

ACCEPTANCE TEST DATA



DATE	JOB NUMBER	SERIAL NUMBER	STOCK NUMBER	MODEL NUMBER	FREQUENCY	OUTPUT POWER	GAIN	CUSTOMER	PURCHASE ORDER
October 1, 2019				2226	900 to 1600MHz	2KW CW			

ELECTRICAL SPECIFICATION @ 208 VAC-3Phase, 25°C AMBIENT, 50Ω SYSTEM, MGC mode unless specified otherwise

PARAMETER	SPECIFICATION						TEST FREQUENCY (MHz)											PASS/FAIL
	SYMBOL	MIN	TYP	MAX	UNIT	NOTE	900	925	950	975	1000	1100	1200	1300	1400	1500	1600	
OPERATING FREQUENCY	BW	900		1600	MHz	Plots 1-3	x	x	x	x	x	x	x	x	x	x	x	
OUTPUT POWER	P _{SAT}	63			dBm	Record	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	PASS
OUTPUT POWER @ 1dB G.C.P. (80% AM Method)	P _{1dB}	61.8			dBm	Record	63.1	>63	>63	>63	>63	>63	>63	>63	>63	>63	>63	PASS
POWER GAIN @ RATED OUTPUT	G _p	63			dB	Record	69.3	68.9	67.7	66.7	67.2	66.6	67.0	68.0	68.3	68.5	69.1	PASS
INPUT POWER @ RATED OUTPUT	P _{IN}	-3		3	dBm	Record	-6.3	-5.9	-4.7	-3.7	-4.2	-3.6	-4.0	-5.0	-5.3	-5.5	-6.1	PASS
SMALL SIGNAL GAIN FLATNESS, P _{IN} = -30dBm	ΔG _{SS}			±1.5	dB	Plot 1	x	x	x	x	x	x	x	x	x	x	x	PASS
LEVELED ALC FLATNESS @ RATED OUTPUT	ΔALC			±0.5	dB	Plot 2	x	x	x	x	x	x	x	x	x	x	x	PASS
GAIN ADJUSTMENT RANGE @ P _{IN} = -30dBm	VVA	15	20		dB	Plot 3	x	x	x	x	x	x	x	x	x	x	x	PASS
GAIN @ SHUTDOWN CONDITION, P _{IN} = 0dBm	G _{SD}			-35	dB	Plot 4	x	x	x	x	x	x	x	x	x	x	x	PASS
INPUT RETURN LOSS	S ₁₁			-10	dB	Plot 1	x	x	x	x	x	x	x	x	x	x	x	PASS
THIRD ORDER INTERMODULATION DISTORTION 2-TONE, 57dBm/TONE, 1.0 MHz SPACING	IM3		-25		dBc	Record	-29.0	-27.0	-26.0	-25.0	-26.0	-29.0	-27.0	-27.0	-36.0	-24.0	-28.0	PASS
HARMONICS @ 1995 Watts	2nd			-14	dBc	Record	-14.5	-15.0	-19.0	-25.0	-24.0	-27.0	-39.0	-40.0	-47.0	-35.0	-33.0	PASS
	3rd			-15	dBc	Record	-20.0	-21.0	-22.0	-21.0	-23.0	-25.0	-29.0	-55.0	-43.0	-54.0	-41.0	PASS
SPURIOUS SIGNAL	SPUR			-70	dBc	Record	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	PASS
SWITCHING TIME, 1kHz TTL, @ 1995 Watts	T _{ON_90%}			1	μS	Plot 9	0.7											PASS
	T _{OFF_10%}			1		Plot 10	1.0											PASS
PULSE PERFORMANCE @ CENTER FREQUENCY, P _{OUT} = 2000W _{PEAK} , PULSE PERIOD = 150μS (67% DUTY CYCLE)	T _{RISE}			250	nS	Plots 5 & 6	30.0					See Plots						PASS
	T _{FALL}			250			67.0											
NOISE FIGURE @ MAX GAIN	NF		20	25	dBc	Plot 7	x	x	x	x	x	x	x	x	x	x	x	PASS
BLANKING NOISE FLOOR, DURING BLANKING			-164		dBm/Hz	Plot 8	x	x	x	x	x	x	x	x	x	x	x	PASS
OPERATING VOLTAGE	VAC	180	208	260	Volt	Verify	v											PASS
POWER CONSUMPTION @ SHUTDOWN	P _{SD}			800	VA	Calculated	570											PASS
QUIESCENT POWER CONSUMPTION	P _{DQ}			1800	VA	Calculated	1450											PASS
POWER CONSUMPTION @ 220VAC	P _D			6000	VA	Record	5700	5500	5400	5100	4900	5800	5600	5400	5300	5000	4600	PASS
EFFICIENCY	η	33.3			%	Calculated	35.0	36.3	36.9	39.1	40.7	34.4	35.6	36.9	37.6	39.9	43.4	PASS
INPUT OVERDRIVE - SHUTDOWN	T _{IOD}			10	dBm	Record	10.0					10.0					10.0	PASS
VSWR - MUTE	VSWR	3:1			-	Verify	v	v	v	v	v	v	v	v	v	v	v	PASS
THERMAL OVERLOAD - SHUTDOWN	T _{OD}			95	°C	Verify	v											PASS

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POWER REPORTING ACCURACY

FORWARD POWER, 50 OHM LOAD (ALC MODE)

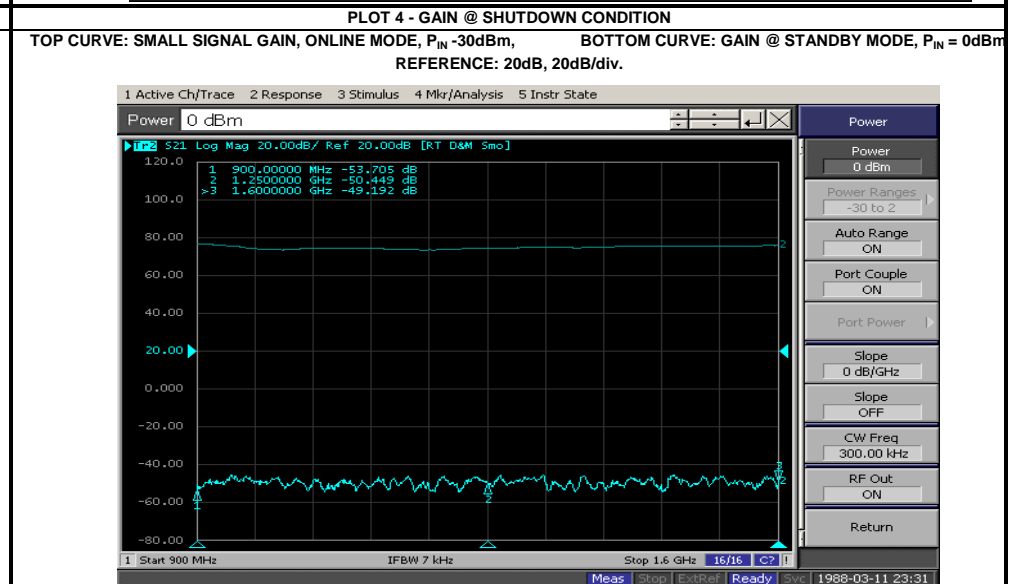
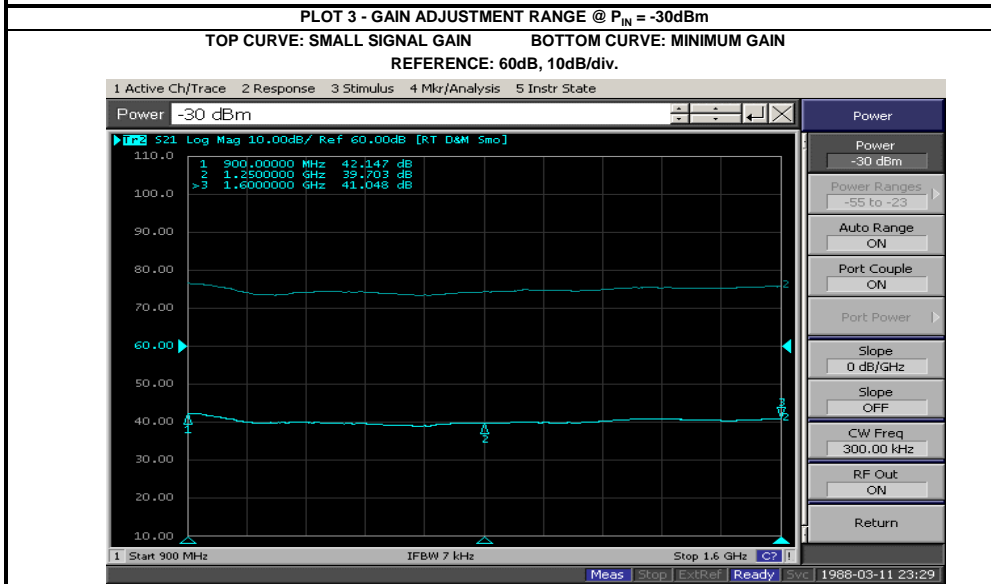
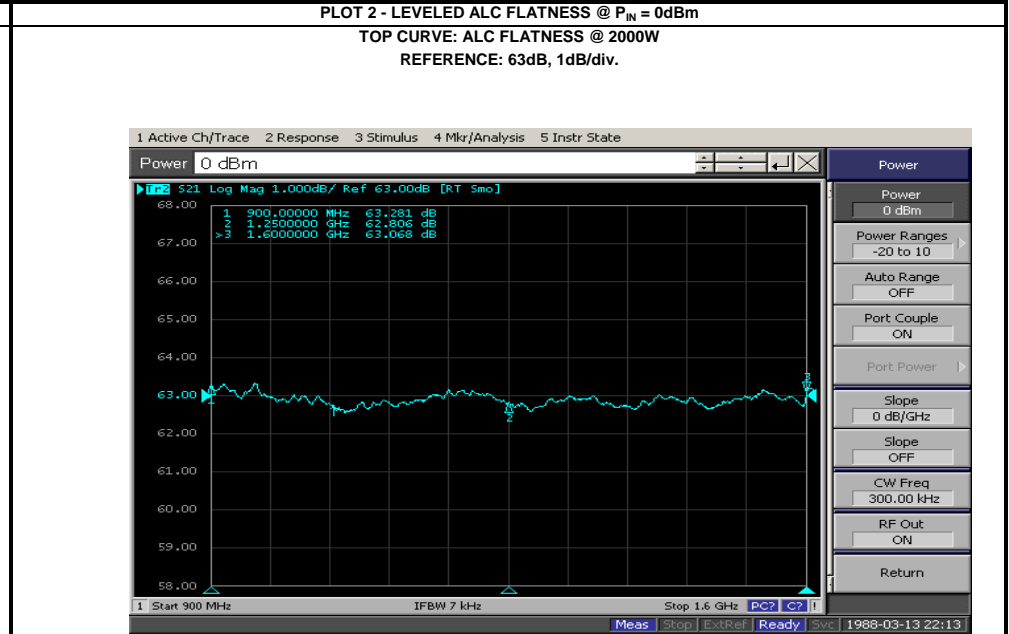
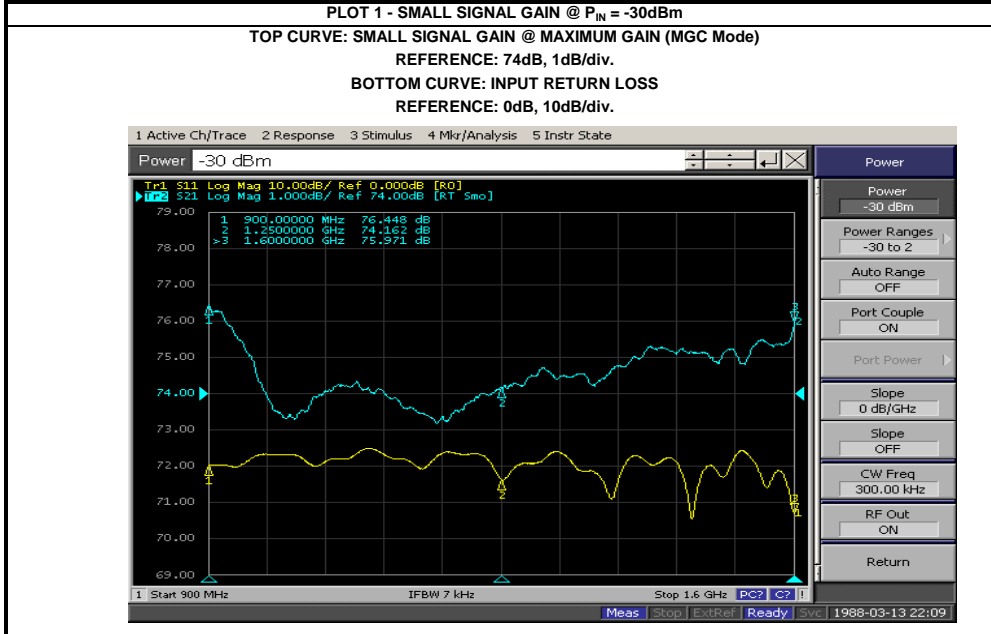
FREQUENCY (MHz)	MEASUREMENT METHOD	ALC SETTING VALUE (dBm) @ INPUT POWER = 0dBm				LIMIT	P/F
		63.0	60.0	57.0	54.0		
900	EXTERNAL TEST EQUIPMENT	63.2	60.3	57.4	54.6	±0.5dB of ALC SETTING VALUE	P
	ETHERNET REPORTING	63.0	60.0	57.0	54.0		P
1000	EXTERNAL TEST EQUIPMENT	63.0	60.0	57.1	54.3		P
	ETHERNET REPORTING	63.0	60.0	57.0	54.0		P
1300	EXTERNAL TEST EQUIPMENT	63.0	60.0	57.1	54.4		P
	ETHERNET REPORTING	63.0	60.0	57.0	54.0		P
1600	EXTERNAL TEST EQUIPMENT	63.1	60.1	57.2	54.4		P
	ETHERNET REPORTING	63	60	57	54		P

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PERFORMANCE PLOTS

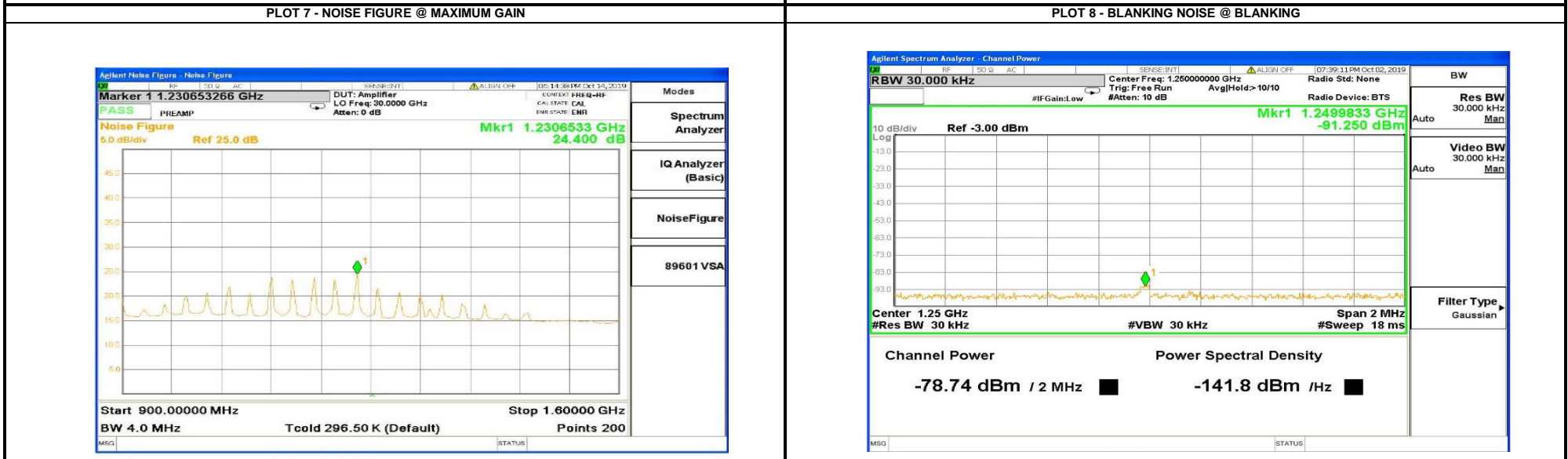
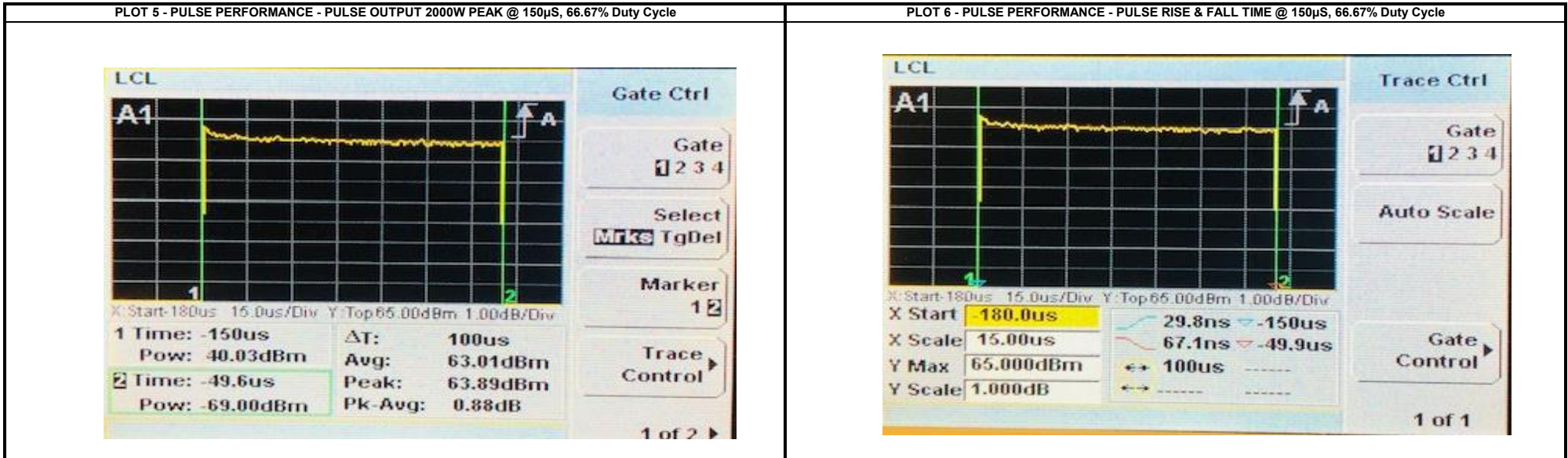


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