

SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: PL40228/2317
 SO: PL40228/2317
 MODEL NO: GMDA-S4080-60
 SERIAL NO: PL40228/2317

TESTED BY: M. Ayala
 TEMPERATURE: +25°C
 DATE: 4/27/2023
 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 QA3
2	TSS	-60 dBm Min	-67 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	1.1 dBm	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	25.5 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	0.9 dB	
7	VIDEO RISE TIME	30ns Max	7.8 ns	
9	VIDEO FALL TIME	80ns Max	75.0 ns	
10	RECOVERY TIME	100ns Max	95 ns	
11	VIDEO OUTPUT LOAD IMPEDANCE	75 Ω	75Ω	
12	INPUT VSWR (50 Ω)	2.0:1 Max	1.54:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+310mA /-50mA	

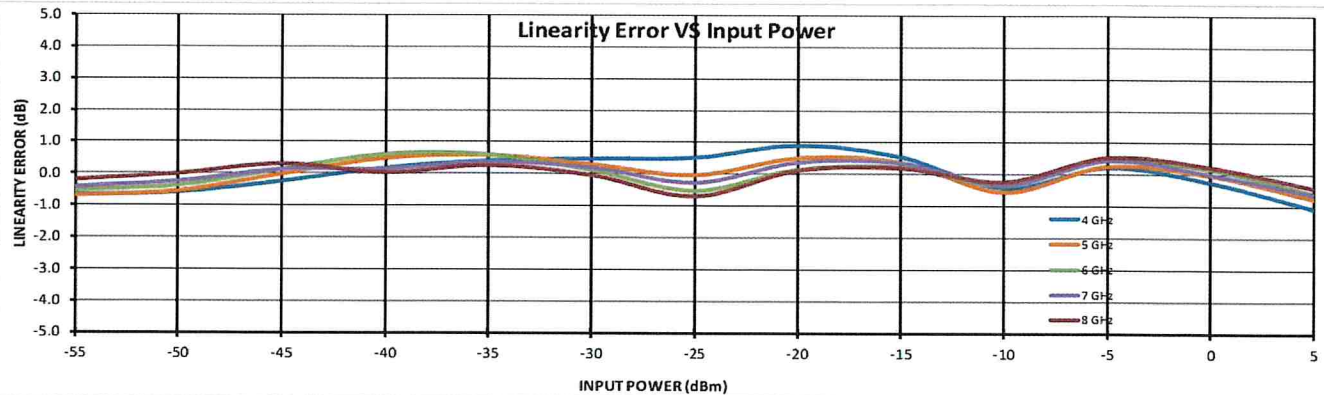
QA/QC Approval: *K. Hunter*

Date: 4-28-23

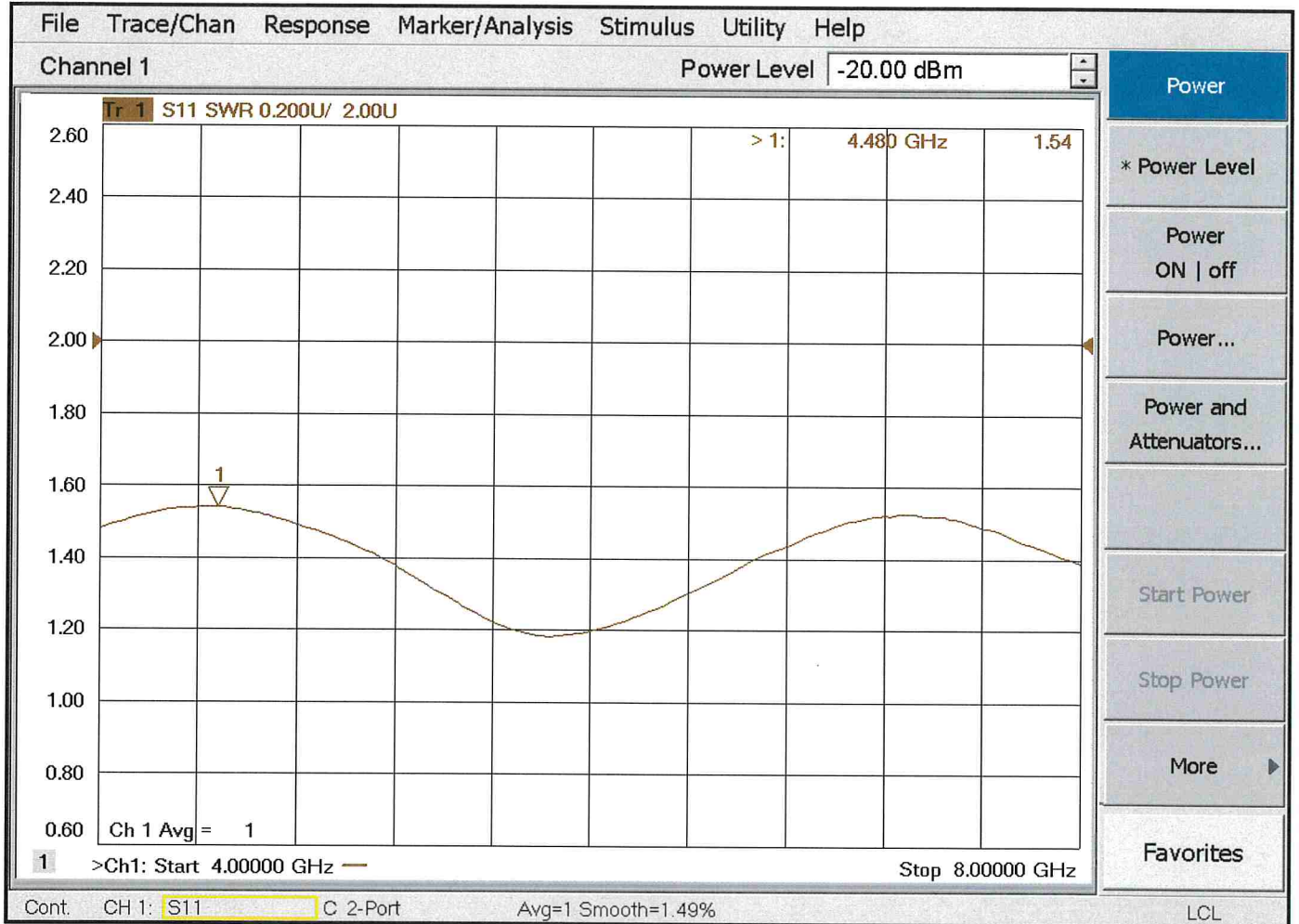
MODEL: GMDA-S4080-60
SERIAL NO: PL40228
DATE: 04-26-2023
TESTED BY: M. Ayala
TEST TEMP: +25°C



Frequency			-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
4 GHz	INTERCEPT (mV)	1666	229	360	498	638	773	904	1034	1173	1293	1397	1543	1660	1768	Measured Value (mV)
	SLOPE (mV/dB)	25.8	-17	-15	-6	5	10	12	13	23	14	-11	6	-6	-27	Error (mV)
	LIN. ERR. (dB)	1.1	-0.66	-0.59	-0.24	0.18	0.41	0.48	0.51	0.89	0.54	-0.43	0.22	-0.25	-1.06	LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	1659	251	381	521	660	789	908	1026	1166	1289	1392	1539	1658	1766	Measured Value (mV)
	SLOPE (mV/dB)	25.3	-17	-14	0	13	15	8	-1	13	10	-14	7	-1	-19	Error (mV)
	LIN. ERR. (dB)	0.75	-0.69	-0.54	0.00	0.50	0.60	0.31	-0.02	0.51	0.38	-0.54	0.27	-0.02	-0.75	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1660	259	389	528	666	792	906	1016	1159	1287	1399	1545	1664	1771	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-13	-10	3	15	15	3	-13	4	5	-9	11	4	-15	Error (mV)
	LIN. ERR. (dB)	0.6	-0.53	-0.38	0.13	0.60	0.59	0.11	-0.53	0.14	0.21	-0.35	0.44	0.16	-0.60	LINEARITY ERROR (dB)
7 GHz	INTERCEPT (mV)	1655	232	365	503	632	766	890	1006	1151	1279	1390	1538	1655	1767	Measured Value (mV)
	SLOPE (mV/dB)	25.7	-11	-7	3	4	9	5	-7	9	9	-8	11	0	-17	Error (mV)
	LIN. ERR. (dB)	0.64	-0.44	-0.26	0.12	0.14	0.36	0.19	-0.29	0.36	0.35	-0.33	0.44	-0.01	-0.64	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1647	234	367	503	624	758	878	989	1138	1268	1385	1533	1653	1764	Measured Value (mV)
	SLOPE (mV/dB)	25.6	-5	0	8	1	7	-1	-18	3	5	-6	14	6	-11	Error (mV)
	LIN. ERR. (dB)	0.71	-0.21	-0.01	0.30	0.03	0.26	-0.05	-0.71	0.11	0.19	-0.24	0.54	0.23	-0.43	LINEARITY ERROR (dB)
Avg. Slope: 25.5 mV/dB			0.6	0.6	0.6	0.8	0.7	0.6	0.9	0.7	0.5	0.3	0.2	0.2	0.1	Flatness dB: ±0.9 dB

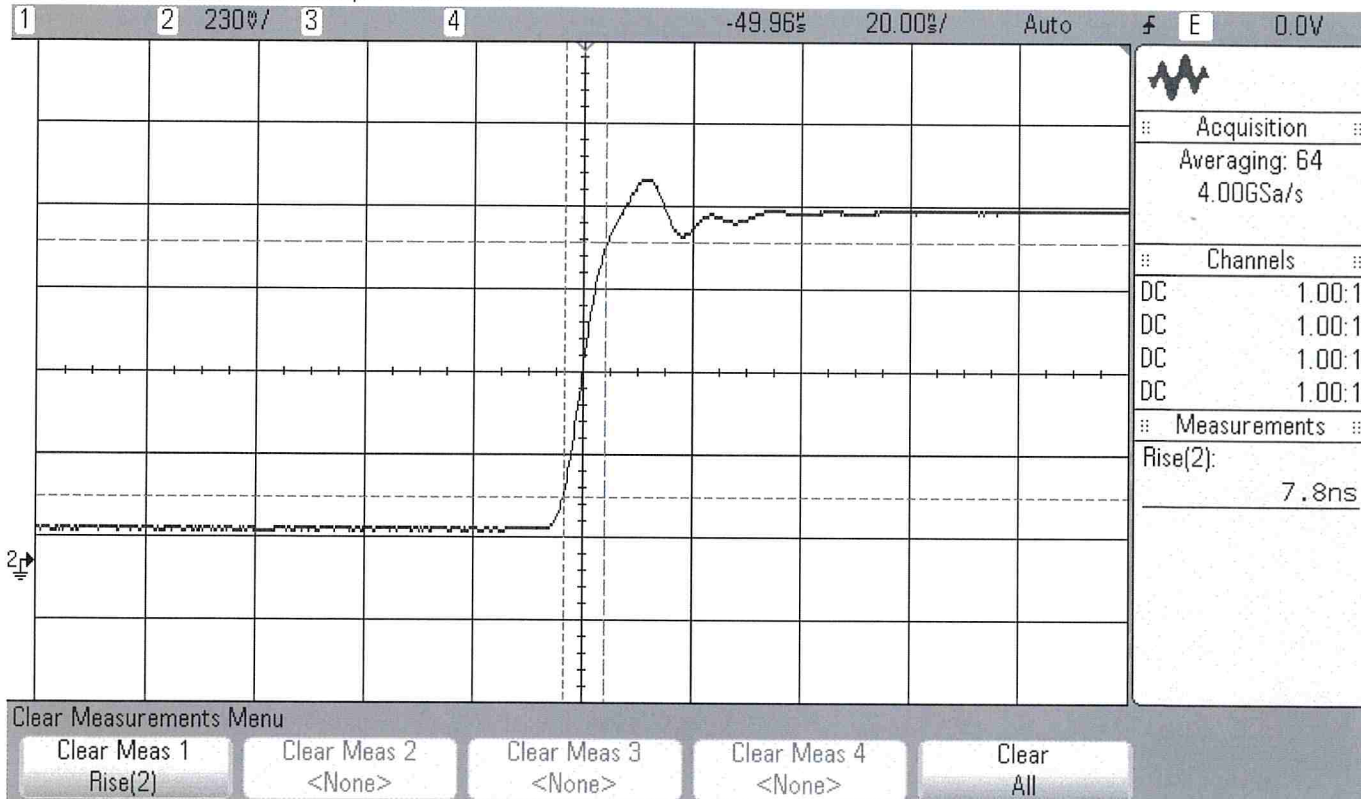


VSWR



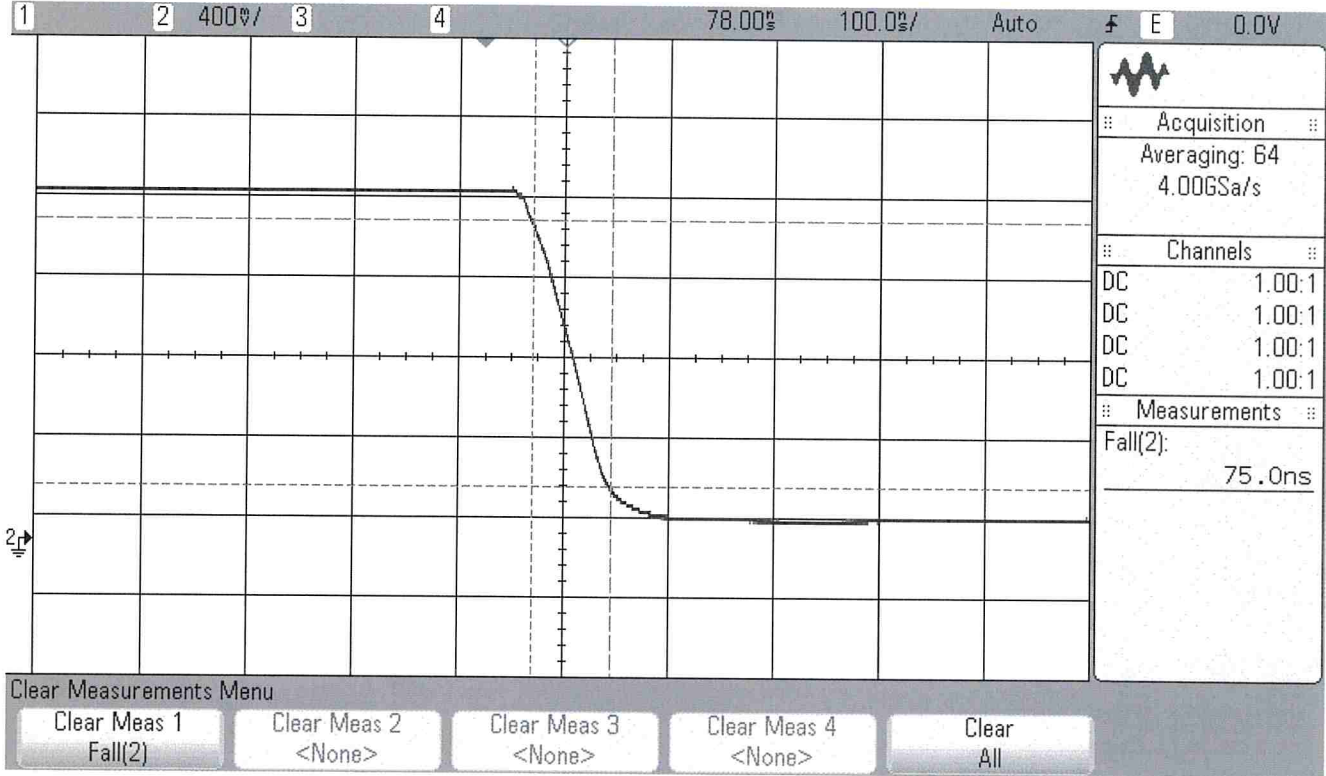
Rise Time

MSO-X 3054A, MY53400180: Wed Apr 26 10:44:39 2023



Fall Time

MSO-X 3054A, MY53400180: Wed Apr 26 10:38:36 2023



TSS @ -67 dBm

MSO-X 3054A, MY53400180: Wed Apr 26 11:38:08 2023

