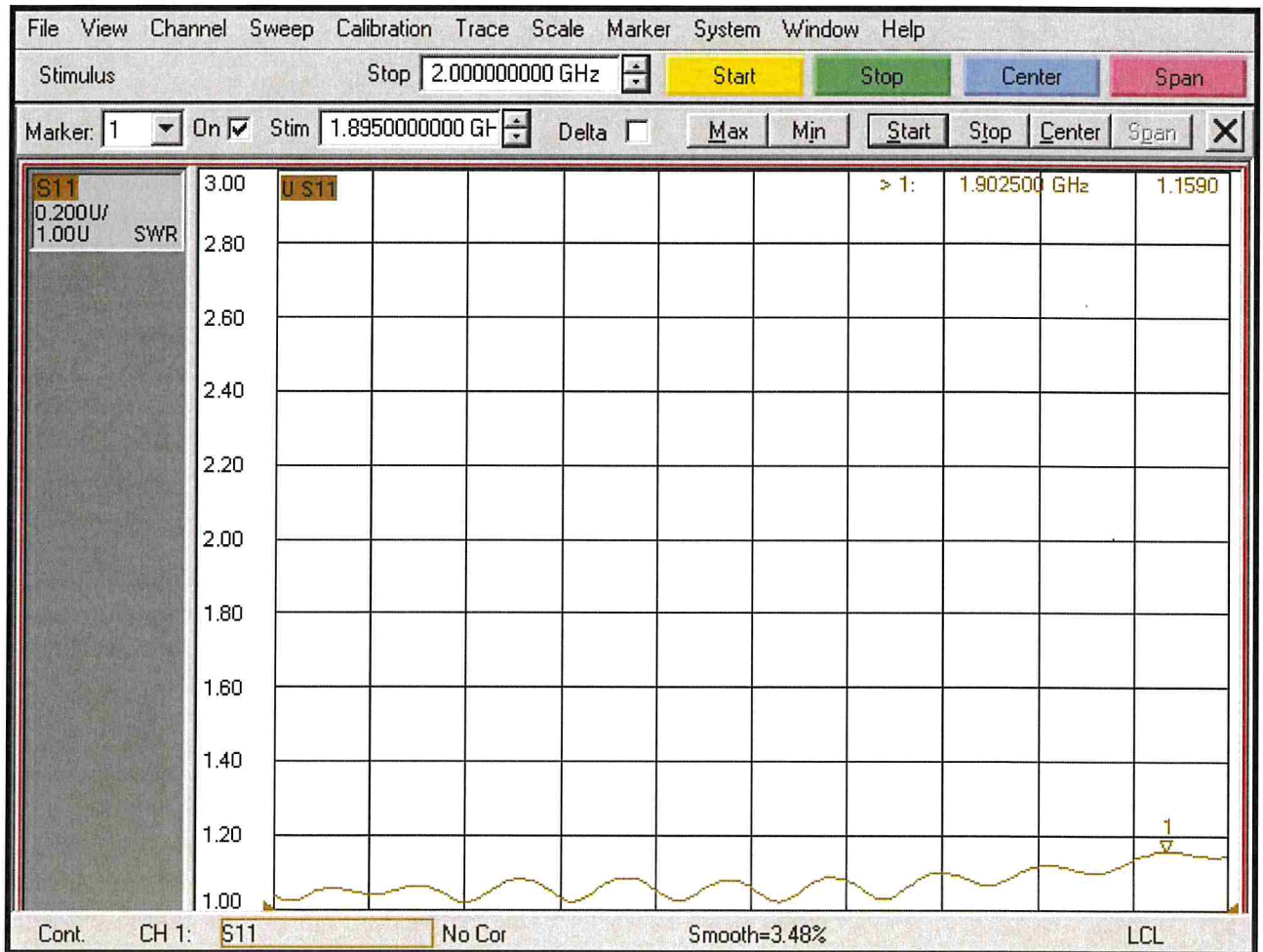
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**SUMMARY TEST DATA
ON
HADA-D2001**

PL38216/2245

VSWR 116:1



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