

UUT Model number is HP8657B Serial number is 8657
 Date is 14 Oct 2003 Time is 09:33:58
 BANC LEGION LE MANS

** AM ACCURACY=====

UUT MODULATION SOURCE (INT;EXT)=INT

CTR_FREQ (MHz)	AMPL (dBm)	MOD_FR (kHz)	DEPTH (%)	MEASURED	LOWER LIM	UPPER LIM	COND
				(% AM)	(% AM)	(% AM)	P/F
				PK+ DET			
100	4	1	10	10.07	7.40	12.60	
100	4	1	30	29.87	26.20	33.80	
100	4	1	70	69.70	63.80	76.20	
100	4	1	90	89.20	82.60	97.40	
240	4	1	10	9.91	7.40	12.60	
240	4	1	30	29.73	26.20	33.80	
240	4	1	70	69.80	63.80	76.20	
240	4	1	90	89.30	82.60	97.40	
400	4	1	10	9.98	7.40	12.60	
400	4	1	30	29.65	26.20	33.80	
400	4	1	70	69.80	63.80	76.20	
400	4	1	90	89.10	82.60	97.40	
1030	4	1	10	9.87	7.40	12.60	
1030	4	1	30	29.46	26.20	33.80	
1030	4	1	70	68.90	63.80	76.20	
1030	4	1	90	88.40	82.60	97.40	
1300	4	1	10	9.60	7.40	12.60	
1300	4	1	30	28.69	26.20	33.80	
1300	4	1	70	67.70	63.80	76.20	
1300	4	1	90	87.20	82.60	97.40	

** AM DISTORTION=====

UUT MODULATION SOURCE (INT;EXT)=INT

CTR_FREQ (MHz)	AMPL (dBm)	MOD_FR (kHz)	DEPTH (%)	MEASURED	LOWER LIM	UPPER LIM	COND
				(%)	(%)	(%)	P/F
100	4	1	30	.22		1.50	
100	4	1	70	.77		3.00	
100	4	1	90	.67		4.00	
240	4	1	30	.38		1.50	
240	4	1	70	.88		3.00	
240	4	1	90	.78		4.00	
400	4	1	30	.46		1.50	
400	4	1	70	1.02		3.00	
400	4	1	90	.92		4.00	
1030	4	1	30	.10		4.00	
1030	4	1	70	.10		4.00	
1030	4	1	90	.13		7.00	
1300	4	1	30	1.20		4.00	
1300	4	1	70	1.52		4.00	
1300	4	1	90	1.32		7.00	

** AM FLATNESS=====

UUT MODULATION SOURCE (INT;EXT)=EXT

CTR_FREQ (MHz)	AMPL (dBm)	MOD_FR (kHz)	DEPTH (%)	MEASURED	LOWER LIM	UPPER LIM	COND
				(dB)	(dB)	(dB)	P/F
129	4	.02	30	-.08			

** AM FLATNESS continued. . .=====

UUT MODULATION SOURCE (INT;EXT)=EXT

CTR_FREQ (MHz)	AMPL (dBm)	MOD_FR (kHz)	DEPTH (%)	MEASURED (dB)	LOWER LIM (dB)	UPPER LIM (dB)	COND P/F
129	4	.1	30	.13			
129	4	.5	30	.07			
129	4	5	30	-.09			
129	4	10	30	-.06			
129	4	20	30	-.09			
129	4	30	30	-.14			
129	4	40	30	-.25			
MIN @100 MHz FROM .02 kHz TO 40 kHz				-.25	-1.00		
129	-3	.02	30	-.15			
129	-3	.1	30	.17			
129	-3	.5	30	.09			
129	-3	5	30	.12			
129	-3	10	30	-.12			
129	-3	20	30	-.11			
129	-3	30	30	-.16			
129	-3	40	30	-.26			
MIN @129 MHz FROM .02 kHz TO 40 kHz				-.26	-1.00		

** DC FM FREQUENCY ERROR=====

UUT AMPL (dBm)=0

CTR_FREQ (MHz)	DEV (kHz)	DELAY_TIME (Sec)	MEASURED (Hz err)	LOWER LIM (Hz err)	UPPER LIM (Hz err)	COND P/F
100	1	4	50	-500	500	
100	10	1	40	-500	500	
100	50	1	-60	-500	500	
100	99	1	-10	-500	500	
240	1	4	10	-125	125	
240	10	1	-20	-125	125	
240	50	1	10	-125	125	
400	1	4	10	-250	250	
400	10	1	30	-250	250	
400	50	1	0	-250	250	
400	99	1	30	-250	250	
1030	1	4	30	-500	500	
1030	10	1	40	-500	500	
1030	50	1	-70	-500	500	
1030	99	1	-10	-500	500	
1200	1	4	50	-1000	1000	
1200	10	1	70	-1000	1000	
1200	50	1	-170	-1000	1000	
1200	99	1	-140	-1000	1000	

** FM ACCURACY=====

UUT AMPL (dBm)=4

UUT MODULATION SOURCE (INT;EXT)=INT

CTR_FREQ (MHz)	MOD_FREQ (kHz)	DEV (kHz)	MEASURED (kHz)	LOWER LIM (kHz)	UPPER LIM (kHz)	COND P/F
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PK+ DET

** FM ACCURACY continued. . .=====

UUT AMPL (dBm)=4

UUT MODULATION SOURCE (INT;EXT)=INT

CTR_FREQ (MHz)	MOD_FREQ (kHz)	DEV (kHz)	MEASURED (kHz)	LOWER LIM (kHz)	UPPER LIM (kHz)	COND P/F
100	1	5	5.040	4.750	5.250	
100	1	30	29.670	28.500	31.500	
100	1	70	69.500	66.500	73.500	
100	1	99	98.200	94.050	103.950	
39.8	1	5	5.030	4.750	5.250	
39.8	1	30	29.640	28.500	31.500	
39.8	1	70	69.500	66.500	73.500	
39.8	1	99	98.100	94.050	103.950	
40.2	1	5	5.080	4.750	5.250	
40.2	1	30	29.950	28.500	31.500	
40.2	1	70	70.200	66.500	73.500	
40.2	1	99	99.200	94.050	103.950	
100	.4	5	5.070	4.750	5.250	
100	.4	30	29.900	28.500	31.500	
100	.4	70	70.000	66.500	73.500	
100	.4	99	98.900	94.050	103.950	

** FM DISTORTION=====

UUT AMPL (dBm)=4

UUT MODULATION SOURCE (INT;EXT)=INT

CTR_FREQ (MHz)	MOD_FREQ (kHz)	DEV (kHz)	MEASURED (%)	LOWER LIM (%)	UPPER LIM (%)	COND P/F
150	1	6	.09		.50	
150	1	10	.07		.50	
150	1	20	.06		.50	
150	1	30	.06		.50	
150	1	40	.07		.50	
150	1	50	.09		.50	
150	1	60	.09		.50	
150	1	70	.09		.50	
150	1	80	.09		.50	
150	1	90	.09		.50	
150	1	99	.09		.50	

** FM FLATNESS=====

UUT MODULATION SOURCE (INT;EXT)=EXT

CTR_FREQ (MHz)	AMPL (dBm)	MOD_FR (kHz)	DEV (kHz)	MEASURED (dB)	LOWER LIM (dB)	UPPER LIM (dB)	COND P/F
39.8	4	.02	16	.04			
39.8	4	.1	16	.08			
39.8	4	.5	16	.12			
39.8	4	5	16	-.09			
39.8	4	10	16	-.09			
39.8	4	20	16	.01			
39.8	4	30	16	.08			

** FM FLATNESS continued. . .=====

UUT MODULATION SOURCE (INT;EXT)=EXT

CTR_FREQ (MHz)	AMPL (dBm)	MOD_FR (kHz)	DEV (kHz)	MEASURED (dB)	LOWER LIM (dB)	UPPER LIM (dB)	COND P/F
39.8	4	40	16	.04			
39.8	4	50	16	-.03			
MIN VALUE FROM .02 kHz TO 50 kHz				-.09	-1.00		
39.8	4	60	16	-.15			
39.8	4	70	16	-.29			
39.8	4	80	16	-.42			
39.8	4	80	16	-.45			
39.8	4	90	16	-.59			
39.8	4	100	16	-.89			
MIN VALUE FROM .02 kHz TO 100 kHz				-.89	-3.00		

** FREQUENCY ERROR=====

UUT AMPL (dBm)=10

CTR_FREQ (MHz)	MEASURED (Hz err)	LOWER LIM (Hz err)	UPPER LIM (Hz err)	COND P/F
10	-10			
20	-10			
50	0			
100	0			
200	-10			
300	-10			
400	-10			
500	0			
700	0			
900	10			
1030	0			
1300	0			

** HARMONICS=====

CTR_FREQ (MHz)	HARM_FREQ (MHz)	AMPL (dBm)	MEASURED (dBc)	LOWER LIM (dBc)	UPPER LIM (dBc)	COND P/F
100	200	7	-43.25		-30.00	
100	300	7	-65.46		-30.00	
129	258	7	-44.46		-30.00	
129	387	7	-59.94		-30.00	
131	262	7	-60.11		-30.00	
131	393	7	-51.86		-30.00	
240	480	7	-47.05		-30.00	
240	720	7	-52.44		-30.00	
259	518	7	-49.17		-30.00	
259	777	7	-50.74		-30.00	
261	522	7	-54.94		-30.00	
261	783	7	-52.17		-30.00	
400	800	7	-57.25		-30.00	
519	1038	7	-42.71		-30.00	
520	1040	7	-44.08		-30.00	

** INCIDENTAL AM=====

UUT MODULATION FREQUENCY (kHz)=1

CTR_FREQ (MHz)	AMPL (dBm)	DEV (kHz)	BW (Hz/kHz)	MEASURED (% AM)	LOWER LIM (% AM)	UPPER LIM (% AM)	COND P/F
10	4	20	300/3	.063		.100	
100	4	20	300/3	.088		.100	
240	4	20	300/3	.060		.100	
400	4	20	300/3	.053		.100	
520	4	20	300/3	.043		.100	

1030	4	20	300/3	.050	.100
1300	4	20	300/3	.060	.500

** INCIDENTAL PM=====

UUT MODULATION FREQUENCY (kHz)=1

MEASURING RX DET (PK+;PK-;AVG;+-PK/2)=PK+

CTR_FREQ(MHz)	AMPL(dBm)	DEPTH(%)	BW(Hz/kHz)	MEASURED (rad)	LOWER LIM (rad)	UPPER LIM (rad)	COND P/F
.15	4	30	300/15	.064			.300
.25	4	30	300/15	.064			.300
.35	4	30	300/15	.064			.300
.45	4	30	300/15	.064			.300
.55	4	30	300/15	.065			.300
.65	4	30	300/15	.065			.300
.75	4	30	300/15	.065			.300
.85	4	30	300/15	.065			.300
.95	4	30	300/15	.064			.300
1	4	30	300/15	.065			.300
2	4	30	300/15	.067			.300
3	4	30	300/15	.064			.300
4	4	30	300/15	.065			.300
5	4	30	300/15	.062			.300
6	4	30	300/15	.064			.300
7	4	30	300/15	.064			.300
8	4	30	300/15	.063			.300
9	4	30	300/15	.063			.300
10	4	30	300/15	.062			.300
20	4	30	300/15	.064			.300
30	4	30	300/15	.064			.300
40	4	30	300/15	.057			.300
50	4	30	300/15	.050			.300
60	4	30	300/15	.041			.300
70	4	30	300/15	.039			.300
80	4	30	300/15	.037			.300
90	4	30	300/15	.033			.300
100	4	30	300/15	.036			.300
200	4	30	300/15	.062			.300
300	4	30	300/15	.066			.300
400	4	30	300/15	.053			.300
500	4	30	300/15	.047			.300
600	4	30	300/15	.047			.300
700	4	30	300/15	.055			.300

** INCIDENTAL PM continued. . .=====

UUT MODULATION FREQUENCY (kHz)=1
 MEASURING RX DET (PK+;PK-;AVG;+-PK/2)=PK+

CTR_FREQ (MHz)	AMPL (dBm)	DEPTH (%)	BW (Hz/kHz)	MEASURED (rad)	LOWER LIM (rad)	UPPER LIM (rad)	COND P/F
800	4	30	300/15	.064		.300	
900	4	30	300/15	.040		.300	
1000	4	30	300/15	.025		.300	
1100	4	30	300/15	.074		.300	
1200	4	30	300/15	.050		.300	
1300	4	30	300/15	.047		.300	

** MOD OSCILLATOR FREQUENCY ERROR=====

MOD_FREQ (kHz)	MOD_LEVEL (Vpk)	MEASURED (Hz err)	LOWER LIM (Hz err)	UPPER LIM (Hz err)	COND P/F
.4		-400.00	-8.00	8.00	FAIL
1		-1000.00	-20.00	20.00	FAIL

** OUTPUT LEVEL FLATNESS=====

CTR_FREQ (MHz)	AMPL (dBm)	MEASURED (dB)	LOWER LIM (dB)	UPPER LIM (dB)	COND P/F
.15	0	.15			
.2	0	.24			
.3	0	.14			
.4	0	.11			
.5	0	.10			
.6	0	.11			
.7	0	.12			
.8	0	.13			
.9	0	.14			
1	0	.15			
2	0	.09			
3	0	.10			
4	0	.09			
5	0	.08			
6	0	.07			
7	0	.06			
8	0	.15			
9	0	.13			
10	0	.11			
20	0	.13			
30	0	-.10			
40	0	-.12			
50	0	-.08			
60	0	-.05			
70	0	-.01			
80	0	-.02			
90	0	.02			
100	0	-.03			
200	0	-.12			

** OUTPUT LEVEL FLATNESS continued. . .

CTR_FREQ (MHz)	AMPL (dBm)	MEASURED (dB)	LOWER LIM (dB)	UPPER LIM (dB)	COND P/F
300	0	-.20			
400	0	-.17			
500	0	-.30			
600	0	-.30			
700	0	-.36			
800	0	-.41			
900	0	-.48			
1000	0	-.36			
1100	0	-.55			
1200	0	-.48			
1300	0	-.48			
1400	0	-.51			
1500	0	-.62			
1600	0	-.63			
1700	0	-.72			
1800	0	-.57			
1900	0	-.64			
2000	0	-.62			
2060	0	-.74			
DELTA FROM .15 TO 1040 MHz		.98		1.00	

** RESIDUAL AM

CTR_FREQ (MHz)	AMPL (dBm)	BW (Hz/kHz)	MEASURED (% AM rms)	LOWER LIM (% AM rms)	UPPER LIM (% AM rms)	COND P/F
100	0	50/15	.006		.040	
240	0	50/15	.005		.040	
400	0	50/15	.006		.040	
1040	0	50/15	.008		.040	
1300	0	50/15	.008		.040	

** RESIDUAL FM

CTR_FREQ (MHz)	AMPL (dBm)	MOD (Type)	BW (Hz/kHz)	MEASURED (Hz rms)	LOWER LIM (Hz rms)	UPPER LIM (Hz rms)	COND P/F
39.8	0	OFF	300/3	.45		4.00	
40.2	0	OFF	300/3	1.35		4.00	
50.001	0	OFF	300/3	2.70		4.00	
100	0	OFF	300/3	1.25		4.00	
39.8	0	OFF	50/15	1.50		6.00	
40.2	0	OFF	50/15	2.25		6.00	
50.001	0	OFF	50/15	3.45		6.00	
100	0	OFF	50/15	2.85		6.00	

** RF LEVEL ACCURACY

CTR_FREQ (MHz)	AMPL (dBm)	MEASURED (dBm)	LOWER LIM (dBm)	UPPER LIM (dBm)	COND P/F
3	13	13.04	11.50	14.50	

** RF LEVEL ACCURACY continued. . .=====

CTR_FREQ (MHz)	AMPL (dBm)	MEASURED (dBm)	LOWER LIM (dBm)	UPPER LIM (dBm)	COND P/F
3	8	8.08	6.50	9.50	
3	3	3.11	2.00	4.00	
3	-2	-1.91	-3.00	-1.00	
3	-7	-6.85	-8.00	-6.00	
3	-12	-11.96	-13.00	-11.00	
3	-17	-16.94	-18.00	-16.00	
3	-22	-21.95	-23.00	-21.00	
3	-27	-27.00	-28.00	-26.00	
3	-32	-31.99	-33.00	-31.00	
3	-37	-36.98	-38.00	-36.00	
3	-42	-41.99	-43.00	-41.00	
3	-47	-47.05	-48.00	-46.00	
3	-52	-52.05	-53.00	-51.00	
3	-57	-57.02	-58.00	-56.00	
3	-62	-62.03	-63.00	-61.00	
3	-67	-67.10	-68.00	-66.00	
3	-72	-71.98	-73.00	-71.00	
3	-77	-77.02	-78.00	-76.00	
3	-82	-82.03	-83.00	-81.00	
3	-87	-87.01	-88.00	-86.00	
3	-92	-92.01	-93.00	-91.00	
3	-97	-97.07	-98.00	-96.00	
3	-102	-102.07	-103.00	-101.00	
3	-107	-107.06	-108.00	-106.00	
3	-112	-112.07	-113.00	-111.00	
3	-117	-117.09	-118.00	-116.00	
3	-122	-122.15	-123.00	-121.00	
3	-127	-127.28	-128.00	-126.00	
400	13	12.52	11.50	14.50	
400	8	7.65	6.50	9.50	
400	3	2.76	2.00	4.00	
400	-2	-2.15	-3.00	-1.00	
400	-7	-7.19	-8.00	-6.00	
400	-12	-12.18	-13.00	-11.00	
400	-17	-17.17	-18.00	-16.00	
400	-22	-22.17	-23.00	-21.00	
400	-27	-27.23	-28.00	-26.00	
400	-32	-32.23	-33.00	-31.00	
400	-37	-37.20	-38.00	-36.00	
400	-42	-42.21	-43.00	-41.00	
400	-47	-47.26	-48.00	-46.00	
400	-52	-52.15	-53.00	-51.00	
400	-57	-57.24	-58.00	-56.00	
400	-62	-62.25	-63.00	-61.00	
400	-67	-67.21	-68.00	-66.00	
400	-72	-72.19	-73.00	-71.00	
400	-77	-77.25	-78.00	-76.00	
400	-82	-82.25	-83.00	-81.00	
400	-87	-87.24	-88.00	-86.00	

** RF LEVEL ACCURACY continued. . .=====

CTR_FREQ (MHz)	AMPL (dBm)	MEASURED (dBm)	LOWER LIM (dBm)	UPPER LIM (dBm)	COND P/F
400	-92	-92.25	-93.00	-91.00	
400	-97	-97.20	-98.00	-96.00	
400	-102	-102.20	-103.00	-101.00	
400	-107	-107.27	-108.00	-106.00	
400	-112	-112.30	-113.00	-111.00	
400	-117	-117.31	-118.00	-116.00	
400	-122	-122.32	-123.00	-121.00	
400	-127	-127.30	-128.00	-126.00	
1030	13	12.48	11.50	14.50	
1030	8	7.47	6.50	9.50	
1030	3	2.48	2.00	4.00	
1030	-2	-2.55	-3.00	-1.00	
1030	-7	-7.56	-8.00	-6.00	
1030	-12	-12.55	-13.00	-11.00	
1030	-17	-17.55	-18.00	-16.00	
1030	-22	-22.50	-23.00	-21.00	
1030	-27	-27.52	-28.00	-26.00	
1030	-32	-32.55	-33.00	-31.00	
1030	-37	-37.56	-38.00	-36.00	
1030	-42	-42.51	-43.00	-41.00	
1030	-47	-47.64	-48.00	-46.00	
1030	-52	-52.52	-53.00	-51.00	
1030	-57	-57.61	-58.00	-56.00	
1030	-62	-62.55	-63.00	-61.00	
1030	-67	-67.46	-68.00	-66.00	
1030	-72	-72.52	-73.00	-71.00	
1030	-77	-77.53	-78.00	-76.00	
1030	-82	-82.54	-83.00	-81.00	
1030	-87	-87.55	-88.00	-86.00	
1030	-92	-92.53	-93.00	-91.00	
1030	-97	-97.66	-98.00	-96.00	
1030	-102	-102.71	-103.00	-101.00	
1030	-107	-107.89	-108.00	-106.00	
1030	-112	-113.20	-113.00	-111.00	FAIL
1030	-117	-118.62	-118.00	-116.00	FAIL
1030	-122	-124.57	-123.00	-121.00	FAIL
1030	-122	-131.55	-128.00	-126.00	FAIL
1300	13	12.59	11.50	14.50	
1300	8	7.58	6.50	9.50	
1300	3	2.48	2.00	4.00	
1300	-2	-2.58	-3.00	-1.00	
1300	-7	-7.58	-8.00	-6.00	
1300	-12	-12.55	-13.00	-11.00	
1300	-17	-17.54	-18.00	-16.00	
1300	-22	-22.61	-23.00	-21.00	
1300	-27	-27.60	-28.00	-26.00	
1300	-32	-32.63	-33.00	-31.00	
1300	-37	-37.63	-38.00	-36.00	
1300	-42	-42.69	-43.00	-41.00	

** RF LEVEL ACCURACY continued. . .

CTR_FREQ (MHz)	AMPL (dBm)	MEASURED (dBm)	LOWER LIM (dBm)	UPPER LIM (dBm)	COND P/F
1300	-47	-47.68	-48.00	-46.00	
1300	-52	-52.66	-53.00	-51.00	
1300	-57	-57.66	-58.00	-56.00	
1300	-62	-62.61	-63.00	-61.00	
1300	-67	-67.69	-68.00	-66.00	
1300	-72	-72.64	-73.00	-71.00	
1300	-77	-77.64	-78.00	-76.00	
1300	-82	-82.61	-83.00	-81.00	
1300	-87	-87.61	-88.00	-86.00	
1300	-92	-92.66	-93.00	-91.00	
1300	-97	-97.67	-98.00	-96.00	
1300	-102	-102.67	-103.00	-101.00	
1300	-107	-107.66	-108.00	-106.00	
1300	-112	-112.72	-113.00	-111.00	
1300	-117	-117.69	-118.00	-116.00	
1300	-122	-122.55	-123.00	-121.00	
1300	-127	-127.43	-128.00	-126.00	

Total passed= 273 Total failed= 6