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FINAL TEST DATA
ON
CR-17 FOUR BAND
COLLECTION RECEIVER

REPORT NO. 7630-F2

AUGUST 1960

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FINAL TEST DATA ON CR-17
FOUR BAND COLLECTION RECEIVERS

The CR-17 receivers, Serial numbers 1 and 2, were aligned and checked. They were then operated for about two weeks with occasional checks being made on sensitivity, gain, and bandwidths. At the end of this life test point by point measurements were made of the various bandwidths and sensitivities. Dynamic ranges and compression characteristics were also checked. The results of these measurements are presented in the following tables and curves.

REQUIRED RF INPUT LEVELS

FOR TANGENTIAL OUTPUT SIGNAL

CR-17 FOUR BAND COLLECTION RECEIVER

SERIAL 1

BAND 1
VIDEO GAIN
38-40 db

Frequency Mc	Signal Level For Tangential Output (uV)	
[redacted]	200	100
	11	6
	10.5	5
	9.5	5
	10	5
	10	5
	10	5
	10	5
	10	5
	9.5	5
	200	100

BAND 2
VIDEO GAIN
28-40 db

Frequency MC	Signal Level For Tangential Output (uV)	
[redacted]	135	70
	12	6
	12	6
	12	6
	13	7
	11	6
	11.5	6
	12	6
	12	6
	70	35

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BAND 3
VIDEO GAIN
38-40 db

Frequency MC	Signal Level For Tangential Output (uV)	
[redacted]	50	25
	14	7
	14	7
	15	7.5
	14	7
	14	7
	14	7
	12	6
	12	6
	60	30

BAND 4
VIDEO GAIN
38-40 db

Frequency MC	Signal Level For Tangential Output (uV)	
[redacted]	300	150
	18	9
	13.5	7
	13	7
	14	7
	15	8
	14	7
	15	8
	14	7
	32	16

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COMPRESSION CHARACTERISTICS

CR-17 FOUR BAND COLLECTION RECEIVER

SERIAL 1

BAND 1

Scope Gain For Const. Deflection mv/cm	Input Attenuation db
1	62
2	59
5	54
10	50.5
20	46.5
50	36
50	20

BAND 2

Scope Gain For Const. Deflection mv/cm	Input Attenuation db
1	62
2	60
5	56
10	52
20	48
50	37
50	20

BAND 3

1	62
2	59
5	54
10	50.5
20	46
50	35
50	20

BAND 4

1	62
2	59
5	55
10	51
20	47
50	34
50	20

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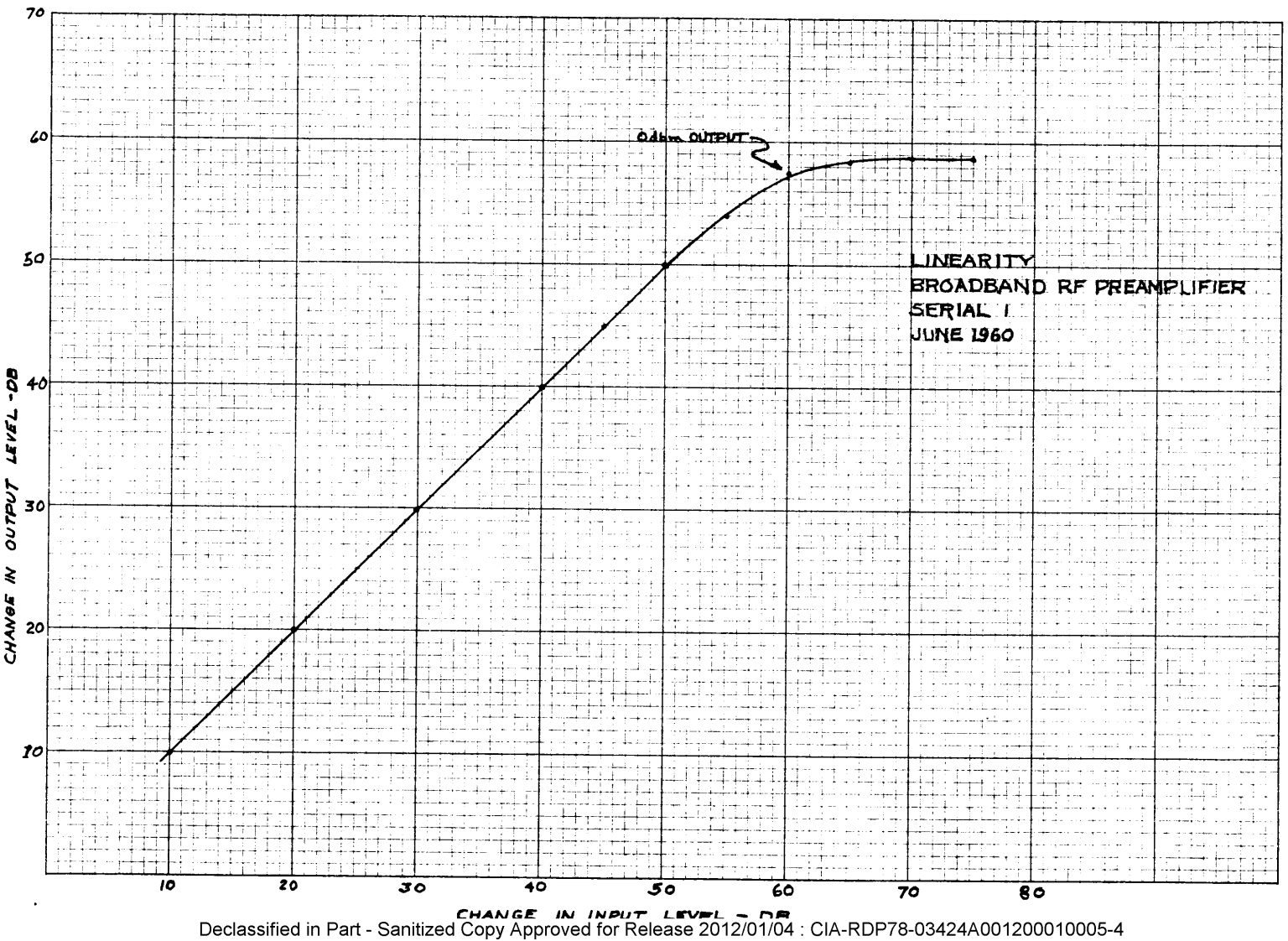

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REQUIRED RF INPUT LEVELS

FOR TANGENTIAL OUTPUT SIGNAL,

CR-17 FOUR BAND COLLECTION RECEIVER

SERIAL 2

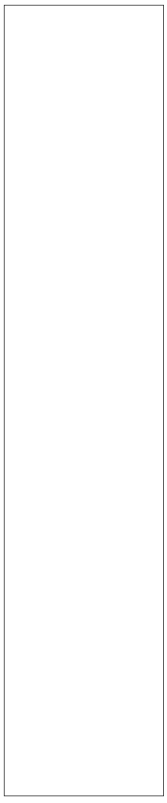
CH 1 VIDEO GAIN (38-40db)		CH 2 VIDEO GAIN (38-40 db)	
f	Signal Level For Tangential Output (uV)	f	Signal Level For Tangential Output (uV)
[redacted]	35	[redacted]	210
	28		
	6.5		9.5
	5.6		
	5.5		6
	5.3		
	6		6.8
	6		
	5		7
	5.5		
	6		6.2
	6.2		
	6		7.2
	6.2		
	6		6.2
	5.5		
	6		7
	5.5		
	20		6.3
	18		

STAT

STAT

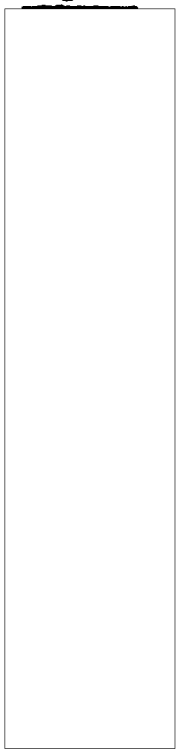
CH 3
VIDEO GAIN
(38-40 db)

f	Signal Level For Tangential Output (uV)
	150
	23
	6.8
	6.8
	7
	7
	7
	7
	6.8
	11
	70
	1K



CH 4
VIDEO GAIN
(38-40 db)

f	Signal Level For Tangential Output (uV)	
	100	
	7.5	
	5	STAT
	5	
	5.8	
	4.6	
	4.6	STAT
	4.6	
	4.6	
	32	



COMPRESSION CHARACTERISTICS

CR-17 FOUR BAND COLLECTION RECEIVER

SERIAL 2

BAND 1

Scope Gain For Const. Deflection mv/cm	Input Attenuation db
1	62
2	59
5	54
10	50.5
20	46.5
50	36
50	20

BAND 2

Scope Gain For Const. Deflection mv/cm	Input Attenuation db
1	62
2	60
5	56
10	52
20	48
50	37
50	20

BAND 3

1	62
2	59
5	54
10	50.5
20	46
50	35
50	20

BAND 4

1	62
2	59
5	55
10	51
20	47
50	34
50	20

DEFLECTION REFERENCE - 3.2 cm

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