MEASUREMENT AND TECHNICAL REPORT

POWERWAVE TECHNOLOGIES 2026 McGaw Avenue Irvine, CA 92614

DATE: 25 January 2000

| Class II Chan | ge: | | | | |
|---|--|--|--|--|--|
| · | | | | | |
| del MCA9129-120, S/N C0 | 00001EJH | | | | |
| | | | | | |
| | No: X | | | | |
| Defer until: | | | | | |
| NT/A | | | | | |
| | on that data | | | | |
| mat me grant can be issued | on that date. | | | | |
| *No: | | | | | |
| | | | | | |
| .1053, and Part 22, Parag | raph 22.917 | | | | |
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| Report Prepared by: TÜV PRODUCT SERVICE | | | | | |
| V PRODUCT SERVI | .CE | | | | |
| | CE | | | | |
| 040 Mesa Rim Road | | | | | |
| 040 Mesa Rim Road n Diego, CA 92121-29 | | | | | |
| 040 Mesa Rim Road | | | | | |
| | Class II Changodel MCA9129-120, S/N COO Yes: Defer until: N/A that the grant can be issued *No: .1053, and Part 22, Parage | | | | |

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1 GENERAL INFORMATION

1.1 Product Description

EUT Name: Multi-channel Power Amplifier Model: MCA9129-120 S/N:C000001EJH

1.0 EUT Documentation

1.1 EUT Description: The MCA9XXX-120 is a linear, feed-forward power amplifier that operates in the 25 MHz frequency band from 869 MHz to 894 MHz. The amplifier can simultaneously transmit multiple frequencies, with better than -65 dBc third order intermodulation distortion (IMD). It is designed for use in an amplifier system that is modular in design, and is ideally suited for use in AMPS/TDMA/CDMA base stations. Each amplifier module has a status connector that allows the host system to monitor the amplifier module performance. The front panel of each amplifier module has unit level status/fault indicators and an RF on/off/reset switch. Primary power for the amplifier is +27 Vdc. Cooling for each plug-in amplifier module is provided by three fans, two mounted on the front and one on the rear of the module. The fans draw outside air through the front of the module and exhaust hot air out through the rear of the module.

1.1.1 Components of EUT

| Description | Model Number | Serial Number | FCC ID Number |
|----------------------------------|--------------|---------------|---------------|
| Multi-channel Power Amplifier | MCA9XXX-120 | C000001EJH | E675JS0043 |

1.2 Operating modes

The MCA9XXX-120 amplifier operates in the 869-894MHz frequency range at an average output power of 120W per module stand-alone. It is capable of amplifying multiple carriers of CDMA, TDMA, or AMPS modulated input signals. The amplifier does not provide any modulation of its own.

1.3 EUT I/O Ports and Cables:

1.3.1 I/O Cables

| CONNECTION: | RF In |
|-------------------|----------------|
| SHIELD: | Yes |
| CONNECTORS: | Metal |
| TERMINATION TYPE: | D-Subminiature |
| LENGTH: | Not specified |
| REMOVABLE: | Yes |
| | |
| CONNECTION: | RF Out |
| SHIELD: | Yes |
| CONNECTORS: | Metal |
| TERMINATION TYPE: | D-Subminiature |
| LENGTH: | Not specified |
| REMOVABLE: | Yes |
| | |
| CONNECTION: | +/-27 Vdc |
| SHIELD: | No |
| CONNECTORS: | Metal |
| TERMINATION TYPE: | D-Subminiature |
| LENGTH: | Not specified |
| REMOVABLE: | Yes |
| 1.3.2 Power Cords | |

1.3.2 Power Cords

| UNIT: | N/A |
|---------------|-----|
| MANUFACTURER: | |
| SHIELDED: | |
| LENGTH: | |

1.3.3 Power requirements:

27 VDC 55 Amps

1.4 Oscillator Frequencies

| Frequency | EUT Location | Description of use |
|------------|-----------------------------|--------------------|
| 3.5795 MHz | Loop Ctrl. PCB | Freq. Ref. |
| 8 MHz | Loop Ctrl. and Alarm PCB | Freq. Ref. |
| 10.245 MHz | Loop Ctrl. PCB | Freq. Ref. |

1.5 Power Supply

| Description | Manufacturer | Model # | Serial # | Switching frequency or linear |
|---------------------|--------------|---------|----------|-------------------------------|
| N/A Not part of EUT | | | | |

1.6 Power Line Filters

| Manufacturer | Model # | Qty | LOCATION ON EUT |
|--------------|---------|-----|-----------------|
| N/A | | | |

1.7 Critical EMI Components (Capacitors, ferrites, etc.)

| Description | Manufacturer | Part # or value | Qty | LOCATION ON EUT |
|-------------|--------------|-----------------|-----|-----------------|
| N/A | | | | |

1.8 Description of Enclosure: (including Gasketing, Coatings, Bonding, etc.)

Aluminum alloy machined housing with chem-film and paint coatings.

1.9 Interfacing and/or Simulators Peripheral Equipment

| DESCRIPTION: | RF Signal Generator (Qty. 2) |
|----------------|------------------------------|
| MANUFACTURER: | Hewlett Packard |
| MODEL NUMBER: | E4433B |
| SERIAL NUMBER: | US38330312, US38440615 |
| FCC ID: | N/A |
| | T |
| DESCRIPTION: | DC Power Supply |
| MANUFACTURER: | Power Ten |
| MODEL NUMBER: | P62B-30100 |
| SERIAL NUMBER: | 1007075 |
| FCC ID: | N/A |
| | |
| DESCRIPTION: | RF Power Meter, Power Sensor |
| MANUFACTURER: | HP |
| MODEL NUMBER: | 437B, 8481A |
| SERIAL NUMBER: | 3125U21148, US37290513 |
| FCC ID: | N/A |
| | T |
| DESCRIPTION: | RF Attenuator / Load |
| MANUFACTURER: | Lucas Weinschel |
| MODEL NUMBER: | 53-30-34 |
| SERIAL NUMBER: | LN731 |
| FCC ID: | N/A |
| | |
| DESCRIPTION: | RF Attenuator |
| MANUFACTURER: | Narda |
| MODEL NUMBER: | 766-20 |
| SERIAL NUMBER: | 166 |
| FCC ID: | N/A |

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 2.1049, and 2.1051 and Part 22,

Paragraph 22.917

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

X 3. Radiated Emission per FCC Part 2, Paragraph 2.1053, & Part 22, Paragraph 22.917

4. Engineering evaluations

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

X 6. RF Output Power, 2.1046

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.

2. SYSTEM TEST CONFIGURATION

2.1 Justification

The Multi-channel Power Amplifier, Model MCA9129-120 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.

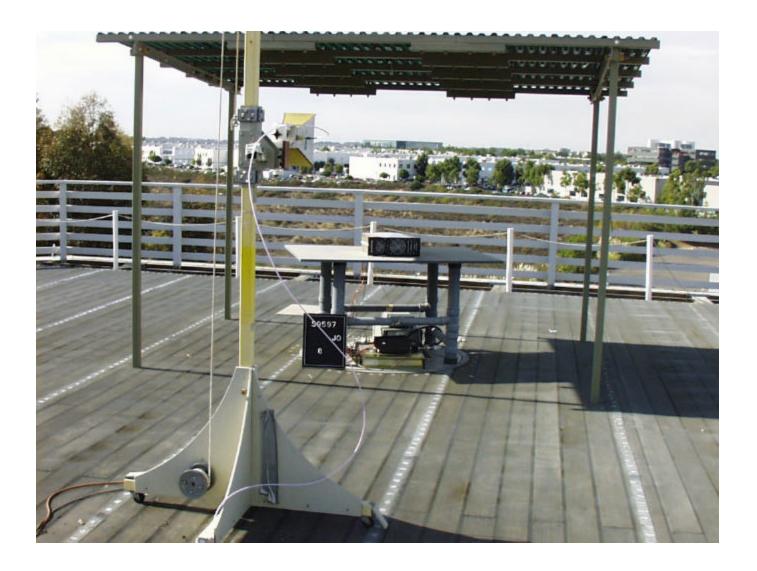
3 RADIATED EMISSION DATA

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.





REPORT No:

S9597

TESTED BY: J Owen

SPEC:

FCC Para, 2,1053

CUSTOMER: Powerwave Technologies

TEST DIST: 3

EUT:

Model MCA912/9-120 SN: C000001ЕЛН

TEST SITE: Roof

EUT MODE: Normal

BICONICAL: N/A

DATE:

7-Jan-00

LOG:

244

NOTES:

OTHER:

453

Above 1 GHz RBW & VBW = 1 MHz

Multi-Channel Power Amplifier

| | | | | | | | | | | | | | v.beta |
|--------|------|-------|--------|-------|------------|------|------|-------|----------|-------|-----|-----|-------------------|
| FREQ | VERT | TICAL | HORIZO | DNTAL | CORRECTION | MAXL | | SPEC | LIMIT | MAR | GIN | ₽ | ±₹ |
| (MHz) | (dB | uv) | (dBuv) | | FACTOR | (dBu | V/m) | (dBu\ | V/m) | (di | 3) | EUT | Antenna Height |
| (| pk | av | pk | av | (dB/m) | pk | av | pk | av | pk | av | | ≓ ⊒ |
| 869 | 60.6 | | 58.2 | | 26.8 | 87.4 | | | | 87.4 | | 357 | 1 |
| 1738 | 44.4 | | 44.8 | | 30.1 | 74.9 | | 84.4 | | -9.46 | | 350 | 1.2 |
| 2607 | 14.5 | | 17.7 | | 35.1 | 52.8 | | 84.4 | | -31.6 | | 169 | 1.2 |
| 3476 | 16.3 | | 15.1 | | 37.6 | 53.9 | | 84.4 | | -30.5 | | 108 | 1.2 |
| 4345 | 12.7 | | 13.2 | | 41.5 | 54.7 | | 84.4 | | -29.7 | | 166 | 1.2 |
| 5214 | 9.9 | | 9.8 | | 42.4 | 52.3 | | 84.4 | | -32.1 | | 91 | 1.2 |
| 6083 | 12.4 | | 13.1 | | 45.2 | 58.3 | | 84.4 | | -26.1 | | 306 | 1.2 |
| 6952 | 14.1 | | 13.2 | | 45.4 | 59.5 | | 84.4 | | -24.9 | | | |
| 7821 | 15.8 | | 13.2 | | 47.1 | 62.9 | | 84.4 | | -21.5 | | 254 | 1.2 |
| 8690 | 13.6 | | 13.2 | | 48.5 | 62.1 | | 84.4 | | -22.3 | | | |
| | | | | | | | | | | | | | |
| 881.5 | 62.3 | | 60.8 | | 27.1 | | | | | | | | |
| 1763 | 43.4 | | 39.6 | | 30.1 | 73.5 | | 84.4 | | -10.9 | | 224 | 1 |
| 2644.5 | 16.1 | | 20 | | 35.0 | 55.0 | | 84.4 | | -29.4 | | 20 | 1 |
| 3526 | 20.3 | | 15.2 | | 39.5 | 59.8 | | 84.4 | | -24.6 | | 107 | 1.2 |
| 4407.5 | 15 | | 11.8 | | 41.5 | 56.5 | | 84.4 | | -27.9 | | 227 | 1.2 |
| 5289 | 8.2 | | 10.7 | | 42.4 | 53.1 | | 84.4 | | -31.3 | | 126 | 1.2 |
| 6170.5 | 12.1 | | 12.4 | | 45.2 | 57.6 | | 84.4 | | -26.8 | | | |
| 7052 | 12.8 | | 12.4 | | 46.1 | 58.9 | | 84.4 | | -25.5 | | | |
| 7933.5 | 17.4 | | 14.3 | | 47.1 | 64.5 | | 84.4 | | -19.9 | | 165 | 1 |
| 8815 | 18 | | 12.2 | | 48.4 | 66.4 | | 84.4 | | -18 | | 263 | 1.2 |
| | | | | | | | | | | | | | |
| 894 | 61.4 | | 60.1 | | 27.1 | 88.5 | | | | 88.5 | | 190 | 1 |
| 1788 | 40.8 | | 35.7 | | 30.0 | 70.8 | | 84.4 | | -13.6 | | | |
| 2682 | 17.4 | | 24.3 | | 35.0 | 59.3 | | 84.4 | | -25.1 | | 168 | 1.5 |
| 3576 | 22.5 | | 18.2 | | 39.5 | 62.0 | | 84.4 | | -22.4 | | 229 | 1 |
| 4470 | 13.6 | | 13.9 | | 41.6 | 55.5 | | 84.4 | | -28.9 | | 167 | 1.2 |
| 5364 | 4 | | 4 | | 42.4 | 46.4 | | 84.4 | | -38 | | | 1 |
| 6258 | 7 | | 7 | | 45.2 | 52.2 | | 84.4 | | -32.2 | | | 1 |
| 7152 | 13 | | 10.5 | | 46.1 | 59.1 | | 84.4 | | -25.3 | | 310 | 1 |
| 8046 | 13.1 | | 13.1 | | 47.9 | 61.0 | | 84.4 | | -23.4 | | | |
| 8940 | 13.1 | | 13.1 | | 48.4 | 61.5 | | 84.4 | <u> </u> | -22.9 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | 1 | | | | | |
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| | | | | | | | | | | | | | |
| | | | • | | | | | • | | • | | | |

Emissions Test Conditions: RADIATED EMISSIONS, FCC Part 2, Paragraph 2.1053 and Part 22, Paragraph 22.917

| The RADIATED EMISSIONS measurements were performed at the following test location: | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
| ☐ - Test not applicable | | | | | | |

■ - Canyon #3, Roof, San Diego

Testing was performed at a test distance of:

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

Test Equipment Used:

| Model No. | Prop. No. | Description | Manufacturer | Serial No. | Cal Date |
|-----------|-----------|------------------------------|-----------------|------------|----------|
| 3115 | 453 | Antenna, Double Ridge Guide | EMCO | 9412-4363 | 10/01 |
| 3146 | 244 | Antenna, Log Periodic Dipole | EMCO | 1063 | 10/00 |
| 8566B | 720 | Spectrum Analyzer | Hewlett Packard | 211500842 | 03/00 |
| 8566B | 721 | Spectrum Analyzer Display | Hewlett Packard | 2112A02185 | 03/00 |
| Remarks: | | | | | |

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 DATA

POWERWAVE TECHNOLOGIES

Multi-channel Power Amplifier, Model MCA9129-120

See following page(s).

Emissions Test Conditions: CONDUCTED EMISSIONS, FCC Part 2, Paragraphs 2.1046, 2.1047, 2.1049, 2.1051

| Tho | PARIATED EMISSIONS massuroments were performed at the following test location: |
|-----|--|

□ - Test not applicable

■ - SR-3, Shielded Room, 12' x 20' x 8', Metal Chamber

Test Equipment Used:

Equipment List, Part 2, Paragraph 2.1049, 2.1051 and Intermodulation

Signal Generator, Model E4433B, Hewlett Packard, S/N US38330312, 03/00
Signal Generator, Model E4432B, Hewlett Packard, S/N US38080330312, 09/00
Spectrum Analyzer/Display, Model HP-8566B, Hewlett Packard, S/N 2618A02913, P/N 744, 08/00
Power Sensor, Model 8481A, Hewlett Packard, S/N US37290513, 12/00
Power Meter, Model HP437B, Hewlett Packard, S/N 3125U21148, 10/00
High Frequency Cable, Micropore, P/N 787, 10/00
Attenuator, Narda, Model 766-20, 06/01
50 W Amp Load, Model 53-30-34, Weinschel, S/N LN 731, NCR
Attenuator, Narda, Model 766-20 757C-10, 06/01
120 Amp Load, Model 53-20-34, Weinschel, S/N LK 446, NCR

| Remarks: | | | |
|----------|--|--|--|
| | | | |

REPORT NO: 9597 DATE: 06 January 2000

TEST: RF Output Power

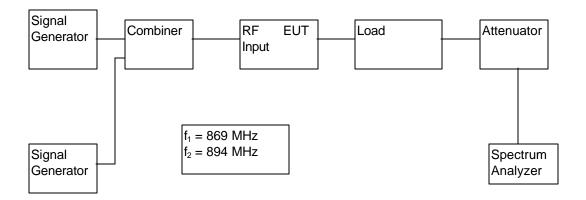
CUSTOMER: POWERWAVE TECHNOLOGIES **EUT**: MCA9129-120 Multi-Channel Power Amplifier

SPECIFICATION: FCC Part 2, Paragraph 2.1046 and RSS-131, Section 6.3

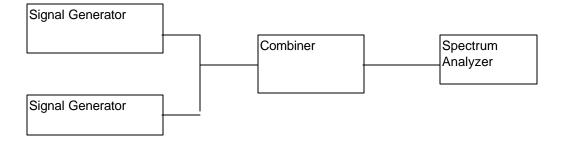
| Frequency (MHz) | Modulation | Output Power (Watts) |
|-----------------|------------|----------------------|
| $f_1 = 869$ | Amps Data | 120 |
| $f_2 = 894$ | | |
| $f_1 = 869$ | TDMA | 120 |
| $f_2 = 894$ | | |
| $f_1 = 869$ | CDMA | 120 |
| $f_2 = 894$ | | |
| $f_1 = 869$ | Amps voice | 120 |
| $f_2 = 894$ | | |

NOTE: Measured at antenna port

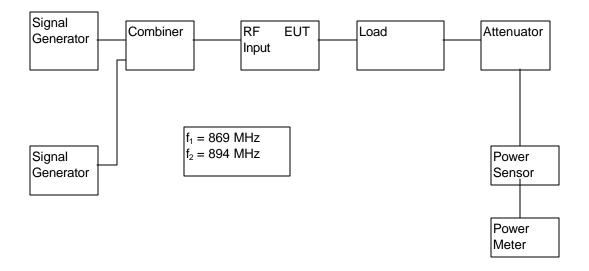
Test Setup for Occupied Bandwidth, Spurious Emissions and Intermodulation

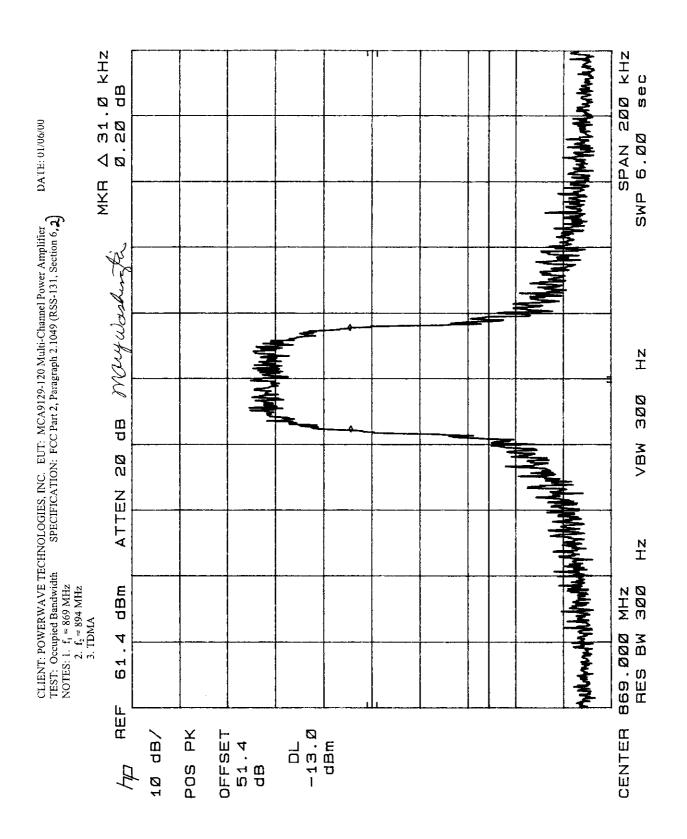


Input Plot Test Setup

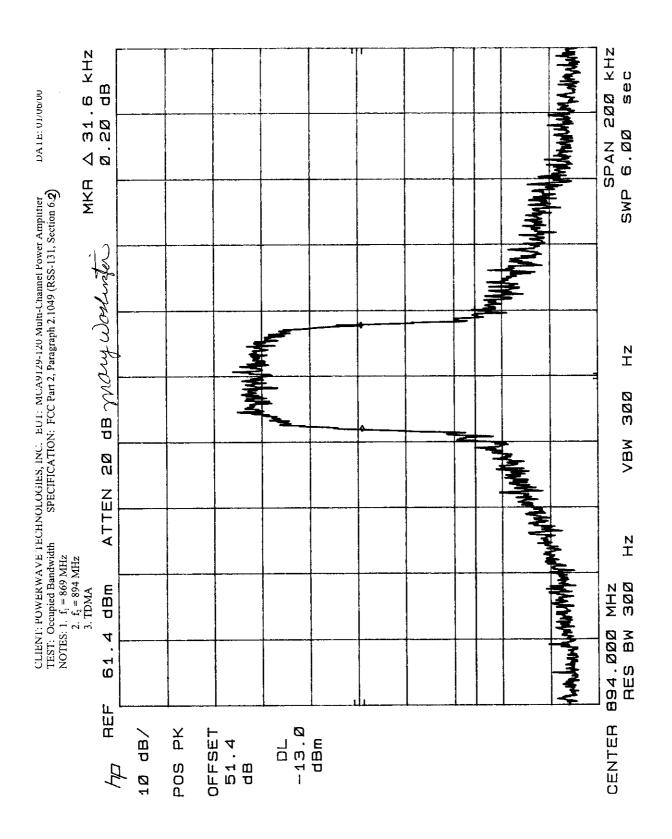


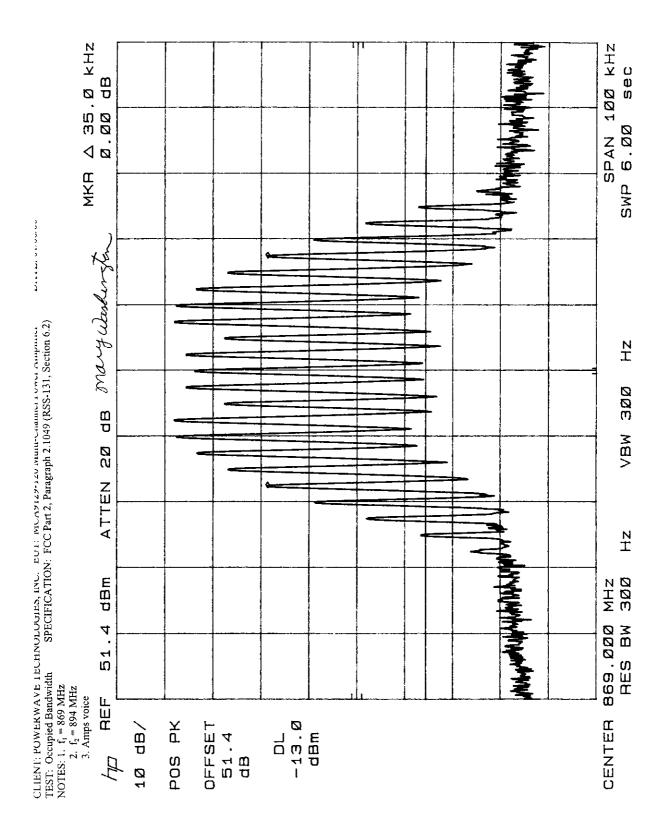
Test Setup for RF Output Power



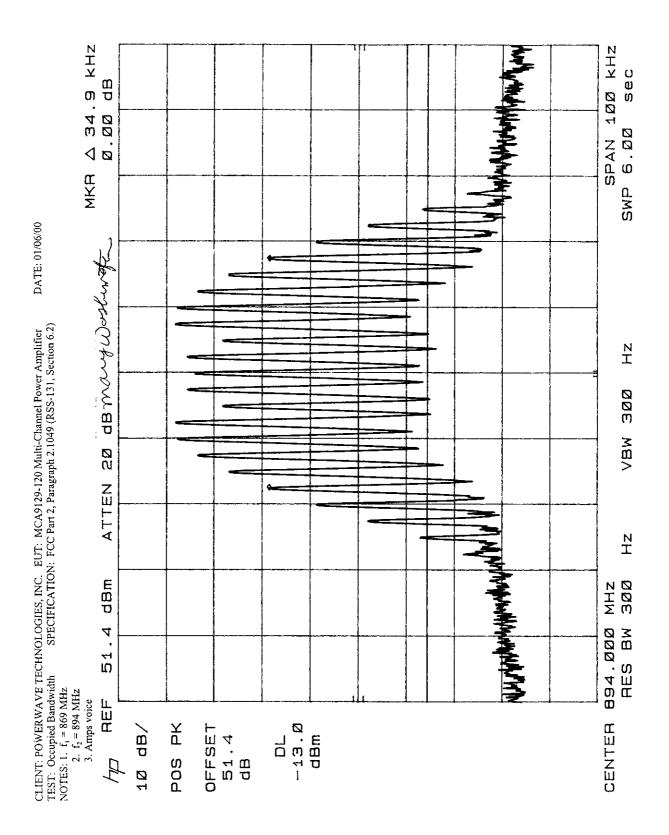


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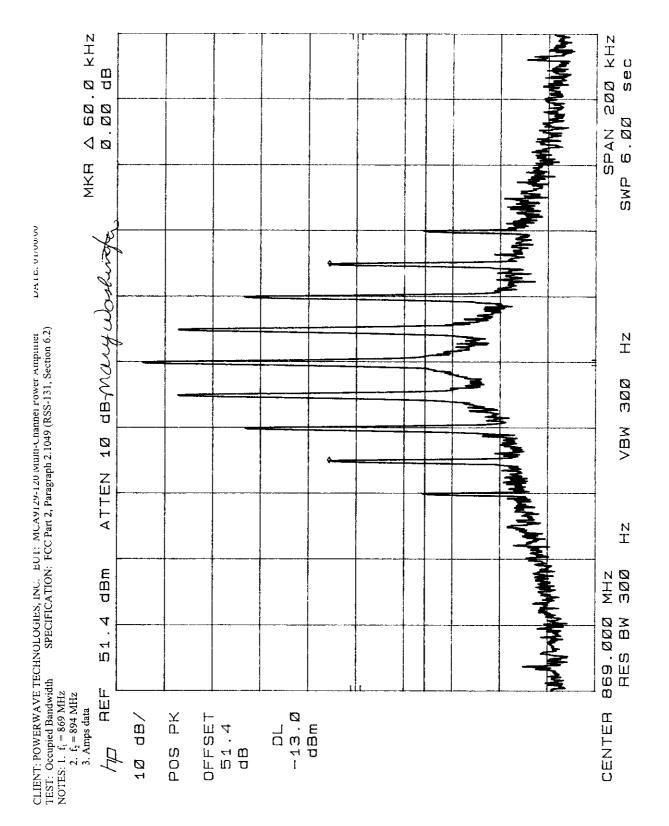




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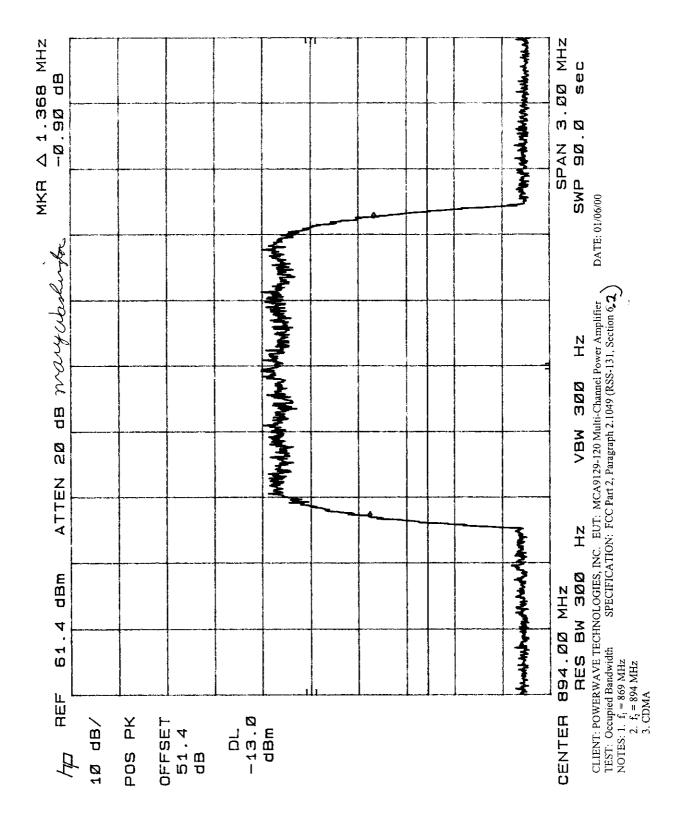
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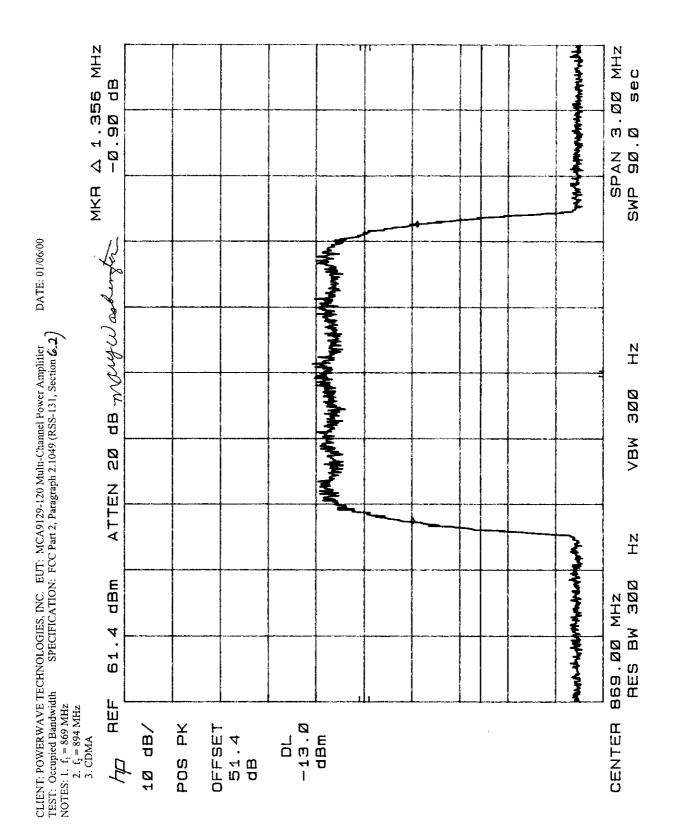


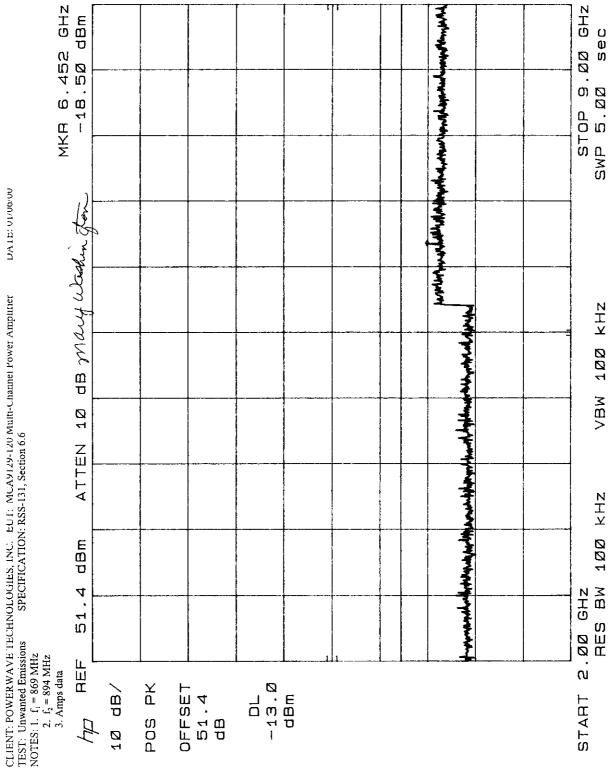
Page 25 Rev.No 1.0

60.0 KHz .00 dB 200 KHZ 3 0 0 6.00 SPAN Ø 10 ΣXΠ SWP DATE: 01/06/00 OB May Washinta Ϋ́ CLIENT: POWERWAVE TECHNOLOGIES, INC. EUT: MCA9129-120 Multi-Channel Power Amplifier TEST: Occupied Bandwidth SPECIFICATION: FCC Part 2, Paragraph 2.1049 (RSS-131, Section 6.2) NOTES: 1. f_1 = 869 MHz 2. f_2 = 894 MHz 3. Amps data 300 ×B × 1 ATTEN N a B B 300 NΗΣ 894.000 RES BW 4 5 HEF F -13.D Ц Х CENTER OFFSET dB/ 51,4 dB 0 0 0 POS 10

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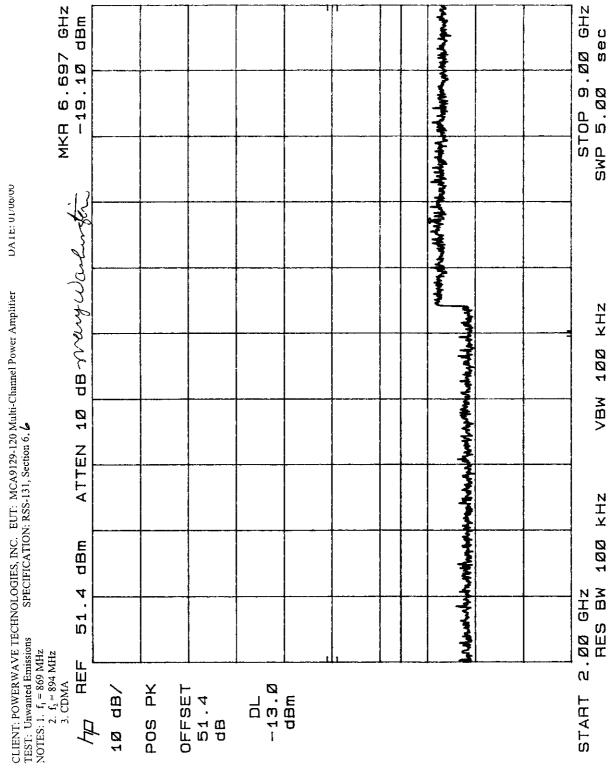


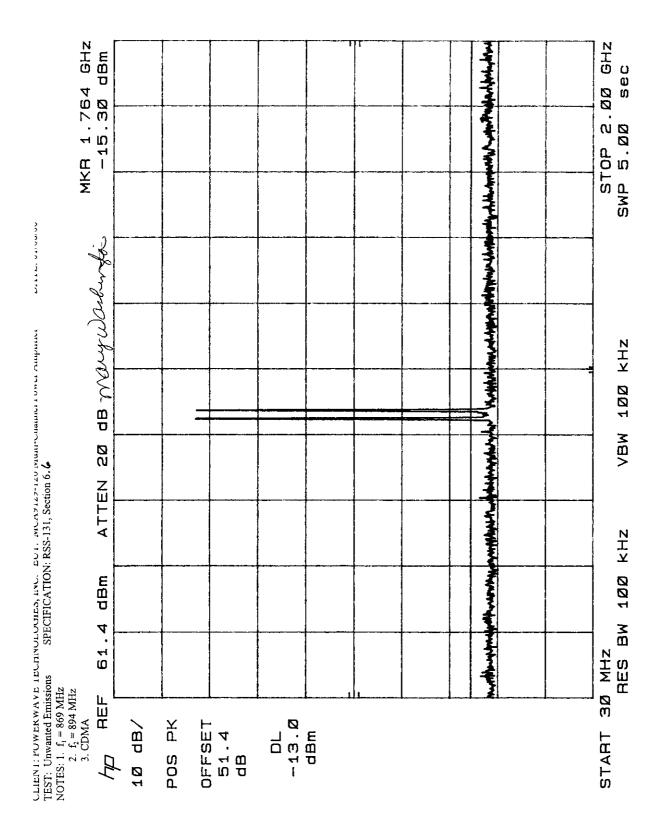




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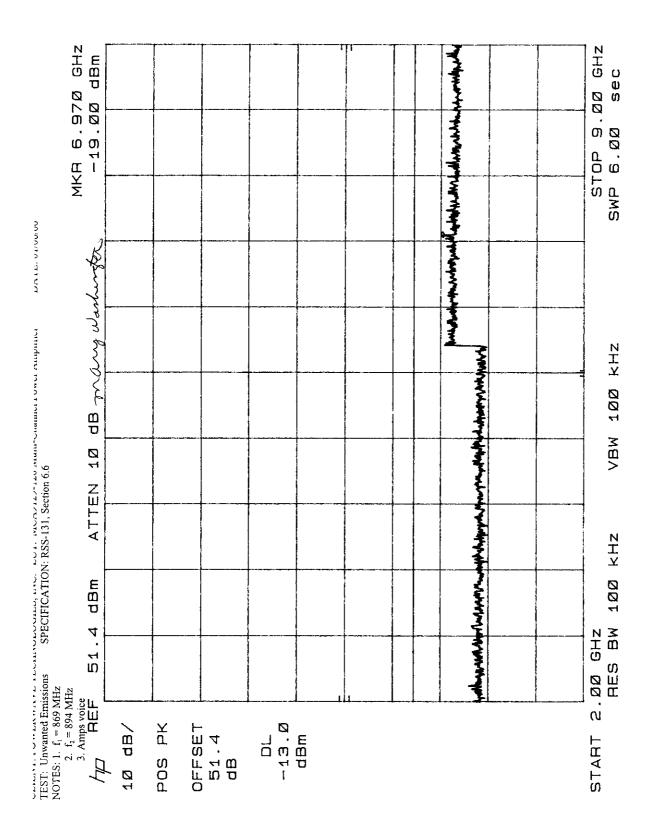
DAIE: UI/U6/00

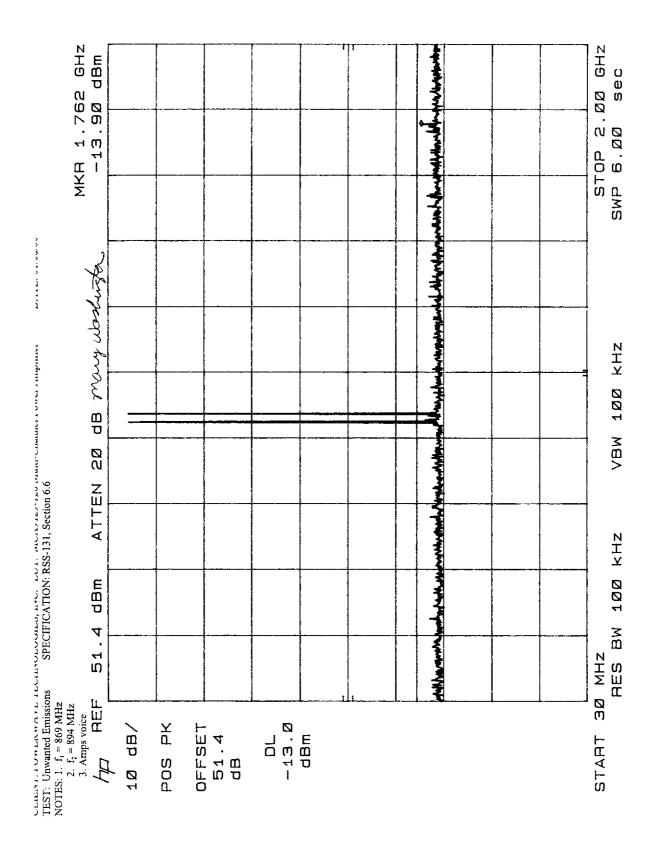




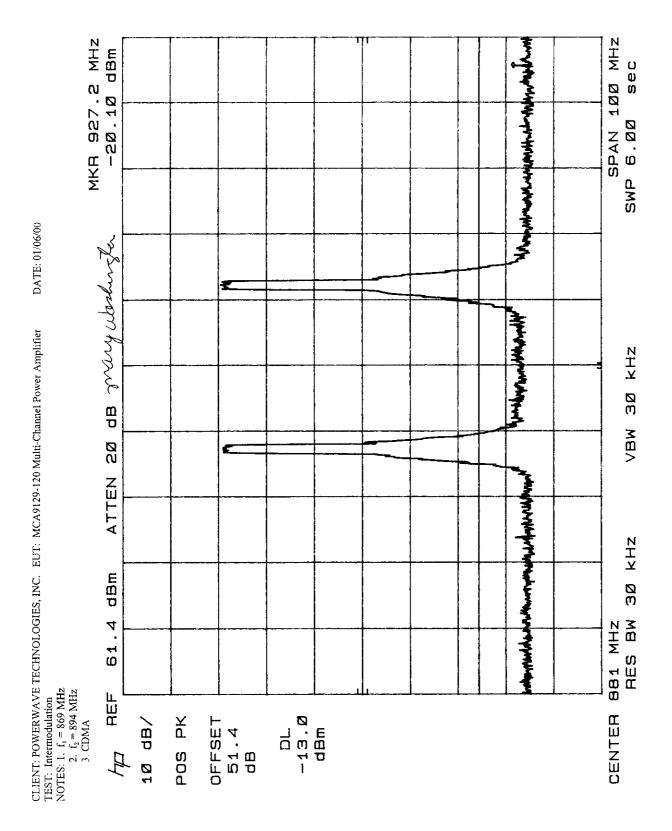
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XΗΣ 100 MHz dBm sec KR 875.0 -15.70 d 6.00 SPAN 不工工 SWP DATE: 01/06/00 OB May Washingti CLIENT: POWERWAVE TECHNOLOGIES, INC. EUT: MCA9129-120 Multi-Channel Power Amplifier TEST: Intermodulation NOTES: 1. f_1 = 869 MHz 2. f_2 = 894 MHz 3. TDMA X T Y 30 VBW g Ø ATTEN XIX д В В 90 RES BW 61.4 Ν Σ Ε 881 REF OL -13.Ø dBm CENTER POS PK OFFSET 10 dB/ 51.4 dB

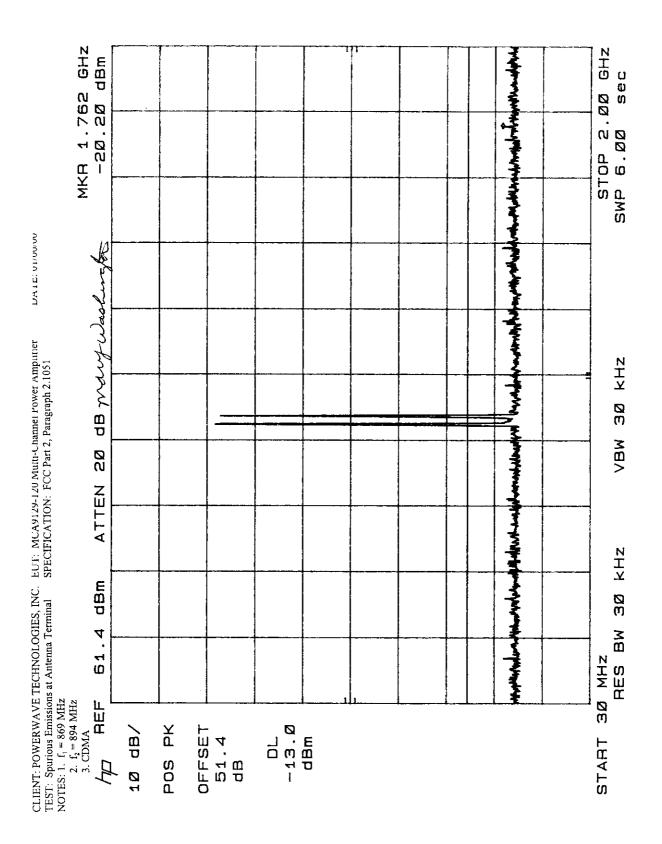
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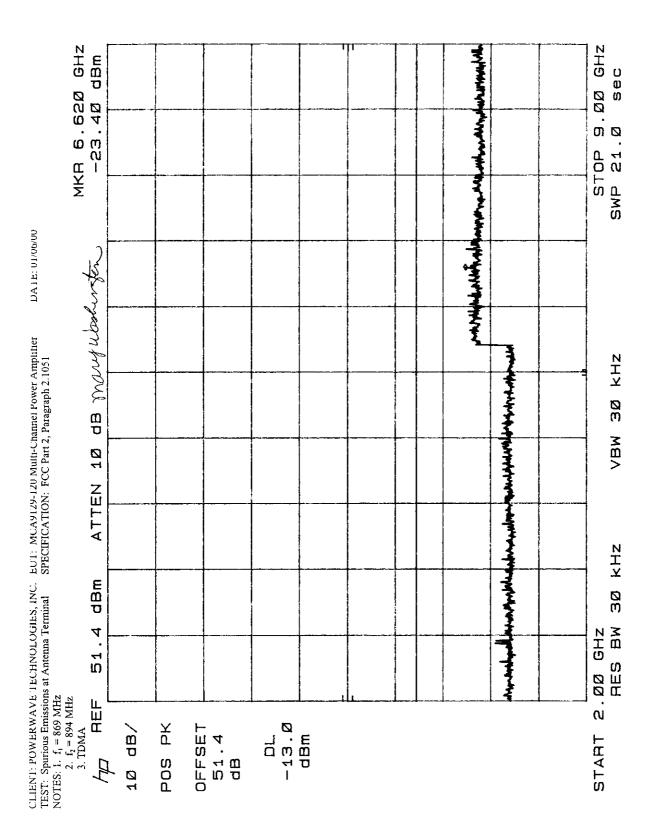
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GHZ 70P 9.00 GHZ 21.0 sec الهامات والاستراف والمواودة والمواجهة فيادا والمواجهة والمواجمة والمواجهة والمواجهة والمواجعة والمواجمة والمواجمة والمواجمة والمواجمة والمواجمة والمواجمة وا 0 0 E MKR 8.888 -24.00 d STOP SWP DATE: 01/06/00 dB Wart Washington EUT: MCA9129-120 Multi-Channel Power Amplifier SPECIFICATION: FCC Part 2, Paragraph 2.1051 であっていますでは、これは、これは、これでは、これでは、これではないできない。 しゅうじゅんかっぱつ かないしゃ Z T Z (A) ×B N 10 ATTEN N T Y CLIENT: POWERWAVE TECHNOLOGIES, INC. TEST: Spurious Emissions at Antenna Terminal NOTES: 1. f₁ = 869 MHz
2. f₂ = 894 MHz
3. CDMA d B B **8**0 4 <u>×</u> 00 GHZ 5 RES 2. BB REF -13.Ø dBm POS PX OFFSET 10 dB/ 占 51.4 STAHT a B

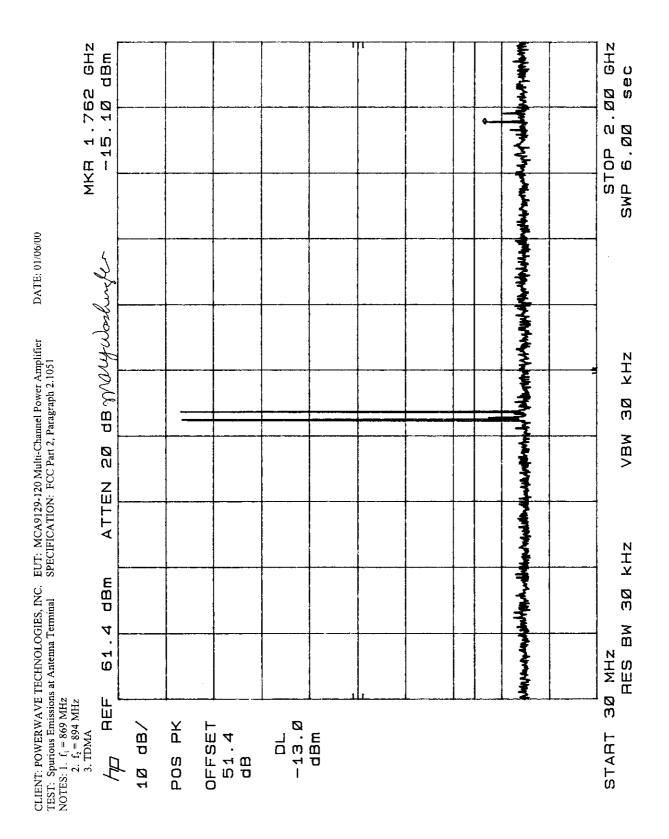
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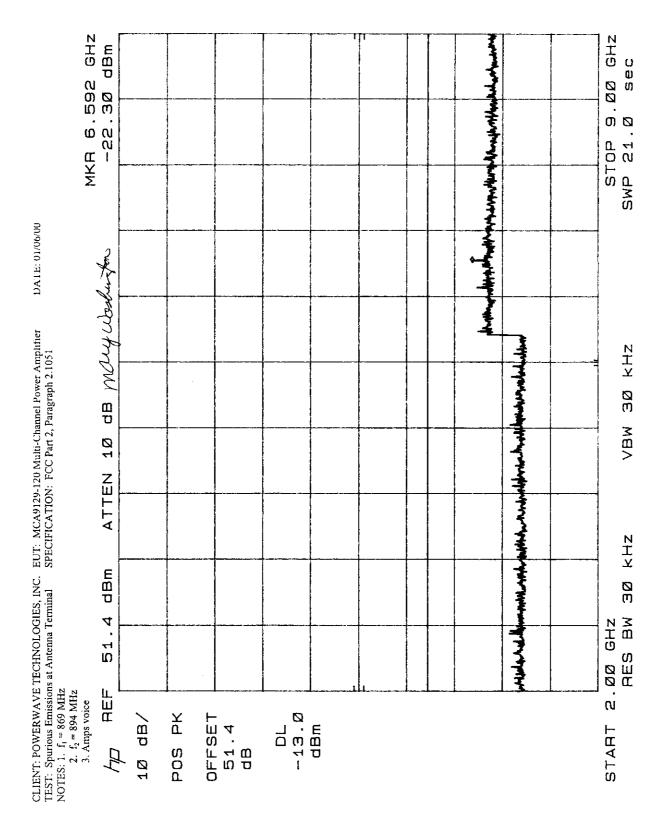
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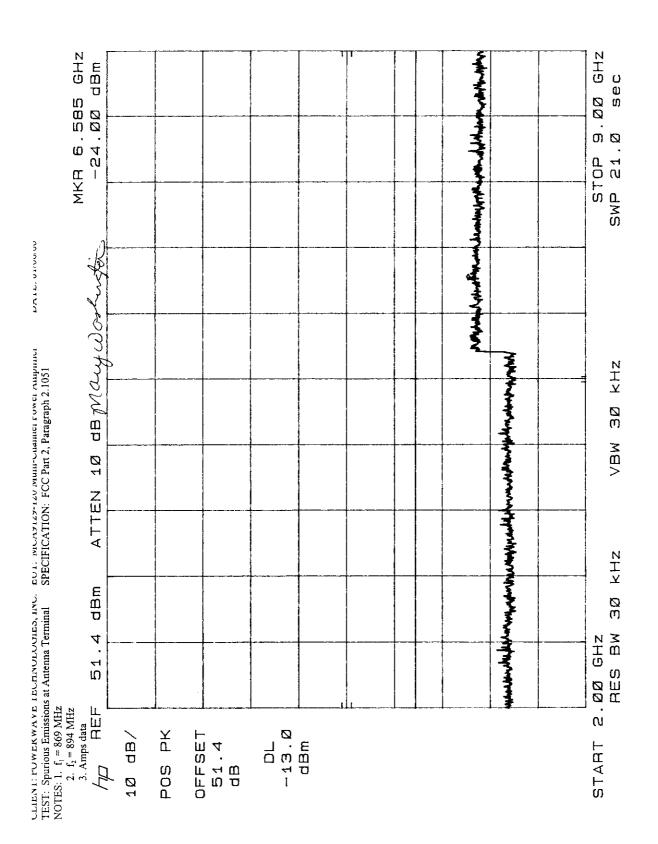
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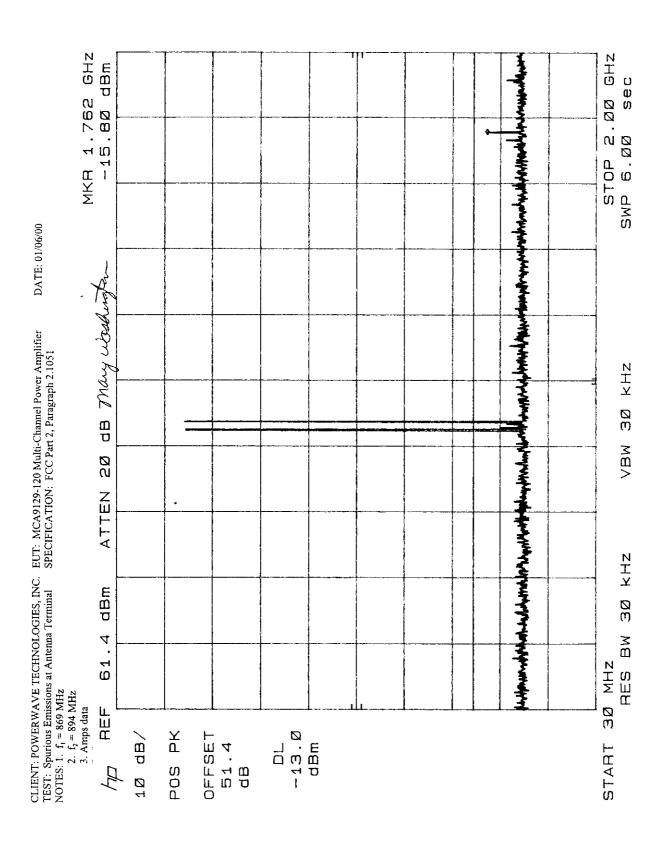
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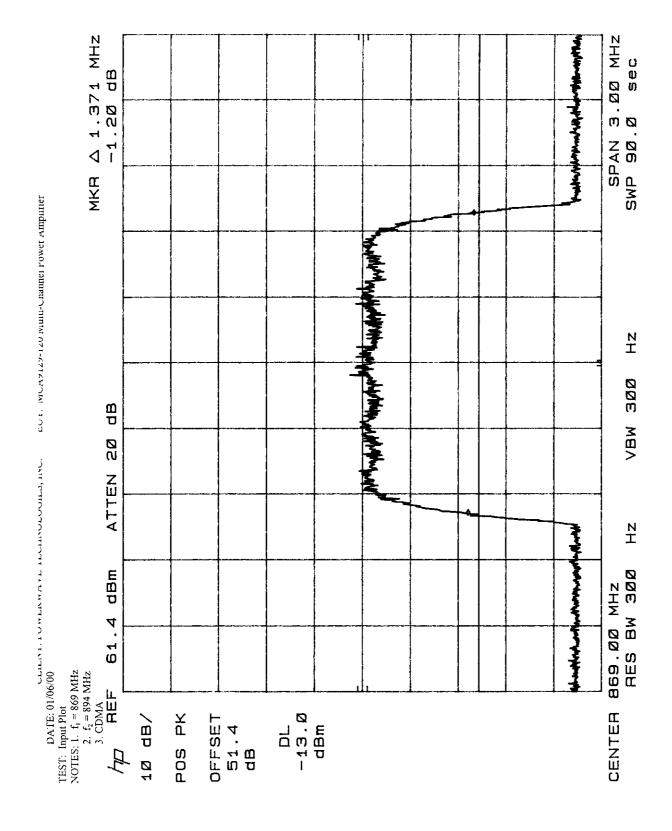
GHZ GHZ d B B Sec 1.762 -15.40 4 STOP Σ Ω O MS المعيد والمواجه والفاعل والمواجد والمساوية المائية المواجة المعاودة والمفاحة والمفاحة والمفاحة والمفاحة والمدارة DATE: 01/06/00 maywalusta EUT: MCA9129-120 Multi-Channel Power Amplifier SPECIFICATION: FCC Part 2, Paragraph 2.1051 X T Y 30 9 × B N g Ø ATTEN X T Y CLIENT: POWERWAVE TECHNOLOGIES, INC. TEST: Spurious Emissions at Antenna Terminal NOTES: 1. $f_1 = 869 \, \text{MHz}$ 2. $f_2 = 894 \, \text{MHz}$ <u>Б</u>В<u>Э</u> 90 4 HES BW 61 3Ø MHz AEF 3. Amps voice -13.Ø dBm ᆽ OFFSET 10 dB/ 51.4 dB 딥 START POS

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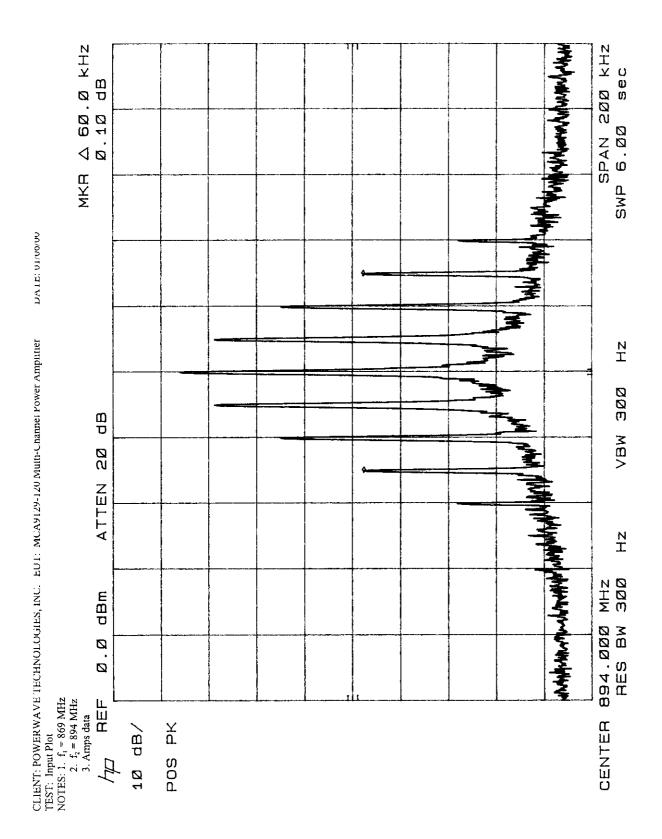




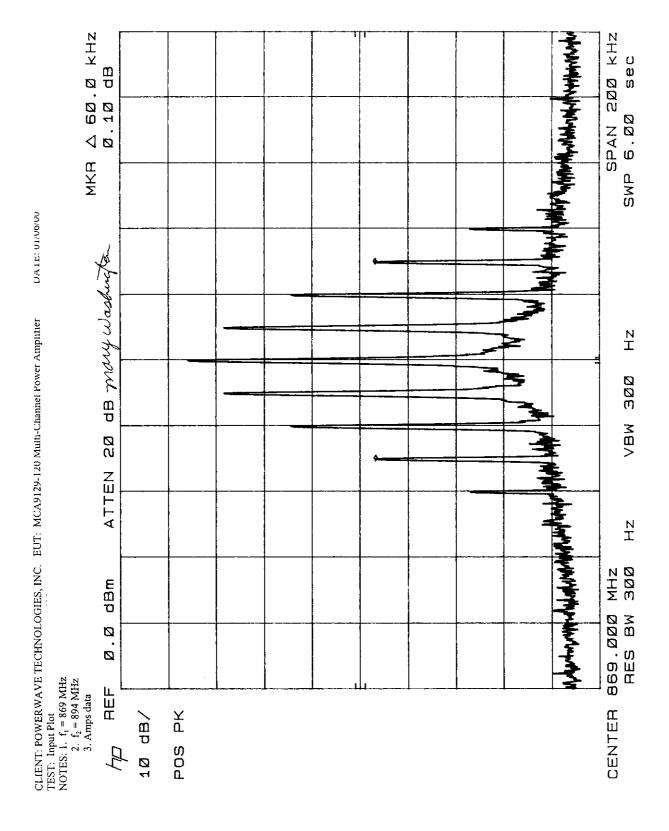
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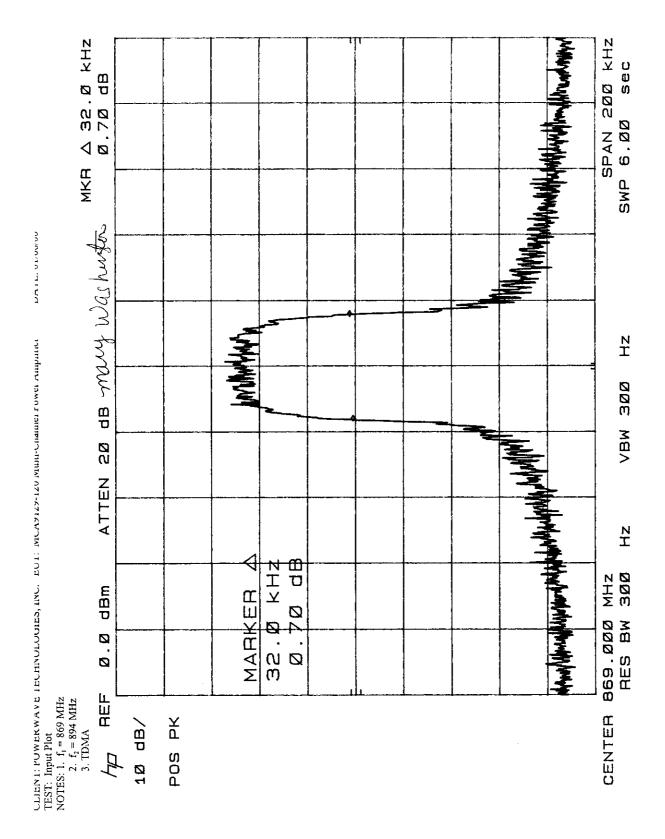


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5 SIGNATURE PAGE

GENERAL REMARKS:

SUMMARY:

All tests according to the standards sited on page 1 of this report.

- - Performed
- ☐ Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements cited on page 1.
- □ **Does not** fulfill the general approval requirements cited on page 1.
- TÜV PRODUCT SERVICE, INC. -

Mary whohiveten

Responsible Engineer:

Mary Washington (EMC Engineer)