

ENGINEERING SPECIFICATION		SECURITY NOTATION		SPEC NO. EB7516219		SEE PAGE INDEX FOR THIS SHEET REV LETTER																																																																	
				CAGE CODE 55939																																																																			
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REV LTR																																																																							
6. TEST PROCEDURES AND DATA TEST PROCEDURES AND DATA: TEST NO: 1 1.0 DESCRIPTION OF TEST: Output Power with 20W or 40W HPA 2.0 SPECIFICATIONS: 47 CFR 87.131 47 CFR 2.985a 47 CFR 2.985c 3.0 EQUIPMENT REQUIRED: <table><thead><tr><th></th><th>TYPE</th><th>MANUFACTURER</th><th>MODEL</th><th>SER. NO.</th></tr></thead><tbody><tr><td>A</td><td>High Power Amplifier</td><td>Honeywell</td><td>HP700</td><td>99090157</td></tr><tr><td></td><td></td><td></td><td>HP600</td><td>00061939</td></tr><tr><td>B</td><td>Satellite Data Unit</td><td>Honeywell</td><td>SD700</td><td>00070003</td></tr><tr><td>C</td><td>20 dB Attenuator</td><td>Narda</td><td>766-20</td><td>-</td></tr><tr><td>D</td><td>Spectrum Analyzer</td><td>Hewlett Packard</td><td>8563E</td><td>05409</td></tr><tr><td>E</td><td>Power Meter</td><td>Hewlett Packard</td><td>438A</td><td>55652</td></tr><tr><td>F</td><td>Directional Coupler</td><td>Narda</td><td>3002-20</td><td>02845-</td></tr><tr><td>G</td><td>Terminal (PC)</td><td>Dell w/ Procom</td><td>-</td><td>-</td></tr><tr><td>H</td><td>10 dB Attenuator</td><td>Narda</td><td>765-10</td><td>-</td></tr><tr><td>I</td><td>30 dB Attenuator</td><td>Narda.</td><td>766-30</td><td>-</td></tr><tr><td>J</td><td>Diplexer/LNA</td><td>Phase Atlantic</td><td>WGE-0090-00</td><td>COM9800396</td></tr><tr><td>K</td><td>Plotter</td><td>Hewlett Packard</td><td>7475A</td><td>21242</td></tr></tbody></table>								TYPE	MANUFACTURER	MODEL	SER. NO.	A	High Power Amplifier	Honeywell	HP700	99090157				HP600	00061939	B	Satellite Data Unit	Honeywell	SD700	00070003	C	20 dB Attenuator	Narda	766-20	-	D	Spectrum Analyzer	Hewlett Packard	8563E	05409	E	Power Meter	Hewlett Packard	438A	55652	F	Directional Coupler	Narda	3002-20	02845-	G	Terminal (PC)	Dell w/ Procom	-	-	H	10 dB Attenuator	Narda	765-10	-	I	30 dB Attenuator	Narda.	766-30	-	J	Diplexer/LNA	Phase Atlantic	WGE-0090-00	COM9800396	K	Plotter	Hewlett Packard	7475A	21242
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REV LTR	TEST PROCEDURES AND DATA:	TEST NO: 1
	4.0 BLOCK DIAGRAM OF TEST SETUP: <pre> graph LR G --- B B --- C C --- A A --- J J --- H H --- F F --- I F --- E I --- D D --- K </pre>	

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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 1 5.0 PROCEDURE: 1. Connect the equipment as shown in the block diagram in Section 4.0 of test number 1. 2. Using the terminal, set the SDU back-off attenuator to 0 dB. (This is the nominal back-off setting.) 3. Using the terminal, set the SDU to transmit a CW carrier on channel 1 at 1643.500 MHz. 4. For the 20W HPA, using the terminal set the HPA back-off attenuator to produce 11.2 dBm $\pm$ 0.5 dB level on the power meter. (This level corresponds to 20 W $\pm$ 2.2 W at the HPA RF connector.) Record this reading. 5. For the 40W HPA, using the terminal set the HPA back-off attenuator to produce 14.2 dBm $\pm$ 0.5 dB level on power meter. (This level corresponds to 40 W $\pm$ 5 W at the HPA RF connector.) Record this reading. 6. Using the terminal, set the channel frequency to 1626.500 MHz and record the power reading. 7. Using the terminal, set the channel frequency to 1660.500 MHz and record the power reading. 8. For the 20W HPA, repeat steps 3, 4, 6, and 7 for channel numbers two through eight. 9. For the 40W HPA, repeat steps 3, 5, 6, and 7 for channel numbers two through eight. NOTE 1: The total L-band loss between HPA TX port and the power meter is 31.8 dB. This includes the insertion loss of the diplexer, attenuator, directional coupler, and cable losses. NOTE 2: The primary input power voltage tolerance is 115V $\pm$ 10 percent and the frequency tolerance is 400 Hz $\pm$ 2 percent. 6.0 DATA <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th rowspan="2" style="width: 15%;">FREQUENCY [MHz]</th> <th colspan="8">Transmitted Power With 20W HPA (dBm)</th> </tr> <tr> <th>Ch 1</th> <th>Ch 2</th> <th>Ch 3</th> <th>Ch 4</th> <th>Ch 5</th> <th>Ch 6</th> <th>Ch 7</th> <th>Ch 8</th> </tr> <tr> <td>1626.500</td> <td>43.0</td> <td>43.0</td> <td>43.2</td> <td>43.0</td> <td>43.2</td> <td>43.2</td> <td>43.1</td> <td>43.1</td> </tr> <tr> <td>1643.500</td> <td>43.0</td> <td>43.0</td> <td>43.1</td> <td>43.1</td> <td>43.0</td> <td>43.1</td> <td>43.0</td> <td>43.1</td> </tr> <tr> <td>1660.500</td> <td>42.0</td> <td>42.1</td> <td>42.0</td> <td>42.1</td> <td>42.1</td> <td>42.0</td> <td>42.2</td> <td>42.1</td> </tr> </table> TEST PERFORMED BY: Pete Bailey DATE: 10/2/00	FREQUENCY [MHz]	Transmitted Power With 20W HPA (dBm)								Ch 1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7	Ch 8	1626.500	43.0	43.0	43.2	43.0	43.2	43.2	43.1	43.1	1643.500	43.0	43.0	43.1	43.1	43.0	43.1	43.0	43.1	1660.500	42.0	42.1	42.0	42.1	42.1	42.0	42.2	42.1
FREQUENCY [MHz]	Transmitted Power With 20W HPA (dBm)																																												
	Ch 1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7	Ch 8																																					
1626.500	43.0	43.0	43.2	43.0	43.2	43.2	43.1	43.1																																					
1643.500	43.0	43.0	43.1	43.1	43.0	43.1	43.0	43.1																																					
1660.500	42.0	42.1	42.0	42.1	42.1	42.0	42.2	42.1																																					

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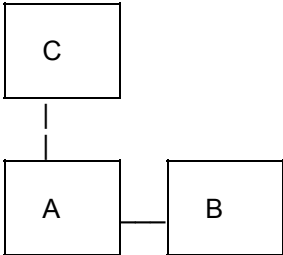
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TEST NO: 1

DATE: 10/2/00

5200-032 (REV 970213 BCAS ASF5900/ENG SPEC.DOT) (NEW 1/1/99-OFC97-DATA SERVICES) HONEYWELL INTERNATIONAL INC.

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	TEST PROCEDURES AND DATA: TEST NO: 2			
	1.0 DESCRIPTION OF TEST: Frequency Stability (Temperature)			
	2.0 SPECIFICATIONS: 47 CFR 87.133			
	47 CFR 2.995a			
	3.0 EQUIPMENT REQUIRED:			
	<u>TYPE</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SER. NO.</u>
	A Satellite Data Unit	Honeywell	SD700	0007003
	B Microwave Counter	Hewlett Packard	5361B	D401084
	C Terminal (PC)	Dell w/Procom	-	
	4.0 BLOCK DIAGRAM OF TEST SETUP:			
	 <pre>graph TD; C[C] --- A[A]; A --- B[B];</pre>			
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		TEST PROCEDURES AND DATA: TEST NO: 2				
		5.0 PROCEDURE: 1. Connect the equipment as shown in the block diagram in Section 4.0 of test number 2. 2. Using the terminal, set the SDU back-off attenuator to 0 dB. (This is the nominal back-off setting.) 3. Using the terminal, set the SDU to transmit a CW carrier on channel 1 at 1643.5 MHz. 4. Measure the output frequency. 5. Repeat steps 3 and 4 with 1626.5 and 1660.5 MHz frequencies selected. 6. The output frequency is to be measured at -55C, -50C, and at 10 degree increments from -50C to +70C. NOTE: Since frequency stability is totally dependent upon the SDU, no HPA was used for this measurement.				
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TEST PROCEDURES AND DATA: TEST NO: 2																																																																		
6.0 DATA																																																																		
<table><tr><th>TEMP [°C]</th><th>MEASURED FREQUENCY WITH 1626.5 MHz SELECTED</th><th>MEASURED FREQUENCY WITH 1643.5 MHz SELECTED</th><th>MEASURED FREQUENCY WITH 1660.5 MHz SELECTED</th></tr><tr><td>-55</td><td>1626500015 Hz</td><td>1643500018 Hz</td><td>1660500021 Hz</td></tr><tr><td>-50</td><td>1626500014 Hz</td><td>1643500018 Hz</td><td>1660500021 Hz</td></tr><tr><td>-40</td><td>1626500014 Hz</td><td>1643500018 Hz</td><td>1660500021 Hz</td></tr><tr><td>-30</td><td>1626500013 Hz</td><td>1643500017 Hz</td><td>1660500021 Hz</td></tr><tr><td>-20</td><td>1626500016 Hz</td><td>1643500018 Hz</td><td>1660500022 Hz</td></tr><tr><td>-10</td><td>1626500015 Hz</td><td>1643500018 Hz</td><td>1660500022 Hz</td></tr><tr><td>0</td><td>1626500015 Hz</td><td>1643500018 Hz</td><td>1660500022 Hz</td></tr><tr><td>+10</td><td>1626500014 Hz</td><td>1643500018 Hz</td><td>1660500021 Hz</td></tr><tr><td>+20</td><td>1626500014 Hz</td><td>1643500018 Hz</td><td>1660500021 Hz</td></tr><tr><td>+30</td><td>1626500014 Hz</td><td>1643500018 Hz</td><td>1660500022 Hz</td></tr><tr><td>+40</td><td>1626500014 Hz</td><td>1643500018 Hz</td><td>1660500022 Hz</td></tr><tr><td>+50</td><td>1626500013 Hz</td><td>1643500017 Hz</td><td>1660500020 Hz</td></tr><tr><td>+60</td><td>1626500013 Hz</td><td>1643500016 Hz</td><td>1660500020 Hz</td></tr><tr><td>+70</td><td>1626500010 Hz</td><td>1643500013 Hz</td><td>1660500016 Hz</td></tr></table>							TEMP [°C]	MEASURED FREQUENCY WITH 1626.5 MHz SELECTED	MEASURED FREQUENCY WITH 1643.5 MHz SELECTED	MEASURED FREQUENCY WITH 1660.5 MHz SELECTED	-55	1626500015 Hz	1643500018 Hz	1660500021 Hz	-50	1626500014 Hz	1643500018 Hz	1660500021 Hz	-40	1626500014 Hz	1643500018 Hz	1660500021 Hz	-30	1626500013 Hz	1643500017 Hz	1660500021 Hz	-20	1626500016 Hz	1643500018 Hz	1660500022 Hz	-10	1626500015 Hz	1643500018 Hz	1660500022 Hz	0	1626500015 Hz	1643500018 Hz	1660500022 Hz	+10	1626500014 Hz	1643500018 Hz	1660500021 Hz	+20	1626500014 Hz	1643500018 Hz	1660500021 Hz	+30	1626500014 Hz	1643500018 Hz	1660500022 Hz	+40	1626500014 Hz	1643500018 Hz	1660500022 Hz	+50	1626500013 Hz	1643500017 Hz	1660500020 Hz	+60	1626500013 Hz	1643500016 Hz	1660500020 Hz	+70	1626500010 Hz	1643500013 Hz	1660500016 Hz
TEMP [°C]	MEASURED FREQUENCY WITH 1626.5 MHz SELECTED	MEASURED FREQUENCY WITH 1643.5 MHz SELECTED	MEASURED FREQUENCY WITH 1660.5 MHz SELECTED																																																															
-55	1626500015 Hz	1643500018 Hz	1660500021 Hz																																																															
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+70	1626500010 Hz	1643500013 Hz	1660500016 Hz																																																															
Maximum deviation: 12 Hz Acceptance limit: 320 Hz																																																																		
TEST PERFORMED BY: Pete Bailey DATE: 10/2/00																																																																		
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 3			
	1.0 DESCRIPTION OF TEST: Frequency Stability (input power)			
	2.0 SPECIFICATIONS: 47 CFR 87.133			
	47 CFR 2.995a			
	3.0 EQUIPMENT REQUIRED:			
	<u>TYPE</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SER. NO.</u>
	A Satellite Data Unit	Honeywell	SD700	0007003
	B Microwave Counter	Hewlett Packard	5361B	D401084
	C Power Supply	California Instruments	1501TPM	L38383
	D Terminal (PC)	Dell w/Procom	-	
	4.0 BLOCK DIAGRAM OF TEST SETUP:			
	D A C B			
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REV LTR							
TEST PROCEDURES AND DATA:		TEST NO: 3					
5.0 PROCEDURE: Frequency versus input power voltage and frequency:							
1. Connect the equipment as shown in the block diagram in Section 4.0 of test number 3.							
2. Using the terminal, set the SDU back-off attenuator to 0 dB. (This is the nominal back-off setting.)							
3. Using the terminal, set the SDU to transmit a CW carrier on channel 1 at 1643.5 MHz.							
4. Measure the output frequency with the input voltages and frequencies shown below.							
5. Repeat the procedure for channels two through eight.							
6.0 DATA							
POWER SUPPLY VOLT. [V _{RMS}]		POWER SUPPLY FREQ. [Hz]		Transmit Frequency (Hz)			
				Channel 1	Channel 2	Channel 3	Channel 4
103.5		392		1643500019	1643500019	1643500019	1643500019
103.5		408		1643500019	1643500019	1643500019	1643500019
126.5		392		1643500019	1643500019	1643500019	1643500019
126.5		408		1643500019	1643500019	1643500019	1643500019
POWER SUPPLY VOLT. [V _{RMS}]		POWER SUPPLY FREQ. [Hz]		Transmit Frequency (Hz)			
				Channel 5	Channel 6	Channel 7	Channel 8
103.5		392		1643500019	1643500019	1643500019	1643500019
103.5		408		1643500019	1643500019	1643500019	1643500019
126.5		392		1643500019	1643500019	1643500019	1643500019
126.5		408		1643500019	1643500019	1643500019	1643500019
TEST PERFORMED BY: Pete Bailey				DATE: 10/5/00			
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REV LTR							
	TEST PROCEDURES AND DATA: TEST NO: 4						
	1.0 DESCRIPTION OF TEST: Occupied Bandwidth						
	2.0 SPECIFICATIONS: 47 CFR 87.1337						
	47 CFR 2.989						
	3.0 EQUIPMENT REQUIRED:						
	<u>TYPE</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SER. NO.</u>			
	A High Power Amplifier	Honeywell	HP700	99090157			
			HP600	00061939			
	B Satellite Data Unit	Honeywell	SD700	00070003			
	C 20 dB Attenuator	Narda	766-20	-			
	D Spectrum Analyzer	Hewlett Packard	8563E	05409			
	E Power Meter	Hewlett Packard	438A	55652			
	F Directional Coupler	Narda	3002-20	02845-			
	G Terminal (PC)	Dell w/ Procom	-	-			
	H 10 dB Attenuator	Narda	765-10	-			
	I 30 dB Attenuator	Narda.	766-30	-			
	J Diplexer/LNA	Phase Atlantic	WGE-0090-00	COM9800396			
	K Plotter	Hewlett Packard	7475A	21242			
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REV LTR	TEST PROCEDURES AND DATA: _____	TEST NO: 4
	4.0 BLOCK DIAGRAM OF TEST SETUP: <pre> graph LR G[G] --- B[B] B --- C[C] C --- A[A] A --- J[J] J --- H[H] H --- F[F] F --- I[I] F --- E[E] I --- D[D] D --- K[K] </pre>	

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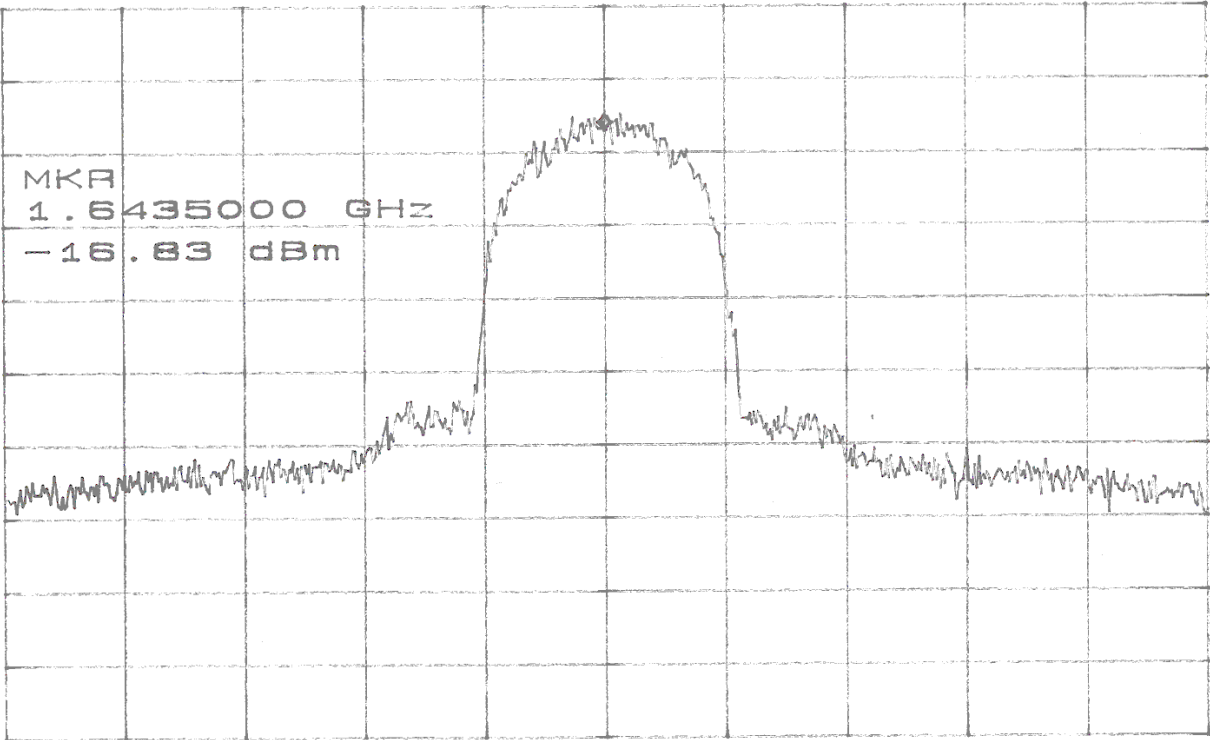
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 4 5.0 PROCEDURE: 1. Set the spectrum analyzer as follows for the various channel types. <table border="1" style="margin: 10px auto; width: 80%; border-collapse: collapse; text-align: center;"> <tr> <th style="padding: 5px;">Channel Type</th> <th style="padding: 5px;">Span</th> <th style="padding: 5px;">RBW</th> <th style="padding: 5px;">VBW</th> <th style="padding: 5px;">Vertical Res</th> </tr> <tr> <td style="padding: 5px;">C21k</td> <td style="padding: 5px;">100 kHz</td> <td style="padding: 5px;">300 Hz</td> <td style="padding: 5px;">300 Hz</td> <td style="padding: 5px;">10 dB/</td> </tr> <tr> <td style="padding: 5px;">P600</td> <td style="padding: 5px;">6 kHz</td> <td style="padding: 5px;">30 Hz</td> <td style="padding: 5px;">300 Hz</td> <td style="padding: 5px;">10 dB/</td> </tr> <tr> <td style="padding: 5px;">P1200</td> <td style="padding: 5px;">10 kHz</td> <td style="padding: 5px;">30 Hz</td> <td style="padding: 5px;">300 Hz</td> <td style="padding: 5px;">10 dB/</td> </tr> <tr> <td style="padding: 5px;">P10.5k</td> <td style="padding: 5px;">50 kHz</td> <td style="padding: 5px;">300 Hz</td> <td style="padding: 5px;">300 Hz</td> <td style="padding: 5px;">10 dB/</td> </tr> <tr> <td style="padding: 5px;">C8.4k</td> <td style="padding: 5px;">50 kHz</td> <td style="padding: 5px;">300 Hz</td> <td style="padding: 5px;">300 Hz</td> <td style="padding: 5px;">10 dB/</td> </tr> </table> 2. Connect the equipment a shown in the block diagram in Section 4 of test number 4. 3. Using the terminal set the SDU back-off attenuator to 0 dB. (This is the nominal back-off setting.) 4. Using the terminal set the SDU to transmit a CW carrier on channel 1 at 1643.5 MHz. 5. For the 20W HPA, using the terminal, set the HPA back-off attenuator to produce 11.2 dBm on the power meter. This level equals 20 W at the HPA RF antenna port. 6. For the 40W HPA, using the terminal, set the HPA back-off attenuator to produce 14.2 dBm on the power meter. This level equals 40 W at the HPA RF antenna port. 7. Using the terminal, set the SDU to transmit at 1643.5 MHz for each of the channel types listed in the table above. The C21k channel will yield the widest bandwidth in the transmit spectrum due to the highest bit rate. 8. Capture the spectrum analyzer display for each channel type and with numerical analysis determine the energy distribution. 9. The results of the analysis are shown on the page following the spectrum of the signal. The frequency column indicates the frequency distance from the spectrum center. The Pwr (lower) column lists the amplitude in the lower band (i.e. below the center), while the Pwr (upper) is for the upper band. The Pwr (total) column shows the cumulative power, and the Pwr (in band) column shows the power distribution in percent for the total power in the frequency band. 10. The first five spectrum analyzer plots and tabulated data were taken with the 20W HPA in place, the second five with the 40W HPA in place.	Channel Type	Span	RBW	VBW	Vertical Res	C21k	100 kHz	300 Hz	300 Hz	10 dB/	P600	6 kHz	30 Hz	300 Hz	10 dB/	P1200	10 kHz	30 Hz	300 Hz	10 dB/	P10.5k	50 kHz	300 Hz	300 Hz	10 dB/	C8.4k	50 kHz	300 Hz	300 Hz	10 dB/
Channel Type	Span	RBW	VBW	Vertical Res																											
C21k	100 kHz	300 Hz	300 Hz	10 dB/																											
P600	6 kHz	30 Hz	300 Hz	10 dB/																											
P1200	10 kHz	30 Hz	300 Hz	10 dB/																											
P10.5k	50 kHz	300 Hz	300 Hz	10 dB/																											
C8.4k	50 kHz	300 Hz	300 Hz	10 dB/																											

Honeywell	AW/CRITICAL NOTATION		
	SECURITY NOTATION	SUPPLEMENTS	23 PAGE

ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO. EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER	
		CAGE CODE 55939		REV LTR
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			
REV LTR				
	TEST PROCEDURES AND DATA: TEST NO: 4			
	Spectrum #1: Channel 1, C-Channel, 21 kbps, 21.0 W			
	Spectrum #2: Channel 1, P-Channel, 600 bps, 21.2 W			
	Spectrum #3: Channel 1, P-Channel, 1.2 kbps, 21.4 W			
	Spectrum #4: Channel 1, P-Channel, 10.5 kbps, 21.6 W			
	Spectrum #5: Channel 1, C-Channel, 8.4 kbps, 21.2 W			
	Spectrum #6: Channel 1, C-Channel, 21 kbps, 44.7 W			
	Spectrum #7: Channel 1, P-Channel, 600 bps, 43.7 W			
	Spectrum #8: Channel 1, P-Channel, 1.2 kbps, 44.3 W			
	Spectrum #9: Channel 1, P-Channel, 10.5 kbps, 45.5 W			
	Spectrum #10: Channel 1, C-Channel, 8.4 kbps, 45.0 W			
	Frequency for all conditions: 1643.5			
	6.0 DATA			
	The data are presented on the following pages of this test:			
	Limit: 25 kHz			
Honeywell	AW/CRITICAL NOTATION			
	SECURITY NOTATION	SUPPLEMENTS	24 PAGE	

ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO.	EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER
		CAGE CODE	55939	
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA:	TEST NO: 4
	ATTEN 10dB VAVG 13 MKR -16.83dBm RL 0dBm 10dB/ 1.6435000GHz D MKR 1.6435000 GHz -16.83 dBm  CENTER 1.6435000GHz SPAN 100.0KHz *RBW 300Hz VBW 300Hz SWP 2.80sec	
	Figure 6-1. Channel 1, C-Channel, 21 kbps, 21 W	

Honeywell	AW/CRITICAL NOTATION		
	SECURITY NOTATION	SUPPLEMENTS	25 PAGE

ENGINEERING SPECIFICATION		SECURITY NOTATION		SPEC NO. EB7516219		SEE PAGE INDEX FOR THIS SHEET REV LETTER																																																																																																																																																																																											
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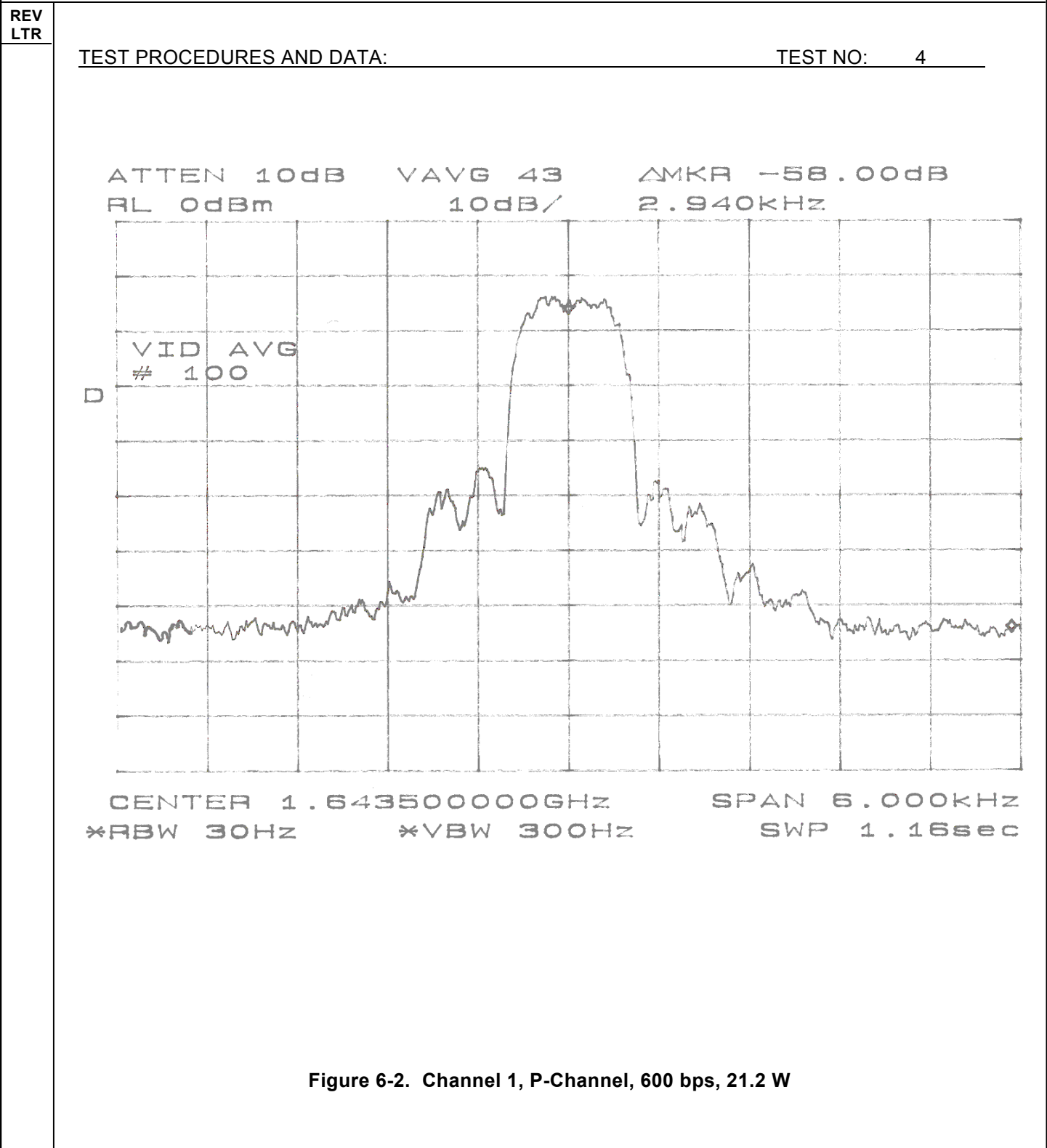


Figure 6-2. Channel 1, P-Channel, 600 bps, 21.2 W

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480	-50.7	-54.4	0.0000	0.0000	0.1667	99.96																																																																																																																																																																																											
600	-46.9	-47.7	0.0000	0.0000	0.1668	99.98																																																																																																																																																																																											
720	-57.4	-57.0	0.0000	0.0000	0.1668	99.98																																																																																																																																																																																											
840	-49.0	-51.2	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
960	-57.5	-54.2	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
1080	-68.4	-68.9	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
1200	-66.5	-63.4	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
1320	-72.2	-70.0	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
1440	-70.4	-66.9	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
1560	-71.5	-69.0	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
1680	-72.5	-73.2	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
1800	-74.2	-74.0	0.0000	0.0000	0.1668	100.00																																																																																																																																																																																											
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ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO.	EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER
		CAGE CODE	55939	
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA: TEST NO: 4 ATTEN 10dB VAVG 34 MKR -17.33dBm RL 0dBm 10dB/ 1.64350000GHZ MKR 1.64350000 GHZ -17.33 dBm CENTER 1.64350000GHZ SPAN 10.00kHz *RBW 30Hz *VBW 300Hz SWP 1.92sec
	Figure 6-3. Channel 1, P-Channel, 1200 bps, 21.4 W

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	SECURITY NOTATION	SUPPLEMENTS	29 PAGE

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CODE

55939

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REV LTR

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REV
LTR

TEST PROCEDURES AND DATA:

TEST NO: 4

Occupied Bandwidth						
Date	10-2-00				20W HPA	
Tester	Bailey				HPA = 21.4W out	
					Chan 1 = P1200	
Freq (+/- Hz)	Pwr (lower) (dBm)	Pwr (upper) (dBm)	Pwr (lower) (mw)	Pwr (upper) (mw)	Pwr (total) (mw)	Pwr (in band) (%)
0	-17.8	N/A	0.0166	0.0000	0.0166	14.06
200	-16.8	-17.5	0.0209	0.0178	0.0553	46.82
400	-17.6	-17.1	0.0174	0.0195	0.0921	78.06
600	-19.8	-18.3	0.0105	0.0148	0.1174	99.47
800	-36.1	-34.6	0.0002	0.0003	0.1180	99.97
1000	-53.0	-59.3	0.0000	0.0000	0.1180	99.97
1200	-50.3	-55.5	0.0000	0.0000	0.1180	99.98
1400	-55.8	-63.6	0.0000	0.0000	0.1180	99.99
1600	-52.0	-59.5	0.0000	0.0000	0.1180	99.99
1800	-52.5	-56.8	0.0000	0.0000	0.1180	100.00
2000	-66.2	-66.8	0.0000	0.0000	0.1180	100.00
2200	-72.5	-69.0	0.0000	0.0000	0.1180	100.00
2400	-72.8	-66.1	0.0000	0.0000	0.1180	100.00
2600	-72.0	-72.0	0.0000	0.0000	0.1180	100.00
2800	-76.3	-71.1	0.0000	0.0000	0.1180	100.00
3000	-74.0	-70.1	0.0000	0.0000	0.1180	100.00

TEST PERFORMED BY: Pete Bailey

DATE: 10/2/00

Honeywell

AW/CRITICAL NOTATION

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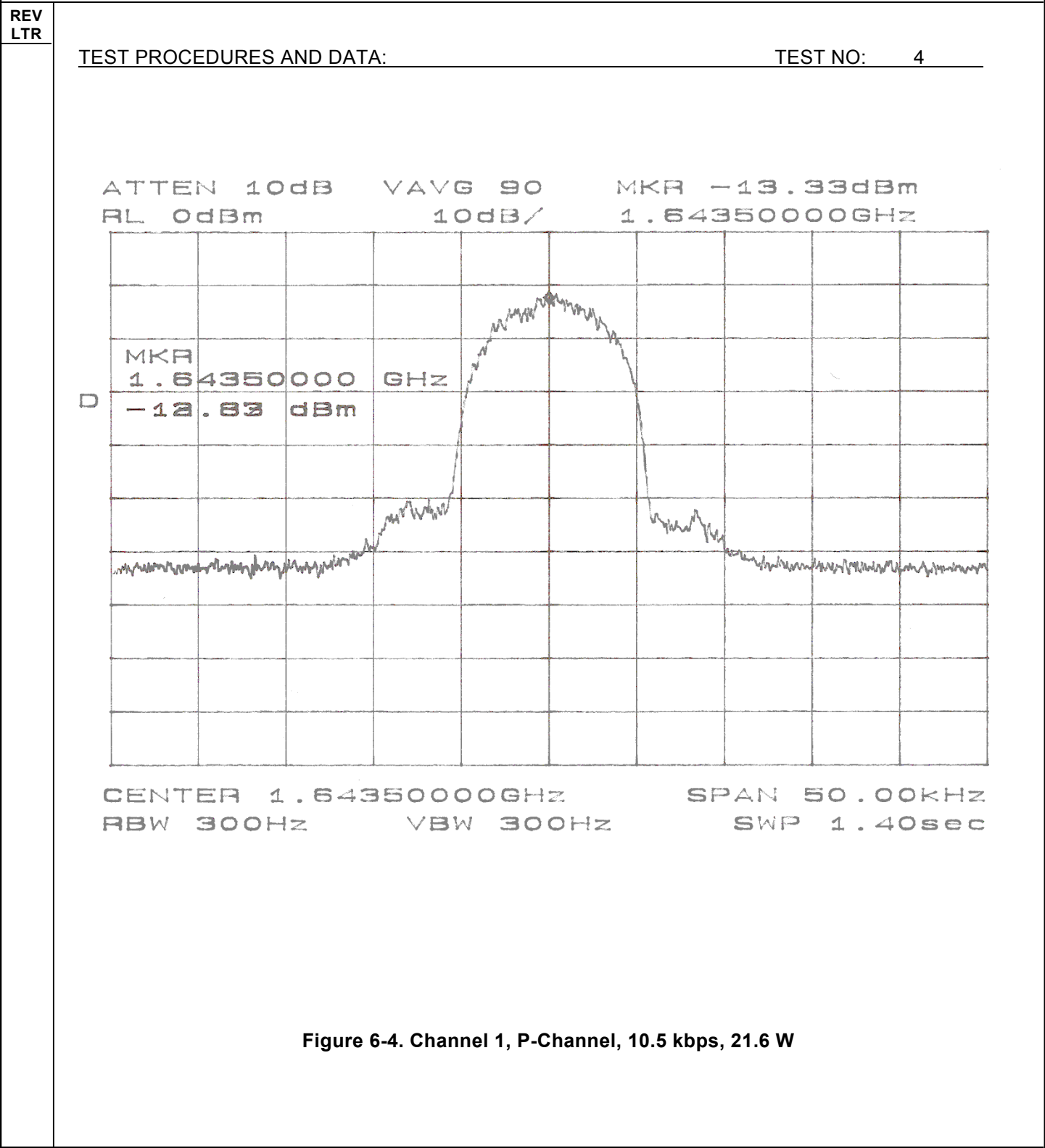


Figure 6-4. Channel 1, P-Channel, 10.5 kbps, 21.6 W

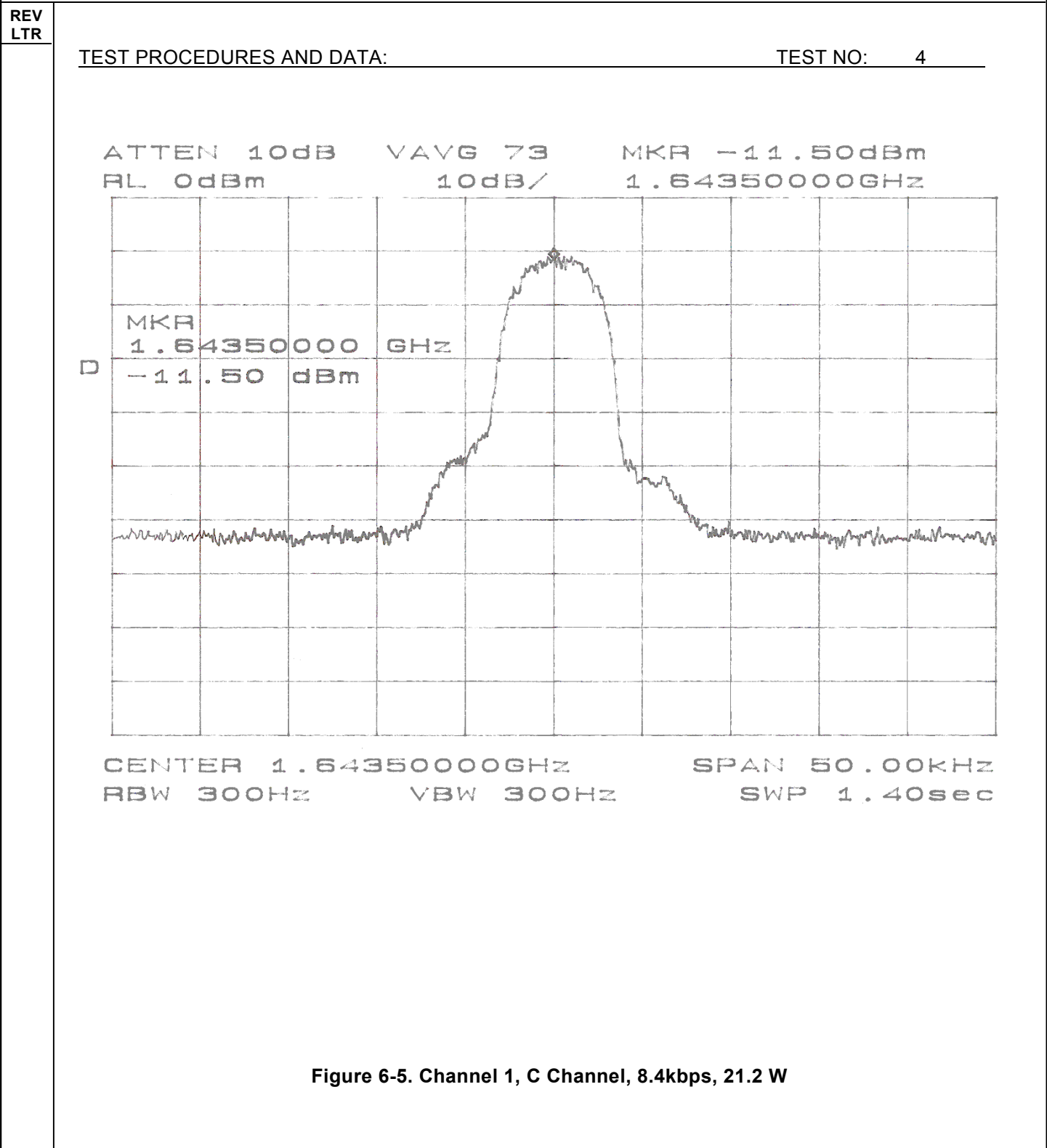
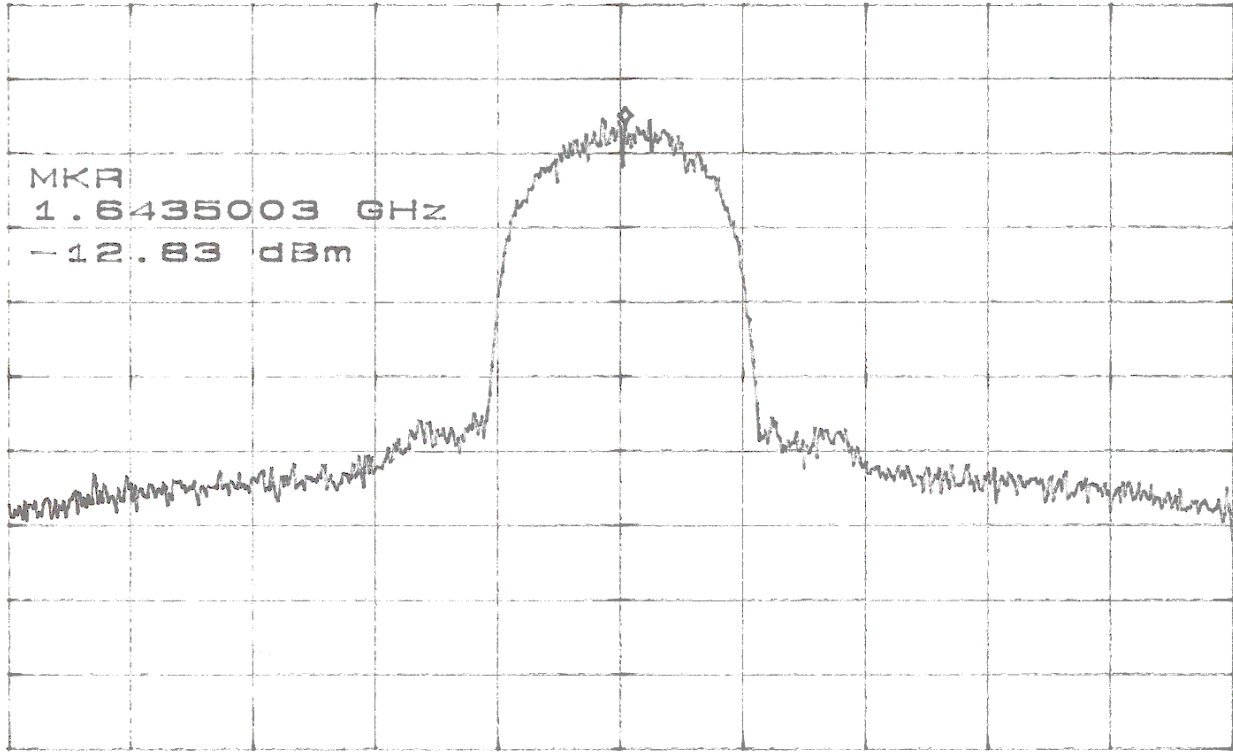


Figure 6-5. Channel 1, C Channel, 8.4kbps, 21.2 W

ENGINEERING SPECIFICATION		SECURITY NOTATION		SPEC NO. EB7516219		SEE PAGE INDEX FOR THIS SHEET REV LETTER																																																																																																																																																																		
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		<table><tr><td colspan="2">Occupied Bandwidth</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Date</td><td>10-2-00</td><td></td><td></td><td></td><td>20W HPA</td><td></td></tr><tr><td>Tester</td><td>Bailey</td><td></td><td></td><td></td><td>HPA = 21.2W out</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Chan 1 = C8.4k</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Freq (+/- Hz)</td><td>Pwr (lower) (dBm)</td><td>Pwr (upper) (dBm)</td><td>Pwr (lower) (mw)</td><td>Pwr (upper) (mw)</td><td>Pwr (total) (mw)</td><td>Pwr (in band) (%)</td></tr><tr><td>0</td><td>-12.7</td><td>N/A</td><td>0.0537</td><td>0.0000</td><td>0.0537</td><td>22.38</td></tr><tr><td>1000</td><td>-12.0</td><td>-12.2</td><td>0.0631</td><td>0.0603</td><td>0.1771</td><td>73.79</td></tr><tr><td>2000</td><td>-17.7</td><td>-14.2</td><td>0.0170</td><td>0.0380</td><td>0.2321</td><td>96.71</td></tr><tr><td>3000</td><td>-26.9</td><td>-22.4</td><td>0.0020</td><td>0.0058</td><td>0.2399</td><td>99.96</td></tr><tr><td>4000</td><td>-43.7</td><td>-49.0</td><td>0.0000</td><td>0.0000</td><td>0.2399</td><td>99.98</td></tr><tr><td>5000</td><td>-49.0</td><td>-52.7</td><td>0.0000</td><td>0.0000</td><td>0.2399</td><td>99.99</td></tr><tr><td>6000</td><td>-50.2</td><td>-53.0</td><td>0.0000</td><td>0.0000</td><td>0.2399</td><td>99.99</td></tr><tr><td>7000</td><td>-54.2</td><td>-56.5</td><td>0.0000</td><td>0.0000</td><td>0.2399</td><td>100.00</td></tr><tr><td>8000</td><td>-61.4</td><td>-61.9</td><td>0.0000</td><td>0.0000</td><td>0.2399</td><td>100.00</td></tr><tr><td>9000</td><td>-62.0</td><td>-61.5</td><td>0.0000</td><td>0.0000</td><td>0.2399</td><td>100.00</td></tr><tr><td>10000</td><td>-62.9</td><td>-62.7</td><td>0.0000</td><td>0.0000</td><td>0.2399</td><td>100.00</td></tr><tr><td>11000</td><td>-64.0</td><td>-63.2</td><td>0.0000</td><td>0.0000</td><td>0.2400</td><td>100.00</td></tr><tr><td>12000</td><td>-61.9</td><td>-62.9</td><td>0.0000</td><td>0.0000</td><td>0.2400</td><td>100.00</td></tr><tr><td>13000</td><td>-62.5</td><td>-63.2</td><td>0.0000</td><td>0.0000</td><td>0.2400</td><td>100.00</td></tr><tr><td>14000</td><td>-62.4</td><td>-62.9</td><td>0.0000</td><td>0.0000</td><td>0.2400</td><td>100.00</td></tr><tr><td>15000</td><td>-63.3</td><td>-62.5</td><td>0.0000</td><td>0.0000</td><td>0.2400</td><td>100.00</td></tr></table>						Occupied Bandwidth							Date	10-2-00				20W HPA		Tester	Bailey				HPA = 21.2W out							Chan 1 = C8.4k																Freq (+/- Hz)	Pwr (lower) (dBm)	Pwr (upper) (dBm)	Pwr (lower) (mw)	Pwr (upper) (mw)	Pwr (total) (mw)	Pwr (in band) (%)	0	-12.7	N/A	0.0537	0.0000	0.0537	22.38	1000	-12.0	-12.2	0.0631	0.0603	0.1771	73.79	2000	-17.7	-14.2	0.0170	0.0380	0.2321	96.71	3000	-26.9	-22.4	0.0020	0.0058	0.2399	99.96	4000	-43.7	-49.0	0.0000	0.0000	0.2399	99.98	5000	-49.0	-52.7	0.0000	0.0000	0.2399	99.99	6000	-50.2	-53.0	0.0000	0.0000	0.2399	99.99	7000	-54.2	-56.5	0.0000	0.0000	0.2399	100.00	8000	-61.4	-61.9	0.0000	0.0000	0.2399	100.00	9000	-62.0	-61.5	0.0000	0.0000	0.2399	100.00	10000	-62.9	-62.7	0.0000	0.0000	0.2399	100.00	11000	-64.0	-63.2	0.0000	0.0000	0.2400	100.00	12000	-61.9	-62.9	0.0000	0.0000	0.2400	100.00	13000	-62.5	-63.2	0.0000	0.0000	0.2400	100.00	14000	-62.4	-62.9	0.0000	0.0000	0.2400	100.00	15000	-63.3	-62.5	0.0000	0.0000	0.2400	100.00
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14000	-62.4	-62.9	0.0000	0.0000	0.2400	100.00																																																																																																																																																																		
15000	-63.3	-62.5	0.0000	0.0000	0.2400	100.00																																																																																																																																																																		
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		CAGE CODE 55939	REV LTR
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.		

REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 4	
ATTEN 20dB VAVG 19 MKR -12.83dBm RL 3.0dBm 10dB/ 1.6435003GHz D MKR 1.6435003 GHz -12.83 dBm  CENTER 1.6435000GHz SPAN 100.0kHz *RBW 300Hz *VBW 300Hz SWP 2.80sec				
Figure 6-6. Channel 1, C Channel, 21kbps, 44.6 W				

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LTR

TEST PROCEDURES AND DATA:

TEST NO: 4

Occupied Bandwidth						
Date	10-4-00				40W HPA	
Tester	Bailey				HPA = 44.6W out	
					Chan 1 = C21k	
Freq (+/- kHz)	Pwr (lower) (dBm)	Pwr (upper) (dBm)	Pwr (lower) (mw)	Pwr (upper) (mw)	Pwr (total) (mw)	Pwr (in band) (%)
0	-13.0	N/A	0.0501	0.0000	0.0501	9.58
1	-13.0	-13.2	0.0501	0.0479	0.1481	28.30
2	-13.8	-12.7	0.0417	0.0537	0.2435	46.53
3	-14.0	-14.2	0.0398	0.0380	0.3213	61.40
4	-15.2	-15.0	0.0302	0.0316	0.3831	73.22
5	-15.2	-16.3	0.0302	0.0234	0.4368	83.47
6	-17.7	-17.3	0.0170	0.0186	0.4724	90.27
7	-18.3	-19.3	0.0148	0.0117	0.4989	95.34
8	-20.2	-21.0	0.0095	0.0079	0.5164	98.68
9	-24.0	-27.2	0.0040	0.0019	0.5223	99.81
10	-31.7	-35.8	0.0007	0.0003	0.5232	99.99
11	-48.2	-52.0	0.0000	0.0000	0.5233	99.99
12	-53.8	-51.5	0.0000	0.0000	0.5233	100.00
13	-54.0	-54.0	0.0000	0.0000	0.5233	100.00
14	-52.5	-53.2	0.0000	0.0000	0.5233	100.00
15	-54.5	-54.0	0.0000	0.0000	0.5233	100.00

TEST PERFORMED BY: Pete Bailey

DATE: 10/2/00

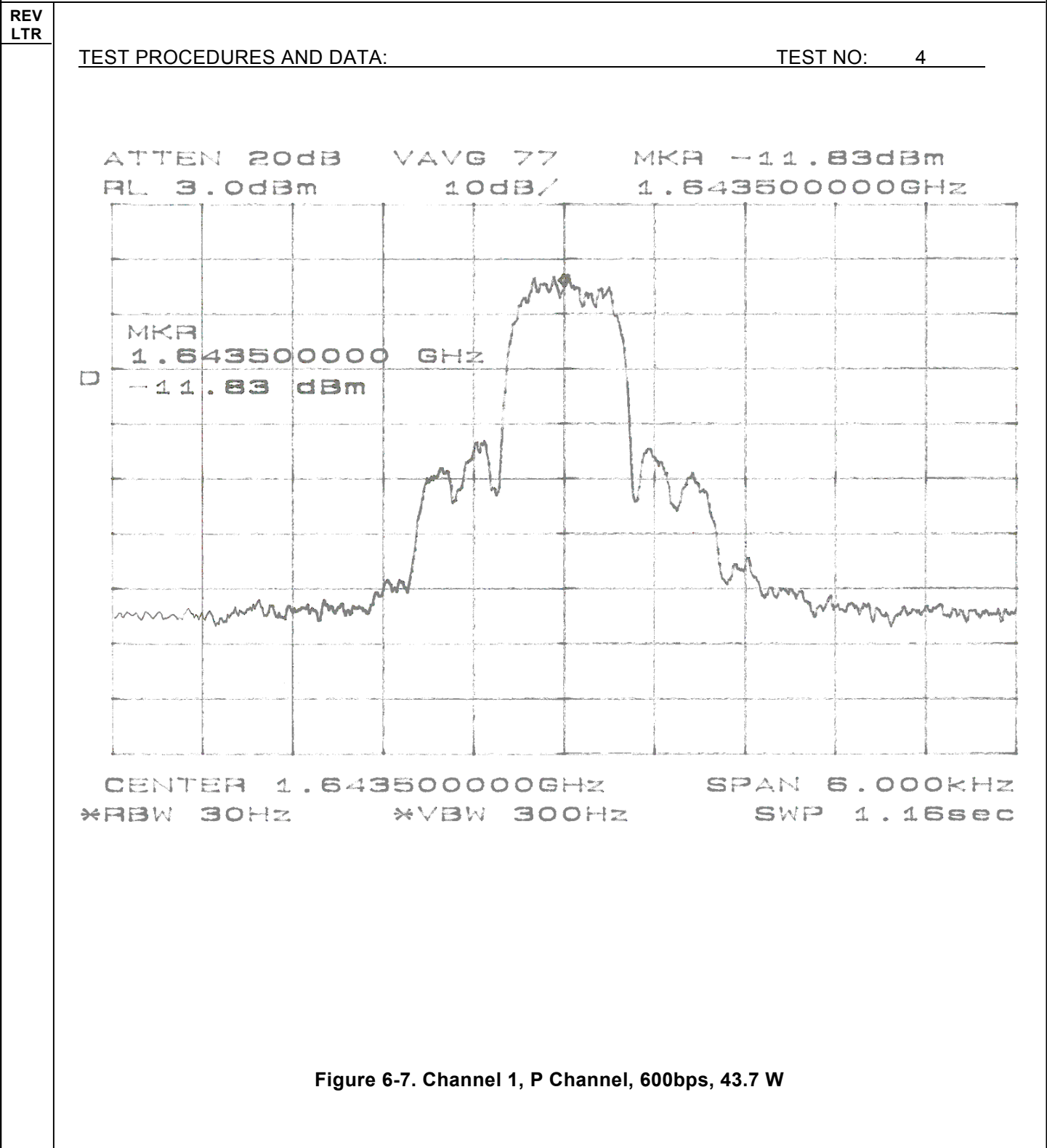
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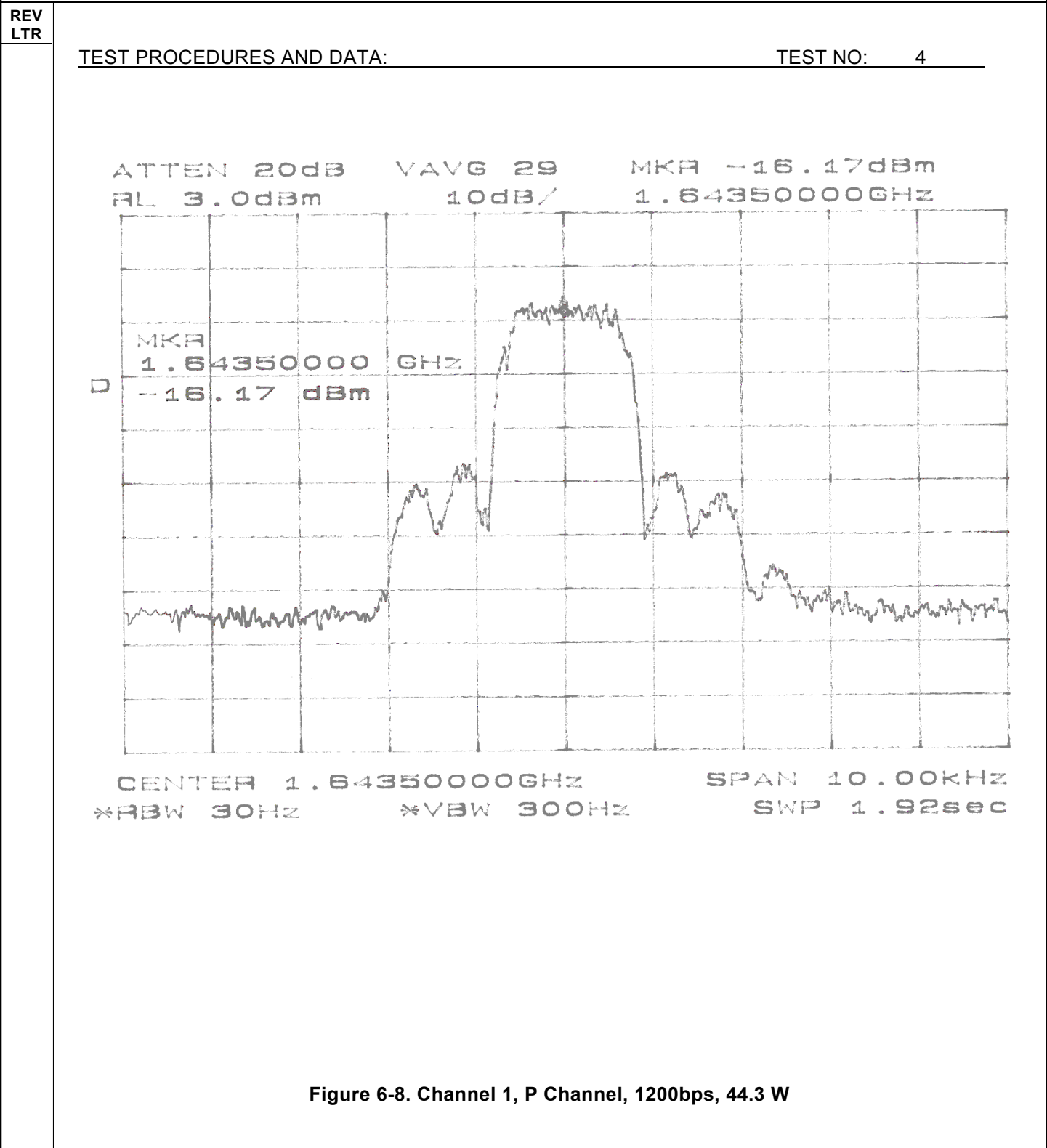
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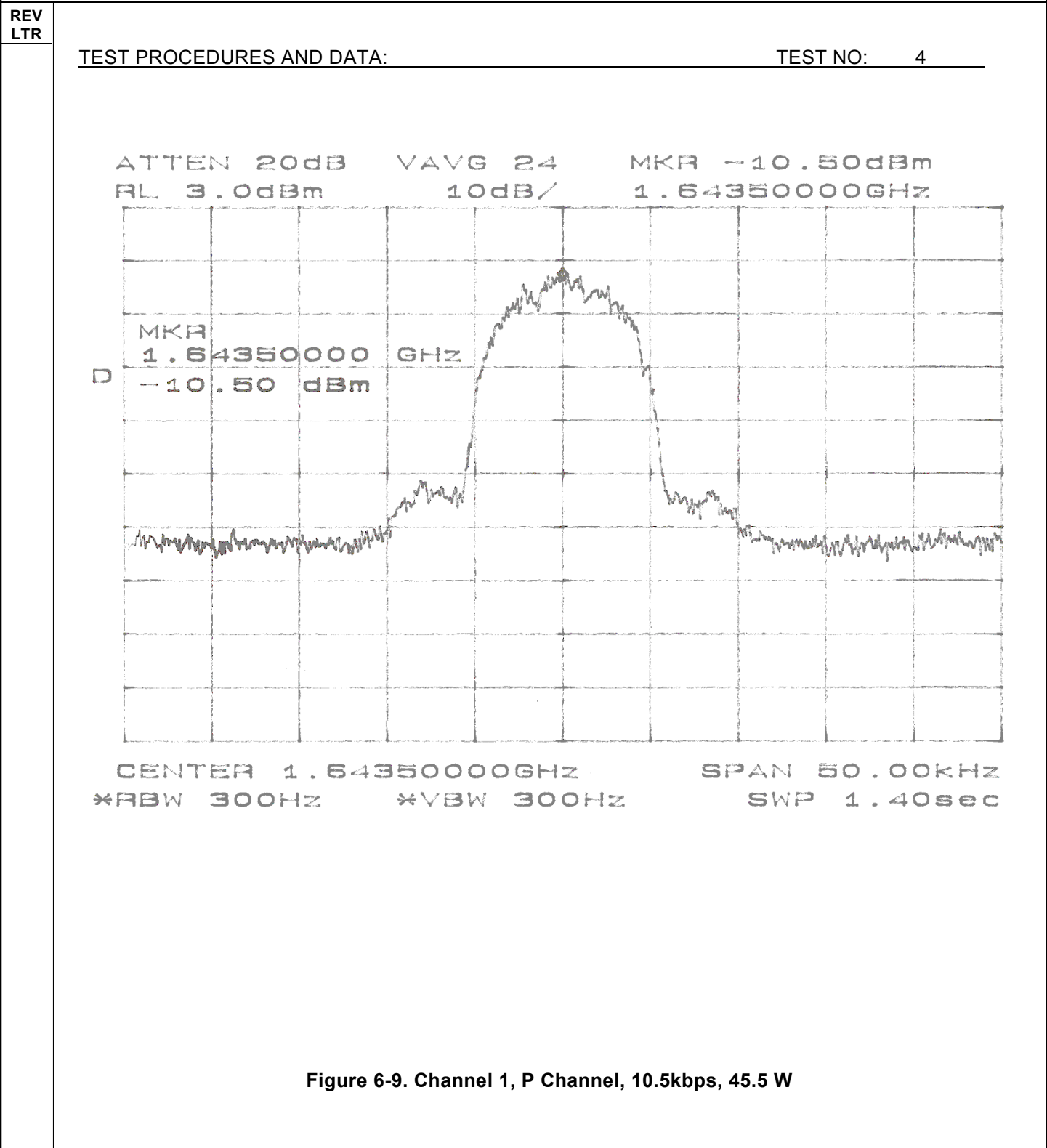
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<table><tr><td colspan="2">Occupied Bandwidth</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Date</td><td>10-4-00</td><td></td><td></td><td></td><td></td><td>40W HPA</td><td></td></tr><tr><td>Tester</td><td>Bailey</td><td></td><td></td><td></td><td></td><td>HPA = 44.3W out</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>Chan 1 = P1200</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Freq (+/- Hz)</td><td>Pwr (lower) (dBm)</td><td>Pwr (upper) (dBm)</td><td>Pwr (lower) (mw)</td><td>Pwr (upper) (mw)</td><td>Pwr (total) (mw)</td><td>Pwr (in band) (%)</td><td></td></tr><tr><td>0</td><td>-13.8</td><td>N/A</td><td>0.0417</td><td>0.0000</td><td>0.0417</td><td>20.38</td><td></td></tr><tr><td>200</td><td>-13.5</td><td>-15.3</td><td>0.0447</td><td>0.0295</td><td>0.1159</td><td>56.63</td><td></td></tr><tr><td>400</td><td>-14.6</td><td>-16.1</td><td>0.0347</td><td>0.0245</td><td>0.1751</td><td>85.58</td><td></td></tr><tr><td>600</td><td>-18.6</td><td>-18.6</td><td>0.0138</td><td>0.0138</td><td>0.2027</td><td>99.07</td><td></td></tr><tr><td>800</td><td>-34.2</td><td>-28.6</td><td>0.0004</td><td>0.0014</td><td>0.2045</td><td>99.93</td><td></td></tr><tr><td>1000</td><td>-45.0</td><td>-52.5</td><td>0.0000</td><td>0.0000</td><td>0.2045</td><td>99.95</td><td></td></tr><tr><td>1200</td><td>-45.8</td><td>-46.3</td><td>0.0000</td><td>0.0000</td><td>0.2045</td><td>99.97</td><td></td></tr><tr><td>1400</td><td>-54.3</td><td>-55.8</td><td>0.0000</td><td>0.0000</td><td>0.2045</td><td>99.98</td><td></td></tr><tr><td>1600</td><td>-47.8</td><td>-51.8</td><td>0.0000</td><td>0.0000</td><td>0.2046</td><td>99.99</td><td></td></tr><tr><td>1800</td><td>-49.1</td><td>-49.8</td><td>0.0000</td><td>0.0000</td><td>0.2046</td><td>100.00</td><td></td></tr><tr><td>2000</td><td>-63.1</td><td>-60.8</td><td>0.0000</td><td>0.0000</td><td>0.2046</td><td>100.00</td><td></td></tr><tr><td>2200</td><td>-70.0</td><td>-65.6</td><td>0.0000</td><td>0.0000</td><td>0.2046</td><td>100.00</td><td></td></tr><tr><td>2400</td><td>-69.6</td><td>-65.5</td><td>0.0000</td><td>0.0000</td><td>0.2046</td><td>100.00</td><td></td></tr><tr><td>2600</td><td>-70.3</td><td>-68.6</td><td>0.0000</td><td>0.0000</td><td>0.2046</td><td>100.00</td><td></td></tr><tr><td>2800</td><td>-71.9</td><td>-69.0</td><td>0.0000</td><td>0.0000</td><td>0.2046</td><td>100.00</td><td></td></tr><tr><td>3000</td><td>-70.8</td><td>-69.0</td><td>0.0000</td><td>0.0000</td><td>0.2046</td><td>100.00</td><td></td></tr></table>								Occupied Bandwidth								Date	10-4-00					40W HPA		Tester	Bailey					HPA = 44.3W out								Chan 1 = P1200																		Freq (+/- Hz)	Pwr (lower) (dBm)	Pwr (upper) (dBm)	Pwr (lower) (mw)	Pwr (upper) (mw)	Pwr (total) (mw)	Pwr (in band) (%)		0	-13.8	N/A	0.0417	0.0000	0.0417	20.38		200	-13.5	-15.3	0.0447	0.0295	0.1159	56.63		400	-14.6	-16.1	0.0347	0.0245	0.1751	85.58		600	-18.6	-18.6	0.0138	0.0138	0.2027	99.07		800	-34.2	-28.6	0.0004	0.0014	0.2045	99.93		1000	-45.0	-52.5	0.0000	0.0000	0.2045	99.95		1200	-45.8	-46.3	0.0000	0.0000	0.2045	99.97		1400	-54.3	-55.8	0.0000	0.0000	0.2045	99.98		1600	-47.8	-51.8	0.0000	0.0000	0.2046	99.99		1800	-49.1	-49.8	0.0000	0.0000	0.2046	100.00		2000	-63.1	-60.8	0.0000	0.0000	0.2046	100.00		2200	-70.0	-65.6	0.0000	0.0000	0.2046	100.00		2400	-69.6	-65.5	0.0000	0.0000	0.2046	100.00		2600	-70.3	-68.6	0.0000	0.0000	0.2046	100.00		2800	-71.9	-69.0	0.0000	0.0000	0.2046	100.00		3000	-70.8	-69.0	0.0000	0.0000	0.2046	100.00	
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ENGINEERING SPECIFICATION

SECURITY NOTATION

**SPEC
NO.**

EB7516219

CAGE
CODE

55939

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FOR THIS SHEET
REV LETTER

REV LTR

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REV
LTR

TEST PROCEDURES AND DATA:

TEST NO: 4

Occupied Bandwidth						
Date	10-4-00				40W HPA	
Tester	Bailey				HPA = 45.5W out	
					Chan 1 = P10.5k	
Freq (+/- Hz)	Pwr (lower) (dBm)	Pwr (upper) (dBm)	Pwr (lower) (mw)	Pwr (upper) (mw)	Pwr (total) (mw)	Pwr (in band) (%)
0	-11.0	N/A	0.0794	0.0000	0.0794	18.94
1000	-11.5	-11.0	0.0708	0.0794	0.2297	54.75
2000	-13.5	-12.5	0.0447	0.0562	0.3306	78.80
3000	-15.5	-14.0	0.0282	0.0398	0.3986	95.01
4000	-21.3	-19.3	0.0074	0.0117	0.4177	99.58
5000	-32.5	-29.5	0.0006	0.0011	0.4194	99.98
6000	-50.8	-50.5	0.0000	0.0000	0.4194	99.99
7000	-51.0	-51.3	0.0000	0.0000	0.4194	99.99
8000	-48.7	-52.2	0.0000	0.0000	0.4195	99.99
9000	-52.2	-52.7	0.0000	0.0000	0.4195	100.00
10000	-56.3	-58.8	0.0000	0.0000	0.4195	100.00
11000	-58.3	-59.2	0.0000	0.0000	0.4195	100.00
12000	-60.5	-59.3	0.0000	0.0000	0.4195	100.00
13000	-59.7	-59.7	0.0000	0.0000	0.4195	100.00
14000	-57.7	-59.5	0.0000	0.0000	0.4195	100.00
15000	-59.8	-60.3	0.0000	0.0000	0.4195	100.00

TEST PERFORMED BY: Pete Bailey

DATE: 10/2/00

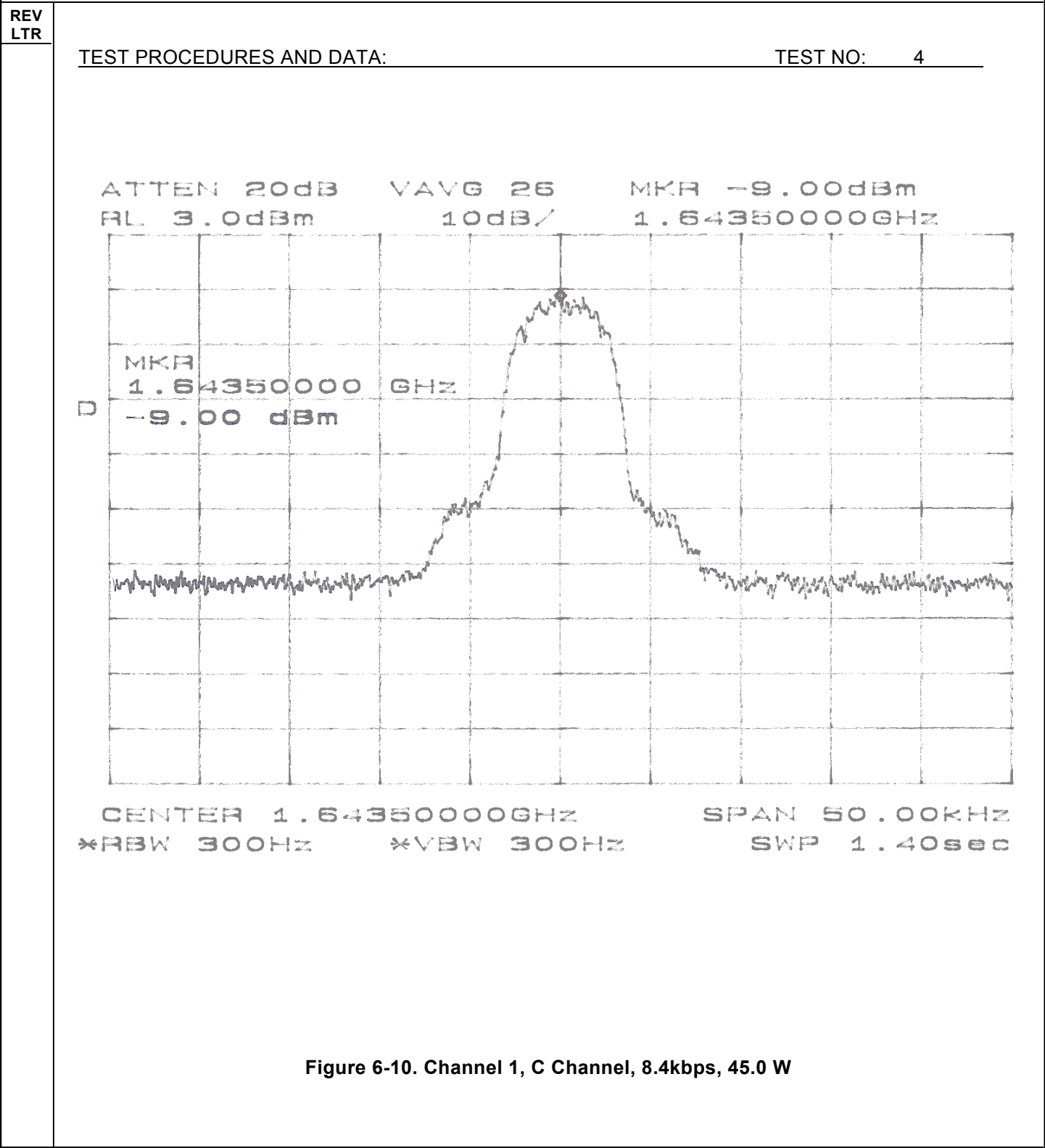
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				CAGE CODE 55939																																																						
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5																																																									
	1.0 DESCRIPTION OF TEST: Conducted Spurious emission (100 kHz and 18 GHz)																																																									
	2.0 SPECIFICATIONS: 47 CFR 87.139																																																									
	47 CFR 2.991																																																									
	47 CFR 2.993																																																									
	3.0 EQUIPMENT REQUIRED:																																																									
	<table><tr><th>TYPE</th><th>MANUFACTURER</th><th>MODEL</th><th>SER. NO.</th></tr><tr><td>A High Power Amplifier</td><td>Honeywell</td><td>HP700</td><td>99090157</td></tr><tr><td>B Satellite Data Unit</td><td>Honeywell</td><td>HP600</td><td>00061939</td></tr><tr><td>C 20 dB Attenuator</td><td>Narda</td><td>SD700</td><td>00070003</td></tr><tr><td>D 20 dB Attenuator</td><td>Narda</td><td>766-20</td><td>-</td></tr><tr><td>E Spectrum Analyzer</td><td>Hewlett Packard</td><td>8563E</td><td>05409</td></tr><tr><td>F Power Meter</td><td>Hewlett Packard</td><td>438A</td><td>55652</td></tr><tr><td>G Directional Coupler</td><td>Narda</td><td>3002-20</td><td>02845-</td></tr><tr><td>H Terminal (PC)</td><td>Dell w/ Procom</td><td>-</td><td>-</td></tr><tr><td>I 10 dB Attenuator</td><td>Narda</td><td>765-10</td><td>-</td></tr><tr><td>J 30 dB Attenuator</td><td>Narda.</td><td>766-30</td><td>-</td></tr><tr><td>K Diplexer/LNA</td><td>Phase Atlantic</td><td>WGE-0090-00</td><td>COM9800396</td></tr><tr><td>L Plotter</td><td>Hewlett Packard</td><td>7475A</td><td>21242</td></tr></table>						TYPE	MANUFACTURER	MODEL	SER. NO.	A High Power Amplifier	Honeywell	HP700	99090157	B Satellite Data Unit	Honeywell	HP600	00061939	C 20 dB Attenuator	Narda	SD700	00070003	D 20 dB Attenuator	Narda	766-20	-	E Spectrum Analyzer	Hewlett Packard	8563E	05409	F Power Meter	Hewlett Packard	438A	55652	G Directional Coupler	Narda	3002-20	02845-	H Terminal (PC)	Dell w/ Procom	-	-	I 10 dB Attenuator	Narda	765-10	-	J 30 dB Attenuator	Narda.	766-30	-	K Diplexer/LNA	Phase Atlantic	WGE-0090-00	COM9800396	L Plotter	Hewlett Packard	7475A	21242
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REV LTR	TEST PROCEDURES AND DATA: _____	TEST NO: 5
	4.0 BLOCK DIAGRAM OF TEST SETUP: <pre> graph LR G --- B B --- C C --- A A --- J J --- H H --- F F --- I F --- E I --- D D --- K </pre>	

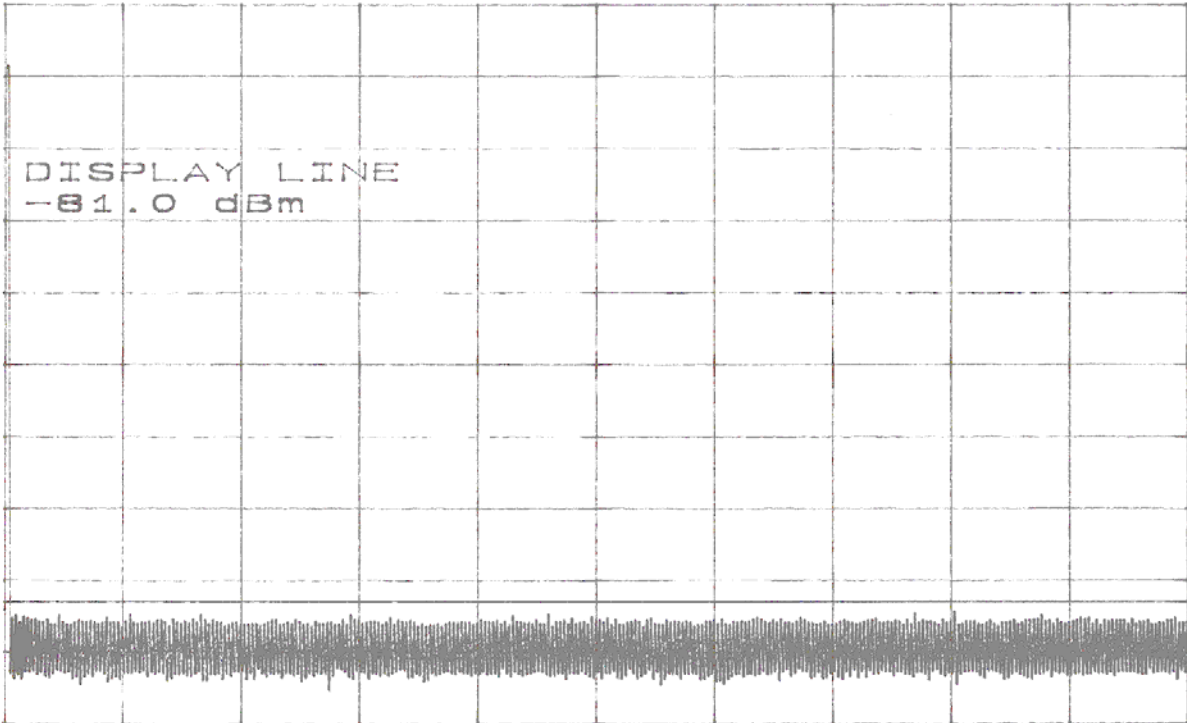
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 5.0 PROCEDURE: 1. Connect the equipment a shown in block diagram in Section 4.0 of test number 5. 2. Using the terminal, set the SDU back-off attenuator to 0 dB. (This is the nominal back-off setting.) 3. Using the terminal, set the SDU to transmit a C21k modulated carrier on channel 1 at 1643.5 MHz. 4. For the 20W HPA, using the terminal, set the HPA back-off attenuator to produce 11.2 dBm on the power meter. This level equals to 20 W at the HPA RF antenna port. 5. For the 40W HPA, using the terminal, set the HPA back-off attenuator to produce 14.2 dBm on the power meter. This level equals to 40 W at the HPA RF antenna port. 6. For both the 20W and 40W HPA capture each spectrum analyzer display listed below. <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Plot</th> <th>Center (MHz)</th> <th>Span (MHz)</th> <th>RBW (kHz)</th> <th>VBW (kHz)</th> <th>Limit (dBc)</th> </tr> </thead> <tbody> <tr><td>1</td><td>100</td><td>200</td><td>10</td><td>1</td><td>-83</td></tr> <tr><td>2</td><td>300</td><td>200</td><td>10</td><td>1</td><td>-83</td></tr> <tr><td>3</td><td>500</td><td>200</td><td>10</td><td>1</td><td>-83</td></tr> <tr><td>4</td><td>700</td><td>200</td><td>10</td><td>1</td><td>-83</td></tr> <tr><td>5</td><td>900</td><td>200</td><td>10</td><td>1</td><td>-83</td></tr> <tr><td>6</td><td>1100</td><td>500</td><td>10</td><td>1</td><td>-83</td></tr> <tr><td>7</td><td>1310</td><td>500</td><td>10</td><td>1</td><td>-83</td></tr> <tr><td>8</td><td>1542</td><td>35</td><td>10</td><td>1</td><td>-83</td></tr> <tr><td>9</td><td>1615</td><td>120</td><td>100</td><td>3</td><td>-55</td></tr> <tr><td>10</td><td>2000</td><td>800</td><td>1000</td><td>3</td><td>-55</td></tr> <tr><td>11</td><td>4000</td><td>3400</td><td>1000</td><td>3</td><td>-55</td></tr> <tr><td>12</td><td>8700</td><td>6600</td><td>1000</td><td>3</td><td>-55</td></tr> <tr><td>13</td><td>14900</td><td>6200</td><td>300</td><td>3</td><td>-55</td></tr> </tbody> </table> 6.0 DATA The data are presented on the following pages of this test. The reference output power for the 20W HPA is 23.2 watts, for the 40W HPA it is 46.4 watts.	Plot	Center (MHz)	Span (MHz)	RBW (kHz)	VBW (kHz)	Limit (dBc)	1	100	200	10	1	-83	2	300	200	10	1	-83	3	500	200	10	1	-83	4	700	200	10	1	-83	5	900	200	10	1	-83	6	1100	500	10	1	-83	7	1310	500	10	1	-83	8	1542	35	10	1	-83	9	1615	120	100	3	-55	10	2000	800	1000	3	-55	11	4000	3400	1000	3	-55	12	8700	6600	1000	3	-55	13	14900	6200	300	3	-55
Plot	Center (MHz)	Span (MHz)	RBW (kHz)	VBW (kHz)	Limit (dBc)																																																																																
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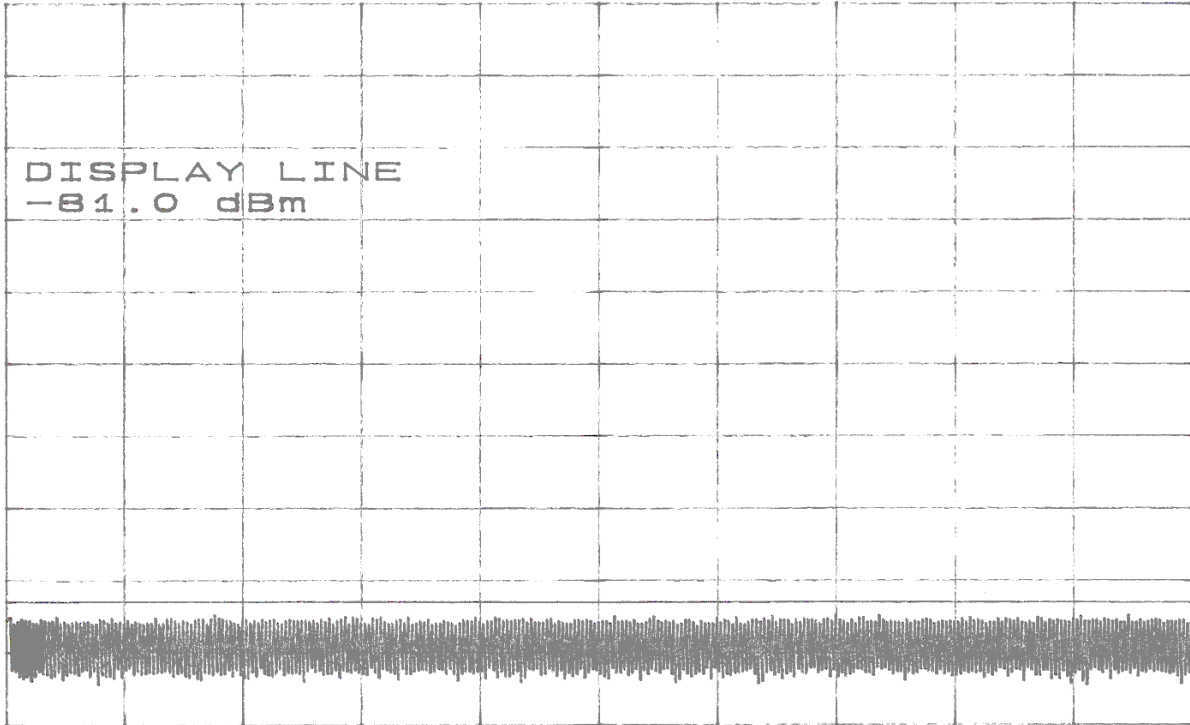
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REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 5	
ATTEN 20dB RL 2.0dBm10dB/ DISPLAY LINE -81.0 dBm  CENTER 100.0MHzSPAN 200.0MHz *RBW 10kHz*VBW 1.0kHzSWP 50.0sec				
Figure 6-11. 20W HPA, 0 to 200 MHz				

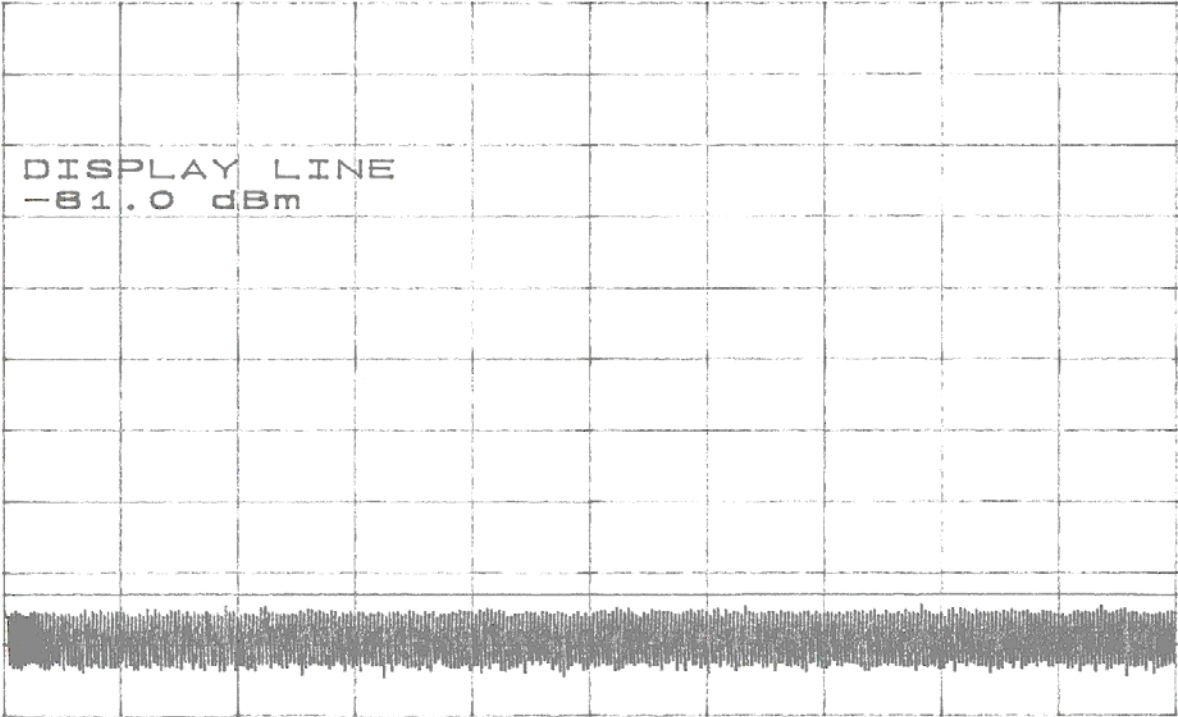
Honeywell	AW/CRITICAL NOTATION		
	SECURITY NOTATION	SUPPLEMENTS	48 PAGE

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REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 5	
ATTEN 20dB RL 2.0dBm10dB/ DISPLAY LINE -81.0 dBm  CENTER 300.0MHzSPAN 200.0MHz *RBW 10kHz*VBW 1.0kHzSWP 50.0sec				
Figure 6-12. 20W HPA, 200 to 400 MHz				

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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 2.0dBm 10dB/ DISPLAY LINE -81.0 dBm  CENTER 500.0MHz *RBW 10kHz SPAN 200.0MHz *VBW 1.0kHz SWP 50.0sec
	Figure 6-13. 20W HPA, 400 to 600 MHz

Honeywell	AW/CRITICAL NOTATION		
	SECURITY NOTATION	SUPPLEMENTS	50 PAGE

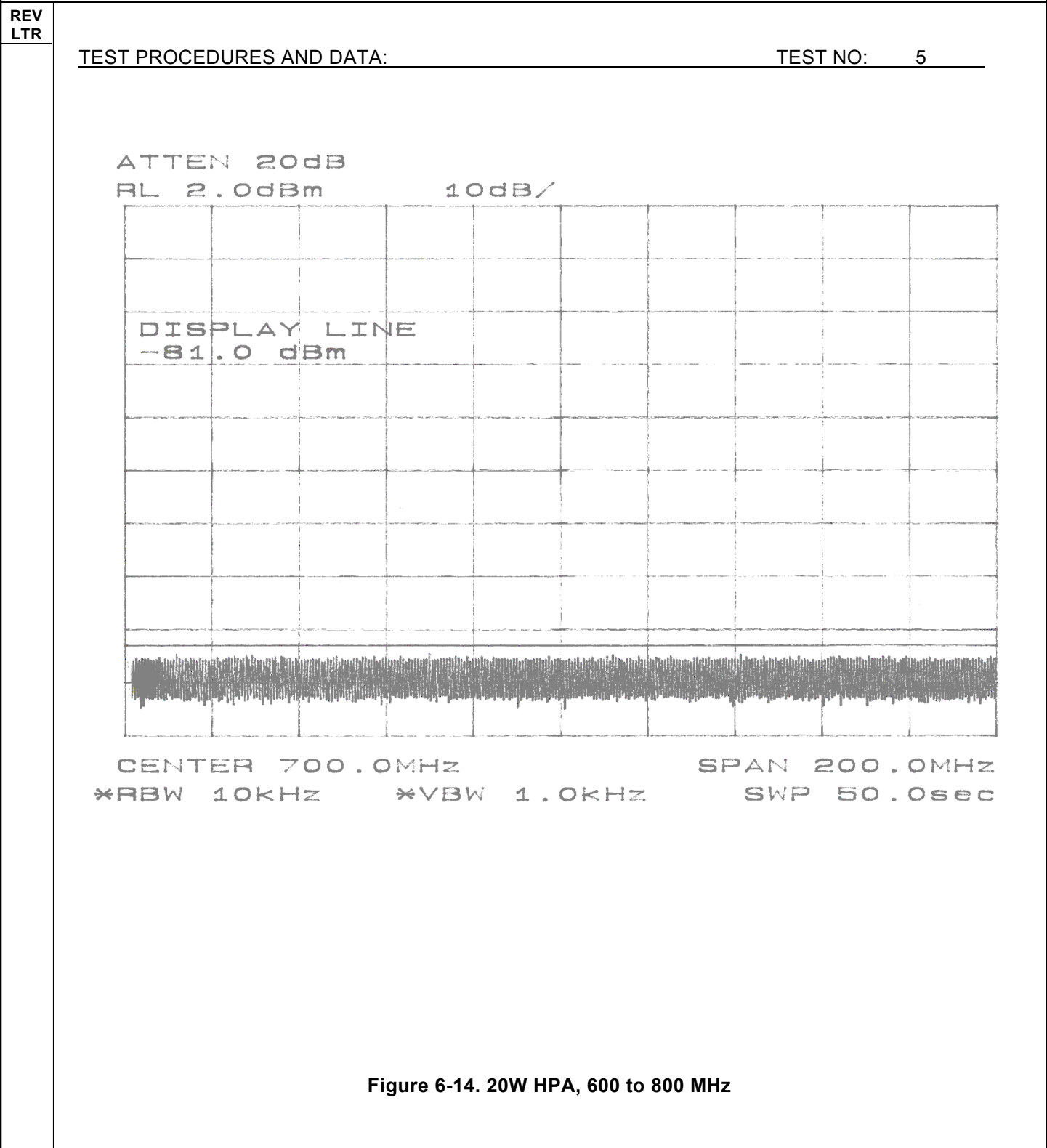
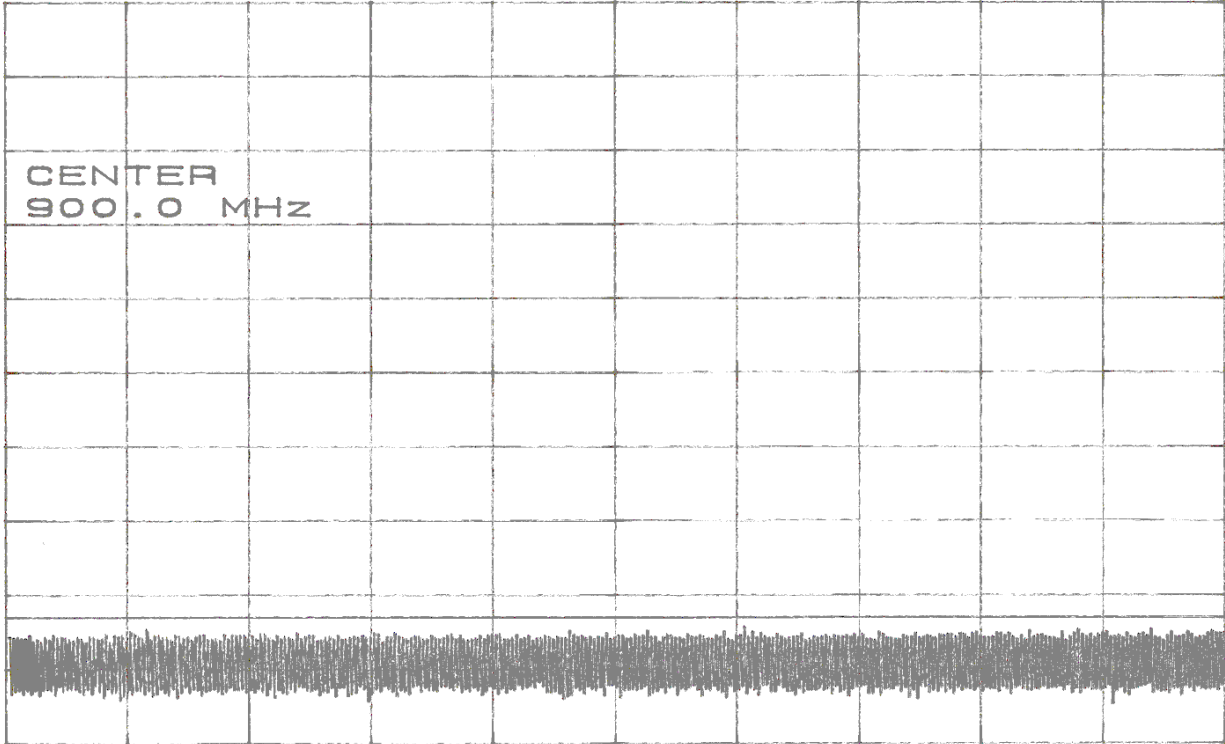


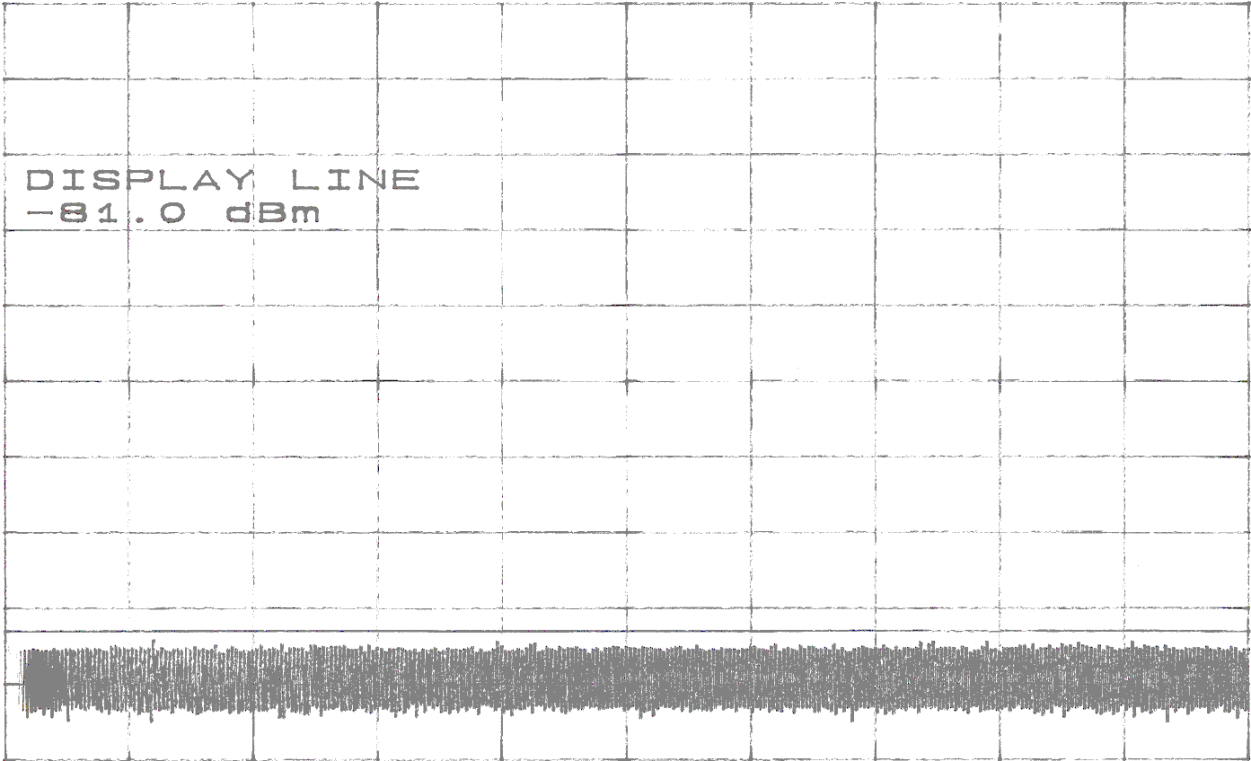
Figure 6-14. 20W HPA, 600 to 800 MHz

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REV LTR	TEST PROCEDURES AND DATA: _____ TEST NO: 5 ATTEN 20dB RL 2.0dBm 10dB/  CENTER 900.0MHz SPAN 200.0MHz *RBW 10kHz *VBW 1.0kHz SWP 50.0sec
	Figure 6-15. 20W HPA, 800 to 1000 MHz

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		CAGE CODE	55939	
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 2.0dBm 10dB/ DISPLAY LINE -81.0 dBm  CENTER 1.1000GHZ *RBW 10KHz *VBW 1.0KHz SPAN 500.0MHZ SWP 130sec
	Figure 6-16. 20W HPA, 850 to 1350 MHz

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	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

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TEST PROCEDURES AND DATA: TEST NO: 5

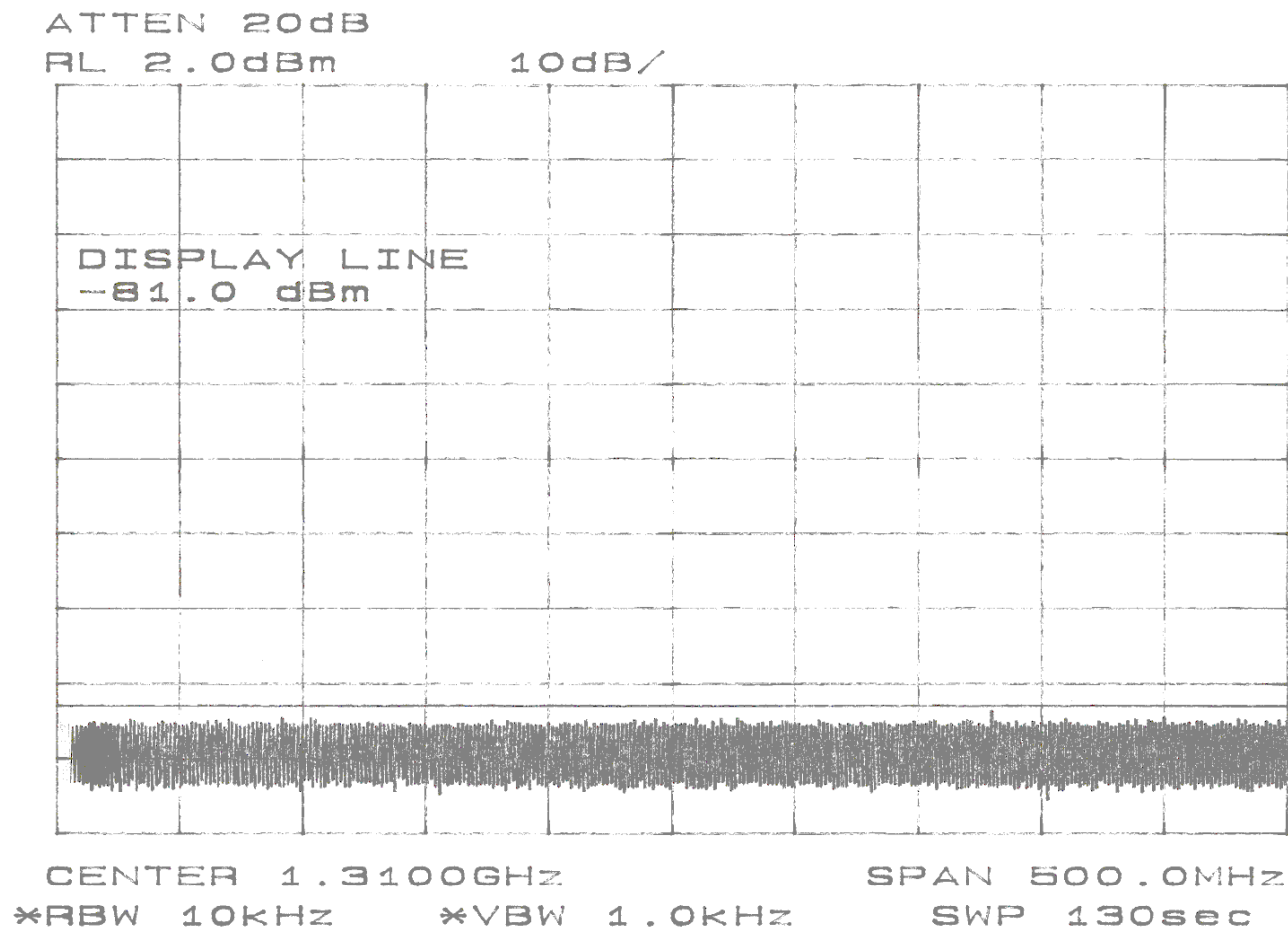


Figure 6-17. 20W HPA, 1060 to 1560 MHz

Honeywell	AW/CRITICAL NOTATION		
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		CAGE CODE	55939	
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

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TEST PROCEDURES AND DATA:

TEST NO: 5

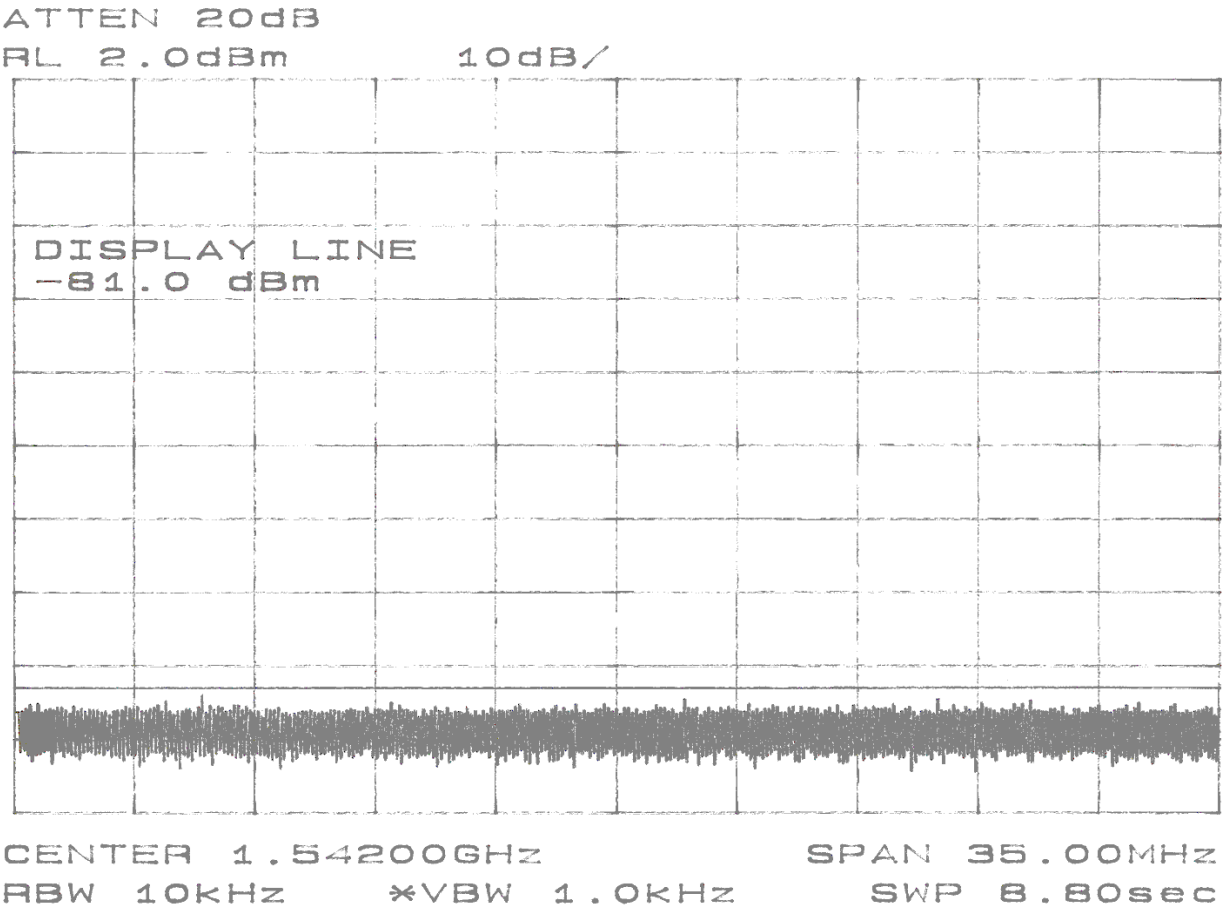
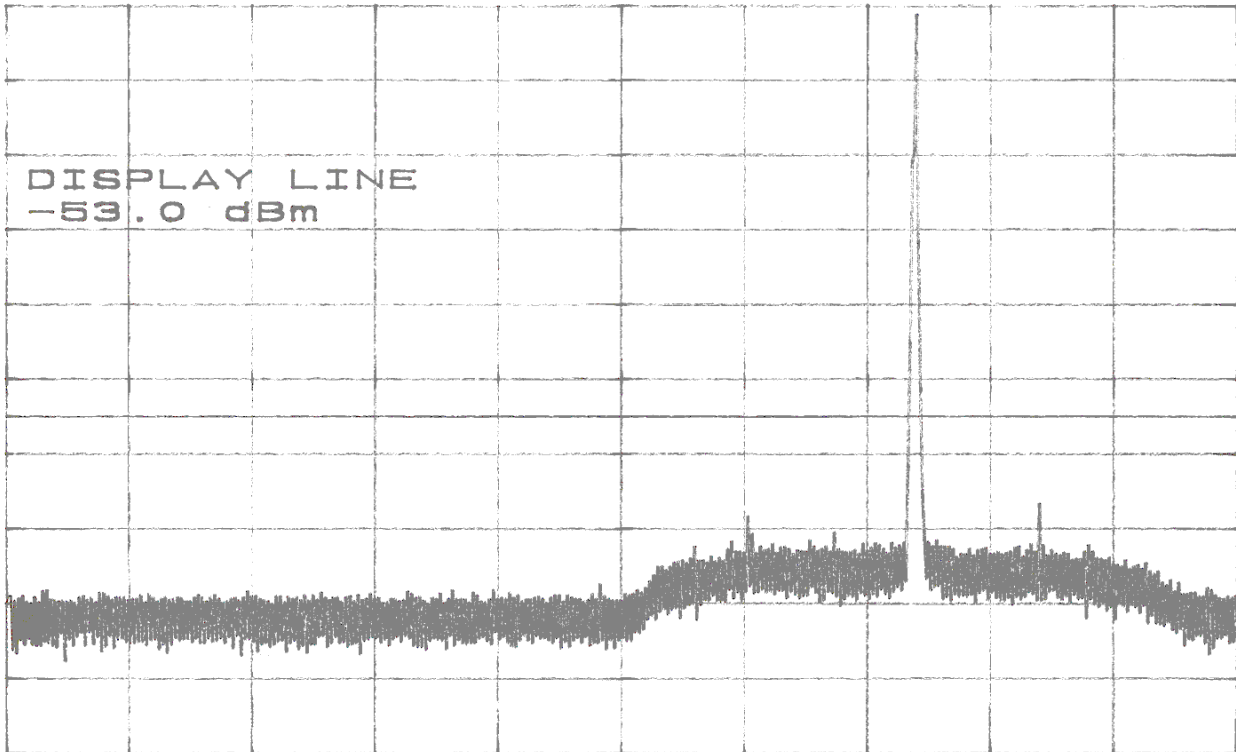


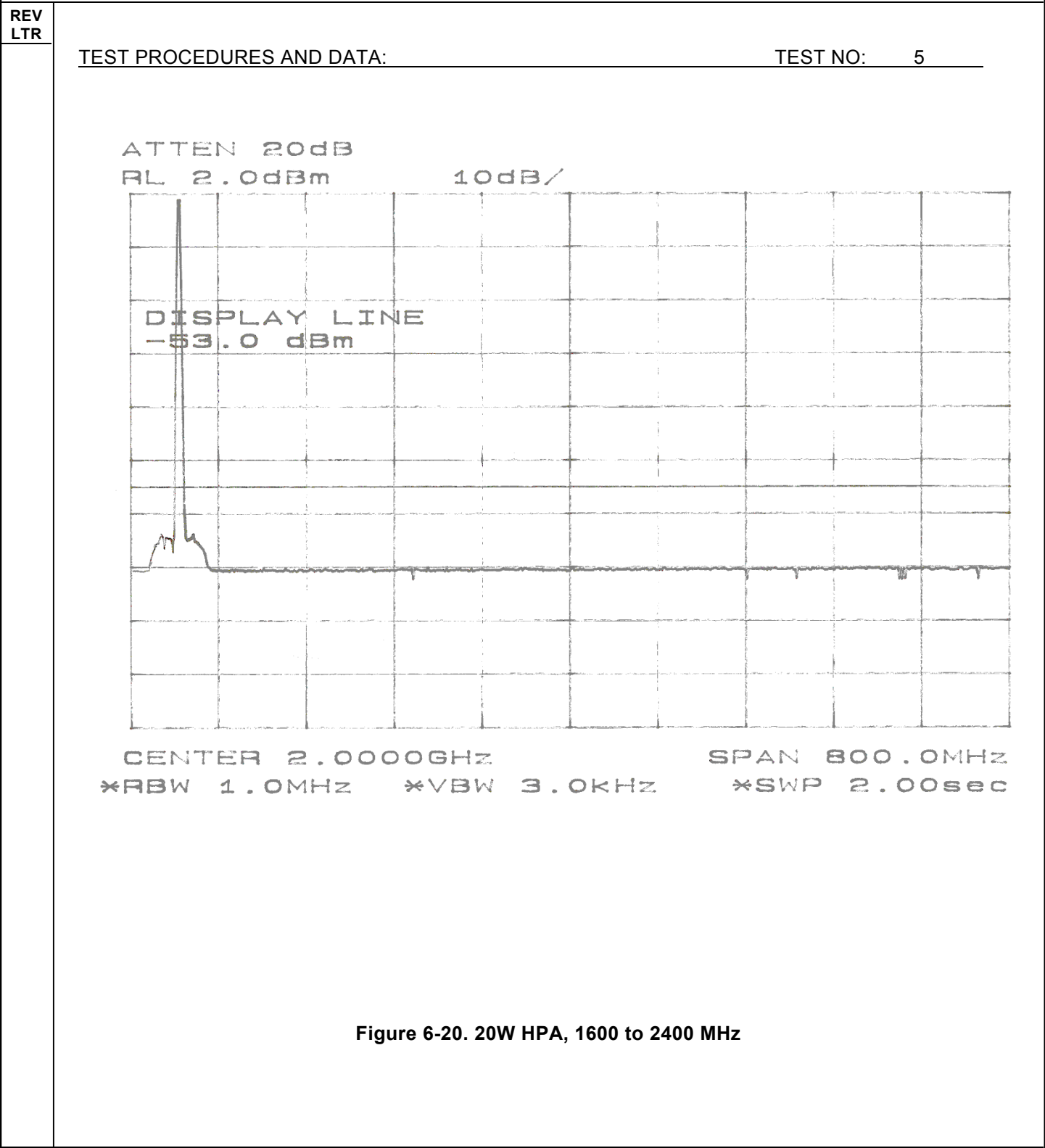
Figure 6-18. 20W HPA, 1524.5 to 1559.5 MHz

Honeywell	AW/CRITICAL NOTATION		
	SECURITY NOTATION	SUPPLEMENTS	55 PAGE

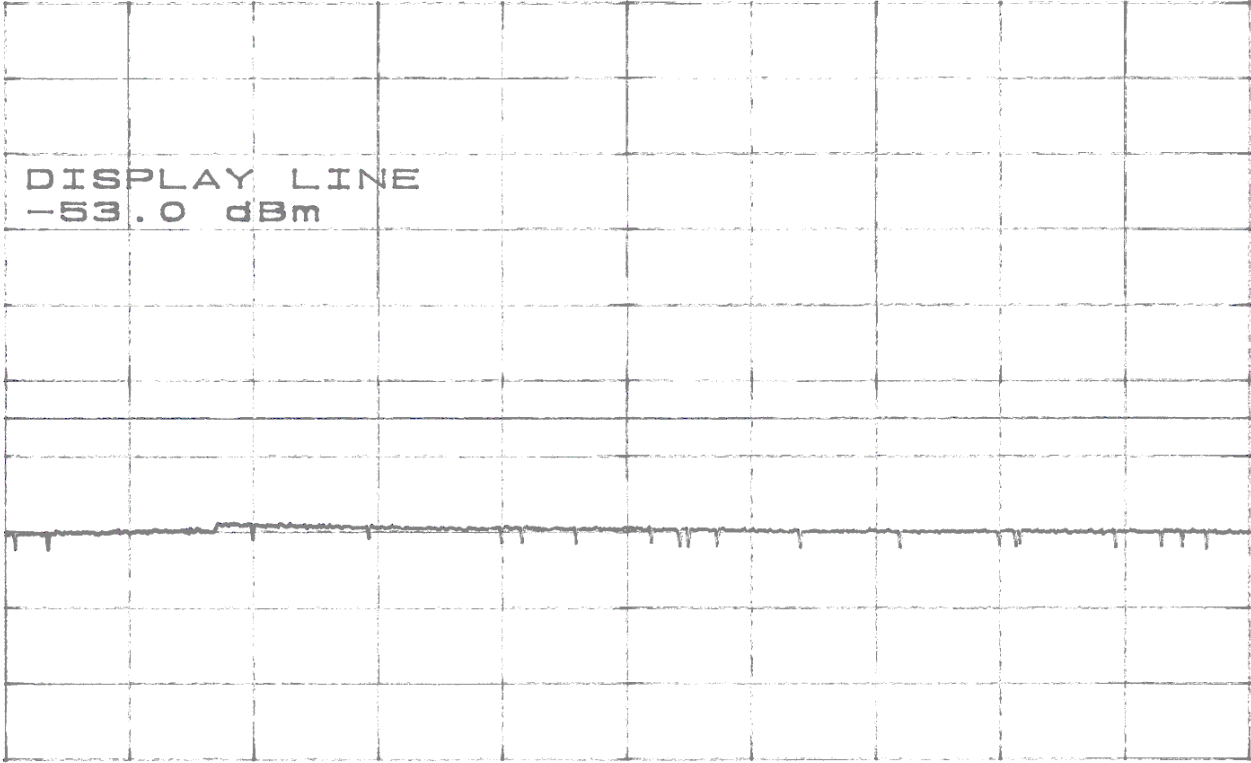
ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO.	EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER
		CAGE CODE	55939	
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 5	
ATTEN 20dB RL 2.0dBm10dB/ DISPLAY LINE -53.0 dBm  CENTER 1.6150GHZSPAN 120.0MHZ *RBW 100KHZ *VBW 3.0KHZ *SWP 2.00sec				
Figure 6-19. 20W HPA, 1555 to 1675 MHz				

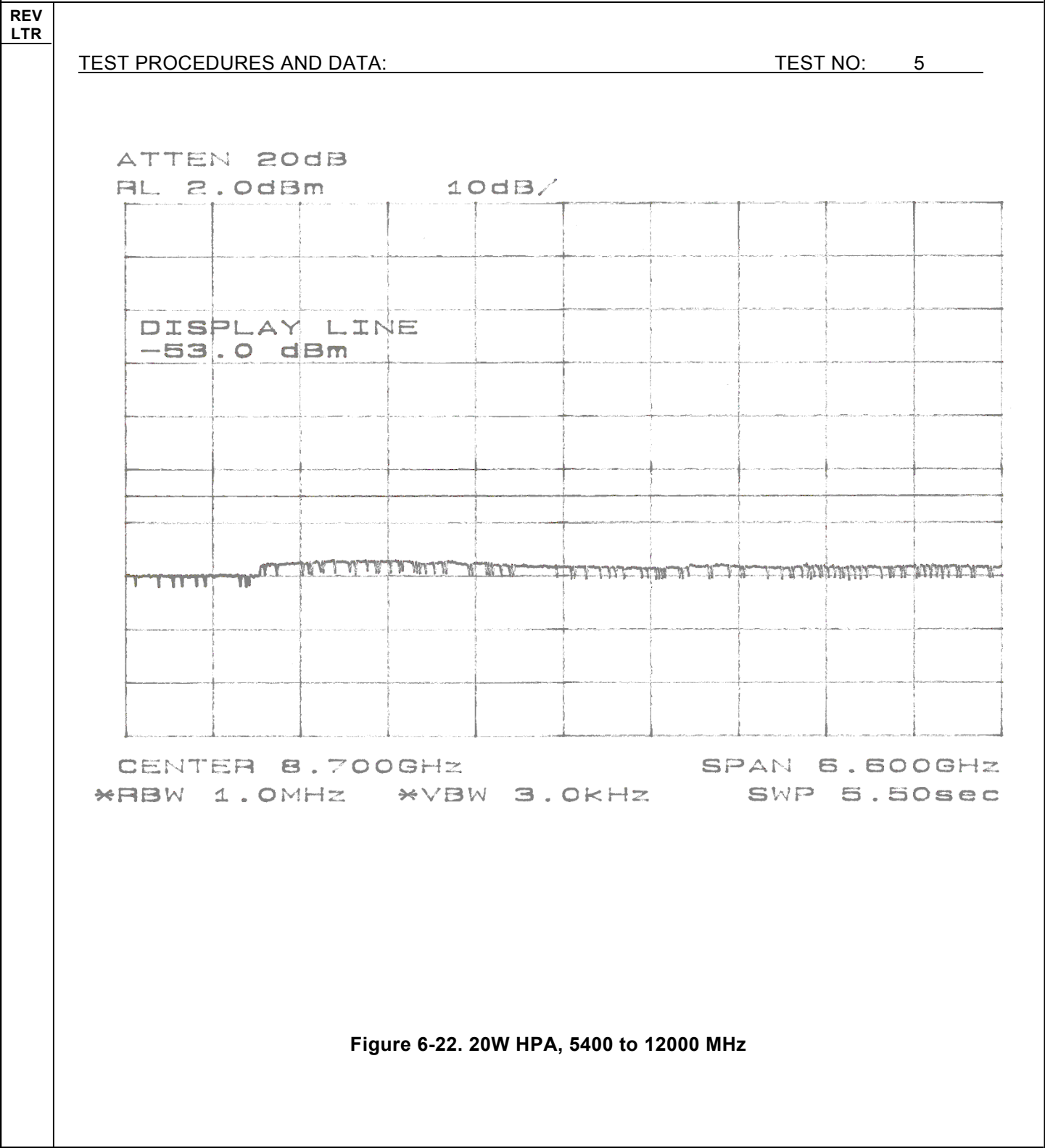
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	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 5
ATTEN 20dB RL 2.0dBm 10dB/ DISPLAY LINE -53.0 dBm  CENTER 4.000GHz SPAN 3.400GHz *RBW 1.0MHz *VBW 3.0kHz SWP 2.90sec			
Figure 6-21. 20W HPA, 2300 to 5700 MHz			

Honeywell	AW/CRITICAL NOTATION		
	SECURITY NOTATION	SUPPLEMENTS	58 PAGE

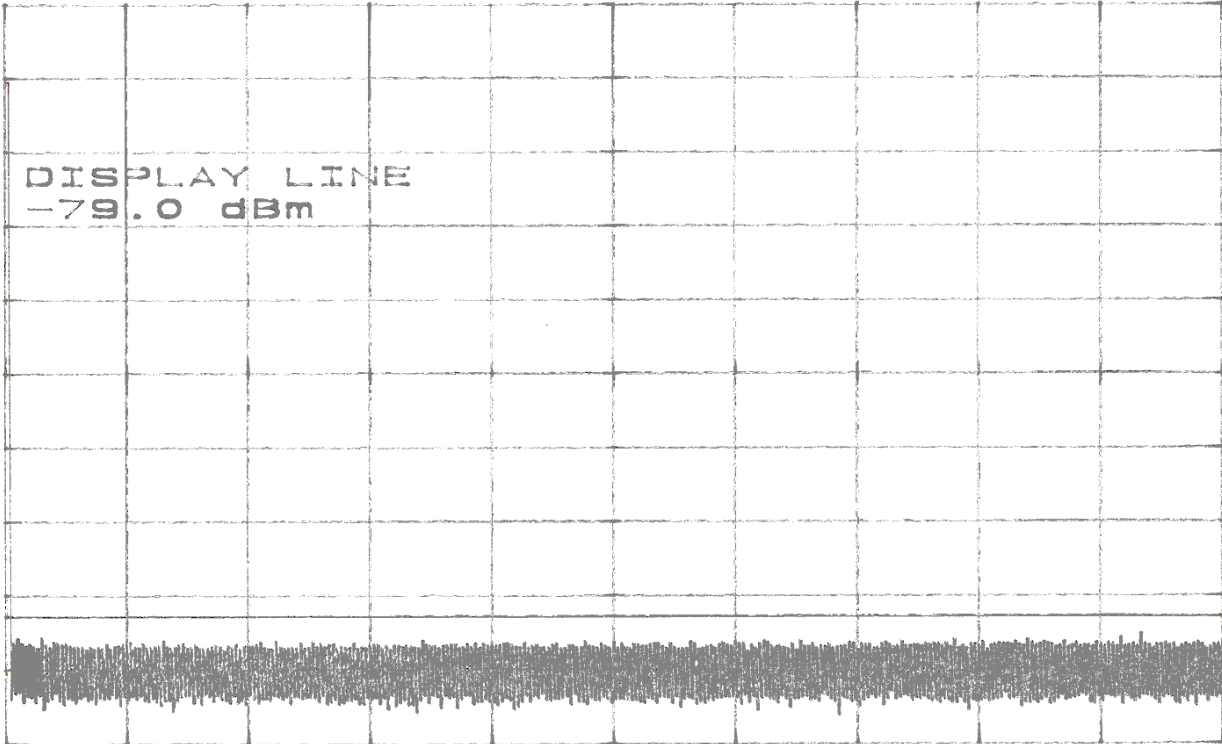


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		CAGE CODE	55939	
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA:	TEST NO: 5
	ATTEN 20dB RL 2.0dBm 10dB/ DISPLAY LINE -53.0 dBm CENTER 14.900GHz SPAN 6.200GHz *RBW 1.0MHz *VBW 3.0kHz SWP 5.20sec	
Figure 6-23. 20W HPA, 11800 to 18000 MHz TEST PERFORMED BY: Pete Bailey DATE: 10/2/00		

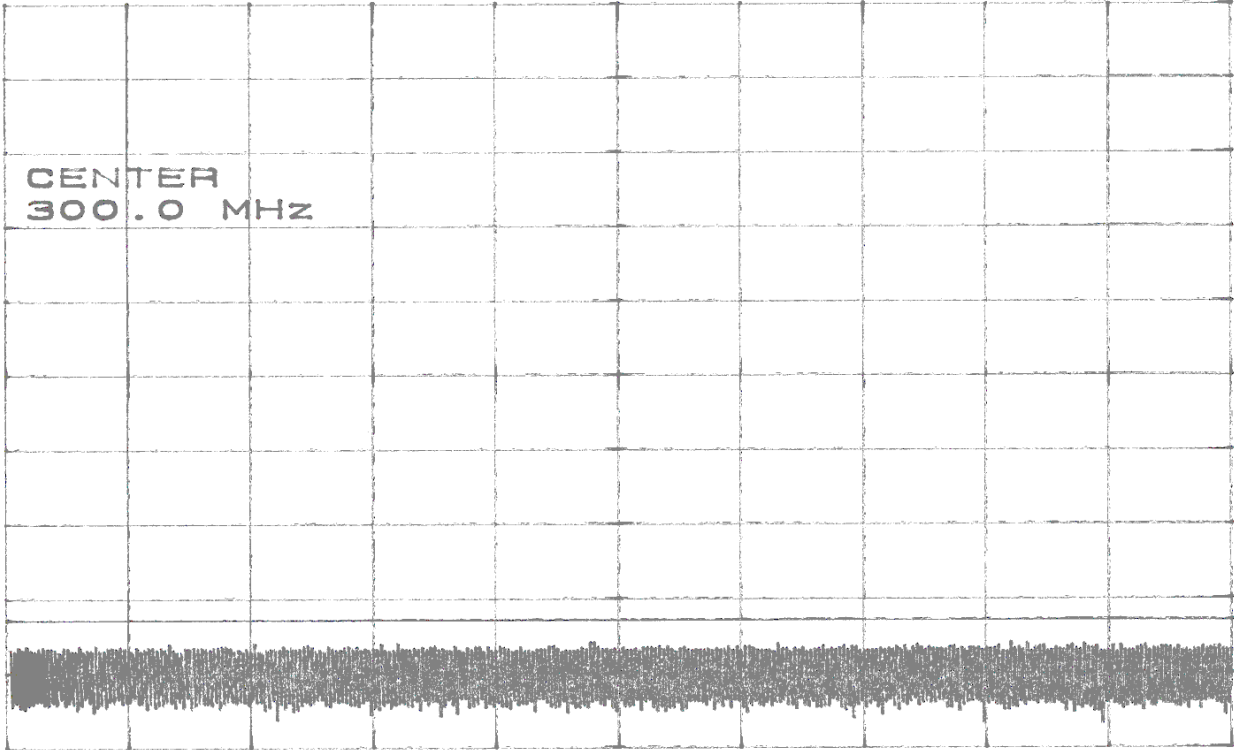
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REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 5	
ATTEN 20dB RL 4.0dBm10dB/ DISPLAY LINE -79.0 dBm  CENTER 100.0MHZSPAN 200.0MHZ *RBW 10KHZ*VBW 1.0KHZSWP 50.0sec				
Figure 6-24. 40W HPA, 0 to 200 MHz				

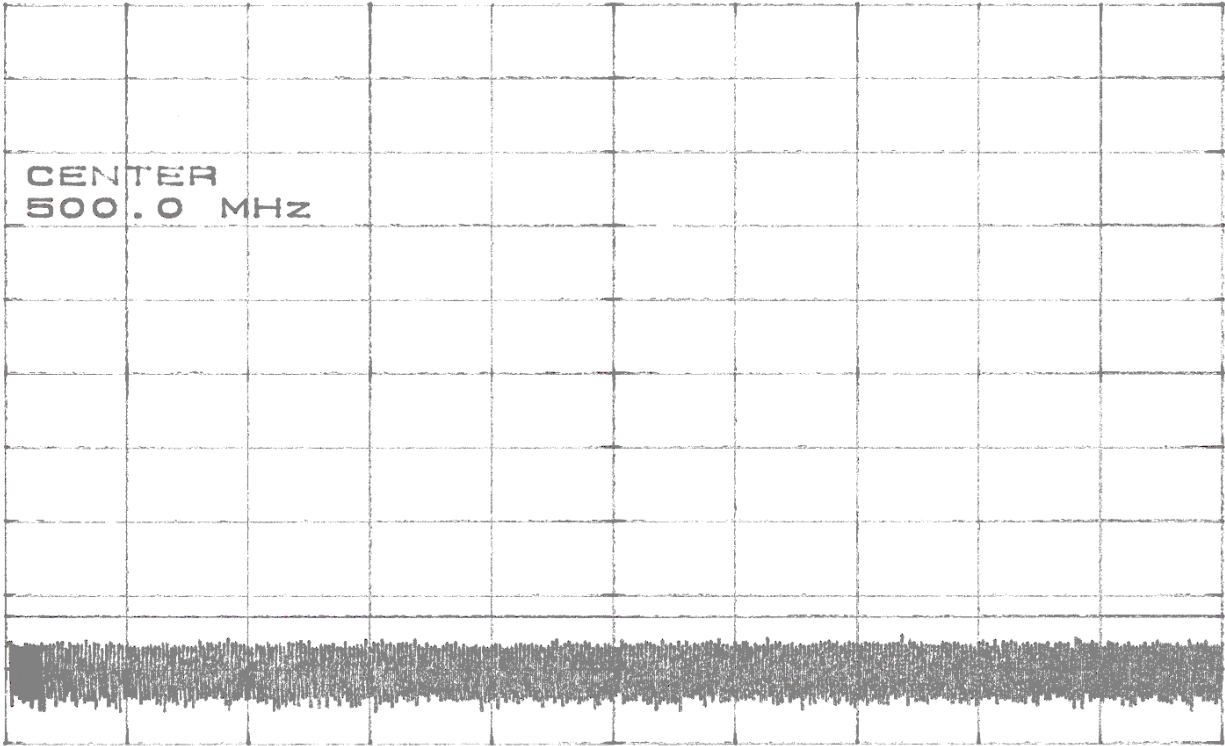
Honeywell	AW/CRITICAL NOTATION		
	SECURITY NOTATION	SUPPLEMENTS	61 PAGE

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REV LTR	TEST PROCEDURES AND DATA: _____ TEST NO: 5 ATTEN 20dB RL 4.0dBm 10dB/  CENTER 300.0 MHz CENTER 300.0MHz SPAN 200.0MHz *RBW 10KHz *VBW 1.0KHz SWP 50.0sec
	Figure 6-25. 40W HPA, 200 to 400 MHz

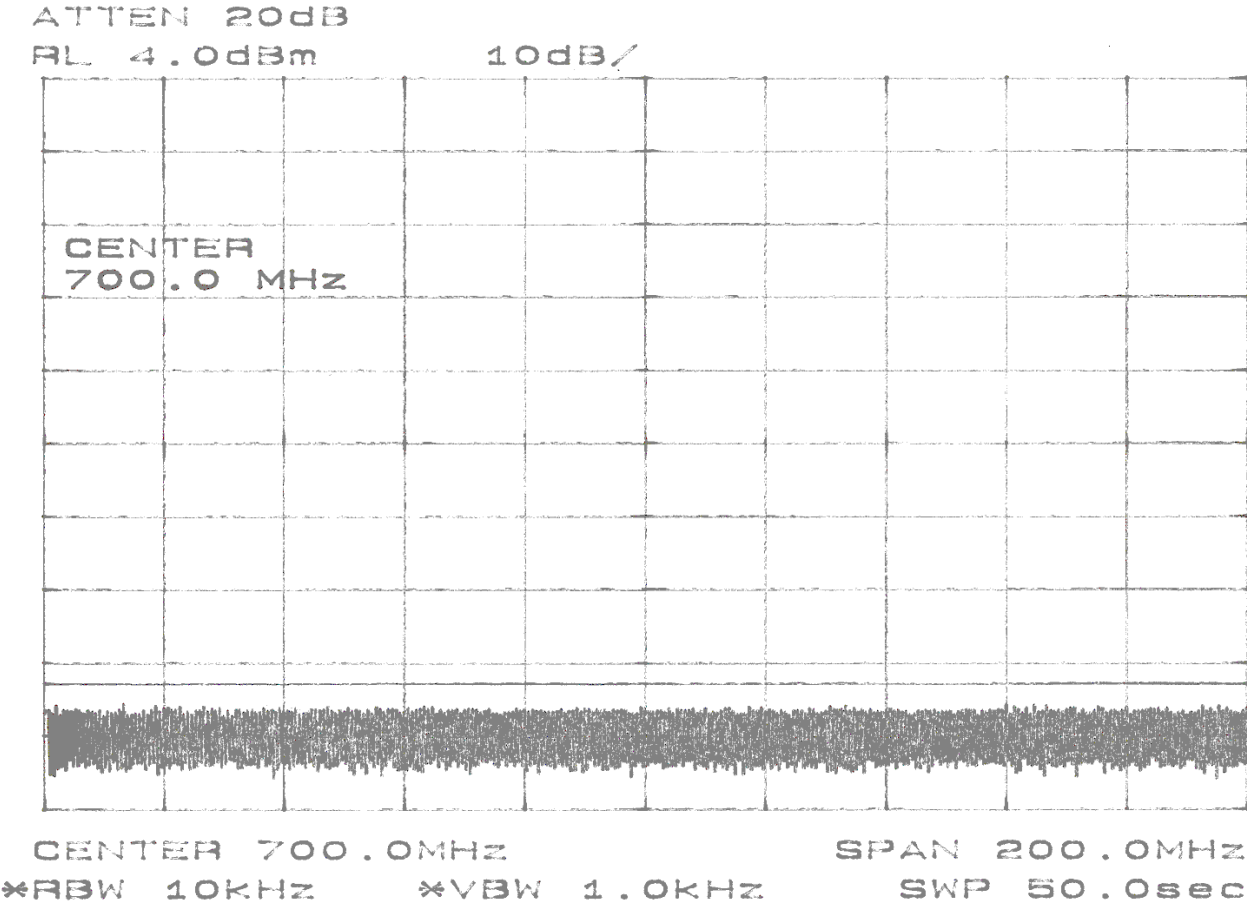
Honeywell	AW/CRITICAL NOTATION		
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 4.0dBm 10dB/ CENTER 500.0 MHz  CENTER 500.0MHz SPAN 200.0MHz *RBW 10kHz *VBW 1.0kHz SWP 50.0sec
	Figure 6-26. 40W HPA, 400 to 600 MHz

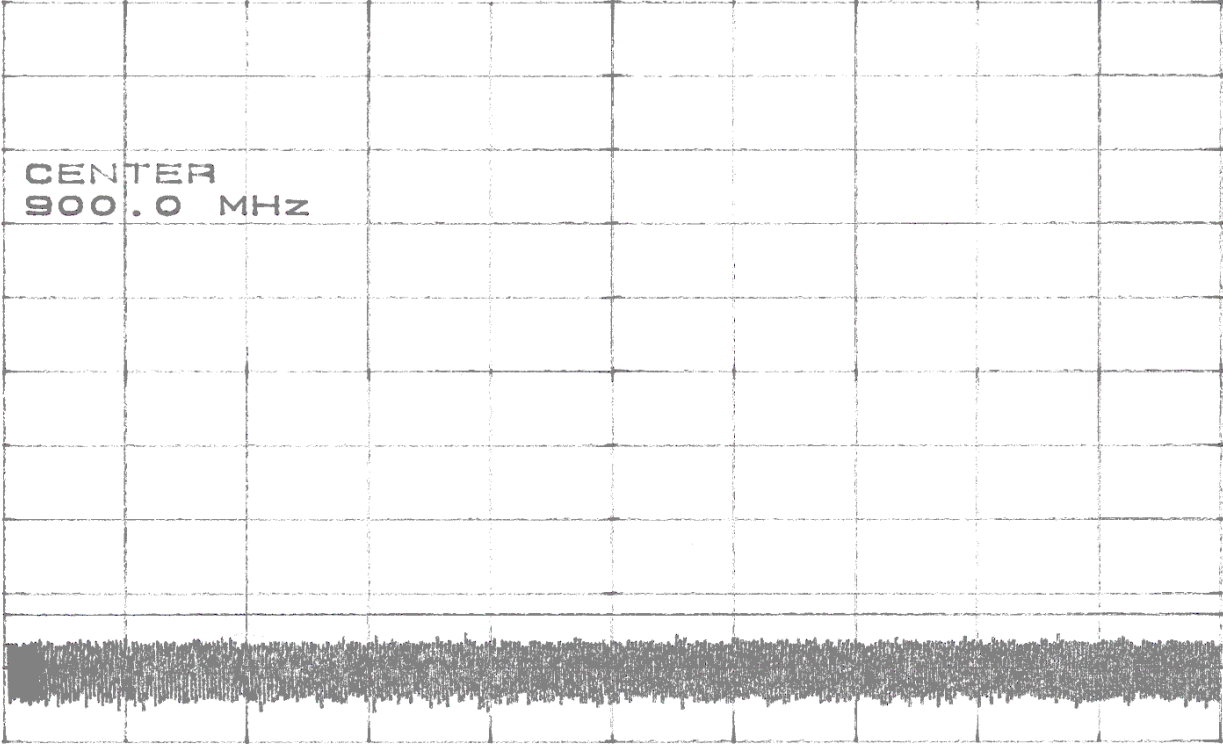
Honeywell	AW/CRITICAL NOTATION		
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ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO.	EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5  Figure 6-27. 40W HPA, 600 to 800 MHz
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 4.0dBm 10dB/ CENTER 900.0 MHz  CENTER 900.0MHz SPAN 200.0MHz *RBW 10kHz *VBW 1.0kHz SWP 50.0sec
	Figure 6-28. 40W HPA, 800 to 1000 MHz

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TEST PROCEDURES AND DATA:

TEST NO: 5

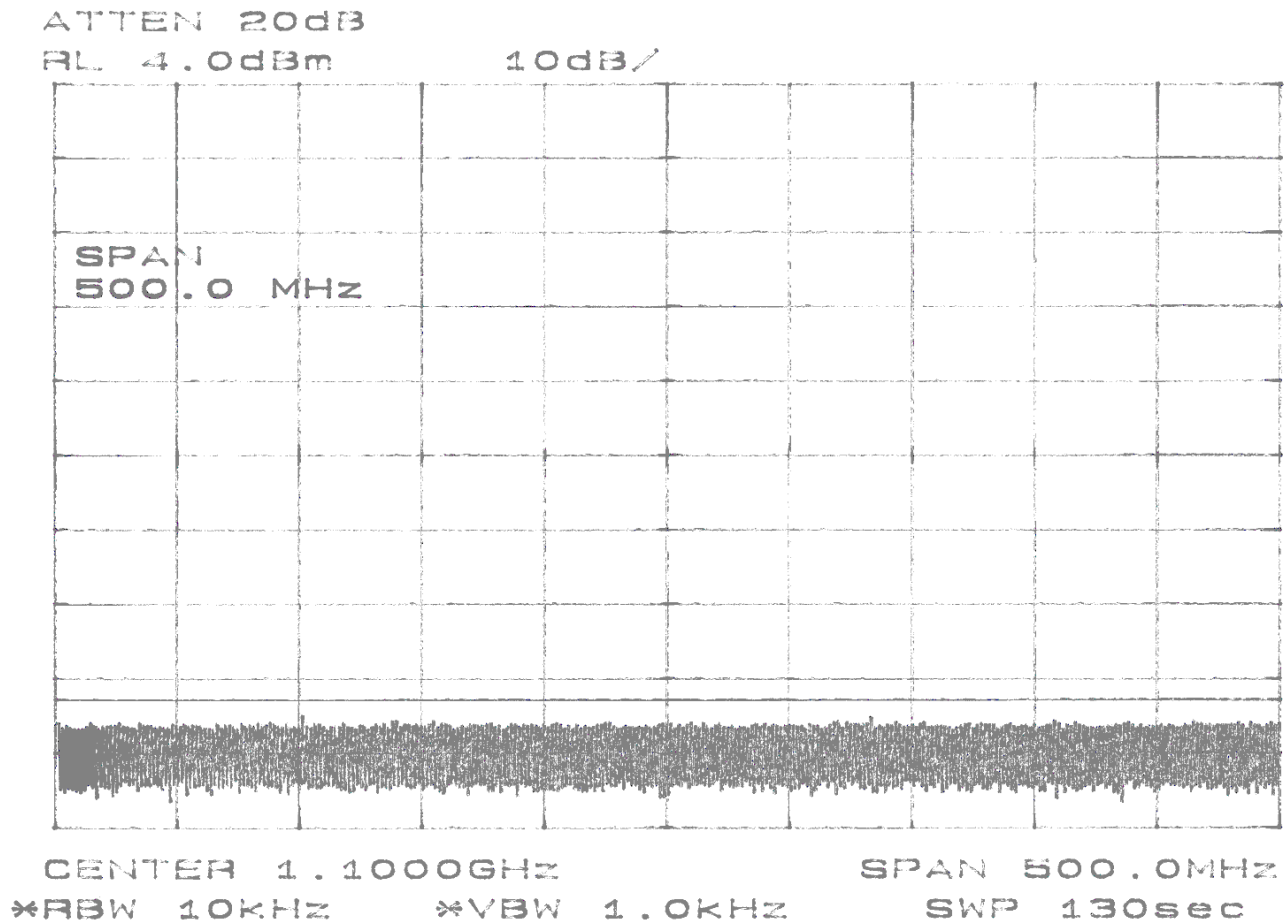
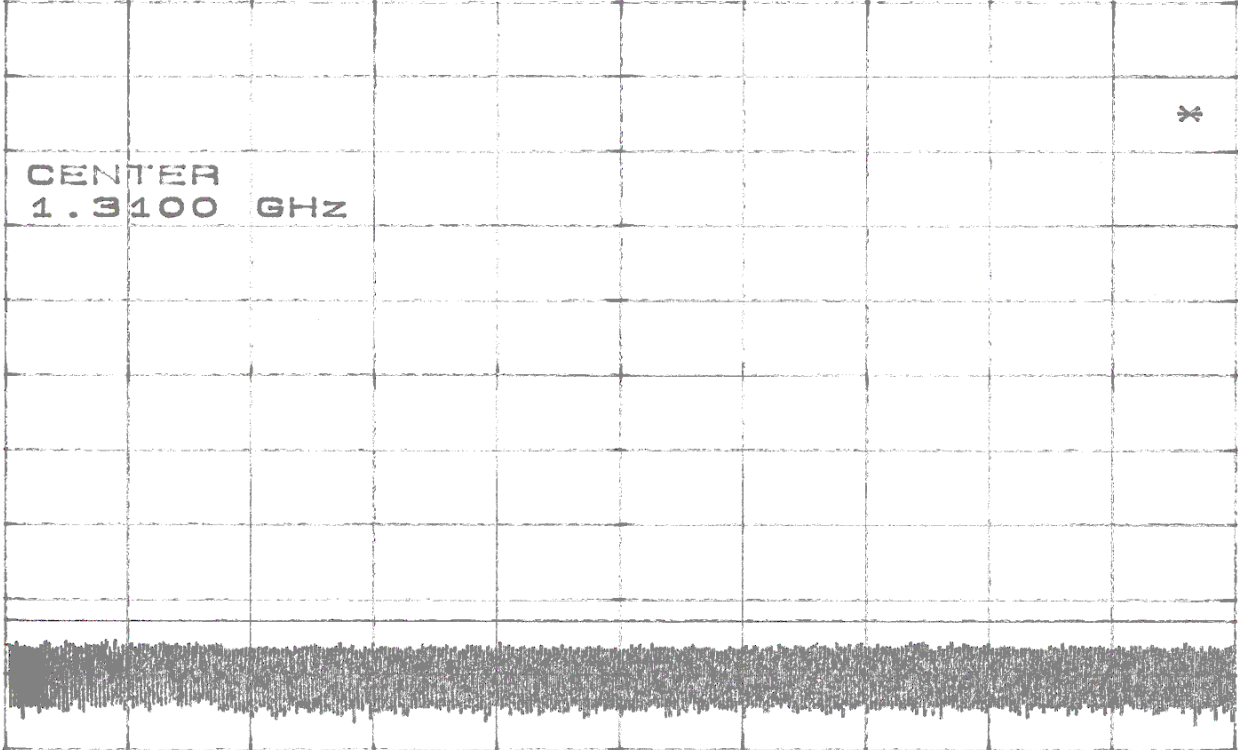


Figure 6-29. 40W HPA, 850 to 1350 MHz

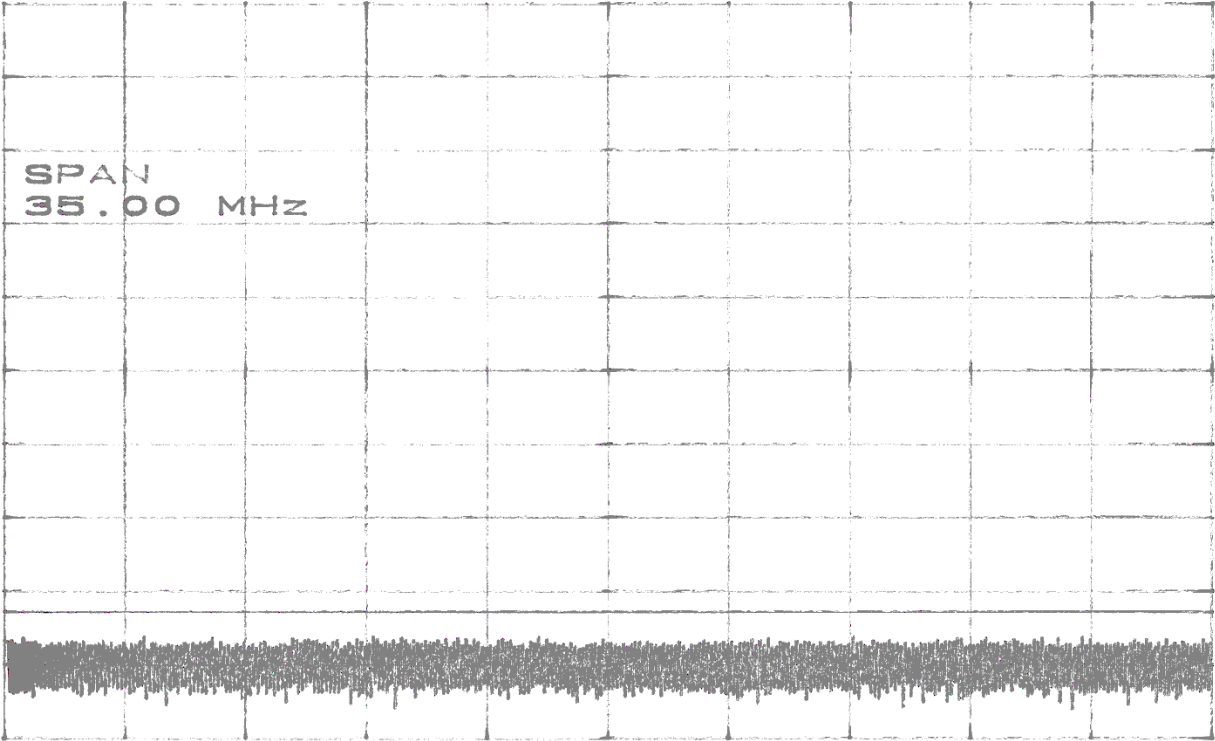
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 4.0dBm 10dB/  CENTER 1.3100 GHZ CENTER 1.3100GHZ SPAN 500.0MHz *RBW 10KHz *VBW 1.0KHz SWP 130sec
	Figure 6-30. 40W HPA, 1060 to 1560 MHz

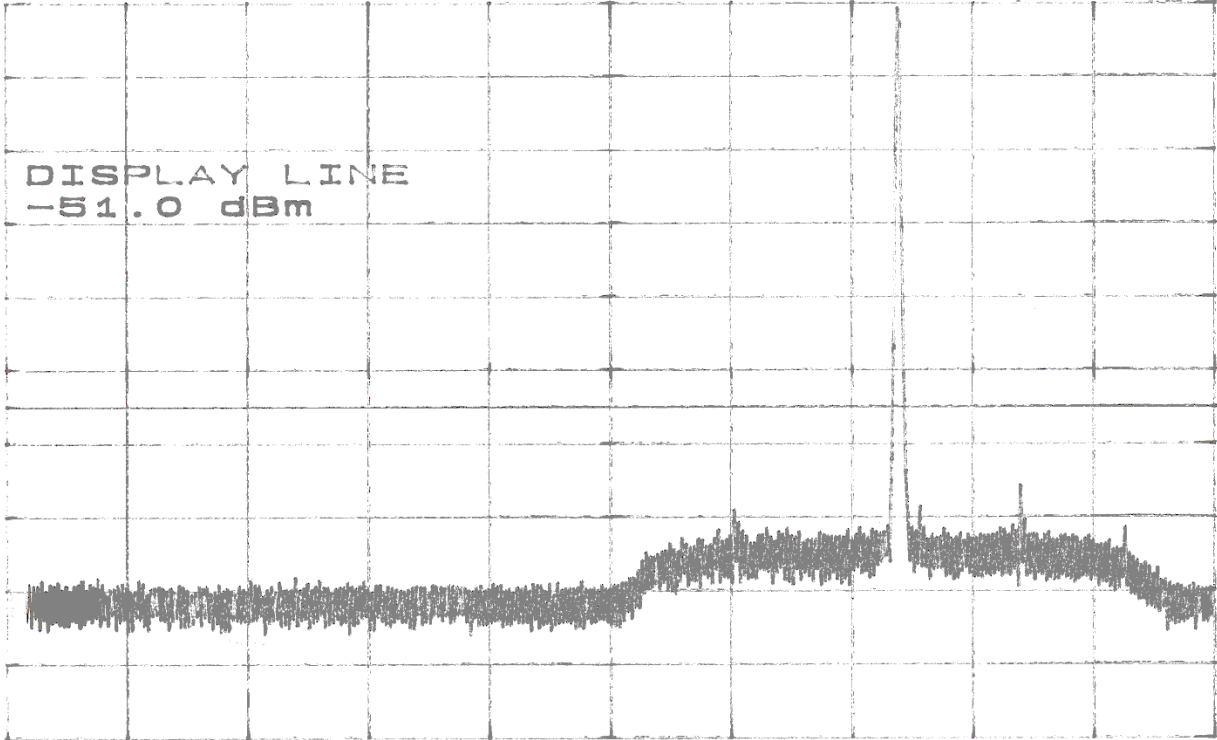
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 4.0dBm 10dB/ SPAN 35.00 MHz  CENTER 1.54200GHz SPAN 35.00MHz *RBW 10kHz *VBW 1.0kHz SWP 8.80sec
	Figure 6-31. 40W HPA, 1524.5 to 1559.5 MHz

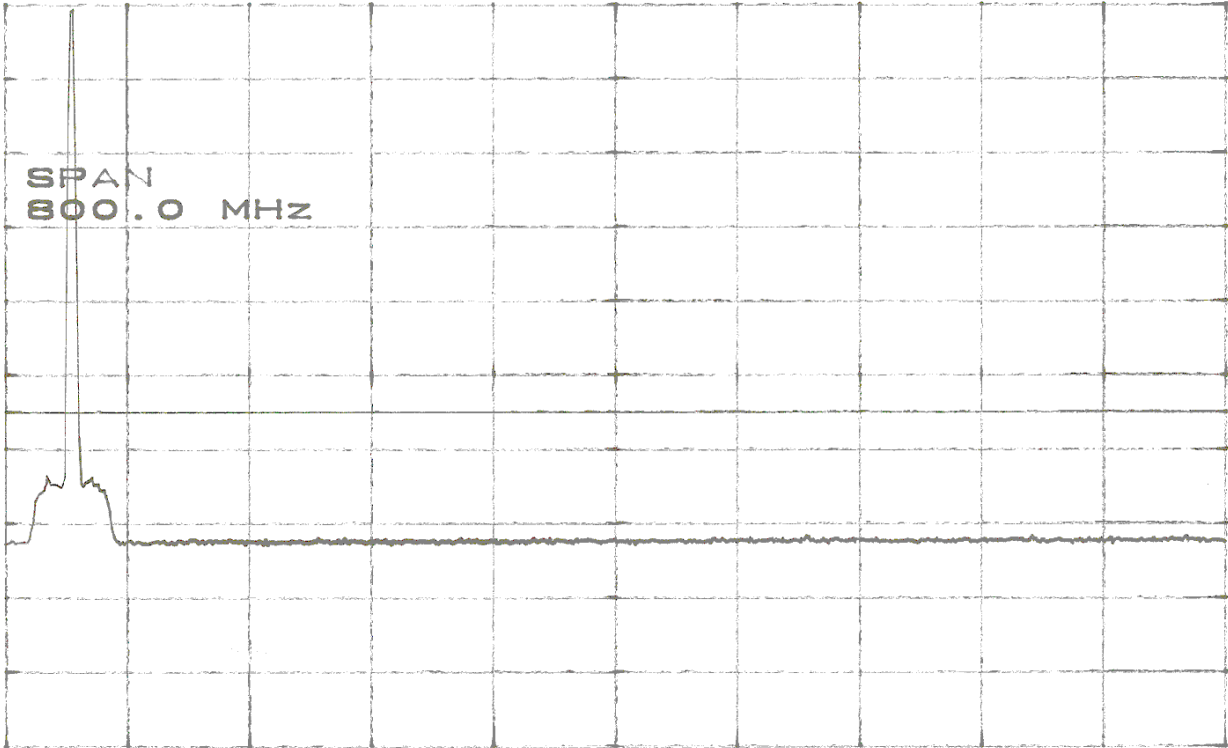
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 4.0dBm 10dB/  CENTER 1.6150GHz SPAN 120.0MHz *RBW 100kHz *VBW 3.0kHz SWP 1.00sec
	Figure 6-32. 40W HPA, 1555 to 1675 MHz

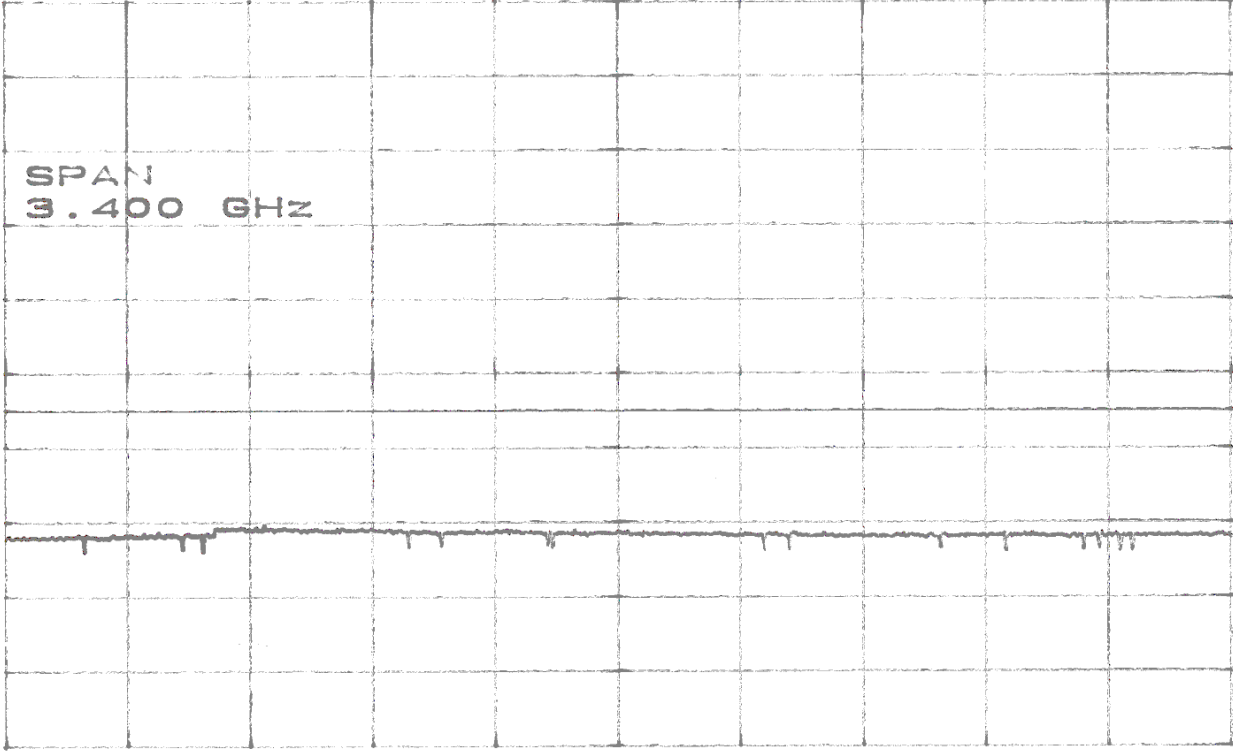
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 4.0dBm 10dB/ SPAN 800.0 MHz  CENTER 2.0000GHZ SPAN 800.0MHZ *RBW 1.0MHZ *VBW 3.0KHZ SWP 670ms
	Figure 6-33. 40W HPA, 1600 to 2400 MHz

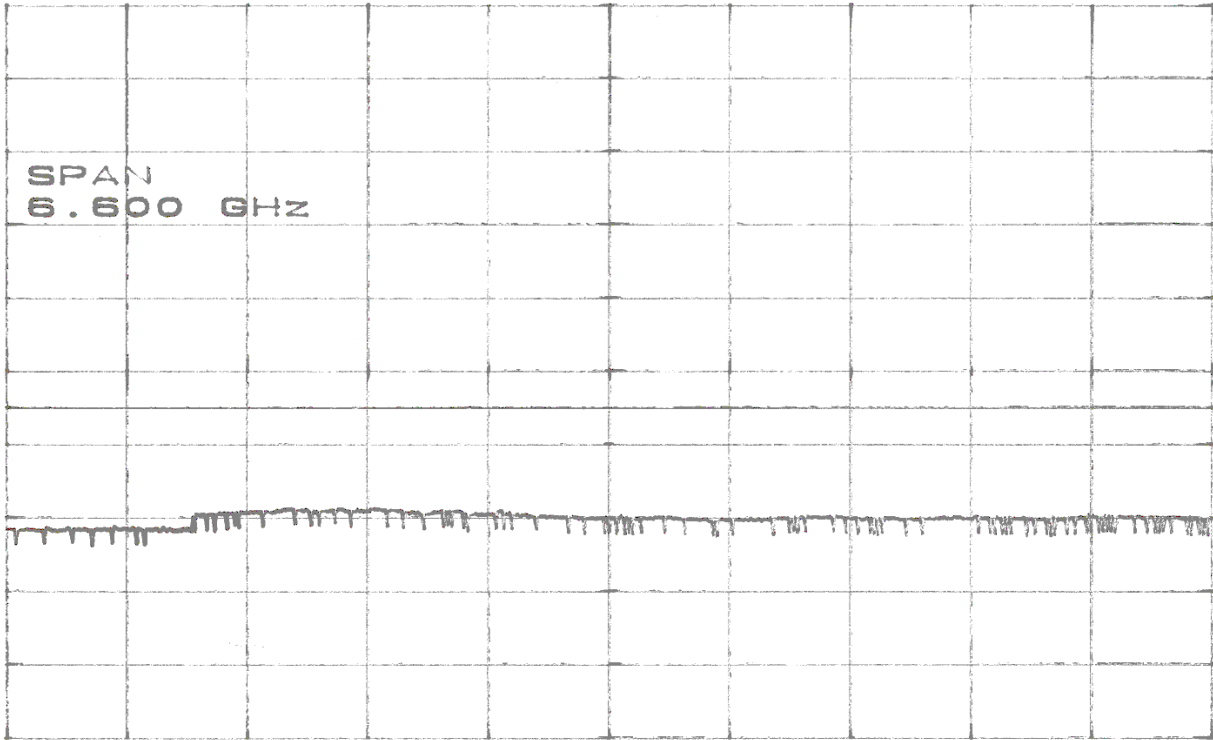
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 5 ATTEN 20dB RL 4.0dBm 10dB/ SPAN 3.400 GHz  CENTER 4.000GHz *RBW 1.0MHz *VBW 3.0kHz SPAN 3.400GHz SWP 2.90sec
	Figure 6-34. 40W HPA, 2300 to 5700 MHz

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REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 5
ATTEN 20dB RL 4.0dBm10dB/ SPAN 6.600 GHz  CENTER 8.700GHzSPAN 6.600GHz *RBW 1.0MHz *VBW 3.0kHzSWP 5.50sec			
Figure 6-35. 40W HPA, 5400 to 12000 MHz			

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	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA:	TEST NO: 5
	ATTEN 20dB RL 4.0dBm 10dB/ SPAN 6.200 GHz CENTER 14.900GHz SPAN 6.200GHz *RBW 1.0MHz *VBW 3.0kHz SWP 5.20sec	
Figure 6-36. 40W HPA, 11800 to 18000 MHz TEST PERFORMED BY: Pete Bailey DATE: 10/2/00		

Honeywell	AW/CRITICAL NOTATION		
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