TURN UP INFORMATION

INTRUMENT:

Standard Signal Generator(SSG) 1set
Digital Voltmeter 1set
Power Meter 1set
Frequency counter 1set
Distortion meter 1set
Spectrum analyzer 1set
Oscilloscope 1set
Audio Generator (AG) 1set
AF Volt Meter 1set
Tracking Generator 1set
8Ω Dummy Load 1set
Regulated power supply 1set
Ammeter 1set
Deviation Meter 1set

Adjustment:

Some items can be adjusted in conventional mode and the others in manual mode
Turn the power on to enter conventional mode.

Common Section

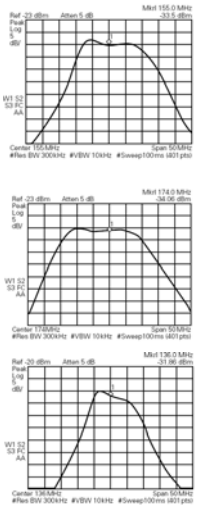
Item	Condition	Measurement		Adjustment		Specification/Remarks
		Test Instrument	Terminal	Part	Method	
1.Setting	1) BATT Terminal Voltage : 7.2V 2) SSG standard Modulation [WIDE]MOD:1kHz,DEV:3kHz [NARROW]MOD:1kHz,DEV:1.5kHz					
2.VCO Lock voltage RX	1)CH : HI	Power Meter DVM	ANT CV	TC2	3.6 V	±0.1V
	2)CH : LO				CHECK	≥0.9V
3.VCO Lock voltage TX	3)CH : HI PTT : ON			TC1	3.8 V	±0.1V
	4)CH : LO PTT : ON				CHECK	≥0.7V

Transmitter Section：

Item	Condition	Measurement		Adjustment		Measurement
		Test Instrument	Terminal	Test Instrument	Terminal	
1. Frequency Adjustment	1）CH : HI 2）PTT : ON	Frequency counter	ANT	VR1	469.975MHz	±50Hz

2. High Power Adjust	TEST CH: LO Center HI (3 POINT) BATT Voltage:7.2V PTT : ON	Power Meter Ammeter		Programming software : U10		3.7W(Conducted) ≤1.6A
3. Low Power Adjust(N/A)	BATT terminal Voltage :7.2V PTT : ON					
4. Max deviation adjust [wide]	TEST CH: Center AG : 1kHz / 120mV Deviation meter filter LPF : 15kHz HPF : OFF PTT : ON	Power meter Deviation meter Oscilloscope AG AF VTVM	ANT SP / MIC connecto r		4.6kHz (According to th lager+,-)	±50Hz Error: 3.8~4.8KHz
[narrow]	TEST CH : Center PTT : ON				2.3kHz (According to th lager+,-)	±50Hz
5. DQT Balance adjust [wide	TEST CH: LO MID HI (3 POINT) LPF : 3kHz HPF : OFF PTT : ON	Power meter Deviation meter Oscilloscope AG AF VTVM	ANT	Programming software : U10	Make the demodulation wave into square waves	
[narrow]	TEST CH : Center PTT : ON					
6. QT deviation adjust [wide]	TEST CH: LO MID HI (3 POINT) LPF : 3kHz HPF : OFF PTT : ON	Power meter Deviation meter Oscilloscope AG AF VTVM	ANT	Programming software : U10	0. 75kHz	±100Hz
[narrow]	TEST CH : Center PTT : ON				0. 35kHz	±100Hz
7. DQT deviation adjust	TEST CH : Center Low High (3 points) LPF : 3kHz HPF : OFF PTT : ON				0. 75kHz	±100Hz
[narrow]	TEST CH : Center PTT : ON				0. 35kHz	±100Hz

Receiver Section

Item	Condition	Measurement		Adjustment		Specification/Remarks
		Test Instrument	Termi	Part	Method	
1. BPF Wave adjust	(1)Center frequency Spectrum analyzer setting Center-f : 440.125MHz Span : 50MHz RBW : 300kHz VBW : 10kHz ATT : 5dB (2)High-edge frequency Spectrum analyzer setting Center-f: 469.975 MHz (3)Low-edge frequency Spectrum analyzer setting Center-f : 406.125 MHz	Spectrum analyzer	ANT BPF	Programming software : U10	Adjust the waveform as shown to the right	
2. Sensitivity [wide]	TEST CH : LOW Center High SSG output : -119dBm (0.3μV) SSG MOD : 3.0kHz	SSG DVM Oscilloscope AF VTVM	ANT		check	12dB SINAD or more
[narrow]	TEST CH : Center SSG output : -117 dBm (0.4μV) SSG MOD : 1.5kHz					
3. SQL1 (Threshold) writing [wide]	TEST CH : Center LOW High SSG output : -123 dBm (0.16μV) SSG MOD : 3.0kHz			Programming software : U10	write	Squelch open Error: ± 1.5dB
[narrow]	TEST CH : Center SSG OUTPUT : -122 dBm (0.18μV)					
4. SQL9 (Tight writing [wide]	TEST CH : Center Low High SSG output : -117 dBm (0.3μV)					
[narrow]	TEST CH : Center SSG output : -116 dBm (0.35μV)					
5. BATT Detection Writing	BATT Terminal voltage : 5.6V	DVM	ANT BATT termin al		writing	BATT Terminal voltage : 5.6V