DAYE 4.0 6/69 SHEET 1 OF 5		TMC SPECIFICATION NO. S 674	D
ARF COMPILED	CHECKED	TITLE:	<u>.l</u>
APPR	OVEDBE		

HAF-1 TEST PROCEDURE

DATE 5-10-62 SHEET 2 OF 55		TMC SPECIFICATION NO. S 674			
ARF COMPILED	CHECKED	TITLE: HAF-1 TEST PROCEDURE			
APPR	OVED				

I TEST EQUIPMENT

A. Counter, Berkeley Model 5500 (or equivalent)

B. AC VTVM, Ballantine Model 300H. (or equivalent)

C. Audio Generator, Hewlett Packard 200AB. C. (or equivalent)

D. Resistors ($\frac{1}{2}$ watt), 1.5K, 2.2K, 810, and 1K.

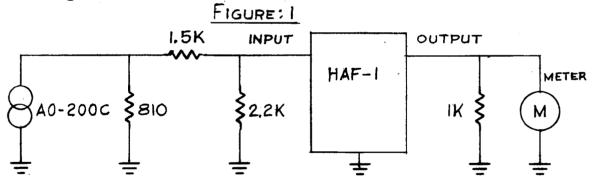
II PRELIMINARY

A. Check for mechanical defects, such as ganged switch alignment, loose couplings, etc.

B. Insure all knobs are located in their first position, (i. low-cut off in OUT position and high cut-off in .1KC position and their respective switch wafers are in the first position.

III TEST SET-UP

A. Connect audio input from the pad to the channel A audio input jack, J-7200; the load and metered output to J-7201 as in figure 1.



- B. Set all four front panel switches to OUT position, and the audio generator to 1KC at 1.0 volt (0db reference point) across the 1K load resistor.
- C. After setting the Odb reference point as in III B m asur the input voltage to the HAF-1. (After the Pad). Both voltages should be the same.
- D. Place the Channel A High Cut-Off switch to the 5KC position. There should be practically no change in voltage. Less than .2DB. This is the insertion loss. Record on test data sheet.

语:1 ¹1644的语:1 音符 - 3 (6) 1 语。

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NARF COMPILED	CHECKED	TITLE: HAF-1 TEST PROCEDURE	
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IV TESTING OF THE HIGH CUT-OFF FILTERS

- A. Place the Channel A High Cut-Off switch to the .1KC position. Starting at the first peak below the reference frequency (see chart), vary the audio signal generator through the switch frequency. Record the 3 db drop off point on the test data sheet. Should be within 30% of the indicated switch frequency. Continue variation of the audio signal generator to the 60 db drop off point to insure a continuous decline in attenuation of the higher frequencies beyond the 3 db drop off point.
- B. Repeat IV (A) with the remaining positions on this switch, then return to the OUT position.
- C. Repeat IV (A & B) with the Channel B High Cut-Off switch, but using the Channel B input and output jacks, J-7202 and J-7203, respectively.

V TESTING OF THE LOW CUT-OFF FILTERS

- A. Place the channel "B" low cut off switch to the .1KC position. Starting at the first peak above the reference frequency (see chart), which audio oscillator through the switch frequency. Record the 3db drop off point on the test data sheet. Should be within 30% of the indicated switch frequency. Continue variation of the audio signal generator to the 60 db drop off point to insure a continuous decline in attenuation of the lower frequencies beyond the 3 db drop off points.
- B. Repeat V (A) with the remaining positions on this switch, then return to the OUT position.
- C. Repeat V (A & B) with the Channel A Low Cut-Off switch, but using the Channel A input and output jacks, J-7200 and J-7201, respectively.

DATE 5/10/62 SHEET 34 OF 5		TMC SPECIFICATION NO. S 674				
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		MAN Man de Carr	AL MATERIEL CORPORMARONECK, N.Y.			
SERIAL NO MFG. NO	•	 				
	NICAL	ОК				
B. INSER	TION LOSS	LESS THAN	.2dbOK			
			the 3db drop-off pective positions.	points on the different		
SWITCH PO IN KCS	S		REFERENCE FREQUENCY KC	CHANNEL B HIGH CUT-OFF -3db POINT		
,1			. 070	CPS		
. 25		•	.100	:CPS		
. 5		aki sakaninin ini Adhirotepater (Alameet Puler) Assertimen	.300	∵ €? S		
1			.600	CPS		
⊘2.5			1.0	CPS		
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10	- The second of	AMERICA AND STREET	8.0	CPS		
		The second seconds		CHANNEL B LOW CUT#OFF -3db POINT		

.130

. 400

.600

1.4

3.5

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. 1

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2.5

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DATE 5/10/62 SHEET 54 OF 45		TMC SPECIFICATION NO. S 674			
ARF COMPILED	CHECKED	TITLE: HAF-1 TEST PROCEDURE			
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		HAF-1 TEST DATA SHEET #2			
SWITCH PO IN KCS)S	FREE NCY KC	CHANNEL A HIGH CUT-OFF -3db POINT -3		
.1		. 070	СРЅ		
. 25		.100	CPS		
. 5		.300	CPS		
1		.600	CPS		
2.5		11.0	CPS		
5		3.0	CPS		
10		8.0	CPS		
_			CHANNEL A LOW CUT-OFF -3db POINT		
.1		. 130	CPS		
. 25		. 400	CPS		
. 5		.600	CPS		
1	_	1.4	CPS		
2.5		3.5	CPS		
5	·	6.0	CPS		
10		12.0	CPS		
DATE					

REVISION SHEET		Γ .	THE TECHNICAL MATERIEL CORP. MAMARONECK NEW YORK S-674			
MODEL	HAF-	1		PROJECT NO.		
DATE	ŔEV.	PAGE	EMN#	DESCRIPTION	снк.	APP.
8/17/62	A	4	7109	Chg. Tolerance Cycle: from: +100,+200,+300,+500,+1000		
				to: +200,+300,+700,+1000,+2000	1)	
		5		On Channel "B" HIGH CUT OFF, Chg. Tolerance	1	
				from: +100,+200,+300,+500	$\overline{\ }$	11
				to: <u>+</u> 200, <u>+</u> 300, <u>+</u> 700, +1000	7	
				On Channel "B" LOW CUT OFF, Chg. Tolerance		
				from: <u>+</u> 100,+200,+300,+500,+200		
				to: +200,+300,+700,+1000,+2000		
10/15/	52 B	2	7477	Dele. Sentence; "It should be less than 1 db"	12	1/
		4&5		Dele. "Tolerance Cycles" column	VS	
5/25/64	С		11453	Revised Shts.2,3,4,5 per EMN		46
7/21/64		4,5	11869	Revised shts. 4,5 per EMN		4
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