

TESTS FOR GL72A/B

TESTS RESULTS FOR RADIO SERIAL NO:

TESTS ACCORDING TO THE FOLLOWING PARAGRAPHS IN SECTION 5, PART III

1. Synthesiser

Test 4	V Tuning 118.00 MHz Rx	>	0.9 volts
Test 5	V Tuning 136.975 MHz Tx	<	8.6 volts
Test 8	Synthesiser output level @		136.975 Tx > 14 dBmW
			125.000 Tx < 16 "
			118.000 Tx > 14 "
			118.000 Rx < 10 "
Test 9	Receiver LO output level @		136.975 Rx > -3 "
			118.000 Rx > -3 "

2. Transmitter

Test 3	Transmitter output power @		6.6v 12.5v dBmW
			136 MHz > 29.5 >34.5 "
			127 MHz > 31.5 >36 "
			118 MHz > 29.5 >34.5 "
Test 4	Transmitter output power @		127 MHz 14.5v > 36.5 "

3. Receiver/Combined Tests

Test 2	Transmitter output power with 7v @ 125 MHz		31.5 dBmW
Test 3	Voltage at EM input to produce 10v pp at PA		< 10 mV pp
Test 10	Output levels at 50% Mod @ 3uv input level		118 MHz > 5 dBm
			125 MHz > 5 dBm
			136.975 MHz > 5 dBm
Test 9	Image response @		118 MHz >60 dB
			129 MHz >50 dB
			136.975 MHz >40 dB
Test 9a	Overload at 124.65 MHz V at 3uV input whilst receiving 130 MHz		>46 dB
Test 11	Squelch control range @		125 MHz 2 uV to 1 mV

Test 12 Sensitivity for 8vpp (2.82v RMS)
 audio output on worst channel 100% Mod < 3 uV
 50% " <10 uV

Test 13 AGC range for 10 dB audio spread < 6 uV to 100 mV

Test 14 Signal to noise on worst channel @ 2uV input > 20 dB
 @100uV input > 30 dB

Test 17 Total RF power measured at Rx antenna output < -60 dBmW

Test 18 Modulation depth for 10 mV RMS mic input > 80%
 Tx output pwr at band edge 118.00 MHz > 29.5 >30dBmW
 127.00 MHz > 31.5 >32dBmW
 136.975MHz > 29.5 >30dBmW
 Tx Output Power @ 127 MHz 15v > 1.9w
 Tx Distortion @ 70% Mod < 25%

Test 20 Harmonic Levels Tx at

		2nd	3rd	
118.00MHz	>	48	"	dB
122.00MHz		"	"	
126.00MHz		"	"	
130.00MHz		"	"	
136.975MHz		"	"	

Test 23 Transmitted frequency error at

20oC	<	300	Hz
30oC			Hz
40oC			Hz
50oC			Hz
10oC			Hz
0oC			Hz
-15oC			Hz

Test 12 Repeated @ 50oC uV @ MHz
 -15oC uV @ MHz

Test 19 Repeated @ 50oC uV @ MHz
 -15oC

Test 20 Repeated @ 50oC
 -15oC