Adjustment

● Must uses in the adjustment test facility:

Test facility	Principal characteristic
RF Communication Test Set	Frequency ranges 0.4~1GHz
Frequency Speciality Test Set	Frequency ranges 0~500MHz
Digital Volt Meter	Test ranges DC10mV~12V
Spectrum Analyzer	Test ranges Till to1GHz or more
Regulated Power Supply	5~12V about 5A
Ammeter	5A

Public part

Items	Conditions	Measure		Adjustment		Remark
		Test facilities	Terminal	Part	Method	
1. Setup	1）battery voltage：7.2V 2 ） SSG standard modulate MOD:1KHz DEV:3KHz					
2.VCO locked voltage RX	CH：High	RF Communication Test Set Digital Volt Meter	ANT LV	C238	2.8V	±0.1V
	CH：Low				Check	0.7V or more
2.VCO locked voltage TX	CH：High			C237	2.7V	±0.1V
	CH：Low				Check	0.9V or more

Transmit part

Items	Conditions	Measure		Adjustment		Remark
		Test facilities	Terminal	Part	Method	
1.Frequency Adjust	1）CH：High 2）PTT：ON	RF Communication Test Set Ammeter	ANT	VR1		High frequency ±50Hz
2.High Power Adjust	Test CH：Low Center High （3 points） Battery voltage ：7.2V PTT：ON					3W±0.4W (Conducted) 1.7A or less

Items	Conditions	Measure		Adjustment		Remark
		Test facilities	Terminal	Part	Method	
3. Low power output adjust	Test CH：Low Center High （3 points） Battery voltage：7.2V PTT：ON	RF Communication Test Set Ammeter	ANT			1W±0.2W 0.8A or less
4. Maximum deviation adjust	Test CH：Low Center High （3 points） AG ：1KHz/200mV PTT：ON		ANT SP/MIC Connector	VR2	according to the max +.-	4.2 KHz ±0.3 KHz
5. Microphones sensitivity checking	Test CH ：Center AG：1KHz/10mV PTT：ON				Check	2.4~3.3KHz
6. QT deviation adjust	Test CH：Low Center High （3 points） HPF：50Hz LPF：300Hz PTT：ON		ANT	VR3	0.75KHz	±150Hz
7. DQT deviation adjust	Test CH：Low Center High （3 points） HPF：＜20Hz LPF：300Hz PTT：ON				1KHz	±200Hz
8. Audio distortion	Test CH：Center Adjust AFGen1 Lv1 let FM distortion be the 60% of the Maximum deviation （3KHz） PTT：ON		ANT SP/MIC Connector		≤5%	

Receive part

Items	Conditions	Measure		Adjustment		Remark
		Test facilities	Terminal	Pare	Method	
1.BPF wave adjust	Test CH：Low Center High	Frequency Speciality Test Set	ANT BPF		Wave check	
2. Sensitivity Check	Test CH：Low Center High Amplitude：-119dB AFGen1 To：3KHz	RF Communication Test Set	ANT SP/MIC Connector		Check	12dB SINAD or more
3.SQL2 write	Test CH：Low Center High Amplitude：-124dB AFGen1 To：3KH		ANT		Write	Open the squelch
4.SQL2 Write	Test CH：Low Center High Amplitude：-118dB AFGen1 To：3KH					