MEASUREMENT AND TECHNICAL REPORT

POWERWAVE TECHNOLOGIES 2026 McGaw Avenue Irvine, CA 92614

DATE: 08 December 2000

This Report Concerns: Original Grant: X Class II Change:

Equipment Type: Seahawk 800, Model G3L-800-60

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes: No: X

Defer until:

Company Name agrees to notify the Commission by: N/A

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes: *No:

(*) FCC Part 2, Paragraphs, 2.1046, 2.1047, 2.1051, 2. 1053 and Part 22, Paragraph 22.917(e)

Report Prepared by: TÜV PRODUCT SERVICE

10040 Mesa Rim Road San Diego, CA 92121-2912

Phone: 858 546 3999 Fax: 858 546 0364

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Multi-c	ılti-channel power amplifier				
EUT Name	G3L-8	00-60				
Model No.:	G3L-8	00-60	Serial No.:			
Product Options:		N/A	•			
Configurations to be to	ested:	60 Watt output				
		·				
Power Requirement	S					
Voltage:	27 Vdc	(If battery powered, make	sure battery life	is sufficient to cor	nplete testing.)	
# of Phases:	N/A					
Current		Current				
(Amps/phase(max)):	30A	(Amps/phase(nor	ninal)):	N/A	<u></u>	
Other						

Typical Installation and/or Operating Environment

(ie. Hospital, Small Business, Industrial/Factory, etc.) Telcom

1.1 Product Description (continued)

EUT Power Cable										
□ Permanent OR □ Removable Length (in meters): □ Shielded OR □ Unshielded ☑ Not Applicable										
EUT Interface	EUT Interface Ports and Cables									
Interface Shielding						1	1			
Туре	Analog Digital Oty	\$ 9	/pe	Termination	Connector Type	Port Termination	Length (In meters)	Removable Pormanont		
					Metalized D- Sub	RF connections/dc power				
EUT Operating	g Modes to	be Tested	d k							
1. EUT System C	1. RF applied to reach 60 watt output									
LOI OVSICIII C	,ombonent	S								
Description	omponent	S	Model #	Se	erial #	FCC ID #				
Description	mplifier mod		•	800-60	erial #	FCC ID #				
Description Power ar	nplifier mod		•		erial #	FCC ID #				
Description	nplifier mod		G3L-			FCC ID #				
Description Power ar Support Equip	mplifier mod	ule <i>Mod</i>	G3L-	800-60		,				
Power ar Support Equip Description	mplifier mod oment erator	ule <i>Mod</i>	G3L-i le! # E4436B	800-60 Serial #	0103	,				
Power ar Support Equip Description HP Signal General	mplifier mod oment erator er	ule <i>Mod</i>	G3L-i le! # E4436B	800-60 Serial # US39260	0103	,				
Description Power ar Support Equip Description HP Signal General HP Power Meter RF Cables & C	mplifier mod ment erator er onnectors	ule <i>Mod</i>	G3L-i le! # E4436B	800-60 Serial # US39260	0103	,				
Description Power ar Support Equip Description HP Signal Gene HP Power Mete RF Cables & C Oscillator Free	erator er onnectors quencies Derived	Mod E44	G3L-: lel # E4436B 19B	Serial # US39260 GB4020	0103 1926	FCC ID #				
Description Power ar Support Equip Description HP Signal General HP Power Meter RF Cables & C	mplifier mod ment erator er onnectors quencies	Mod E44	G3L-i le! # E4436B	Serial # US39260 GB4020	0103 1926	FCC ID #				
Description Power ar Support Equip Description HP Signal Gene HP Power Mete RF Cables & C Oscillator Fre Frequency	mplifier mod ment erator er onnectors quencies Derived Frequency 15 MHz	Mod E44	G3L- lel # E4436B 19B	Serial # US39260 GB4020	0103 1926 Desc	FCC ID #				
Description Power ar Support Equip Description HP Signal Gene HP Power Mete RF Cables & C Oscillator Free Frequency 15 MHz	mplifier mod ment erator er onnectors quencies Derived Frequency 15 MHz	Mod E44 ²	G3L- lel # E4436B 19B	Serial # US39260 GB4020	0103 1926 Desc	FCC ID #				

1.1 Product Description (continued)

Power Line Filters				
Manufacturer	Model #	Location in L	EUT	
Spectrum Control	52-978-107-FA3	Multifunction	n Board	
Panasonic	ELK-E103FA	Multifunction	n Board	
Critical EMI Compone	ents (Capacitors, ferrite	es, etc.)		
Description	Manufacturer	Part # or Value	Qty	Component # / Location
Ferrite	Fair-Rite	2743021447	10	FB1-FB10 Multifunction Bd
Bandpass Filter	Panasonic	ELK-E103FA		FL17/Multifunction Bd

EMC Critical Detail -- Describe other EMC Design details used to reduce high frequency noise.

Inductive filters, capacitive filters, noise filters

1 GENERAL INFORMATION (continued)

1.2 Related Submittal/Grant

None

1.3 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system are:

None

1.4 Test Methodology

Purpose of Test: To demonstrate compliance with the ANSI C63.4 setup.

Test Performed: X 1. Conducted Emissions, FCC Part 2, Paragraphs 2.1047, 2.1051 and Part 22, Paragraph

22.917(e)

2. Radiated Emissions EN55022: 1992 Class B limit, 30 - 1,000 MHz, 10 meters

X 3. Radiated Emission per FCC Part 2, Paragraph 2.153

4. Engineering evaluations

5. Frequency Stability, Part 2, Paragraph 2.995, and Part 87, Paragraph 87.133

X RF Output Power, Part 2, Paragraph 1.1046

Both Conducted and radiated testing were performed according to the procedures in FCC/ANSI C63.4 and CSA 108.8 - M1983. Radiated testing was performed at an antenna-to-EUT distance of 3 meters (1 - 10 GHz).

1.5 Test Facility

The open area test site and conducted measurement data were tested by:

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone: 619 546 3999 Fax: 619 546 0364

The Test Site Data and performance comply with ANSI 63.4 and are registered with the FCC, 7435 Oakland Mills Rd, Columbia Maryland 21046. All Measurement Data is acquired according to the content of FCC Measurement Procedure and ANSI C63.4, unless supplemented with additional requirements as noted in the test report.

1.6 Part 2 Requirements

Multi-channel power amplifier.

Microprocessor Model Number: MC68HC812A4

DC voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range. 27 Vdc / 30 A

Equipment does not employ digital modulation techniques.

2. SYSTEM TEST CONFIGURATION

2.1 Justification

The Seahawk was initially tested for FCC emission in the following configuration:

See Block Diagram.

2.2 EUT Exercise Software

None

2.3 Special Accessories

None

2.4 Modification

None

2.5 Configuration of Tested System

See Block Diagram.

3 RADIATED EMISSION EQUIPMENT/DATA

The following data lists the significant emission frequencies, measured levels, correction factor (which includes cable and antenna corrections), the corrected reading, and the limit.

See following page(s).

See test setup photos for radiated emissions test setup.

Radiated Electromagnetic Emissions



20 °C Test Report #: S0467 Run 01 Test Area: Site 3 Roof Temperature: % Test Date: 10-Nov-2000 Relative Humidity: Test Method: Seahawk G3L-800-60004 kPa EUT Power: 29 Vdc Air Pressure: 100.1 EUT Model#: 1 of 3 Page: EUT Serial #: Level Key Powerwave Manufacturer: Pk - Peak Nb - Narrow Band 800 MHz RF Amplifier EUT Description: Qp - QuasiPeak Bb - Broad Band Notes: 60 Watts rated power Av - Average

FREQ	LEVEL	CABLE / ANT / PREAMP	FINAL	POL/HGT/AZ	DELTA1 (dB)	DELTA2 (dB)
(MHz)	(dBuV)	(dB) (dB\m) (dB)	()	(m) (DEG)	FCC Part 24.238	FCC Part 90.210
Antenna: LPA	A- 31 <i>4</i> 6					
881.00	38.5 Av	2.3 / 23.2 / 0.0	64.0	H / 1.0 / 0.0	N/A	N/A
881.00	41.4 Av	2.3 / 23.2 / 0.0	66.9	V / 1.0 / 0.0	N/A	N/A
881.00	55.7 Pk	2.3 / 23.2 / 0.0	81.2	V / 1.0 / 0.0	-1.0	-1.0
869.00	56.0 Pk	2.4 / 23.2 / 0.0	81.6	V / 1.0 / 0.0	-0.6	-0.6
869.00	44.8 Av	2.4 / 23.2 / 0.0	70.4	V / 1.0 / 0.0	N/A	N/A
869.00	51:2 Pk	2.4 / 23.2 / 0.0	76.8	H/1.0/0.0	-5.4	-5.4
869.00	41.5 Av	2.4 / 23.2 / 0.0	67.1	H/1.0/0.0	N/A	N/A
894.00	53.8 Pk	2.4 / 23.2 / 0.0	79.4	H/1.0/0.0	-2.8	-2.8
894.00	40.0 Av	2.4 / 23.2 / 0.0	65.6	H/1.0/0.0	N/A	N/A
894.00	56.0 Pk	2.4 / 23.2 / 0.0	81.6	V / 1.0 / 0.0	-0.6	-0.6
894.00	46.1 Av	2.4 / 23.2 / 0.0	71.7	V/1.0/0.0	N/A	N/A
Antenna: Hor	rn PN:453 3 m	eters				
PreAmp: 38 o	dB Preamp					
Attenuator: P	N:657 6 ft					
Below are an	nbient measure	ements - not detectable emiss	ions			
1788.00						
	48.3 Pk	4.0 / 27.9 / 39.9	40.3	V / 1.0 / 0.0	-41.9	-41.9
2682.00	48.3 Pk 50.3 Pk	T	40.3 47.1	V/1.0/0.0 V/1.0/0.0	-41.9 -35.1	-41.9 -35.1
	-	4.0 / 27.9 / 39.9		 		
2682.00	50.3 Pk	4.0 / 27.9 / 39.9 5.3 / 31,0 / 39.5	47.1	V / 1.0 / 0.0	-35.1	-35.1
2682.00 3576.00	50.3 Pk 48.4 Pk	4.0 / 27.9 / 39.9 5.3 / 31.0 / 39.5 6.7 / 33.1 / 39.6	47.1 48.6	V/1.0/0.0 V/1.0/0.0	-35.1 -33.6	-35.1 -33.6
2682.00 3576.00 4470.00	50.3 Pk 48.4 Pk 48.4 Pk	4.0 / 27.9 / 39.9 5.3 / 31.0 / 39.5 6.7 / 33.1 / 39.6 7.3 / 33.5 / 40.6	47.1 48.6 48.6	V/1.0/0.0 V/1.0/0.0 V/1.0/0.0	-35.1 -33.6 -33.6	-35.1 -33.6 -33.6
2682.00 3576.00 4470.00 5364.00	50.3 Pk 48.4 Pk 48.4 Pk 47.1 Pk	4.0 / 27.9 / 39.9 5.3 / 31.0 / 39.5 6.7 / 33.1 / 39.6 7.3 / 33.5 / 40.6 7.5 / 35.9 / 38.8	47.1 48.6 48.6 51.6	V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0	-35.1 -33.6 -33.6 -30.6	-35.1 -33.6 -33.6 -30.6
2682.00 3576.00 4470.00 5364.00 6258.00	50.3 Pk 48.4 Pk 48.4 Pk 47.1 Pk 51.1 Pk	4.0 / 27.9 / 39.9 5.3 / 31.0 / 39.5 6.7 / 33.1 / 39.6 7.3 / 33.5 / 40.6 7.5 / 35.9 / 38.8 7.8 / 36.6 / 37.2	47.1 48.6 48.6 51.6 58.3	V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0	-35.1 -33.6 -33.6 -30.6 -23.9	-35.1 -33.6 -33.6 -30.6 -23.9
2682.00 3576.00 4470.00 5364.00 6258.00 7152.00	50.3 Pk 48.4 Pk 48.4 Pk 47.1 Pk 51.1 Pk 50.1 Pk	4.0 / 27.9 / 39.9 5.3 / 31.0 / 39.5 6.7 / 33.1 / 39.6 7.3 / 33.5 / 40.6 7.5 / 35.9 / 38.8 7.8 / 36.6 / 37.2 8.5 / 37.4 / 36.5	47.1 48.6 48.6 51.6 58.3 59.5	V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0	-35.1 -33.6 -33.6 -30.6 -23.9 -22.7	-35.1 -33.6 -33.6 -30.6 -23.9 -22.7
2682.00 3576.00 4470.00 5364.00 6258.00 7152.00 8046.00	50.3 Pk 48.4 Pk 48.4 Pk 47.1 Pk 51.1 Pk 50.1 Pk 50.5 Pk	4.0 / 27.9 / 39.9 5.3 / 31.0 / 39.5 6.7 / 33.1 / 39.6 7.3 / 33.5 / 40.6 7.5 / 35.9 / 38.8 7.8 / 36.6 / 37.2 8.5 / 37.4 / 36.5 9.4 / 37.1 / 36.9	47.1 48.6 48.6 51.6 58.3 59.5 60.1	V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0	-35.1 -33.6 -33.6 -30.6 -23.9 -22.7 -22.1	-35.1 -33.6 -33.6 -30.6 -23.9 -22.7 -22.1
2682.00 3576.00 4470.00 5364.00 6258.00 7152.00 8046.00 8940.00	50.3 Pk 48.4 Pk 48.4 Pk 47.1 Pk 51.1 Pk 50.1 Pk 50.5 Pk 50.8 Pk	4.0 / 27.9 / 39.9 5.3 / 31.0 / 39.5 6.7 / 33.1 / 39.6 7.3 / 33.5 / 40.6 7.5 / 35.9 / 38.8 7.8 / 36.6 / 37.2 8.5 / 37.4 / 36.5 9.4 / 37.1 / 36.9 10.1 / 39.9 / 37.4	47.1 48.6 48.6 51.6 58.3 59.5 60.1 63.3	V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0	-35.1 -33.6 -33.6 -30.6 -23.9 -22.7 -22.1 -18.9	-35.1 -33.6 -33.6 -30.6 -23.9 -22.7 -22.1 -18.9
2682.00 3576.00 4470.00 5364.00 6258.00 7152.00 8046.00 8940.00	50.3 Pk 48.4 Pk 48.4 Pk 47.1 Pk 51.1 Pk 50.1 Pk 50.5 Pk 50.8 Pk 50.8 Pk	4.0 / 27.9 / 39.9 5.3 / 31.0 / 39.5 6.7 / 33.1 / 39.6 7.3 / 33.5 / 40.6 7.5 / 35.9 / 38.8 7.8 / 36.6 / 37.2 8.5 / 37.4 / 36.5 9.4 / 37.1 / 36.9 10.1 / 39.9 / 37.4 10.1 / 39.9 / 37.4	47.1 48.6 48.6 51.6 58.3 59.5 60.1 63.3	V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 V/1.0/0.0 H/1.0/0.0	-35.1 -33.6 -33.6 -30.6 -23.9 -22.7 -22.1 -18.9 -18.9	-35.1 -33.6 -33.6 -30.6 -23.9 -22.7 -22.1 -18.9

Tested by:

J Owen

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Radiated Electromagnetic Emissions



Test Area: Site 3 Roof Temperature: 20 ۰C S0467 Run 01 Test Report #: Test Method: Par % 10-Nov-2000 Relative Humidity: Test Date: **EUT Power:** 29 Vdc Air Pressure: 100.1 kPa Seahawk G3L-800-60004 EUT Model #: Page: 2 of 3 EUT Serial #: Level Key Manufacturer: Powerwave Nb - Narrow Band Pk - Peak **EUT Description:** 800 MHz RF Amplifier Bb - Broad Band Qp - QuasiPeak Notes: 60 Watts rated power Av - Average

FREQ	LEVEL	CABLE / ANT / PREAMP	FINAL	POL/HGT/AZ	DELTA1 (dB)	DELTA2 (dB)
(MHz)	(dBuV)	(dB) (dB\m) (dB)	0	(m) (DEG)	FCC Part 24.238	FCC Part 90.210
5364.00	46.4 Pk	7.5 / 35.9 / 38.8	50.9	H/1.0/0.0	-31.3	-31.3
4470.00	47.6 Pk	7.3 / 33.5 / 40.6	47.8	H/1.0/0.0	-34.4	-34.4
Below are em	nission measu	rements				
3576.00	53.7 Pk	6.7 / 33.1 / 39.6	53.9	H/1.0/0.0	-28.3	-28.3
2682.00	56.9 Pk	5.3 / 31.0 / 39.5	53.7	H/1.0/0.0	-28.5	-28.5
Below is an a	ımbient meası	rement - no detectable emiss	ions			
1788.00	49.1 Pk	4.0 / 27.9 / 39.9	41.1	H/1.0/0.0	-41.1	-41.1
Only detectal	ble emissions	recorded below				
Mid Channel						
2643.00	62.7 Pk	5,2 / 30,9 / 39,5	59.3	H / 1.0 / 0.0	-22.9	-22.9
2643.00	66.5 Pk	5.2 / 30.9 / 39.5	63.1	V / 1.0 / 0.0	-19.1	-19.1
Low Channel						
3476.00	50.3 Pk	6.6 / 32.7 / 39.4	50.2	H/1.0/0.0	-32.0	-32.0
3476.00	53.7 Pk	6.6 / 32.7 / 39.4	53.6	V / 1.0 / 0.0	-28.6	-28.6
2607.00	55.5 Pk	5.2 / 30.8 / 39.6	51.9	V / 1.0 / 0.0	-30.3	-30.3

Tested by:	J Owen	- In Weder	10
- · · · · · · · · · · · · · · · · · · ·	Printed	Signature	,,,

Emissions Test Conditions: RADIATED EMISSIONS, FCC Part 2, Paragraph 2.1053

The RADIATED EMISSIONS measurements were performed at the following test location :

☐ - Test not applicable

■ - Roof (Small Open Area Test Site), San Diego

Testing was performed at a test distance of:

- □ 1 meters
- - 3 meters
- ☐ 10 meters

Test Equipment Used:

rest Equipment osed.					
Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
3115	453	Antenna, Double Ridge Guide	EMCO	9412-4363	10/01
AMF-5D-010180-35-10P	719	Pre-amplifier (38 dB gaine, 1 - 18 GHz	EMCO	549460	*
8566B	407	Spectrum Analyzer	Hewlett Packard	211500842	11/02
85662B	406	Spectrum Analyzer Display	Hewlett Packard	2112A02185	11/02
AA-190-6.00.0	657	HF Cable	Micropore		
Remarks: (*) Verified					

Field Strength Calculation

If a preamplifier was used during the Radiated Emission Testing, it is required that the amplifier gain must be subtracted from the Spectrum Analyzer (Meter) Reading. In addition, a correction factor for the antenna, cable used and a distance factor, if any, must be applied to the Meter Reading before a true field strength reading can be obtained. In the automatic measurement, these considerations are automatically presented as a part of the print out. In the case of manual measurements and for greater efficiency and convenience, instead of using these correlation factors for each meter reading, the specification limit was modified to reflect these correlation factors at each frequency value so that the meter readings can be compared directly to the modified specification limit. This modified specification limit is referred to as the "Corrected Meter Reading Limit" or simply the CMRL, which is the actual field strength present at the antenna. The quantity can be derived in the following manner:

Corrected Meter Reading Limit (CMRL) = SAR + AF + CL - AG - DC

Where, SAR = Spectrum Analyzer Reading

AF = Antenna Factor

CL = Cable Loss

AG = Amplifier Gain (if any)
DC = Distance Correction (if any)

Assume the following situation: A meter reading of 29.4 dBuV was obtained from a Class A computing device measured at 83 MHz. Assume an antenna factor of 9.2 dB, a cable loss of 1.4 dB and amplifier gain of 20.0 dB at 83 MHz. The final field strength would be determined as follows:

```
CMRL = 29.4 dBuV + 9.2dB = 1.4 dB - 20 dB/M - 0.0 dB

CMRL = 20.0 dBuV/M
```

This result is well below the FCC and CSA Class A limit of 29.5 dbuV/m at 83 MHz.

For the manual mode of measurement, a table of corrected meter reading limit was used to permit immediate comparison of the meter reading to determine if the measure emission amplitude exceeded the specification limit at that specific frequency.

4 CONDUCTED EMISSION EQUIPMENT/DATA

See following page(s).

Emissions Test Conditions: CONDUCTED EMISSIONS, FCC Part 2, 2.1046, 2.1047, 2.1051 and Part 22, Paragraph 22.917(e)

The RADIATED EMISSIONS measurements were performed at the following test location:
□ - Test not applicable
■ - SR-3, Shielded Room, 12' x 20' x 8', Metal Chamber
Test Equipment Used :
rest Equipment Osed .
Signal Generator, Hewlett Packard, Model HPE4436B, S/N US39260103, cal 08/02
Signal Generator, Hewlett Packard, Model HPE4436B, S/N US40051726, cal 08/02
Signal Generator, Hewlett Packard, Model HPE4436B, S/N US40051734, cal 09/01
Combiner, KDI, Model KDI D336LS, NCR
AT1, Narda, Model NARDA 769-30, S/N 17328, NCR
AT2, Narda, Model NARDA 769-20, S/N 5793, NCR DC1, Hewlett Packard, Model HP778D, S/N 769-30, NCR
PS1, Hewlett Packard, Model HP8481D, S/N US37290516, cal 07/01
PM1, Hewlett Packard, Model HPE4419, S/N GB40201926, cal 07/01
SA, Hewlett Packard, Model HP8294E, P/N 430, cal 05/01
Remarks:

15: 58: 22 NOV ØB, 2ØØØ MKR 863.18 MHz REF 5Ø.Ø dBm AT 1Ø dB -16.91 dBm PEAK LOG 1Ø dB/ OFFST 5Ø.Ø dB DL -13.0dBm VA SB SC FC CORR Manhalmand phymenopomen CENTER 882.06 MHz SPAN 5Ø.ØØ MHz

#RES BW 1ØØ kHz VBW 1ØØ kHz

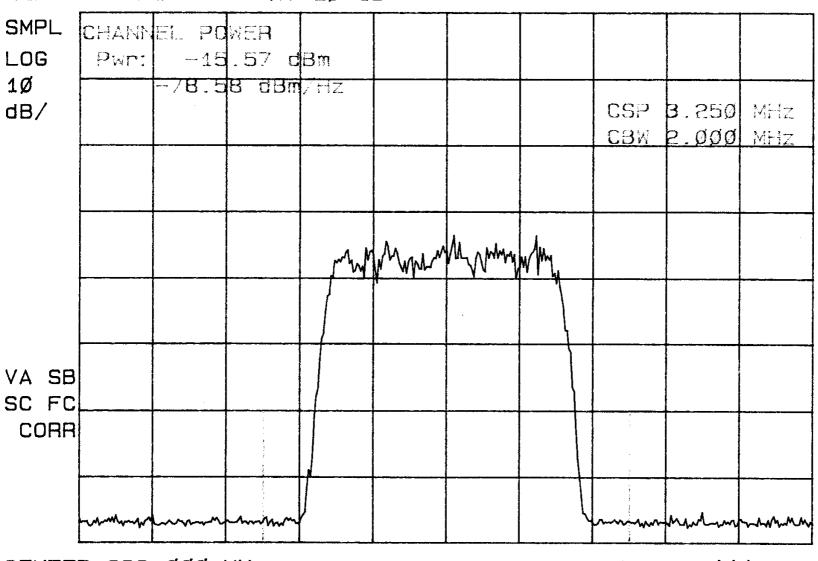
15

SWP 2Ø.Ø msec

16: 57: 45 NOV Ø8, 2ØØØ

Input Pawer

REF 5.7 dBm AT 2Ø dB



CENTER 869.000 MHz #RES BW 3Ø kHz #VBW 3ØØ kHz

SPAN 4.ØØØ MHz SWP 2Ø.Ø msec /6 ,16: 54: 27 NOV ØB, 2ØØØ

Input Power

REF 5.7 dBm AT 20 dB

HEI J	./ (1)			בש ט						
SMPL	CHANN	EL PO	WER							
LOG	Pwr:	-15	.14 d	Bm						
1Ø		-78.1	5 d Bm	7HZ						
dB/									3.25Ø	
								CBM	2.000	MHZ
	<u>, </u>									
				My	Mymm	muym	W^M			
							٩			
				- 						
VA SB										
SC FC CORR			<u>. </u>							
רורוטט								,		
							- \			
	\~~~~~~	mmm	mmm	}			٨	maha		M.M.W.
				·						

CENTER 881.000 MHz

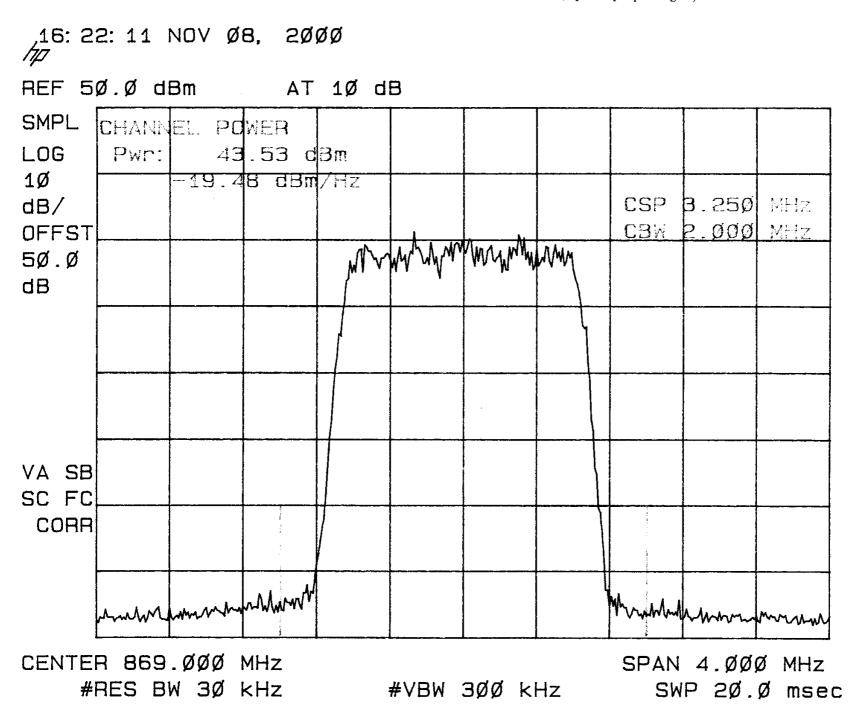
SPAN 4.ØØØ MHz #RES BW 3Ø kHz #VBW 3ØØ kHz SWP 2Ø.Ø msec 17 Input Power

16: 5Ø: 56 NOV Ø8, 2ØØØ MKR 894.ØØØ MHz REF 5.7 dBm AT 2Ø dB -27.37 dBm SMPL CHANNEL POWER LOG | Pwr: | -15.44 dBm 1Ø -78.45 **dBm**/Hz CSP B.250 MHz dB/ CBW 2.000 MHz My many make the second of the VA SB SC FC CORR

CENTER 894.000 MHz #RES BW 30 kHz

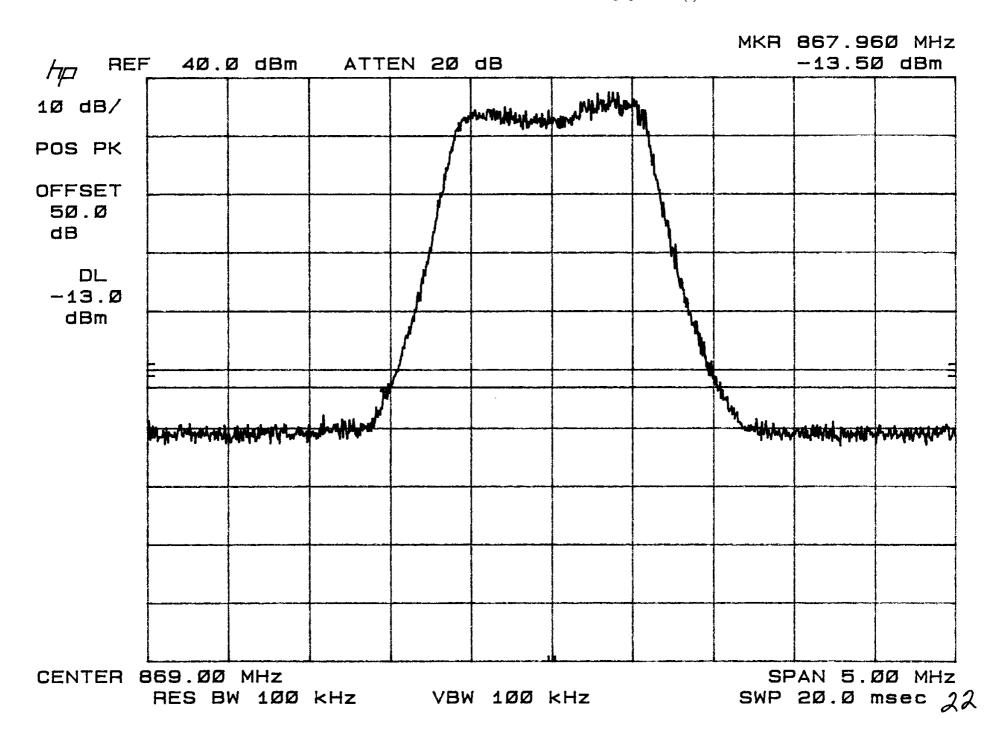
#VBW 3ØØ kHz

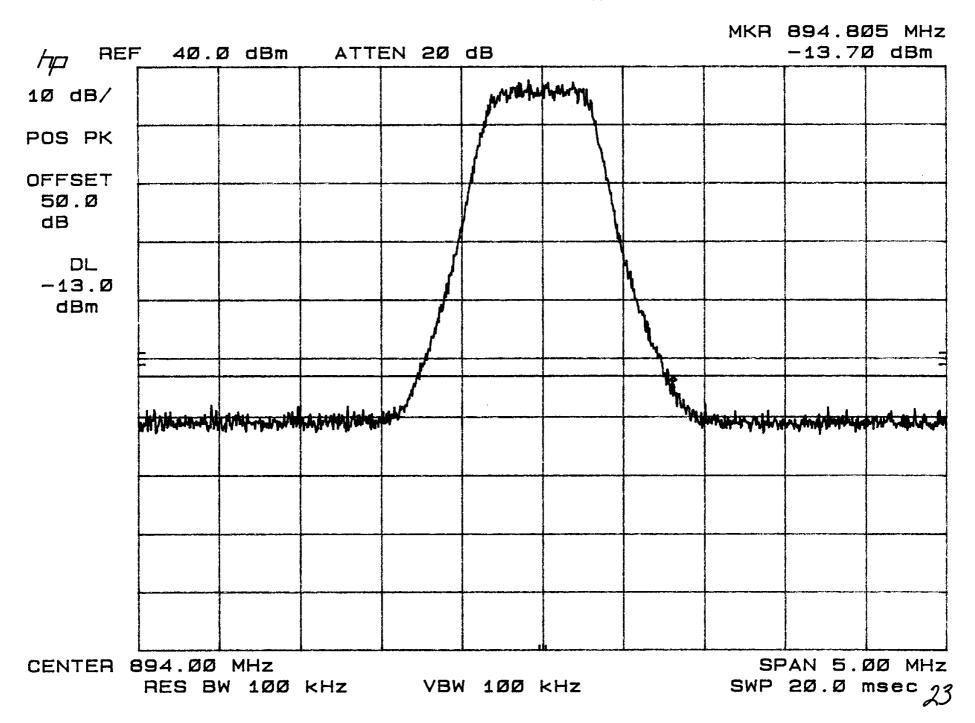
SPAN 4.ØØØ MHz SWP 20.0 msec

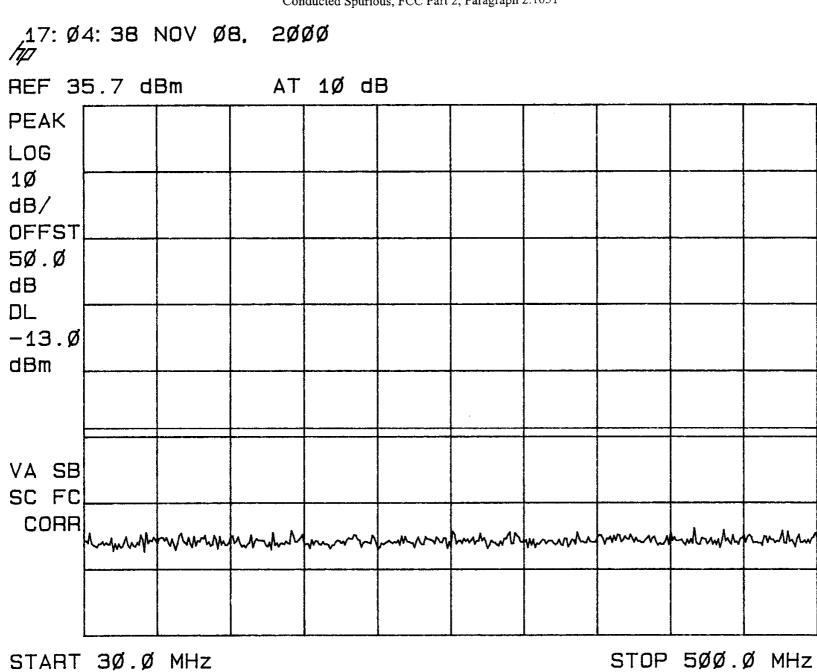


16: 19: Ø4 NOV Ø8, 2ØØØ REF 5Ø.Ø dBm AT 1Ø dB SMPL CHANNEL POWER LOG Pwr: 43.74 dBm 1Ø -19.2/ dBm/Hz CSP 3.250 MHz dB/ CBW E. ØØØ MHZ **OFFST** 5Ø.Ø dB VA SB SC FC CORR CENTER 881.ØØØ MHz SPAN 4.ØØØ MHz SWP 20.0 msec 20#RES BW 30 kHz #VBW 3ØØ kHz

16: 15: 57 NOV Ø8, 2ØØØ REF 5Ø.Ø dBm AT 1Ø dB SMPL CHANNEL POWER 43.57 dBm LOG Pwr: 1Ø -19.44 dBm/Hz CSP B.250 MHz dB/ P.ØØØ MHz CBW OFFST "<u>Landayah</u>mah Landahah Ma 5Ø.Ø dB VA SB SC FC CORR CENTER 894.000 MHz SPAN 4.ØØØ MHz #VBW 3ØØ kHz SWP 2Ø.Ø msec #RES BW 30 kHz



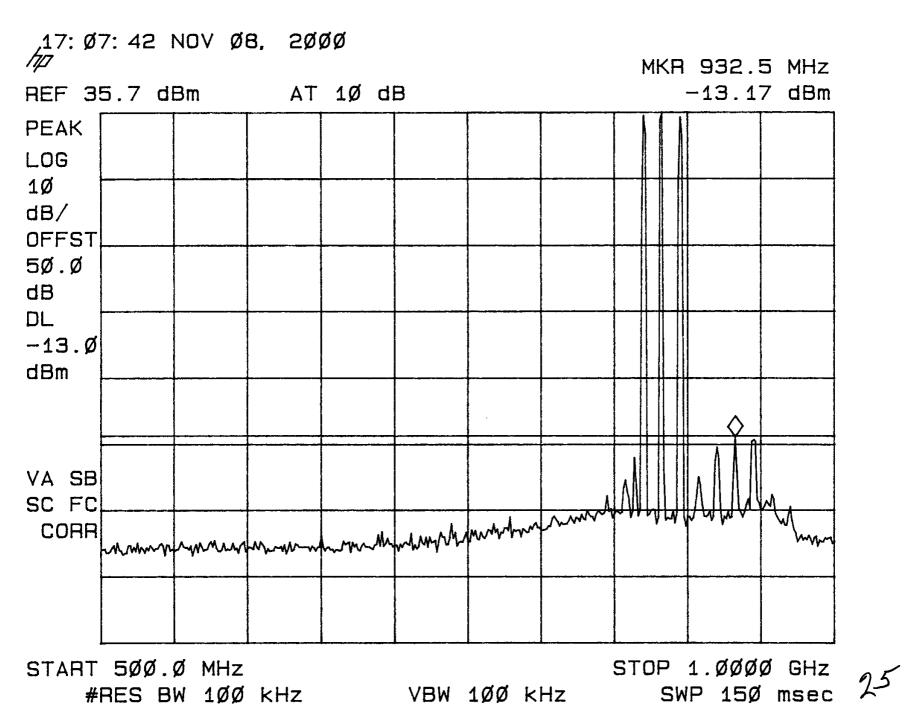


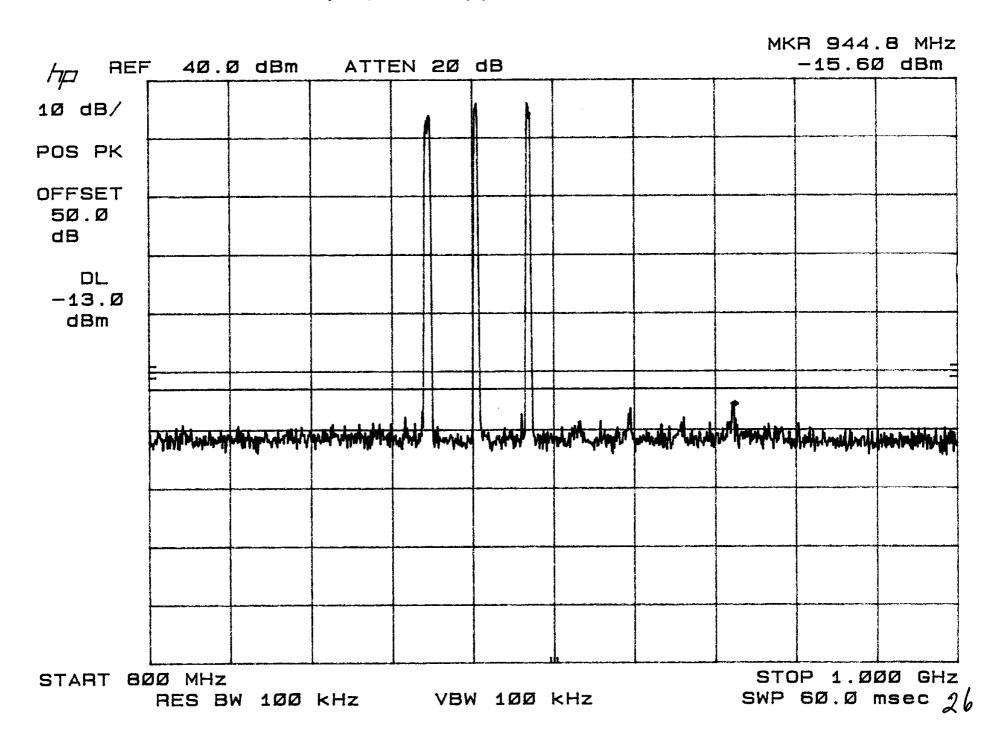


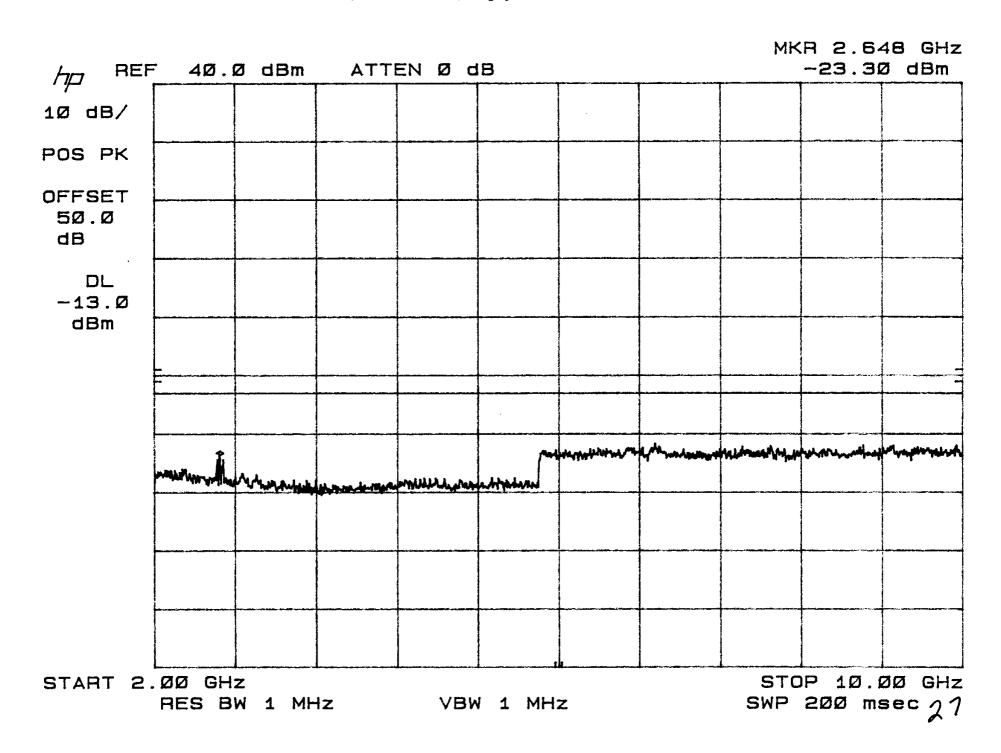
#RES BW 100 kHz

VBW 1ØØ kHz

STOP 500.0 MHz SWP 141 msec







7 SIGNATURE PAGE

GENERAL REMARKS:

SUMMARY:

All tests according FCC Part 2, Paragraphs, 2.1046, 2.1047, 2.1051, 2.1053 and Part 22, Paragraph 22.917(e) were.

■ - Performed

The Equipment Under Test

- - Fulfills the requirements of *FCC Part 2, Paragraphs, 2.1046, 2.1047, 2.1051, 2. 1053 and Part 22, Paragraph 22.917(e)*.
- TÜV PRODUCT SERVICE, INC. -

Jim Owe

Responsible Engineer:

Jim Owen (EMC Engineer)