



**SUMMARY TEST DATA
ON
SDLVA-2020-50 OPTION 26, INDRA**

PL33385/2133

Customer: _____	Tested By: <u>J. Boze</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>SDLVA-2020-50 OPTION 26, INDRA</u>	Date: <u>08/18/2021</u>
Serial No: <u>PL33385/2133</u>	Drawing No: <u>27641280</u> Rev: <u>A1</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC	
1	Frequency Range:	2.4 GHz to 5.4 GHz	2.4 GHz to 5.4 GHz	PMI QA3	
2	Dynamic Range:	-45 dBm to +5 dBm	-45 dBm to +5 dBm See Plot	↓	
3	VSWR:	3.0:1 (@ -20 dBm, 2.4-5.4 GHz)	1.75:1 See Plot		
4	RF Gain:	60 dB Min	67 dB See Plot		
5	Frequency Flatness:	±2.0 dB Typ (2.4 GHz to 5.4 GHz)	±0.6 dB See Plot		
6	Log Linearity:	±1.75 dB Max (-45 dBm to +5 dBm)	±1.15 dBm See Plot		
7	Log Slope:	20 mV/dB (±10% Tolerance)	20.3 mV/dB See Plot		
8	Log Temperature Stability:	±1.75dB (0°C to 60°C)	±1.18 dB See Plot		
9	Rise Time (10% to 90%):	30 ns Max, 20 ns Typ	19.9 ns See Plot		
10	Recover Time:	250 ns Max, 150 ns Typ (-45 dBm to +5 dBm)	241 ns See Plot		
11	Limited RF Power Output:	+14 dBm Typ, +10 dBm Min	+15.2 dBm See Plot		
12	Propagation Delay: (10% of RF Input Signal to 90% Output Video)	35 ns Typ, 45 ns Max	Pass		
13	Output Video Load:	100 Ω ±10% or as desired	Pass		
14	DC Power: (No Load)	+15 V @ 600 mA Max -15 V @ 200 mA Max	400 mA 90 mA		PMI QA3

QA/QC Approval: A Zimmerman Date: 8/24/21



SUMMARY TEST DATA ON SDLVA-2020-50 OPTION 26, INDRA

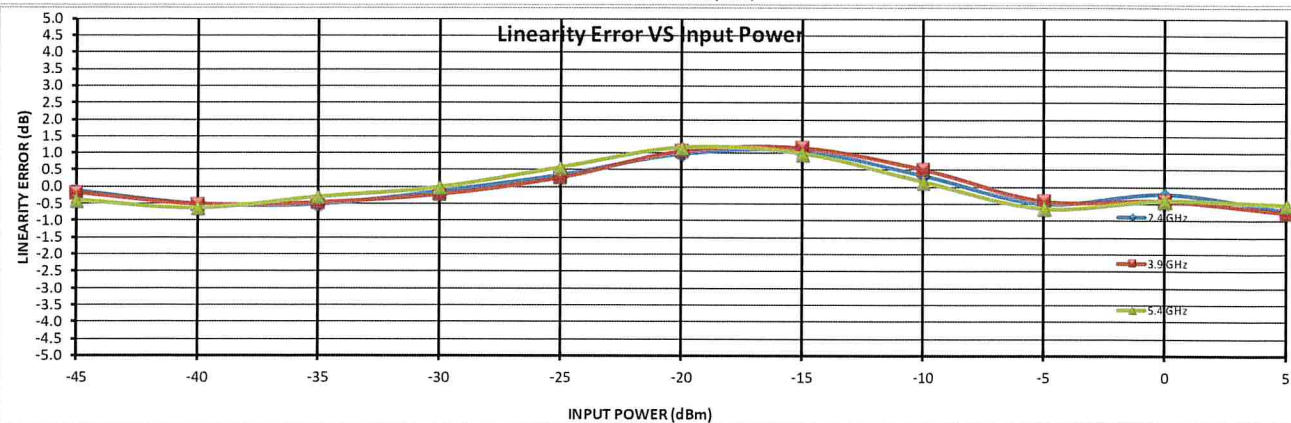
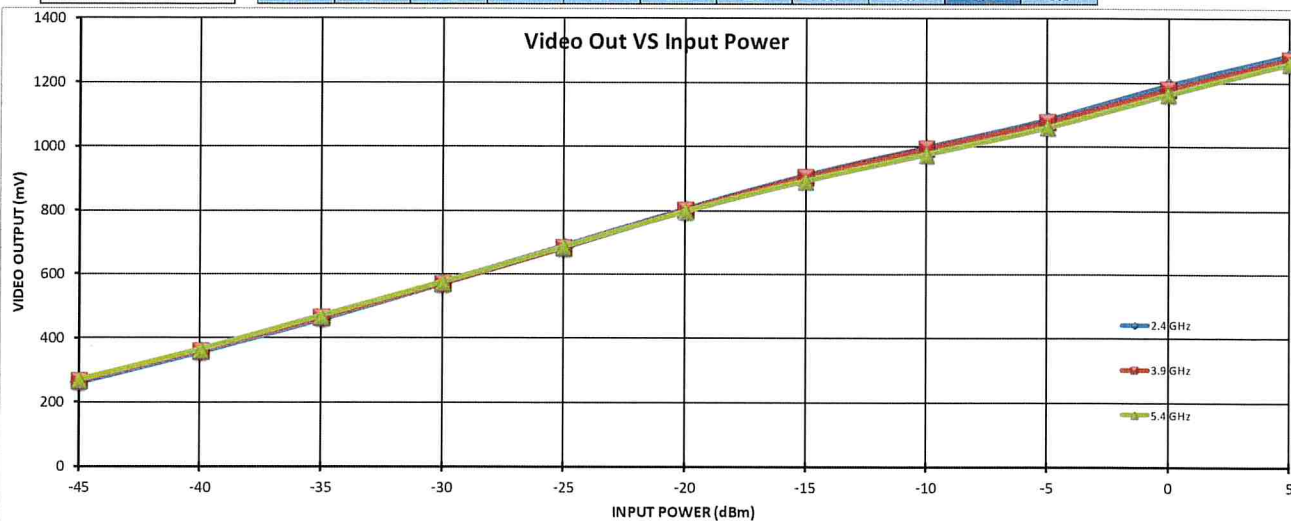
PL33385/2133

MODEL: SDLVA-2020-50-OPTIONS 26, INDRA
 SERIAL NO: PL33385
 DATE: 08/18/21
 TESTED BY: J. Boze
 Test Temp: +25°C

Log Transfer over Frequency (+25°C)



Frequency		-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2.4 GHz	INTERCEPT (mV)	264	359	462	573	686	802	907	995	1081	1190	1283	Measured Value (mV)
	SLOPE (mV/dB)	-3	-11	-11	-3	7	20	22	7	-10	-4	-15	Error (mV)
		-0.12	-0.51	-0.52	-0.14	0.34	0.97	1.06	0.33	-0.50	-0.21	-0.70	1.06
3.9 GHz	INTERCEPT (mV)	266	361	464	571	683	801	905	994	1077	1179	1274	Measured Value (mV)
	SLOPE (mV/dB)	-4	-11	-10	-5	5	21	23	10	-9	-9	-16	Error (mV)
		-0.18	-0.52	-0.47	-0.22	0.27	1.05	1.15	0.51	-0.42	-0.42	-0.76	1.15
5.4 GHz	INTERCEPT (mV)	269	364	470	575	686	797	893	976	1060	1164	1261	Measured Value (mV)
	SLOPE (mV/dB)	-8	-12	-6	0	11	23	19	3	-12	-8	-10	Error (mV)
		-0.40	-0.62	-0.29	-0.01	0.57	1.15	0.98	0.15	-0.62	-0.40	-0.52	1.15
Avg. Slope: 20.3 mV/dB		0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.5	0.5	0.6	0.5	
Flatness dB: ±0.6 dB													





SUMMARY TEST DATA ON SDLVA-2020-50 OPTION 26, INDRA

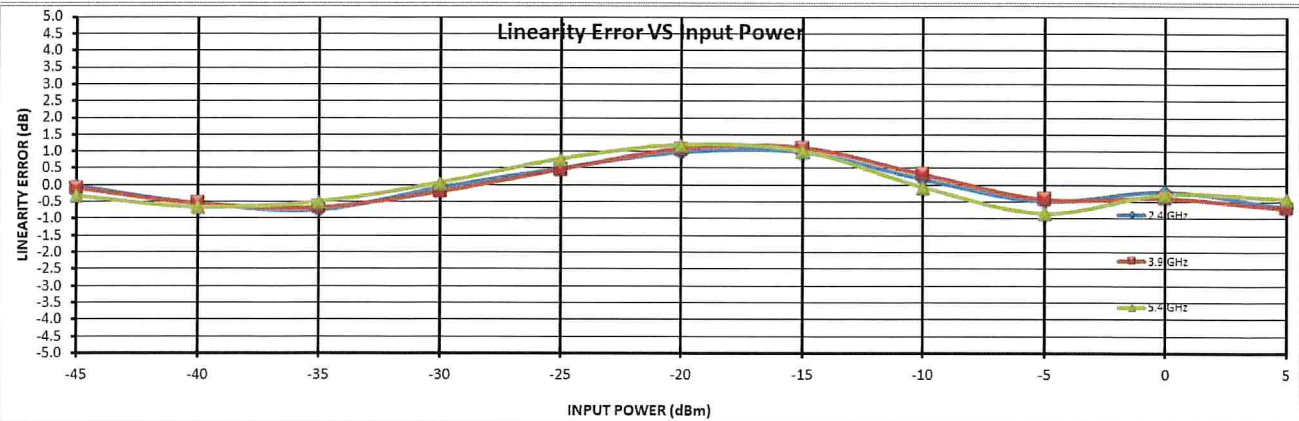
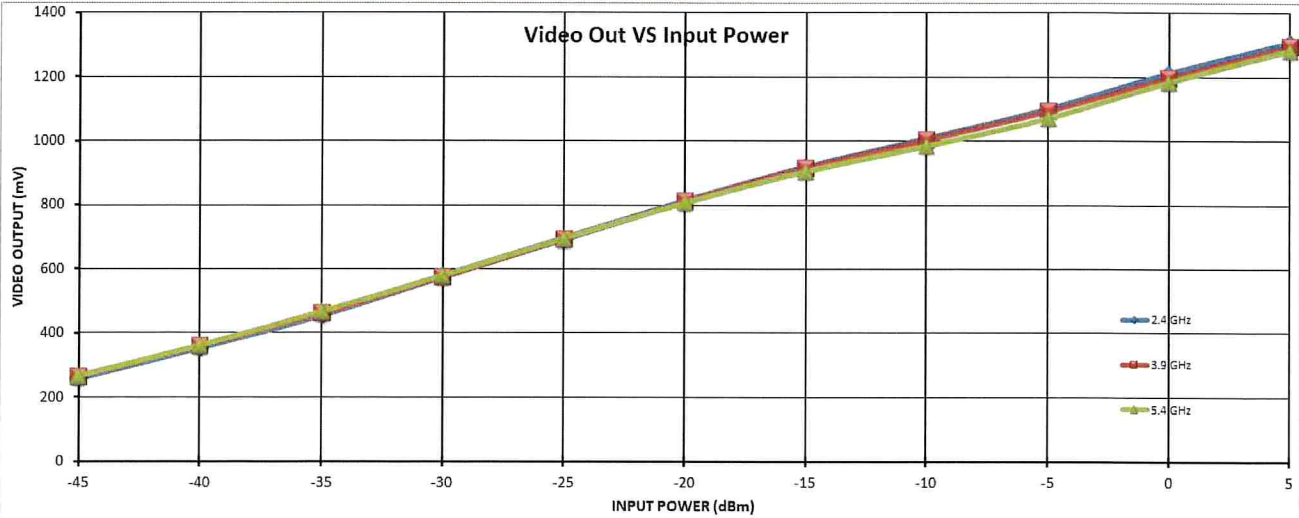
PL33385/2133

MODEL: SDLVA-2020-50-OPTIONS 26, INDRA
SERIAL NO: PL33385
DATE: 08/18/21
TESTED BY: J. Boze
Test Temp: 0°C

Log Transfer over Frequency (0°C)



Frequency		-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2.4 GHz	INTERCEPT (mV)	259	354	456	576	694	810	916	1005	1097	1209	1305	Measured Value (mV)
	SLOPE (mV/dB)	-1	-11	-15	-1	11	21	21	4	-10	-4	-14	Error (mV)
		-0.02	-0.54	-0.73	-0.06	0.51	0.98	0.99	0.19	-0.47	-0.19	-0.65	0.99
3.9 GHz	INTERCEPT (mV)	264	359	461	575	693	810	915	1003	1092	1197	1295	Measured Value (mV)
	SLOPE (mV/dB)	-2	-11	-14	-4	10	22	23	7	-9	-8	-14	Error (mV)
		-0.09	-0.54	-0.65	-0.19	0.47	1.07	1.10	0.32	-0.42	-0.38	-0.69	1.10
5.4 GHz	INTERCEPT (mV)	268	363	468	581	697	807	905	985	1071	1184	1283	Measured Value (mV)
	SLOPE (mV/dB)	-7	-13	-10	1	16	24	20	-1	-17	-6	-8	Error (mV)
		-0.32	-0.65	-0.49	0.07	0.78	1.18	1.00	-0.06	-0.83	-0.28	-0.41	1.18
Avg. Slope: 20.8 mV/dB Flatness dB: ±0.6 dB		0.2	0.2	0.3	0.1	0.1	0.1	0.3	0.5	0.6	0.6	0.5	





SUMMARY TEST DATA ON SDLVA-2020-50 OPTION 26, INDRA

PL33385/2133

MODEL: SDLVA-2020-50-OPTIONS 26, INDRA
SERIAL NO: PL33385
DATE: 08/18/21
TESTED BY: J. Boze
Test Temp: +60°C

Log Transfer over Frequency (+60°C)



Frequency

-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
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RF Input Power (dBm)

2.4 GHz	INTERCEPT (mV)	1174
	SLOPE (mV/dB)	20

268	363	465	573	677	789	893	982	1070	1168	1258
-4	-10	-8	0	4	16	20	8	-4	-6	-16
-0.22	-0.48	-0.39	0.00	0.19	0.79	0.98	0.42	-0.19	-0.30	-0.81

Measured Value (mV)
Error (mV)
0.98

3.9 GHz	INTERCEPT (mV)	1169
	SLOPE (mV/dB)	19.9

270	363	465	569	674	791	893	983	1068	1160	1249
-4	-11	-8	-3	2	20	22	13	-2	-9	-20
-0.21	-0.53	-0.40	-0.17	0.10	0.99	1.12	0.64	-0.09	-0.46	-0.99

Measured Value (mV)
Error (mV)
1.12

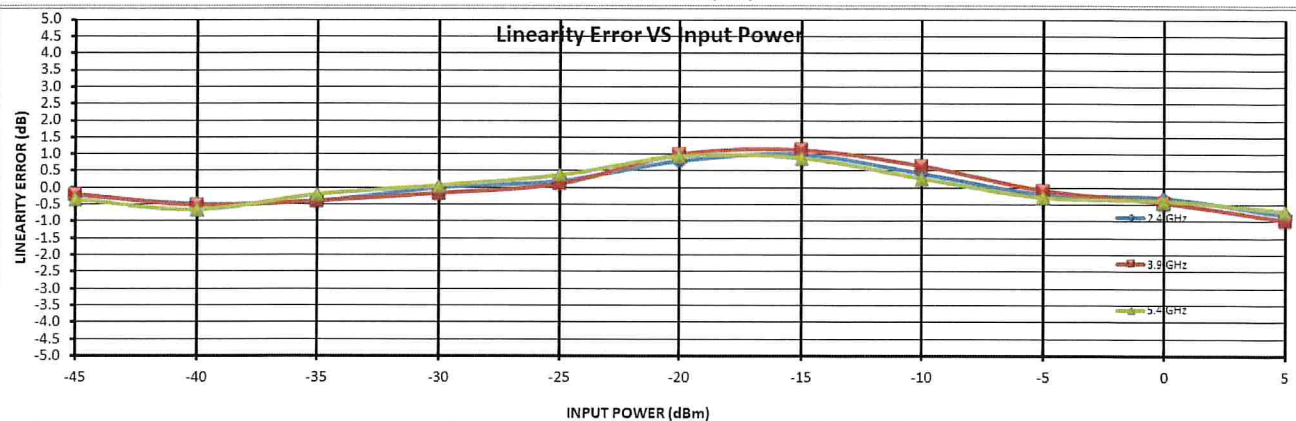
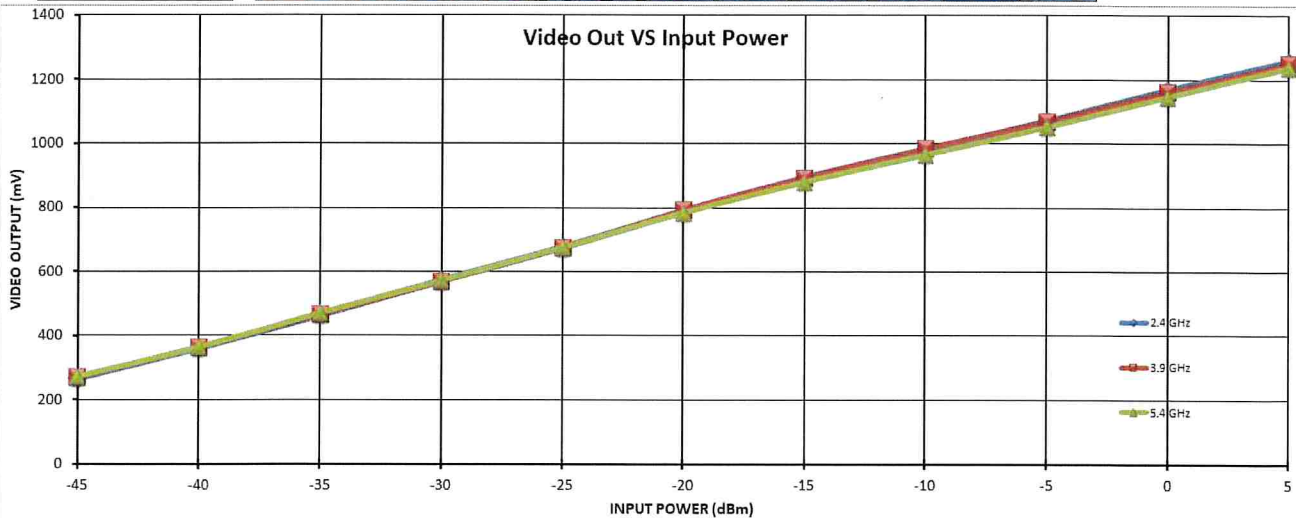
5.4 GHz	INTERCEPT (mV)	1154
	SLOPE (mV/dB)	19.4

274	365	471	573	676	784	880	965	1051	1146	1237
-7	-13	-4	1	7	18	17	5	-6	-8	-14
-0.35	-0.66	-0.19	0.07	0.38	0.95	0.90	0.28	-0.29	-0.39	-0.70

Measured Value (mV)
Error (mV)
0.95

Avg. Slope: 19.8 mV/dB
Flatness dB: ±0.6 dB

0.2	0.1	0.2	0.1	0.1	0.2	0.3	0.5	0.5	0.6	0.5
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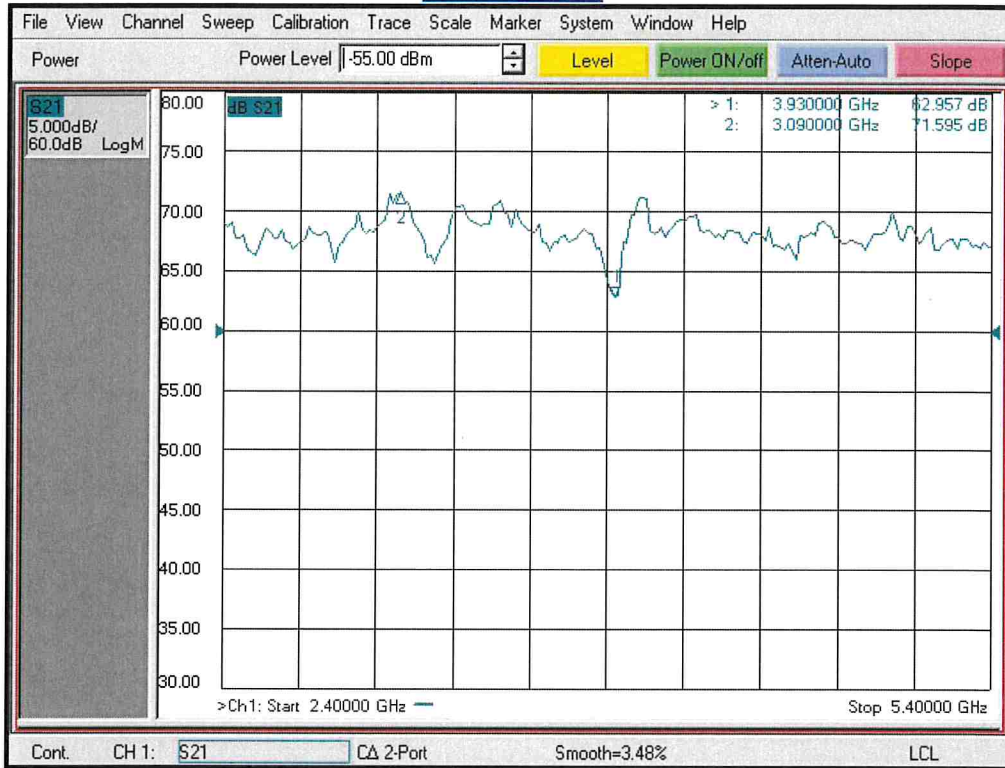




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RF Gain Plot



VSWR Plot

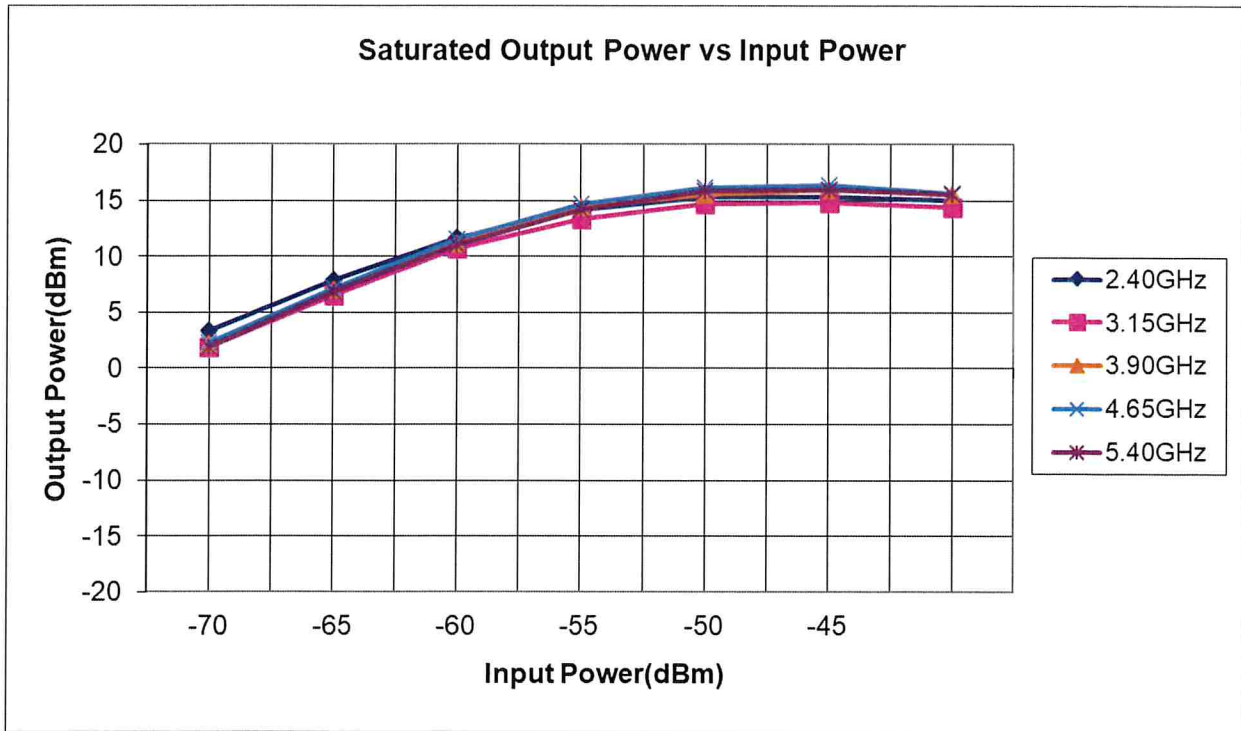




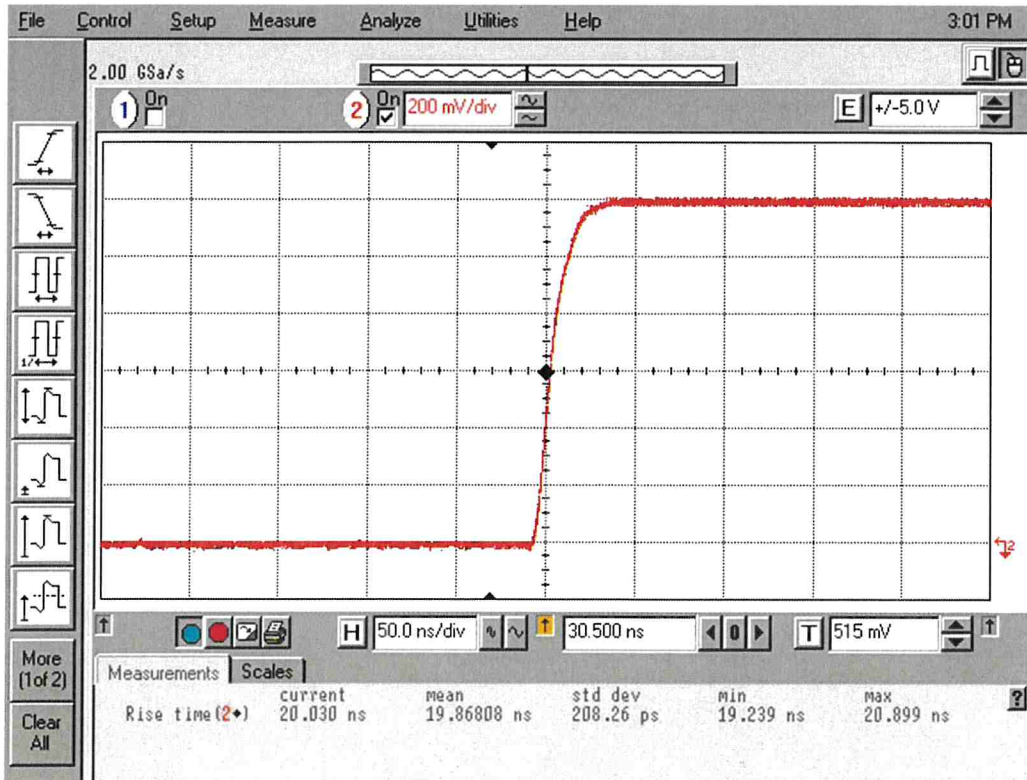
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PSAT Plot



Rise Time Plot





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