

SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-6G18G-CD-2-OPT218
SERIAL NO: PL42814/2346

TESTED BY: Jim Hopson
TEMPERATURE: +25°C
DATE: 11/14/2023
DRAWING NO: 27623906 REV: A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC PMI QA3
1	Frequency Range	2.0 GHz – 18.0 GHz	GHz - GHz	
2	Flatness	± 2.0 dB Maximum	± 1.7dB 25°C See Plots	
3	TSS	-70 dBm Minimum	-71dBm	
4	VSWR	2.0:1 (Input)	1.55:1	
5	Input Power	+17 dBm CW Maximum	Pass	
6	RF Out	+13 dBm ±3 dB Typical	14.1/11.5dBm	
7	Log Slope	25 mV/dB (±10%) 50Ω	24.8mV/dB See Plot	
8	Log Range	-70 to +5 dBm	See Plots	
9	Log Linearity	±2.5 dB (-40°C - +85°C)	1.70/-1.32dB See Plots	
10	Pulse Range	30 ns to CW	Pass	
11	Rise Time	10 ns (6 ns Typical)	6.0ns	
12	Recovery Time	60 ns Typical	60 ns Typical	
13	DC Supply	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	220 mA 100 mA	

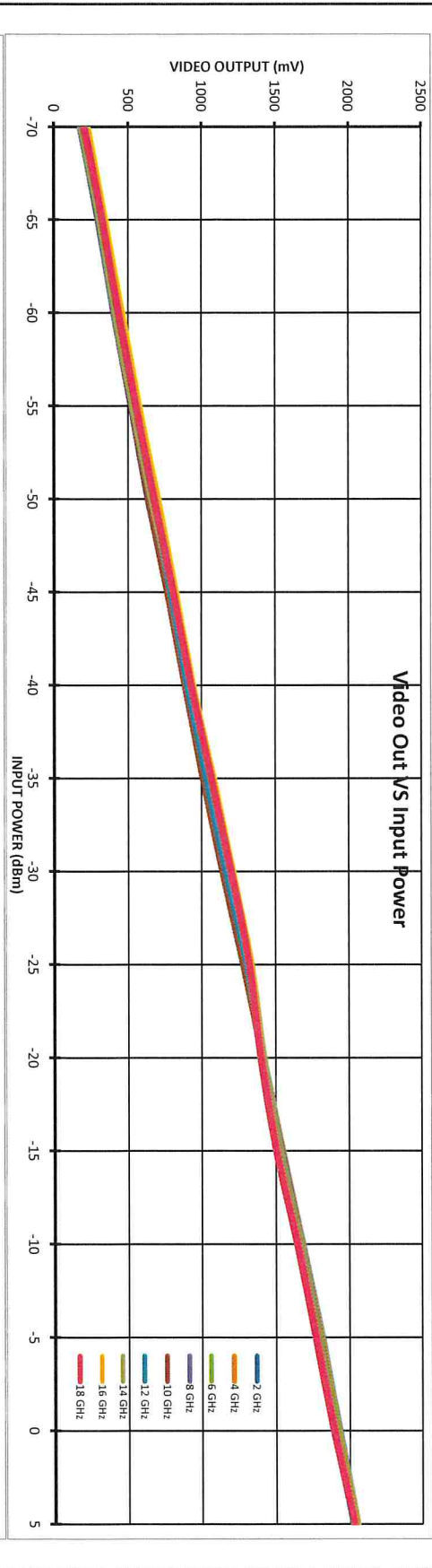
QA/QC Approval: *H. Huts*

Date: 11-14-23

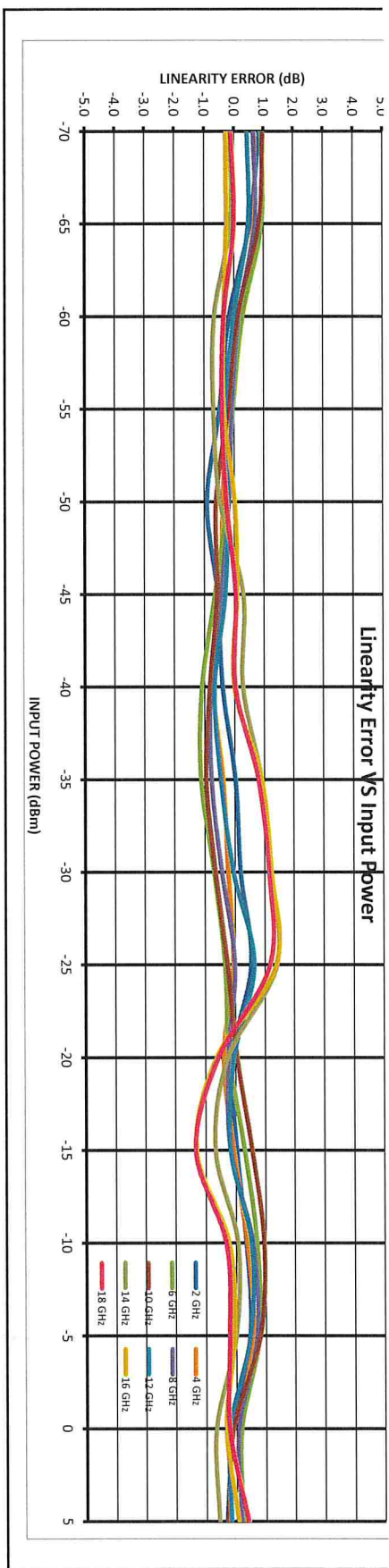


Frequency

Frequency	INTERCEPT (mV)	SLOPE (mV/DB)	LIN. ERR. (DB)	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
2 GHz	INTERCEPT (mV)	1937		167	287	397	517	634	771	903	1042	1174	1311	1422	1554	1690	1821	1934	2057
	SLOPE (mV/DB)	25.6		22	14	-4	-12	-23	-14	-10	1	5	14	-3	1	9	12	-3	-8
	LIN. ERR. (DB)	0.9		0.85	0.54	-0.16	-0.47	-0.90	-0.55	-0.39	0.04	0.19	0.55	-0.12	0.04	0.35	0.47	-0.12	-0.31
4 GHz	INTERCEPT (mV)	1925		205	329	440	555	675	797	915	1047	1175	1303	1419	1551	1686	1815	1927	2055
	SLOPE (mV/DB)	24.81		17	17	4	-5	-9	-11	-17	-9	-5	-1	-10	-2	9	14	2	6
	LIN. ERR. (DB)	0.697		0.69	0.69	0.16	-0.21	-0.37	-0.45	-0.70	-0.38	-0.22	-0.06	-0.38	-0.06	0.38	0.58	0.09	0.25
6 GHz	INTERCEPT (mV)	1918		190	315	424	541	661	776	890	1014	1150	1284	1412	1550	1685	1812	1922	2048
	SLOPE (mV/DB)	25.01		23	23	7	-1	-6	-16	-27	-28	-17	-8	-5	8	18	20	4	5
	LIN. ERR. (DB)	1.123		0.93	0.93	0.29	-0.03	-0.24	-0.64	-1.08	-1.12	-0.69	-0.33	-0.21	0.31	0.70	0.78	0.18	0.21
8 GHz	INTERCEPT (mV)	1904		190	315	425	543	664	781	896	1020	1152	1286	1404	1529	1671	1798	1906	2032
	SLOPE (mV/DB)	24.72		16	18	4	-2	-4	-11	-19	-19	-11	0	-6	-4	14	18	2	4
	LIN. ERR. (DB)	0.784		0.65	0.71	0.16	-0.06	-0.17	-0.44	-0.78	-0.77	-0.43	-0.01	-0.23	-0.17	0.57	0.71	0.08	0.18
10 GHz	INTERCEPT (mV)	1914		172	295	403	521	637	764	884	1007	1141	1277	1411	1550	1686	1809	1912	2034
	SLOPE (mV/DB)	25.25		25	22	3	-5	-15	-14	-21	-24	-16	-6	1	14	24	21	-2	-7
	LIN. ERR. (DB)	0.984		0.98	0.86	0.13	-0.19	-0.60	-0.57	-0.82	-0.94	-0.64	-0.25	0.06	0.56	0.95	0.82	-0.10	-0.27
12 GHz	INTERCEPT (mV)	1908		197	321	432	548	673	794	908	1036	1169	1309	1415	1535	1675	1797	1903	2027
	SLOPE (mV/DB)	24.6		11	12	0	-7	-5	-7	-16	-11	-1	16	-1	-4	13	12	-5	-4
	LIN. ERR. (DB)	0.657		0.44	0.48	0.00	-0.29	-0.21	-0.29	-0.66	-0.45	-0.05	0.64	-0.05	-0.17	0.52	0.48	-0.21	-0.17
14 GHz	INTERCEPT (mV)	1922		175	300	411	535	665	809	933	1073	1205	1335	1418	1532	1675	1798	1906	2033
	SLOPE (mV/DB)	24.92		-3	-3	-16	-17	-12	-17	7	23	30	35	-6	-17	2	0	-16	-14
	LIN. ERR. (DB)	1.422		-0.13	-0.12	-0.66	-0.68	-0.47	0.31	0.29	0.91	1.20	1.42	-0.25	-0.67	0.07	0.00	-0.66	-0.56
16 GHz	INTERCEPT (mV)	1904		228	348	465	584	712	833	950	1091	1218	1341	1412	1515	1660	1783	1896	2025
	SLOPE (mV/DB)	23.85		-7	-6	-8	-8	0	2	0	22	30	33	-15	-31	-5	-2	-8	2
	LIN. ERR. (DB)	1.398		-0.28	-0.24	-0.34	-0.35	0.02	0.09	0.00	0.91	1.24	1.40	-0.62	-1.31	-0.22	-0.07	-0.33	0.08
18 GHz	INTERCEPT (mV)	1901		199	323	436	556	681	810	931	1071	1201	1323	1402	1505	1651	1775	1896	2033
	SLOPE (mV/DB)	24.29		-2	0	-8	-10	-6	2	1	20	28	29	-14	-32	-8	-5	-5	10
	LIN. ERR. (DB)	1.321		-0.09	0.01	-0.34	-0.40	-0.25	0.06	0.04	0.81	1.16	1.19	-0.56	-1.32	-0.31	-0.20	-0.22	0.42
Avg. Slope: 24.8 mV/DB																			
Flatness dB: ±1.7 dB																			



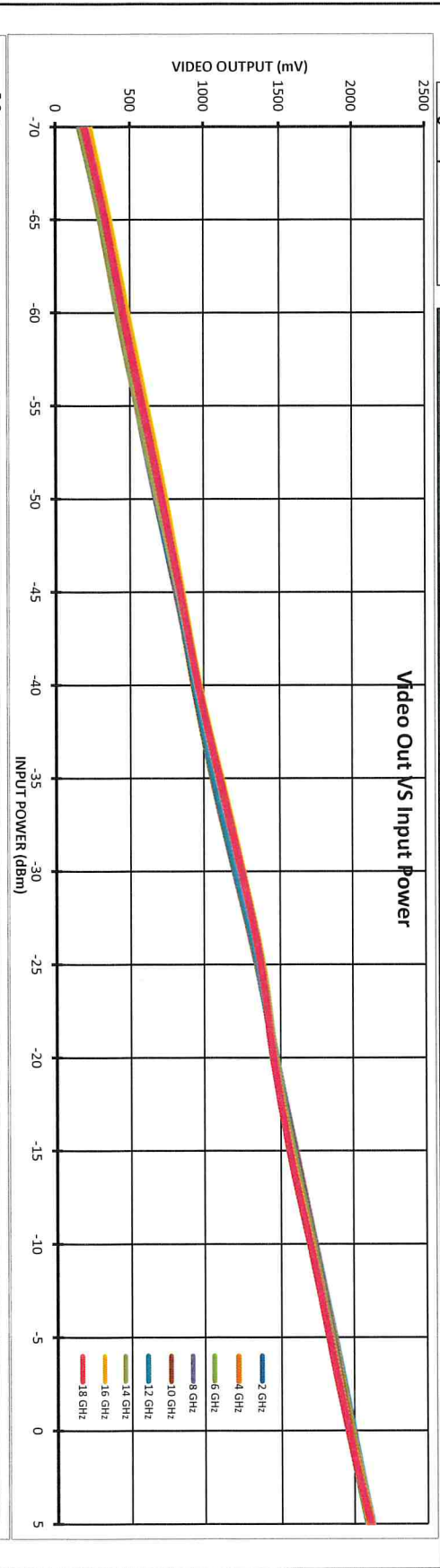
P142814
+25°C



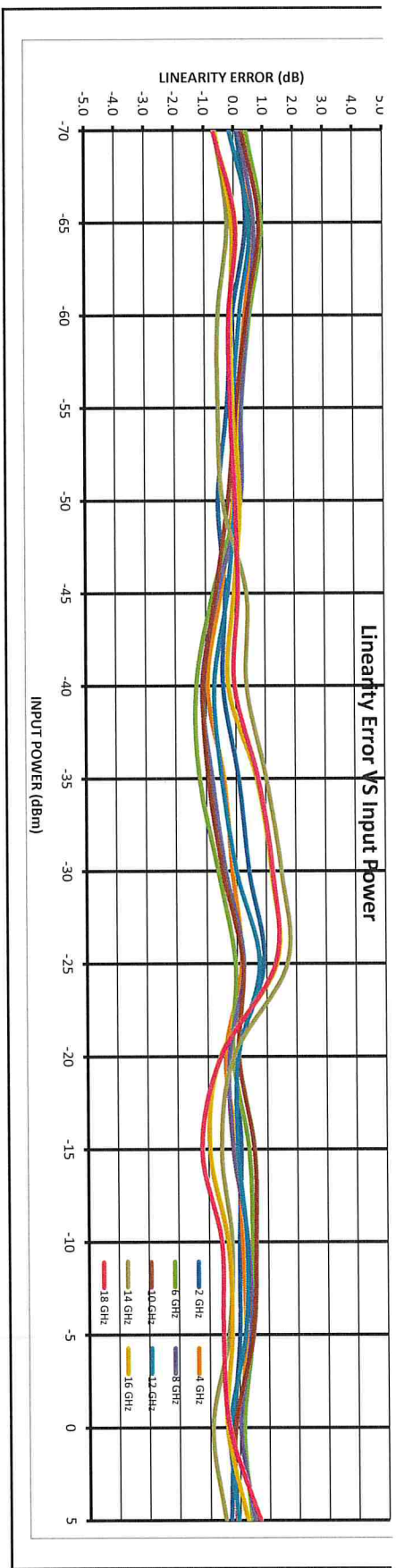
Model: SDLVA-6G18G-CD-2 - OPT218
 Serial No: PL42814
 Date: 1/109/23
 Tested By: Jim Hopson
 Test Temp: 40°C



Frequency	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5																																																						
2 GHz	<table border="1"> <tr> <td>INTERCEPT (mV)</td> <td>2004</td> <td>156</td> <td>296</td> <td>416</td> <td>543</td> <td>667</td> <td>805</td> <td>935</td> <td>1081</td> <td>1222</td> <td>1367</td> <td>1475</td> <td>1610</td> <td>1740</td> <td>1872</td> <td>1998</td> <td>2128</td> </tr> <tr> <td>SLOPE (mV/dB)</td> <td>26.44</td> <td>3</td> <td>11</td> <td>-1</td> <td>-7</td> <td>-15</td> <td>-9</td> <td>-11</td> <td>3</td> <td>11</td> <td>24</td> <td>0</td> <td>3</td> <td>1</td> <td>1</td> <td>-6</td> <td>-8</td> </tr> <tr> <td>LN. ERR. (dB)</td> <td>0.9</td> <td>0.11</td> <td>0.41</td> <td>-0.05</td> <td>-0.25</td> <td>-0.56</td> <td>-0.34</td> <td>-0.42</td> <td>0.10</td> <td>0.43</td> <td>0.92</td> <td>0.00</td> <td>0.11</td> <td>0.03</td> <td>0.02</td> <td>-0.21</td> <td>-0.29</td> </tr> </table>																INTERCEPT (mV)	2004	156	296	416	543	667	805	935	1081	1222	1367	1475	1610	1740	1872	1998	2128	SLOPE (mV/dB)	26.44	3	11	-1	-7	-15	-9	-11	3	11	24	0	3	1	1	-6	-8	LN. ERR. (dB)	0.9	0.11	0.41	-0.05	-0.25	-0.56	-0.34	-0.42	0.10	0.43	0.92	0.00	0.11	0.03	0.02	-0.21	-0.29
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SLOPE (mV/dB)	25.35	-4	13	5	-1	0	-7	-18	-12	0	19	1	0	7	5	-8	-1																																																					
LN. ERR. (dB)	0.767	-0.15	0.53	0.19	-0.04	0.01	-0.26	-0.72	-0.48	0.01	0.77	0.03	0.00	0.28	0.21	-0.33	-0.04																																																					
14 GHz	<table border="1"> <tr> <td>INTERCEPT (mV)</td> <td>1984</td> <td>158</td> <td>298</td> <td>419</td> <td>548</td> <td>681</td> <td>831</td> <td>960</td> <td>1106</td> <td>1248</td> <td>1382</td> <td>1464</td> <td>1582</td> <td>1720</td> <td>1846</td> <td>1961</td> <td>2101</td> </tr> <tr> <td>SLOPE (mV/dB)</td> <td>25.85</td> <td>-17</td> <td>-6</td> <td>-14</td> <td>-14</td> <td>-11</td> <td>10</td> <td>10</td> <td>27</td> <td>39</td> <td>44</td> <td>-3</td> <td>-14</td> <td>-6</td> <td>-9</td> <td>-23</td> <td>-12</td> </tr> <tr> <td>LN. ERR. (dB)</td> <td>1.705</td> <td>-0.65</td> <td>-0.23</td> <td>-0.55</td> <td>-0.56</td> <td>-0.41</td> <td>0.39</td> <td>0.38</td> <td>1.03</td> <td>1.52</td> <td>1.70</td> <td>-0.12</td> <td>-0.56</td> <td>-0.22</td> <td>-0.35</td> <td>-0.90</td> <td>-0.48</td> </tr> </table>																INTERCEPT (mV)	1984	158	298	419	548	681	831	960	1106	1248	1382	1464	1582	1720	1846	1961	2101	SLOPE (mV/dB)	25.85	-17	-6	-14	-14	-11	10	10	27	39	44	-3	-14	-6	-9	-23	-12	LN. ERR. (dB)	1.705	-0.65	-0.23	-0.55	-0.56	-0.41	0.39	0.38	1.03	1.52	1.70	-0.12	-0.56	-0.22	-0.35	-0.90	-0.48
INTERCEPT (mV)	1984	158	298	419	548	681	831	960	1106	1248	1382	1464	1582	1720	1846	1961	2101																																																					
SLOPE (mV/dB)	25.85	-17	-6	-14	-14	-11	10	10	27	39	44	-3	-14	-6	-9	-23	-12																																																					
LN. ERR. (dB)	1.705	-0.65	-0.23	-0.55	-0.56	-0.41	0.39	0.38	1.03	1.52	1.70	-0.12	-0.56	-0.22	-0.35	-0.90	-0.48																																																					
16 GHz	<table border="1"> <tr> <td>INTERCEPT (mV)</td> <td>1969</td> <td>228</td> <td>365</td> <td>487</td> <td>612</td> <td>741</td> <td>859</td> <td>977</td> <td>1124</td> <td>1259</td> <td>1386</td> <td>1462</td> <td>1576</td> <td>1714</td> <td>1840</td> <td>1959</td> <td>2099</td> </tr> <tr> <td>SLOPE (mV/dB)</td> <td>24.65</td> <td>-16</td> <td>-2</td> <td>-3</td> <td>-1</td> <td>4</td> <td>-1</td> <td>-6</td> <td>18</td> <td>29</td> <td>33</td> <td>-14</td> <td>-23</td> <td>-9</td> <td>-6</td> <td>-10</td> <td>7</td> </tr> <tr> <td>LN. ERR. (dB)</td> <td>1.344</td> <td>-0.63</td> <td>-0.08</td> <td>-0.13</td> <td>-0.06</td> <td>0.18</td> <td>-0.04</td> <td>-0.25</td> <td>0.72</td> <td>1.19</td> <td>1.34</td> <td>-0.57</td> <td>-0.95</td> <td>-0.35</td> <td>-0.24</td> <td>-0.41</td> <td>0.27</td> </tr> </table>																INTERCEPT (mV)	1969	228	365	487	612	741	859	977	1124	1259	1386	1462	1576	1714	1840	1959	2099	SLOPE (mV/dB)	24.65	-16	-2	-3	-1	4	-1	-6	18	29	33	-14	-23	-9	-6	-10	7	LN. ERR. (dB)	1.344	-0.63	-0.08	-0.13	-0.06	0.18	-0.04	-0.25	0.72	1.19	1.34	-0.57	-0.95	-0.35	-0.24	-0.41	0.27
INTERCEPT (mV)	1969	228	365	487	612	741	859	977	1124	1259	1386	1462	1576	1714	1840	1959	2099																																																					
SLOPE (mV/dB)	24.65	-16	-2	-3	-1	4	-1	-6	18	29	33	-14	-23	-9	-6	-10	7																																																					
LN. ERR. (dB)	1.344	-0.63	-0.08	-0.13	-0.06	0.18	-0.04	-0.25	0.72	1.19	1.34	-0.57	-0.95	-0.35	-0.24	-0.41	0.27																																																					
18 GHz	<table border="1"> <tr> <td>INTERCEPT (mV)</td> <td>1970</td> <td>188</td> <td>333</td> <td>453</td> <td>580</td> <td>710</td> <td>838</td> <td>961</td> <td>1107</td> <td>1245</td> <td>1373</td> <td>1452</td> <td>1562</td> <td>1704</td> <td>1831</td> <td>1962</td> <td>2114</td> </tr> <tr> <td>SLOPE (mV/dB)</td> <td>25.22</td> <td>-17</td> <td>2</td> <td>-4</td> <td>-3</td> <td>1</td> <td>2</td> <td>-1</td> <td>19</td> <td>31</td> <td>33</td> <td>-14</td> <td>-30</td> <td>-14</td> <td>-13</td> <td>-8</td> <td>17</td> </tr> <tr> <td>LN. ERR. (dB)</td> <td>1.31</td> <td>-0.68</td> <td>0.07</td> <td>-0.17</td> <td>-0.13</td> <td>0.02</td> <td>-0.10</td> <td>-0.03</td> <td>0.76</td> <td>1.23</td> <td>1.31</td> <td>-0.56</td> <td>-1.20</td> <td>-0.57</td> <td>-0.53</td> <td>-0.34</td> <td>0.69</td> </tr> </table>																INTERCEPT (mV)	1970	188	333	453	580	710	838	961	1107	1245	1373	1452	1562	1704	1831	1962	2114	SLOPE (mV/dB)	25.22	-17	2	-4	-3	1	2	-1	19	31	33	-14	-30	-14	-13	-8	17	LN. ERR. (dB)	1.31	-0.68	0.07	-0.17	-0.13	0.02	-0.10	-0.03	0.76	1.23	1.31	-0.56	-1.20	-0.57	-0.53	-0.34	0.69
INTERCEPT (mV)	1970	188	333	453	580	710	838	961	1107	1245	1373	1452	1562	1704	1831	1962	2114																																																					
SLOPE (mV/dB)	25.22	-17	2	-4	-3	1	2	-1	19	31	33	-14	-30	-14	-13	-8	17																																																					
LN. ERR. (dB)	1.31	-0.68	0.07	-0.17	-0.13	0.02	-0.10	-0.03	0.76	1.23	1.31	-0.56	-1.20	-0.57	-0.53	-0.34	0.69																																																					

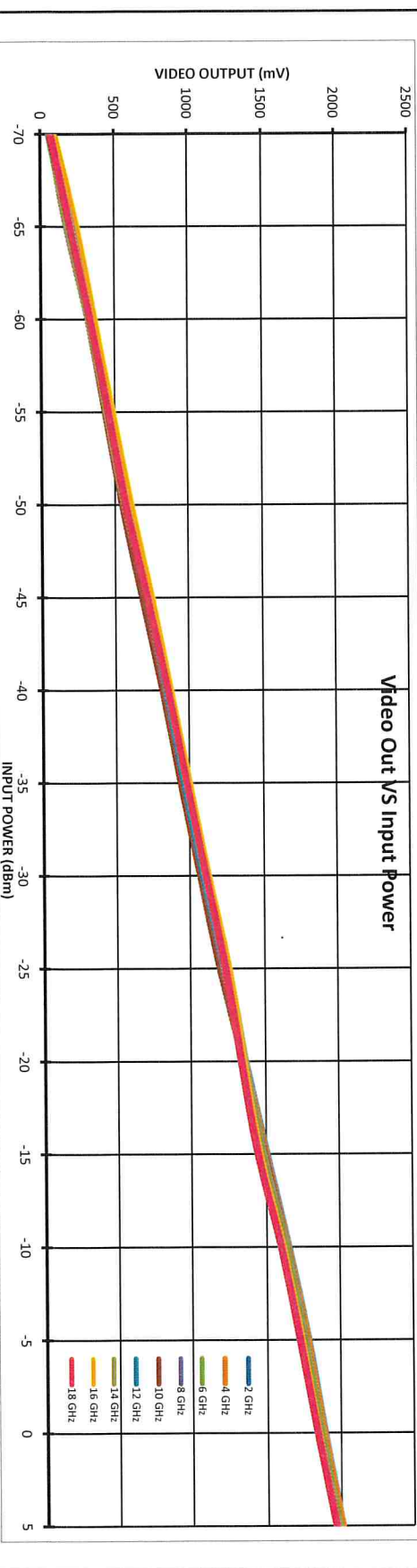


PL42814
-40°C



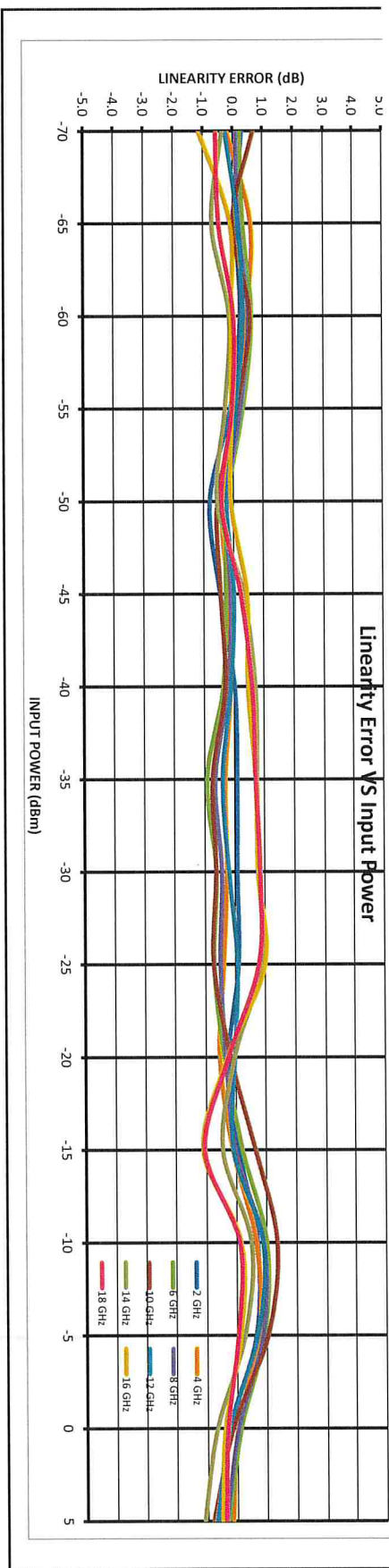


Frequency	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
2 GHz	INTERCEPT (mV)	1901	1988	333	455	568	708	852	985	1116	1248	1370	1510	1657	1787	1895
	SLOPE (mV/dB)	26.25	8	3	7	-2	-21	-12	1	3	2	3	3	3	3	3
	LIN. ERR. (dB)	0.8	0.31	0.11	0.26	-0.10	-0.79	-0.46	0.03	0.10	0.09	0.12	-0.23	0.10	0.70	0.65
4 GHz	INTERCEPT (mV)	1889	241	365	485	599	732	862	985	1114	1239	1363	1502	1650	1780	1889
	SLOPE (mV/dB)	25.6	-5	16	12	4	-10	-5	-3	-8	-7	-10	-14	-3	17	19
	LIN. ERR. (dB)	0.749	-0.20	0.62	0.47	0.15	-0.39	-0.20	-0.31	-0.27	-0.39	-0.54	-0.11	0.67	0.75	0.01
6 GHz	INTERCEPT (mV)	1873	199	336	458	573	701	828	943	1080	1207	1345	1490	1640	1767	1876
	SLOPE (mV/dB)	25.88	6	9	16	9	-6	-7	-9	-24	-16	-19	-10	6	26	24
	LIN. ERR. (dB)	1.011	0.23	0.33	0.63	0.34	-0.22	-0.27	-0.36	-0.92	-0.63	-0.72	-0.39	0.22	1.01	0.92
8 GHz	INTERCEPT (mV)	1865	198	335	457	573	705	831	948	1082	1209	1342	1478	1631	1759	1866
	SLOPE (mV/dB)	25.72	3	5	13	7	-6	-3	-5	-17	-13	-9	-1	23	23	1
	LIN. ERR. (dB)	0.901	0.10	0.19	0.52	0.26	-0.23	-0.10	-0.20	-0.65	-0.44	-0.50	-0.33	-0.05	0.90	0.88
10 GHz	INTERCEPT (mV)	1873	165	312	431	545	679	814	934	1068	1197	1343	1496	1646	1769	1869
	SLOPE (mV/dB)	26.28	18	0	16	3	-14	-11	-8	-19	-19	-4	17	36	27	-4
	LIN. ERR. (dB)	1.364	0.70	0.00	0.60	0.12	-0.54	-0.44	-0.30	-0.73	-0.63	-0.72	-0.17	0.66	1.36	1.05
12 GHz	INTERCEPT (mV)	1870	213	345	467	586	720	845	965	1098	1233	1358	1484	1637	1760	1863
	SLOPE (mV/dB)	25.56	-7	4	9	3	-6	0	-3	-10	-5	-5	2	3	23	18
	LIN. ERR. (dB)	0.885	-0.26	0.18	0.34	0.11	-0.23	0.01	-0.10	-0.40	-0.20	-0.03	-0.10	0.89	0.70	-0.27
14 GHz	INTERCEPT (mV)	1884	176	321	447	570	723	863	994	1125	1257	1363	1482	1637	1761	1866
	SLOPE (mV/dB)	25.99	-9	-18	-3	-7	-14	9	19	20	23	-1	-12	13	7	-18
	LIN. ERR. (dB)	1.104	-0.36	-0.71	-0.13	-0.28	-0.55	0.34	0.73	0.77	0.81	0.89	-0.04	0.51	0.28	-0.68
16 GHz	INTERCEPT (mV)	1865	243	368	493	617	755	880	1011	1137	1267	1360	1464	1620	1744	1855
	SLOPE (mV/dB)	24.93	-28	-2	-2	-1	-2	11	12	18	25	-7	-27	4	3	-10
	LIN. ERR. (dB)	1.141	-1.14	-0.08	-0.07	-0.05	0.46	0.47	0.73	0.78	1.00	-0.27	-1.10	0.16	0.13	-0.41
18 GHz	INTERCEPT (mV)	1850	194	333	458	575	718	854	983	1113	1238	1338	1444	1600	1725	1842
	SLOPE (mV/dB)	25.3	-14	-12	1	-1	-10	6	16	18	22	20	-6	3	1	-8
	LIN. ERR. (dB)	1.053	-0.57	-0.47	0.03	-0.03	-0.40	0.25	0.62	0.72	0.86	0.80	-0.24	-1.05	0.11	0.06
	Avg. Slope: 25.7 mV/dB		0.8	1.5	1.1	1.2	1.4	1.5	1.3	1.5	1.3	1.4	0.6	1.3	1.1	1.2
	Measured Value (mV)															
	ERROR (mV)															
	LINEARITY ERROR (dB)															
	Flatness: dB: ±1.5 dB															



PL42814

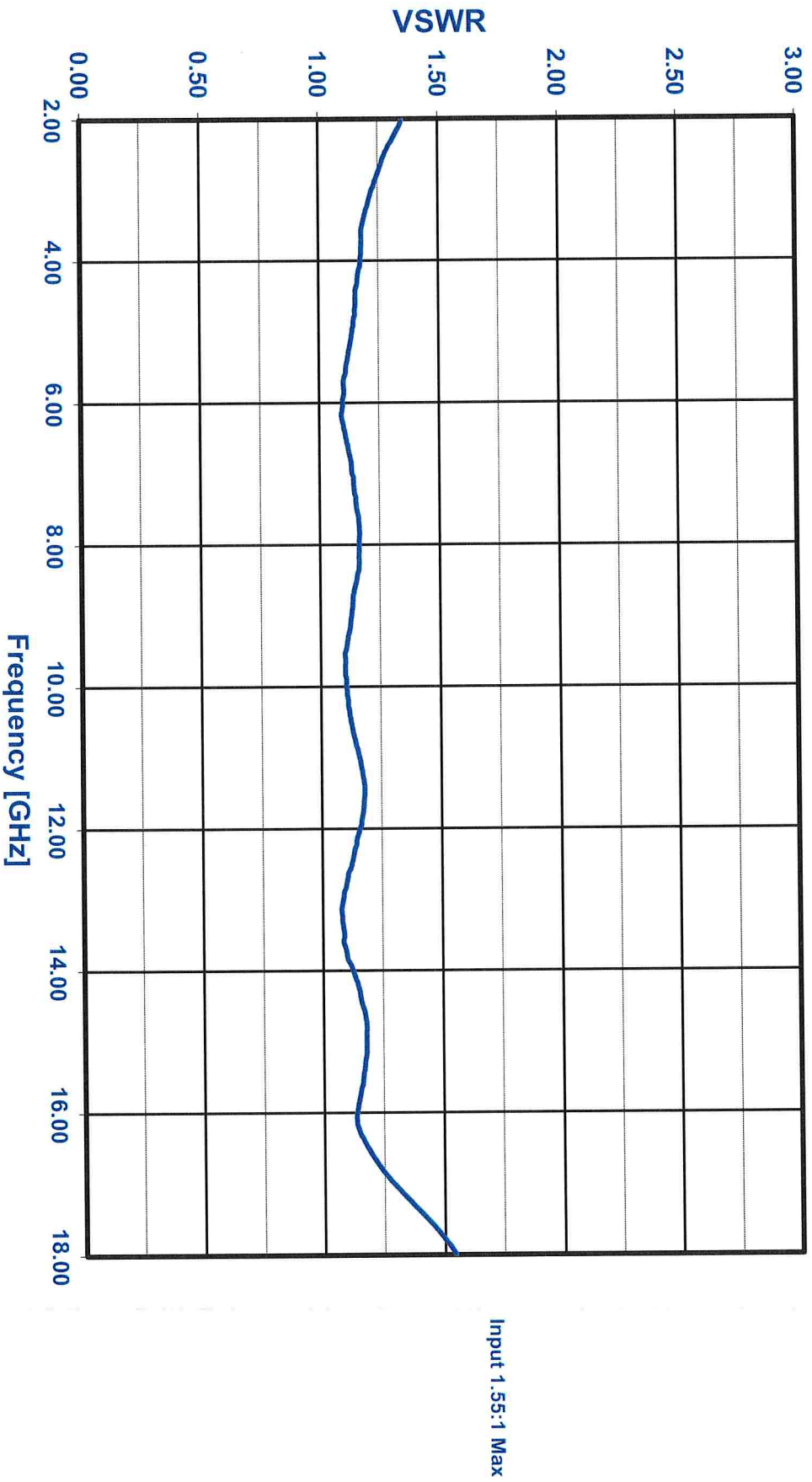
+85°C



Model Number: SDLVA-2G18G-CD-2-OPT218
Serial Number: PL42814

Temperature: +25C

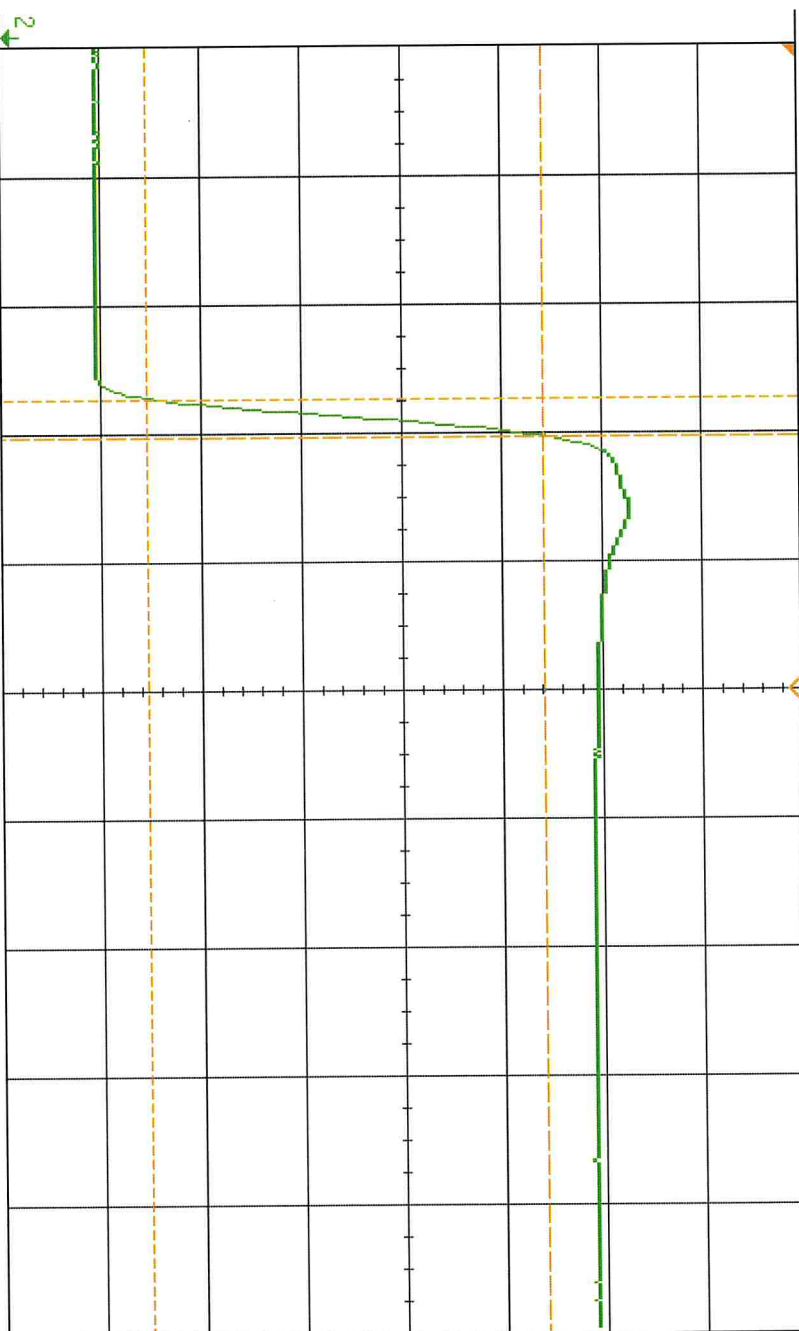
VSWR GRAPH



PL42814
 RISE TIME

DSO-X 3034A, MY62394003, Fri Nov 10 11:45:28 2023

1 2 300% / 3 4 4.000ns 20.00ns / Stop



Trigger Menu

Trigger Type
 Edge

Source
 4

Slope
 f



Acquisition

Averaging: 32

4.00GSa/s

Channels

DC 1.00:1

DC 1.00:1

DC 1.00:1

DC 1.00:1

Measurements

Fall(2): No edges

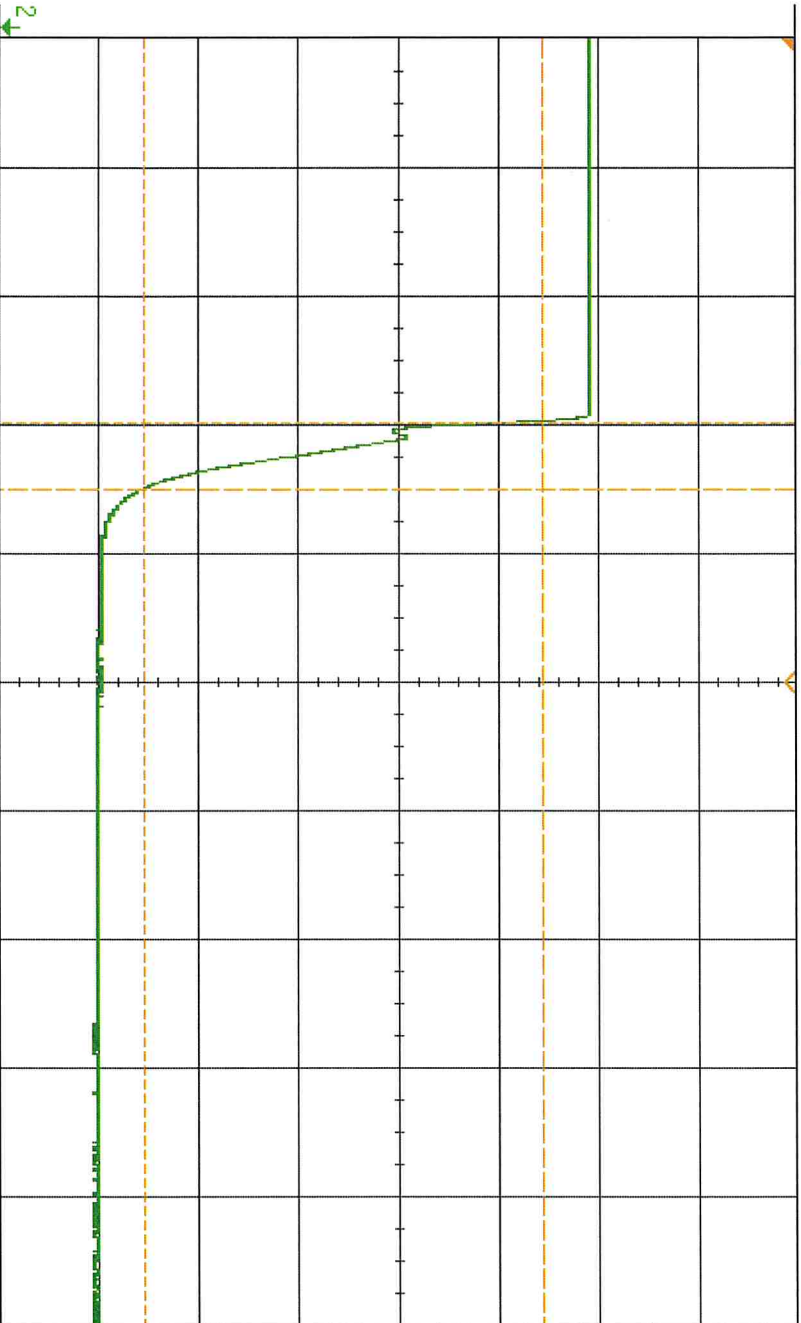
Rise(2): 6.0ns

f 4 1.78V

PL42814
RECOVERY

DSO-X 3034A, MY52394003, Fri Nov 10 11:47:06 2023

1 2 300%/ 3 4 4.050ns 100.0ns/ Auto f 4 1.78V



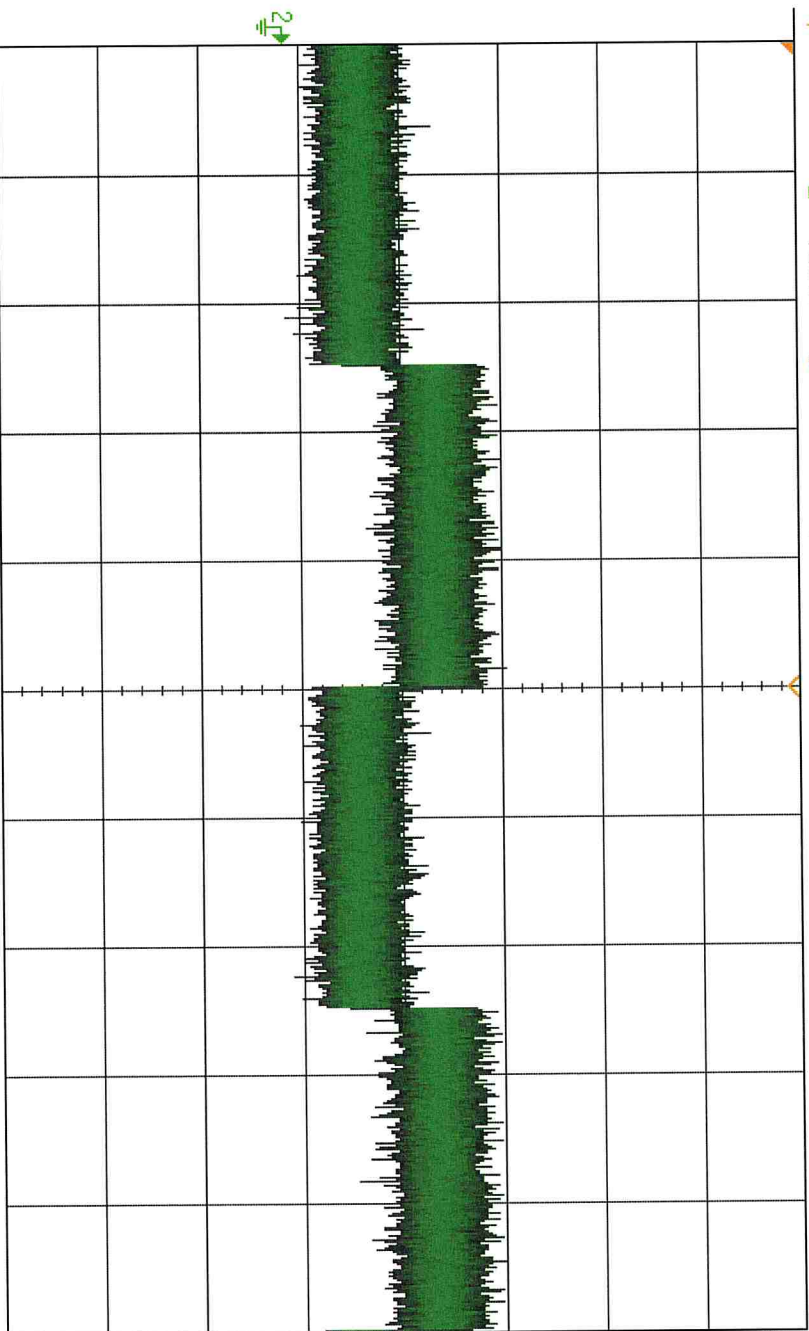
Measurement Menu

Source 2 Type: Fall Add Measurement Settings Clear Meas Statistics

Channels	DC	1.00:1
DC	DC	1.00:1
DC	DC	1.00:1
DC	DC	1.00:1
Measurements	Rise[2]:	No edges
	Fall[2]:	52.0ns

PL42814
TSS -7/

DSO-X 3034A, MW52394003, Fri Nov 10 11:49:39 2023
1 2 100% / 3 4 4.050ms 20.00%/ Auto F 4 1.78V



KEYSIGHT
TECHNOLOGIES

Acquisition Normal
4.00GSa/s

Channels	
DC	1.00:1
DC	1.00:1
DC	1.00:1
DC	1.00:1

Cursors Menu
Mode Off

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