DATE 8-17 SHEET 1	7-64 <b>18</b>	TMC SPECIFICATION NO. S 828	A
R.M. COMPILED	CHECKED	TITLE: Production Test of Model SBE-6	
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COMPLETE PRODUCTION TEST

INSTRUCTIONS FOR

TMC MODEL SBE-6

TRANSMITTING MODE SELECTOR

DATE 8-1	7-64		
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## TEST EQUIPMENT REQUIRED

Hewlett Packard Model 524-C Frequency Counter 314 Ballentine A.C. Voltmeter \* LIOB Hewlett Packard VIVM **98** ... Howlett Packard 200CD Audio Generator 543 Tektronics Oscilloscope Spectrum Analyser TMC PTE-3 Heath Kit AV-3 MYTV TMC Type CR-27/U Crystal 2.000 MC 4.000 MC TMC Type OR-27/U Crystal TMC Type CR-27/U 2.250 MC Crystal TMC Type CR-27/U 4.250 MC Crystal

70A2 Watt Resistor

1 Megahm Resistor ½ Watt.

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#### \*A. PRELIMINARY:

- Inspect the unit for mechanical imperfections, proper type and placement of filters, vacuum tubes/ and obvious wiring errors. Attach jumper to terminals 2 & 3 of E-101.
- 2. Check the even heaters by measuring the resistanc b tween pins D and E of J-109. For 115 V AC connections this value should be 300 + 10%; for 230 V AC connections 600 + 10%.
- 3. Check ALDC circuitry as follows: From Jll3 to ground (chassis) reading should be 470 K + 10%; From Jll3 to pins 2 and 7 of Vll3 reading should be 23K + 10% in each case.
- 4. Check to insure that the RF and MF dial calibration marks line up with the Red line at the counterclockwise dial stop.
- 5. Connect the 70\_0load to the RF Output connector J-103.
- 6. Place test crystals in the oven as follows:

Position	Frequency
1.	2.0 mc
2.	4.0 me
3.	2.25 mc
4.	4.25 mc

- 7. Connect the unit to the power supply and apply AC power. The Oven and Dial lamps should light up. After a bri f warmup period, when oven lamp commences to cycle ON and OFF, proceed with the tests below.
- 8. With the Meter Switch in the CAL pesition, adjust th CAL potentiometer for ZERO reading of Meter M-101.

# \*B. 250 Kes Oscillator Check:

1. With the VTVM check the output voltage of the 250 K s escillator at Pin 8 of 2103. The reading should be between .8 and 1.2 y lts.

NOTE: Indicate compl tion and acceptanc of portion(s) of this test preceded by (\*) by recording required obs rv d value or by check (/) mark as required on attached test Data Sheets.

2. With the Prequency Counter sheek the frequency of the 250 Kes escillator at Pin 8 of 2103. Adjust C-210 if n cessary to obtain 250 Kes + 3 ops.

#### \*C. Modulator Tests:

- #1. Tuning T-125 and 250 Kes Carrier Balance, LSB.
  - a. Place the Output Tuning Bandswitch to 4-8 mc band, LSB selector switch to CHAN 1, and all other chann 1 controls to minimum or off.
  - b. Connect the AF generator to terminals 6 and 8 of E-101, Channel 1, for balanced line operation. To minimise unwanted pick up use twisted shielded pair with the shield grounded to terminal 7 thence by jumper t terminal 5.
  - c. Adjust the AF generator frequency for approximately mid point of the audie bandpass, 3575 cps at .05 volt output.
  - d. Connect the Ballentine VM to the Output terminals of Z-110 and adjust LSB Gain control for a 10 db d flection on the .1 volt scale. Adjust the top and bottom tuning slugs of T-125 for maximum deflection.
  - e. Turn OFF the AF generator and adjust R-265, Carrier Balance, for minimum deflection of the VM across the output of Z-110.
- #2. Tuning T-126 and 250 Kcs Carrier Balance, USB.
  - a. Repeat the above tests for T-126 for the USB Z-111 filter and Carrier Balance control R-266.
- \*3. Tuning T-127.
  - a. With the AF generator disconnected from the unit, MF XTAL switch in VMO position connect the Ballentin VM to Pin 2 or 7 of V-113, MF Modulator, insert full carrier with the Carrier Insert control R-263.
  - b. Tune top and bottom slugs of T-127 for maximum indication on the Ballentine VM.

NOTE: Indi ate ompl tion and acceptanc of portion(s) of this t st pr ceeded by (\*) by recording requir d obs rved value or by check (\*) mark as required on attached t st Data She ts.

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c. Repeat with reduced carrier to insure sharp tuning indication on meter.

## \*D. Audio & Sideband Reversal Test.

#### #1. Microphone Input.

- a. Connect the AF generator unbalanced output in series with 1 megoka resistor to Pin 1 of Mike Input jack and thence to ground, Pin 2.
- b. Set the USB and LSB Selector switches to OFF and Carrier Insert to minimum.
- c. Set RF Bandswitch to any position except 2-4 m s.
- d. Turn LSB Selector switch to Mike position. With th AF generator set to 1000 cps and an output of .05 volt, adjust the LSB Gain control for a deflection of 100% on LSB meter position. This point on the gain control should be reached before its maximum gain position.
- e. Connect the VTVM across the Cutput terminals f LSB filter Z-110 on the O-1 volt scale. Note output indication and turn RF Bendswitch to the 2-4 mcs band the output indication should now be transferr d from the LSB filter Z-110 to the output of the USB filter Z-111.

## #2. Channel 1 Input.

- a. Connect the AF generator balanced output to terminals 6 and 8 of E-101 with a twisted shielded pair and shield connected to terminal 7 thence by jumper t terminal 5, ground.
- b. Set USB and LSB Selector switches to OFF and Carri r Insert to minimum.
- c. Set RF Bandswitch to any position except 2-4 mes.
- d. Turn LSB Selector switch to Channel 1 position. With the AF generator set to 1000 eps and an output of .05

NOTE: Indicat compl tion and a ceptane of portion(s) of this test preceded by (\*) by r cording required observed valu or by ch ck () mark as required on attached test Data She ts.

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volt, as measured across one side of the AF generator balanced output and ground. Adjust the LSB Gain entrol for a deflection of 100% on the LSB meter position. This point on the gain control should be reached before its maximum gain position.

e. Connect the VTVM across the Output terminals of LSB filter Z110 on the 0-1 velt scale. Note output indication and turn RF bandswitch to the 2-4 mcs band the output indication should now be transferred from the LSB filter Z110 to the output of the USB filt r Z111.

#### \*3. Channel 2 Input.

- a. Connect the AF generator balanced output to terminals 10 and 12 of E-101 with a twisted shielded pair and shield connected to terminal 11 thence by jumper to terminal 9, ground.
- b. Repeat the tests for paragraphs b thru e of Channel 1 Input above, with the exception that USB should be substituted for LSB and vice versa, Zl10 for Zl11 and vice versa. Requirements remain as for Channel 1 Input above.

## \*E. VOX Tests:

#### #1. Gain

- a. Set VOX gain R-140 to maximum.
- b. All other gain controls to minimum.
- c. Increase Carrier Insertion R-263 until the Excit r Lamp T-101 lights and relay K-101 operates, as evidenced by ZERO resistance reading from Pin 4 of E-101 to ground.
- d. With the VTVM on Pin 2 of V110 a reading of .17 to .5 volt should be obtained.
- e. With the Carrier Insertion R-263 reduced to minimum, the Exciter Lamp and Relay K-101 should deenergise

NOTE: Indicate completion and a sptanc of portion(s) of this test press ded by ( ) by re ording requir d bserved value or by check ( ) mark as requir d on attached test Data She ts.

as indicated by infinite resistance from terminal 4 of El01 to ground.

f. Set the Transmitter switch S-104 to ON, the resistance reading from terminal 4 to ground of K-101 should again be ZERO.

#### #2. Squelch Test and Push to Talk:

- a. Set VOX gain R-140 to maximum.
- b. All other gain controls to minimum.
- c. Increase Carrier Insertion R-263 until Exciter Lamp lights.
- d. Place Squelch Gain R-129 to maximum.
- e. Connect AF generator unbalanced output to Terminals 13 and 14 of E-101. With the generator set to 1000 ps adjust its output until the Exciter Lamp extinguish s.
- f. With the VTVM measure the voltage at Pin 9 of Vll0 it should be between .5 to 1.0 volt.
- g. To simulate closing of the Push to Talk circuit short terminal 1 of E-101 to ground. The Exciter Lamp should light and Relay K-101 should operate.
- h. Return VOX gain and Squelch controls to minimum.

## \*F. M.F. ALIGNMENT-INJECTION-CARRIER BALANCE

- \*1. Mid Frequency Alignment.
  - a. At the mixer grid of VII3 there may appear two frequencies, a 250Kc frequency (carrier insert d) and a VMO injection frequency. At the band extremes the following table applies.

XTAL OR VMO	DIAL READING	LF	RESULTING FREQ.
20 <b>00</b> Кс	2.0 Mg	250 Ke	1.75 M
4000 Кс	4.0 Mg	250 Ke	3.75 Me

NOTE: Indicate compl tion and acc ptan of portion(s) of this t st prec eded by (\*) by r cording required obs rved value or by check (\*) mark as required on attached test Data Sheets.

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- b. The MID FREQUENCY is aligned so that the proper produ t is chosen when the dial is set to the VMO or XTAL frequency, that is, when a 2000 Kc xtal is injected, the MF dial is set to 2.0 Mc but the actual frequency is 1.75 Mc which is the difference between the 2000 Kc xtal and the 250 Kc LF. With this in mind, preliminary alignment may be accomplished by using the 2000 Kc and h000 Kc xtals ( er VMO).
- c. Before aligning the MF, see that the tuning capacitors are in full mesh when the dial is set to the marker on the MF dial.
- d. Remove Pl07 from Jl10 on Zl07. Commest VTVM to Pin 2 of Zl07. Unbalance injection with Rl30, MF Balance Control.
- e. Select xtal position 1 (2000 Kc). Set MF dial t 2.25 Me. Tune T109 and T110 for maximum output.
- f. Select xtal position 2 (4000 Kc). Set MF dial t 4.25 Mc. Tune trimmers Cl40 and Cl41 for maximum output.
- g. This preliminary alignment will ensure subsequent selection of the preper mixer product on the MF dial

#### #2. Carrier Balance.

- a. Select xtal position 1 (2000 Kc)
- b. MF dial to 2.25 Mc.
- c. Carrier Insert CCW, adjust R130 for minimum earri r as indicated by observing Meter in MP position. Lock R130. Reconnect P107 to J110.
- d. Insert full carrier. Select xtal position 1 (2000 Ke). Set MF dial to 2.0 Me. Tune Tl09 and Tl10 for maximum output. Select xtal position 2 (4000)Ke. Set MF dial to 4.0 me. Tune Cl40 and Cl41 for maximum output in each case reduce the carrier to insure that proper mix r product has been selected. Repeat until band is tracked. Lock slugs with spintite tool.

NOTE: Indicate compl tion and ace ptance f portion(s) f this test preceded by (\*) by rec rding requir d observed valu or by ch ck (") mark as required on attabed t at Data Sheets.

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#### \*3. Crystal and VMO Injection Check.

- a. Connect the VCX-5 output from the PTE analyzer to VNO input J104. Maintain a .1 on VCX-5 output meter level for all subsequent tests.
- \*b. Connect the RF voltmeter at the junction of Cl63 and Cl64 and measure the voltages under conditions indicated below:

S-107 Position	Freq.	Min. Voltage Limit
1	2.0 me	1.5 V.
2	4.0 me	.6 V.
VMO	2.0 me	1.5 V.
VMO	4.0 mc	.6 V.

#### #G. R.F. CIRCUITS ALIGNMENT

- \*1. HF Oscillator and Multiplier Alignment:
  - a. Remove lead from J108 and make connections from J108 to RF VTVM.
  - b. All controls except "Power On" and "Exciter ON" switches in OFF Position or minimum.
  - e. Adjust L101 through L114 for maximum indication on RF VTVM at the corresponding "Injection" Frequen y shown below. Output requirement is not less than .3. volts.
  - d. Remove VIVM and connect frequency Counter to J-108.
  - e. Adjust C-233 through C-240 for the correct frequency as indicated by the Frequency Counter for the frequencies shown in "Injection" column below.

NOTE: Indicate completion and acceptan of portion(s) of this test preceded by (\*) by r c rding required obs rved valu or by check \* mark a required on attach d t st Data Sheets.

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f. Repeat above until frequency and output voltag s ame correct. Reconnect P-105 to J-108.

BAND MC	XTAL F. (mc)	INJECT F. (mc)	ADJUSTMENTS	BEMARKS
456 78 10 11 12 13 14 15	8 10 12 14 8 18 10 11 12 13	8 10 12 14 16 18 20 22 24 26 28	C233 L101 C234 L102 C235 L103 C236 L104 L105 C237 L106 L107 C238 L108 L109 C239 L110	When adjusting coil slugs L101 thru L114 turn slug all the way out and adjust on the first peak indi ation.
15 16 17	16 8 17	30 32 34	6 <b>5</b> 40 <b>Г</b> 114 Г113 Г115	

- 2. Preliminary RF Amplifier Alignment:
  - a. Before alignment, check full meshing of capacitors C-181 against dial marking at low frequency end of dial.
  - b. Channel 1 and 2 selector switches OFF.
  - c. XTAL Switch Position 1 (2,000 mc), Carrier Ins rt set for maximum, CW.
  - d. MF Tuning tuned to 2 MC. Meter in MF Position.
  - e. AF Output terminated in 70 Aload.
  - f. R.F. Voltmeter across 7091cad.
  - g. In subsequent RF alignment tests the drive should be sufficiently low to preclude broad response meter indications.

NOTE: Indi ate compl tion and acceptanc of portion(s) of this test pre end d by (\*) by recording required obs rved value or by check () mark as requir d on attembed test Data Sheets.

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- 3. 1.75-4 MC Band Alignment.
  - a. Output Tuning Bandswitch 1.75-4 Mc Band.
  - b. Band Mc Switch to Band O. MF Tuning tuned to 2.MC. Meter in MF position.
  - c. RF Tuning tuned to 1.75 Mc, Meter switch in RF position.
  - d. Tune T-116 and T-120 for maximum output.
  - e. XTAL Switch position 4 (4.250 me), cerrier ins rted and MF Tuning tuned to 4.250 mc on meter in MF position.
  - f. RF Tuning tuned to 4 MC, meter switch in RF position.
  - g. Peak C-191 and C-179 for maximum output on VTVM.
  - h. Repeat above steps with reduced drive to insur prop r band alignment, and sharp tuning peaks.
- 4. 4-8 MC Band.
  - a. Output tuning bandswitch to 4-8 MC Band.
  - b. XTAL Switch position 4 (4.250 MC)
  - c. Tune MF to 4.250 MC, Meter in MF Position.
  - d. Output tuning tuned to 4MC, Meter in RF Position.
  - e. Tune T-113, T-117 and T-121 for maximum output.
  - f. Carrier Insert CCW, minimum carrier.
  - g. MF XTAL Switch to VMO position (remains in this position for subsequent RF Band Alignments)
  - h. Band MC Switch in Band 4 (8MC)
  - i. Output Tuning tuned to 8 MC.
  - j. Peak capacitors C-203, C-192 and C-180 for maximum output.
  - k. Repeat above procedure to insure proper band alignment with reduc d driv to insure sharp tuning peaks.

NOTE: Indicate compl tion and acceptanc of portion(s) f this test pre eed d by (\*) by re ording requir d bs rv d value or by check () mark as required on attached test Data She ts.

5. 8-16 MC Band.

- a. Output Tuning Bandswitch to 8-16 MC Band.
- b. Output Tuning tuned to 8 MC.
- c. Band MC Switch in Band 4 (8MC)
- d. Tune T-115, T-119 and T-122 for maximum output.
- e. Band MC Switch to band 8 (16MC)
- f. Output Tuning tuned to 16 MC. Meter switch in RF position.
- g. Peak capacitors C-202, C-190 and C-178 for maximum output.
- h. Repeat above procedure to insure proper band alignment with reduced drive to insure sharp tuning p aks.
- 6. 16-32 MC Bend.
  - a. Output Tuning Bandswitch to 16-32 Band.
  - b. Output Tuning tuned to 16 MC.
  - e. Band MC Switch in Band 8 (16MC)
  - d. Tune T-114, T-118 and T-112 for maximum output.
  - e. Band MC Switch to Band 16 (32MC)
  - f. Output Tuning tuned to 32 MC, and RF Meter Switch to RF output position.
  - g. Peak capacitors C-201, C-189 and C-177 for maximum output.
  - h. Repeat above procedure to insure proper band alignment with reduced drive to insure sharp tuning peaks.
- #7. Output Voltages and HF Carrier Balance.
  - a. Carrier insert CCW, minimum.

NOTE: Indicate completion and a c ptane of p rtien(s) f this test prece ded by (\*) by recording required observed value or by check (/) mark as required on attached t at Data Sheets.

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b. Band MC Switch to Position 0, RF tuning tun d to 18 MC.

- e. RF Output Control set for mid scale reading on met r in RF position.
- d. Balance R-150 of Zl07 for minimum indication on RF output meter.
- e. Band MC Switch to band O.
- f. Set xtal selector switch to position 3 (2.250 Me)
- g. With carrier inserted, tune MF to 2.250 Mc as indicated on Meter in MF Position.
- \*h. Audio generator connected to terminals 6-8 of ElOl carrier insert CCW. LSB or USB gain set for 100% on MF meter.
- i. Set RF bandswitch to 2-4 MC range. Tune output amplifier to 2 MC.
- j. Check for 10.V minimum across 70.0 load.
- k. The above Output Voltage test procedure must b r peated in two (2) megacycles increments from 2
  through 32 Mc, each time checking that a minimum 10
  volt RF output is obtained across the 70 1 ad.
- 1. When performing above tests insure dial calibration is correct.

## H. OVERALL TESTS & REQUIREMENTS

- \*1. Power Output & Signal to Distortion Test
  - a. This test will be made on one frequency select d at random in each one of the four RF Bands, note she t 18 of 18, Data Sheet.
  - b. Connect the two AF test tones from the PTE analyz r with a twisted shielded pair to Channel 1 input, terminals 6 and 8 of E-101 with the shield own ot d to terminals 7 and 5. Connect the analyzer RF input to the 70010ad.

NOTE: Indicate completion and a c ptance of portion(s) f this t st prec ded by (\*) by r ording requir d observ d valu or by check (\*) mark as required on attached test Data Sh ts.

- c. With the USB selector set to channel 1 and USB gain set not to exceed 100 on Meter in MF position, tun the unit to the selected output frequency for an output of 8.4 RF volts across the 70.01oad.
- d. Setup and adjust PTE as follows to measure th S/D in the USB-
  - (a) Gain fully clockwise.
  - (b) Amplitude scale switch to LOG.
  - (e) CAL OSC to OFF.
- e. IF attenuator to 20 db position.
- f. Sweep selector to 14 Kc.
- g. AFC to OFF
- h. The VOX-5 in the PTE should be adjusted for a frequency 500 Kc higher than the signal frequency to be displayed. The two tone test signal should be set to the center of the analyzer.
- i. Adjust input attenuator switches so that two tone test signal peaks are as close as possible to th 0 line or slightly above. With the gain control set these peaks to the 0 line on the analys r.
- j. Place IF attenuator switch to 0 position thus x-panding the 0 to 40 db scale to 0 to 60. Note the odd order distortion products.

REQUIREMENT: The S/D must be at least 45db below either tone of a standard two ton test for 1 watt PEP as viewed on PTE Panalyser.

- #2. Carrier Suppression.
  - a. This test will be performed on the same frequencies as the test in paragraph 1 above and with the sam general PTE setup.
  - b. Turn USB and LSB switch s to OFF, no AF input.

NOTE: Indi ate smpletion and acc ptane of portion(s) f this t st pres d d by (\*) by r cording required observed value or by ch ck (//) mark as required on attached test Data Sheets.

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- c. Tune the unit to the desired frequency with arri r insert drive for 1 Watt PMP output. Carrier presentation in center of analyser and peak adjust d to the 0 line with IF 20 db attenuator IN.
- #d. Set IF attenuator switch to 0 and place carrier Insert fully CCW, earrier drive at minimum. N t 1 v 1 of the remaining earrier on analyzer.

REQUIREMENT: Maximum carrier suppression must be at least 55 db below the test signal at 1 Watt PEP.

- \*3. Unwanted Sideband Rejection.
  - a. This test will be performed on the same frequenci s as the test in Paragraph 1 above and with the sam general PTE setup.
  - b. Connect 500 NAF to terminals 6 & 8 of E-101, USB Channel 1 adjusted for -6 db and unit tuned to desired frequency for 1 watt PRF. PTE sweep at 14 Ke adjust presentation of 500 N tone signal to 0 line on analyser with IF 20 db attempator in.
  - c. Set LSB to Channel 1. This will provide a dual 500 ~ tone signal presentation. Note position of the LSB 500 ~ ton signal and then place LSB to OFF.
  - #d. Set IF 20 db attenuator to 0 and read the level of th 500~ tome appearing as an unwanted signal in the LSB.
    - e. Repeat the above test for the LSB.

REQUIREMENT: Unwanted Sideband rejection shall b at least 60 db below 500~tome test signal for 1 Watt PEP, both USB and LSB.

- #4. 2nd Harmonic Suppression.
  - a. This test will be performed on frequency in the 4-8 mc band.
  - b. Set both LSB and USB OFF and tume the unit with arrier drive to 1 Watt PEP output at the 2nd Harmonic of th fundamental frequency to be measured. (Example:-If

NOTE: Indicate empletion and as plans f portion(s) f this test pres d d by () by recording required bs rved valu or by check () mark as required on attached t at Data Sheets.

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desired frequency to be measured is 4 MC, the unit would be tuned to 8 MC.)

- c. Adjust presentation on PTE with IF 20 db attenuator IN and signal peak on 0 line. Leave all PTE controls at their present settings.
- d. Tune the unit to the fundamental frequency at the same output as above.
- we. Set the IF 20 db attenuator to 0. The 2nd harmonic component will now be presented on the analyzer. It the level of this 2nd harmonic signal.

REQUIREMENT: The 2nd hermonic shall be at least 40 db below the level of the fundamental frequency at 1 Watt PEP output.

- \*5. Overall Frequency Response Test.
  - a. Setup AF generator to approximately the center frequency of the bandpass spectrum (3575) at .05V output connect d to terminals 6 and 8 of E-101., with shielded twisted pair, shield connected to 7 and 5. Monitor AF Generator output with Heath Kit AV-3 VTVM. Output should b constant.
  - b. With MF XTAL Switch in position 4, tune unit to 4 MC output frequency with USB OFF and carrier insert at minimum.
  - e. Connect VTVM across the 70 aload.
  - d. Advance LSB gain control to -6db and adjust RF Output for center scale reading on Ballantine.
  - the frequency from 250% to 7500 noting the maximum and minimum RF output readings across the 70.0.10ad.
  - f. Repeat above test for the USB with AF generator conn cted to terminals 10 and 12 on E-101 with the ground shi ld tied to terminals 11 and 14.

REQUIREMENT: The difference between the maximum and minimum readings in step 5 above shall not exceed 3 db for LSB and USB.

NOTE: Indicat compl tion and a eptan of portion(s) of this test pr ce ded by (\*) by r cording requir d obs rved value or by check (\*) mark as required on attached test Dat Sh ts.

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	APPRO	VED		TEST DATA	SHRET		
1.	(A-)	thru 8) 1	Proliminary	checks & t	ests complete	ed	(N)
2.	(B)	250 Kc 0		(1) Output V (2) Frequenc		Kc +	<b>v</b> .
3.	(G)	Modulato	r Tests		·		
		(2) Tuni:	ag T-125 & ng T-126 & ng T-127 co	USB Car. Ba	l. completed l. completed		
4.	(D)	Audio &	Sideband re	eversal			
		(2) Chan	nel l impu	ut completed t completed t completed			(v) (v)
5.	(E)	VOX Test	8				(√)
		(1) Gain (2) Sque	& KlOl rel	lay operation-to-talk che	n checked cked		(\(\c)
6.	(F)	_			•		(V)
		121 0	dam Delane	ent completed e completed tion at 2MC at 2MC	v.at 4. V.at 4. V.at 4.	MC	( )v.</td
7.	(G)	RF Circu	its Alignm	ent			1./\
		(7) Outi	SC and Mul put voltage ained as be	B Stropp (O	gnment comple Qload for fi	requenci s	(¥ )
	1.7	'5MC	٧.	TH MC	٧.	26 MC	v.
-			v.		v.	28 MC	٧.
	6 1	1C	٧.	18 MC	v.		
	8 1	1C	٧.	20 MC	٧.	32 MC	٧,
				22 MC			
	12 1	MC	٧.	24 MC	ν.		

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	(H) OVER	RALL T	ests & :	R <b>EQ</b> U	ir <b>em</b> e	nts			
•	BAND	F.	TESTS & REQUIREMENTS  MADE AT 1 WATT PEP OUTPUT						
	SW POS.	OUT (mcs)	a do name		MAX CAR SUP		UNWA SB.	NTED REJ	SECOND HARM
			USB	LSB	db			LSB	REJ.
	1.75- 4 mcs								
	4-8 mc								
	8-16 "								
	16-32 *								
				····					7777777
	Require	3/D at	: least	45 d t 1	with	.ow e	ither	tone	of a two to
	b. 1	Maximu 55 db Unwant 60 db Watt F 2nd He below	m Carri below to ed Side below 5 EP. urmonic two tor	he i band 600~ Reje	Suppresignal Rejections	ession at the state of the stat	n at 1 1 watt n at 1 signs least at 1	PEP. least l at 40 di watt	1 PEP.
	b. 1	Maximu 55 db Unwant 60 db Watt F 2nd He below	m Carribelow to side below 50 kg. rmonic two tor 1 Frequent 1 Freq	Rejected with	Suppresignal i Reje tone etics est si y Resp nin 3	ession at	n at 1 watt n at 1 signs least 1 from + 1 to 7	HO di watt	PEP.
	b. 1	Maximu 55 db Unwant 60 db Watt F 2nd He below	m Carribelow to side below 50 EP.  Irmonic two tor 10 Frequency flat  Max.	ibe in band of the transport of the transport with out;	Suppresignal i Reje tone etion etion st si y Resp hin 3	esionetic etic test nat ignal conse db (	n at 1 watt n at 1 signs least at 1 from	HO di watt	PEP.
MFG.	b. 1	Maximu 55 db Unwant 60 db Watt F 2nd He below Overal	m Carribelow to side below 50 EP.  Irmonic two tor 10 Frequence flat  Max.  Var	Rejected with cut;	Suppresignal I Reje tone etion etion st si y Resp nin 3 put	ession at ignal consed (1) (2)	n at 1 watt n at 1 signs least 1 from + 1 2 3	HO di watt	PEP.

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