

SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: _____
SO: _____
MODEL NO: GMDA-S4080-60
SERIAL NO: PL54051/2530

TESTED BY: EA Valdez
TEMPERATURE: +25°C
DATE: 7/22/2025
DRAWING NO: 27645260 REV: A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	4 GHz TO 8 GHz	4 GHz TO 8 GHz	PMI QA/QC
2	TSS	-60 dBm Min	-65 dBm	
3	INPUT POWER HANDLING	+23 dBm CW	PASS	
3	VIDEO LOG RANGE	-55 dBm to +5 dBm	PASS	
4	VIDEO LOG LINEARITY	±1.85 dB Over Temp	1.69 dBm	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	25.4 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	0.9 dB	
7	VIDEO RISE TIME	30ns Max	15.0 ns	
9	VIDEO FALL TIME	80ns Max	77.0 ns	
10	RECOVERY TIME	100ns Max	90 ns	
11	VIDEO OUTPUT LOAD IMPEDANCE	75 Ω	75Ω	
12	INPUT VSWR (50 Ω)	2.0:1 Max	1.41:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+369mA /-37mA	

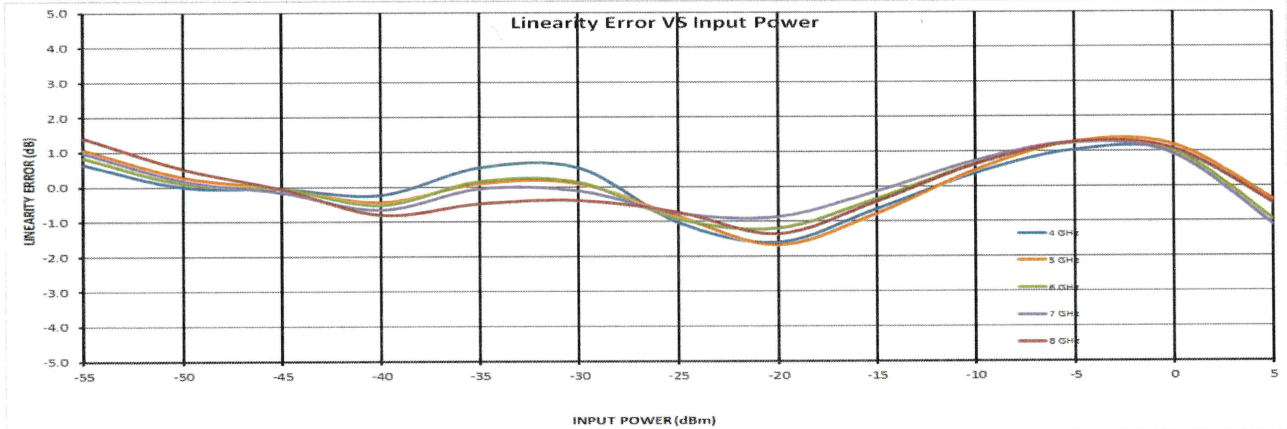
QA/QC Approval: 

Date: 7-22-25

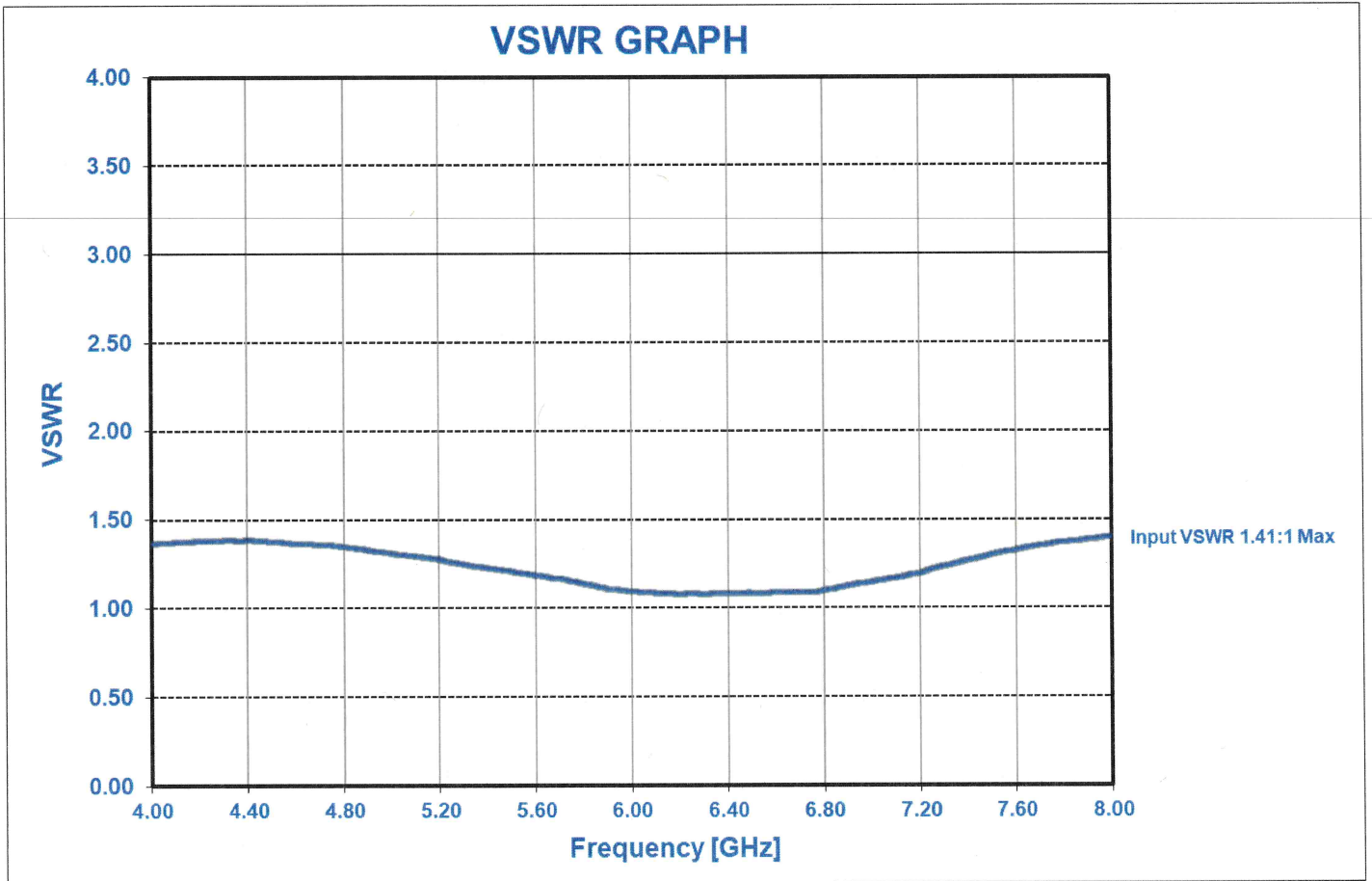


MODEL: GMDA-S4080-60
SERIAL NO: unit 5x
DATE: 07/10/2025
TESTED BY: EAV
TEST TEMP: +25°C

Frequency		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
4 GHz	INTERCEPT (mV)	194	303	427	548	693	818	904	1015	1164	1315	1457	1582	1670	Measured Value (mV)
	SLOPE (mV/dB)	16	0	-2	-6	14	13	-26	-40	-17	9	26	25	-12	Error (mV)
	LIN. ERR. (dB)	0.64	-0.01	-0.07	-0.24	0.55	0.53	-1.04	-1.61	-0.67	0.36	1.02	1.01	-0.48	LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	180	287	406	523	664	791	894	996	1150	1309	1457	1582	1669	Measured Value (mV)
	SLOPE (mV/dB)	27	7	-1	-11	2	2	-22	-47	-20	11	32	30	-10	Error (mV)
	LIN. ERR. (dB)	1.07	0.27	-0.05	-0.45	0.09	0.09	-0.86	-1.69	-0.80	0.45	1.27	1.18	-0.40	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	195	303	426	541	685	811	911	1031	1179	1331	1473	1594	1671	Measured Value (mV)
	SLOPE (mV/dB)	21	2	-2	-13	4	3	-24	-30	-9	16	31	25	-24	Error (mV)
	LIN. ERR. (dB)	0.83	0.09	-0.06	-0.52	0.15	0.12	-0.93	-1.20	-0.37	0.63	1.23	1.00	-0.97	LINEARITY ERROR (dB)
7 GHz	INTERCEPT (mV)	194	301	420	535	678	804	915	1040	1186	1336	1477	1596	1672	Measured Value (mV)
	SLOPE (mV/dB)	25	4	4	-17	2	3	-20	-23	4	18	32	23	29	Error (mV)
	LIN. ERR. (dB)	0.97	0.16	-0.17	-0.67	-0.07	-0.13	-0.78	-0.88	-0.16	0.71	1.24	0.90	-1.12	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	184	289	402	511	647	777	896	1008	1159	1314	1458	1581	1669	Measured Value (mV)
	SLOPE (mV/dB)	36	13	-2	-21	-12	-10	-19	-35	-12	16	32	27	-13	Error (mV)
	LIN. ERR. (dB)	1.40	0.51	-0.07	-0.81	-0.49	-0.40	-0.74	-1.36	-0.45	0.61	1.25	1.06	-0.50	LINEARITY ERROR (dB)
Avg. Slope: 25.4 mV/dB		0.3	0.3	0.5	0.7	0.9	0.6	0.4	0.5	0.7	0.5	0.4	0.3	0.1	Flatness dB: ±0.9 dB



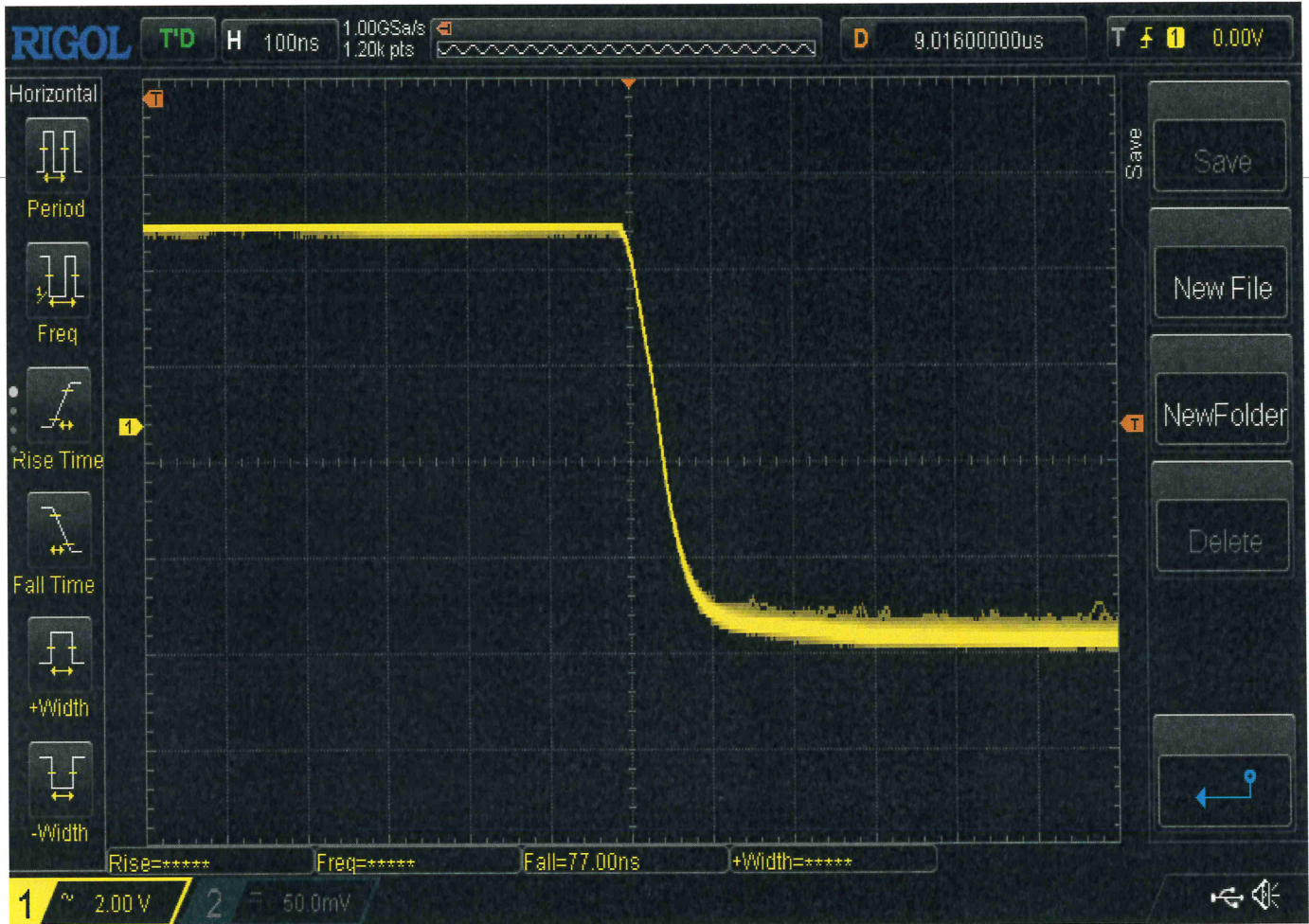
VSWR



Rise Time



Fall Time



TSS @ -65 dBm

