STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

THREE EMPIRE STATE PLAZA, ALBANY, NY 12223-1350

Internet Address: http://www.dps.state.ny.us

petition

October 1, 2002

Mr. Barney Shorter
President
Access Point, Inc.
1100 Crescent Green, Suite 109
Cary, NC 27511

Re: Case No. 02-C-0974

Dear Mr. Shorter:

This is to advise that tariff No. 3 under the name Access Point, Inc. which contains rates and regulations for the provision of telecommunications access services within New York State, has been approved as of the date of this letter. The Secretary to the Commission will cause a copy of this letter to be filed with your company's "Original Tariff Schedule" as notice to the public that the filing was allowed to go into effect on the date of this certification letter as opposed to the date indicated on the tariff leaves themselves.

By direction and delegation
of the Commission,

Allan B. Bausback

Allan Bausback
Director
Office of Communications

cc: Shari Dawson
Technologies Management Inc.
210 North Park Avenue
Winter Park, Florida 32789

TIME WARNER
CABLE

02-K-0675

May 22, 2003

VIA CERTIFIED MAIL/
RETURN RECEIPT REQUESTED

Secretary Janet Diexler
N.Y.S. Department of Public Service
Three Empire State Plaza - 19th Floor
Albany, New York 12223

Dear Ms. Diexler:

Enclosed are an original and four (4) copies of the Village of Chittenango (Madison County) franchise application, which is served by the Time Warner Cable Syracuse Division.

If you have any questions, please do not hesitate to contact me at (315) 634-6107.

Sincerely,

Richard T. Strong
Manager of Government Affairs
enclosures

cc: Henry Pearl, Vice President/General Manager Manager-Time Warner Cable Syracuse

6005 Fair Lakes Road East Syracuse, NY 13057 · P.O. Box 4733 Syracuse, NY 13221 Tel 315.634.6200 Fax 315.463.6584

CABLE TELEVISION
FRANCHISE RENEWAL AGREEMENT

VILLAGE OF CHITTENANGO

THIS AGREEMENT, executed in triplicate this 22nd day of April, 2003, by and between the VILLAGE OF CHITTENANGO, (hereinafter referred to as the Municipality) by the Supervisor acting in accordance with the authority of the duly empowered local governing body, (hereinafter referred to as the Board) and TIME WARNER ENTERTAINMENT-ADVANCE/NEWHOUSE PARTNERSHIP, a New York General Partnership, organized and existing under the laws of the State of New York, the local place of business of which is located at 6005 Fair Lakes Road, P.O. Box 4733, East Syracuse, NY 13221, hereinafter referred to as "Time Warner Cable."

WITNESSETH

WHEREAS, Pursuant to the Village Law the Board has the exclusive power on behalf of the Municipality to grant franchises providing for or involving the use of the Streets (as defined in Section 1 hereof) and to give the consent of the Municipality to any franchisee for or relating to the occupation of the Streets; and

WHEREAS, Pursuant to the Communications Act of 1934, as amended, (the "Communications Act") the Board has the authority to grant cable television franchises and renewals thereof on behalf of the Municipality and whereas the Board and Time Warner Cable pursuant to said Federal Law and pursuant to applicable State laws and the regulations promulgated thereunder, have complied with the franchise procedures required of Municipalities and cable operators in the grant of cable television franchises or their renewal; and

WHEREAS, The Municipality has conducted negotiations with Time Warner Cable and has conducted one or more public hearings on Time Warner Cable's franchise renewal proposal affording all interested parties due process including notice and the opportunity to be heard; said deliberations included consideration and approval of Time Warner Cable's technical ability and financial condition and character; said public hearing also included consideration and approval of Time Warner Cable's plans for constructing and operating the cable television system; and

WHEREAS, Following such public hearings and such further opportunity for review, negotiations and other actions as the Board deemed necessary and that is required by law, the Board decided to renew Time Warner Cable's franchise as provided hereinafter; and

WHEREAS, The Board, in granting this franchise renewal, embodied in the agreement the results of its review and any negotiations with Time Warner Cable and has determined that said franchise agreement and Time Warner Cable respectively, fulfills and will fulfill the needs of the Municipality with respect to cable television service and complies with the standards and requirements of the New York State Public Service Commission ("NYSPSC");

NOW, THEREFORE, In consideration of the foregoing clauses, which clauses are hereby made a part of this franchise agreement, and the mutual covenants and agreements herein contained, the parties hereby covenant and agree:

SECTION 1 - DEFINED TERMS

Unless the context clearly indicates that a different meaning is intended:

(a) "Basic Service" means any service tier which includes the retransmission of local broadcast signals.

(b) "Board" means the Board of Trustees of the Municipality.

(c) "Cable Television Service" means

(1) The one way transmission to Subscribers of Video Programming, or other programming service, and

(2) Subscriber interaction, if any, which is required for the selection or use of such Video Programming, or other programming service.

(d) "Cable Television System" means a facility, consisting of a set of closed transmission paths, including (without limitation) fiber optic wires or lines, and associated signal generation, reception and control equipment that provides Cable Television Service to multiple subscribers within a community.

(e) "Time Warner Cable" means Time Warner Cable Entertainment-Advance/Newhouse Partnership.

(f) "Effective Date" of this agreement shall be that date subsequent to confirmation of the Franchise, by the New York State Public Service Commission ("NYSPSC") agreed to by the parties, which date is (calendar date).

(g) "Franchise" means the grant or authority given hereunder to Time Warner Cable to construct and operate a Cable Television System in the Municipality in accordance with the terms hereof.

(h) "FCC" means the Federal Communications Commission, its designees and any successor thereto.

((i) "Gross Revenues" means all revenues including installation and Pay-Per-View, net of franchise fees, actually received by and paid to Time Warner Cable by subscribers residing within the Municipality for Cable Television Service purchased by subscribers on a regular, recurring monthly basis. It shall include revenues received from high speed internet services if said services are classified as a Cable Service under applicable federal law (including but not limited to a determination by the Federal Communications Commission the high speed internet services

are not a Cable Service under the Cable Act.

(j) "May" is permissive.

(k) "Municipality " means the Village of Chittenango. Wherever the context shall permit, Board, Council and Municipality shall be used interchangeably and shall have the same meaning under this Franchise.

(l) "NYSPSC" means New York State Public Service Commission.

(m) "Person" means an individual, partnership, association, corporation, joint stock company trust, corporation, or organization of any kind.

(n) "Ordinance" means ordinance, resolution or local law.

(o) "Service Tier" means a category of Cable Television Service provided by Time Warner Cable over the Cable Television System for which a separate rate is charged for such category by Time Warner Cable.

(p) "Shall" or "will" are mandatory.

(q) "Streets" means the surface of, as well as the space above and below, any and all streets, avenues, highways, boulevards, concourses, driveways, bridges, tunnels, parks, parkways, waterways, docks and public grounds and waters within or belonging to the Municipality.

(r) "Subscriber" means any person lawfully receiving any Cable Television Service in the Municipality provided over the Cable Television System.

(s) "Video Programming" means any and all programming services provided by, or generally considered comparable to programming provided by a television broadcast station.

SECTION 2 - CONSENT TO FRANCHISE AND CONDITION PRECEDENT

(a) The Municipality hereby grants to Time Warner Cable the non-exclusive right to construct, erect, operate and maintain a Cable Television System and to provide Cable Television Service within the Municipality as it now exists and may hereafter be changed, and in so doing to use the Streets of the Municipality by erecting, installing, constructing, repairing, replacing, reconstructing, maintaining and retaining in, on, over, under, upon and across any and all said Streets such facilities (e.g., poles, wires, cables, conductors, ducts, conduits, vaults, pedestals, manholes, amplifiers, appliances, attachments and other property) as is deemed necessary or useful by Time Warner Cable, for the operation of its cable system. Additionally, the Municipality, insofar as it may have the authority to so grant, hereby authorizes Time Warner Cable to use any and all easements dedicated to compatible uses, such as electric, gas, telephone or other utility transmissions, for the purposes of erecting, installing, constructing, repairing, replacing, reconstructing, maintaining and retaining in, on, over, under, upon and across such easements

such facilities of the Cable Television System as is deemed necessary or useful by Time Warner Cable, for the operation of its cable system. Upon request by Time Warner Cable and at Time Warner Cable's sole expense, the Municipality hereby agrees to assist Time Warner Cable in gaining access to and using such easements.

(b) Nothing in this Franchise shall limit the right of Time Warner Cable to transmit any kind of signal, frequency, or provide any type of service now in existence or which may come into existence and which is capable of being lawfully transmitted and distributed by those facilities owned and operated by Time Warner Cable. The provision by Time Warner Cable of any service other than cable service shall be subject to all applicable laws and regulations and to any right the Municipality may have to require fair and reasonable compensation for Time Warner Cable's use of the rights-of-way to provide such service, provided that such requirement is non-discriminatory and competitively neutral.

(c) Without waiver or restriction of the rights available to the parties hereto under applicable law, this Franchise and the attachments hereto constitute the entire agreement between the parties and supersede any and all prior cable television agreements and other agreements or instruments by or between the parties hereto or their predecessors in interest as well as all rights, obligations and liabilities arising thereunder concerning or in any way relating to Cable Television Service.

(d) In the event the Municipality grants to any other Person (being referred to as "Grantee" in the below quoted paragraph) a franchise, consent or other right to occupy or use the Streets, excepting existing utilities or any part thereof, for the construction, operation or maintenance of all or part of a cable television system or any similar system or technology, the Municipality shall insert the following language into any such franchise, consent or other document and/or promptly pass a resolution, conditioning the use of the Streets or any part thereof by any such Person, as follows:

> "Grantee agrees that it will not move, damage, penetrate, replace or interrupt any portion of the Cable Television System of Time Warner Cable without the prior written consent of Time Warner Cable. Grantee shall indemnify Time Warner Cable against any damages or expenses incurred by Time Warner Cable as a result of any removal, damage, penetration, replacement or interruption of the services of Time Warner Cable caused by the Grantee." As used immediately above in the above quoted paragraph, the term "Time Warner Cable" shall mean Time Warner Cable Entertainment-Advance/Newhouse Partnership, as defined in this Franchise, and its successors, assigns and transferees." The Municipality shall suffer no loss or penalty for failing to do the foregoing.

(e) This Franchise is non-exclusive. Any grant of a subsequent franchise shall be on terms and conditions which are not more favorable or less burdensome than those imposed on the Franchisee hereunder.

As used in this Section, the phrase, "occupancy or use of Streets," or any similar phrase, shall not be limited to the physical occupancy or use thereof but shall include any use above or below the Streets by any technology including but not limited to infrared transmissions.

SECTION 3 - APPROVAL OF COMPANY BY MUNICIPALITY

(a) This Franchise is subject to and complies with all applicable Federal and State laws and regulations, including, without limitation, the rules of the NYSPSC concerning franchise standards. The Municipality hereby acknowledges and agrees that this Franchise has been entered into by it in accordance with and pursuant to the Communications Act of 1934, as amended, 47 U.S.C. Sec. 521 et seq. (hereinafter referred to as the "Communications Act"). The Municipality hereby represents and warrants that this Franchise has been duly entered into in accordance with all applicable local laws known by the Municipality to be applicable. The Municipality hereby acknowledges that it, by duly authorized members thereof, has met with Time Warner Cable for the purposes of evaluating Time Warner Cable and negotiating and consummating this Franchise.

(b) In a full and public proceeding, affording due process, the Municipality has considered and approved Time Warner Cable's technical ability within the limitation of time and technical constraints and character and has considered and found adequate Time Warner Cable's plans for constructing and operating the cable system.

SECTION 4 - FRANCHISE TERM

The term of this Franchise shall be ten (10) years, commencing on the later of the 1st of December, 2002 or on the date the NYSPSC approves said franchise agreement and terminating on the _____ of _____, 2012.

SECTION 5 - ASSIGNMENT OR TRANSFER OF FRANCHISE

(a) Time Warner Cable shall not transfer this Franchise to any person, firm, company, corporation or any other entity without the prior written consent of the Municipality, which consent shall not be unreasonably withheld or denied.

(b) In the event that the Municipality refuses to grant such consent, it shall set forth specific reasons for its decision in writing by municipal resolution.

(c) Notwithstanding the above, this Section 5 shall not be applicable and no prior approval shall be required if Time Warner Cable shall transfer this Franchise to any of its principal partners, to any parent, subsidiary or affiliate of any of the principal partners of Time Warner Cable, or to any other firms or entities controlling, controlled, by or under the same common control as Time Warner Cable.

SECTION 6 - REVOCATION

(a) The Municipality may revoke this Franchise and all rights afforded Time Warner Cable hereunder in any of the following events or for any of the following reasons:

(I) Time Warner Cable fails after thirty (30) days written notice from the Municipality to substantially comply or to take reasonable steps to comply with a material provision of this Franchise. Notwithstanding the above, should Time Warner Cable comply or take said reasonable steps to comply within said thirty (30) days notice, the Municipality's right to revoke this Franchise shall immediately be extinguished; or

(ii) Time Warner Cable is adjudged a bankrupt; or

(iii) Time Warner Cable knowingly and willfully attempts or does practice a material fraud or deceit in its securing of this Franchise.

(b) Notwithstanding the above, no revocation shall be effective unless and until the Municipality shall have adopted resolution setting forth the cause and reason for the revocation and the effective date thereof, which resolution shall not be adopted until the expiration of-sixty (60) days from the date of delivery of written notice to Time Warner Cable specifying the reasons for revocation and an opportunity for Time Warner Cable to be fully and fairly heard on the proposed adoption of such proposed resolution. If the revocation as proposed therein depends on a finding of fact, such finding of fact shall be made by the Municipality only after an administrative hearing providing Time Warner Cable with a full and fair opportunity to be heard, including, without limitation, the right to introduce evidence, the right to the production of evidence and the right to question witnesses. A transcript shall be made of such hearing at the sole cost of the requesting party. Time Warner Cable shall have the right to appeal any such administrative decision in accordance with CPLR Article 78 to a state or federal district court as Time Warner Cable may choose and the revocation shall not become effective until any such appeal has become final or the time for taking such appeal shall have expired.

SECTION 7 - INDEMNIFICATION & INSURANCE

(a) Time Warner Cable shall indemnify and hold harmless the Municipality from all liability, damage and cost or expense, including attorneys' fees arising from claims of injury to persons or damage to property occasioned by reason of any conduct of Time Warner Cable its employees or agents undertaken pursuant to this Franchise. The Municipality shall promptly notify Time Warner Cable of any claim for which it seeks indemnification; afford Time Warner Cable the opportunity to fully control the defense of such claim and any compromise, settlement, resolution or other disposition of such claim, including by making available to Time Warner Cable all relevant information under its control.

(b) Time Warner Cable shall as of the Effective Date of this Franchise obtain liability insurance in the minimum amount set forth within and shall furnish to the Municipality evidence of such liability insurance policy or policies, in the form of a certificate of insurance naming the Municipality as an additional named insured, which policy or policies or replacements thereof shall remain in effect throughout the term of this Franchise; said policy and replacements shall be

in the combined amount of Five Million Dollars ($5,000,000) for bodily injury and property damage issued by a company authorized to do business in New York State. In addition, Time Warner Cable shall carry Worker's Compensation insurance for its employees in such amounts as is required by the laws of the State of New York. The insurance coverage herein referred to above may be included in one or more policies covering other risks of Time Warner Cable or any of its affiliates, subsidiaries or assigns.

SECTION 8 - USE OF EXISTING POLES AND LOCATION OF UNDERGROUND FACILITIES

(a) Time Warner Cable hereby agrees that when and wherever it deems it economical and reasonably feasible, it shall enter into agreements with telephone or electric or other utilities (collectively "utilities") for the use of said utilities' poles or conduit space whereby said utilities shall provide use of and access to said poles or conduit space by Time Warner Cable for Time Warner Cable's lines and other equipment. Notwithstanding the above, where necessary to service Subscribers and where attachment to the pole(s) or conduit space of utilities is not economically reasonable or otherwise feasible, Time Warner Cable may erect or authorize or permit others to erect any poles or conduit space or any other facilities within the Streets of the Municipality pursuant to the issuance by the Municipality of any necessary authorizations which shall not be unreasonably withheld or delayed.

(b) Subject to the provisions of sub-paragraph (c) below, in such areas of the Municipality where it or any sub-division thereof shall hereafter require that all utility lines be installed underground, Time Warner Cable shall install its lines underground in accordance with such requirement.

(c) Notwithstanding the foregoing, if Time Warner Cable shall in any instance be unable to install or locate its wires underground, then the Municipality, on being apprized of the facts thereof, shall permit such wires to be installed above the ground even though other facilities in the area may be placed, or required to be placed, underground. However, any such permission shall be on such conditions as the Municipality may reasonably require.

SECTION 9 - RELOCATION OF PROPERTY

(a) Whenever the Municipality shall require the relocation or reinstallation of any property of Time Warner Cable in or on any of the Streets of the Municipality as a result of the relocation or other improvements by the Municipality of any such Streets, it shall be the obligation of Time Warner Cable on written notice of such requirement to remove and relocate or reinstall such property as may be reasonably necessary to meet the requirements of the Municipality. In the event any other person, including a public utility, is compensated for similar relocation or reinstallation then in such case Time Warner Cable shall be similarly compensated.

(b) Time Warner Cable shall, on request of a person holding a building or moving permit issued by the Municipality, temporarily raise or lower its wires or other property or relocate the same temporarily so as to permit the moving or erection of buildings. The expenses of any such temporary removal, raising or lowering of wires or other property shall be paid in advance to

Time Warner Cable by the person requesting the same. Time Warner Cable shall be given in such cases not less than five (5) working days prior written notice in order to arrange for the changes required.

SECTION 10 - USE & INSTALLATION

(a) Time Warner Cable or any person authorized by Time Warner Cable to erect, construct or maintain any of the property of Time Warner Cable used in the transmission or reception of Cable Television Service shall at all times employ due care under the facts and circumstances and shall maintain and install said property of Time Warner Cable in accordance with commonly accepted methods and principles in the cable television industry so as to prevent failures and accidents likely to cause damage or injury to members of the public. All Cable Television System equipment shall conform to those standards of the National Electrical Code and the National Board of Fire Underwriters which exist at the time said equipment is installed and replaced.

(b) Time Warner Cable agrees to install all Cable Television System equipment in a manner to reasonably minimize interference to be expected with the usual use of the Streets and in no event shall any such Cable Television System equipment be located so as to materially and/or regularly interfere with the usual public travel on any Street of the Municipality. Time Warner Cable shall construct and maintain its cable system using materials of good and durable quality and shall perform all work involved in the construction, installation, maintenance and repair of the cable system in a safe, thorough and reliable manner. Time Warner Cable shall promptly repair or replace any municipal property damaged or destroyed by Time Warner Cable so as to restore it to serviceable condition comparable to that previously existing.

(c)Whenever Time Warner Cable or any person on its behalf shall cause any injury or damage to public property or Street, by or because of the installation, maintenance or operation of the Cable Television System equipment, such injury or damage shall be remedied as soon as reasonably possible after the earlier of notice to Time Warner Cable from the Municipality or after Time Warner Cable becomes aware of the same, in such fashion so as to restore the property or Street to prior condition. Time Warner Cable is hereby granted the authority to trim trees upon and overhanging the Streets of, and abutting private property, (i.e., in the public way) in the Municipality to the extent it reasonably deems necessary so as to prevent the branches or growths from coming in contact with the wires, cable and other equipment of Franchisee's Cable Television System.

SECTION 11 - CONTINUOUS SERVICE

Time Warner Cable shall continue to provide cable service to all subscribers who meet their obligations to Time Warner Cable with respect to such service. Time Warner Cable shall not, without the written consent of the Municipality abandon its cable television system or any portion thereof, except to the extent portions of the system may be routinely abandoned in the ordinary course of business without the written consent of the Municipality.

SECTION 12 - FRANCHISE AREA AND LINE EXTENSION

Time Warner Cable shall comply with the requirements for construction of cable television plant and provision of cable television services as set forth in Section 595.5 of the Rules of the NYSPSC.

SECTION 13 - OPERATION AND MAINTENANCE

(a) Time Warner Cable shall contract and maintain its cable system using materials of good and durable quality and shall perform all work involved in the construction, installation, maintenance and repair of the cable system in a safe, thorough and reliable manner.

(b) Time Warner Cable shall maintain and operate its cable television system at all times in compliance with the duly promulgated and lawful provisions of Section 596 of the Rules and Regulations of the NYSPSC and the technical requirements set forth by the FCC. Time Warner Cable shall maintain staffing levels and support equipment to assure that telephone inquiries are handled promptly in order to minimize busy signals and hold time. Time Warner Cable shall have, at all times, a person on call able to perform minor repairs or corrections to malfunctioning equipment of the cable system. Time Warner Cable shall respond to individual requests for repair service no later than the next business day. System outages, and problems associated with channel scrambling and switching equipment, shall be acted upon promptly after notification. Time Warner Cable shall maintain a means to receive repair service requests and notice of system outages at times when its business office is closed. The Municipality shall have the right and authority to request an inspection or test performed, all at the Municipality's expense. Time Warner Cable shall fully cooperate in the performance of such testing.

(c) Throughout the term of this Franchise, Franchisee's Cable Television System shall have a minimum capacity of 750 MHz..

SECTION 14 - RATES

Time Warner Cable shall not illegally discriminate against individuals in the establishment and application of rates and charges for Video Programming or other communication services available to generally all subscribers.

SECTION 15 - SERVICE TO PUBLIC FACILITIES, ACCOUNTABILITY PROVISIONS AND INSPECTION OF RECORDS

(a) At the request of the Municipality, Time Warner Cable shall provide and maintain a single service outlet and basic service to any school, police station, firehouse and municipally owned building which is occupied for governmental purposes, provided the connection point is no further than two hundred feet (200') from the closest feeder line of the Cable Television System. All such connections shall be above ground except where all utility lines and cables in the area are underground. The Municipality shall not extend such service to additional outlets, without the express written consent of Time Warner Cable.

(b) Municipality, upon reasonable notice and during normal business hours, shall have the right to inspect all books, records, maps, plans, financial statements and other like materials of Time Warner Cable which are pertinent to Time Warner Cable's compliance with the terms and conditions of this Franchise.

(c) Municipality and Time Warner Cable agree that Time Warner Cable's obligations hereunder are subject to any applicable law, including laws regarding the privacy of information regarding subscribers.

(d) Municipality will maintain the confidentiality of any information obtained pursuant to this provision to the extent permitted by law, provided Time Warner Cable has advised Municipality of the confidential nature of the information. In the event that the Municipality receives request for the disclosure of such information with which it, in good faith, believes it must under law comply, then the Municipality will give Time Warner Cable notice of such request as soon as possible prior to disclosure in order to allow Time Warner Cable to take such steps as it may deem appropriate to seek judicial or other remedies to protect the confidentiality of such information. Time Warner Cable shall promptly advise the Municipality if Time Warner Cable contends the disclosure of information requested will violate any law or regulation, and provide the basis thereof to the Municipality.

SECTION 16 - PUBLIC, EDUCATIONAL AND GOVERNMENTAL ACCESS CHANNELS

Time Warner Cable shall comply with the standards for public, educational and governmental (PEG) access channels as set forth in Section 595.4 of the Rules of the NYSPSC.

SECTION 17 - ADDITIONAL SUBSCRIBER SERVICES

(a) Payment for equipment provided by Time Warner Cable to subscribers and the installation, repairs, and removal thereof shall be paid in accordance with Time Warner Cable's standard and customary practices and applicable rules and regulations of the FCC.

(b) Notice of Time Warner Cable's procedures for reporting and resolving billing disputes and Time Warner Cable's policy and the subscribers rights in regard to "personally identifiable information," as that term is defined in Section 631 of the Communications Act, will be given to each subscriber at the time of such person's initial subscription to the Cable Television System services and thereafter to all subscribers as required by Federal or State law.

(c) Time Warner Cable shall offer to, and shall notify in writing, the subscribers of the availability of locking program control devices which enable the subscriber to limit reception of obscene or indecent programming in the subscriber's residence.

(d) In accordance with the applicable requirements of Federal and State laws, Time Warner Cable shall provide written notice of any increases in rates or charges for any Cable Television Service.

(e) The Administrator, as the case may be, for the Municipality for this Franchise shall be Supervisor or Mayor of the Municipality. The Administrator is responsible for the continuing administration of the Franchise on behalf of the Municipality. All correspondence and communications between Time Warner Cable and the Municipality pursuant to this Franchise shall be addressed by Time Warner Cable to the Administrator.

(f) It is agreed that all Cable Television Service offered to any subscribers under this Franchise shall be conditioned upon Time Warner Cable having legal access to any such subscriber's dwelling units or other units wherein such service is provided.

(g) Time Warner Cable shall comply with the Customer Service Consumer Protection Standards set forth in Sections 590 and 596 of the Rules and Regulations of the NYSPSC.

(h) At least once each year, Time Warner Cable shall provide notice to each subscriber of its procedures for reporting and resolving subscriber complaints.

(I) Time Warner Cable will endeavor to establish a relationship with a local business where bill payments can be made, provided, however, Grantee is able to do so on reasonable terms and conditions.

SECTION 18 - FRANCHISE FEES

(a) Time Warner Cable shall pay the Municipality an amount equal to 3 % of Time Warner Cable's Gross Revenues received by Time Warner Cable directly from subscribers for cable services purchased by subscribers on a regular, recurring monthly basis.

(b) There shall be applied as a credit against the Franchise Fee the aggregate of: (~~i~~i) any taxes, fees or assessments of general applicability imposed on Time Warner Cable or any subscribers, or both, which are discriminatory against Time Warner Cable or any subscribers, (ii) any non-capital expenses incurred by Time Warner Cable in support of the PEG access requirements of this Franchise and (iii) any fees or assessments payable to the NYSPSC which when combined with all other fees and credits would exceed 5% of gross revenues. Time Warner Cable shall have the right to apply franchise fees paid as a credit against special franchise assessments pursuant to Section 626 of the New York State Real Property Tax Law.

(c) Payment of the franchise fee shall be paid to the Municipality quarterly on the 1st day of April, July, October and January. Time Warner Cable shall submit to the Municipality, along with the payment of said fees, a report showing reasonable detail the basis for the computation thereof.

SECTION 19 - SEVERABILITY, GOVERNING LAW, POLICE POWERS REQUESTS FOR AUTHORIZATION AND NON-DISCRIMINATION

(a) Should any provision of this Franchise be held invalid by a court or regulatory agency of competent jurisdiction, the remaining provisions of this franchise shall remain in full force and

effect.

(b) To the extent not inconsistent with or contrary to applicable federal law, the terms of this Franchise shall be governed and construed in accordance with the laws of the State of New York. The parties hereby acknowledge and agree that any provisions of this Franchise or any existing or future State or local laws or rules that are inconsistent with or contrary to any applicable Federal law, including the Cable Act, as the same may be amended, are and shall be prohibited, preempted and/or superseded to the extent of any inconsistency or conflict with any applicable Federal laws where Federal laws provide for preemption by the United States of America.

(c) In addition to the provisions contained in this Franchise and in existing applicable ordinances, the Municipality may adopt such additional regulations as it shall find necessary in the exercise of its police power, provided, however, that such regulations are reasonable and not materially in conflict with the privileges granted in this Franchise.

(d) Time Warner Cable shall file requests for any necessary operating authorization with the NYSPSC and the FCC within sixty (60) days from the date the Franchise is awarded by the Municipality.

(e) Time Warner Cable will not refuse to hire or employ, nor bar or discharge from employment, nor discriminate against any person in compensation or in terms, conditions or privileges of employment because of age, race, creed, color, national origin or sex.

SECTION 20 - NOTICE

All notices required herein shall be in writing and shall be deemed delivered when received by United States certified mail, return receipt requested, or on the date of delivery to addressee when sent by express mail, or overnight, or hand delivered to the parties and locations as specified below. Both Time Warner Cable and Municipality may change where notice is to be given by giving notice to the other.

When notices sent to
Time Warner Cable:

Time Warner Cable of Syracuse
Attention: General Manager
1117 Erie Blvd. West
Rome, New York 13440
Telephone: (315) 337-3112
Facsimile: (315) 337-0587

or

Time Warner Cable
Attention: Division President
6005 Fair Lakes Road
East Syracuse, New York 13057
Telephone: (315) 634-6200
Facsimile: (315) 463-2088

When notices sent to
Municipality:

Village of Chittenango
Attention: Mayor
222 Genesee Street
Chittenango, New York 13037
Telephone: (315)
Facsimile: (315)

SECTION 21 - FORCE MAJEURE

In no event, and notwithstanding any contrary provision in this Franchise, shall this Franchise be subject to revocation or termination, or Time Warner Cable be subject to penalty or prejudice or in any way liable for non-compliance with or delay in the performance of any obligations hereunder, where its failure to cure or take reasonable steps to cure is due to reason of strike, Acts of God, acts of public enemies, order of any kind of a government of the United States of America or of the State or any of their departments, agencies, political subdivisions; riots, epidemics, landslides, lightning, earthquakes, fires, hurricanes, tornadoes, volcanic activity, storms, floods, washouts, droughts, civil disturbances, explosions, partial or entire failure of utilities or any other cause or event not reasonably within the control of Time Warner Cable. Time Warner Cable shall not be deemed to be in violation or default during the continuance of such inability and Time Warner Cable shall be excused from its obligations herein during the course of any such events or conditions and the time specified for performance of Time Warner Cable's obligations hereunder shall automatically extend for a period of time equal to the period of the existence of any such events or conditions and such reasonable time thereafter as shall have been necessitated by any such events or conditions.

SECTION 22 - RIGHTS OF ENFORCEMENT

Nothing contained in this Franchise is intended to or shall confer any rights or remedies on any third parties to enforce the terms of this Franchise.

SECTION 23 - FURTHER ASSURANCES

The Municipality shall, without further consideration, execute and deliver such further instruments and documents and do such other acts and things as Time Warner Cable may reasonably request in order to effect and confirm this Franchise and the rights and obligations contemplated herein. Time Warner Cable shall, without further consideration, execute and deliver such further instruments and documents and do such other acts and things as Municipality may reasonably request in order to effect and confirm this Franchise and the rights and obligations contemplated herein.

SECTION 24 - INTEGRATION

This Franchise supersedes all prior negotiations between the parties hereto and shall be binding upon

and inure to the benefit of the parties hereto and each of their respective successors and permitted assigns. This Franchise may be amended (except as otherwise expressly provided for herein) only by agreement in writing signed by duly authorized persons on behalf of both parties. To the extent required by State law, amendments hereto shall be confirmed or approved by the NYSPSC.

This Franchise may be executed in one or more counterparts, all of which taken together shall be deemed one (1) original.

The headings of the various Sections of this Franchise are for convenience only, and shall not control or affect the meaning or construction of any of the provisions of the Franchise.

The rights and remedies of the parties pursuant to this Franchise are cumulative and shall be in addition to and not in derogation of any rights or remedies which the parties may have with respect to the subject matter of this Franchise.

SECTION 25 - NO JOINT VENTURE

Nothing herein shall be deemed to create a joint venture or any agency or employment relationship between the parties, and neither party is authorized to nor shall either party act toward any third parties or to the public in any manner which would indicate any such relationship with the other.

IN WITNESS WHEREOF, the parties hereto have executed this agreement this 22 day of April, 2003.

TIME WARNER ENTERTAINMENT-ADVANCE/NEWHOUSE PARTNERSHIP

By: Mary Slaters
Officer Name

Title: President

MUNICIPALITY: VILLAGE OF CHITTENANGO

By: Robert Freunscht
Robert Freunscht

Title: Mayor

APPLICATION FOR RENEWAL OF FRANCHISE
OR CERTIFICATE OF CONFIRMATION
(Form R-2):

1. The exact legal name of applicant is :

Time-Warner Entertainment-Advance/Newhouse Partnership

2. Applicant does business under the following name or names:

Time Warner Cable - Syracuse Division

3. Applicant's mailing address is:

6005 Fair Lakes Road

P.O. Box 4733

East Syracuse, NY 13221

4. Applicant's telephone number(s) is (are):

(315) 463-2288 Time Warner Cable
6005 Fair Lakes Road
East Syracuse, NY 13057

(315) 337-1120 Time Warner Cable
1117 Erie Blvd. W.
Rome, NY 13440

5. (a) This application is for the renewal of operating rights in the

Village of Chittenango - Madison County
(Municipality & County)

(b) Applicant serves the following additional municipalities from the same headend or from a different headend but in the same or adjacent county:

See Attached List (Exhibit 1)

6. The number of subscribers in each of the municipalities noted above is:

- Primary residential connections	See Question #5(b)
- Secondary residential connections	N/A
- Residential pay-cable subscriptions	N/A
- Commercial connections	N/A
- Other	N/A

7. The following signals are regularly carried by the applicant's cable system (where signals are received other than by direct off-air pickup, please so indicate):

See Attached Channel Line-Up Card (Exhibit A)

8. Applicant does __X__ does not _____ provide channel capacity and/or production facilities for local origination. If answer is affirmative, specify below the number of hours of locally originated programming carried by the system during the past twelve months and briefly describe the nature of the programming:

Applicant has carried over 100 hours of locally originated programming of various types, including PEG Access.

9. The current monthly rates for service in the municipality specified in Question 5(a) are:

- Primary residential connections	See Attached Rate Card (Exhibit A)
- Secondary residential connections	See Attached Rate Card (Exhibit A)
- Pay-cable subscriptions	See Attached Rate Card (Exhibit A)
- Commercial connections	See Attached Rate Card (Exhibit A)
- Other	See Attached Rate Card (Exhibit A)

10. How many miles of new cable television plant were placed in operation by applicant during the past twelve months in the municipality specified in Question 5(a)? 0.0 miles In the municipalities specified in Question 5(b)? See Attached List (Exhibit 2)

11. State and describe below any significant achievements and/or improvements that took place with respect to system operation during the past twelve months:

n/a

12. Indicate whether applicant has previously filed with the NYS Department of Public Service its:

(a) Current Statement of Assessment pursuant to Section 217 Chapter 83?
__X__ Yes _____ No

(b) Current Annual Financial Report? __X__ Yes _____ No

If answer to any of the above is negative, please explain:

N/A

13. Has any event or change occurred during the past twelve months which has had, or could have, a significant impact upon applicant's ability to provide cable television service? If so describe below:

No event or change has occurred during the past twelve months which has had, or could have, a significant impact upon applicant's ability to provide cable television services.

WHEREFORE, the applicant, Time Warner Cable, requests that the New York State Public Service Commission grant this application and approve the Village of Chittenango Certificate of Confirmation and Franchise Agreement.

Mary L. Cotter
President
Time Warner Cable - Syracuse Division

Dated: May 12, 2003

Please attach a copy of applicant's current annual performance test.

STATE OF NEW YORK)
) S.S.:
COUNTY OF ONONDAGA)

MARY L. COTTER, being sworn, says:

1. I am President of the Syracuse Division of Time Warner Cable and I am familiar with the business operations of the Company

2. This application was prepared by me or under my direct supervision.

3. All of the statements and information contained herein are true and accurate to the best of my knowledge and belief.

Mary L. Cotter

Sworn to before me this

12th day of May, 2003

Notary Public

Gary J. Corbett
Notary Public, State of New York
No. 01C04700481
Qualified in Onondaga County
My Commission Expires March 31, 2006

EXHIBIT A

TIME WARNER CABLE

We're also pleased to announce our new Digital Video Recorder (DVR) service, letting you watch TV on your schedule. Now, you can find and automatically record your favorite shows, right in your cable box. Our new DVR-capable Home Terminals let you record two different programs simultaneously, or watch one program and record another at the same time. The service also features "picture-in-picture" and the ability to pause, rewind and fast-forward recorded programs—you can even pause live TV for up to an hour, then resume watching exactly where you left off! Our DVR service lets you record up to 40 hours of programming, and the easy-to-use on-screen menus and our Interactive Program Guide make it easy to learn, with no expensive equipment to buy. Call our office if you'd like more information or to order our DVR service.

Time Warner Cable is pleased to be the first in your community to offer a variety of television services in high-definition (HDTV) format: HBO and Showtime provide full-time HD feeds, and both WCNY and WSTM recently launched Digital broadcast services, including some primetime programming in HD. A special Digital Home Terminal is required to receive high-definition signals—and, of course, you'll need a HDTV-set. Contact your local office for more information.

The costs to provide these services and the greater variety of new and exciting programming have risen over the past year. To offset these rising business costs, we will introduce new prices for some components of our service effective January 1, 2003. Our new monthly rate for Basic Service will be $8.84, and Standard Service will be $42.89. Detailed rate information for services and equipment can be found on the panel to the right.

We recognize that you have a variety of entertainment options, and we appreciate the opportunity to serve you. We are committed to providing you with the highest quality choices and value. For more information on Time Warner Cable and our available services, visit our website at *www.twcny.com*.

Time Warner Cable

Rates & Services

OF

	Effective 1/1/03
A. *Cable Service:*	
Basic Service (18 channels):	$8.84
Standard Service (73 channels): (Consists of Basic Service @ $8.84/mo. + all Standard channels @ $34.05/mo.)	$42.89
Vacation Basic	$5.00
Channel Guide Monthly Publication	$2.75
Customers who take more than one of our Premium movie services receive substantial discounts on our a la carte rates. Please see your statement for further details, or call our office for more information on our great premium packages.	
B. *Premium Services:**	
Home Box Office	$10.25
Cinemax	$8.95
Showtime	$8.95
The Movie Channel (Digital Only)	$8.95
STARZ!	$7.75
** Additional equipment required to receive these premium services (except for HBO).*	
C. *Digital Cable Services**	
Full Digital Cable Service *(includes channels 100-209, plus Digital Navigator Package)*	$10.00
Digital Plus *(channels 100-199, plus (Digital Navigator Package)*	$8.95
Digital Movie Pak *(includes channels 200-209, plus Digital Navigator Package)*	$7.95
Digital Navigator Package *(includes Interactive Program Guide, 40 Music Choice channels, plus access to iNDEMAND and premium services)*	$3.95
Digital Programming on Additional Outlet (each)	$ .95
Digital Video Recorder (DVR) Service	$ 9.95
** Digital Terminal required for all Digital Cable services.*	
D. *Equipment:*	
Home Terminal (analog)/Digital Terminal	$6.60
Remote/ Digital Remote	$ .35
E. *Installation Charges:*	
Standard Install/Reconnect (pre-wired home)	$31.81
Standard Installation (unwired home)	$45.86
Hourly Service Charge	$37.62
Additional Outlet(s) at time of initial installation	$19.89
Additional Outlet(s), separate trip	$31.74
(Sales tax will be applied to installation charges)	

Digital Terminal is required in order to receive some channels and/or services. Rates and charges apply to standard residential installations and service. The above rates for cable service packages and equipment do not include franchise fees or State and Federal regulatory fees.

TIME WARNER CABLE

426 Fairview Avenue • Oneida, NY 13421
(315) 363-4832 or 800-451-4525 • www.twcny.com

Chittenango

(inc. Oneida Castle, Chittenango, Sullivan)

1/1/03

ard

BASIC CABLE

2 WKTV-2 (Utica, NBC)
3 WSTM-3 (Syracuse, NBC)
4 WCNY-24 (Syracuse, PBS)
5 WTVH-5 (Syracuse, CBS)
7 WNYS-43 (Syracuse, WB)
8 WSYT-68 (Syracuse, FOX)
9 WIXT-9 (Syracuse, ABC)
10 Local WeatherNOW
11 WUTR-20 (Utica, ABC)
12 WFXV-33 (Utica, FOX)
13 WSBK (Boston, UPN)
14 CKWS-11 (Kingston, CBC)
15 TBS
16 WGN (Chicago, IND)
17 C-SPAN
18 WSPX-56 (Syracuse, PAX)
19 QVC
99 Local Access

STANDARD SERVICE

20 HSN: Home Shopping Network
21 USA
22 ABC Family
23 TV Guide Channel
24 ESPN
25 ESPN 2
26 CNN
27 TNT
28 TNN: The National Network
29 VH-1
30 The Weather Channel
31 Animal Planet
32 A&E
33 Nickelodeon
34 E!
35 The Discovery Channel
36 YES: Yankees Sports
37 CMT: Country Music Television
38 TLC: The Learning Channel
39 Food Network
40 Court TV
41 EWTN
42 MSNBC
43 Headline News
44 fX Network
45 FOX Sports New York
46 HGTV: Home & Garden TV
47 Sci-Fi Channel
48 Lifetime
49 Comedy Central
50 Empire Sports Network
51 Bravo
52 Hallmark Channel
53 Travel Channel
54 TV Land
55 National Geographic
56 FOX News Channel
57 The History Channel
58 BET
59 Cartoon Network
60 AMC: American Movie Classics
61 MTV
62 CNBC
63 C-SPAN 2
64 ESPN Classic
65 MSG: Madison Square Garden
66 TCM: Turner Classic Movies
67 The Golf Channel
68 WE: Women's Entertainment
69 The Disney Channel
70 Lifetime Movie Network
72 Shop NBC
73 Oxygen
78 SoapNet
96 Leased Access

PREMIUM CHANNELS

6 HBO
75 Showtime
76 HBO2
77 Cinemax
79 STARZ!

TIME WARNER HOME THEATER: IN DEMAND

71 iN DEMAND 1
1-800-934-4481
74 iN DEMAND 3 (6am-10pm)
1-800-934-4484
74 Spice (10pm-6am)
1-800-723-4486

EXHIBIT B

Digital Cable Lineup

100 MSG – Madison Square Garden
101 ESPN Classic
102 The Golf Channel
103 Speed Channel
105 Outdoor Channel
106 FOX Sports World
107 ESPNews
109 Information
110 TCM: Turner Classic Movies
111 AMC: American Movie Classics
112 Lifetime Real Women
120 Discovery Kids
121 Discovery Science
122 Discovery Wings
123 Discovery Health
124 Discovery Civilization
125 Discovery Leisure
126 The History Channel
127 History International
128 National Geographic
129 BBC America
130 The Biography Channel
131 Court TV
132 CNNfn
133 C-SPAN3
134 Newsworld International
135 Bloomberg
136 CNBC World
137 Tech TV
138 Do It Yourself
139 International Channel
140 CMT: Country Music TV
141 Great American Country
142 MTV2
143 MuchMusic
144 VH1 Classic
145 BET on Jazz
150 Ovation
151 Bravo
152 TRIO
159 Fine Living
160 Style
161 Health Network
162 Game Show Network
163 America's Store
170 Disney
171 Disney West
172 Toon Disney
173 Noggin
174 Nick Too
175 Nick Gas
176 Boomerang
190 TBN–Trinity Broadcasting Network
200 Encore
201 Encore West
202 Encore Action
203 Encore Love Stories
204 Encore Mystery
205 Encore Westerns
206 Encore True Stories
207 WAM!
208 FOX Movie Channel
209 IFC: Independent Film Channel

Premium Channels
additional fees apply.

300 HBO
301 HBO West
302 HBO2
303 HBO2 West
304 HBO Signature
305 HBO Signature West
306 HBO Family
307 HBO Family West
308 HBO Comedy
309 HBO Comedy West
310 HBO Zone
311 HBO Zone West
312 HBO Latino
313 HBO Latino West
320 Cinemax
321 Cinemax West
322 MoreMax
323 MoreMax West
324 ThrillerMax
325 ThrillerMax West
326 ActionMax
327 ActionMax West
328 wmax
329 @max
330 5starmax
331 outermax
340 Showtime
341 Showtime Too
342 Showtime Showcase
343 Showtime Extreme
344 Showtime Beyond
345 Showtime Next
346 Showtime Women
347 Showtime Family Zone
350 The Movie Channel
351 The Movie Channel Xtra
360 STARZ!
361 STARZ! West
362 STARZ! Theater
363 STARZ! Theater West
364 STARZ! Family
365 STARZ! Family West
366 STARZ! Cinema
367 STARZ! Cinema West
368 Black STARZ!
369 Black STARZ! West

High Definition and Digital Broadcast Channels

800 HBO HDTV
801 Showtime HDTV
850 WCNY (Syracuse, PBS)
851 WCNY "PBS Kids"
852 WCNY "PBS You"
863 WSTM (Syracuse, NBC)

** HD-compatible converter and TV set required to receive HD signals.*

Chittenango
(inc. Oneida Castle, Chittenango, Sullivan)

Dear Time Warner Cable Customer:

We're pleased to bring you up-to-date with your Time Warner Cable service, provide you with a new channel lineup card (attached) that features all of our available channels, describe some exciting new features and detail changes to our rates for some services effective January 1.

This past year, we've strived to enhance our programming by adding several new networks to our Standard service. We increased your lineup with four new channels including YES: Yankees Entertainment and Sports, The National Geographic Channel, Lifetime Movie Network and Local WeatherNOW, found exclusively on Time Warner Cable channel 10.

If you don't have Digital Cable, see what you're missing by reviewing our Digital lineup. Then, call us to add this service which also features: an easy-to-use Interactive Program Guide; 45 commercial-free, Digital music channels; access to 39 Pay-Per-View channels with Time Warner Home Theatre; sports packages like the NBA League Pass, NHL Center Ice and ESPN Full Court (college basketball); and, more than 55 screens of commercial-free premium movie channels. There has never been a better time to join the Digital Cable revolution, and with our introduction of our video-on-demand service you'll even be able to browse a library of movies and your favorite programs and order, play, pause, rewind and fast-forward those with the touch of a button.

TIME WARNER CABLE

OF

CURRENT ANNUAL PERFORMANCE TEST

Table of Contents

TIME WARNER CABLE
SYRACUSE DIVISION

CATV

Proof - of - Performance Tests

System Name: ROME/ONEIDA

Plant Mileage: 1235.5 **As of** JULY 2, 2002

Basic Subscribers: 43,364 **As of** JULY 2, 2002

System Bandwidth: 550 MHZ **As of** JULY 2, 2002

Number of Channels Tested: 9

Number of Test Points: 9

Test Start Date: JULY 2, 2002

Test Completion Date: AUGUST 30, 2002

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME: TIME WARNER CABLE ROME/ONEIDA **DATE:** JULY 2,2002

FCC TESTING SUMMARY

Changes Since Last Proof of Performance:

TIME WARNER PURCHASED THE NU-VIEW CABLE TV SYSTEM
MADISON, BOUCKVILLE AND ORISKANY FALLS AREAS
SYSTEM WILL BE A FIBER HUB THROUGH ONEIDA FROM ROME
OLD NU-VIEW SYSTEM HAS BEEN REBUILT TO 750MHZ WITH DIGITAL AND HSO AVAILABLE
CROW HILL RD TEST POINT WAS ADDED AND TUSCARORA TEST POPINT WAS REMOVED

Test Results:

ALL TEST POINT LOCATIONS MET OR EXCEEDED FCC PROOF OF PERFORMANCE STANDARDS.

Miscellaneous:

ALL UPGRADES AT THIS TIME ARE COMPLETE

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME: TIME WARNER CABLE ROME/ONEIDA **DATE:** JULY 2,2002

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SCRAM "S"	DATA "D"	CALL LTR	PROG SOURCE
2	55.2500	2	TV			WKTV	OFF-AIR
3	61.2500	3	TV			WSTM	OFF-AIR
4	67.2500	4	TV			WCNY	OFF-AIR
5	77.2500	5	TV			WTVH	OFF-AIR
6	83.2500	6	TV			HBO	SATELLITE
A-5	91.2500	79	TV	S		STARZ	SATELLITE
A-4	97.2500	96	TV			LOCAL/ACC.	VCR/TVSS/METS
A-3	103.2500						
A-2	109.2750						
A-1	115.2750	99	TV	S		MAX/2	SATELLITE
A	121.2625	14	TV			CKWS	MICROWAVE
B	127.2625	15	TV			WTBS	SATELLITE
C	133.2625	16	TV			WGN	SATELLITE
D	139.2500	17	TV		D	C-SPAN	SATELLITE
E	145.2500	18	TV			WSPX	OFF-AIR
F	151.3210	19	TV			QVC	SATELLITE
G	157.2500	20	TV			HSN	SATELLITE
H	163.2500	21	TV			USA	SATELLITE
I	169.2500	22	TV			FAMILY	SATELLITE
7	175.2500	7	TV			WNYS	OFF-AIR
8	181.2500	8	TV			WSYT	OFF-AIR
9	187.2500	9	TV			WIXT	OFF-AIR
10	193.2500	10	TV			LOCAL/ACC.	LOCAL/ORIG.
11	199.2500	11	TV			WUTR	OFF-AIR
12	205.2500	12	TV			WFXV	OFF-AIR
13	211.2500	13	TV			WSBK	SATELLITE
J	217.2500	23	TV		D	PREVUE	SATELLITE
K	223.2500	24	TV			ESPN	SATELLITE
L	229.2625	25	TV		D	ESPN/2	SATELLITE
M	235.2625	26	TV			CNN	SATELLITE
N	241.2625	27	TV			TNT	SATELLITE
O	247.2625	28	TV			TNN	SATELLITE
P	253.2625	29	TV			VH1	SATELLITE
Q	259.2625	30	TV			TWC	SATELLITE
R	265.2625	31	TV			A/P	SATELLITE
S	271.2625	32	TV			A&E	SATELLITE
T	277.2625	33	TV			NICK	SATELLITE
U	283.2625	34	TV			EI TV	SATELLITE
V	289.2625	35	TV			TDC	SATELLITE
W	295.2625	36	TV			WBU	SATELLITE
AA	301.2625	37	TV			CMTV	SATELLITE
BB	307.2625	38	TV			TLC	SATELLITE
CC	313.2625	39	TV			TFN	SATELLITE
DD	319.2625	40	TV			COURT TV	SATELLITE
EE	325.2625	41	TV			EWTN	SATELLITE
FF	331.2750	42	TV			MSNBC	SATELLITE
GG	337.2625	43	TV		D	CNN/HL	SATELLITE
HH	343.2625	44	TV			F/X	SATELLITE
II	349.2625	45	TV		D	SPCH	SATELLITE
JJ	355.2625	46	TV			HGTV	SATELLITE
KK	361.2625	47	TV			SCI-FI	SATELLITE
LL	367.2625	48	TV			LIFETIME	SATELLITE
MM	373.2625	49	TV			COMEDY	SATELLITE
NN	379.2625	50	TV			EMPIRE SPORT	SATELLITE
OO	385.2625	51	TV			BRAVO	SATELLITE
PP	391.2625	52	TV		D	ODYSSEY	SATELLITE
QQ	397.2625	53	TV		D	TRAVEL	SATELLITE
RR	403.2500	54	TV		D	TVLAND	SATELLITE
SS	409.2500	55	TV		D	CNN/SI	SATELLITE
TT	415.2500	56	TV			FOX NEWS	SATELLITE
UU	421.2500	57	TV			HISTORY	SATELLITE
VV	427.2500	58	TV			BET	SATELLITE
WW	433.2500	59	TV		D	CARTOON	SATELLITE
XX	439.2500	60	TV		D	AMC	SATELLITE
YY	445.2500	61	TV			MTV	SATELLITE
ZZ	451.2500	62	TV		D	CNBC	SATELLITE
63	457.2500	63	TV		D	CSPAN2/YANKE	SATELLITE
64	463.2500	64	TV		D	CLASSIC SP.	SATELLITE
65	469.2500	65	TV		D	MSG	SATELLITE
66	475.2500	66	TV		D	TCM	SATELLITE
67	481.2500	67	TV		D	GOLF	SATELLITE
68	487.2500	68	TV		D	WE	SATELLITE
69	493.2500	69	TV		D	DISNEY	SATELLITE
70	499.2500	70	TV			BLANK	MODULATOR
71	505.2500	71	TV	S		V/CH	SATELLITE
72	511.2500	72	TV		D	SHOP.NBC	SATELLITE
73	517.2500	73	TV		D	OXYGEN	SATELLITE
74	523.2500	74	TV	S		VC/4 & SPICE	SATELLITE
75	529.2500	75	TV	S		SHOWTIME	SATELLITE
76	535.2500	76	TV	S		HBO/2	SATELLITE
77	541.2500	77	TV	S		MAX	SATELLITE
78	547.2500	78	TV		D	SOAPNET	SATELLITE

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME: BOONVILLE HUB SITE **DATE:** JULY 2,2002

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SCRAM "Y"	VITS "Y"	CALL LTR	PROG SOURCE
2	55.2500	2					
3	61.2500	3	TV			WWNY	OFF-AIR
4	67.2500	4					
5	77.2500	5					
6	83.2500	6					
A-5	91.2500	79					
A-4	97.2500	96					
A-3	103.2500						
A-2	109.2750						
A-1	115.2750	99					
A	121.2625	14					
B	127.2625	15					
C	133.2625	16					
D	139.2500	17					
E	145.2500	18					
F	151.3210	19					
G	157.2500	20					
H	163.2500	21					
I	169.2500	22					
7	175.2500	7					
8	181.2500	8	TV			WPBS	OFF-AIR
9	187.2500	9					
10	193.2500	10	TV			LOC/ACCESS	CG AT ROME HE
11	199.2500	11					
12	205.2500	12					
13	211.2500	13					
J	217.2500	23					
K	223.2500	24					
L	229.2625	25					
M	235.2625	26					
N	241.2625	27					
O	247.2625	28					
P	253.2625	29					
Q	259.2625	30					
R	265.2625	31					
S	271.2625	32					
T	277.2625	33					
U	283.2625	34					
V	289.2625	35					
W	295.2625	36					
AA	301.2625	37					
BB	307.2625	38					
CC	313.2625	39					
DD	319.2625	40					
EE	325.2625	41					
FF	331.2750	42					
GG	337.2625	43					
HH	343.2625	44					
II	349.2625	45					
JJ	355.2625	46					
KK	361.2625	47					
LL	367.2625	48					
MM	373.2625	49					
NN	379.2625	50					
OO	385.2625	51					
PP	391.2625	52					
QQ	397.2625	53					
RR	403.2500	54					
SS	409.2500	55					
TT	415.2500	56					
UU	421.2500	57					
VV	427.2500	58					
WW	433.2500	59					
XX	439.2500	60					
YY	445.2500	61					
ZZ	451.2500	62					
63	457.2500	63					
64	463.2500	64					
65	469.2500	65					
66	475.2500	66					
67	481.2500	67					
68	487.2500	68					
69	493.2500	69					
70	499.2500	70					
71	505.2500	71					
72	511.2500	72					
73	517.2500	73					
74	523.2500	74					
75	529.2500	75					
76	535.2500	76					
77	541.2500	77					
78	547.2500	78					

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME: HAMILTON HUB SITE **DATE:** JULY 2,2002

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SCRAM "Y"	VITS "Y"	CALL LTR	PROG SOURCE
2	55.2500	2					
3	61.2500	3					
4	67.2500	4					
5	77.2500	5					
6	83.2500	6					
A-5	91.2500	79					
A-4	97.2500	96					
A-3	103.2500						
A-2	109.2750						
A-1	115.2750	99					
A	121.2625	14					
B	127.2625	15					
C	133.2625	16					
D	139.2500	17					
E	145.2500	18					
F	151.3210	19					
G	157.2500	20					
H	163.2500	21					
I	169.2500	22					
7	175.2500	7					
8	181.2500	8					
9	187.2500	9					
10	193.2500	10	TV			PA-10	SHER-EARLVILLE H
11	199.2500	11	TV			WSKG-46	OFF-AIR
12	205.2500	12					
13	211.2500	13					
J	217.2500	23					
K	223.2500	24					
L	229.2625	25					
M	235.2625	26					
N	241.2625	27					
O	247.2625	28					
P	253.2625	29					
Q	259.2625	30					
R	265.2625	31					
S	271.2625	32					
T	277.2625	33					
U	283.2625	34					
V	289.2625	35					
W	295.2625	36					
AA	301.2625	37					
BB	307.2625	38					
CC	313.2625	39					
DD	319.2625	40					
EE	325.2625	41					
FF	331.2750	42					
GG	337.2625	43					
HH	343.2625	44					
II	349.2625	45					
JJ	355.2625	46					
KK	361.2625	47					
LL	367.2625	48					
MM	373.2625	49					
NN	379.2625	50					
OO	385.2625	51					
PP	391.2625	52					
QQ	397.2625	53					
RR	403.2500	54					
SS	409.2500	55					
TT	415.2500	56					
UU	421.2500	57					
VV	427.2500	58					
WW	433.2500	59					
XX	439.2500	60					
YY	445.2500	61					
ZZ	451.2500	62					
63	457.2500	63					
64	463.2500	64					
65	469.2500	65					
66	475.2500	66					
67	481.2500	67					
68	487.2500	68					
69	493.2500	69					
70	499.2500	70					
71	505.2500	71					
72	511.2500	72					
73	517.2500	73					
74	523.2500	74					
75	529.2500	75					
76	535.2500	76					
77	541.2500	77					
78	547.2500	78					

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME: ONEIDA HUB SITE **DATE:** JULY 2,2002

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SCRAM "Y"	VITS "Y"	CALL LTR	PROG SOURCE
2	55.2500	2					
3	61.2500	3					
4	67.2500	4					
5	77.2500	5					
6	83.2500	6					
A-5	91.2500	79					
A-4	97.2500	96					
A-3	103.2500						
A-2	109.2750						
A-1	115.2750	99					
A	121.2625	14					
B	127.2625	15					
C	133.2625	16					
D	139.2500	17					
E	145.2500	18					
F	151.3210	19					
G	157.2500	20					
H	163.2500	21					
I	169.2500	22					
7	175.2500	7					
8	181.2500	8					
9	187.2500	9					
10	193.2500	10	TV			PAC-10	ONEIDA H.S.
11	199.2500	11					
12	205.2500	12					
13	211.2500	13					
J	217.2500	23					
K	223.2500	24					
L	229.2625	25					
M	235.2625	26					
N	241.2625	27					
O	247.2625	28					
P	253.2625	29					
Q	259.2625	30					
R	265.2625	31					
S	271.2625	32					
T	277.2625	33					
U	283.2625	34					
V	289.2625	35					
W	295.2625	36					
AA	301.2625	37					
BB	307.2625	38					
CC	313.2625	39					
DD	319.2625	40					
EE	325.2625	41					
FF	331.2750	42					
GG	337.2625	43					
HH	343.2625	44					
II	349.2625	45					
JJ	355.2625	46					
KK	361.2625	47					
LL	367.2625	48					
MM	373.2625	49					
NN	379.2625	50					
OO	385.2625	51					
PP	391.2625	52					
QQ	397.2625	53					
RR	403.2500	54					
SS	409.2500	55					
TT	415.2500	56					
UU	421.2500	57					
VV	427.2500	58					
WW	433.2500	59					
XX	439.2500	60					
YY	445.2500	61					
ZZ	451.2500	62					
63	457.2500	63					
64	463.2500	64					
65	469.2500	65					
66	475.2500	66					
67	481.2500	67					
68	487.2500	68					
69	493.2500	69					
70	499.2500	70					
71	505.2500	71					
72	511.2500	72					
73	517.2500	73					
74	523.2500	74					
75	529.2500	75					
76	535.2500	76					
77	541.2500	77					
78	547.2500	78					

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME: CAMDEN HUB SITE **DATE:** JULY 2,2002

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SCRAM "Y"	VITS "Y"	CALL LTR	PROG SOURCE
2	55.2500	2					
3	61.2500	3					
4	67.2500	4					
5	77.2500	5					
6	83.2500	6					
A-5	91.2500	79					
A-4	97.2500	96					
A-3	103.2500						
A-2	109.2750						
A-1	115.2750	99					
A	121.2625	14					
B	127.2625	15					
C	133.2625	16					
D	139.2500	17					
E	145.2500	18					
F	151.3210	19					
G	157.2500	20					
H	163.2500	21					
I	169.2500	22					
7	175.2500	7					
8	181.2500	8					
9	187.2500	9					
10	193.2500	10	TV			PAC-10	CAMDEN H.S.
11	199.2500	11					
12	205.2500	12					
13	211.2500	13					
J	217.2500	23					
K	223.2500	24					
L	229.2625	25					
M	235.2625	26					
N	241.2625	27					
O	247.2625	28					
P	253.2625	29					
Q	259.2625	30					
R	265.2625	31					
S	271.2625	32					
T	277.2625	33					
U	283.2625	34					
V	289.2625	35					
W	295.2625	36					
AA	301.2625	37					
BB	307.2625	38					
CC	313.2625	39					
DD	319.2625	40					
EE	325.2625	41					
FF	331.2750	42					
GG	337.2625	43					
HH	343.2625	44					
II	349.2625	45					
JJ	355.2625	46					
KK	361.2625	47					
LL	367.2625	48					
MM	373.2625	49					
NN	379.2625	50					
OO	385.2625	51					
PP	391.2625	52					
QQ	397.2625	53					
RR	403.2500	54					
SS	409.2500	55					
TT	415.2500	56					
UU	421.2500	57					
VV	427.2500	58					
WW	433.2500	59					
XX	439.2500	60					
YY	445.2500	61					
ZZ	451.2500	62					
63	457.2500	63					
64	463.2500	64					
65	469.2500	65					
66	475.2500	66					
67	481.2500	67					
68	487.2500	68					
69	493.2500	69					
70	499.2500	70					
71	505.2500	71					
72	511.2500	72					
73	517.2500	73					
74	523.2500	74					
75	529.2500	75					
76	535.2500	76					
77	541.2500	77					
78	547.2500	78					

RATE MUX NUMBER	QAM NAME	QAM FREQUENCY	ANALOG CHANNEL	MOD. TYPE	SESSION NUMBER	MPEG IN	MPEG OUT	G-BIG MPEG	SERVICE	QAM SOURCE	DIGITAL CHANNEL
N/A SWIF *	QAM1	567MHz	81	64	Below 20			128-138	BFS,IPG,etc.	DNCS	N/A
GBIG 4		BIG QAM	reserve 24 sessions								
2B	QAM2	591 / 525 MHz	85 / 74	256	1911	12	12	8	iNDemand 1	Satcom C3 Tr 3	401
GBIG 2	11	reserve 20 sessions			1916	6	6	6	iNDemand 2	Satcom C3 Tr 3	402
	Rmux add	172.16.4.222			1913	3	3	3	iNDemand 3	Satcom C3 Tr 3	403
					1914	4	4	4	iNDemand 4	Satcom C3 Tr 3	404
					1915	5	5	5	iNDemand 5	Satcom C3 Tr 3	405
					1917	7	7	7	iNDemand 6	Satcom C3 Tr 3	406
					1912	2	2	2	HC	Satcom C3 Tr 3	490
					1106	1	1	1	Outdoor Channel	Athena 1	105
	Tune to analog in the North Country				1130	2	22	9	History	Athena 1	130
					1182	102	102	10	MTV2	Athena 1	142
					1184	101	101	11	Noggin	Athena 1	173
1A	QAM3	597 / 507 MHz	86 / 71	256	1300	1	1	1	HBO East	Galaxy 1 Tr 23(I)	300
GBIG 1	12	reserve 20 sessions			1301	2	2	2	HBO Plus East	Galaxy 1 Tr 23(I)	302
	Rmux add	172.16.4.220			1302	3	3	3	HBO Signature East	Galaxy 1 Tr 23(I)	304
					1303	4	4	4	HBO Family East	Galaxy 1 Tr 23(I)	306
					1307	8	8	5	HBO Latino East	Galaxy 1 Tr 23(I)	312
					1310	21	21	6	Max East	Galaxy 1 Tr 23(I)	320
					1311	22	22	7	More Max East	Galaxy 1 Tr 23(I)	322
					1313	23	23	8	Action Max East	Galaxy 1 Tr 23(I)	326
					1370	7	7	9	WMAX East	Galaxy 1 Tr 18(I)	328
					1371	27	27	10	@MAX East	Galaxy 1 Tr 18(I)	329
					1372	44	44	12	5 StarMAX East	Galaxy 1 Tr 18(I)	330
					1373	30	30	11	OuterMAX East	Galaxy 1 Tr 18(I)	331
1B	QAM4	603 / 513 MHz	87 / 72	256	1312	24	24	33	Thriller Max East	Galaxy 1 Tr 18(I)	324
GBIG 1	13	reserve 20 sessions			1305	26	26	32	HBO Zone East	Galaxy 1 Tr 18(I)	310
	Rmux add	172.16.4.248			1304	6	11	31	HBO Comedy East	Galaxy 1 Tr 18(I)	308
					1113	7	7	27	Encore	Galaxy 1 Tr 13	200
					1201	8	8	28	Encore West	Galaxy 1 Tr 13	201
					1206	9	9	29	WAM!	Galaxy 1 Tr 13	207
					1330	1	1	21	Starz!	Galaxy 1 Tr 13	360
					1357	2	2	22	Starz! West	Galaxy 1 Tr 13	361
					1331	3	3	23	Starz!2	Galaxy 1 Tr 13	362
					1332	4	4	24	Starz!4 Family	Galaxy 1 Tr 13	364
					1333	6	6	26	Starz!5 Cinema	Galaxy 1 Tr 13	366
					1358	10	10	30	Starz!5 Cinema West	Galaxy 1 Tr 13	367
					1334	5	5	25	Bet Movies	Galaxy 1 Tr 13	368
3A	QAM5	621 / 531 MHz	90 / 75	256	1918	8	8	22	iNDemand 7	Satcom C4 Tr 18	407
GBIG 2	10	reserve 20 sessions			1919	9	9	23	iNDemand 8	Satcom C4 Tr 18	408
	Rmux add	172.16.4.246			1920	10	10	24	iNDemand 9	Satcom C4 Tr 18	409
					1921	11	11	25	iNDemand 10	Satcom C4 Tr 18	410
					1922	1	1	21	iNDemand 11	Satcom C4 Tr 18	411
					1923	12	12	26	iNDemand 12	Satcom C4 Tr 18	412
					2913	13	13	27	iNDemand 13	Satcom C4 Tr 18	413
					2914	14	14	28	iNDemand 14	Satcom C4 Tr 18	414
					1219	1	3	30	National Geographic	Satcom C3 Tr 1	128
					1100	2	2	29	MSG	Local MPEG Encoders	100
3B	QAM6	627 / 537 MHz	91 / 76	256	2915	1	1	41	iNDemand 15	Telstar 7 Tr 2	415
GBIG 2	13	reserve 20 sessions			2916	2	2	42	iNDemand 16	Telstar 7 Tr 2	416
	Rmux add	172.16.4.221			2917	3	3	43	iNDemand 17	Telstar 7 Tr 2	417
					2918	4	4	44	iNDemand 18	Telstar 7 Tr 2	418
					2919	5	5	45	iNDemand 19	Telstar 7 Tr 2	419
					2920	6	6	46	iNDemand 20	Telstar 7 Tr 2	420
					2921	7	7	47	iNDemand 21	Telstar 7 Tr 2	421
					2922	8	8	48	iNDemand 22	Telstar 7 Tr 2	422
					1102	38	38	50	ESPN Classic	Athena 1	101
					1103	37	37	49	Golf Ch.	Athena 1	102
					1161	39	39	51	Health	Athena 1	161
					1140	40	40	52	CMT	Athena 1	140
					1163	4	14	53	America's Store	Athena 1	163

6B	QAM7	639 / 495 MHz	93 / 69	256	1362	11	11	21	HBO West	Galaxy 1 Tr 23(Q)	301
GBIG 5	11				1363	12	12	22	HBO Plus West	Galaxy 1 Tr 23(Q)	303
	Rmux addr	172.16.4.245			1364	13	13	23	HBO Signature West	Galaxy 1 Tr 23(Q)	305
					1365	14	14	24	HBO Family West	Galaxy 1 Tr 23(Q)	307
					1366	18	18	26	HBO Latino West	Galaxy 1 Tr 23(Q)	313
					1367	31	31	27	Max West	Galaxy 1 Tr 23(Q)	321
					1368	32	32	28	More Max West	Galaxy 1 Tr 23(Q)	323
					1369	33	33	29	Action Max West	Galaxy 1 Tr 23(Q)	327
					1374	15	15	25	HBO Comedy West	Galaxy 1 Tr 18(Q)	309
					1375	16	16	31	HBO Zone West	Galaxy 1 Tr 18(Q)	311
					1376	34	34	30	Thriller Max West	Galaxy 1 Tr 18(Q)	325
4B	QAM8	645 / 543 MHz	94 / 77	256	1202	1	1	9	Encore Action	Galaxy 1 Tr 3	202
GBIG 3	13	reserve 20 sessions			1203	3	3	10	Encore Love	Galaxy 1 Tr 3	203
	Rmux addr	172.16.4.247			1204	5	5	11	Encore Mystery	Galaxy 1 Tr 3	204
					1205	9	9	12	Encore Westerns	Galaxy 1 Tr 3	205
					1207	7	7	13	Encore True	Galaxy 1 Tr 3	206
					1947	13	13	8	iNDemand Barker	Telstar 7 Tr 4	400
					2931	1	10	1	iNDemand 31	Telstar 7 Tr 4	431
					2932	2	2	2	iNDemand 32	Telstar 7 Tr 4	432
					2933	3	11	3	iNDemand 33	Telstar 7 Tr 4	433
					2934	4	4	4	iNDemand 34	Telstar 7 Tr 4	434
					1999	6	12	6	Spice	Telstar 7 Tr 4	492
					1998	7	6	5	Spice 2	Telstar 7 Tr 4	493
					2494	8	8	7	Pleasure	Telstar 7 Tr 4	494
5A	QAM9	657 / 561 MHz	101 / 80	256	2923	1	1	21	iNDemand 23	Telstar 7 Tr 3	423
GBIG 3	12	reserve 20 sessions			2924	2	2	22	iNDemand 24	Telstar 7 Tr 3	424
	Rmux addr	172.16.4.250			2925	3	3	23	iNDemand 25	Telstar 7 Tr 3	425
					2926	4	4	24	iNDemand 26	Telstar 7 Tr 3	426
					2927	5	5	25	iNDemand 27	Telstar 7 Tr 3	427
					2928	6	6	26	iNDemand 28	Telstar 7 Tr 3	428
					2929	7	7	27	iNDemand 29	Telstar 7 Tr 3	429
					2930	8	8	28	iNDemand 30	Telstar 7 Tr 3	430
					1104	48	48	31	Speed Channel	Athena 2	103
					1131	46	46	30	Court TV	Athena 2	131
					5061	43	43	29	IFC	Athena 2	209
					1997	49	49	32	Playboy	Athena 2	491
ASI N/A	QAM10	663 / 555 MHz	102 / 79	256	1117	114	114	50	ESPN News	Athena 3	107
GBIG 3	11	reserve 20 sessions			1183	59	59	47	TRIO	Athena 3	152
					1185	60	60	48	Newsworld Int	Athena 3	134
					2106	54	54	43	FOX Sports World	Athena 3	106
					1180	115	115	51	CSPAN-3	Athena 3	133
					1141	56	56	44	Bet on Jazz	Athena 3	145
					1150	57	57	45	Ovation	Athena 3	150
					1162	58	58	46	Game Show Network	Athena 3	162
					1350	52	52	41	Disney E	Athena 3	170
					1351	53	53	42	Disney W	Athena 3	171
					1116	113	113	49	Toon Disney	Athena 3	172

7B	QAM11	669 / 549 MHz	103 / 78	256	1120	2	2	24	Discovery Kids	***	Satcom C3 Tr 22	120
GBIG 4	10-Video	reserve 127 sessions			1121	3	3	25	Discovery Science	***	Satcom C3 Tr 22	121
	45-Audio				2132	1	1	53	Discovery Health	***	Satcom C3 Tr 22	123
	Rmux add	172.16.4.223			1122	7	4	51	Discovery Wings	***	Satcom C3 Tr 22	122
					1213	5	55	55	Discovery Civilizations	***	Satcom C3 Tr 22	124
					1212	4	54	54	Discovery Home & L.	***	Satcom C3 Tr 22	125
					1124	6	50	52	BBC America	***	Satcom C3 Tr 22	129
					1110	4	52	2	TCM	***	Galaxy 1R Tr 15	110
					1105	2	51	1	CNN-SI	***	Galaxy 1R Tr 15	104
					1133	1	53	3	CNN-FN	***	Galaxy 1R Tr 15	132
					1500	5		43	Showcase		Satcom C3 Tr 9	500
					1501	6		42	Showcase 2		Satcom C3 Tr 9	501
					1502	7		49	Origens		Satcom C3 Tr 9	502
					1503	8		41	New Releases		Satcom C3 Tr 9	503
					1504	9		40	American Originals		Satcom C3 Tr 9	504
					1505	10		39	Sounds of Seasons		Satcom C3 Tr 9	505
					1506	11		38	For Kids Only		Satcom C3 Tr 9	506
					1507	12		50	World Beat		Satcom C3 Tr 9	507
					1508	13		33	Body & Soul		Satcom C3 Tr 9	508
					1509	14		32	Classic R&B		Satcom C3 Tr 9	509
					1510	15		29	R&B Hits		Satcom C3 Tr 9	510
					1511	16		26	Dance		Satcom C3 Tr 9	511
					1512	17		23	Rap		Satcom C3 Tr 9	512
					1513	18		17	Metal		Satcom C3 Tr 9	513
					1514	19		15	Alternative Rock		Satcom C3 Tr 9	514
					1515	20		14	Progressive		Satcom C3 Tr 9	515
					1516	21		36	Classic Rock		Satcom C3 Tr 9	516
					1517	22		35	Rock Hits		Satcom C3 Tr 9	517
					1518	23		34	Soft Rock		Satcom C3 Tr 9	518
					1519	24		30	Hit List		Satcom C3 Tr 9	519
					1520	25		18	80's		Satcom C3 Tr 9	520
					1521	26		9	70's		Satcom C3 Tr 9	521
					1522	27		10	Solid Gold Oldies		Satcom C3 Tr 9	522
					1523	28		11	Today's Country		Satcom C3 Tr 9	523
					1524	29		12	Classic Country		Satcom C3 Tr 9	524
					1525	30		13	Big Band		Satcom C3 Tr 9	525
					1526	31		47	Singers & Standards		Satcom C3 Tr 9	526
					1527	32		48	Easy Listening		Satcom C3 Tr 9	527
					1528	33		16	Classical Masterpiece		Satcom C3 Tr 9	528
					1529	34		22	Light Classical		Satcom C3 Tr 9	529
					1530	35		45	Atmospheres		Satcom C3 Tr 9	530
					1531	36		46	Light Jazz		Satcom C3 Tr 9	531
					1532	37		28	Jazz		Satcom C3 Tr 9	532
					1533	38		27	Blues		Satcom C3 Tr 9	533
					1534	39		31	Gospel		Satcom C3 Tr 9	534
					1535	40		19	Contemp. Christian		Satcom C3 Tr 9	535
					1536	41		20	Music Latina		Satcom C3 Tr 9	536
					1537	42		21	Tropical		Satcom C3 Tr 9	537
					1538	43		37	Mexicana		Satcom C3 Tr 9	538
					1539	44		44	Tejano		Satcom C3 Tr 9	539
					1540	45		4	Folklorica		Satcom C3 Tr 9	540
					1541	46		5	Boleros		Satcom C3 Tr 9	541
					1542	47		6	Int. Love Songs		Satcom C3 Tr 9	542
					1543	48		7	Brazilian Pop		Satcom C3 Tr 9	543
					1544	49		8	Brazilian Beat		Satcom C3 Tr 9	544
2A	QAM12	675 / 519 MHz	104 / 73	256	1341	7	7	51	TMCX		Satcom C3 Tr 19	351
GBIG 1	13	reserve 20 sessions			1340	4	4	49	TMC		Satcom C3 Tr 19	350
	Rmux add	172.16.4.251			1352	8	8	52	Showtime Beyond		Satcom C3 Tr 19	344
					1323	9	9	53	Showtime Extreme		Satcom C3 Tr 19	343
					1322	3	3	48	Showtime 3		Satcom C3 Tr 19	342
					1321	2	2	47	Showtime Too		Satcom C3 Tr 19	341
					1320	1	1	46	Showtime East		Satcom C3 Tr 19	340
					1324	5	5	50	FLIX		Satcom C3 Tr 19	18 W'twn
					1114	108	108	43	Lifetime Movie Ntwk		Athena 2	112
					1160	107	107	42	Style		Athena 2	160
					1190	50	50	45	MuchMusic		Athena 2	143
					1181	109	109	44	Bloomberg		Athena 2	135
					1112	45	45	41	FXM		Athena 2	208

4A	QAM13	711 / n/a MHz	110	256	1600	1	1	41	NBA / WNBA CH.	GE 1 Tr 8	460
	14				1601	2	12	42	NBA / WNBA PPV 1	GE 1 Tr 8	461
	Rmux add	172.16.4.219			1602	3	13	43	NBA / WNBA PPV 2	GE 1 Tr 8	462
					1603	4	14	44	NBA / WNBA PPV 3	GE 1 Tr 8	463
					1604	5	15	45	NBA / WNBA PPV 4	GE 1 Tr 8	464
					1605	6	16	46	NBA / WNBA PPV 5	GE 1 Tr 8	465
					1471	2	2	49	ESPN sports pkg 1	G7 (G11) Tr 6 Hits Feed (KU)	472
					1472	3	3	51	ESPN sports pkg 2	G7 (G11) Tr 6 Hits Feed (KU)	473
					1473	4	4	52	ESPN sports pkg 3	G7 (G11) Tr 6 Hits Feed (KU)	474
					1474	5	5	53	ESPN sports pkg 4	G7 (G11) Tr 6 Hits Feed (KU)	475
					1475	6	6	54	ESPN sports pkg 5	G7 (G11) Tr 6 Hits Feed (KU)	476
					1476	7	7	47	ESPN sports pkg 6	G7 (G11) Tr 6 Hits Feed (KU)	477
					1477	8	8	48	ESPN sports pkg 7	G7 (G11) Tr 6 Hits Feed (KU)	478
					1478	10	10	50	ESPN sports pkg 8	G7 (G11) Tr 6 Hits Feed (KU)	479
5B	QAM14	717 / 679 MHz	111 / 83	256	9001	1	1	61	NHL / MLB 1	GE 1 Tr 13	480
GBIG 4	14				9002	2	2	62	NHL / MLB 2	GE 1 Tr 13	481
	Rmux add	172.16.4.253			9003	3	3	63	NHL / MLB 3	GE 1 Tr 13	482
					9004	4	4	64	NHL / MLB 4	GE 1 Tr 13	483
					9005	5	5	65	NHL / MLB 5	GE 1 Tr 13	484
					9006	6	6	66	NHL / MLB 6	GE 1 Tr 13	485
					9007	7	7	67	NHL / MLB 7	GE 1 Tr 13	486
					9008	8	8	68	NHL / MLB 8	GE 1 Tr 13	487
	Not available in the North Country				1606	1	9	69	NBA / WNBA PPV 6	GE 1 Tr 14	466
	Not available in the North Country				1607	2	10	70	NBA / WNBA PPV 7	GE 1 Tr 14	467
	Not available in the North Country				1608	3	11	71	NBA / WNBA PPV 8	GE 1 Tr 14	468
	Not available in the North Country				1609	4	12	72	NBA / WNBA PPV 9	GE 1 Tr 14	469
	Not available in the North Country				1610	5	13	73	NBA / WNBA PPV 10	GE 1 Tr 14	470
	Not available in the North Country				1611	6	14	74	NBA / WNBA PPV 11	GE 1 Tr 14	471
6A	QAM15	735 / 489 MHz	114 / 68	256	1359	6	6	4	Starz!2 West	Satcom C4 Tr 5	363
GBIG 5	1-HDTV, 3 std				1361	7	7	6	Starz!4 Family West	Satcom C4 Tr 5	365
	Rmux add	172.16.4.249			1360	8	8	5	Bet Movies West	Satcom C4 Tr 5	369
	HD not in North Country				1306	51	51	N/A	HBO East HDTV	Telstar 7 Tr 17	391
6A	QAM16	741 / 489 MHz	115 / 68	256	1353	1	1	1	Showtime Next	Satcom C3 Tr 16	345
GBIG 5	1-HDTV, 3 std	reserve 6 sessions			1355	3	3	3	Showtime Women	Satcom C3 Tr 16	346
	Rmux add	n/a			1354	2	2	2	Showtime Family	Satcom C3 Tr 16	347
	HD not in North Country				1356	8	8	N/A	Showtime HDTV	Satcom C3 Tr 16	392
7A	QAM17	633 / 501 MHz	92 / 70	256	1208	4	1	41	VH1 Classic	Satcom C3 Tr 15	144
GBIG 5	9				1209	8	2	42	Nick GAS	Satcom C3 Tr 15	175
	Rmux add	172.16.4.252			1210	10	3	43	Nick Too	Satcom C3 Tr 15	174
					1211	1	4	44	International Channel	Galaxy 11 Tr 24	139
					1214	5	8	47	Boomerang	Galaxy 1R Tr 15	176
					1215	70	10	49	Do-It-Yourself	Telstar 7 Tr 14	138
					1216	60	9	48	Tech TV	Telstar 7 Tr 14	137
					1218	8	5	45	Great Amer. Country	Satcom C3 Tr 20	141
					1217	1	7	46	Trinity Broadcasting	Galaxy 5 Tr 3 – RTE	190
	QAM18	747 / NA MHz	116	256	3103	1	4	N/A	MC Concerts – RTE	Satcom C4 Tr 5	254
	1										

* 33 foot limitation for SWIF connections

** Rate Mux feed not required if DHEI splitter used. Rate Mux channel could be used for expansion such as Showtime/TMC west coast feeds.

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME: TIME WARNER CABLE ROME/ONEIDA **DATE:** JULY 2,2002

NON-VIDEO SERVICES

CARRIER FREQ	DESCRIPTION	BANDWIDTH	PROG SOURCE
53.0000	DATA	1MHz	SST
106.2000	DATA	1MHz	ATX
108.2000	DATA	1MHz	ATX
111.0000	DIGITAL	1MHz	MOD.
573.0000	DATA	6MHz	DOCSIS
579.0000	DATA	6MHz	MOTOROLA
105.0000	SWEEP	1MHz	3010H

TIME WARNER CABLE
SYRACUSE DIVISION

Proof - of - Performance Test

System Name: TIME WARNER CABLE ROME/ONEIDA

Statement of Qualifications

Employee Name:	MARK A. D'AOUST	Title:	FIELD ENGINEER
System:	TIME WARNER EAST REGION		
Qualifications:	NCTI SERVICE TECH		
	18 YEARS CATV EXPERIENCE		
	TIME WARNER /SYRACUSE DIVISION		
	FCC SCHOOL 1996/1998		

Employee Name:	JOEL P. MARMON	Title:	HEADEND TECH.
System:	TIME WARNER EAST REGION		
Qualifications:	NCTI FIBER OPTICS		
	NCTI TESTS AND MEASUREMENTS		
	NCTI ADVANCED/SYSTEM TECH.		
	15YEARS CATV EXPERIENCE		

Employee Name:	DAVID FIORENZA	Title:	SERVICE TECH
System:	TIME WARNER EAST REGION		
Qualifications:	6 YEARS CATV EXPERIENCE		
	NCTI INSTALLER/SERVICE TECH		
	NCTI ADVANCED/SYSTEM TECH		
	NCTI DIGITAL/FIBER TECH		

TIME WARNER CABLE
SYRACUSE DIVISION

CATV **Proof - of - Performance Tests** **Test Equipment Listings**

System Name: ROME/ONEIDA

Date: JULY 2, 2002

Test Equipment				
Equipment Description	Model #	Manufacturer	Serial #	Last Calib
SPECTRUM ANALYZER	8591C	H-P	3829A02865	11/01
NTSC TV GENERATOR	TSG-120	TEKTRONIX	B031159	N/A
TUNABLE BANDPASS FILT.	55/880	TRILITHIC	9909070	N/A
20 DB AMPLIFIER	AM1000	TRILITHIC	9910147	N/A
SIGNAL LEVEL METER	3010	CALAN/HP	US37241488	1/00
SIGNAL LEVEL METER	3010R	CALAN/HP	US40306138	1/01

TIME WARNER CABLE
SYRACUSE DIVISION

Terminal Isolation Test

System Name: TIME WARNER CABLE ROME/ONEIDA

Date: JULY 2, 2002

The terminal isolation provided to each subscriber terminal shall not be less than 18 decibels. In lieu of periodic testing, the cable operator may use specifications provided by the manufacturer for the terminal isolation equipment to meet this standard.

Instructions:

Attach a copy of the manufacturer's specifications covering all directional taps used in the system. The specification sheet must show the minimum tap-to-tap isolation. In lieu of a specification sheet, attach a letter from the manufacturer(s) certifying that the directional taps used in the system do exhibit a minimum tap-to-tap isolation of 18dB.

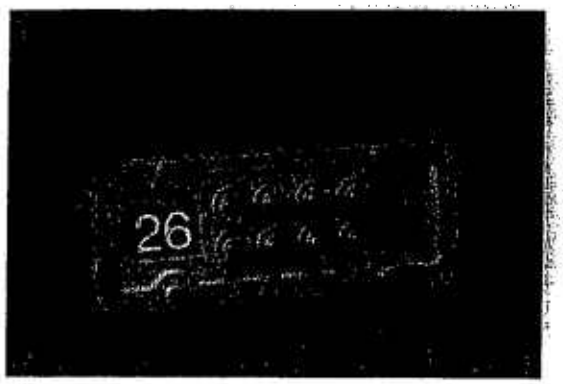
Taps and Passives

Scientific Atlanta

Multimedia Stretch™ Taps

Description

Scientific-Atlanta's Multimedia Stretch™ Tap is designed to support the delivery of advanced applications and services in a cost-effective platform. In addition to providing high quality RF performance specifications that are essential to the reliable transmission of data and digital video services, the Multimedia Stretch Tap includes the capability to house other performance-enhancing options. As an example, we have developed and field-tested a version of the plug-in directional coupler that cost-effectively balances reverse path signals resulting in a marked performance improvement in this challenging portion of your networks. Recently completed is an addressable version of the Multimedia Stretch Tap faceplate that introduces significant operating cost savings and new revenue-generating opportunities.



During the system upgrades, operators are challenged to quickly install new equipment while minimizing the impact on customers. Splicing taps is a time-consuming process complicated by a widened gap in the feeder cabling. Scientific-Atlanta's Multimedia Stretch Tap features a nine-inch housing that fills this gap—without using costly or performance reducing extension connectors—providing operators with the fastest way to restore service and complete upgrade efforts.

Features

- Patent-pending Connection-Beam AC/RF bypass switch, providing interruption-free service to downstream customers during faceplate removal
- Faceplate-confined circuitry isolates and simplifies maintenance efforts
- Per-port power activation and protection, maximizing cost and customer service effectiveness
- Nine-inch housing, simplifying system upgrades
- Faceplate reversibility, eliminating costly re-splicing
- Plug-in directional coupler, enabling field modification without costly resplicing
- Available in 2-,4-, and 8-way versions
- Compatible with aerial or pedestal mounting
- Available space for future enhancements
- Durable powder paint coating for superior environmental protection

Multimedia Stretch Tap

The Multimedia Stretch Tap also provides an important level of network flexibility by enabling reversibility. As operators expand the fiber optic portion of their broadband networks, the result is often a reversal of the feeder signal flow. By simply changing the orientation of the plug-in directional coupler module, technicians can avoid time consuming and expensive resplicing of the cable.

The plug-in directional coupler module further adds to the flexibility of the tap, and helps to control inventory expense. By removing and replacing the on-board device, operators are able to modify tap values—again without costly resplicing.

Most importantly, Scientific-Atlanta's Multimedia Stretch Tap is designed for the future. Our engineers have maximized available space in the device to allow for adding future advanced features.

Specifications

Dimensions

2-, 4-, 8-way 3.5 in. H x 9 in. W x 3.5 in. D
88.9 mm H x 228.6 m W x 88.9 mm D

Mechanical

- AL360T housing with powder paint coating and aluminum end plugs for environmental protection
- Sealed and swaged extended F-ports for enhanced resistance to moisture ingress
- Nickel-plated brass F-ports to ensure a corrosion-resistant drop interface
- Versatile housing design permits aerial, pedestal, or MDU mounting schemes
- Operating temperature from –40°C to +60°C
- EMI shielding minimum 100 dB
- Pressure tested at 10 psi for 60 seconds under water.

Electrical Specifications

- Thru Continuous current — 12 amps – 60/90 V AC
- Current limiting — 250 mA @ 60°C, per drop
- Surge Resistance — 1 kV
- Impedance — 75 ohm
- Thru Hum Modulation — 70 dB average @ 10 Amps
  65 dB average @ 12 Amps
- Tap Port Hum Modulation — 65 dB average

Standards Compliance

Scientific-Atlanta's Multimedia Stretch Taps meet or exceed the following industry standards:

Mechanical

- SCTE IPS-SP-400 – F-port interface specification
- SCTE IPS-SP-420 - entry port interface specification

Emissions

- FCC – Part 76, Subpart K
- EN 50083-2

Environmental

- ASTM G 53 - weathering specification
- ASTM B 117 - salt spray specification
- ASTM D 3170 - chip resistance specification
- ASTM G 21 - fungus growth rate of zero
- EN 50083-1

Specifications and product availability are subject to change.

AC/RF Bypass Switch Performance

System Open Circuit Time	0 ms
Contact Resistance	10 mOhms max
Current and voltage Carrying	12 A, 60/90 V AC
RF Frequency Range	5 to 1000 MHz
Operating Temperature	-40° C to +60°C

	5 MHz	550 MHz	750 MHz	1 GHz
Short Circuited Insertion Loss (dB)	0.1 Max 0.05 Mean	0.4 Max 0.3 Mean	0.5 Max 0.4 Mean	0.7 Max 0.6 Mean
Short Circuited Return Loss (dB)	40 Max 53 Mean	16 Max 18 Mean	16 Max 17 Mean	14 Max 15 Mean

Multimedia Stretch Tap

2-Way

	Freq.	Tap Value								
		4 dB	8 dB	11 dB	14 dB	17 dB	20 dB	23 dB	26 dB	29 dB
	MHz	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
Insertion Loss (dB)	5	-	3.45	1.91	1.16	0.85	0.76	0.76	0.76	0.76
	40	-	3.18	1.47	0.87	0.60	0.49	0.50	0.50	0.50
	50	-	3.20	1.47	0.87	0.61	0.49	0.49	0.49	0.49
	450	-	4.13	2.29	1.64	1.39	1.19	1.22	1.22	1.22
	550	-	4.00	2.36	1.73	1.49	1.26	1.30	1.30	1.30
	750	-	3.69	2.40	1.82	1.60	1.34	1.38	1.38	1.38
	870	-	3.97	2.55	1.97	1.78	1.43	1.46	1.46	1.46
	1000	-	4.67	2.86	1.99	1.78	1.36	1.35	1.35	1.35
Tap Loss (dB) (Max tolerance ±1 dB)	5	4.98	7.76	11.39	13.79	16.68	19.87	22.71	25.87	29.27
	40	4.31	7.40	11.45	13.84	16.48	19.89	22.60	25.65	28.92
	50	4.10	7.40	11.44	13.82	16.43	19.86	22.58	25.64	28.90
	450	4.79	7.95	11.31	13.66	16.74	19.51	22.16	25.27	28.29
	550	4.44	8.10	11.24	13.63	16.84	19.31	22.06	25.29	28.20
	750	4.55	8.40	11.50	13.66	16.94	19.51	22.50	26.01	28.74
	870	4.87	8.48	11.69	13.92	17.21	19.87	22.90	26.55	29.23
	1000	4.97	8.56	11.17	13.67	16.39	19.56	22.65	26.37	28.96
Return Loss (dB, min)	5	15	14	12	13	14	14	14	14	14
	10	14	15	15	15	15	15	15	15	15
	50	15	15	15	15	15	15	15	15	15
	750	15	15	15	15	15	15	15	15	15
	870	15	15	15	15	15	15	15	15	15
	1000	15	14	14	14	15	15	15	15	15
Tap-to-Tap Isolation (dB,min)	5	18	18	18	18	18	18	18	18	18
	750	18	18	18	18	18	18	18	18	18
	1000	18	18	18	18	18	18	18	18	18
Out-to-Tap Isolation	5	-	18	20	20	22	25	25	35	35
	750	-	18	20	22	22	25	25	35	35
	1000	-	18	20	22	22	25	25	35	35

The Multimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. Part numbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST2-4	562732	Multimedia Stretch Tap 2-Way 4 dB
	SAT ST2-8	562733	Multimedia Stretch Tap 2-Way 8 dB
	SAT ST2-11	562734	Multimedia Stretch Tap 2-Way 11 dB
	SAT ST2-14	562735	Multimedia Stretch Tap 2-Way 14 dB
	SAT ST2-17	562736	Multimedia Stretch Tap 2-Way 17 dB
	SAT ST2-20	562737	Multimedia Stretch Tap 2-Way 20 dB
	SAT ST2-23	562738	Multimedia Stretch Tap 2-Way 23 dB
	SAT ST2-26	562739	Multimedia Stretch Tap 2-Way 26 dB
	SAT ST2-29	562740	Multimedia Stretch Tap 2-Way 29 dB
Faceplate Assembly	SAT STF-2	563542	Multimedia Stretch Tap 2-Way Faceplate Assembly
Directional Coupler Module	SAT STM2-0	543487	Multimedia Stretch Tap Module 0 dB
	SAT STM2-4	562108	Multimedia Stretch Tap Module 4 dB
	SAT STM2-7	562109	Multimedia Stretch Tap Module 7 dB
	SAT STM2-10	562110	Multimedia Stretch Tap Module 10 dB
	SAT STM2-13	562111	Multimedia Stretch Tap Module 13 dB
	SAT STM2-16	562112	Multimedia Stretch Tap Module 16 dB
	SAT STM2-19	562113	Multimedia Stretch Tap Module 19 dB
	SAT STM2-22	562114	Multimedia Stretch Tap Module 22 dB
	SAT STM2-25	562115	Multimedia Stretch Tap Module 25 dB

Multimedia Stretch Tap
4-Way

	Freq.	Tap Value													
		8 dB		11 dB		14 dB		17 dB		20 dB		23 dB		26 dB		29 dB	
	MHz	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max
Insertion Loss	5	-	-	3.45	3.6	1.91	2.2	1.16	1.5	0.85	1.2	0.76	1.1	0.76	1.1	0.76	1.1
(dB)	40	-	-	3.18	3.5	1.47	1.7	0.87	1.2	0.60	1.0	0.49	1.0	0.50	1.0	0.50	1.0
	50	-	-	3.20	3.5	1.47	1.7	0.87	1.2	0.61	1.0	0.49	1.0	0.49	1.0	0.49	1.0
	450	-	-	4.13	4.5	2.29	2.7	1.64	1.9	1.39	1.6	1.19	1.5	1.22	1.5	1.22	1.5
	550	-	-	4.00	4.2	2.36	2.8	1.73	2.0	1.49	1.8	1.26	1.6	1.30	1.6	1.30	1.6
	750	-	-	3.69	4.1	2.40	3.0	1.82	2.2	1.60	1.9	1.34	1.8	1.38	1.8	1.38	1.8
	870	-	-	3.97	4.4	2.55	3.3	1.97	2.3	1.78	2.0	1.43	1.9	1.46	1.9	1.46	1.9
	1000	-	-	4.67	5.1	2.86	3.4	1.99	2.4	1.78	2.2	1.36	1.9	1.35	1.9	1.35	1.9
Tap Loss	5	8.15	8.9	10.86	11.9	14.18	15.0	16.67	17.5	19.95	21.0	22.89	23.5	25.70	26.5	28.70	29.5
(dB)	40	7.58	9.0	10.58	12.0	14.57	16.0	17.03	18.0	19.67	21.0	23.05	23.5	25.82	26.5	28.81	29.5
(Max tolerance	50	7.38	9.0	10.58	12.0	14.55	16.0	17.02	18.0	19.63	21.0	23.03	23.5	25.80	26.5	28.80	29.5
±1 dB)	450	7.86	9.0	11.11	12.0	14.51	15.5	16.75	17.5	20.00	21.0	22.77	23.5	25.57	26.5	28.62	29.5
	550	7.56	9.0	11.38	12.0	14.43	16.0	16.72	18.0	20.27	21.0	22.59	23.5	25.52	26.5	28.61	29.5
	750	7.74	9.0	11.72	12.5	14.80	16.0	16.76	18.0	20.24	21.0	22.85	23.5	25.67	26.5	29.12	29.5
	870	8.12	9.5	12.27	13.0	15.04	16.5	17.15	18.5	20.69	21.0	23.37	24.0	26.21	27.0	29.66	30.0
	1000	8.73	9.5	12.44	13.5	15.18	16.5	17.11	18.5	20.50	21.0	23.60	24.0	26.31	27.0	30.04	30.5
Return Loss	5	14		14		12		14		14		14		14		14	
(dB, min)	10	14		15		14		15		15		15		15		15	
	50	15		15		15		15		15		15		15		15	
	750	14		15		15		15		15		15		15		15	
	870	15		15		15		15		15		15		15		15	
	1000	15		14		15		14		14		14		15		14	
Tap-to-Tap	5	18		18		18		18		18		18		18		18	
Isolation	750	18		18		18		18		18		18		18		18	
(dB,min)	1000	18		18		18		18		18		18		18		18	
Out-to-Tap Isolation	5	-		18		20		22		25		25		35		35	
	750	-		18		20		22		25		25		35		35	
	1000	-		18		20		22		25		25		35		35	

The Multimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. Part numbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST4-8	562742	Multimedia Stretch Tap 4-Way 8 dB
	SAT ST4-11	562743	Multimedia Stretch Tap 4-Way 11 dB
	SAT ST4-14	562744	Multimedia Stretch Tap 4-Way 14 dB
	SAT ST4-17	562745	Multimedia Stretch Tap 4-Way 17 dB
	SAT ST4-20	562746	Multimedia Stretch Tap 4-Way 20 dB
	SAT ST4-23	562747	Multimedia Stretch Tap 4-Way 23 dB
	SAT ST4-26	562748	Multimedia Stretch Tap 4-Way 26 dB
	SAT ST4-29	562749	Multimedia Stretch Tap 4-Way 29 dB
Faceplate Assembly	SAT STF-4	563543	Multimedia Stretch Tap 4-Way Faceplate Assembly
Directional Coupler Module	SAT STM-0	543487	Multimedia Stretch Tap Module 0 dB
	SAT STM-4	562108	Multimedia Stretch Tap Module 4 dB
	SAT STM-7	562109	Multimedia Stretch Tap Module 7 dB
	SAT STM-10	562110	Multimedia Stretch Tap Module 10 dB
	SAT STM-13	562111	Multimedia Stretch Tap Module 13 dB
	SAT STM-16	562112	Multimedia Stretch Tap Module 16 dB
	SAT STM-19	562113	Multimedia Stretch Tap Module 19 dB
	SAT STM-22	562114	Multimedia Stretch Tap Module 22 dB
	SAT STM-25	562115	Multimedia Stretch Tap Module 25 dB

Multimedia Stretch Tap
8-Way

	Freq.	Tap Value											
		11 dB		14 dB		17 dB		20 dB		23 dB		26 dB		29dB	
	MHz	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max
Insertion Loss	5	-		3.45	3.6	1.91	2.2	1.16	1.5	0.85	1.2	0.76	1.1	0.76	1.1
(dB)	40	-		3.18	3.5	1.47	1.7	0.87	1.2	0.60	1.0	0.49	0.9	0.50	1.0
	50	-		3.20	3.5	1.47	1.7	0.87	1.2	0.61	1.0	0.49	0.9	0.49	1.0
	450	-		4.13	4.5	2.29	2.6	1.64	1.9	1.39	1.6	1.19	1.5	1.22	1.6
	550	-		4.00	4.2	2.36	2.8	1.73	2.0	1.49	1.7	1.26	1.6	1.30	1.6
	750	-		3.69	3.9	2.40	2.9	1.82	2.2	1.60	1.9	1.34	1.7	1.38	1.8
	870	-		3.97	4.2	2.55	3.1	1.97	2.4	1.78	2.1	1.43	1.8	1.46	1.9
	1000	-		4.67	5.1	2.86	3.4	1.99	2.4	1.78	2.2	1.36	1.8	1.35	1.9
Tap Loss	5	11.34	12.0	14.50	15.0	17.71	19.0	20.21	21.0	23.43	24.0	26.13	27.0	28.93	30.5
(dB)	40	10.84	12.0	13.91	15.0	17.82	19.0	20.34	21.0	22.79	24.0	26.16	27.0	29.07	30.5
(Max tolerance	50	10.62	12.0	13.90	15.0	17.79	19.0	20.31	21.0	22.80	24.0	26.20	27.0	29.06	30.5
±1 dB)	450	11.07	12.0	14.56	15.0	17.77	19.0	20.16	21.0	23.28	24.0	25.95	27.0	28.87	30.5
	550	11.17	12.0	14.85	15.0	17.95	19.0	20.24	21.0	23.53	24.0	25.96	27.0	28.84	30.5
	750	11.33	12.0	15.55	16.5	18.52	19.0	20.44	21.0	23.94	24.0	26.28	27.0	29.25	30.5
	870	11.87	13.0	16.18	17.0	18.96	20.0	20.92	22.0	24.53	25.0	26.78	28.0	30.08	31.0
	1000	12.35	13.5	16.34	17.5	19.05	20.0	21.08	22.0	24.48	25.0	27.06	28.0	30.48	31.5
Return Loss	5	14		14		12		14		14		14		14	
(dB, min)	10	14		15		15		15		15		15		15	
	50	15		15		15		15		15		15		15	
	750	14		15		15		15		15		15		15	
	870	15		15		14		15		15		15		15	
	1000	15		14		14		14		14		14		14	
Tap-to-Tap	5	18		18		18		18		18		18		18	
Isolation	750	18		18		18		18		18		18		18	
(dB,min)	1000	18		18		18		18		18		18		18	
Out-to-Tap Isolation	5	-		20		22		25		25		35		35	
	750	-		20		22		25		25		35		35	
	1000	-		20		22		25		25		35		35	

The Multimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. Part numbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST8-11	562751	Multimedia Stretch Tap 8-Way 11 dB
	SAT ST8-14	562752	Multimedia Stretch Tap 8-Way 14 dB
	SAT ST8-17	562753	Multimedia Stretch Tap 8-Way 17 dB
	SAT ST8-20	562754	Multimedia Stretch Tap 8-Way 20 dB
	SAT ST8-23	562755	Multimedia Stretch Tap 8-Way 23 dB
	SAT ST8-26	562756	Multimedia Stretch Tap 8-Way 26 dB
	SAT ST8-29	562757	Multimedia Stretch Tap 8-Way 29 dB
Faceplate Assembly	SAT STF-8	563544	Multimedia Stretch Tap 8-Way Faceplate Assembly
Directional coupler Module	SAT STM-0	543487	Multimedia Stretch Tap Module 0 dB
	SAT STM-4	562108	Multimedia Stretch Tap Module 4 dB
	SAT STM-7	562109	Multimedia Stretch Tap Module 7 dB
	SAT STM-10	562110	Multimedia Stretch Tap Module 10 dB
	SAT STM-13	562111	Multimedia Stretch Tap Module 13 dB
	SAT STM-16	562112	Multimedia Stretch Tap Module 16 dB
	SAT STM-19	562113	Multimedia Stretch Tap Module 19 dB
	SAT STM-22	562114	Multimedia Stretch Tap Module 22 dB
	SAT STM-25	562115	Multimedia Stretch Tap Module 25 dB

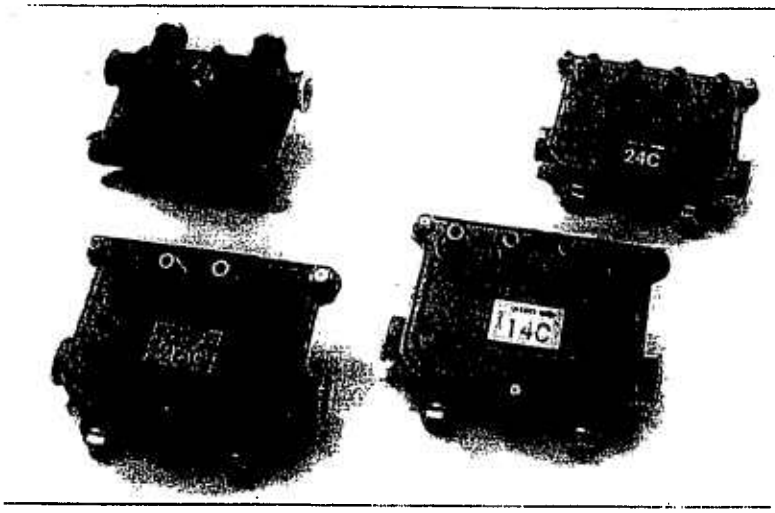
Other Stretch Tap Accessories

- DC/EQ Plug-in modules
- Addressable Multimedia Stretch Taps
- Multimedia Stretch Taps with Technician Access

Scientific-Atlanta, Inc.
1-800-722-2009 or 770-903-6900
www.sciatl.com

Part Number 571710 Rev D
December 1999

Conventional Multi-Taps



9000-C Series

The 9000-C series 1 GHz conventional multi-tap taps off part of its input RF signal but allows the rest of that signal to pass through. It divides the tapped-off signal into multiple outputs.

- Optional continuous AC and RF power passing circuits eliminate downstream service interruptions when face plates are removed.
- 90° rotating seizure mechanism makes installation easy.
- F-port capacitors eliminate hum modulation that can originate at the subscriber home.
- Environmental coating provides excellent corrosion resistance.
- Dual gaskets keep RF signals pure and protect the circuitry from extreme environments.

A multi-tap is a combination of a directional coupler and splitters arranged to produce a specific value or signal loss, from the multi-tap's input to its tap ports.

Philips' 9000-C series 1 GHz multi-taps are available in two - way, four-way, and eight-way models, offering two, four, and eight tap ports respectively. We've created a compact tap which fits easily into a 6-inch pedestal.

Our 9000-C series multi-taps all share these standard features:

- 1 GHz bandwidth capacity,
- brass SCTE F-ports with drip lips and rubber boots,
- RFI and weather gaskets,
- network power capacity of 90 VAC, 0 to 60 Hz,
- strip gauges and heat-shrink ridges for easy installation,
- numbered ports for easier subscriber audits,
- 2.5 KV surge resistance meets ANSI/IEEE C62.41-1991 Class B, 2500 V surge and 12-amp current handling capability,
- interchangeable face plates, and
- face plates fit in 8000 series housings for easy upgrade to 1 GHz.

The aluminum die-cast housing is pressure tested to 10 psi and is coated with a protective finish, which provides excellent corrosion resistance. Rubber boots inside the brass SCTE F-ports help keep the 9000-C series multi-taps water-resistant. A single alloy at contact points eliminates the galvanic couple and corrosion that accompanies aluminum-to-brass connections. So, by connecting the brass SCTE F-port to a brass F-connector, you can eliminate a weak link in your network.

All F-ports have a capacitor that blocks hum modulation that can originate in the subscriber home. This capacitor also provides additional protection from transients traveling on subscriber drop cables.

Order the 9000T-PWR-FI power bypass assembly option to prevent interruptions in power and RF service when face plates are removed. Also, order the 9000-USB-PBT for easy aerial to underground interconnections.

Nominal Performance*

9200-C Two-Way Series

	9204	9208	9211	9214	9217	9220	9223	9226	9229	9232	Units
Tap Value	4.0	8.5	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	dB
Bandwidth					10-1000						MHz
Color Code	Black	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	
Insertion Loss (In/Out)											
10 MHz	—	2.8	1.3	1.0	0.9	0.7	0.3	0.3	0.3	0.3	dB
30 MHz	—	2.8	1.3	0.8	0.7	0.6	0.3	0.3	0.3	0.3	dB
54 MHz	—	2.8	1.3	0.7	0.7	0.6	0.3	0.3	0.3	0.3	dB
112 MHz	—	3.2	1.7	0.9	0.8	0.7	0.5	0.5	0.4	0.4	dB
150 MHz	—	3.2	1.7	0.9	0.8	0.7	0.5	0.5	0.4	0.4	dB
186 MHz	—	3.2	1.7	0.9	0.8	0.7	0.5	0.5	0.4	0.4	dB
222 MHz	—	3.3	1.7	0.9	0.9	0.8	0.5	0.5	0.5	0.5	dB
330 MHz	—	3.4	1.8	0.9	0.9	0.8	0.5	0.5	0.5	0.5	dB
400 MHz	—	3.4	1.9	1.0	0.9	0.8	0.6	0.6	0.5	0.5	dB
450 MHz	—	3.4	1.9	1.0	0.9	0.8	0.6	0.6	0.5	0.5	dB
550 MHz	—	3.5	1.9	1.0	0.9	0.8	0.6	0.6	0.5	0.6	dB
600 MHz	—	3.8	2.1	1.1	1.0	0.9	0.6	0.6	0.6	0.6	dB
750 MHz	—	4.3	2.5	1.2	1.2	1.0	0.8	0.8	0.7	0.8	dB
862 MHz	—	4.5	2.8	1.4	1.3	1.1	0.9	0.9	0.9	1.0	dB
1000 MHz	—	4.9	3.5	1.6	1.6	1.1	1.0	1.0	1.0	1.1	dB
Tap Loss											
10-19 MHz	3.4	7.7	10.8	13.7	15.7	18.4	21.2	24.4	27.1	30.5	dB
20-899 MHz	3.7	8.0	11.1	14.9	17.4	20.0	22.6	25.5	28.1	31.2	dB
900-1000 MHz	5.2	9.6	11.0	15.2	17.0	20.0	23.2	26.5	29.1	32.3	dB

*All specifications are subject to change without notice.

Conventional Multi-Taps

Worst Case Specifications* — 9200-C Two-Way Series

	9204	9208	9211	9214	9217	9220	9223	9226	9229	9232	Units
Tap Value	4.0	8.5	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	dB
Bandwidth					10-1000						MHz
Color Code	Black	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	
Tolerance											
10-19 MHz	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	± dB
20-899 MHz	1.5	2.0	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.8	± dB
900-1000 MHz	2.0	2.0	1.5	2.0	1.6	1.7	1.7	2.0	2.0	2.0	± dB
Insertion Loss (max.)											
10 MHz	—	3.6	1.9	1.0	1.0	0.8	0.5	0.5	0.4	0.4	dB
30 MHz	—	3.1	1.5	0.8	0.8	0.7	0.5	0.4	0.3	0.3	dB
54 MHz	—	3.3	1.5	0.8	0.8	0.7	0.4	0.4	0.3	0.3	dB
112 MHz	—	3.3	1.8	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
150 MHz	—	3.3	1.8	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
186 MHz	—	3.4	1.9	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
222 MHz	—	3.5	1.9	1.0	1.0	0.8	0.5	0.5	0.5	0.5	dB
330 MHz	—	3.6	2.0	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
400 MHz	—	3.7	2.1	1.1	1.0	0.9	0.7	0.7	0.6	0.6	dB
450 MHz	—	3.8	2.1	1.1	1.0	0.9	0.7	0.7	0.6	0.6	dB
550 MHz	—	3.9	2.1	1.2	1.1	0.9	0.7	0.7	0.7	0.7	dB
600 MHz	—	4.1	2.4	1.4	1.2	1.0	0.8	0.8	0.8	0.8	dB
750 MHz	—	4.7	3.0	1.6	1.4	1.2	1.0	1.0	0.9	0.9	dB
362 MHz	—	5.0	3.5	1.8	1.6	1.4	1.2	1.2	1.1	1.1	dB
1000 MHz	—	5.5	4.1	2.0	1.8	1.6	1.4	1.3	1.3	1.3	dB
Flatness (max.)											
10-1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
Tap-to-Out Isolation (min.)											
10-29 MHz	—	20	20	20	24	29	30	34	34	36	dB
30-749 MHz	—	22	24	26	30	33	36	38	40	42	dB
750-899 MHz	—	20	22	25	28	31	34	36	38	40	dB
900-1000 MHz	—	20	22	24	28	31	34	36	38	40	dB
Tap-to-Tap Isolation (min.)											
10-29 MHz	20	20	20	20	20	20	20	20	20	20	dB
30-449 MHz	25	25	25	25	25	25	25	25	25	25	dB
450-749 MHz	23	23	23	23	23	23	23	23	23	23	dB
750-1000 MHz	20	20	20	20	20	20	20	20	20	20	dB
Return Loss In (min.)											
10-29 MHz	17	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	17	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
Return Loss Out (min.)											
10-29 MHz	—	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	—	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	—	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	—	16	16	16	16	16	16	16	16	16	dB
Return Loss Tap (min.)											
10-29 MHz	16	16	16	16	16	16	16	16	16	16	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	18	dB
600-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
Hum Modulation @ 8 amps (max.)											
10-49 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
50-599 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	-70	dB
600-749 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
750-1000 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	-60	dB
RFI Isolation	Exceeds FCC requirements										
Current (max.)	0	12	12	12	12	12	12	12	12	12	amps
Voltage Passing Capacity (min.)											
0-60 MHz	90	90	90	90	90	90	90	90	90	90	VAC
Surge Rating	ANSI/IEEE C62.41-1991, Class B, 2500 Volts										

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PHILIPS

Nominal Performance*

9400-C Four-Way Series

	9408	9411	9414	9417	9420	9423	9426	9429	9432	9435	Units
Tap Value	8.0	11.5	14.5	17.0	20.0	23.0	26.0	29.0	32.0	35.0	dB
Bandwidth					10-1000						MHz
Color Code	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
Insertion Loss (In/Out)											
10 MHz	—	3.5	1.3	1.0	0.9	0.6	0.3	0.3	0.3	0.3	dB
30 MHz	—	3.4	1.3	0.7	0.7	0.6	0.3	0.3	0.3	0.3	dB
54 MHz	—	3.4	1.3	0.7	0.7	0.6	0.3	0.3	0.3	0.3	dB
112 MHz	—	3.8	1.7	0.9	0.8	0.7	0.5	0.5	0.5	0.5	dB
150 MHz	—	3.8	1.7	0.9	0.8	0.7	0.5	0.5	0.5	0.5	dB
186 MHz	—	3.9	1.8	0.9	0.9	0.7	0.5	0.5	0.5	0.5	dB
222 MHz	—	3.9	1.8	0.9	0.9	0.7	0.5	0.5	0.5	0.5	dB
330 MHz	—	4.0	1.8	0.9	0.9	0.7	0.5	0.5	0.5	0.5	dB
400 MHz	—	4.1	1.8	1.0	0.9	0.8	0.5	0.6	0.6	0.5	dB
450 MHz	—	4.1	1.8	1.0	0.9	0.8	0.5	0.6	0.6	0.5	dB
550 MHz	—	4.2	1.9	1.0	0.9	0.8	0.6	0.6	0.6	0.6	dB
600 MHz	—	4.4	2.1	1.1	0.9	0.8	0.6	0.6	0.7	0.6	dB
750 MHz	—	4.7	2.6	1.3	1.1	1.0	0.9	0.8	0.8	0.8	dB
862 MHz	—	4.8	3.0	1.6	1.3	1.1	1.1	1.0	1.0	1.0	dB
1000 MHz	—	4.9	3.6	1.8	1.3	1.1	1.1	1.0	1.0	1.0	dB
Tap Loss											
10-19 MHz	6.9	10.3	14.5	15.8	19.4	22.1	24.9	27.9	31.0	34.3	dB
20-899 MHz	7.2	10.7	14.7	17.6	21.0	23.6	26.3	29.2	32.2	35.3	dB
900-1000 MHz	8.2	12.8	15.0	18.2	20.7	23.2	26.0	29.1	32.0	35.2	dB

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Conventional Multi-Taps

Worst Case Specifications* — 9400-C Four-Way Series

	9408	9411	9414	9417	9420	9423	9426	9429	9432	9435	Units
Tap Value	8.0	11.5	14.5	17.0	20.0	23.0	26.0	29.0	32.0	35.0	dB
Bandwidth					10-1000						MHz
Color Code	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
Tolerance											
10-19 MHz	1.5	1.5	1.5	2.1	1.9	2.2	2.5	2.5	2.3	1.9	± dB
20-899 MHz	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	± dB
900-1000 MHz	1.5	2.5	2.3	2.2	2.0	1.9	1.7	1.6	1.8	2.0	± dB
Insertion Loss (max.)											
10 MHz	—	3.6	1.9	1.2	1.0	0.8	0.5	0.4	0.4	0.4	dB
30 MHz	—	3.5	1.5	0.9	0.8	0.7	0.4	0.3	0.3	0.3	dB
54 MHz	—	3.5	1.5	0.9	0.8	0.7	0.4	0.3	0.3	0.3	dB
112 MHz	—	4.0	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
150 MHz	—	4.1	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
186 MHz	—	4.1	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
222 MHz	—	4.2	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
330 MHz	—	4.3	1.9	1.0	1.0	0.9	0.6	0.6	0.6	0.6	dB
400 MHz	—	4.3	2.0	1.1	1.1	0.9	0.7	0.7	0.7	0.7	dB
450 MHz	—	4.3	2.0	1.1	1.1	0.9	0.7	0.7	0.7	0.7	dB
550 MHz	—	4.4	2.1	1.2	1.1	0.9	0.7	0.7	0.7	0.7	dB
600 MHz	—	4.7	2.4	1.4	1.1	1.0	0.8	0.8	0.8	0.8	dB
750 MHz	—	5.1	2.9	1.6	1.4	1.3	1.1	1.1	1.1	1.1	dB
862 MHz	—	5.2	3.3	1.8	1.6	1.5	1.2	1.2	1.2	1.2	dB
1000 MHz	—	5.4	4.0	2.2	1.8	1.6	1.4	1.3	1.3	1.3	dB
Flatness (max.)											
10-1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
Tap-to-Out Isolation (min.)											
10-29 MHz	—	20	21	22	27	30	34	34	36	38	dB
30-749 MHz	—	24	27	30	33	36	38	40	42	44	dB
750-899 MHz	—	22	25	28	31	34	36	38	40	42	dB
900-1000 MHz	—	22	25	28	31	34	36	38	40	42	dB
Tap-to-Tap Isolation (min.)											
10-29 MHz	20	20	20	20	20	20	20	20	20	20	dB
30-449 MHz	25	25	25	25	25	25	25	25	25	25	dB
450-749 MHz	23	23	23	23	23	23	23	23	23	23	dB
750-1000 MHz	20	20	20	20	20	20	20	20	20	20	dB
Return Loss In (min.)											
10-29 MHz	17	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	17	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
Return Loss Out (min.)											
10-29 MHz	—	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	—	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	—	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	—	16	16	16	16	16	16	16	16	16	dB
Return Loss Tap (min.)											
10-29 MHz	16	16	16	16	16	16	16	16	16	16	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	18	dB
600-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
Hum Modulation @ 8 amps (max.)											
10-49 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
50-599 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	-70	dB
600-749 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
750-1000 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	-60	dB
RFI Isolation	Exceeds FCC requirements										
Current (max.)	0	12	12	12	12	12	12	12	12	12	amps
Voltage Passing Capacity (min.)											
0-60 Hz	90	90	90	90	90	90	90	90	90	90	VAC
Surge Rating	ANSI/IEEE C62.41-1991, Class B, 2500 Volts										

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PHILIPS

Nominal Performance*

9800-C Eight-Way Series

	9812	9815	9818	9821	9824	9827	9830	9833	9836	Units
Tap Value	12.0	15.5	18.0	21.0	24.0	27.0	30.0	33.0	36.0	dB
Bandwidth					10-1000					MHz
Color Code	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
Insertion Loss (Input/Output)										
10 MHz	—	3.5	1.4	1.1	0.9	0.7	0.3	0.3	0.3	dB
30 MHz	—	3.4	1.3	0.9	0.7	0.6	0.3	0.3	0.3	dB
54 MHz	—	3.4	1.3	0.9	0.7	0.5	0.3	0.3	0.3	dB
112 MHz	—	3.8	1.7	1.0	0.8	0.7	0.4	0.5	0.4	dB
150 MHz	—	3.8	1.7	1.0	0.8	0.7	0.4	0.5	0.4	dB
186 MHz	—	3.9	1.8	1.0	0.8	0.7	0.4	0.5	0.4	dB
222 MHz	—	3.9	1.8	1.1	0.8	0.7	0.4	0.5	0.4	dB
330 MHz	—	4.0	1.9	1.1	0.8	0.7	0.5	0.5	0.5	dB
400 MHz	—	4.1	2.0	1.1	0.8	0.7	0.5	0.5	0.5	dB
450 MHz	—	4.1	2.0	1.1	0.9	0.7	0.6	0.6	0.5	dB
550 MHz	—	4.2	2.0	1.1	0.9	0.7	0.6	0.6	0.6	dB
600 MHz	—	4.5	2.2	1.2	0.9	0.8	0.7	0.7	0.6	dB
750 MHz	—	4.9	2.6	1.3	1.0	0.9	0.8	0.8	0.8	dB
862 MHz	—	5.0	2.9	1.5	1.2	1.1	1.0	1.0	1.0	dB
1000 MHz	—	5.2	3.5	1.7	1.2	1.1	1.1	1.1	1.1	dB
Tap Loss										
10-19 MHz	10.7	13.8	17.8	19.4	22.3	25.5	28.3	32.2	34.5	dB
20-899 MHz	11.3	14.7	18.4	20.6	24.3	26.7	30.4	32.3	35.6	dB
900-1000 MHz	13.0	16.7	18.8	20.7	25.1	27.8	30.4	33.2	36.3	dB

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Conventional Multi-Taps

Worst Case Specifications* — 9800-C Eight-Way Series

	9812	9815	9818	9821	9824	9827	9830	9833	9836	Units
Tap Value	12.0	15.5	18.0	21.0	24.0	27.0	30.0	33.0	36.0	dB
Bandwidth					10-1000					MHz
Color Code	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
Tolerance										
10-19 MHz	1.7	2.0	1.5	2.5	2.5	2.5	2.5	2.5	2.5	± dB
20-899 MHz	1.8	2.0	1.5	1.5	1.5	1.5	1.5	1.8	1.8	± dB
900-1000 MHz	2.3	2.5	1.9	2.4	2.1	2.1	1.9	2.1	2.3	± dB
Insertion Loss (max.)										
10 MHz	—	3.8	1.9	1.2	1.0	0.8	0.5	0.5	0.5	dB
30 MHz	—	3.5	1.5	1.0	0.9	0.7	0.4	0.4	0.4	dB
54 MHz	—	3.5	1.6	1.0	0.8	0.7	0.4	0.4	0.4	dB
112 MHz	—	4.0	1.9	1.2	0.9	0.8	0.6	0.6	0.6	dB
150 MHz	—	4.0	1.9	1.2	0.9	0.8	0.6	0.6	0.6	dB
186 MHz	—	4.1	2.0	1.3	1.0	0.8	0.6	0.6	0.6	dB
222 MHz	—	4.1	2.0	1.3	1.0	0.8	0.6	0.6	0.6	dB
330 MHz	—	4.2	2.1	1.4	1.0	0.8	0.6	0.6	0.6	dB
400 MHz	—	4.3	2.2	1.4	1.0	0.8	0.7	0.7	0.7	dB
450 MHz	—	4.4	2.2	1.4	1.0	0.8	0.7	0.7	0.7	dB
550 MHz	—	4.5	2.3	1.3	1.1	0.9	0.8	0.8	0.8	dB
600 MHz	—	4.7	2.4	1.4	1.1	1.0	0.9	0.9	0.9	dB
750 MHz	—	5.1	2.8	1.6	1.3	1.2	1.2	1.2	1.2	dB
862 MHz	—	5.3	3.2	1.8	1.6	1.3	1.4	1.4	1.4	dB
1000 MHz	—	5.4	3.9	2.3	1.8	1.4	1.4	1.4	1.4	dB
Flatness (max.)										
10-1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
Tap-to-Out Isolation (min.)										
10-29 MHz	—	21	24	27	30	34	34	36	38	dB
30-749 MHz	—	27	30	32	34	38	40	42	44	dB
750-899 MHz	—	25	28	30	33	36	38	40	41	dB
900-1000 MHz	—	25	28	28	33	34	36	38	39	dB
Tap-to-Tap Isolation (min.)										
10-29 MHz	20	20	20	20	20	20	20	20	20	dB
30-449 MHz	25	25	25	25	25	25	25	25	25	dB
450-749 MHz	23	23	23	23	23	23	23	23	23	dB
750-1000 MHz	20	20	20	20	20	20	20	20	20	dB
Return Loss In (min.)										
10-29 MHz	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	16	16	16	16	16	16	16	16	16	dB
Return Loss Out (min.)										
10-29 MHz	—	17	17	17	17	17	17	17	17	dB
30-599 MHz	—	18	18	18	18	18	18	18	18	dB
600-899 MHz	—	17	17	17	17	17	17	17	17	dB
900-1000 MHz	—	16	16	16	16	16	16	16	16	dB
Return Loss Tap (min.)										
10-29 MHz	16	16	16	16	16	16	16	16	16	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	dB
600-1000 MHz	16	16	16	16	16	16	16	16	16	dB
Hum Modulation @ 8 amps (max.)										
10-49 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	dB
50-599 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	dB
600-749 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	dB
750-1000 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	dB
RFI Isolation	Exceeds FCC requirements									
Current (max.)	0	12	12	12	12	12	12	12	12	amps
Voltage Passing Capacity (min.)										
0 to 60 MHz	90	90	90	90	90	90	90	90	90	VAC
Surge Rating	ANSI/IEEE C62.41-1991, Class B, 2500 Volts									

*All specifications are subject to change without notice.

PHILIPS

Specifications (continued)

9000-C Series

	Notes		Units
Mechanical			
Dimensions (height x width x depth)	a	3.8 x 4.9 x 2.4 (9.6 x 12.6 x 6.1)	in. (cm)
Weight		0.8 (0.37)	lbs. (kg)
Connector Type	b	Standard CATV KS entry connectors for cable up to 0.625" diameter	
Pin Length		1.44 (3.7)	in. (cm)

*All specifications are subject to change without notice.

Notes:

a. Height dimension includes plug; depth dimension includes 1/2" F-ports and strand clamp/bolt in closed position.

b. Pin connector (.067 inch diameter) is recommended for best RF performance.

TIME WARNER CABLE
SYRACUSE DIVISION

Converter and Trap Specifications

System Name: TIME WARNER CABLE ROME/ONEIDA

Date: JULY 2, 2002

All testing done at the end of a 100ft drop cable (RG-6) without a converter. Converter specification sheets are attached for "After Converter" numbers, if so desired.

Instructions:

Attach a copy of the manufacturer's specifications covering all converters used in the system. The specification sheet must show the converters carrier- to-noise (C/N) and distortion figures.

Attach a copy of the manufacturer's specifications covering all traps that are in use in the cable plant. This should include B-basic traps, individual channel traps, high pass filters, etc.

Time Warner Cable
Syracuse Division

CONVERTER
IN - CHANNEL FREQUENCY RESPONSE TEST

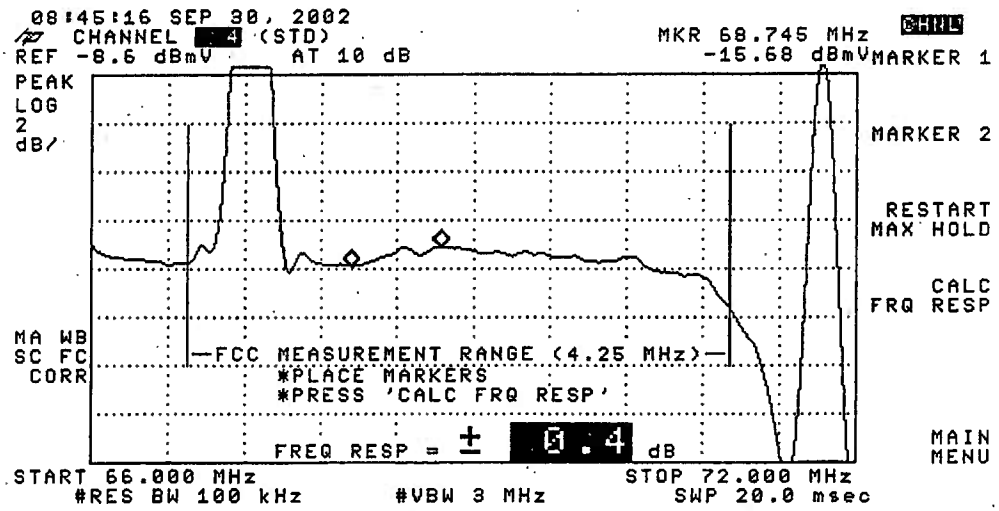
(76.605 (a) 6)

System Name: ROME/ONEIDA Date: AUGUST 6, 2002

Test Performed By MARK D'AOUST Location: HEADEND

MODEL: S/A-8610X SERIAL# FA756CJLQ633E6A

(SEE THE ATTATCHED SWEEP TRACES)



Time Warner Cable
Syracuse Division

CONVERTER
IN - CHANNEL FREQUENCY RESPONSE TEST

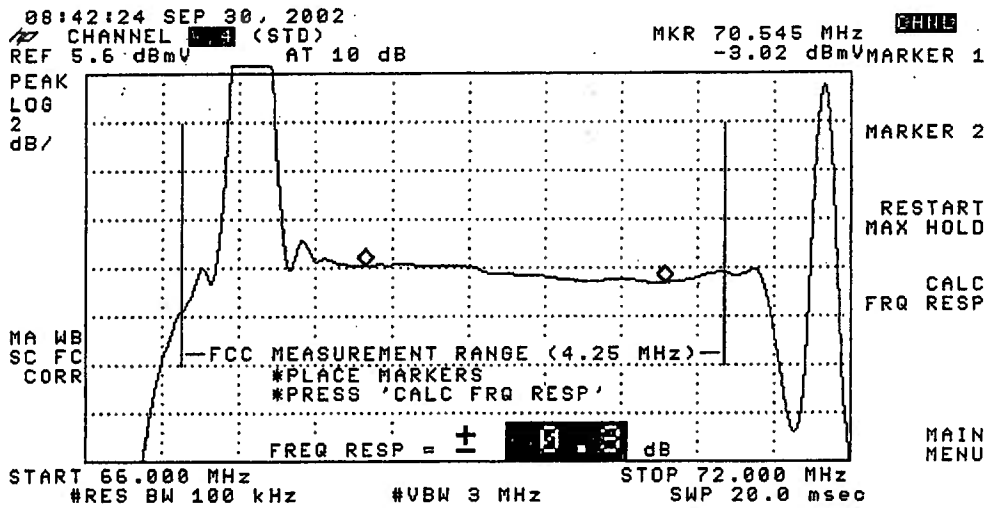
(76.605 (a) 6)

System Name: ROME/ONEIDA Date: AUGUST 6, 2002

Test Performed By MARK D'AOUST Location: HEADEND

MODEL: S/A-8580 SERIAL# BI732CLWC0505FE6

(SEE THE ATTATCHED SWEEP TRACES)



Time Warner Cable
Syracuse Division

CONVERTER
IN - CHANNEL FREQUENCY RESPONSE TEST

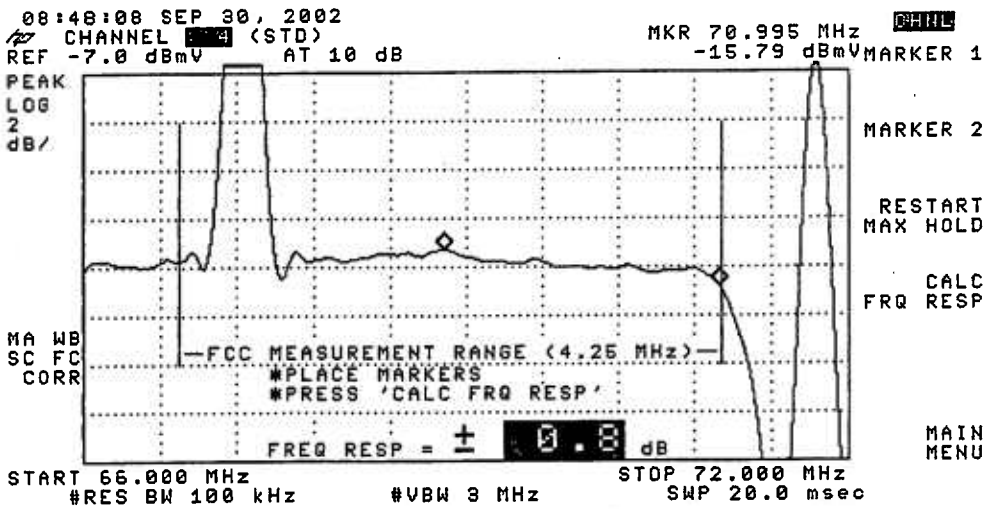
(76.605 (a) 6)

System Name: ROME/ONEIDA Date: AUGUST 6, 2002

Test Performed By MARK D'AOUST Location: HEADEND

MODEL: S/A-2100DHCT SERIAL# SABCTTCPR

(SEE THE ATTATCHED SWEEP TRACES)



EXPLORER 2000 DHCT Specifications

Introduction

This section contains operating and other specifications for the EXPLORER 2000 Digital Home Communications Terminal (DHCT).

Electrical Overstress Protection

The EXPLORER 2000 DHCT withstands the following electrical currents without damage:

- hits at 3.5 kV to the RF and AC input ports
- 10 hits of 15 kV from a 150 pF capacitor through a 150 ohm series resistor on all external ports

RF and Baseband Output Performance

The following table provides output measurements based on a +15 dBmV Input signal.

Item	Output
Cross modulation distortion (XMOD)	-54 dBc
Composite second order distortion (CSO)	-54 dBc
Composite triple beat distortion (CTB)	-55 dBc

Frequency Resolution

Frequency assignments comply with *STD*, *HRC*, and *IRC* frequency lineups.

Channel	Steps
QAM (digital)	250 kHz
NTSC (analog)	62.5 kHz

Continued on next page

Power

Item	Power
Consumption	35 Watts maximum
AC Input	Standard residential AC line voltage of 103.5 V AC to 126.5 V AC at 60 Hz
AC Outlet	Supplies 400 Watts maximum at the AC input line voltage. User controls on/off function through EXPLORER 2000 DHCT interface.

Analog Channel RF Input

Item	Specification
Connector	Threaded female F-connector
Frequency range	54 MHz to 860 MHz
RF input level	0 dBmV to +15 dBmV (meets NTSC specs)
Functional operation without damage	-7 dBmV to +20 dBmV (minimum)
Input return loss	7 dB minimum
Noise figure	<12 dB at maximum gain
C/N (at input)	57 dB minimum (meets all specs) 40 dB minimum (minimum)

Continued on next page

Digital Channel Input

Item	Specification
Frequency range	54 MHz to 869 MHz
Input return loss	7 dB minimum
Noise figure	<12 dB at maximum gain
Modulation technique	ITUJ.83 Annex A 64 QAM and 256 QAM
Transmission rate	• Approximately 30 Mbps at 64 QAM • Approximately 40 Mbps at 256 QAM
Transport	DAVIC structure - convolutional de-interleaving and Reed Solomon FEC with T=8
Average private data rate	3 Mbps (from QAM demodulated input to DRAM)
Private data format	per MPEG-2 (ISO/IEC 13818)

RF Input Levels

Item	Modulation Rate	Level
Typical for BER after FEC $<10^{-9}$	64 QAM	-20 dBmV to +14 dBmV
	256 QAM	-14 dBmV to +14 dBmV
Meets specifications of BER after FEC $<10^{-9}$	64 QAM	-15 dBmV to +14 dBmV
	256 QAM	-9 dBmV to +14 dBmV
C/N (at input) - to meet BER at input levels above	64 QAM	>32 dB in 6 MHz BW
	256 QAM	>38 dB in 6 MHz BW

Continued on next page

Digital Audio

Item	Specification
Data rate	384 Kbps maximum
Formats	• MPEG-1 • Layer 2 • 2 channel Musicam • AC-3
Supported sampling rates	• 32 kHz • 48 kHz • 44.1 kHz

Computer Generated Audio

The EXPLORER 2000 DHCT supports the following computer audio sampling rates:

- 8 kHz
- 11.025 kHz
- 22.05 kHz
- 24 kHz
- 32 kHz
- 44.1 kHz
- 48 kHz

Continued on next page

Baseband Audio Output

Category	Item	Specification
General	Connector	2 female RCA-type phono jacks: • Right channel - red insulation • Left channel - white insulation
	Output level	1.3 V p-p ± 10% with 10 kΩ load
	Output impedance	600 Ω nominal
	Mute	-50 dB
ResApp Controlled	Volume control	30 steps from 0 dB (maximum volume) to -63 dB nominal
Analog service (BTSC selected)	Frequency response	50 Hz to 10 kHz ± 2 dB
	Stereo channel separation	• 25 dB at 3 kHz • 15 dB at 10 kHz
	Total harmonic distortion	1 kHz <3.5%
	Signal-to-noise ratio	• > 45 dB A-weighted • 25 kHz L+R deviation at 1 kHz
Analog service (SAP selected)	Frequency response	100 Hz to 8 kHz ± 2 dB
	Total harmonic distortion	1 kHz < 3.0%
Digital service	Frequency response	20 Hz to 20 kHz ± 1.0 dB
	Signal to noise ratio	• >80 dB A-weighted • >80 dB at 1 kHz (dynamic range)
	Total harmonic distortion - 20 Hz to 20 kHz bandwidth	< 0.2% at 1 kHz
	Stereo channel separation	> 80 dB at 1 kHz

Continued on next page

Baseband Video Output

Item	Specification
Connector	Female RCA type with yellow insulation
Output	1.0 V p-p ± 10% at 75 Ω nominal
Frequency response - 220 kHz to 3.75 MHz (can change based on FCC part 76)	± 3 dB p-p
S/N with input +5 dBmV, input C/N 57 dB min. (55-550 MHz)	42 dB minimum unweighted
S/N with input +5 dBmV, input C/N 57 dB min. (55-860 MHz)	41 dB minimum unweighted

RF Output

Item	Specification
Connector	F type
Frequency	• Channel 3 - 61.25 MHz • Channel 4 - 67.25 MHz (channels are switchable)
RF output level	• +9 ± 4.5 dBmV Video • ± 13.5 ± 3.5 dBc Audio
Frequency response - 220 kHz to 3.75 MHz (can change based on FCC part 76)	± 3 dB p-p
Return loss	10 dB minimum
S/N with input +5 dBmV, input C/N 57 dB min. (55-550 MHz)	42 dB minimum unweighted equivalent to a 49 dB C/N, assuming 7 dB correction factor
S/N with input +5 dBmV, input C/N 57 dB min. (550-850 MHz)	41 dB minimum unweighted equivalent to a 48 dB C/N, assuming 7 dB correction factor

Continued on next page

S-Video Output

Part	Function
Connector	4-position mini-DIN
S/N with input +5 dBmV, input C/N 57 dB min. (55-550 MHz)	42 dB minimum unweighted
S/N with input +5 dBmV, input C/N 57 dB min. (550-860 MHz)	41 dB minimum unweighted
Output levels	• Y: 1 V p-p ± 10% • C: 0.29 V p-p ± 10%

Forward Control Channel RF Input

Item	Specification
Modulation technique	Differential QPSK
Frequency	70 MHz to 130 MHz agile in 250 kHz steps
Transmission rate	1.544 Mbps
Channel bandwidth	1 MHz
Channel spacing	1 MHz
Adjacent channel performance (data)	Meets BER performance at +6 dBc 1.00 MHz from center
Mode	Continuous
Transmission format	DS1 extended Superframe - 53 byte ATM cells with AAL5 layer T=1 Reed Solomon
RF input level	-16 dBm VRMS to +15 dBm VRMS (6 dB to 16 dB below NTSC video)
BER performance at C/N=18 dB (in 772 kHz BW) at RF level above	$< 10^{-9}$ after Reed Solomon

Continued on next page

Reverse Control and Interactive Channel RF Output

Item	Specification
Modulation technique	Differential QPSK
Frequency	8 MHz to 26.5 MHz
Channel bandwidth	1 MHz
Channel step size	50 kHz
Forward error correction	Shortened Reed Solomon (59,53), T=3
Mode	Burst mode
Transmission rate	256 Kbps or 1.544 Mbps (maximum burst rate)
Transmission format	53 byte ATM cells
Channel sharing protocol	Slotted ALOHA, TDMA and Reservation
Maximum RF output level	Variable +55 dBm VRMS minimum
C/N0, 2 MHz from carrier (Output level >40 dbm VRMS)	120 dB/Hz
Spurious output (5-42 MHz)	-45 dBC
Channel tuning time	< 5 mS

Memory Configuration

Memory Type	Capacity
CPU DRAM	4 MB standard, MB expandable to 16 MB at factory
CPU Flash	2 MB
CPU ROM	2 MB
Decompression/Graphics SDRAM	2 MB (shared by CPU for application processing)
CPU EEPROM	16 kb

Continued on next page

Eagle Graphics/Video Processing Specifications

Item	Specification
Video resolution	Up to 720 x 480 VGA
Graphics resolution	Up to 640 x 480 VGA non-interlaced
Color graphics display mode	256 or 65,000
Graphics features	• Video scaling and capturing • Alpha blending • 8 or 16 bit color • Square and round pixel display • Anti-flutter filter • Anti-aliasing fonts • Supports transparent, translucent, and opaque graphics and overlays

Environmental Specifications

Item	Specification
Operational temperature range	0°C to 40°C (32°F to 104°F)
Humidity	5% to 95%, non-condensing

Regulatory Specifications

The EXPLORER 2000 Digital Home Communications Terminal (DHCT) meets FCC Part 15, subpart B, class B, applicable parts of Part 76, and UL rule #1409 under the required category of Cable Terminal Devices.

Remote Control Specifications

Introduction

This section contains specifications for the Model 2050-ER1 remote control.

Remote Control Specifications

Item	Specification
IR wavelength	940 nm
Transmitting Range to EXPLORER 2000 DHCT at 2.8 V minimum voltage	• Straight to STT - 8 meters • Remote 30 degrees off center (all directions) • Remote 80 degrees up
Power	• Operational at a minimum battery voltage of 2.4 V • Meets specifications at 2.8 V • The microprocessor remains in stop mode to conserve power until the user presses a button.
Batteries	Uses 2 AA alkaline batteries
Operating temperature	0°C to 40°C (32°F to 104°F)

Series 8580 Addressable Home Terminal

SPECIFICATIONS

Environmental

Temperature
0°C to 45°C
Relative humidity
5% to 95%

Electrical

Input bandwidth
54 MHz to 550 MHz
Number of channels
82 with single cable
128 with optional dual cable
Output channel
3 or 4
Channel frequency response
±2 dB
Gain
8 dB, typical
Output level (meets FCC Part 15-H)
8.5 dBmV, typical
14 dBmV, max
Noise figure
8.7 dB, typical
Return loss
Input
7 dB (54 MHz to 440 MHz) minimum on tuned channel
5 dB (440 MHz to 550 MHz) minimum on tuned channel
Output
11 dB, min
Isolation input/output
60 dB
Spurious response
Input
-37 dBmV (up to 570 MHz)
Output
-57 dBmV in channel
Frequency accuracy
±100 kHz
AC input
115 V
Power consumption
9 W, typical
Surge protection
AC: Spark gaps and transformer isolation
RF: Inductor shunt to ground
Distortion at +15 dBmV, 78 channel load
Flat input: second order: -57 dB
(-57 dB 54 MHz to 440 MHz)
(-55 dB 440 MHz to 550 MHz)
Cross modulation: -57 dB
Composite triple beat: -57 dB
Input level
-7 dBmV to +20 dBmV

Mechanical

Dimensions
9.2 in. L x 6.9 in. W x 2.1 in. H
Weight
3.3 lbs
Keyboard type
6 keys (front access)
Display type
LED, 2.3 in. L x 0.57 in. H

IPPV Module Specifications

Telephone Return IPPV Module (Optional)
Complies with FCC Part 68
Ringer equivalence
0.00
Interface to telephone line
RJ-11C standard telephone jack
Surge protection
Dual MOVs and Zener diodes
RF Return IPPV Module (Optional)
Frequency range
15.45 MHz to 17.75 MHz
Modulation rate
20 kbps
Modulation technique
BPSK
Maximum output power
+55 dBmV

ORDER INFORMATION

Predominate Configurations

- Model 8580-338 for channel 3 output, 108.2 MHz data carrier and no IPPV
- Model 8580-336 for channel 3 output, 106.2 MHz data carrier and no IPPV
- Model 8580-438 for channel 4 output, 108.2 MHz data carrier and no IPPV
- Model 8580-436 for channel 4 output, 106.2 MHz data carrier and no IPPV
- Model 8580-338-D for channel 3 output, 108.2 MHz data carrier, no IPPV, and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8580-436-D for channel 4 output, 106.2 MHz data carrier, no IPPV and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)

- Model 8550-175 Remote Control

Specifications and product availability subject to change without notice.

Scientific Atlanta

Scientific-Atlanta, Inc. http://www.sciatl.com
United States: 4261 Communications Drive, Norcross, GA 30093; Tel: 800-433-6222; Fax: 770-903-4617
Canada: 7725 Lougheed Highway, Burnaby, BC V5A 4V8; Tel: 604-420-5322; Fax: 604-420-5941
United Kingdom: Home Park Estate, Kings Langley, Herts WD4 8LZ, England; Tel: 44-923-266-133; Fax: 44-192-327-0448
Singapore: 1 Claymore Drive, #08-11 Orchard Towers, Singapore 229594; Tel: 65-733-4314; Fax: 65-733-2706
Hong Kong: Suite 56 & 57; 5/F New Henry House, 10 Ice House Street, Central, Hong Kong; Tel: 852-2522-5059; Fax: 852-2522-5624

Series 8590 Addressable Home Terminal with Volume Control

SPECIFICATIONS

Environmental

Temperature
0°C to 45°C
Relative humidity
5% to 95%

Electrical

Input bandwidth
54 MHz to 550 MHz
Number of channels
82 with single cable
128 with optional dual cable
Output channel downloadable
3 or 4
Output level
9.0 dBmV , typical
Noise figure
8.7 dB, typical
Return loss
Input: 7 dB
Output: 11 dB
Spurious response
Output, -57 dBmV in channel
Frequency accuracy
±100 kHz
AC input
115 V
Power consumption
12 watts, typical
Surge protection
AC: Spark gaps and transformer isolation
RF: Inductor shunt to ground
Distortion at +15 dBmV, 78 channel load
Flat input, second order: -60 dB
Cross modulation: -60 dB
Composite triple beat: -60 dB
Input level
-7 dBmV to +20 dBmV
Audio distortion
THD 1%
Audio signal-to-noise
50 dB

Mechanical

Dimensions
9.2 in. L x 6.9 in. W x 2.1 in. H
Weight
3.6 lbs
Keyboard type
10 keys (front access)
Display type
LED, 2.3 in. L x 0.57 in. H

IPPV Module Specifications

Telephone Return Module (Optional)
Complies with FCC Part 68
Ringer equivalence
0.00
Interface to telephone line
RJ-11C standard telephone jack
Surge protection
Dual MOVs and Zener diodes

RF Return Module (Optional)
Frequency range
15.45 MHz to 17.75 MHz
Modulation rate
20 kbps
Modulation technique
BPSK
Maximum output power
+60 dBmV

ORDER INFORMATION

Predominate Configurations

- Model 8590-757B for Scientific-Atlanta video inversion descrambling
- Model 8590-757C for Scientific-Atlanta video inversion descrambling and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8590-777B for Scientific-Atlanta video inversion descrambling and Oak descrambling
- Model 8590-787 for Scientific-Atlanta video inversion descrambling and Zenith descrambling
- Model 8590-787C for Scientific-Atlanta video inversion descrambling and Zenith descrambling and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8597-757B for Scientific-Atlanta video inversion descrambling and installed RF-IPPV module
- Model 8595-757C for Scientific-Atlanta video inversion descrambling, installed Telephone IPPV module and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8550-475 Volume Control Remote Control

Specifications and product availability are subject to change without notice.

Scientific-Atlanta, Inc. http://www.sciatl.com
United States: 4261 Communications Drive, Norcross, GA 30093; Tel: 800-433-6222; Fax: 770-903-4617
Canada: 7725 Lougheed Highway, Burnaby, BC V5A 4V8; Tel: 604-420-5322; Fax: 604-420-5941
United Kingdom: Home Park Estate, Kings Langley, Herts WD4 8LZ, England; Tel: 44-923-266-133; Fax: 44-192-327-0448
Singapore: 1 Claymore Drive, #08-11 Orchard Towers, Singapore 229594; Tel: 65-733-4314; Fax: 65-733-2706
Hong Kong: Suite 56 & 57, 5/F New Henry House, 10 Ice House Street, Central, Hong Kong; Tel: 852-2522-5059; Fax: 852-2522-5624

Scientific Atlanta

SPECIFICATIONS

Environmental

Temperature
0°C to 45°C
Relative humidity
5% to 95%

Electrical

Input bandwidth
54 MHz to 550 MHz
54 MHz to 750 MHz (optional)
Number of channels
82 with single cable
99 with optional dual cable
116 channels (750 MHz option)
Output channel downloadable
3 or 4
Output level
9.0 dBmV, typ
Noise figure
8.7 dB (including baseband circuitry)
Return loss
Input
8 dB
Output
12 dB
Spurious response
Output
-60 dBc in channel
Frequency accuracy
±100 kHz max
Frequency stability
±100 kHz max
AC input
105 V to 125 V
Power consumption
12 W max
Surge protection
AC
Spark gaps and transformer isolation
RF
Inductor shunt to ground
Distortion at +15 dBmV, 78 channel load/116 channel load (750 MHz)
Flat input, second order
-60 dB
Cross modulation
-60 dB
Composite triple beat
-63 dB max
Input level
-7 dBmV to +20 dBmV
Audio distortion
THD 1%
Audio signal-to-noise
50 dB min

Mechanical

Dimensions
9.2 in. L x 7.0 in. W x 2.4 in. H
Weight
3.6 lbs
Keyboard type
11 keys (front access)
Display type
LED, two digit/LED, four digit (750 MHz option)
On-screen 10-line by 24-column character display

IPPV MODULE SPECIFICATIONS

Telephone Return (Optional)

Complies with FCC Part 68
Ringer equivalence
0.00
Interface to telephone line
RJ-11C standard telephone jack
Surge protection
Dual MOVs and Zener diodes

RF Return (Optional)

Frequency range
15.45 MHz to 17.75 MHz
Modulation rate
20 kbps
Modulation technique
BPSK
Maximum output power
+60 dBmV

Unless otherwise noted, specifications are typical.

Specifications and product availability are subject to change without notice.

SoundProtect is a trademark of Scientific Atlanta, Inc.

SPECIFICATIONS

Environmental
Temperature
0°C to 45°C
Relative humidity
5% to 95% (noncondensing)

Electrical
Input bandwidth
50 MHz to 750 MHz
Output channel
2/3 or 3/4
Output level
9 dBmV nominal
Noise figure
9 dB typical (including baseband circuitry)
Return loss
Input: 7 dB min
Output: 10 dB min
Spurious response
Output: -57 dBc in channel
Frequency accuracy
±100 kHz max
Frequency stability
±100 kHz max
AC input
103.5 V to 126.5 V
Surge protection
AC input, tested at 3.5 kV from 10µ F cap
RF input, tested at 3.5 kV from 10µ F cap
Distortion at 15 dBmV 80 channel loading
Flat input: second order -57 dB max
Cross modulation: -57 dB max
Composite triple beat: -53 dB max
Input level
-7 dBmV to 20 dBmV (operational)
Audio distortion
THD 2.5% max
Audio signal-to-noise
50 dB min
Aural carrier
4.5 MHz ±5 kHz — offset from visual carrier

Mechanical
Keyboard type
Individual push-button switches
Front location

User Interface
Display type
LED, 4 digits, clock display
On-screen display
16 lines x 45 columns (and 16 lines x 24 columns)
Graphics capability
320 pixels x 200 pixels x 16 colors Palette of 1203 colors

X-Port
Transmit/receive line voltage
TTL logic levels
Baud rate
14.42 kb/s (nominal)

RF Return
Frequency range
15.5 MHz to 17.7 MHz
Modulation rate
20 kbps
Modulation technique
BPSK
Maximum output power
60 dBmV (transmission peak)

Specifications and product availability are subject to change without notice.

Scientific Atlanta

Scientific-Atlanta, Inc. http://www.sciatl.com
United States: 4261 Communications Drive, Norcross, GA 30093; Tel: 800-722-2009; Fax: 770-903-4617
Canada: 7725 Lougheed Highway, Burnaby, BC V5A 4V8; Tel: 604-420-5822; Fax: 604-420-5941
United Kingdom: Home Park Estate, Kings Langley, Herts WD4 8LZ, England; Tel: 44-923-266-133; Fax: 44-192-327-0448
Singapore: 1 Claymore Drive, #08-11 Orchard Towers, Singapore 229594; Tel: 65-733-4314; Fax: 65-733-2705
Hong Kong: Suite 55 & 57, 5/F New Henry House, 10 Ice House Street, Central, Hong Kong; Tel: 852-2522-5059; Fax: 852-2523-6924

Series 8580 Addressable Home Terminal

SPECIFICATIONS

Environmental

Temperature
0°C to 45°C
Relative humidity
5% to 95%

Electrical

Input bandwidth
54 MHz to 550 MHz
Number of channels
82 with single cable
128 with optional dual cable
Output channel
3 or 4
Channel frequency response
±2 dB
Gain
8 dB, typical
Output level (meets FCC Part 15-H)
8.5 dBmV, typical
14 dBmV, max
Noise figure
8.7 dB, typical
Return loss
Input
7 dB (54 MHz to 440 MHz) minimum on tuned channel
5 dB (440 MHz to 550 MHz) minimum on tuned channel
Output
11 dB, min
Isolation input/output
60 dB
Spurious response
Input
-37 dBmV (up to 570 MHz)
Output
-57 dBmV in channel
Frequency accuracy
±100 kHz
AC input
115 V
Power consumption
9 W, typical
Surge protection
AC: Spark gaps and transformer isolation
RF: Inductor shunt to ground
Distortion at +15 dBmV, 78 channel load
Flat input: second order: -57 dB
(-57 dB 54 MHz to 440 MHz)
(-55 dB 440 MHz to 550 MHz)
Cross modulation: -57 dB
Composite triple beat: -57 dB
Input level
-7 dBmV to +20 dBmV

Mechanical

Dimensions
9.2 in. L x 6.9 in. W x 2.1 in. H
Weight
3.3 lbs
Keyboard type
6 keys (front access)
Display type
LED, 2.3 in. L x 0.57 in. H

IPPV Module Specifications

Telephone Return IPPV Module (Optional)
Complies with FCC Part 68
Ringer equivalence
0.00
Interface to telephone line
RJ-11C standard telephone jack
Surge protection
Dual MOVs and Zener diodes

RF Return IPPV Module (Optional)
Frequency range
15.45 MHz to 17.75 MHz
Modulation rate
20 kbps
Modulation technique
BPSK
Maximum output power
+55 dBmV

ORDER INFORMATION

Predominate Configurations

- Model 8580-338 for channel 3 output, 108.2 MHz data carrier and no IPPV
- Model 8580-336 for channel 3 output, 106.2 MHz data carrier and no IPPV
- Model 8580-438 for channel 4 output, 108.2 MHz data carrier and no IPPV
- Model 8580-436 for channel 4 output, 106.2 MHz data carrier and no IPPV
- Model 8580-338-D for channel 3 output, 108.2 MHz data carrier, no IPPV, and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8580-436-D for channel 4 output, 106.2 MHz data carrier, no IPPV and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)

- Model 8550-175 Remote Control

Specifications and product availability subject to change without notice.

Scientific Atlanta

Scientific-Atlanta, Inc. http://www.sciatl.com
United States: 4261 Communications Drive, Norcross, GA 30093; Tel: 800-433-6222; Fax: 770-903-4617
Canada: 7725 Lougheed Highway, Burnaby, BC V5A 4V8; Tel: 604-420-5322; Fax: 604-420-5941
United Kingdom: Home Park Estate, Kings Langley, Herts WD4 8LZ, England; Tel: 44-923-266-133; Fax 44-192-327-0448
Singapore: 1 Claymore Drive, #08-11 Orchard Towers, Singapore 229594; Tel: 65-733-4314; Fax 65-733-2706
Hong Kong: Suite 56 & 57, 5/F New Henry House, 10 Ice House Street, Central, Hong Kong; Tel: 852-2522-5059; Fax: 852-2522-5624

Series 8590 Addressable Home Terminal with Volume Control

SPECIFICATIONS

Environmental

Temperature
0°C to 45°C
Relative humidity
5% to 95%

Electrical

Input bandwidth
54 MHz to 550 MHz
Number of channels
82 with single cable
128 with optional dual cable
Output channel downloadable
3 or 4
Output level
9.0 dBmV , typical
Noise figure
8.7 dB, typical
Return loss
Input: 7 dB
Output: 11 dB
Spurious response
Output, -57 dBmV in channel
Frequency accuracy
±100 kHz
AC input
115 V
Power consumption
12 watts, typical
Surge protection
AC: Spark gaps and transformer isolation
RF: Inductor shunt to ground
Distortion at +15 dBmV, 78 channel load
Flat input, second order: -60 dB
Cross modulation: -60 dB
Composite triple beat: -60 dB
Input level
-7 dBmV to +20 dBmV
Audio distortion
THD 1%
Audio signal-to-noise
50 dB

Mechanical

Dimensions
9.2 in. L x 6.9 in. W x 2.1 in. H
Weight
3.6 lbs
Keyboard type
10 keys (front access)
Display type
LED, 2.3 in. L x 0.57 in. H

IPPV Module Specifications

Telephone Return Module (Optional)
Complies with FCC Part 68
Ringer equivalence
0.00
Interface to telephone line
RJ-11C standard telephone jack
Surge protection
Dual MOVs and Zener diodes
RF Return Module (Optional)
Frequency range
15.45 MHz to 17.75 MHz
Modulation rate
20 kbps
Modulation technique
BPSK
Maximum output power
+60 dBmV

ORDER INFORMATION

Predominate Configurations

- Model 8590-757B for Scientific-Atlanta video inversion descrambling
- Model 8590-757C for Scientific-Atlanta video inversion descrambling and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8590-777B for Scientific-Atlanta video inversion descrambling and Oak descrambling
- Model 8590-787 for Scientific-Atlanta video inversion descrambling and Zenith descrambling
- Model 8590-787C for Scientific-Atlanta video inversion descrambling and Zenith descrambling and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8597-757B for Scientific-Atlanta video inversion descrambling and installed RF IPPV module
- Model 8595-757C for Scientific-Atlanta video inversion descrambling, installed Telephone IPPV module and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8550-475 Volume Control Remote Control

Specifications and product availability are subject to change without notice.

Scientific Atlanta

Scientific-Atlanta, Inc. http://www.sciatl.com
United States: 4261 Communications Drive, Norcross, GA 30093; Tel: 800-433-6222; Fax: 770-903-4617
Canada: 7725 Lougheed Highway, Burnaby, BC V5A 4V8; Tel: 604-420-5322; Fax: 604-420-5941
United Kingdom: Home Park Estate, Kings Langley, Herts WD4 8LZ, England; Tel: 44-923-266-133; Fax: 44-192-327-0448
Singapore: 1 Claymore Drive, #08-11 Orchard Towers, Singapore 229594; Tel: 65-733-4314; Fax: 65-733-2706
Hong Kong: Suite 56 & 57, 5/F New Henry House, 10 Ice House Street, Central, Hong Kong; Tel: 852-2522-5059; Fax: 852-2522-5624

SPECIFICATIONS

Environmental

Temperature
- 0°C to 45°C

Relative humidity
- 5% to 95%

Electrical

Input bandwidth
- 54 MHz to 550 MHz
- 54 MHz to 750 MHz (optional)

Number of channels
- 82 with single cable
- 99 with optional dual cable
- 116 channels (750 MHz option)

Output channel downloadable
- 3 or 4

Output level
- 9.0 dBmV, typ

Noise figure
- 8.7 dB (including baseband circuitry)

Return loss
- Input
  - 8 dB
- Output
  - 12 dB

Spurious response
- Output
  - -60 dBc in channel

Frequency accuracy
- ±100 kHz max

Frequency stability
- ±100 kHz max

AC input
- 105 V to 125 V

Power consumption
- 12 W max

Surge protection
- AC
  - Spark gaps and transformer isolation
- RF
  - Inductor shunt to ground

Distortion at +15 dBmV, 78 channel load/116 channel load (750 MHz)
- Flat input, second order
  - -60 dB
- Cross modulation
  - -60 dB
- Composite triple beat
  - -63 dB max.

Input level
- -7 dBmV to +20 dBmV

Audio distortion
- THD 1%

Audio signal-to-noise
- 50 dB min

Mechanical

Dimensions
- 9.2 in. L x 7.0 in. W x 2.4 in. H

Weight
- 3.6 lbs

Keyboard type
- 11 keys (front access)

Display type
- LED, two digit/LED, four digit (750 MHz option)
- On-screen 10-line by 24-column character display

IPPV MODULE SPECIFICATIONS

Telephone Return (Optional)

Complies with FCC Part 68

Ringer equivalence
- 0.00

Interface to telephone line
- RJ-11C standard telephone jack

Surge protection
- Dual MOVs and Zener diodes

RF Return (Optional)

Frequency range
- 15.45 MHz to 17.75 MHz

Modulation rate
- 20 kbps

Modulation technique
- BPSK

Maximum output power
- +60 dBmV

Unless otherwise noted, specifications are typical.

Specifications and product availability are subject to change without notice.

8600 Advanced Analog Home Communications Terminal

SPECIFICATIONS

Environmental
Temperature
0°C to 45°C
Relative humidity
5% to 95% (noncondensing)

Electrical
Input bandwidth
50 MHz to 750 MHz
Output channel
2/3 or 3/4
Output level
9 dBmV nominal
Noise figure
9 dB typical (including baseband circuitry)
Return loss
Input: 7 dB min
Output: 10 dB min
Spurious response
Output: -57 dBc in channel
Frequency accuracy
±100 kHz max
Frequency stability
±100 kHz max
AC input
103.5 V to 126.5 V
Surge protection
AC input, tested at 3.5 kV from 10µ F cap
RF input, tested at 3.5 kV from 10µ F cap
Distortion at 15 dBmV 80 channel loading
Flat input, second order: -57 dB max
Cross modulation: - 57 dB max
Composite triple beat: -63 dB max
Input level
-7 dBmV to 20 dBmV (operational)
Audio distortion
THD 2.5% max
Audio signal-to-noise
50 dB min
Aural carrier
4.5 MHz ±5 kHz — offset from visual carrier

Mechanical
Keyboard type
Individual push-button switches
Front location

User Interface
Display type
LED, 4 digits, clock display
On-screen display
16 lines x 45 columns (and 16 lines x 24 columns)
Graphics capability
320 pixels x 200 pixels x 16 colors Palette of 1208 colors

X-Port
Transmit/receive line voltage
TTL logic levels
Baud rate
14.42 kb/s (nominal)

RF Return
Frequency range
15.5 MHz to 17.7 MHz
Modulation rate
20 kbps
Modulation technique
BPSK
Maximum output power
60 dBmV (transmission peak)

Specifications and product availability are subject to change without notice.

Scientific Atlanta

Scientific-Atlanta, Inc. http://www.sciatl.com
United States: 4251 Communications Drive, Norcross, GA 30093; Tel: 800-722-2009; Fax: 770-903-4617
Canada: 7725 Lougheed Highway, Burnaby, BC V5A 4V8; Tel: 604-420-5822; Fax: 604-420-5941
United Kingdom: Home Park Estate, Kings Langley, Herts WD4 8LZ, England; Tel: 44-923-266-133; Fax: 44-192-327-0448
Singapore: 1 Claymore Drive, #05-11 Orchard Towers, Singapore 229594; Tel: 65-733-4314; Fax: 65-733-2705
Hong Kong: Suite 55 & 57, 5/F New Henry House, 10 Ice House Street, Central, Hong Kong; Tel: 852-2522-5059; Fax: 852-2522-6924

ESN* Single Channel Negative Traps

Typical Response

Model	Channel		Notch Depth	L.A.S.	Upper Video	High Frequency Loss
ESN-A-2*	A-2	98	-75 dB	-3.2 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-A-1	A-1	99	-75 dB	-3.5 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-A	A	14	-75 dB	-3.7 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-B	B	15	-75 dB	-4.0 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-C	C	16	-75 dB	-4.3 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-D	D	17	-75 dB	-4.6 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-E	E	18	-75 dB	-4.8 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-F	F	19	-75 dB	-5.1 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-G	G	20	-75 dB	-5.4 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-H	H	21	-75 dB	-5.6 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-I	I	22	-75 dB	-5.9 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-7	7	7	-75 dB	-6.1 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-8	8	8	-75 dB	-6.3 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-9	9	9	-75 dB	-6.5 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-10	10	10	-75 dB	-6.6 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-11	11	11	-75 dB	-6.8 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-12	12	12	-75 dB	-7.0 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-13	13	13	-75 dB	-7.2 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-J	J	23	-70 dB	-7.4 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-K	K	24	-70 dB	-7.6 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-L	L	25	-70 dB	-7.8 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-M	M	26	-70 dB	-8.1 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-N	N	27	-70 dB	-8.2 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-O	O	28	-70 dB	-8.4 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-P	P	29	-70 dB	-8.7 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-Q	Q	30	-70 dB	-9.0 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-R	R	31	-70 dB	-9.3 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-S	S	32	-70 dB	-9.6 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-T	T	33	-70 dB	-9.9 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-U	U	34	-70 dB	-10.1 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-V	V	35	-70 dB	-10.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-W	W	36	-70 dB	-10.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-AA	AA	37	-70 dB	-10.6 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-BB	BB	38	-70 dB	-10.8 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-CC	CC	39	-70 dB	-11.0 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-DD	DD	40	-70 dB	-11.2 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-EE	EE	41	-70 dB	-11.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-FF	FF	42	-70 dB	-11.4 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-GG	GG	43	-70 dB	-11.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-HH	HH	44	-70 dB	-11.7 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-II	II	45	-70 dB	-12.0 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-JJ	JJ	46	-70 dB	-12.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-KK	KK	47	-70 dB	-12.6 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-LL	LL	48	-70 dB	-12.9 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-MM	MM	49	-70 dB	-13.2 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-NN	NN	50	-70 dB	-13.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-OO	OO	51	-70 dB	-13.8 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-PP	PP	52	-70 dB	-14.1 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-QQ	QQ	53	-70 dB	-14.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-RR	RR	54	-70 dB	-14.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-SS	SS	55	-70 dB	-14.8 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-TT	TT	56	-70 dB	-14.9 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-UU	UU	57	-70 dB	-15.1 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-VV	VV	58	-70 dB	-15.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-WW	WW	59	-70 dB	-15.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-XX	XX	60	-70 dB	-15.7 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-YY	YY	61	-70 dB	-15.9 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-ZZ	ZZ	62	-70 dB	-16.1 dB	-1.8 dB	-2.0 dB @ 1 GHz

*Patents #5148133, 5168251 Trap: Length is 3.56" / Diameter .825 / Specifications subject to change without notice

EAGLE COMTRONICS INC.

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Pub No. 496-4 Printed in USA

ETN* MICRO-SERIES Single Channel Negative Traps

Typical Response

MODEL	CHANNEL		NOTCH-DEPTH	L.A.S.	UPPER VIDEO	HIGH FREQUENCY LOSS
ETN-2*	2	2	-75 dB	-2.0 dB	-0.5 dB	-2.5dB @ 800 MHz
ETN-3	3	3	-75 dB	-2.5 dB	-0.5 dB	-2.5dB @ 860 MHz
ETN-4	4	4	-75 dB	-2.5 dB	-0.5 dB	-2.5dB @ 860 MHz
ETN-5	5	5	-75 dB	-0.5 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-6	6	6	-75 dB	-3.5 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-A-2	A-2	98	-75 dB		-1.0 dB	-2.5dB @ 860 MHz
ETN-A-1	A-1	99	-75 dB	-5.5 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-A	A	14	-75 dB	-5.8 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-B	B	15	-75 dB	-5.8 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-C	C	16	-75 dB	-5.8 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-D	D	17	-75 dB	-6.0 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-E	E	18	-75 dB	-6.2 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-F	F	19	-75 dB	-6.5 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-G	G	20	-75 dB	-6.8 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-H	H	21	-75 dB	-7.0 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-I	I	22	-75 dB	-7.2 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-7	7	7	-75 dB	-7.5 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-8	8	8	-75 dB	-8.0 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-9	9	9	-75 dB	-8.2 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-10	10	10	-75 dB	-9.0 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-11	11	11	-75 dB	-9.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-12	12	12	-75 dB	-10.0 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-13	13	13	-75 dB	-10.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-J	J	23	-70 dB	-11.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-K	K	24	-70 dB	-12.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-L	L	25	-70 dB	-13.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-M	M	26	-70 dB	-14.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-N	N	27	-70 dB	-15.0 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-O	O	28	-70 dB	-15.5 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-P	P	29	-70 dB	-16.0 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-Q	Q	30	-70 dB	-16.5 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-R	R	31	-70 dB	-17.0 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-S	S	32	-70 dB	-17.5 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-T	T	33	-70 dB	-18.5 dB	-2.5 dB	-2.5dB @ 860 MHz
ETN-U	U	34	-70 dB	-20.0 dB	-2.5 dB	-2.5dB @ 860 MHz
ETN-V	V	35	-70 dB	-21.5 dB	-2.5 dB	-2.5dB @ 860 MHz
ETN-W**	W	36	-70 dB	-23.0 dB	-2.5 dB	-2.5dB @ 860 MHz

* Patents #4451803, 5202656 **Higher channels available upon request.

EAGLE COMTRONICS INC.

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Pub No. 496-1 Printed in USA

TIME WARNER CABLE
SYRACUSE DIVISION

Proof - of - Performance Tests

Headend Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

E Location: 1117 ERIE BOULEVARD WEST ROME, NEW YORK 13440

Visual Carrier and Aural Carrier Difference Frequency Tests

(at Headend)

System Name: **TIME WARNER CABLE ROME/ONEIDA**

HE Location: **1117 ERIE BLVD. WEST, ROME NY. 13440**

Date: **JULY 2,2002** Performed by: **JOEL P. MARMON**

Chan	Freq	Visual Freq (MHz)	Aural Freq Diff. (MHz)	Chan	Freq	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)
2	55.2500	55.24991	4.49973	AA	301.2625	301.26316	4.50019
3	61.2500	61.26249	4.50024	BB	307.2625	307.26307	4.49978
4	67.2500	67.24637	4.49997	CC	313.2625	313.26148	4.49965
5	77.2500	77.24993	4.50011	DD	319.2625	319.26302	4.50003
6	83.2500	83.25170	4.50012	EE	325.2625	325.26251	4.50012
				FF	331.2750	331.27493	4.49995
				GG	337.2625	337.26268	4.50015
A-5	91.2500	91.26234	4.50002	HH	343.2625	343.26213	4.50008
A-4	97.2500	97.26249	4.49987	II	349.2625	349.26256	4.49977
A-3	103.2500			JJ	355.2625	355.26235	4.50013
A-2	109.2750			KK	361.2625	361.26257	4.49999
A-1	115.2750	115.27330	4.49992	LL	367.2625	367.26248	4.49984
A	121.2625	121.26251	4.49988	MM	373.2625	373.26249	4.50020
B	127.2625	127.26234	4.49997	NN	379.2625	379.26278	4.50024
C	133.2625	133.26177	4.50022	OO	385.2625	385.26235	4.50003
D	139.2500	139.22603	4.49976	PP	391.2625	391.26255	4.50030
E	145.2500	145.26237	4.50012	QQ	397.2625	397.26158	4.49997
F	151.3210	151.31776	4.50002	RR	403.2500	403.24974	4.50005
G	157.2500	157.24521	4.49963	SS	409.2500	409.26226	4.50000
H	163.2500	163.24658	4.49984	TT	415.2500	415.25045	4.49979
I	169.2500	169.24783	4.50037	UU	421.2500	421.26252	4.50052
7	175.2500	175.26231	4.50000	VV	427.2500	427.25012	4.50027
8	181.2500	181.26272	4.50010	WW	433.2500	433.26282	4.49951
9	187.2500	187.23234	4.49963	XX	439.2500	439.26197	4.49972
10	193.2500	193.26229	4.49994	YY	445.2500	445.24990	4.49980
11	199.2500	199.25569	4.50000	ZZ	451.2500	451.26219	4.49976
12	205.2500	205.24459	4.50005	63	457.2500	457.24941	4.49979
13	211.2500	211.26281	4.50030	64	463.2500	463.26215	4.50011
J	217.2500	217.25320	4.50039	65	469.2500	469.26242	4.50002
K	223.2500	223.24989	4.49988	66	475.2500	475.26234	4.50024
L	229.2625	229.26288	4.50027	67	481.2500	481.26253	4.49947
M	235.2625	235.25982	4.49992	68	487.2500	487.26230	4.50011
N	241.2625	241.26103	4.49998	69	493.2500	493.26219	4.49997
O	247.2625	247.26187	4.50059	70	499.2500	499.26170	4.50021
P	253.2625	253.26260	4.49987	71	505.2500	505.26198	4.50020
Q	259.2625	259.26180	4.49981	72	511.2500	511.25030	4.50009
R	265.2625	265.26253	4.50050	73	517.2500	517.26221	4.50000
S	271.2625	271.25956	4.49967	74	523.2500	523.26224	4.50039
T	277.2625	277.26072	4.49991	75	529.2500	529.26221	4.50010
U	283.2625	283.26273	4.49978	76	535.2500	535.26248	4.50014
V	289.2625	289.26279	4.49908	77	541.2500	541.26263	4.50006
W	295.2625	295.26230	4.49991	78	547.2500	547.26303	4.49996

Visual Carrier and Aural Carrier Difference Frequency Tests

(at Headend)

System Name: **TIME WARNER CABLE ROME/ONEIDA**

HE Location: **1117 ERIE BLVD. WEST, ROME, N.Y. 13440**

Date: **JULY 2,2002** Performed by: **JOEL P. MARMON**

*** CAMDEN'S CHANNELS**

Chan	Freq.	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)	Chan	Freq.	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)
2	55.2500			AA	301.2625		
3	61.2500			BB	307.2625		
4	67.2500			CC	313.2625		
5	77.2500			DD	319.2625		
6	83.2500			EE	325.2625		
				FF	331.2750		
				GG	337.2625		
A-5	91.2500			HH	343.2625		
A-4	97.2500			II	349.2625		
A-3	103.2500			JJ	355.2625		
A-2	109.2750			KK	361.2625		
A-1	115.2750			LL	367.2625		
A	121.2625			MM	373.2625		
B	127.2625			NN	379.2625		
C	133.2625			OO	385.2625		
D	139.2500			PP	391.2625		
E	145.2500			QQ	397.2625		
F	151.3210			RR	403.2500		
G	157.2500			SS	409.2500		
H	163.2500			TT	415.2500		
I	169.2500			UU	421.2500		
7	175.2500			VV	427.2500		
8	181.2500			WW	433.2500		
9	187.2500			XX	439.2500		
10	193.2500	193.26284	4.50000	YY	445.2500		
11	199.2500			ZZ	451.2500		
12	205.2500			63	457.2500		
13	211.2500			64	463.2500		
J	217.2500			65	469.2500		
K	223.2500			66	475.2500		
L	229.2625			67	481.2500		
M	235.2625			68	487.2500		
N	241.2625			69	493.2500		
O	247.2625			70	499.2500		
P	253.2625			71	505.2500		
Q	259.2625			72	511.2500		
R	265.2625			73	517.2500		
S	271.2625			74	523.2500		
T	277.2625			75	529.2500		
U	283.2625			76	535.2500		
V	289.2625			77	541.2500		
W	295.2625			78	547.2500		

Visual Carrier and Aural Carrier Difference Frequency Tests

(at Headend)

System Name: **TIME WARNER CABLE ROME/ONEIDA**

HE Location: **1117 ERIE BLVD. WEST, ROME, N.Y. 13440**

Date: **JULY 2,2002** Performed by: **JOEL P. MARMON**

*** HAMILTON'S CHANNELS**

Chan	Freq.	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)	Chan	Freq.	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)
2	55.2500			AA	301.2625		
3	61.2500			BB	307.2625		
4	67.2500			CC	313.2625		
5	77.2500			DD	319.2625		
6	83.2500			EE	325.2625		
				FF	331.2750		
				GG	337.2625		
A-5	91.2500			HH	343.2625		
A-4	97.2500			II	349.2625		
A-3	103.2500			JJ	355.2625		
A-2	109.2750			KK	361.2625		
A-1	115.2750			LL	367.2625		
A	121.2625			MM	373.2625		
B	127.2625			NN	379.2625		
C	133.2625			OO	385.2625		
D	139.2500			PP	391.2625		
E	145.2500			QQ	397.2625		
F	151.3210			RR	403.2500		
G	157.2500			SS	409.2500		
H	163.2500			TT	415.2500		
I	169.2500			UU	421.2500		
7	175.2500			VV	427.2500		
8	181.2500			WW	433.2500		
9	187.2500			XX	439.2500		
10	193.2500	193.26353	4.50001	YY	445.2500		
11	199.2500	199.26267	4.50010	ZZ	451.2500		
12	205.2500			63	457.2500		
13	211.2500			64	463.2500		
J	217.2500			65	469.2500		
K	223.2500			66	475.2500		
L	229.2625			67	481.2500		
M	235.2625			68	487.2500		
N	241.2625			69	493.2500		
O	247.2625			70	499.2500		
P	253.2625			71	505.2500		
Q	259.2625			72	511.2500		
R	265.2625			73	517.2500		
S	271.2625			74	523.2500		
T	277.2625			75	529.2500		
U	283.2625			76	535.2500		
V	289.2625			77	541.2500		
W	295.2625			78	547.2500		

Visual Carrier and Aural Carrier Difference Frequency Tests

(at Headend)

System Name: **TIME WARNER CABLE ROME/ONEIDA**

HE Location: **1117 ERIE BLVD. WEST, ROME, N.Y. 13440**

Date: **JULY 2,2002** Performed by: **JOEL P. MARMON**

*** ONEIDA'S CHANNELS**

Chan	Freq.	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)	Chan	Freq.	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)
2	55.2500			AA	301.2625		
3	61.2500			BB	307.2625		
4	67.2500			CC	313.2625		
5	77.2500			DD	319.2625		
6	83.2500			EE	325.2625		
				FF	331.2750		
				GG	337.2625		
A-5	91.2500			HH	343.2625		
A-4	97.2500			II	349.2625		
A-3	103.2500			JJ	355.2625		
A-2	109.2750			KK	361.2625		
A-1	115.2750			LL	367.2625	367.26258	4.49996
A	121.2625			MM	373.2625		
B	127.2625	127.26253	4.50048	NN	379.2625		
C	133.2625			OO	385.2625		
D	139.2500			PP	391.2625		
E	145.2500			QQ	397.2625		
F	151.3210			RR	403.2500		
G	157.2500			SS	409.2500		
H	163.2500	163.26279	4.50008	TT	415.2500		
I	169.2500			UU	421.2500		
7	175.2500			VV	427.2500		
8	181.2500			WW	433.2500		
9	187.2500			XX	439.2500		
10	193.2500	193.25170	4.50000	YY	445.2500	445.26249	4.50003
11	199.2500			ZZ	451.2500		
12	205.2500			63	457.2500		
13	211.2500			64	463.2500		
J	217.2500			65	469.2500		
K	223.2500	223.26268	4.50002	66	475.2500		
L	229.2625			67	481.2500		
M	235.2625	235.26130	4.49998	68	487.2500		
N	241.2625	241.26149	4.50002	69	493.2500		
O	247.2625	247.26259	4.50000	70	499.2500		
P	253.2625			71	505.2500		
Q	259.2625	259.26247	4.50001	72	511.2500		
R	265.2625			73	517.2500		
S	271.2625	271.26279	4.49998	74	523.2500		
T	277.2625	277.26273	4.50002	75	529.2500		
U	283.2625			76	535.2500		
V	289.2625	289.26224	4.50003	77	541.2500		
W	295.2625			78	547.2500		

Visual Carrier and Aural Carrier Difference Frequency Tests

(at Headend)

System Name: **TIME WARNER CABLE ROME/ONEIDA**

HE Location: **1117 ERIE BLVD. WEST, ROME, N.Y. 13440**

Date: **JULY 2,2002** Performed by: **JOEL P. MARMON**

*** BOONVILLE'S CHANNELS**

Chan	Freq	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)	Chan	Freq	Visual Freq. (MHz)	Aural Freq. Diff. (MHz)
2	55.2500			AA	301.2625		
3	61.2500	61.24987	4.50002	BB	307.2625		
4	67.2500			CC	313.2625		
5	77.2500			DD	319.2625		
6	83.2500			EE	325.2625		
				FF	331.2750		
				GG	337.2625		
A-5	91.2500			HH	343.2625		
A-4	97.2500			II	349.2625		
A-3	103.2500			JJ	355.2625		
A-2	109.2750			KK	361.2625		
A-1	115.2750			LL	367.2625		
A	121.2625			MM	373.2625		
B	127.2625			NN	379.2625		
C	133.2625			OO	385.2625		
D	139.2500			PP	391.2625		
E	145.2500			QQ	397.2625		
F	151.3210			RR	403.2500		
G	157.2500			SS	409.2500		
H	163.2500			TT	415.2500		
I	169.2500			UU	421.2500		
7	175.2500			VV	427.2500		
8	181.2500	181.26503	4.50004	WW	433.2500		
9	187.2500			XX	439.2500		
10	193.2500	193.25907	4.50007	YY	445.2500		
11	199.2500			ZZ	451.2500		
12	205.2500			63	457.2500		
13	211.2500			64	463.2500		
J	217.2500			65	469.2500		
K	223.2500			66	475.2500		
L	229.2625			67	481.2500		
M	235.2625			68	487.2500		
N	241.2625			69	493.2500		
O	247.2625			70	499.2500		
P	253.2625			71	505.2500		
Q	259.2625			72	511.2500		
R	265.2625			73	517.2500		
S	271.2625			74	523.2500		
T	277.2625			75	529.2500		
U	283.2625			76	535.2500		
V	289.2625			77	541.2500		
W	295.2625			78	547.2500		

Visual / Aural Level Difference Test

(at Headend)

System Name: **ROME/ONEIDA**

HE Location: **1117 ERIE BLVD. WEST, ROME**

Date: 09-Aug-02 Performed by: **MARK A. D'AOUST**

Time: 03:02 PM Meter /Serial Number: **CALAN 3010#US37241488**

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scram S	Diff (DbmV)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scram S	Diff (Dbmv)
2	55.2500	11.1	-1.9		13.0	AA	289.2625	10.7	-3.7		14.4
3	61.2500	10.8	-3.0		13.8	BB	307.2625	10.8	-3.6		14.4
4	67.2500	10.8	-2.6		13.4	CC	313.2625	10.5	-3.3		13.8
5	77.2500	11.2	-2.5		13.7	DD	319.2625	10.8	-3.4		14.2
6	83.2500	10.9	-3.3		14.2	EE	325.2625	10.6	-3.7		14.3
						FF	331.2750	11.2	-3.3		14.5
						GG	337.2625	10.5	-3.9	S	14.4
A-5	91.2500	10.8	-4.0	S	14.8	HH	343.2625	11.1	-3.1		14.2
A-4	97.2500	11.0	-3.8		14.8	II	349.2625	10.9	-3.5	S	14.4
A-3	103.2500					JJ	355.2625	10.8	-3.2		14.0
A-2	109.2750					KK	361.2625	10.5	-3.2		13.7
A-1	115.2750	10.4	-4.7	S	15.1	LL	367.2625	10.5	-3.1		13.6
A	121.2625	10.9	-3.0		13.9	MM	373.2625	11.0	-3.7		14.7
B	127.2625	11.3	-2.7		14.0	NN	379.2625	11.0	-3.4		14.4
C	133.2625	11.1	-3.0		14.1	OO	385.2625	10.7	-4.4	S	15.1
D	139.2500	11.0	-4.4	S	15.4	PP	391.2625	10.7	-4.2	S	14.9
E	145.2500	11.0	-3.0		14.0	QQ	397.2625	10.5	-4.0	S	14.5
F	151.2500	10.9	-2.0		12.9	RR	403.2500	10.7	-3.8	S	14.5
G	157.2500	11.0	-3.6		14.6	SS	409.2500	10.9	-4.7	S	15.6
H	163.2500	10.6	-3.1		13.7	TT	415.2500	11.1	-3.7		14.8
I	169.2500	11.0	-3.2		14.2	UU	421.2500	10.7	-4.4	S	15.1
7	175.2500	10.8	-3.3		14.1	VV	427.2500	10.6	-3.1		13.7
8	181.2500	10.9	-3.5		14.4	WW	433.2500	10.8	-4.0	S	14.8
9	187.2500	11.2	-2.4		13.6	XX	439.2500	10.6	-4.0	S	14.6
10	193.2500	10.8	-2.8		13.6	YY	445.2500	11.0	-3.7		14.7
11	199.2500	10.8	-3.1		13.9	ZZ	451.2500	10.4	-4.0	S	14.4
12	205.2500	11.3	-2.1		13.4	63	457.2500	10.9	-3.5	S	14.4
13	211.2500	10.8	-3.0		13.8	64	463.2500	10.8	-4.1	S	14.9
J	217.2500	10.6	-3.2	S	13.8	65	469.2500	10.4	-4.6	S	15.0
K	223.2500	11.1	-3.0		14.1	66	475.2500	10.8	-4.3	S	15.1
L	229.2625	11.2	-3.5	S	14.7	67	481.2500	10.5	-5.0	S	15.5
M	235.2625	10.9	-3.6	S	14.5	68	487.2500	10.8	-3.2	S	14.0
N	241.2625	11.3	-2.0		13.3	69	493.2500	10.7	-4.0	S	14.7
O	247.2625	11.2	-2.8		14.0	70	499.2500	10.8	-3.9	S	14.7
P	253.2625	10.8	-3.2		14.0	71	505.2500	9.9	-4.2	S	14.1
Q	259.2625	10.9	-3.4		14.3	72	511.2500	10.9	-3.7	S	14.6
R	265.2625	11.2	-2.5		13.7	73	517.2500	10.8	-3.9	S	14.7
S	271.2625	11.1	-3.0		14.1	74	523.2500	10.9	-3.1	S	14.0
T	277.2625	11.0	-2.7		13.7	75	529.2500	11.2	-2.5	S	13.7
U	283.2625	11.0	-3.0		14.0	76	535.2500	10.5	-4.1	S	14.6
V	289.2625	10.5	-2.9		13.4	77	541.2500	11.1	-2.9	S	14.0
W	283.2625	10.8	-3.8		14.6	78	547.2500	11.2	-2.7	S	13.9

PEAK TO VALLEY: 0.9

Table of Contents

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

System Test Point # 1

Location: NORTH ST. CLEVELAND

Community: VILLAGE OF CLEVELAND

Pole Number: NM1

D.T. Value: 11/2

Map Number: 407-5710

OR Number: 341

Trunk Cascade: 4 LE Cascade: 1

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **NORTH STREET**

Date: 07-Aug-02

Time: 08:30 AM

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra St	Diff ((Dbmv)
2	55.2500	24.0	10.6		13.4	AA	301.2625	22.6	8.1		14.5
3	61.2500	24.2	10.4		13.8	BB	307.2625	21.9	7.3		14.6
4	67.2500	24.3	10.5		13.8	CC	313.2625	22.0	7.7		14.3
5	77.2500	24.2	11.3		12.9	DD	319.2625	21.7	7.3		14.4
6	83.2500	24.0	10.5		13.5	EE	325.2625	20.5	7.5		13.0
						FF	331.2750	21.3	7.8		13.5
						GG	337.2625	21.4	6.8	S	14.6
A-5	91.2500	24.5	9.5	S	15.0	HH	343.2625	21.4	7.2		14.2
A-4	97.2500	24.4	9.2		15.2	II	349.2625	21.1	7.5		13.6
A-3	103.2500					JJ	355.2625	21.4	6.9		14.5
A-2	109.2750					KK	361.2625	20.8	7.1		13.7
A-1	115.2750	22.1	8.4	S	13.7	LL	367.2625	22.8	9.1		13.7
A	121.2625	22.2	9.9		12.3	MM	373.2625	20.3	5.6		14.7
B	127.2625	23.2	9.2		14.0	NN	379.2625	20.1	6.3		13.8
C	133.2625	22.5	9.0		13.5	OO	385.2625	19.6	8.5		11.1
D	139.2500	22.5	9.2	S	13.3	PP	391.2625	17.5	2.5	S	15.0
E	145.2500	22.3	8.2		14.1	QQ	397.2625	18.6	6.5	S	12.1
F	151.2500	21.6	7.3		14.3	RR	403.2500	19.9	5.5	S	14.4
G	157.2500	22.3	7.6		14.7	SS	409.2500	19.8	4.8	S	15.0
H	163.2500	22.4	8.4		14.0	TT	415.2500	19.8	6.2		13.6
I	169.2500	22.4	7.8		14.6	UU	421.2500	19.6	8.9	S	10.7
7	175.2500	22.2	8.5		13.7	VV	427.2500	19.7	5.6		14.1
8	181.2500	21.9	8.5		13.4	WW	433.2500	19.8	5.4	S	14.4
9	187.2500	21.8	8.0		13.8	XX	439.2500	19.5	3.8	S	15.7
10	193.2500	23.0	9.4		13.6	YY	445.2500	21.0	6.7		14.3
11	199.2500	22.5	8.4		14.1	ZZ	451.2500	19.3	4.1	S	15.2
12	205.2500	20.7	4.9		15.8	63	457.2500	20.3	5.7	S	14.6
13	211.2500	21.3	7.6		13.7	64	463.2500	19.9	4.8	S	15.1
J	217.2500	21.3	8.6		12.7	65	469.2500	20.2	5.2	S	15.0
K	223.2500	21.5	6.6		14.9	66	475.2500	20.0	6.2	S	13.8
L	229.2625	21.0	5.0	S	16.0	67	481.2500	20.4	6.1	S	14.3
M	235.2625	22.0	8.0		14.0	68	487.2500	19.9	6.4	S	13.5
N	241.2625	22.0	8.0		14.0	69	493.2500	20.0	5.9	S	14.1
O	247.2625	22.9	9.9		13.0	70	499.2500	20.2	6.4		13.8
P	253.2625	21.8	8.0		13.8	71	505.2500	19.8	5.9	S	13.9
Q	259.2625	23.6	10.5		13.1	72	511.2500	20.4	6.5	S	13.9
R	265.2625	22.6	7.7		14.9	73	517.2500	19.7	5.2	S	14.5
S	271.2625	23.5	10.1		13.4	74	523.2500	19.7	5.5	S	14.2
T	277.2625	22.3	11.3		11.0	75	529.2500	20.1	5.2	S	14.9
U	283.2625	22.6	8.5		14.1	76	535.2500	20.0	7.7	S	12.3
V	289.2625	23.6	10.9		12.7	77	541.2500	19.1	5.1	S	14.0
W	295.2625	22.3	9.4		12.9	78	547.2500	19.4	5.0	S	14.4

PEAK TO VALLEY: 7

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

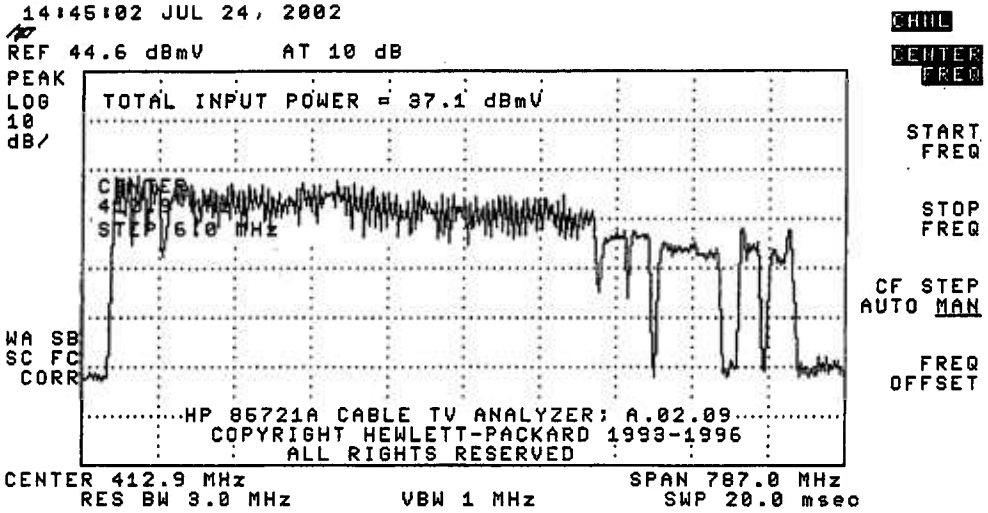
System Name: TIME WARNER CABLE ROME/ONEIDA **Date:** JULY 24,2002

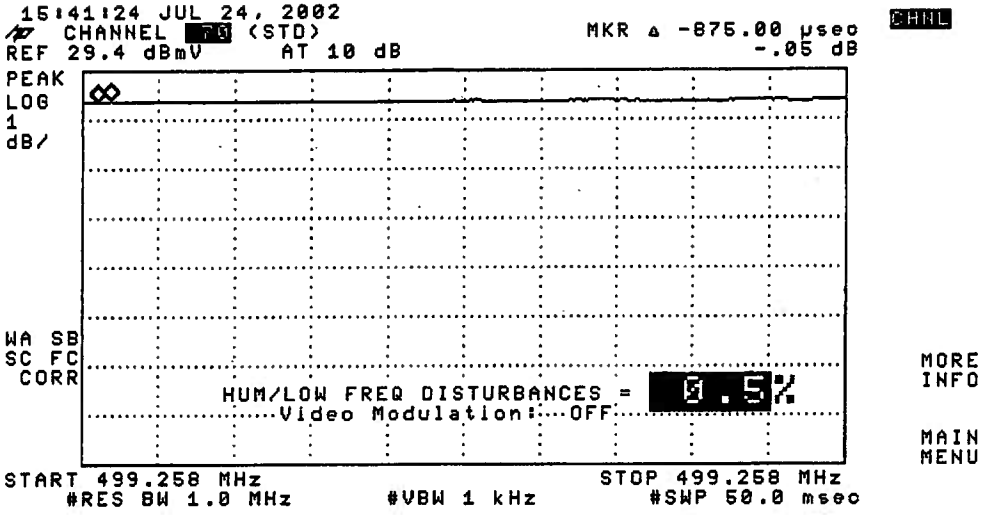
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: NORTH ST. CLEVELAND

Note: Make measurements through a 100 ft. test drop cable without converter.

3	0.30	47.8	69.9	77.8		
19	0.30	48.7	66.2	73.0		
7	0.20	49.8	65.3	76.1		
31	0.30	48.3	62.7	69.1		
36	0.10	49.5	65.4	70.0		
43	0.20	49.6	62.7	68.1		
47	0.20	48.2	61.3	67.6		
55	0.20	48.6	62.6	67.0		
70	0.20	49.1	68.9	71.6		0.5


14:45:02 JUL 24, 2002
REF 44.6 dBmV
AT 10 dB
PEAK
LOG
10
dB/
TOTAL INPUT POWER = 37.1 dBmV
CENTER
STEP 6.0 MHz
WA SB
SC FC
CORR
HP 85721A CABLE TV ANALYZER; A.02.09
COPYRIGHT HEWLETT-PACKARD 1993-1996
ALL RIGHTS RESERVED
CENTER 412.9 MHz
RES BW 3.0 MHz
VBW 1 MHz
SPAN 787.0 MHz
SWP 20.0 msec
CHNL
CENTER FREQ
START FREQ
STOP FREQ
CF STEP
AUTO MAN
FREQ OFFSET


15:41:24 JUL 24, 2002
CHANNEL 79 (STD)
REF 29.4 dBmV
AT 10 dB
MKR Δ -875.00 µsec
-.05 dB
CHNL
PEAK
LOG
1
dB/
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.5%
Video Modulation: OFF
MORE
INFO
MAIN
MENU
START 499.258 MHz
#RES BW 1.0 MHz
#VBW 1 kHz
STOP 499.258 MHz
#SWP 50.0 msec

Time Warner Cable
Syracuse Division

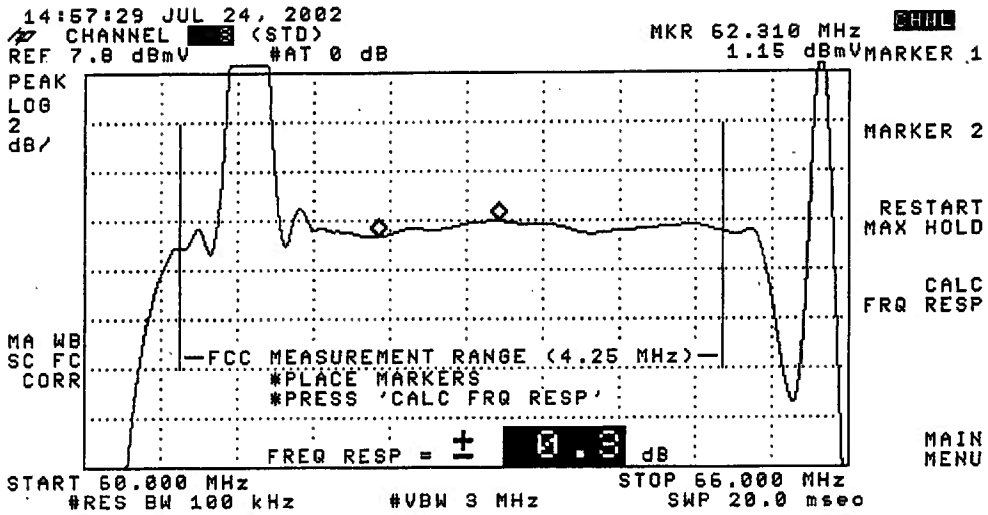
IN - CHANNEL FREQUENCY RESPONSE TEST

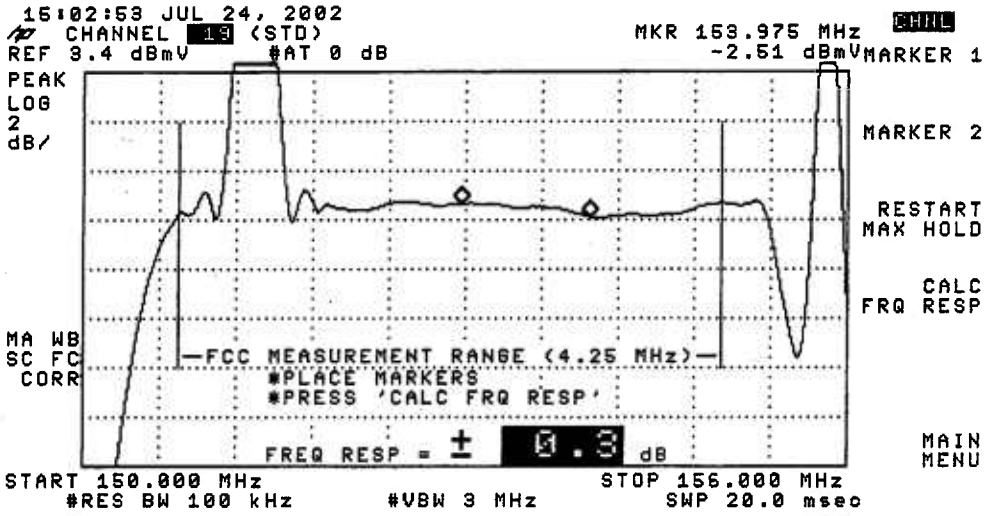
(76.605 (a) 6)

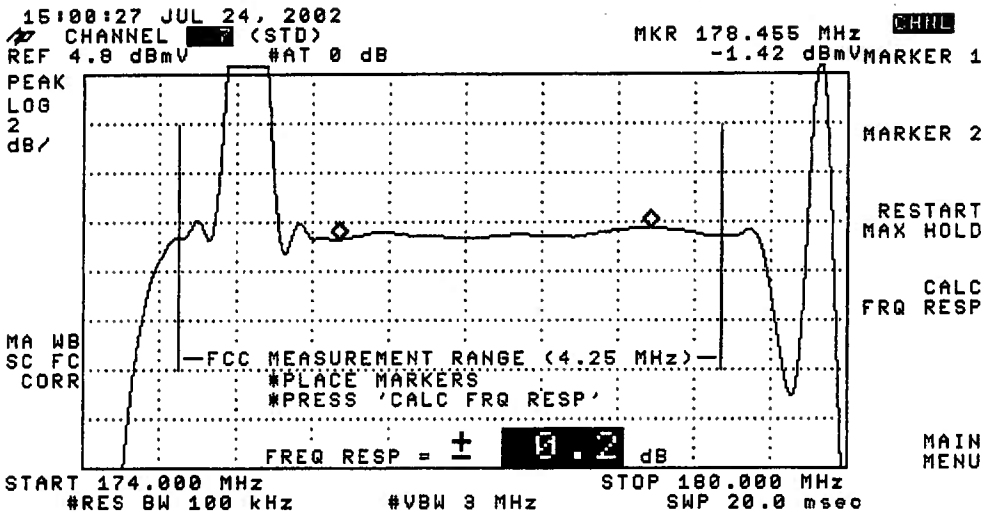
System Name: ROME/ONEIDA Date: AUGUST 22,2002

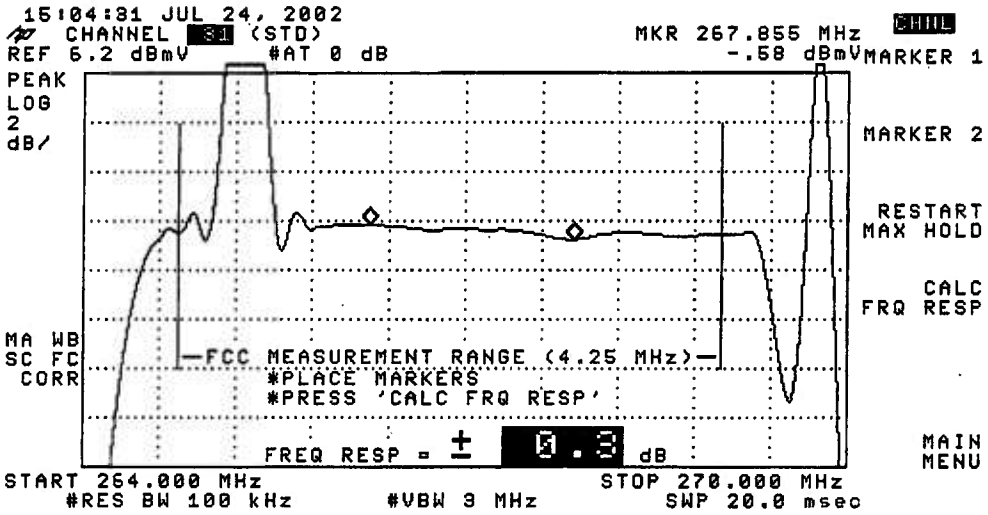
Test Performed By: MARK D'AOUST/JOEL MARMON Location: NORTH STREET

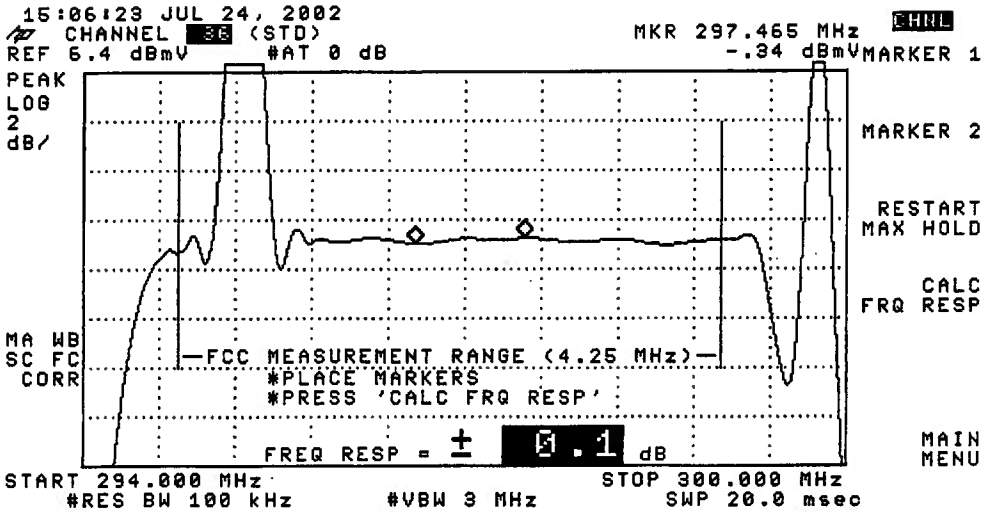
(SEE THE ATTATCHED SWEEP TRACES)

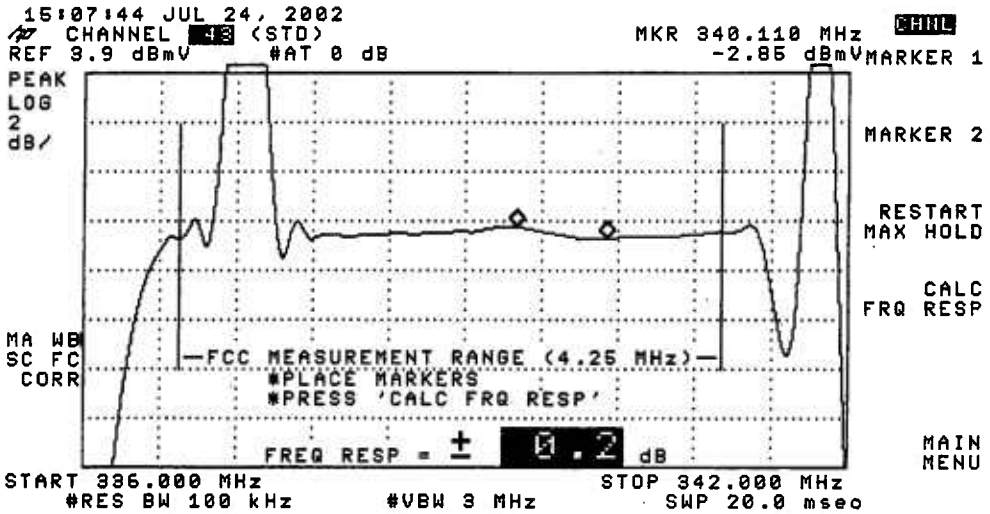

14:57:29 JUL 24, 2002
CHANNEL 3 (STD)
REF 7.8 dBmV
#AT 0 dB
MKR 62.310 MHz
1.15 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

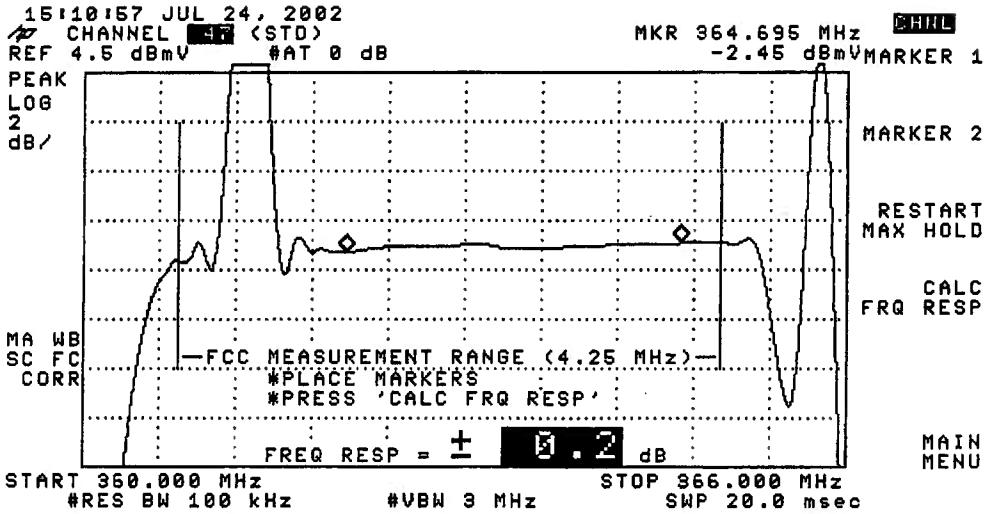

15:02:53 JUL 24, 2002
CHANNEL 19 (STD)
REF 3.4 dBmV
#AT 0 dB
MKR 153.975 MHz
-2.51 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 156.000 MHz
SWP 20.0 msec

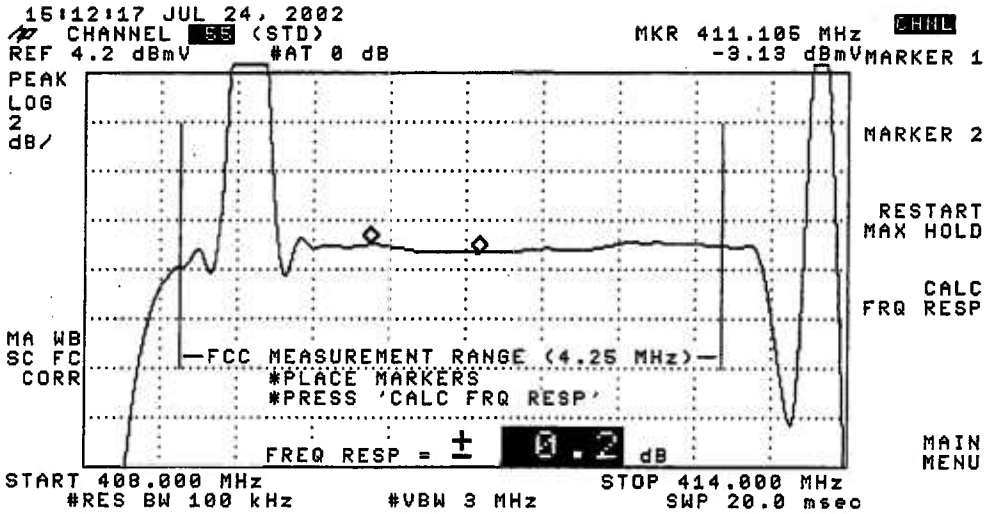

15:00:27 JUL 24, 2002
CHANNEL 7 (STD)
REF 4.8 dBmV
#AT 0 dB
MKR 178.455 MHz
-1.42 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 174.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 180.000 MHz
SWP 20.0 msec

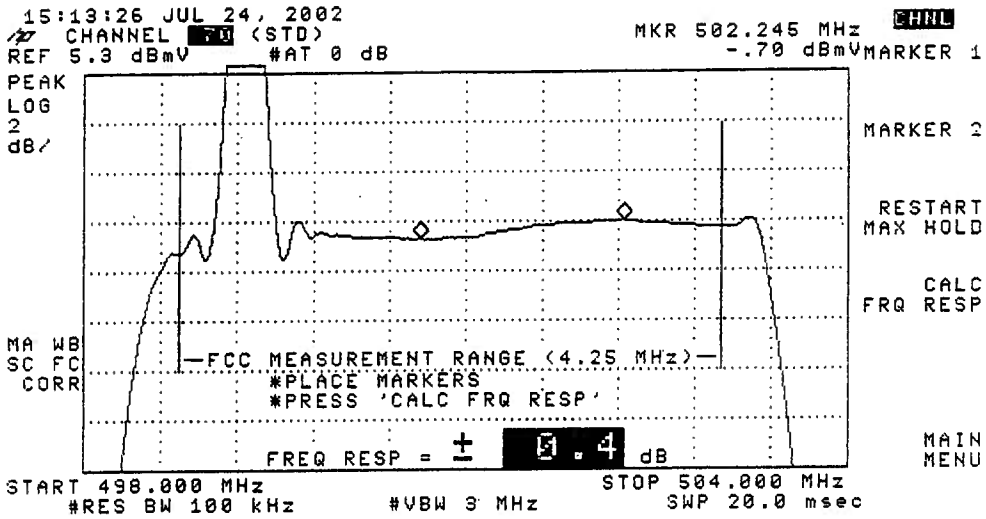

15:04:31 JUL 24, 2002
CHANNEL 31 (STD)
REF 6.2 dBmV
#AT 0 dB
MKR 267.855 MHz
-.58 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 264.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 270.000 MHz
SWP 20.0 msec

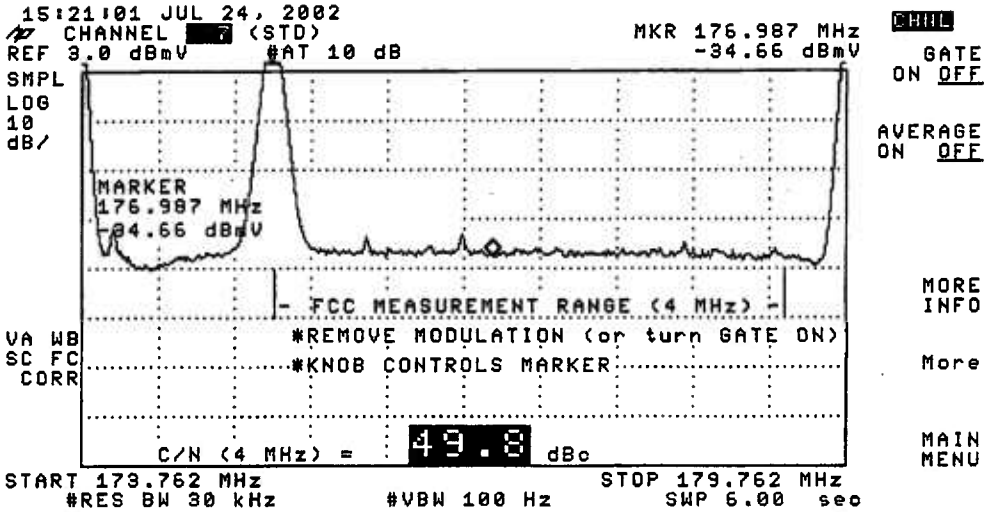

15:06:23 JUL 24, 2002
CHANNEL 36 (STD)
REF 6.4 dBmV
#AT 0 dB
MKR 297.465 MHz
-.34 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 294.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 300.000 MHz
SWP 20.0 msec

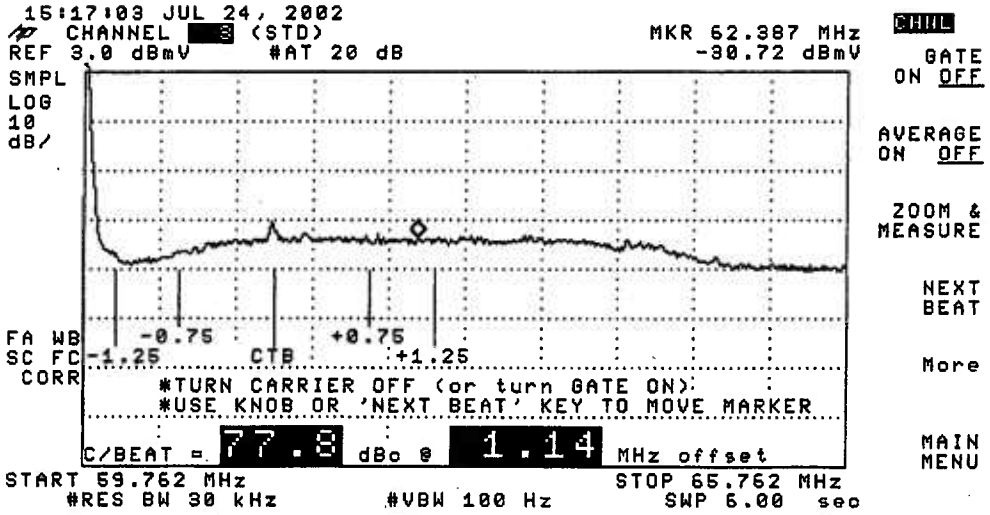

15:07:44 JUL 24, 2002
CHANNEL 43 (STD)
REF 9.9 dBmV
#AT 0 dB
MKR 340.110 MHz
-2.85 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 336.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 342.000 MHz
SWP 20.0 mseo

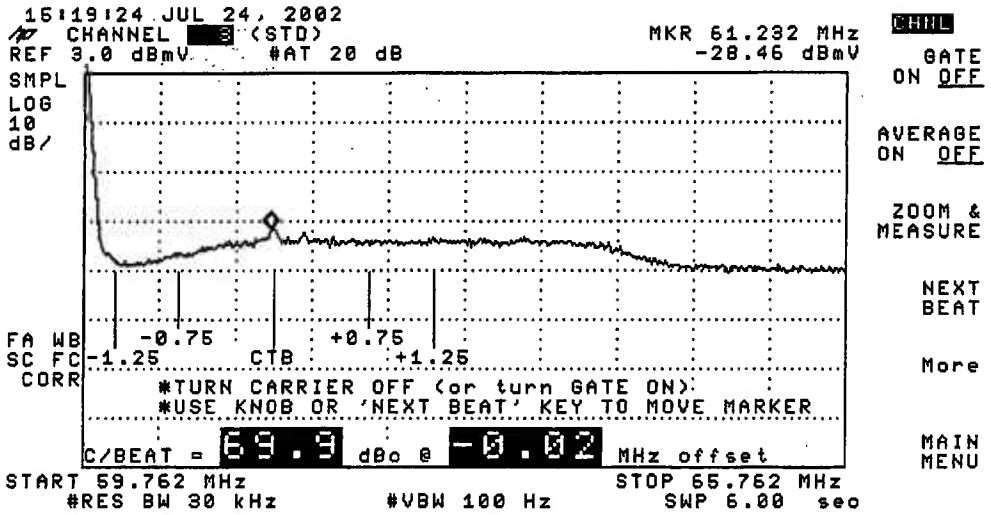

15:10:57 JUL 24, 2002
CHANNEL 47 (STD)
REF 4.5 dBmV
#AT 0 dB
MKR 364.695 MHz
-2.45 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 360.000 MHz
STOP 366.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec


15:12:17 JUL 24, 2002
CHANNEL 55 (STD)
REF 4.2 dBmV
#AT 0 dB
MKR 411.105 MHz
-3.13 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 408.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 414.000 MHz
SWP 20.0 msec


15:13:26 JUL 24, 2002
CHANNEL 70 (STD)
REF 5.3 dBmV
#AT 0 dB
MKR 502.245 MHz
-.70 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.4 dB
MAIN
MENU
START 498.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 504.000 MHz
SWP 20.0 msec


15:21:01 JUL 24, 2002
CHANNEL [redacted] (STD)
REF 3.0 dBmV
#AT 10 dB
MKR 176.987 MHz
-34.66 dBmV
CHNL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
MARKER
176.987 MHz
-34.66 dBmV
- FCC MEASUREMENT RANGE (4 MHz) -
MORE
INFO
VA WB
SC FC
CORR
*REMOVE MODULATION (or turn GATE ON)
*KNOB CONTROLS MARKER
More
C/N (4 MHz) =
49.8
dBc
MAIN
MENU
START 173.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 6.00 sec


15:17:03 JUL 24, 2002
CHANNEL 3 (STD)
REF 3.0 dBmV
#AT 20 dB
MKR 62.387 MHz
-30.72 dBmV
CHNL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
More
#TURN CARRIER OFF (or turn GATE ON)
#USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 77.8 dBc @ 1.14 MHz offset
MAIN
MENU
START 59.762 MHz
STOP 65.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
SWP 6.00 sec


15:19:24 JUL 24, 2002
CHANNEL 3 (STD)
REF 3.0 dBmV #AT 20 dB
MKR 61.232 MHz
-28.46 dBmV
CHNL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
FA WB -0.75 +0.75
SC FC -1.25 CTB +1.25
CORR
More
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 69.9 dBo @ -0.02 MHz offset
MAIN
MENU
START 59.762 MHz
STOP 65.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
SWP 6.00 sec

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location NORTH ST., CLEVELAND

Date: AUG. 7, 2002 Performed by MARK D'AOUST

Meter Serial Number: CALAN 3010#US37241488

Chan	Freq (MHz)	Temp °F 69	75	74	70	Max Variation	Chan	Freq (MHz)	Temp °F 69	75	74	70	Max Variation
		Time 08:30	14:30	20:30	02:30				Time 08:30	14:30	20:30	02:30	
		Visual Level (dbmv)							Visual Level (dbmv)				
2	55.2500	24.0	23.6	24.2	24.7	1.1	AA	301.2625	22.6	22.2	22.8	23.1	0.9
3	61.2500	24.2	24.0	23.9	24.8	0.9	BB	307.2625	21.9	21.4	21.5	22.5	1.1
4	67.2500	24.3	23.6	24.4	24.5	0.9	CC	313.2625	22.0	21.8	22.2	22.6	0.8
5	77.2500	24.2	24.1	24.5	25.0	0.9	DD	319.2625	21.7	21.2	21.5	21.9	0.7
6	83.2500	24.0	23.5	23.7	24.3	0.8	EE	325.2625	20.5	20.3	21.2	21.5	1.2
							FF	331.2750	21.3	20.8	21.1	22.1	1.3
							GG	337.2625	21.4	20.9	21.3	21.9	1.0
A-5	91.2500	24.5	24.0	24.3	25.3	1.3	HH	343.2625	21.4	20.2	21.3	22.1	1.9
A-4	97.2500	24.4	23.8	24.3	25.0	1.2	II	349.2625	21.1	18.1	20.7	21.4	3.3
A-3	103.2500						JJ	355.2625	21.4	20.1	21.0	21.7	1.6
A-2	109.2750						KK	361.2625	20.8	20.1	20.6	21.3	1.2
A-1	115.2750	22.1	21.4	21.8	20.9	1.2	LL	367.2625	22.8	22.0	21.6	23.2	1.6
A	121.2625	22.2	21.9	22.3	22.8	0.9	MM	373.2625	20.3	19.8	19.0	20.9	1.9
B	127.2625	23.2	22.8	23.3	23.7	0.9	NN	379.2625	20.1	19.9	19.5	20.7	1.2
C	133.2625	22.5	22.1	22.5	22.8	0.7	OO	385.2625	19.6	19.4	19.7	20.2	0.8
D	139.2500	22.5	22.0	22.5	23.1	1.1	PP	391.2625	17.5	19.5	19.9	20.5	3.0
E	145.2500	22.3	22.0	22.5	23.0	1.0	QQ	397.2625	18.6	19.2	19.7	20.1	1.5
F	151.2500	21.6	21.3	21.8	22.3	1.0	RR	403.2500	19.9	19.5	19.9	20.7	1.2
G	157.2500	22.3	22.2	22.6	23.1	0.9	SS	409.2500	19.8	19.3	19.8	20.3	1.0
H	163.2500	22.4	22.1	22.8	23.3	1.2	TT	415.2500	19.8	19.2	19.3	20.2	1.0
I	169.2500	22.4	21.6	22.5	22.8	1.2	UU	421.2500	19.6	18.8	19.5	19.8	1.0
7	175.2500	22.2	22.4	22.5	23.2	1.0	VV	427.2500	19.7	19.1	19.5	19.9	0.8
8	181.2500	21.9	21.8	22.2	22.9	1.1	WW	433.2500	19.8	19.2	19.5	19.9	0.7
9	187.2500	21.8	21.0	21.6	22.1	1.1	XX	439.2500	19.5	18.8	19.2	18.8	0.7
10	193.2500	23.0	22.7	22.9	23.7	1.0	YY	445.2500	21.0	20.4	20.9	18.4	2.6
11	199.2500	22.5	22.1	22.6	21.5	1.1	ZZ	451.2500	19.3	18.6	19.1	18.7	0.7
12	205.2500	20.7	20.4	20.5	21.6	1.2	63	457.2500	20.3	19.5	20.0	20.4	0.9
13	211.2500	21.3	20.9	21.2	21.8	0.9	64	463.2500	19.9	19.3	19.8	20.2	0.9
J	217.2500	21.3	21.0	21.2	21.8	0.8	65	469.2500	20.2	19.6	20.1	20.5	0.9
K	223.2500	21.5	21.3	21.6	22.1	0.8	66	475.2500	20.0	19.5	20.0	20.4	0.9
L	229.2625	21.0	20.7	20.9	21.5	0.8	67	481.2500	20.4	19.8	20.3	20.8	1.0
M	235.2625	22.0	21.7	22.0	22.5	0.8	68	487.2500	19.9	19.5	19.8	20.4	0.9
N	241.2625	22.0	21.8	22.0	22.5	0.7	69	493.2500	20.0	19.3	19.8	20.3	1.0
O	247.2625	22.9	22.7	22.9	23.3	0.6	70	499.2500	20.2	19.6	20.1	20.5	0.9
P	253.2625	21.8	21.5	21.8	22.1	0.6	71	505.2500	19.8	19.3	19.7	20.3	1.0
Q	259.2625	23.6	23.5	23.7	24.1	0.6	72	511.2500	20.4	19.7	20.2	20.7	1.0
R	265.2625	22.6	22.1	22.4	23.1	1.0	73	517.2500	19.7	19.2	19.5	20.3	1.1
S	271.2625	23.5	23.1	23.6	24.1	1.0	74	523.2500	19.7	19.2	19.6	20.4	1.2
T	277.2625	22.3	21.7	22.1	22.7	1.0	75	529.2500	20.1	19.3	19.9	20.7	1.4
U	283.2625	22.6	22.1	22.4	23.1	1.0	76	535.2500	20.0	19.6	19.9	20.5	0.9
V	289.2625	23.6	23.7	23.4	24.4	1.0	77	541.2500	19.1	18.9	19.2	19.7	0.8
W	295.2625	22.3	22.1	22.2	22.9	0.8	78	547.2500	19.4	18.9	19.3	19.9	1.0

Max NonAdjacent Channel Level Diff.	7
Max Adjacent Channel Level Diff.	2.6

Max Variance from last proof-of-performance test	4.1
Date of last proof-of-performance test	FEB. 14,2002

Note: Make measurements through a 100 ft. test drop cable without a converter.

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: ROME/ONEIDA

System Test Point # 2

Location: CROW HILL RD.

Community: BOUCKVILLE

Pole Number: 8

D.T. Value: 4/2

Map Number: 14915578

OR Number: 291

Trunk Cascade: 5 LE Cascade:

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **CROW HILL RD, BOUCKVILLE**

Date: 20-Aug-02

Time: 04:15 PM

Ch. #	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	S	Diff (Db)	Chan	Freq (MHz)	Visual Level dBmV	Aural Level (dBmV)	S	Diff (Db)
2	55.2500	13.5	0.5		13.0	AA	301.2625	11.4	-2.7		14.1
3	61.2500	13.9	-0.3		14.2	BB	307.2625	10.6	-3.9		14.5
4	67.2500	14.6	0.7		13.9	CC	313.2625	9.2	-4.9		14.1
5	77.2500	14.1	0.9		13.2	DD	319.2625	10.1	-4.2		14.3
6	83.2500	14.0	0.6		13.4	EE	325.2625	8.7	-4.1		12.8
						FF	331.2750	9.8	-3.6		13.4
						GG	337.2625	9.3	-5.6	S	14.9
A-5	91.2500	15.2	0.8	S	14.4	HH	343.2625	9.5	-3.9		13.4
A-4	97.2500	15.6	1.0		14.6	II	349.2625	9.3	-3.8		13.1
A-3	103.2500					JJ	355.2625	9.6	-3.8		13.4
A-2	109.2750					KK	361.2625	9.5	-3.9		13.4
A-1	115.2750	13.3	0.9	S	12.4	LL	367.2625	11.6	-1.2		12.8
A	121.2625	14.8	2.0		12.8	MM	373.2625	9.4	-5.5		14.9
B	127.2625	14.9	1.0		13.9	NN	379.2625	8.9	-4.2		13.1
C	133.2625	14.5	1.0		13.5	OO	385.2625	9.2	-1.2		10.4
D	139.2500	14.4	1.0		13.4	PP	391.2625	8.3	-7.7	S	16.0
E	145.2500	14.2	0.4		13.8	QQ	397.2625	8.3	-4.8	S	13.1
F	151.2500	13.9	-0.6		14.5	RR	403.2500	8.1	-6.9	S	15.0
G	157.2500	14.6	-0.4		15.0	SS	409.2500	7.6	-7.2	S	14.8
H	163.2500	15.5	0.6		14.9	TT	415.2500	7.8	-5.4		13.2
I	169.2500	14.3	-0.1		14.4	UU	421.2500	7.3	-3.5	S	10.8
7	175.2500	14.1	0.2		13.9	VV	427.2500	7.6	-6.2		13.8
8	181.2500	12.8	-1.2		14.0	WW	433.2500	7.7	-6.2	S	13.9
9	187.2500	11.9	-1.8		13.7	XX	439.2500	8.1	-7.9	S	16.0
10	193.2500	12.0	-1.6		13.6	YY	445.2500	10.4	-3.3		13.7
11	199.2500	13.1	-1.4		14.5	ZZ	451.2500	8.3	-7.3	S	15.6
12	205.2500	11.0	-5.4		16.4	63	457.2500	8.7	-6.0	S	14.7
13	211.2500	11.9	-1.7		13.6	64	463.2500	8.8	-6.5	S	15.3
J	217.2500	11.4	-1.1		12.5	65	469.2500	8.9	-5.9	S	14.8
K	223.2500	12.5	-1.5		14.0	66	475.2500	8.9	-5.3	S	14.2
L	229.2625	11.4	-4.5	S	15.9	67	481.2500	9.2	-5.2	S	14.4
M	235.2625	13.1	-0.9		14.0	68	487.2500	8.4	-5.4	S	13.8
N	241.2625	12.0	-2.0		14.0	69	493.2500	8.6	-6.0	S	14.6
O	247.2625	14.0	1.5		12.5	70	499.2500	8.3	-5.2	S	13.5
P	253.2625	12.1	-1.4		13.5	71	505.2500	8.5	-6.0	S	14.5
Q	259.2625	14.4	0.8		13.6	72	511.2500	8.9	-5.0	S	13.9
R	265.2625	12.3	-2.2		14.5	73	517.2500	8.5	-6.1	S	14.6
S	271.2625	13.8	0.4		13.4	74	523.2500	8.1	-6.3	S	14.4
T	277.2625	12.3	0.8		11.5	75	529.2500	9.0	-5.5	S	14.5
U	283.2625	11.8	-2.2		14.0	76	535.2500	9.5	-3.7	S	13.2
V	289.2625	13.7	0.9		12.8	77	541.2500	9.0	-5.6	S	14.6
W	295.2625	11.3	-1.9		13.2	78	547.2500	9.6	-5.5	S	15.1

PEAK TO VALLEY: 8.3

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

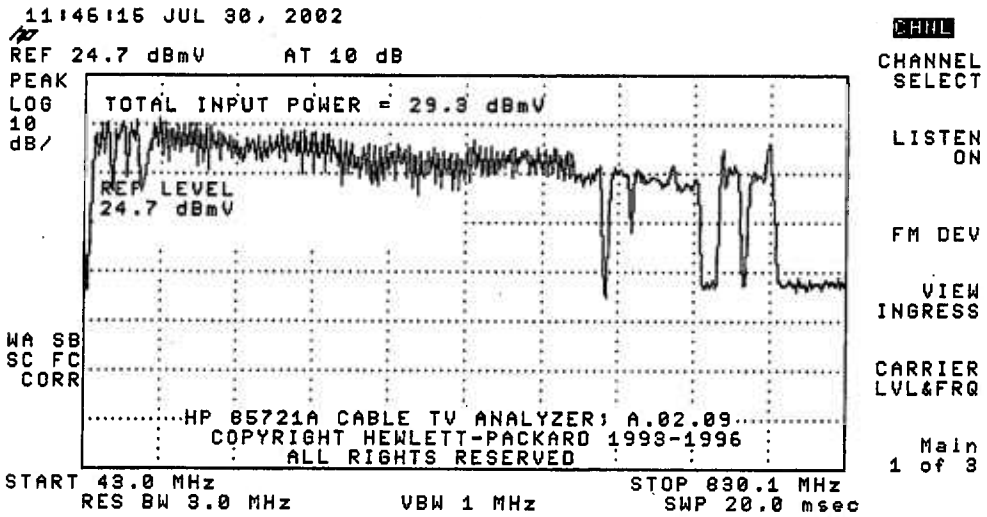
System Name: TIME WARNER ROME/ONEIDA **Date:** JULY 30,2002

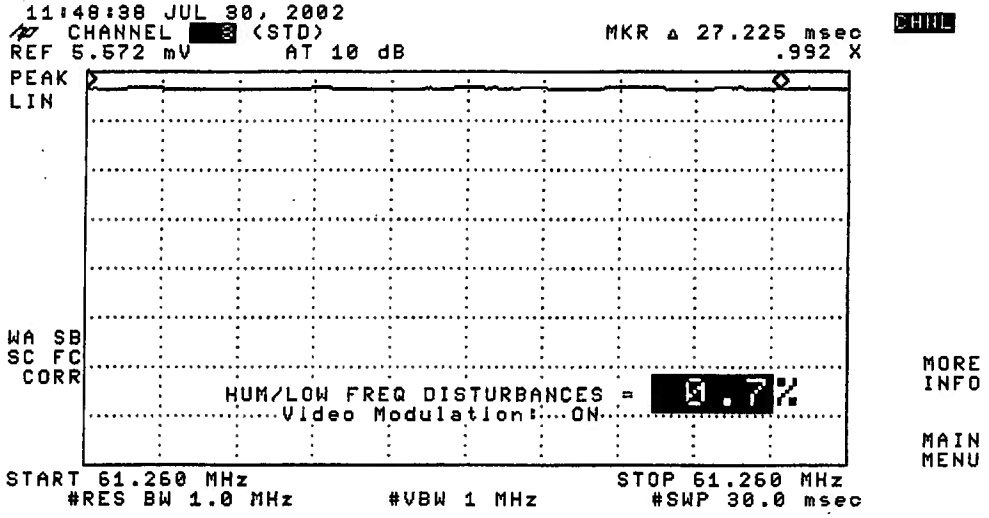
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: CROW HILL RD. BOUCKVILLE

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (+/- dB)	Carrier to Noise Ratio (dB)	Distortions (-dBc)			Hum (%)
			CTB	CSO	XMOD	
3	0.20	47.0	60.3	76.2		0.7
19	0.60	48.1	60.8	75.0		
7	0.20	49.3	60.5	75.2		
31	0.30	48.9	60.2	74.2		
36	0.20	48.1	60.8	73.8		
43	0.10	47.1	60.2	69.1		
47	0.10	48.5	59.9	67.8		
55	0.20	47.3	59.8	64.7		
70	0.20	47.8	60.3	63.4		


11:46:15 JUL 30, 2002
REF 24.7 dBmV
AT 10 dB
PEAK
LOG
10
dB/
TOTAL INPUT POWER = 29.3 dBmV
REF LEVEL
24.7 dBmV
WA SB
SC FC
CORR
HP 85721A CABLE TV ANALYZER; A.02.09
COPYRIGHT HEWLETT-PACKARD 1993-1996
ALL RIGHTS RESERVED
START 43.0 MHz
STOP 830.1 MHz
RES BW 3.0 MHz
VBW 1 MHz
SWP 20.0 msec
CHNL
CHANNEL SELECT
LISTEN ON
FM DEV
VIEW INGRESS
CARRIER LVL&FRQ
Main
1 of 3


11:48:38 JUL 30, 2002
CHANNEL 3 (STD)
REF 5.572 mV
AT 10 dB
MKR Δ 27.225 msec
.992 X
CHNL
PEAK
LIN
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.7%
Video Modulation: ON
MORE
INFO
MAIN
MENU
START 61.260 MHz
#RES BW 1.0 MHz
#VBW 1 MHz
STOP 61.260 MHz
#SWP 30.0 msec

Time Warner Cable
Syracuse Division

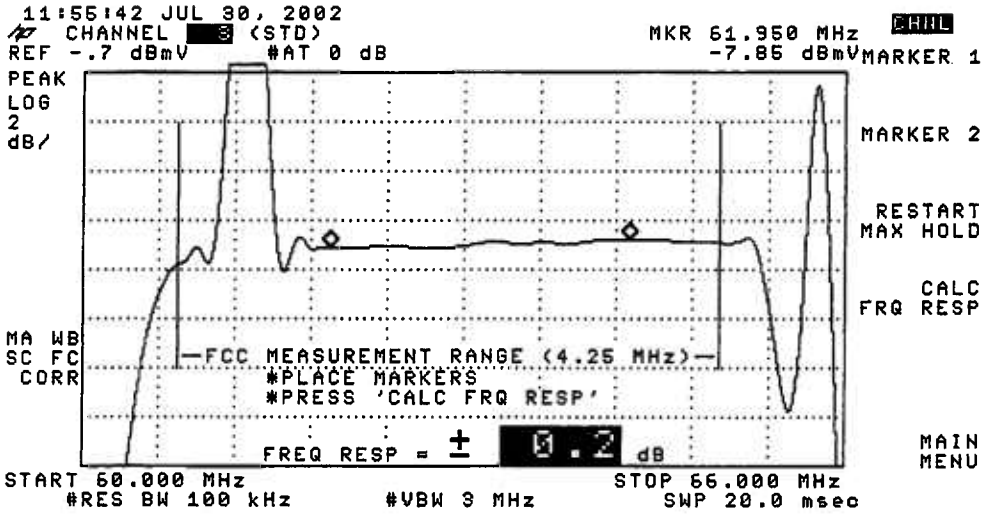
IN - CHANNEL FREQUENCY RESPONSE TEST

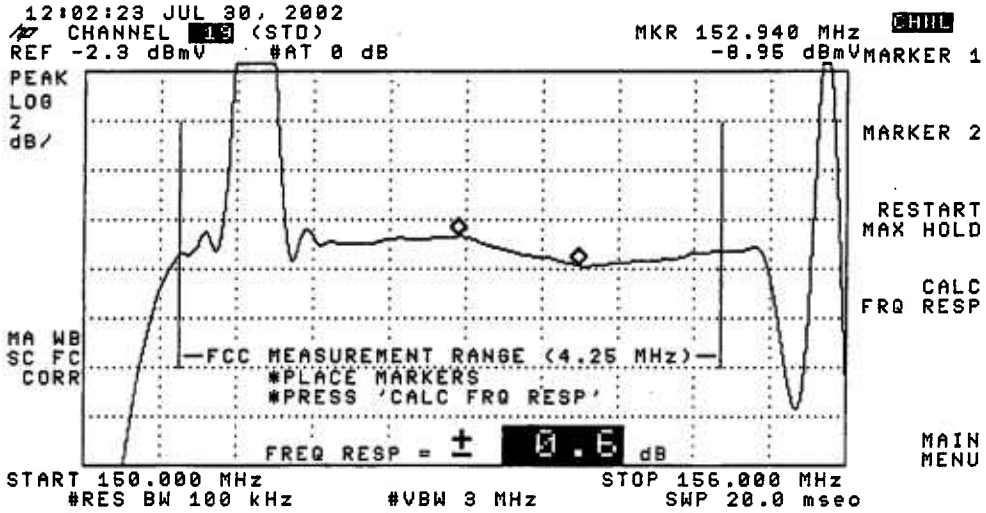
(76.605 (a) 6)

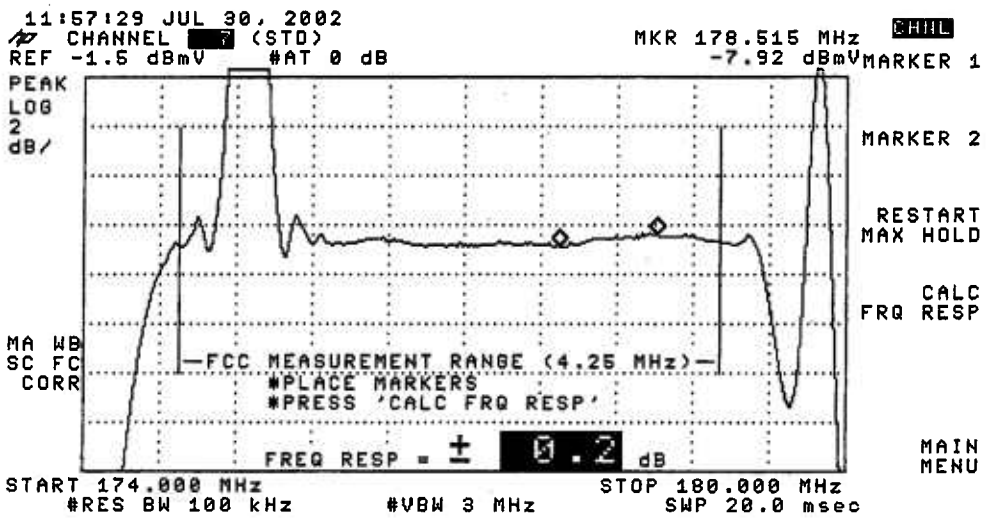
System Name: ROME/ONEIDA Date: AUGUST 22,2002

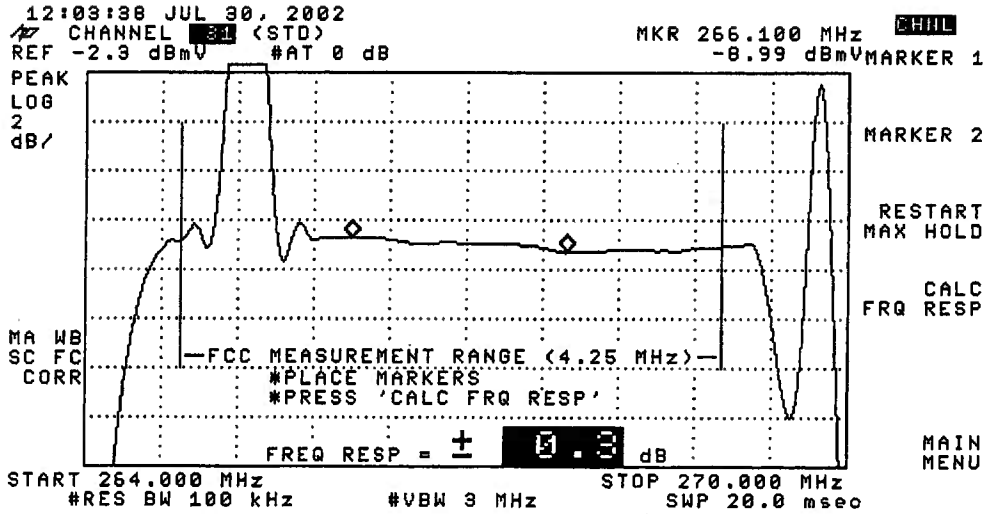
Test Performed By: MARK D'AOUST/JOEL MARMON Location: CROW HILL RD.

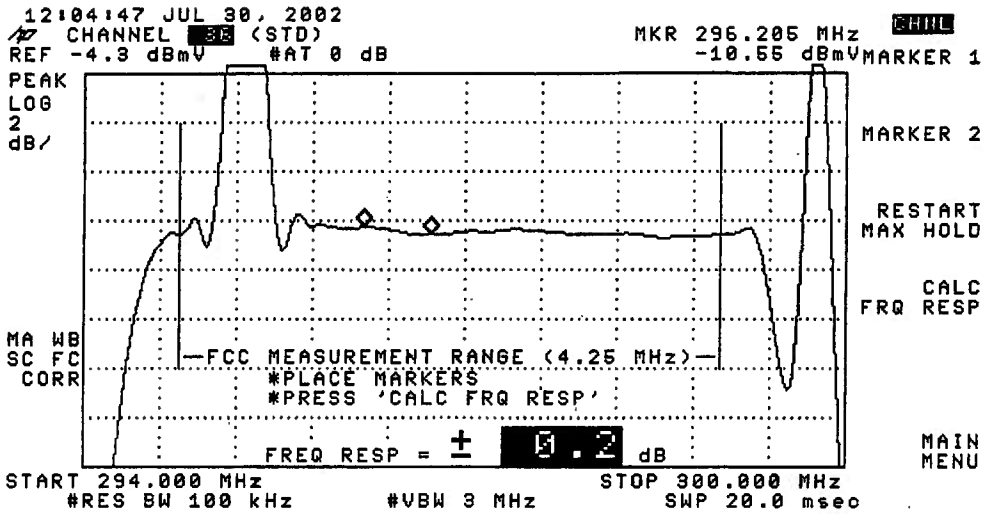
(SEE THE ATTATCHED SWEEP TRACES)

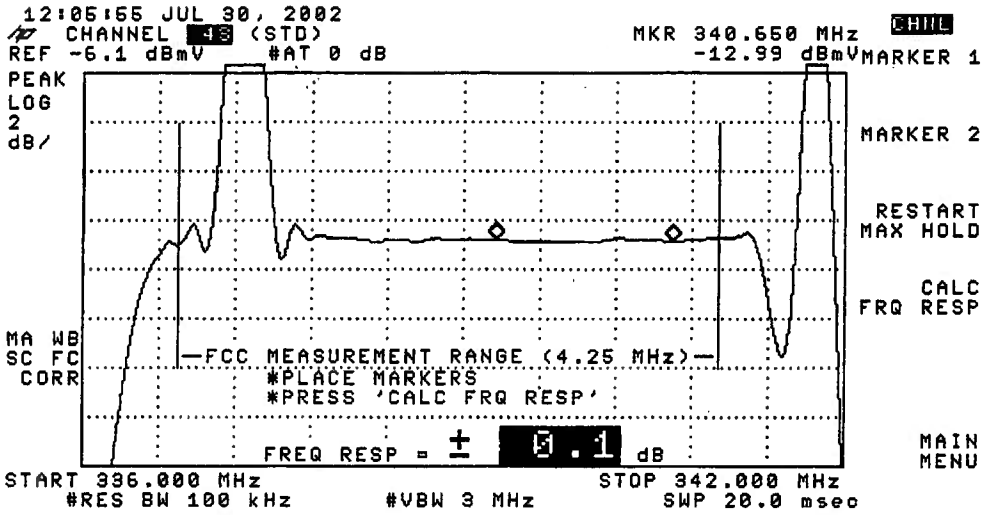

11:55:42 JUL 30, 2002
CHANNEL 3 (STD)
REF -.7 dBmV
#AT 0 dB
MKR 61.950 MHz
-7.85 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

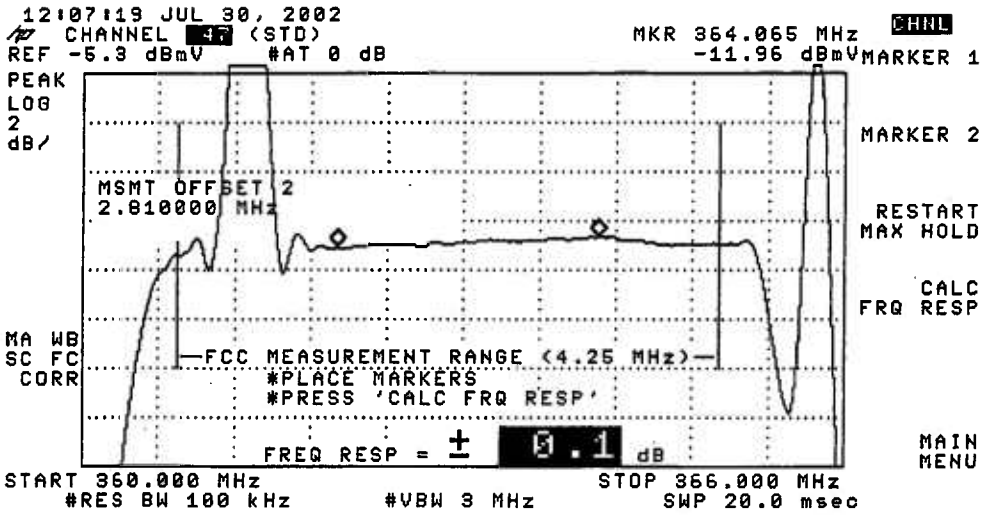

12:02:23 JUL 30, 2002
CHANNEL 13 (STD)
REF -2.3 dBmV
#AT 0 dB
MKR 152.940 MHz
-8.95 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.6 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 156.000 MHz
SWP 20.0 mseo

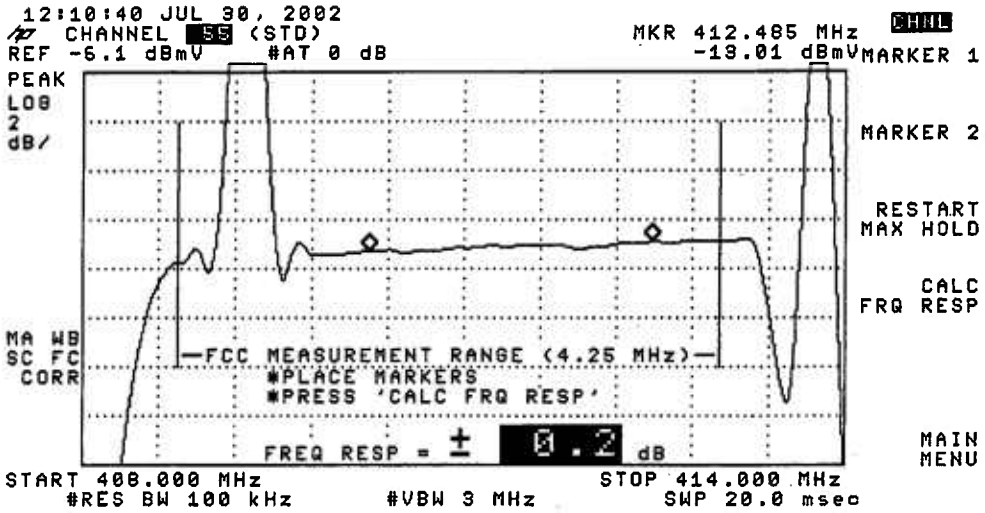

11:57:29 JUL 30, 2002
CHANNEL 7 (STD)
REF -1.5 dBmV
#AT 0 dB
MKR 178.515 MHz
-7.92 dBmV
CHHL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 174.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 180.000 MHz
SWP 20.0 msec

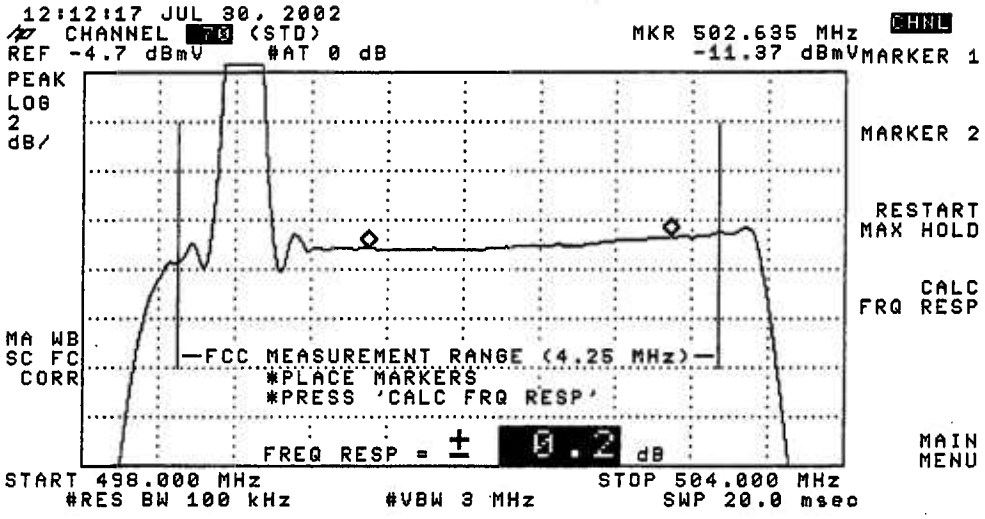

12:03:38 JUL 30, 2002
CHANNEL 31 (STD)
REF -2.3 dBmV
#AT 0 dB
MKR 266.100 MHz
-8.99 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 264.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 270.000 MHz
SWP 20.0 msec

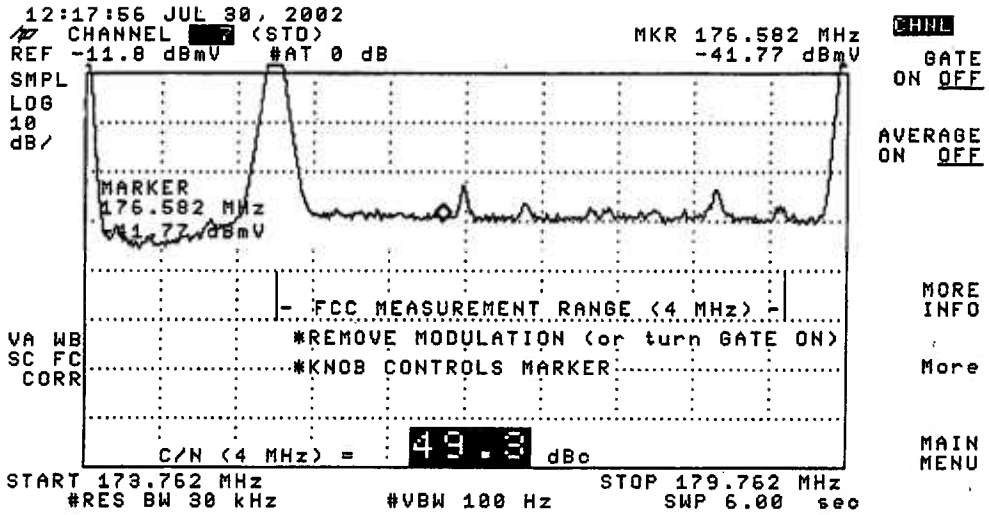

12:04:47 JUL 30, 2002
CHANNEL 38 (STD)
REF -4.3 dBmV
#AT 0 dB
MKR 296.205 MHz
-10.55 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 5.2 dB
MAIN
MENU
START 294.000 MHz
STOP 300.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec

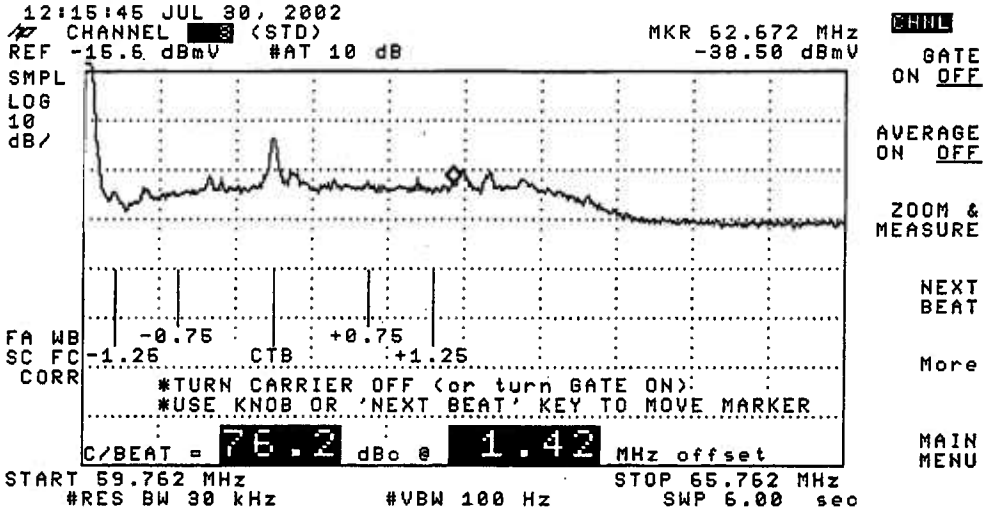

12:05:55 JUL 30, 2002
CHANNEL 43 (STD)
REF -6.1 dBmV
#AT 0 dB
MKR 340.650 MHz
-12.99 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 336.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 342.000 MHz
SWP 20.0 msec

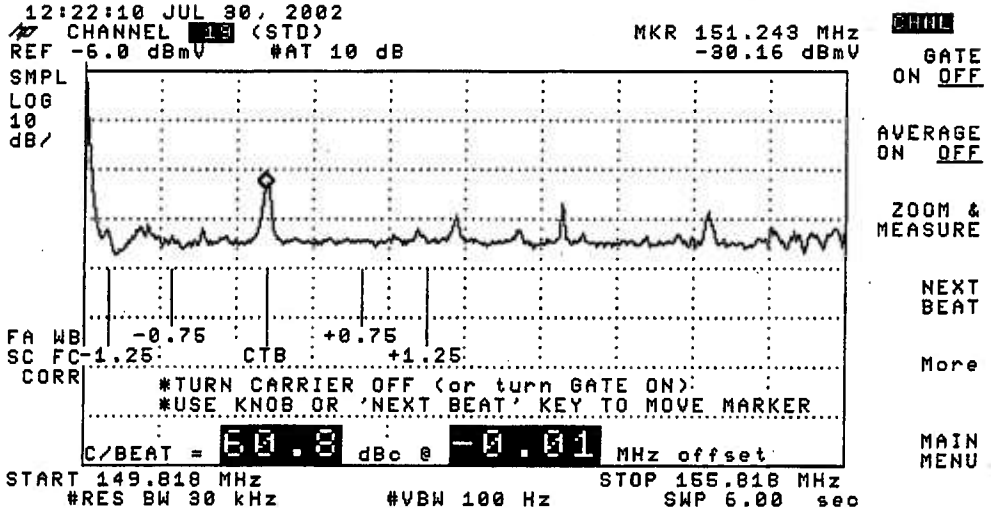

12:07:19 JUL 30, 2002
CHANNEL 47 (STD)
REF -5.3 dBmV
#AT 0 dB
MKR 364.065 MHz
-11.96 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
MSMT OFFSET 2
2.810000 MHz
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 360.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 366.000 MHz
SWP 20.0 msec


12:10:40 JUL 30, 2002
CHANNEL 55 (STD)
REF -6.1 dBmV
#AT 0 dB
MKR 412.485 MHz
-13.01 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 408.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 414.000 MHz
SWP 20.0 msec


12:12:17 JUL 30, 2002
CHANNEL 70 (STD)
REF -4.7 dBmV
#AT 0 dB
MKR 502.635 MHz
-11.37 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 498.000 MHz
STOP 504.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec


12:17:56 JUL 30, 2002
CHANNEL [redacted] (STD)
REF -11.8 dBmV
#AT 0 dB
MKR 176.582 MHz
-41.77 dBmV
CHNL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
MARKER
176.582 MHz
-41.77 dBmV
- FCC MEASUREMENT RANGE (4 MHz) -
MORE
INFO
VA WB
SC FC
CORR
*REMOVE MODULATION (or turn GATE ON)
*KNOB CONTROLS MARKER
More
C/N (4 MHz) = 49.3 dBc
MAIN
MENU
START 173.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 6.00 sec


12:15:45 JUL 30, 2002
CHANNEL 3 (STD)
REF -15.6 dBmV #AT 10 dB
MKR 62.672 MHz
-38.50 dBmV
CHNL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
More
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 76.2 dBc @ 1.42 MHz offset
MAIN
MENU
START 59.762 MHz
STOP 65.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
SWP 6.00 sec


12:22:10 JUL 30, 2002
CHANNEL 13 (STD)
REF -6.0 dBmV
#AT 10 dB
MKR 151.243 MHz
-30.16 dBmV
CHNL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
More
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 60.8 dBc @ -0.01 MHz offset
MAIN
MENU
START 149.818 MHz
STOP 155.818 MHz
#RES BW 30 kHz
#VBW 100 Hz
SWP 6.00 sec

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location CROW HILL RD, BOUCKVILLE

Date: AUG. 20, 2002 Performed by MARK D'AOUST

Meter Serial Number CALAN 3010#US37241488

Chan	Freq (MHz)	Temp F 72 / Time 10:15	Temp F 75 / Time 16:15	Temp F 71 / Time 22:15	Temp F 70 / Time 04:15	Max Variation
		Visual Level (dbmV)				
2	55.2500	14.2	13.5	14.3	14.7	1.2
3	61.2500	14.0	13.9	14.3	14.6	0.7
4	67.2500	14.9	14.6	15.1	15.5	0.9
5	77.2500	14.3	14.1	14.5	14.8	0.7
6	83.2500	14.6	14.0	14.5	14.9	0.9
A-5	91.2500	15.5	15.2	15.8	15.9	0.7
A-4	97.2500	15.7	15.6	15.9	15.9	0.3
A-3	103.2500					
A-2	109.2750					
A-1	115.2750	14.5	13.3	15.2	15.7	2.4
A	121.2625	14.8	14.8	15.2	15.3	0.5
B	127.2625	14.7	14.9	15.2	15.3	0.6
C	133.2625	14.7	14.5	15.0	15.1	0.6
D	139.2500	14.4	14.4	14.6	14.9	0.5
E	145.2500	14.7	14.2	14.9	14.8	0.7
F	151.2500	14.2	13.9	14.4	14.3	0.5
G	157.2500	14.9	14.6	15.2	15.1	0.6
H	163.2500	15.3	15.5	15.9	15.9	0.6
I	169.2500	14.3	14.3	14.8	14.9	0.6
7	175.2500	14.6	14.1	14.9	15.1	1.0
8	181.2500	13.0	12.8	13.2	13.2	0.4
9	187.2500	12.5	11.9	12.7	12.8	0.9
10	193.2500	12.2	12.0	12.3	12.7	0.7
11	199.2500	13.0	13.1	13.5	12.0	1.5
12	205.2500	11.0	11.0	11.6	11.4	0.6
13	211.2500	12.1	11.9	12.3	12.2	0.4
J	217.2500	11.9	11.4	12.2	12.3	0.9
K	223.2500	12.4	12.5	12.7	13.0	0.6
L	229.2625	11.5	11.4	11.8	12.0	0.6
M	235.2625	13.0	13.1	13.6	13.4	0.6
N	241.2625	13.3	14.0	14.0	14.0	0.7
O	247.2625	14.0	14.0	15.6	15.3	1.6
P	253.2625	12.2	12.1	13.0	13.0	0.9
Q	259.2625	14.4	14.4	14.9	15.0	0.6
R	265.2625	12.2	12.3	12.8	13.1	0.9
S	271.2625	14.0	13.8	14.4	14.7	0.9
T	277.2625	12.3	12.3	12.6	12.9	0.6
U	283.2625	12.0	11.8	12.3	12.6	0.8
V	289.2625	13.8	13.7	14.2	14.0	0.5
W	295.2625	11.7	11.3	11.9	12.2	0.9

Chan	Freq (MHz)	Temp F 72 / Time 10:15	Temp F 75 / Time 16:15	Temp F 71 / Time 22:15	Temp F 70 / Time 04:15	Max Variation
		Visual Level (dbmV)				
AA	301.2625	11.6	11.4	12.0	12.2	0.8
BB	307.2625	10.8	10.6	11.3	11.7	1.1
CC	313.2625	10.0	9.2	10.0	10.1	0.9
DD	319.2625	10.5	10.1	10.6	10.8	0.7
EE	325.2625	10.0	8.7	10.2	9.9	1.5
FF	331.2750	9.8	9.8	10.4	10.5	0.7
GG	337.2625	9.6	9.3	10.0	10.1	0.8
HH	343.2625	10.0	9.5	10.0	10.2	0.7
II	349.2625	9.7	9.3	9.9	10.0	0.7
JJ	355.2625	10.1	9.6	10.4	10.4	0.8
KK	361.2625	10.0	9.5	10.1	10.2	0.7
LL	367.2625	11.9	11.6	12.4	12.4	0.8
MM	373.2625	9.7	9.4	10.0	10.1	0.7
NN	379.2625	9.0	8.9	9.8	9.8	0.9
OO	385.2625	9.6	9.2	9.7	9.6	0.5
PP	391.2625	8.9	8.3	9.1	9.1	0.8
QQ	397.2625	8.6	8.3	9.1	8.8	0.8
RR	403.2500	8.6	8.1	8.7	9.1	1.0
SS	409.2500	8.2	7.6	8.4	8.3	0.8
TT	415.2500	7.8	7.8	8.0	8.0	0.2
UU	421.2500	7.5	7.3	7.9	7.8	0.6
VV	427.2500	7.8	7.6	8.4	8.2	0.8
WW	433.2500	8.1	7.7	8.4	8.4	0.7
XX	439.2500	8.5	8.1	8.8	8.9	0.8
YY	445.2500	10.8	10.4	11.2	11.1	0.8
ZZ	451.2500	8.9	8.3	9.2	9.2	0.9
63	457.2500	9.2	8.7	9.6	9.6	0.9
64	463.2500	9.4	8.8	9.5	9.5	0.7
65	469.2500	9.4	8.9	10.0	9.5	1.1
66	475.2500	9.2	8.9	9.8	9.5	0.9
67	481.2500	9.6	9.2	10.0	10.2	1.0
68	487.2500	9.0	8.4	9.3	9.2	0.9
69	493.2500	9.2	8.6	9.6	9.4	1.0
70	499.2500	8.8	8.3	9.1	8.8	0.8
71	505.2500	9.1	8.5	9.5	9.0	1.0
72	511.2500	9.4	8.9	9.5	9.3	0.6
73	517.2500	9.1	8.5	9.3	9.0	0.8
74	523.2500	8.6	8.1	9.1	9.0	1.0
75	529.2500	9.5	9.0	9.7	9.4	0.7
76	535.2500	9.9	9.5	10.5	9.9	1.0
77	541.2500	9.4	9.0	9.7	9.2	0.7
78	547.2500	10.2	9.6	10.3	9.8	0.7

Max NonAdjacent Channel Level Diff.	8.3
Max Adjacent Channel Level Diff.	2.6

Max Variance from last proof-of-performance test	2.4
Date of last proof-of-performance test	N/A

Note: Make measurements through a 100 ft. test drop cable without a converter.

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

System Test Point # 3

Location: PRESTON HILL RD.

Community: VILLAGE OF HAMILTON

Pole Number: NM/18

D.T. Value: 4/2

Map Number: 362-5718

OR Number: 972

Trunk Cascade: 5 LE Cascade: 0

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **PRESTON HILL ROAD**

Date: 09-Aug-02

Time: 11:15 AM

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra IS	Diff (Dbmv)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra IS	Diff (Dbmv)
2	55.2500	15.9	2.4		13.5	AA	301.2625	14.5	-0.2		14.7
3	61.2500	16.9	2.9		14.0	BB	307.2625	14.0	-0.9		14.9
4	67.2500	17.1	2.9		14.2	CC	313.2625	13.8	-0.5		14.3
5	77.2500	16.0	2.9		13.1	DD	319.2625	13.0	-0.7		13.7
6	83.2500	16.0	2.3		13.7	EE	325.2625	12.1	-1.0		13.1
						FF	331.2750	13.4	-0.5		13.9
						GG	337.2625	12.9	-2.1	S	15.0
A-5	91.2500	16.8	2.3	S	14.5	HH	343.2625	13.0	-0.9		13.9
A-4	97.2500	17.2	2.7		14.5	II	349.2625	12.7	-1.3		14.0
A-3	103.2500					JJ	355.2625	12.7	-1.4		14.1
A-2	109.2750					KK	361.2625	12.7	-1.0		13.7
A-1	115.2750	15.2	1.7	S	13.5	LL	367.2625	14.8	0.9		13.9
A	121.2625	15.9	3.1		12.8	MM	373.2625	12.4	-2.2		14.6
B	127.2625	16.7	2.5		14.2	NN	379.2625	12.5	-1.6		14.1
C	133.2625	15.6	2.2		13.4	OO	385.2625	12.7	-2.7	S	15.4
D	139.2500	15.6	1.1	S	14.5	PP	391.2625	12.3	-4.1	S	16.4
E	145.2500	15.2	2.1		13.1	QQ	397.2625	12.4	-1.6	S	14.0
F	151.2500	15.5	1.0		14.5	RR	403.2500	12.1	-2.7	S	14.8
G	157.2500	16.7	1.6		15.1	SS	409.2500	11.9	-3.5	S	15.4
H	163.2500	17.5	2.5		15.0	TT	415.2500	11.4	-1.8		13.2
I	169.2500	16.3	2.0		14.3	UU	421.2500	11.5	0.0	S	11.5
7	175.2500	16.6	2.9		13.7	VV	427.2500	11.8	-2.7		14.5
8	181.2500	16.7	2.8		13.9	WW	433.2500	11.5	-2.9	S	14.4
9	187.2500	16.2	2.3		13.9	XX	439.2500	11.8	-4.3	S	16.1
10	193.2500	17.3	3.3		14.0	YY	445.2500	13.4	-0.8		14.2
11	199.2500	15.0	0.0		15.0	ZZ	451.2500	11.7	-4.3	S	16.0
12	205.2500	15.0	-0.1		15.1	63	457.2500	12.0	-3.4	S	15.4
13	211.2500	15.7	1.7		14.0	64	463.2500	11.5	-3.8	S	15.3
J	217.2500	15.3	2.3		13.0	65	469.2500	11.4	-4.0	S	15.4
K	223.2500	16.1	1.5		14.6	66	475.2500	11.0	-3.2	S	14.2
L	229.2625	15.1	-1.0	S	16.1	67	481.2500	11.6	-2.9	S	14.5
M	235.2625	16.5	2.5		14.0	68	487.2500	11.5	-3.1	S	14.6
N	241.2625	17.0	2.6		14.4	69	493.2500	10.8	-3.8	S	14.6
O	247.2625	18.5	5.1		13.4	70	499.2500	10.9	-3.0	S	13.9
P	253.2625	15.7	1.4		14.3	71	505.2500	10.8	-3.5	S	14.3
Q	259.2625	17.1	3.8		13.3	72	511.2500	11.0	-2.5	S	13.5
R	265.2625	15.7	0.8		14.9	73	517.2500	10.9	-4.4	S	15.3
S	271.2625	16.9	3.1		13.8	74	523.2500	10.2	-3.9	S	14.1
T	277.2625	16.2	4.5		11.7	75	529.2500	11.3	-3.9	S	15.2
U	283.2625	15.1	0.8		14.3	76	535.2500	11.6	-1.9	S	13.5
V	289.2625	16.6	3.5		13.1	77	541.2500	10.4	-3.3	S	13.7
W	295.2625	14.8	1.5		13.3	78	547.2500	11.0	-3.7	S	14.7

PEAK TO VALLEY: 8.3

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

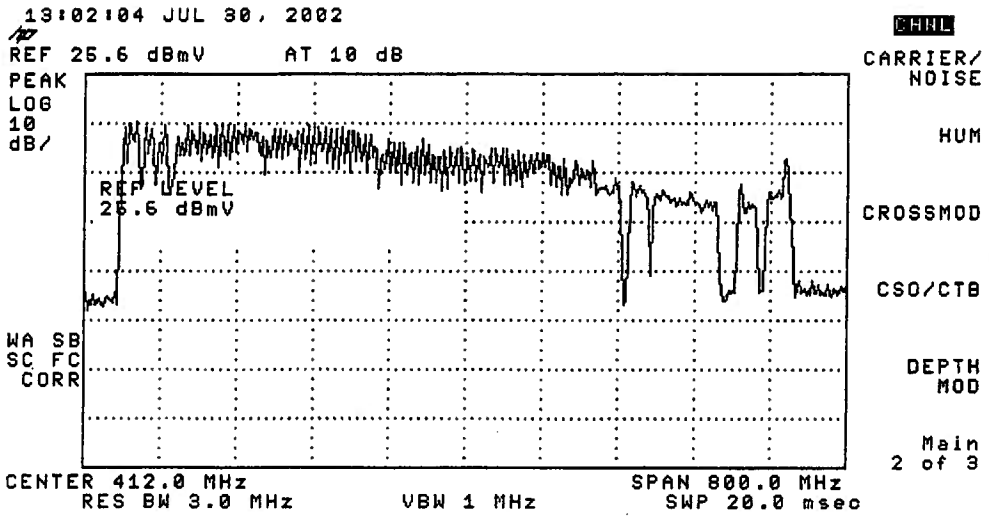
System Name: TIME WARNER ROME/ONEIDA **Date:** JULY 30,2002

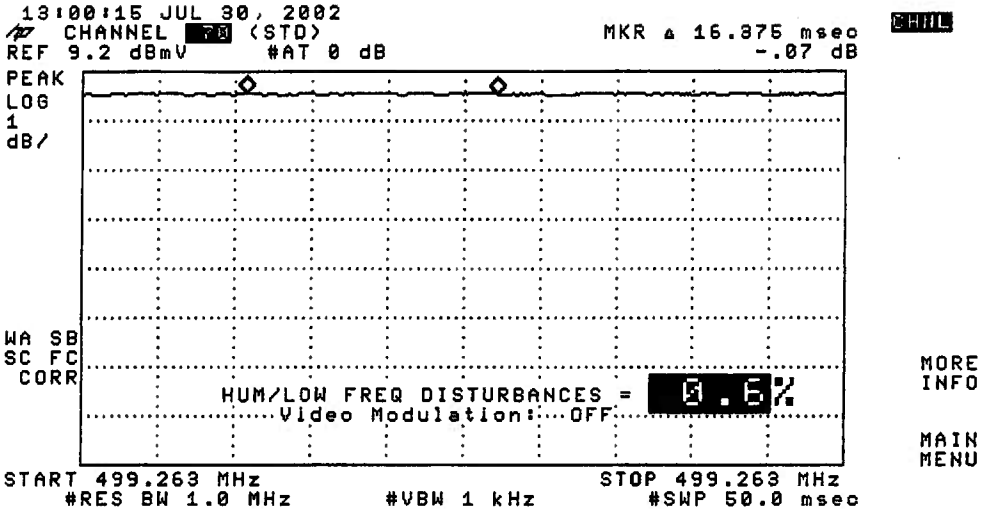
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: PRESTON HILL RD HAMILTON

Note: Make measurements through a 100 ft. test drop cable without converter.

3	0.10	47.3	60.2	70.9		
19	0.30	48.5	59.0	70.7		
7	0.50	49.4	60.0	70.1		
31	0.30	48.8	58.9	73.2		
36	0.20	48.0	59.1	73.7		
43	0.10	47.1	59.2	71.6		
47	0.10	47.3	59.0	71.0		
55	0.20	46.7	59.1	69.2		
70	0.30	47.7	60.2	70.5		0.6


13:02:04 JUL 30, 2002
REF 25.6 dBmV
AT 10 dB
CHNL
CARRIER/
NOISE
PEAK
LOG
10
dB/
HUM
REF LEVEL
25.6 dBmV
CROSSMOD
CSO/CTB
WA SB
SC FC
CORR
DEPTH
MOD
Main
2 of 3
CENTER 412.0 MHz
SPAN 800.0 MHz
RES BW 3.0 MHz
VBW 1 MHz
SWP 20.0 msec


13:00:15 JUL 30, 2002
CHANNEL 70 (STD)
REF 9.2 dBmV
#AT 0 dB
MKR Δ 16.875 msec
-.07 dB
CHNL
PEAK
LOG
1
dB/
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.6%
Video Modulation: OFF
MORE
INFO
MAIN
MENU
START 499.263 MHz
#RES BW 1.0 MHz
#VBW 1 kHz
STOP 499.263 MHz
#SWP 50.0 msec

Time Warner Cable
Syracuse Division

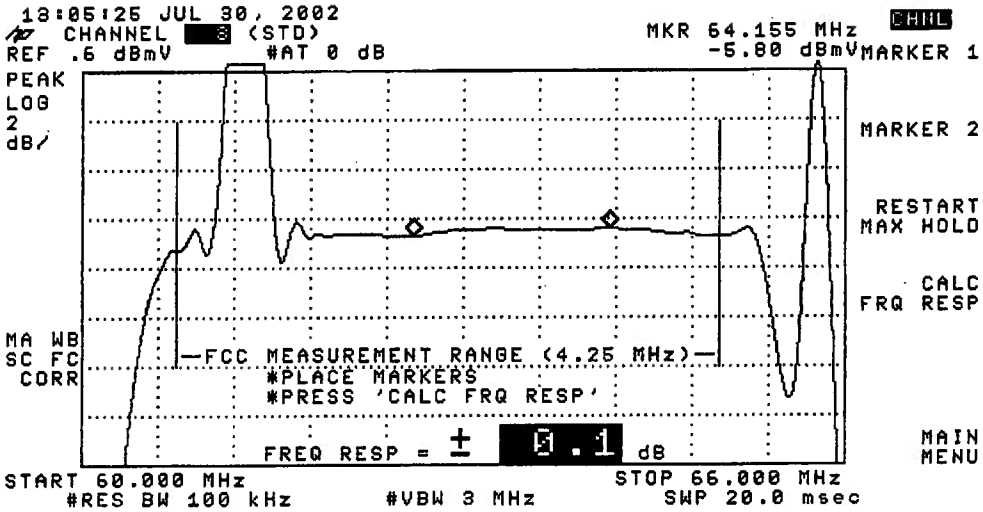
IN - CHANNEL FREQUENCY RESPONSE TEST

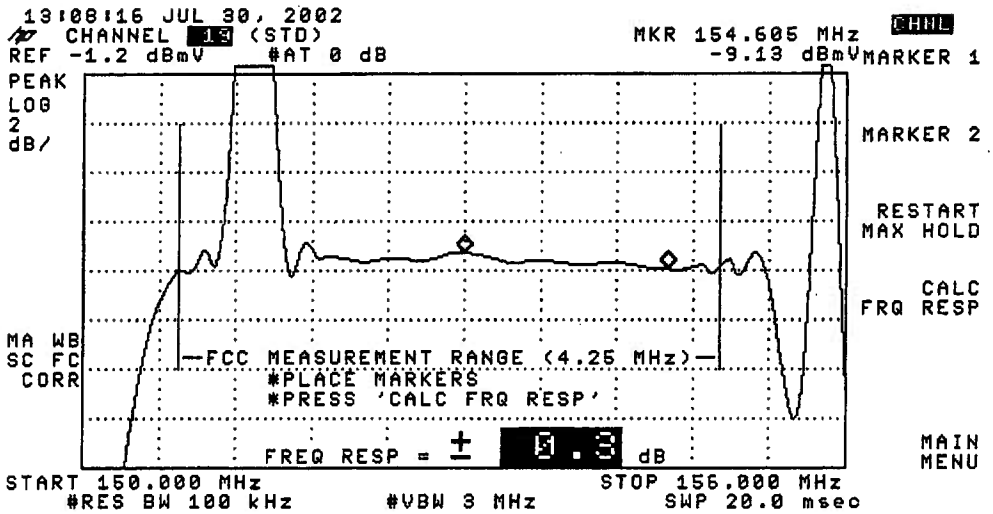
(76.605 (a) 6)

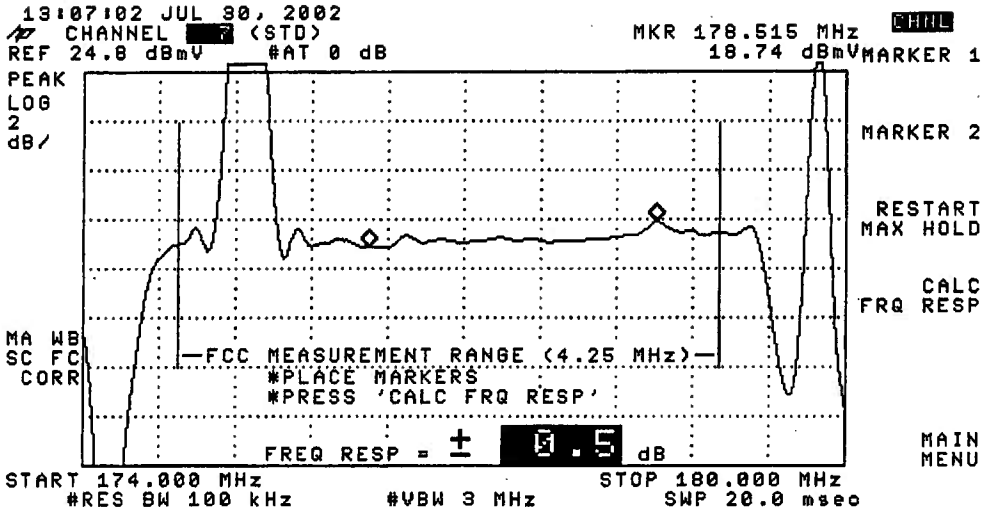
System Name: ROME/ONEIDA Date: AUGUST 22,2002

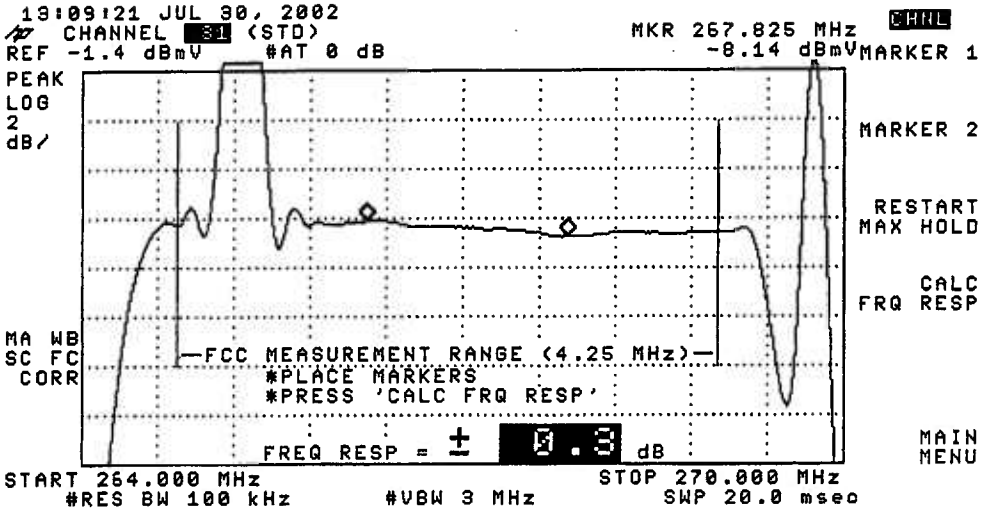
Test Performed By: MARK D'AOUST/JOEL MARMON Location: PRESTON HILL RD

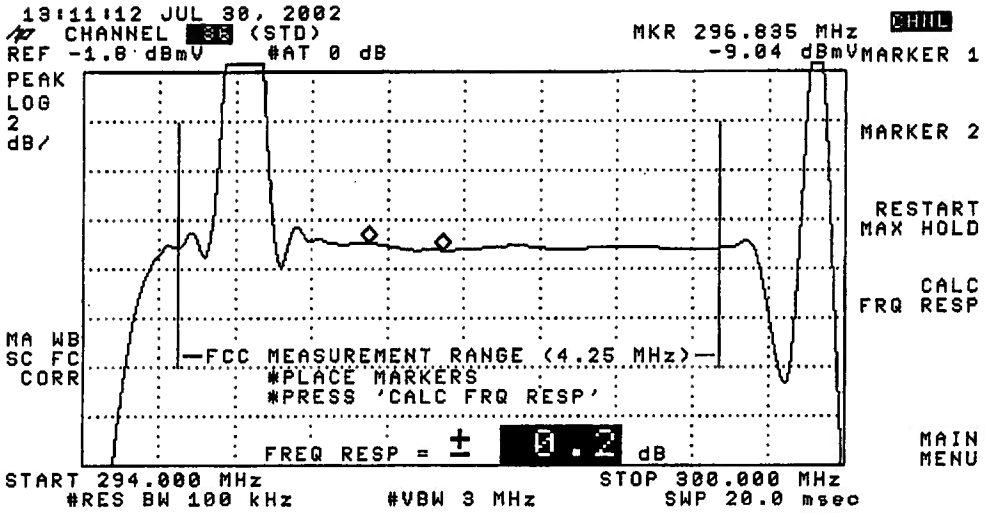
(SEE THE ATTATCHED SWEEP TRACES)

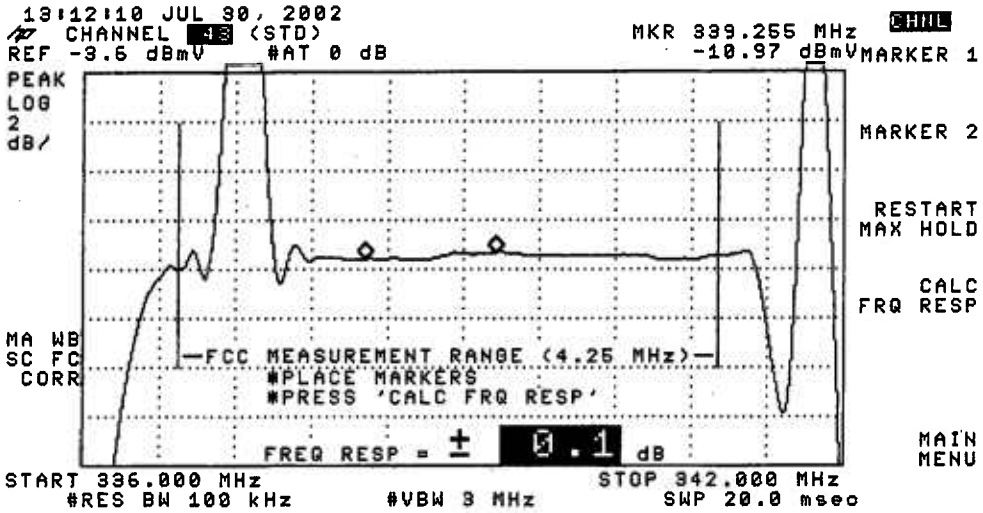

13:05:25 JUL 30, 2002
CHANNEL 3 (STD)
REF .6 dBmV
#AT 0 dB
MKR 64.155 MHz
-5.80 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

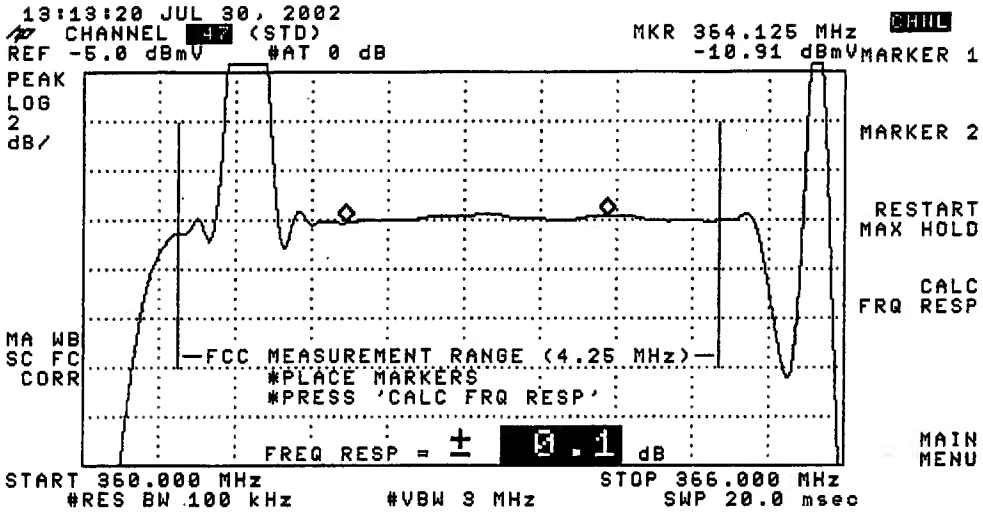

13:08:16 JUL 30, 2002
CHANNEL 13 (STD)
REF -1.2 dBmV
#AT 0 dB
MKR 154.605 MHz
-9.13 dBmV
CHHL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 156.000 MHz
SWP 20.0 msec

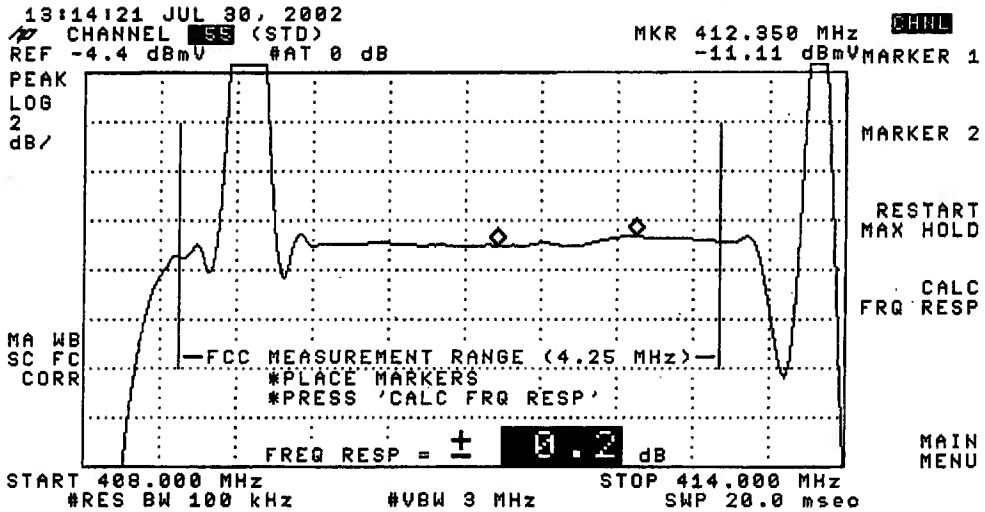

13:07:02 JUL 30, 2002
CHANNEL 7 (STD)
REF 24.8 dBmV
#AT 0 dB
MKR 178.515 MHz
18.74 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.5 dB
MAIN
MENU
START 174.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 180.000 MHz
SWP 20.0 msec

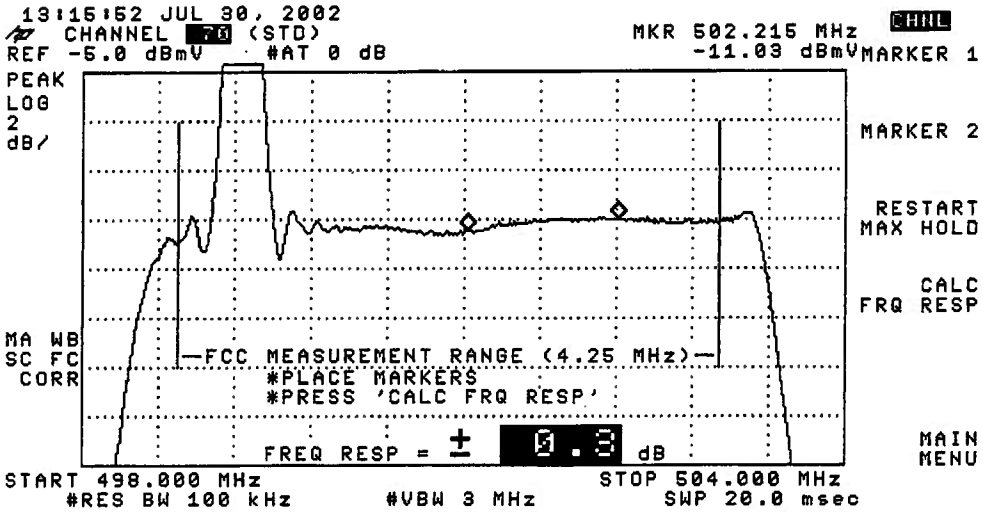

13:09:21 JUL 30, 2002
CHANNEL S1 (STD)
REF -1.4 dBmV
#AT 0 dB
MKR 267.825 MHz
-8.14 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 264.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 270.000 MHz
SWP 20.0 msec

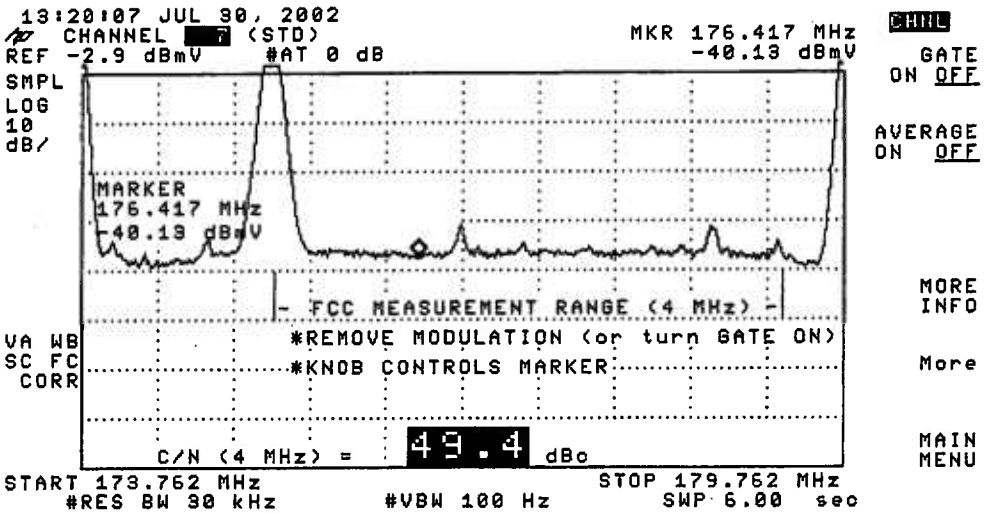

13:11:12 JUL 30, 2002
CHANNEL 38 (STD)
REF -1.8 dBmV
#AT 0 dB
MKR 296.835 MHz
-9.04 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 294.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 300.000 MHz
SWP 20.0 msec

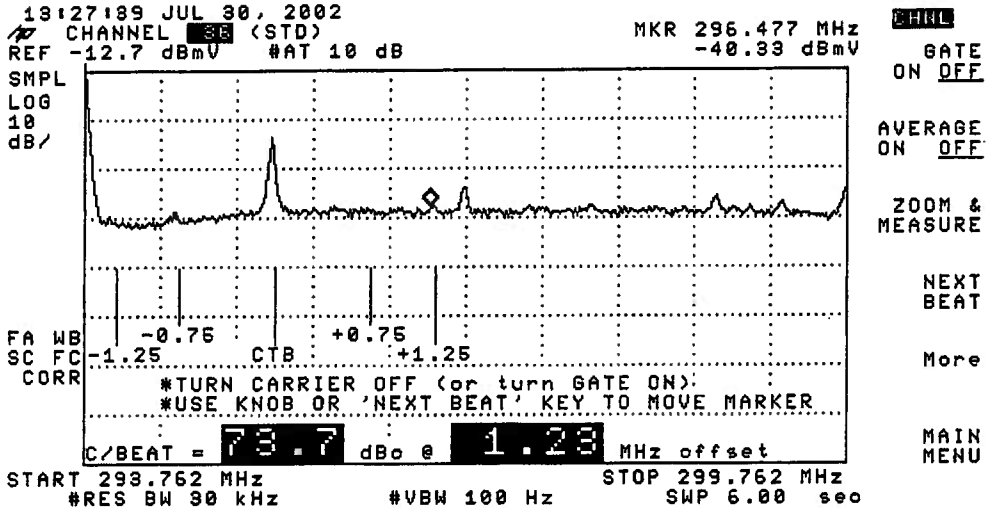

13:12:10 JUL 30, 2002
CHANNEL 43 (STD)
REF -3.6 dBmV
#AT 0 dB
MKR 339.255 MHz
-10.97 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 336.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 342.000 MHz
SWP 20.0 msec

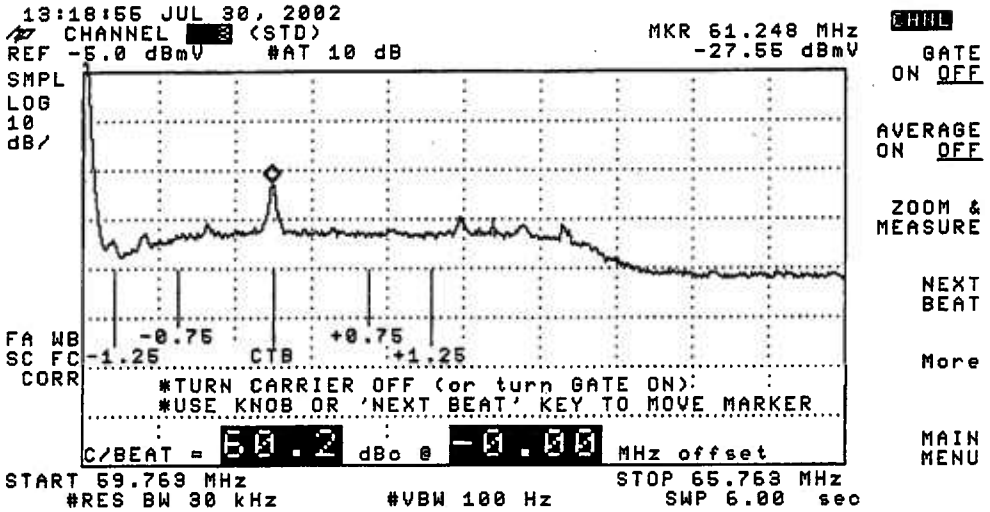

13:13:20 JUL 30, 2002
CHANNEL 47 (STD)
REF -5.0 dBmV
#AT 0 dB
MKR 364.125 MHz
-10.91 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 360.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 366.000 MHz
SWP 20.0 msec


13:14:21 JUL 30, 2002
CHANNEL 55 (STD)
REF -4.4 dBmV
#AT 0 dB
MKR 412.350 MHz
-11.11 dBmV
CHHL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 5.2 dB
MAIN
MENU
START 408.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 414.000 MHz
SWP 20.0 msec


13:15:52 JUL 30, 2002
CHANNEL 70 (STD)
REF -5.0 dBmV
#AT 0 dB
MKR 502.215 MHz
-11.03 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 498.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 504.000 MHz
SWP 20.0 msec


13:20:07 JUL 30, 2002
CHANNEL 7 (STD)
REF -2.9 dBmV
#AT 0 dB
MKR 176.417 MHz
-40.13 dBmV
CHNL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
MARKER
176.417 MHz
-40.13 dBmV
MORE
INFO
- FCC MEASUREMENT RANGE (4 MHz) -
VA WB
SC FC
CORR
*REMOVE MODULATION (or turn GATE ON)
*KNOB CONTROLS MARKER
More
C/N (4 MHz) = 49.4 dBc
MAIN
MENU
START 173.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 6.00 sec


13:27:39 JUL 30, 2002
CHANNEL 36 (STD)
REF -12.7 dBmV
#AT 10 dB
MKR 296.477 MHz
-40.33 dBmV
SMPL
LOG
10
dB/
-0.75
+0.75
FA WB
SC FC
CORR
-1.25
CTB
+1.25
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 73.7 dBc @ 1.28 MHz offset
START 293.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 299.762 MHz
SWP 6.00 sec
CHNL
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU


13:18:55 JUL 30, 2002
CHANNEL 3 (STD)
REF -5.0 dBmV
#AT 10 dB
MKR 61.248 MHz
-27.55 dBmV
CHNL
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
#TURN CARRIER OFF (or turn GATE ON):
#USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 60.2 dBc @ -0.00 MHz offset
START 59.763 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 65.763 MHz
SWP 6.00 sec

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location PRESTON HILL RD, HAMILTON

Date: AUG. 9, 2002 Performed by MARK D'AOUST

Meter Serial Number CALAN 3010#US37241488

Chan	Freq (MHz)	Temp F	79	75	73	70	Max Variation	Chan	Freq (MHz)	Temp F	79	75	73	70	Max Variation
		Time	11:15	17:15	23:15	05:15				Time	11:15	17:15	23:15	05:15	
		Visual Level (dbmV)								Visual Level (dbmV)					
2	55.2500		15.9	15.9	15.8	15.9	0.1	AA	301.2625		14.5	14.6	15.4	16.1	1.6
3	61.2500		16.9	17.1	16.9	16.6	0.5	BB	307.2625		14.0	14.0	14.9	15.3	1.3
4	67.2500		17.1	16.9	16.6	16.7	0.5	CC	313.2625		13.8	14.0	15.0	15.5	1.7
5	77.2500		16.0	15.8	16.0	16.2	0.4	DD	319.2625		13.0	13.4	14.4	14.9	1.9
6	83.2500		16.0	16.1	16.0	16.3	0.3	EE	325.2625		12.1	12.8	14.7	13.8	2.6
								FF	331.2750		13.4	13.4	14.5	15.0	1.6
								GG	337.2625		12.9	13.2	14.1	14.7	1.8
A-5	91.2500		16.8	16.8	16.9	17.2	0.4	HH	343.2625		13.0	13.3	14.5	14.9	1.9
A-4	97.2500		17.2	17.4	17.3	17.5	0.3	II	349.2625		12.7	13.1	14.1	14.7	2.0
A-3	103.2500							JJ	355.2625		12.7	13.0	13.9	14.4	1.7
A-2	109.2750							KK	361.2625		12.7	13.1	14.2	14.4	1.7
A-1	115.2750		15.2	15.6	14.8	16.2	1.4	LL	367.2625		14.8	14.9	16.1	16.5	1.7
A	121.2625		15.9	16.2	16.3	16.3	0.4	MM	373.2625		12.4	12.5	13.7	14.3	1.9
B	127.2625		16.7	16.9	16.8	17.1	0.4	NN	379.2625		12.5	12.7	13.6	14.5	2.0
C	133.2625		15.6	15.7	16.0	16.4	0.8	OO	385.2625		12.7	12.9	13.9	14.3	1.6
D	139.2500		15.6	15.6	15.8	16.1	0.5	PP	391.2625		12.3	12.6	13.8	14.4	2.1
E	145.2500		15.2	15.2	15.3	15.6	0.4	QQ	397.2625		12.4	12.7	13.7	14.2	1.8
F	151.2500		15.5	15.6	15.7	15.8	0.3	RR	403.2500		12.1	12.3	13.5	14.2	2.1
G	157.2500		16.7	16.7	16.9	17.2	0.5	SS	409.2500		11.9	12.1	13.3	13.9	2.0
H	163.2500		17.5	17.5	17.5	18.2	0.7	TT	415.2500		11.4	11.6	12.7	13.3	1.9
I	169.2500		16.3	16.6	16.9	17.0	0.7	UU	421.2500		11.5	11.7	13.0	13.5	2.0
7	175.2500		16.6	16.4	16.8	17.4	1.0	VV	427.2500		11.8	11.8	13.1	13.7	1.9
8	181.2500		16.7	16.8	17.1	17.2	0.5	WW	433.2500		11.5	11.9	13.2	13.8	2.3
9	187.2500		16.2	16.1	16.3	16.7	0.6	XX	439.2500		11.8	12.1	13.6	14.1	2.3
10	193.2500		17.3	17.4	18.1	18.6	1.3	YY	445.2500		13.4	13.7	15.0	15.6	2.2
11	199.2500		15.0	15.3	15.9	16.2	1.2	ZZ	451.2500		11.7	12.0	13.4	14.0	2.3
12	205.2500		15.0	14.7	15.2	16.1	1.4	63	457.2500		12.0	12.2	13.7	14.3	2.3
13	211.2500		15.7	15.7	16.2	16.5	0.8	64	463.2500		11.5	11.7	13.3	14.0	2.5
J	217.2500		15.3	15.4	15.7	16.0	0.7	65	469.2500		11.4	11.9	13.5	14.2	2.8
K	223.2500		16.1	16.3	16.5	16.9	0.8	66	475.2500		11.0	11.3	13.0	13.6	2.6
L	229.2625		15.1	15.3	15.7	15.9	0.8	67	481.2500		11.6	12.0	13.5	14.1	2.5
M	235.2625		16.5	16.6	17.1	17.4	0.9	68	487.2500		11.5	11.9	13.5	14.0	2.5
N	241.2625		17.0	16.0	17.0	16.9	1.0	69	493.2500		10.8	11.3	12.8	13.5	2.7
O	247.2625		18.5	17.5	17.8	17.7	1.0	70	499.2500		10.9	11.2	12.9	13.5	2.6
P	253.2625		15.7	15.9	16.1	16.2	0.5	71	505.2500		10.8	11.3	12.6	13.4	2.6
Q	259.2625		17.1	17.6	18.0	17.9	0.9	72	511.2500		11.0	11.3	12.9	13.6	2.6
R	265.2625		15.7	15.8	16.2	16.8	1.1	73	517.2500		10.9	11.3	13.0	13.6	2.7
S	271.2625		16.9	17.2	17.8	17.8	0.9	74	523.2500		10.2	10.7	12.6	12.9	2.7
T	277.2625		16.2	16.3	16.6	16.9	0.7	75	529.2500		11.3	11.7	13.5	14.2	2.9
U	283.2625		15.1	15.2	15.7	16.3	1.2	76	535.2500		11.6	11.9	13.7	14.1	2.5
V	289.2625		16.6	16.8	17.6	17.5	1.0	77	541.2500		10.4	11.0	12.5	12.9	2.5
W	295.2625		14.8	14.8	15.6	16.0	1.2	78	547.2500		11.0	11.3	13.1	13.5	2.5

Max NonAdjacent Channel Level Diff.	8.3
Max Adjacent Channel Level Diff.	2.8

Max Variance from last proof-of-performance test	4.4
Date of last proof-of-performance test	FEB.22,2002

Note: Make measurements through a 100 ft. test drop cable without a converter.

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

System Test Point # 4

Location: RT. 49

Community: NORTH BAY

Pole Number: NM/60

D.T. Value: 26/4

Map Number: 440-5702

OR Number: 874

Trunk Cascade: 5 LE Cascade: 2

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **RT 49**

Date: 06-Aug-02

Time: 08:15 AM

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scrs	Diff (Dbmv)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scrs	Diff (Dbmv)
2	55.2500	10.2	-2.8		13.0	AA	301.2625	12.9	-1.5		14.4
3	61.2500	11.5	-2.3		13.8	BB	307.2625	12.4	-2.6		15.0
4	67.2500	11.1	-2.8		13.9	CC	313.2625	12.4	-1.9		14.3
5	77.2500	10.8	-2.2		13.0	DD	319.2625	12.4	-1.4		13.8
6	83.2500	10.6	-2.5		13.1	EE	325.2625	11.4	-0.8		12.2
						FF	331.2750	12.6	-0.7		13.3
						GG	337.2625	12.7	-2.5	S	15.2
A-5	91.2500	12.1	-2.6	S	14.7	HH	343.2625	13.4	-1.2		14.6
A-4	97.2500	12.3	-2.3		14.6	II	349.2625	12.7	-1.0		13.7
A-3	103.2500					JJ	355.2625	12.2	-1.4		13.6
A-2	109.2750					KK	361.2625	12.1	-2.1		14.2
A-1	115.2750	10.6	-4.2	S	14.8	LL	367.2625	13.6	0.0		13.6
A	121.2625	11.0	-2.1		13.1	MM	373.2625	13.0	-2.0		15.0
B	127.2625	10.1	-3.1		13.2	NN	379.2625	12.2	-1.3		13.5
C	133.2625	11.0	-1.7		12.7	OO	385.2625	10.7	-4.1	S	14.8
D	139.2500	11.5	-2.9	S	14.4	PP	391.2625	11.9	-4.1	S	16.0
E	145.2500	11.9	-1.9		13.8	QQ	397.2625	12.7	-1.1	S	13.8
F	151.2500	10.8	-2.6		13.4	RR	403.2500	13.0	-1.8	S	14.8
G	157.2500	12.7	-1.7		14.4	SS	409.2500	12.5	-2.3	S	14.8
H	163.2500	12.4	-1.4		13.8	TT	415.2500	12.0	-1.1		13.1
I	169.2500	13.4	-0.9		14.3	UU	421.2500	12.8	2.1	S	10.7
7	175.2500	13.6	-0.8		14.4	VV	427.2500	13.5	-1.1		14.6
8	181.2500	14.2	0.1		14.1	WW	433.2500	13.6	-0.8	S	14.4
9	187.2500	12.7	-0.8		13.5	XX	439.2500	13.3	-1.8	S	15.1
10	193.2500	15.2	-1.4		16.6	YY	445.2500	14.8	0.6		14.2
11	199.2500	13.2	-1.2		14.4	ZZ	451.2500	15.1	-0.3	S	15.4
12	205.2500	11.6	-4.6		16.2	63	457.2500	15.6	0.9	S	14.7
13	211.2500	12.4	-1.3		13.7	64	463.2500	15.1	-0.4	S	15.5
J	217.2500	12.8	-0.4		13.2	65	469.2500	15.2	-0.1	S	15.3
K	223.2500	11.8	-2.8		14.6	66	475.2500	15.4	1.5	S	13.9
L	229.2625	12.3	-3.8	S	16.1	67	481.2500	15.5	0.5	S	15.0
M	235.2625	12.5	-2.0		14.5	68	487.2500	15.0	1.3	S	13.7
N	241.2625	13.1	-1.5		14.6	69	493.2500	15.3	-0.1	S	15.4
O	247.2625	13.3	-0.2		13.5	70	499.2500	15.3	1.3	S	14.0
P	253.2625	12.4	-1.1		13.5	71	505.2500	15.0	1.1	S	13.9
Q	259.2625	13.4	0.0		13.4	72	511.2500	14.9	-1.6	S	16.5
R	265.2625	13.5	-1.3		14.8	73	517.2500	14.3	0.2	S	14.1
S	271.2625	13.8	0.0		13.8	74	523.2500	14.9	0.7	S	14.2
T	277.2625	12.0	0.9		11.1	75	529.2500	16.6	2.1	S	14.5
U	283.2625	13.0	-1.3		14.3	76	535.2500	17.2	5.0	S	12.2
V	289.2625	14.0	0.8		13.2	77	541.2500	16.8	4.2	S	12.6
W	295.2625	13.5	0.0		13.5	78	547.2500	17.4	3.8	S	13.6

PEAK TO VALLEY: 7.1

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

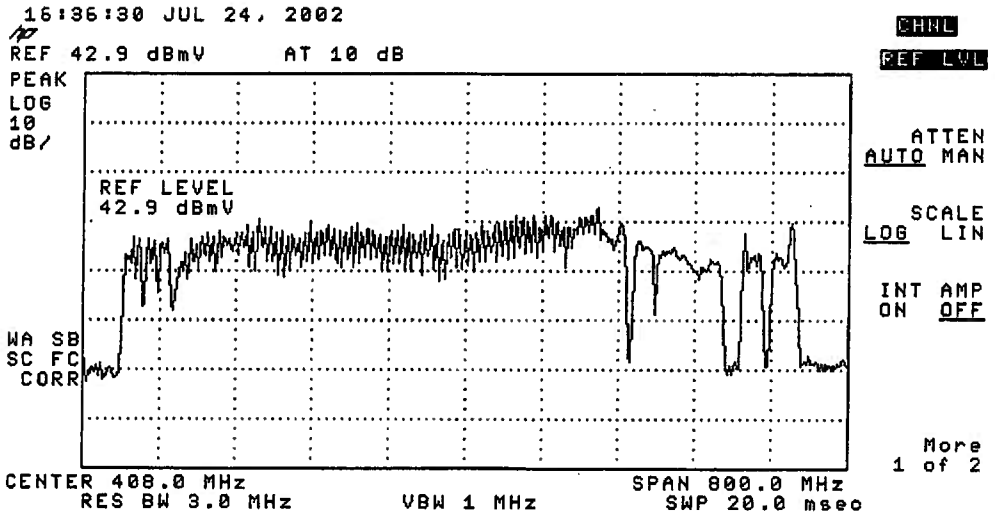
System Name: TIME WARNER ROME/ONEIDA **Date:** JULY 24,2002

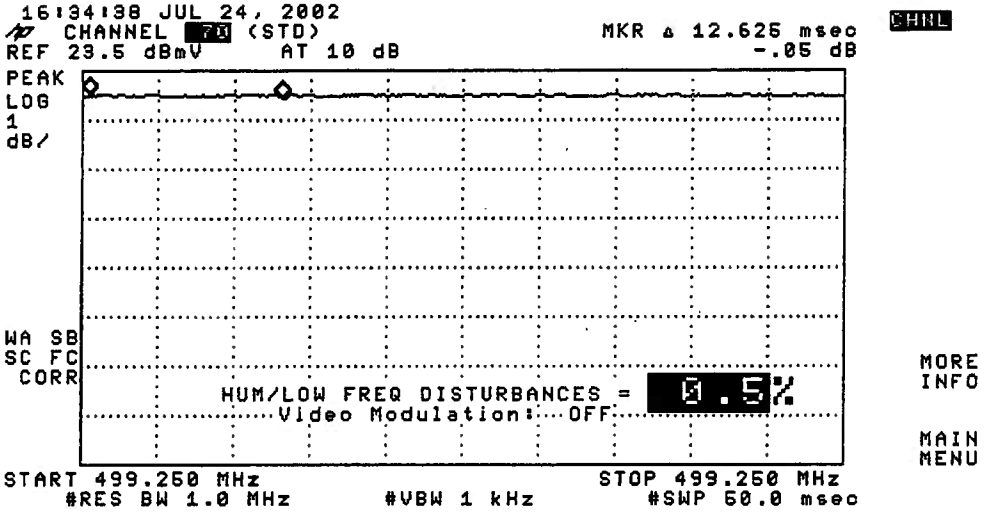
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: RT.49 NORTH BAY

Note: Make measurements through a 100 ft. test drop cable without converter.

[redacted]						
3	0.10	47.9	67.2	76.5		
19	0.40	47.1	67.6	74.6		
7	0.40	47.6	67.1	76.2		
31	0.30	46.7	63.3	71.9		
36	0.40	46.3	60.5	68.0		
43	0.40	46.2	61.1	67.1		
47	0.40	46.3	59.6	67.2		
55	0.50	46.9	59.9	67.6		
70	0.60	47.9	60.2	67.8		0.5


16:36:30 JUL 24, 2002
REF 42.9 dBmV
AT 10 dB
PEAK
LOG
10
dB/
REF LEVEL
42.9 dBmV
WA SB
SC FC
CORR
CHNL
REF LVL
ATTEN
AUTO MAN
SCALE
LOG LIN
INT AMP
ON OFF
More
1 of 2
CENTER 408.0 MHz
RES BW 3.0 MHz
VBW 1 MHz
SPAN 800.0 MHz
SWP 20.0 msec


16:34:38 JUL 24, 2002
CHANNEL 70 (STD)
REF 23.5 dBmV
AT 10 dB
MKR Δ 12.625 msec
-.05 dB
CHNL
PEAK
LOG
1
dB/
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.5%
Video Modulation: OFF
MORE
INFO
MAIN
MENU
START 499.250 MHz
#RES BW 1.0 MHz
#VBW 1 kHz
STOP 499.250 MHz
#SWP 50.0 msec

Time Warner Cable
Syracuse Division

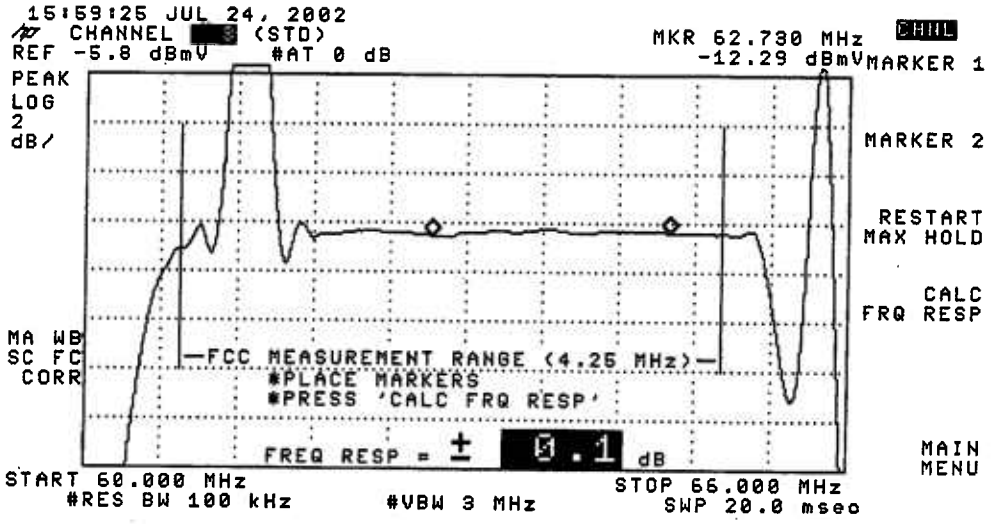
IN - CHANNEL FREQUENCY RESPONSE TEST

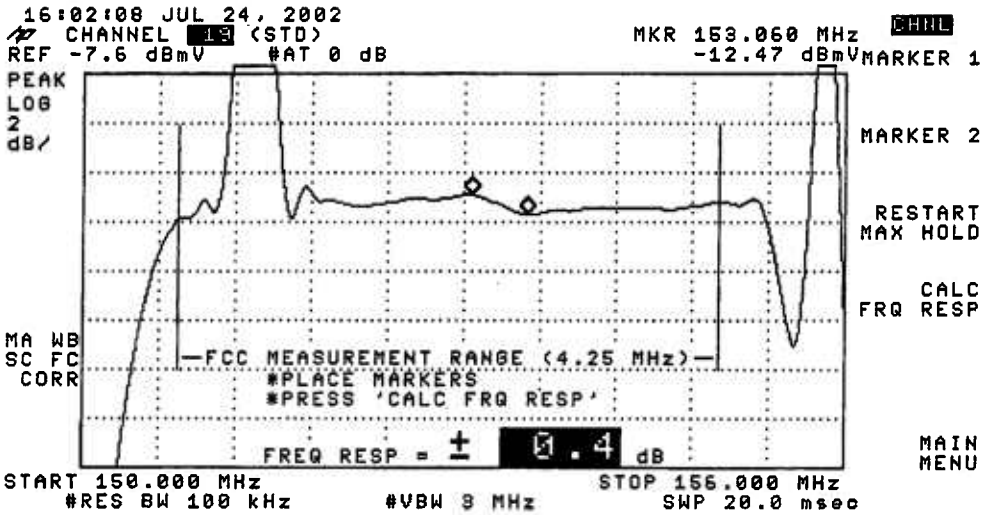
(76.605 (a) 6)

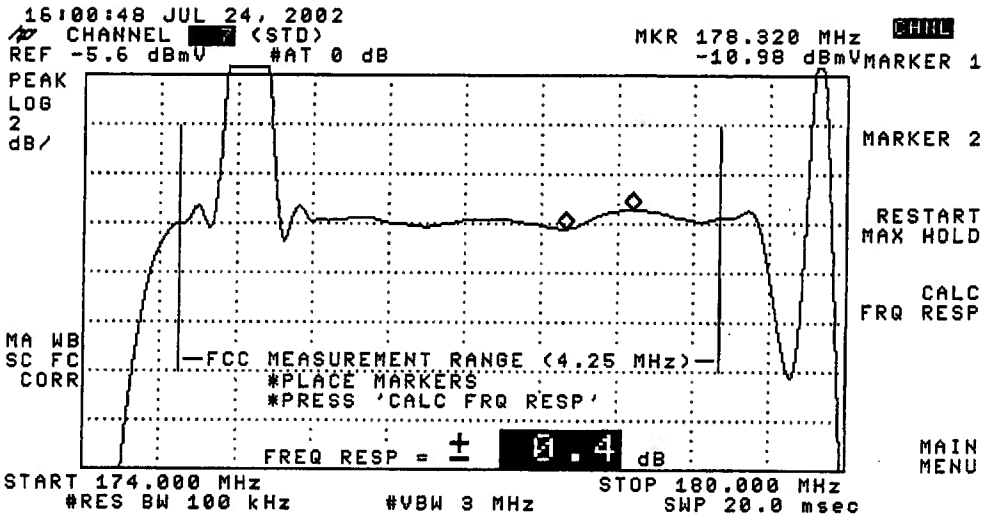
System Name: ROME/ONEIDA Date: AUGUST 22,2002

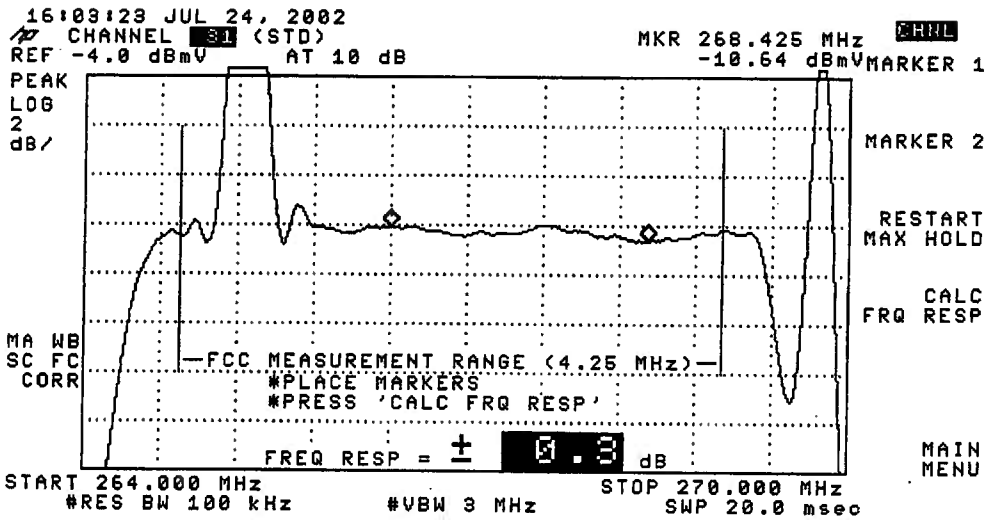
Test Performed By: MARK D'AOUST/JOEL MARMON Location: RT 49, NORTH BAY

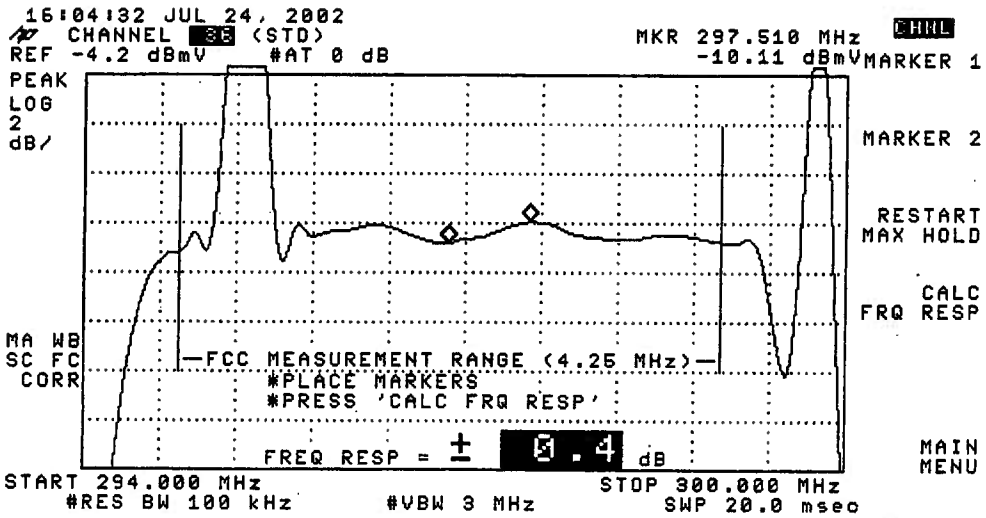
(SEE THE ATTATCHED SWEEP TRACES)

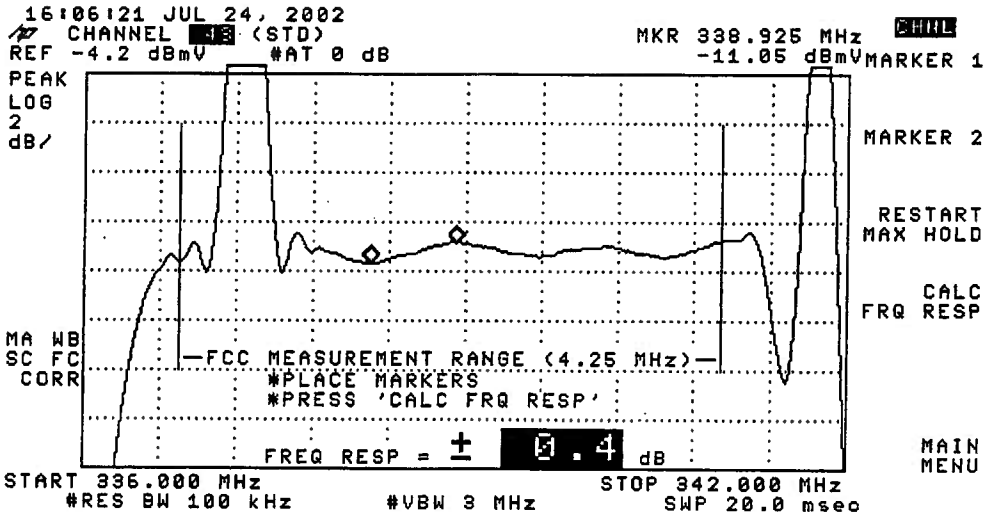

15:59:25 JUL 24, 2002
CHANNEL [redacted] (STD)
REF -5.8 dBmV
#AT 0 dB
MKR 62.730 MHz
-12.29 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

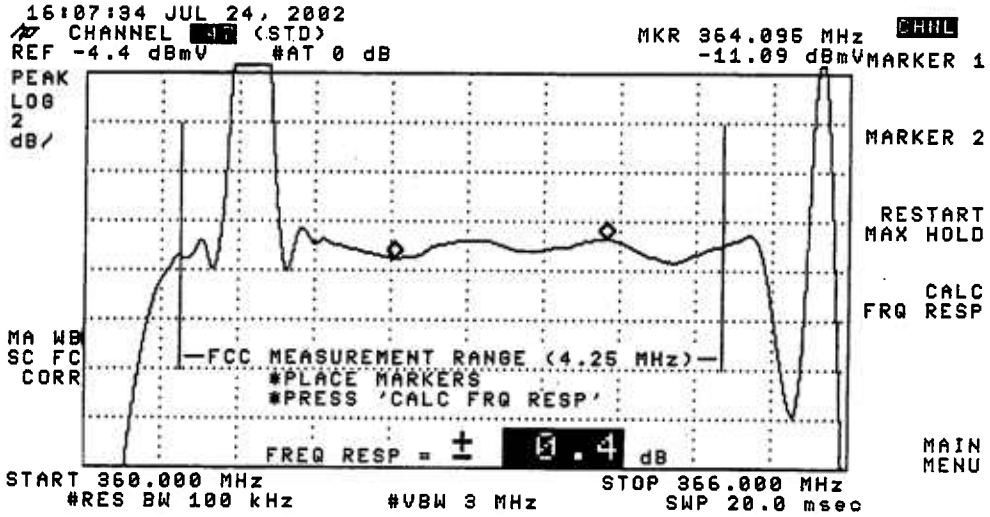

16:02:08 JUL 24, 2002
CHANNEL 13 (STD)
REF -7.6 dBmV
#AT 0 dB
MKR 153.060 MHz
-12.47 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.4 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 156.000 MHz
SWP 20.0 msec

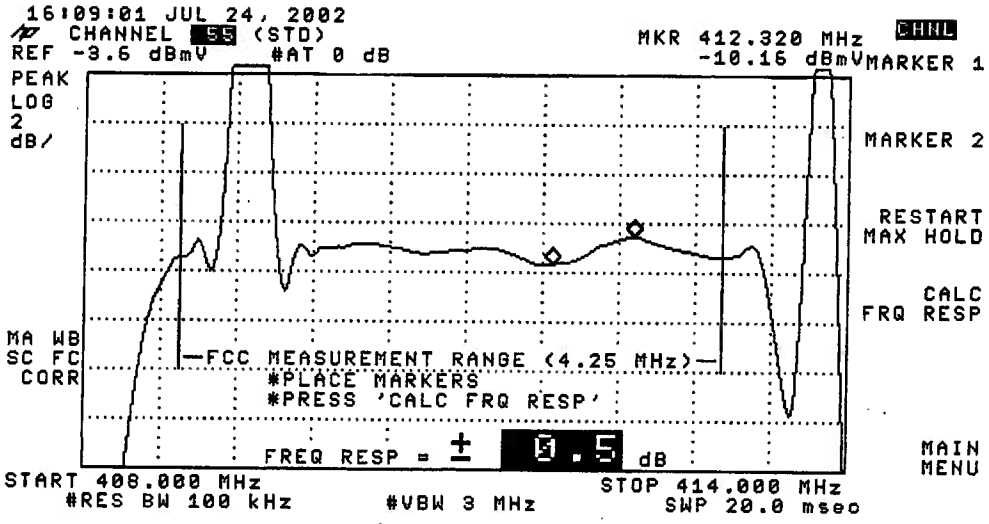

16:00:48 JUL 24, 2002
CHANNEL 7 (STD)
REF -5.6 dBmV
#AT 0 dB
MKR 178.320 MHz
-10.98 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.4 dB
MAIN
MENU
START 174.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 180.000 MHz
SWP 20.0 msec

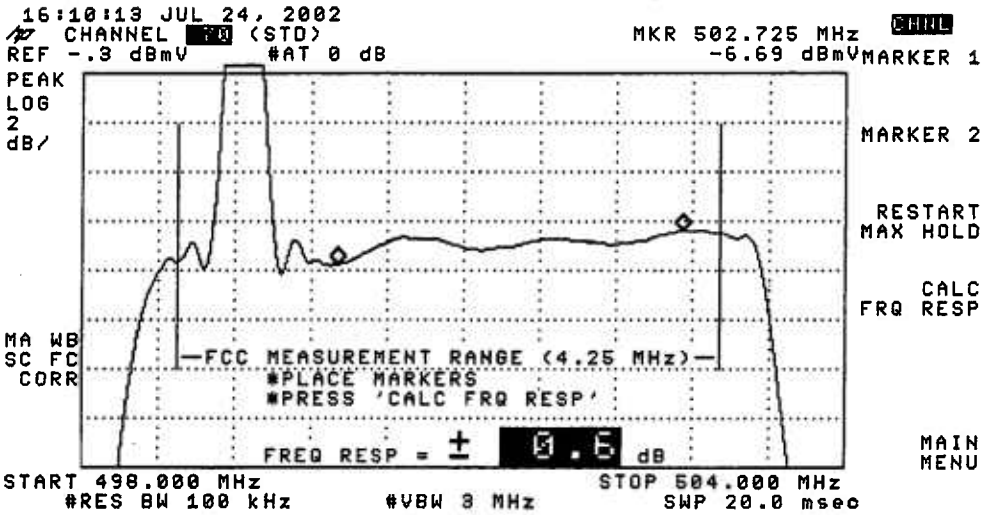

16:03:23 JUL 24, 2002
CHANNEL S1 (STD)
REF -4.0 dBmV
AT 10 dB
MKR 268.425 MHz
-10.64 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 264.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 270.000 MHz
SWP 20.0 msec

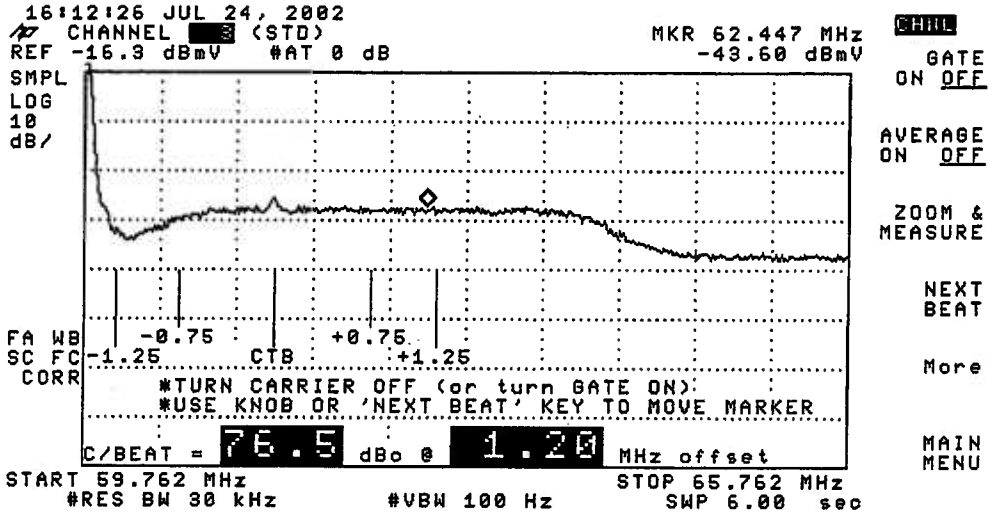

16:04:32 JUL 24, 2002
CHANNEL 38 (STD)
REF -4.2 dBmV
#AT 0 dB
MKR 297.510 MHz
-10.11 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 5.4 dB
MAIN
MENU
START 294.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 300.000 MHz
SWP 20.0 msec

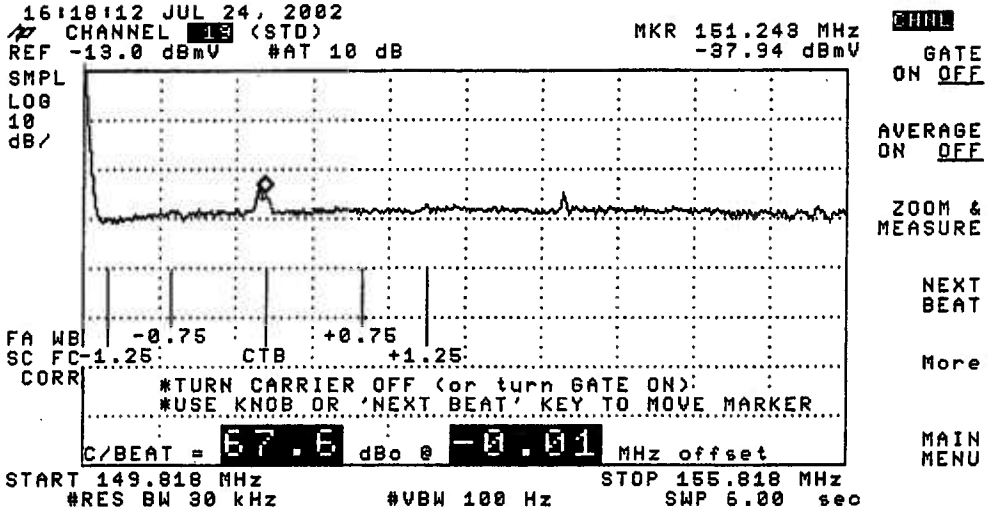

16:06:21 JUL 24, 2002
CHANNEL 13 (STD)
REF -4.2 dBmV
#AT 0 dB
MKR 338.925 MHz
-11.05 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.4 dB
MAIN
MENU
START 336.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 342.000 MHz
SWP 20.0 msec


16:07:34 JUL 24, 2002
CHANNEL 47 (STD)
REF -4.4 dBmV
#AT 0 dB
MKR 364.095 MHz
-11.09 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.4 dB
MAIN
MENU
START 360.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 366.000 MHz
SWP 20.0 msec


16:09:01 JUL 24, 2002
CHANNEL 55 (STD)
REF -3.6 dBmV
#AT 0 dB
MKR 412.320 MHz
-10.16 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.5 dB
MAIN
MENU
START 408.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 414.000 MHz
SWP 20.0 msec


16:10:13 JUL 24, 2002
CHANNEL 190 (STD)
REF -.3 dBmV
#AT 0 dB
MKR 502.725 MHz
-6.69 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.6 dB
MAIN
MENU
START 498.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 504.000 MHz
SWP 20.0 msec


16:12:26 JUL 24, 2002
CHANNEL 3 (STD)
REF -16.3 dBmV #AT 0 dB
MKR 62.447 MHz
-43.60 dBmV
CHIL
SMPL
LOG
10
dB/
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
#TURN CARRIER OFF (or turn GATE ON)
#USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 76.5 dBo @ 1.20 MHz offset
START 59.762 MHz
STOP 65.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
SWP 6.00 sec


16:18:12 JUL 24, 2002
CHANNEL 13 (STD)
REF -13.0 dBmV
#AT 10 dB
MKR 151.248 MHz
-37.94 dBmV
SMPL
LOG
10
dB/
FA WB -0.75 +0.75
SC FC-1.25 CTB +1.25
CORR
#TURN CARRIER OFF (or turn GATE ON)
#USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 67.6 dBo @ -0.01 MHz offset
START 149.818 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 155.818 MHz
SWP 6.00 sec
CHNL
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location RT 49, NORTH BAY

Date: AUG. 6, 2002 Performed by MARK D'AOUST

Meter Serial Number: CALAN 3010#US37241488

Chan	Freq (MHz)	Temp °F	72	82	77	71	Max Variation
		Time	08:15	14:15	20:15	02:15	
		Visual Level (dbmV)					
2	55.2500		10.2	9.7	9.4	10.2	0.8
3	61.2500		11.5	11.0	10.8	11.7	0.9
4	67.2500		11.1	10.6	10.7	11.2	0.6
5	77.2500		10.8	10.0	10.3	10.9	0.9
6	83.2500		10.6	10.5	10.5	11.0	0.5
A-5	91.2500		12.1	11.5	11.5	12.0	0.6
A-4	97.2500		12.3	11.4	11.6	12.1	0.9
A-3	103.2500						
A-2	109.2750						
A-1	115.2750		10.6	9.9	11.0	10.9	1.1
A	121.2625		11.0	10.5	10.3	11.1	0.8
B	127.2625		10.1	9.4	9.6	10.1	0.7
C	133.2625		11.0	10.9	10.8	11.3	0.5
D	139.2500		11.5	11.2	11.3	11.7	0.5
E	145.2500		11.9	11.5	11.5	11.7	0.4
F	151.2500		10.8	10.9	11.1	11.0	0.3
G	157.2500		12.7	12.2	12.4	13.1	0.9
H	163.2500		12.4	12.3	12.1	12.7	0.6
I	169.2500		13.4	13.1	13.1	13.3	0.3
7	175.2500		13.6	13.0	13.2	13.3	0.6
8	181.2500		14.2	13.7	13.7	14.2	0.5
9	187.2500		12.7	12.6	12.3	13.6	1.3
10	193.2500		15.2	15.0	15.0	14.0	1.2
11	199.2500		13.2	13.1	13.1	11.8	1.4
12	205.2500		11.6	11.3	11.4	11.5	0.3
13	211.2500		12.4	11.9	12.2	12.2	0.5
J	217.2500		12.8	12.4	12.6	12.8	0.4
K	223.2500		11.8	11.5	11.5	11.9	0.4
L	229.2625		12.3	12.0	12.1	12.3	0.3
M	235.2625		12.5	12.0	12.1	12.6	0.6
N	241.2625		13.1	12.1	12.4	12.9	1.0
O	247.2625		13.3	12.9	12.8	13.3	0.5
P	253.2625		12.4	12.2	12.4	12.5	0.3
Q	259.2625		13.4	13.1	13.3	13.4	0.3
R	265.2625		13.5	13.0	13.2	13.4	0.5
S	271.2625		13.8	13.6	13.3	13.8	0.5
T	277.2625		12.0	11.6	11.7	12.1	0.5
U	283.2625		13.0	12.6	12.8	12.9	0.4
V	289.2625		14.0	13.7	13.6	14.2	0.6
W	295.2625		13.5	13.2	13.4	13.0	0.5

Chan	Freq (MHz)	Temp °F	72	82	77	71	Max Variation
		Time	08:15	14:15	20:15	02:15	
		Visual Level (dbmV)					
AA	301.2625		12.9	12.7	13.1	13.0	0.4
BB	307.2625		12.4	12.2	12.2	12.5	0.3
CC	313.2625		12.4	12.1	12.1	12.2	0.3
DD	319.2625		12.4	12.2	12.4	12.5	0.3
EE	325.2625		11.4	11.6	11.7	11.8	0.4
FF	331.2750		12.6	12.6	12.6	12.7	0.1
GG	337.2625		12.7	12.8	12.9	12.9	0.2
HH	343.2625		13.4	12.9	13.1	13.2	0.5
II	349.2625		12.7	12.3	12.7	12.6	0.4
JJ	355.2625		12.2	11.9	12.1	12.2	0.3
KK	361.2625		12.1	11.8	11.7	11.9	0.4
LL	367.2625		13.6	13.1	13.2	13.7	0.6
MM	373.2625		13.0	12.3	13.0	12.8	0.7
NN	379.2625		12.2	11.9	11.9	12.2	0.3
OO	385.2625		10.7	11.6	11.8	11.7	1.1
PP	391.2625		11.9	11.8	12.0	12.0	0.2
QQ	397.2625		12.7	12.5	12.6	12.5	0.2
RR	403.2500		13.0	12.6	12.9	13.1	0.5
SS	409.2500		12.5	12.2	12.3	12.4	0.3
TT	415.2500		12.0	11.8	12.0	12.2	0.4
UU	421.2500		12.8	12.5	13.0	12.4	0.6
VV	427.2500		13.5	13.2	13.3	13.5	0.3
WW	433.2500		13.6	13.2	13.4	13.6	0.4
XX	439.2500		13.3	12.8	13.2	13.4	0.6
YY	445.2500		14.8	14.3	14.7	15.0	0.7
ZZ	451.2500		15.1	14.6	14.9	15.0	0.5
63	457.2500		15.6	15.3	15.4	15.6	0.3
64	463.2500		15.1	14.8	15.0	15.0	0.3
65	469.2500		15.2	14.5	15.1	15.1	0.7
66	475.2500		15.4	15.1	15.3	15.3	0.3
67	481.2500		15.5	15.1	15.5	15.4	0.4
68	487.2500		15.0	14.8	15.0	15.0	0.2
69	493.2500		15.3	14.9	15.2	15.1	0.4
70	499.2500		15.3	15.0	15.2	15.2	0.3
71	505.2500		15.0	14.5	15.0	14.7	0.5
72	511.2500		14.9	14.5	14.8	14.8	0.4
73	517.2500		14.3	14.1	14.2	14.2	0.2
74	523.2500		14.9	14.7	14.9	14.6	0.3
75	529.2500		16.6	16.3	16.8	16.6	0.5
76	535.2500		17.2	17.3	17.2	17.0	0.3
77	541.2500		16.8	17.1	17.2	16.6	0.6
78	547.2500		17.4	17.6	17.9	17.6	0.5

Max NonAdjacent Channel Level Diff.	8.5
Max Adjacent Channel Level Diff.	2.7

Max Variance from last proof-of-performance test	4.3
Date of last proof-of-performance test	FEB.19,2002

Note: Make measurements through a 100 ft. test drop cable without a converter.

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

System Test Point # 5

Location: FAIRVEIW AVE.

Community: CITY OF ONEIDA

Pole Number: 49

D.T. Value: 11/4

Map Number: 461-5642

OR Number: 888

Trunk Cascade: 2 LE Cascade: 4

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **FAIRVIEW AVE.**

Date: 11-Aug-02

Time: 09:30 AM

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)
2	55.2500	20.9	8.2		12.7	AA	301.2625	19.8	5.7		14.1
3	61.2500	21.5	8.1		13.4	BB	307.2625	19.6	5.1		14.5
4	67.2500	21.3	7.4		13.9	CC	313.2625	19.9	5.5		14.4
5	77.2500	21.1	8.3		12.8	DD	319.2625	19.5	5.3		14.2
6	83.2500	20.9	7.5		13.4	EE	325.2625	18.6	5.7		12.9
						FF	331.2750	19.8	6.5		13.3
						GG	337.2625	20.0	5.5	S	14.5
A-5	91.2500	22.0	7.4	S	14.6	HH	343.2625	20.5	6.4		14.1
A-4	97.2500	22.1	7.4		14.7	II	349.2625	20.0	6.8		13.2
A-3	103.2500					JJ	355.2625	20.5	6.0		14.5
A-2	109.2750					KK	361.2625	19.6	6.1		13.5
A-1	115.2750	19.9	6.4	S	13.5	LL	367.2625	21.5	7.7		13.8
A	121.2625	20.4	7.9		12.5	MM	373.2625	19.1	4.2		14.9
B	127.2625	20.7	6.9		13.8	NN	379.2625	19.2	5.4		13.8
C	133.2625	20.2	6.5		13.7	OO	385.2625	19.3	8.8		10.5
D	139.2500	20.2	6.4	S	13.8	PP	391.2625	18.8	2.3	S	16.5
E	145.2500	19.7	5.8		13.9	QQ	397.2625	18.2	5.1	S	13.1
F	151.2500	19.1	4.5		14.6	RR	403.2500	18.5	2.9	S	15.6
G	157.2500	20.0	5.2		14.8	SS	409.2500	17.5	2.6	S	14.9
H	163.2500	20.2	6.0		14.2	TT	415.2500	17.4	3.9		13.5
I	169.2500	19.8	5.3		14.5	UU	421.2500	17.1	6.1	S	11.0
7	175.2500	19.8	6.2		13.6	VV	427.2500	16.9	3.3		13.6
8	181.2500	19.9	6.2		13.7	WW	433.2500	17.7	2.8	S	14.9
9	187.2500	18.9	5.2		13.7	XX	439.2500	17.3	1.0	S	16.3
10	193.2500	20.6	7.3		13.3	YY	445.2500	18.5	4.2		14.3
11	199.2500	20.7	5.9		14.8	ZZ	451.2500	17.2	1.3	S	15.9
12	205.2500	18.0	2.7		15.3	63	457.2500	17.3	2.4	S	14.9
13	211.2500	18.9	5.3		13.6	64	463.2500	17.0	2.0	S	15.0
J	217.2500	18.6	5.6		13.0	65	469.2500	17.6	2.8	S	14.8
K	223.2500	18.6	3.9		14.7	66	475.2500	17.3	3.4	S	13.9
L	229.2625	18.0	2.1	S	15.9	67	481.2500	17.8	3.1	S	14.7
M	235.2625	19.0	4.9		14.1	68	487.2500	18.0	3.7	S	14.3
N	241.2625	19.0	4.3		14.7	69	493.2500	17.5	3.2	S	14.3
O	247.2625	20.9	7.3		13.6	70	499.2500	17.7	2.5	S	15.2
P	253.2625	18.4	4.5		13.9	71	505.2500	17.2	2.9	S	14.3
Q	259.2625	20.0	7.0		13.0	72	511.2500	17.5	3.5	S	14.0
R	265.2625	19.1	4.7		14.4	73	517.2500	16.6	1.6	S	15.0
S	271.2625	20.4	7.3		13.1	74	523.2500	16.7	2.4	S	14.3
T	277.2625	20.0	8.9		11.1	75	529.2500	16.9	1.5	S	15.4
U	283.2625	19.4	5.8		13.6	76	535.2500	16.8	4.4	S	12.4
V	289.2625	20.8	8.0		12.8	77	541.2500	16.2	1.8	S	14.4
W	295.2625	19.6	6.6		13.0	78	547.2500	16.1	1.4	S	14.7

PEAK TO VALLEY: 5.9

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

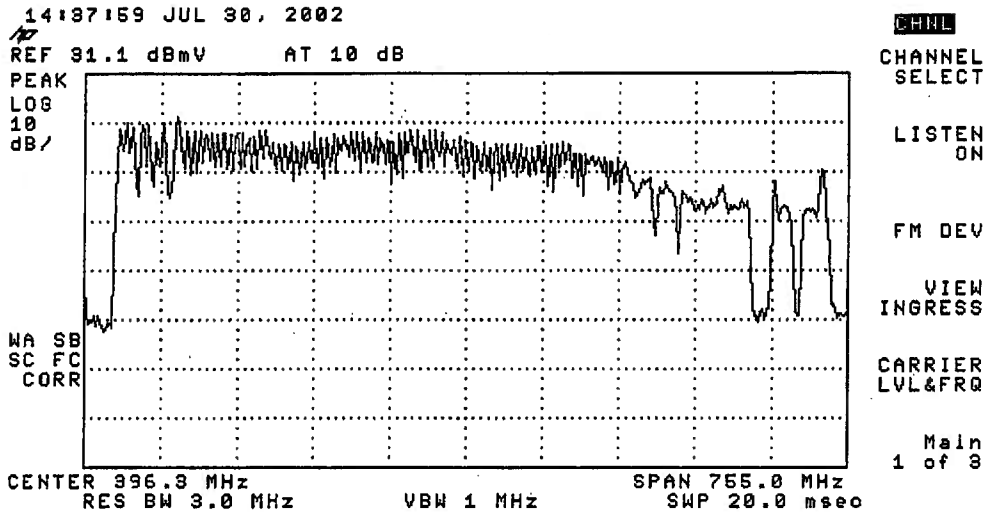
System Name: TIME WARNER ROME/ONEIDA **Date:** JULY 26,2002

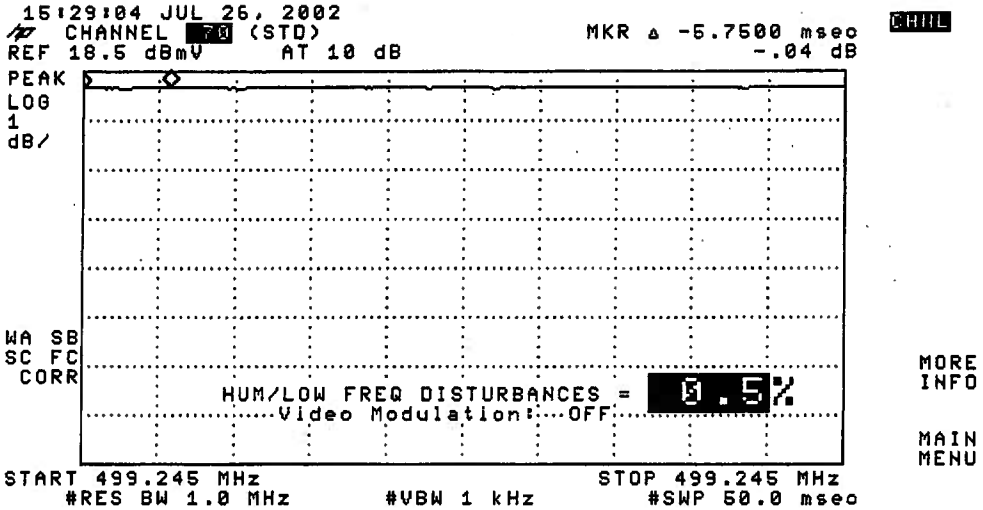
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: FAIRVIEW AVE. ONEIDA

Note: Make measurements through a 100 ft. test drop cable without converter.

3	0.30	48.6	58.1	72.2		
19	0.50	48.8	66.1	77.1		
7	0.30	48.5	65.5	75.0		
31	0.30	47.7	64.3	68.9		
36	0.10	48.6	62.3	68.6		
43	0.10	48.5	63.5	68.1		
47	0.30	48.4	64.0	69.1		
55	0.40	48.3	61.2	66.5		
70	0.30	48.1	61.6	69.4		0.5


14:37:59 JUL 30, 2002
REF 91.1 dBmV
AT 10 dB
PEAK
LOG
10
dB/
WA SB
SC FC
CORR
CENTER 396.3 MHz
RES BW 3.0 MHz
VBW 1 MHz
SPAN 755.0 MHz
SWP 20.0 mseo
CHNL
CHANNEL SELECT
LISTEN ON
FM DEV
VIEW INGRESS
CARRIER LVL&FRQ
Main
1 of 3


15:29:04 JUL 26, 2002
CHANNEL 70 (STD)
REF 18.5 dBmV
AT 10 dB
MKR Δ -5.7500 mseo
-.04 dB
CHIL
PEAK
LOG
1
dB/
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.5%
Video Modulation: OFF
MORE
INFO
MAIN
MENU
START 499.245 MHz
#RES BW 1.0 MHz
#VBW 1 kHz
STOP 499.245 MHz
#SWP 50.0 mseo

Time Warner Cable
Syracuse Division

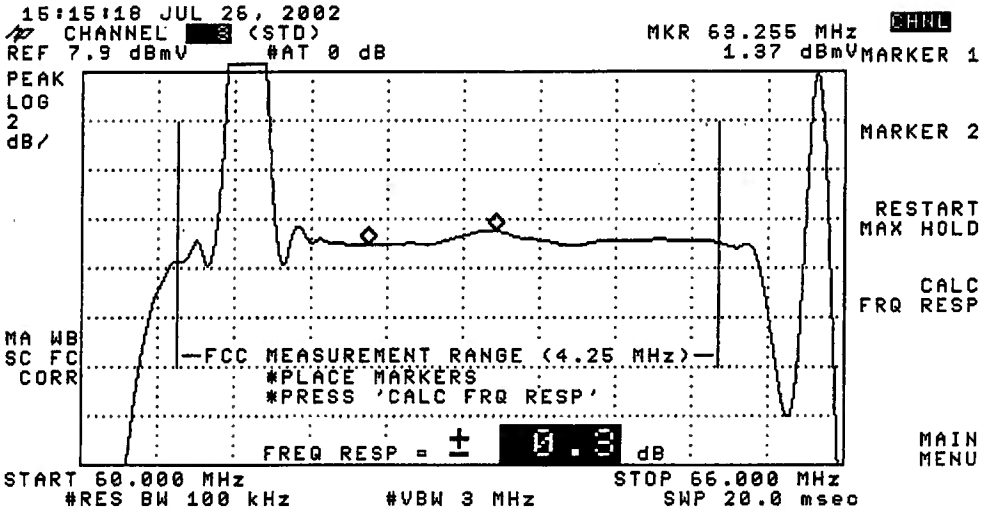
IN - CHANNEL FREQUENCY RESPONSE TEST

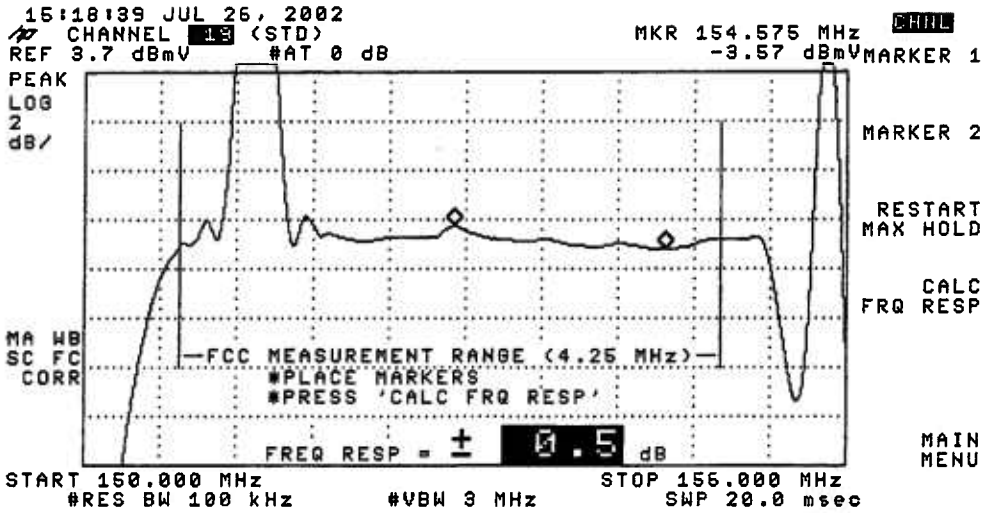
(76.605 (a) 6)

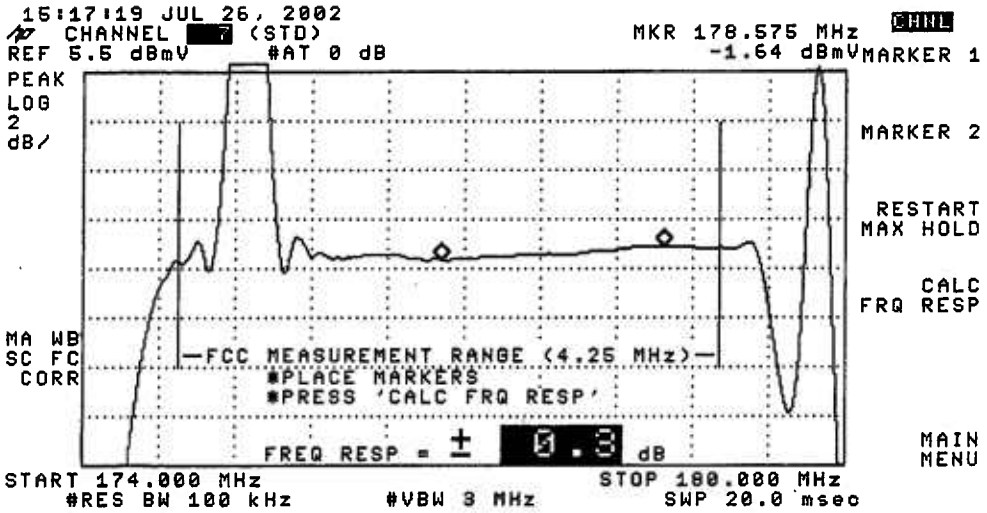
System Name: ROME/ONEIDA Date: AUGUST 22,2002

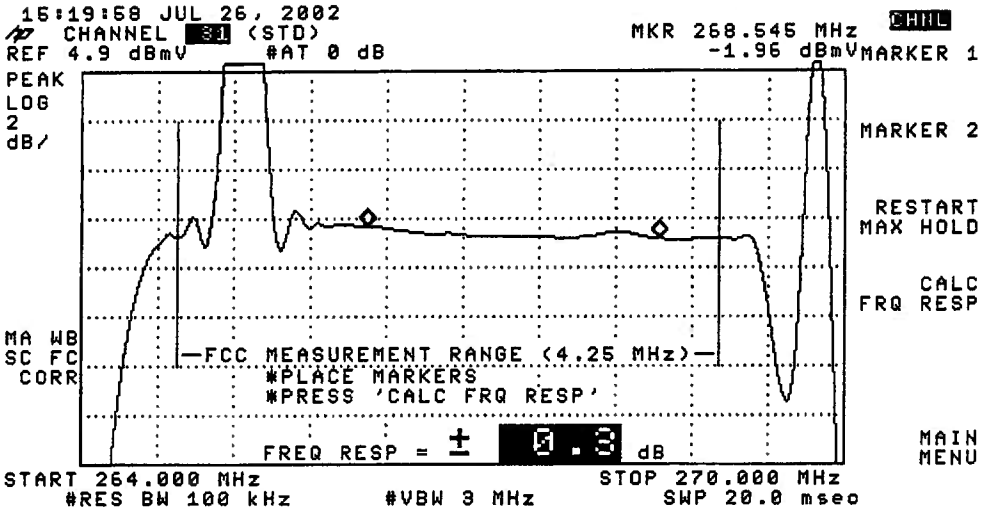
Test Performed By: MARK D'AOUST/JOEL MARMON Location: FAIRVIEW AVE.

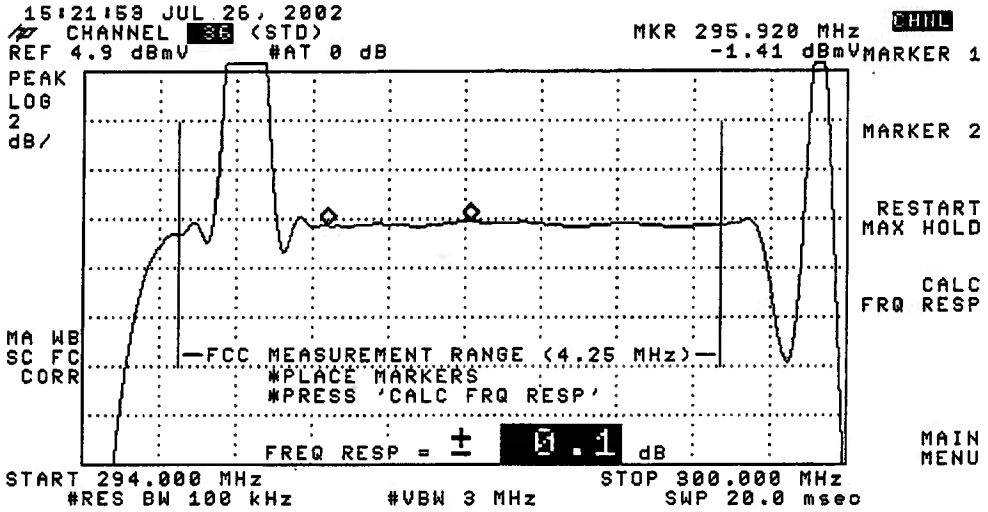
(SEE THE ATTATCHED SWEEP TRACES)

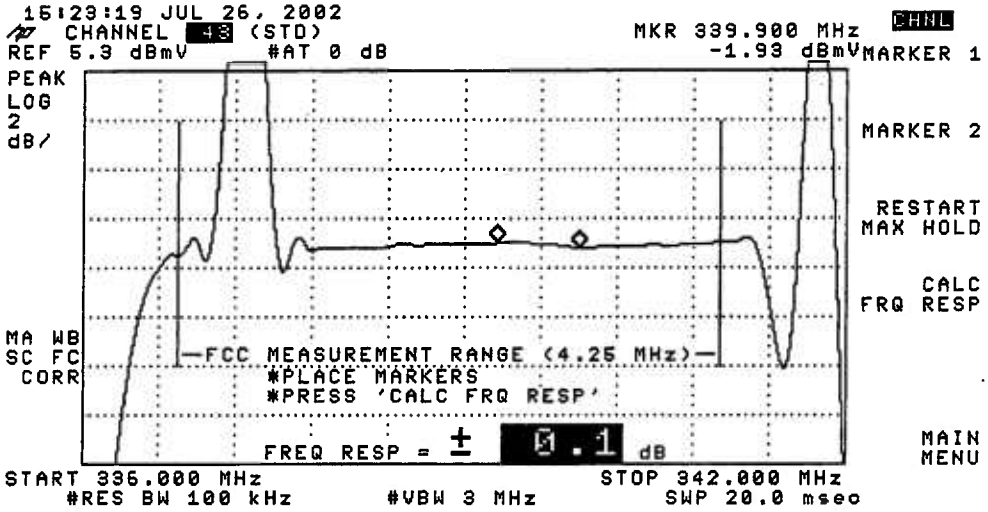

15:15:18 JUL 26, 2002
CHANNEL 3 (STD)
REF 7.9 dBmV
#AT 0 dB
MKR 63.255 MHz
1.37 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

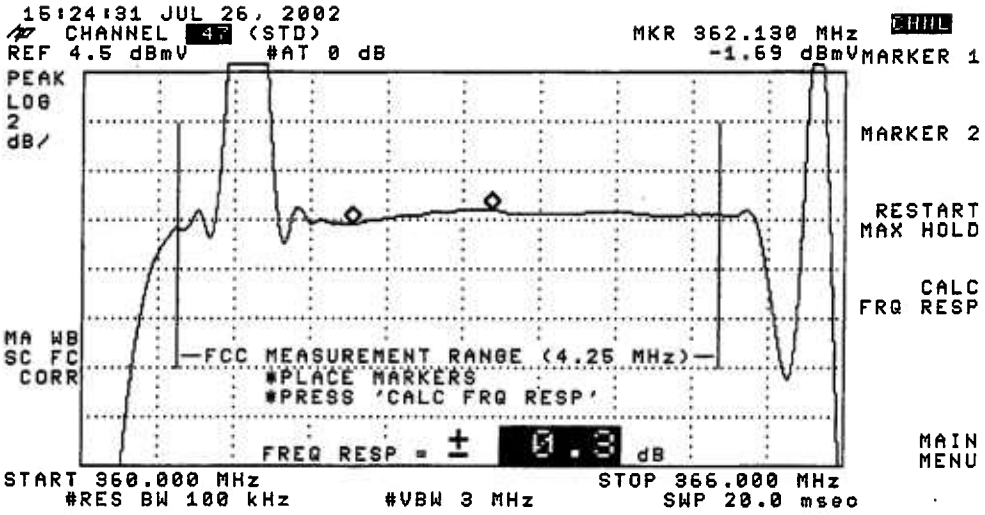

15:18:39 JUL 26, 2002
CHANNEL 13 (STD)
REF 3.7 dBmV
#AT 0 dB
MKR 154.575 MHz
-3.57 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.5 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 155.000 MHz
SWP 20.0 msec

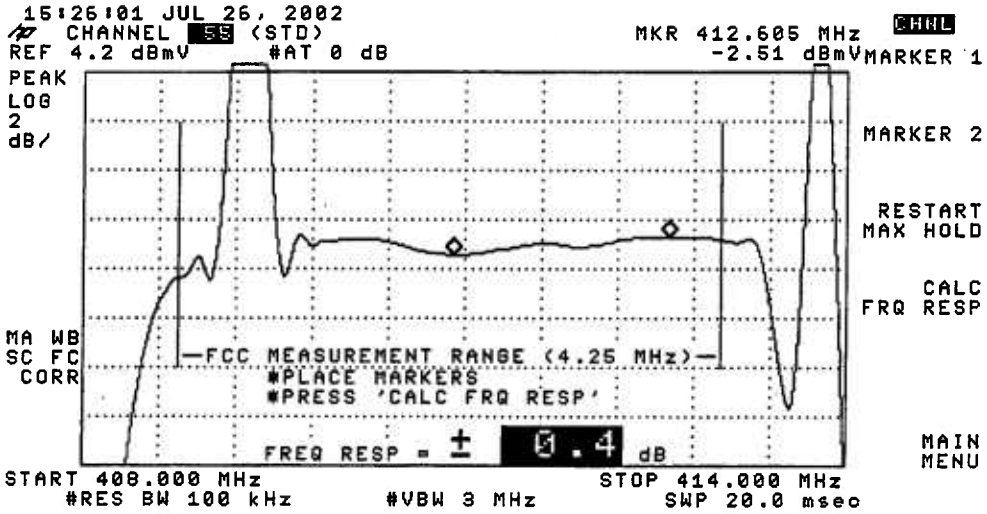

15:17:19 JUL 26, 2002
CHANNEL 7 (STD)
REF 5.5 dBmV
#AT 0 dB
MKR 178.575 MHz
-1.64 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 174.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 180.000 MHz
SWP 20.0 msec

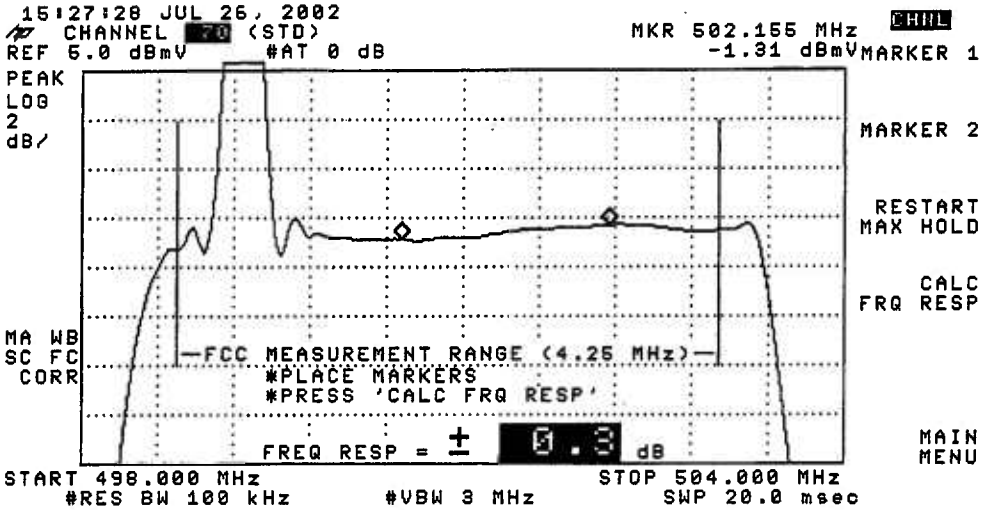

15:19:58 JUL 26, 2002
CHANNEL S1 (STD)
REF 4.9 dBmV
#AT 0 dB
MKR 268.545 MHz
-1.96 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 6.3 dB
MAIN
MENU
START 264.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 270.000 MHz
SWP 20.0 msec

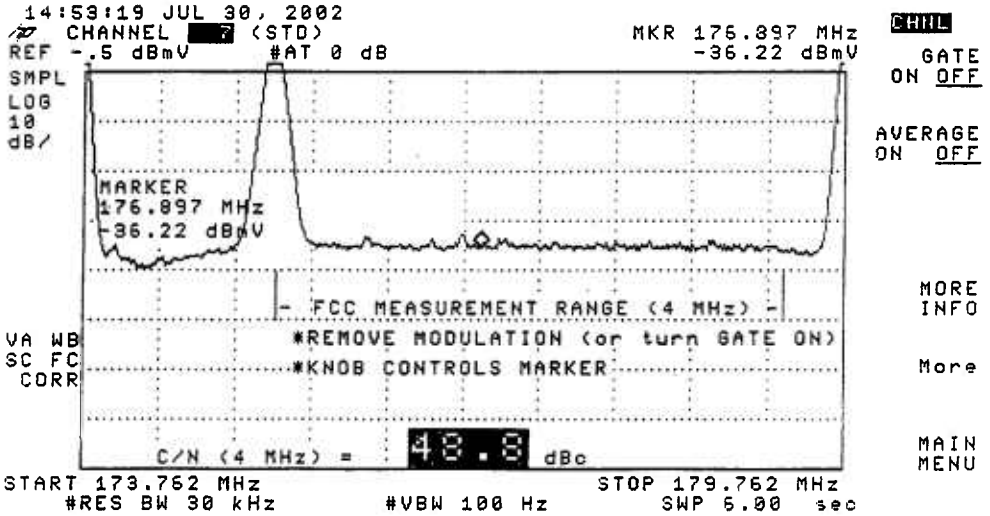

15:21:59 JUL 26, 2002
CHANNEL 36 (STD)
REF 4.9 dBmV
#AT 0 dB
MKR 295.920 MHz
-1.41 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 294.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 300.000 MHz
SWP 20.0 msec

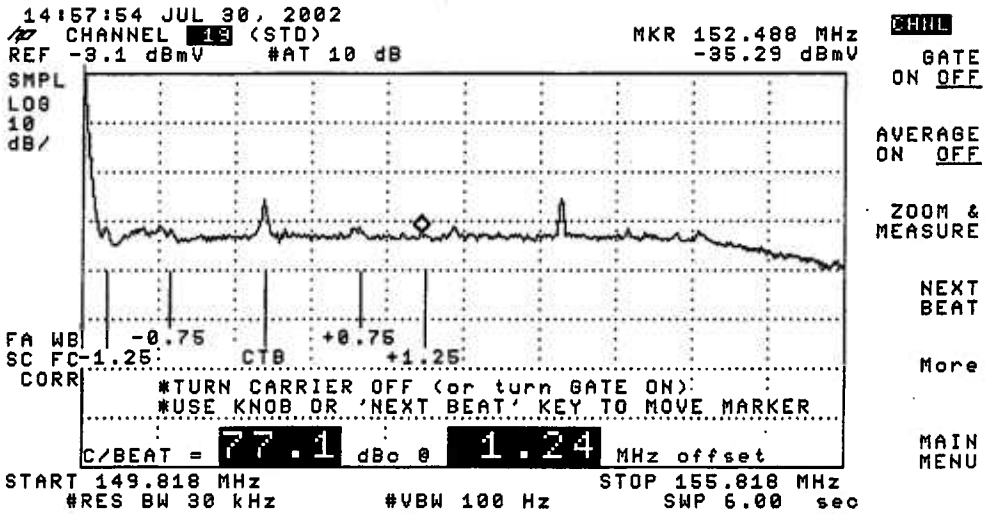

15:23:19 JUL 26, 2002
CHANNEL 48 (STD)
REF 5.3 dBmV
#AT 0 dB
MKR 339.900 MHz
-1.93 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 336.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 342.000 MHz
SWP 20.0 msec

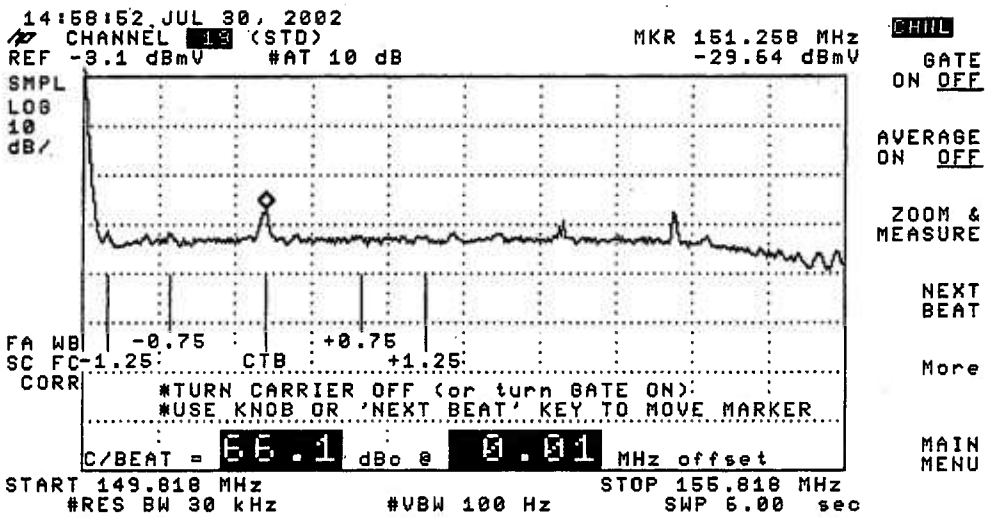

15:24:31 JUL 26, 2002
CHANNEL 47 (STD)
REF 4.5 dBmV
#AT 0 dB
MKR 362.130 MHz
-1.69 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 360.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 366.000 MHz
SWP 20.0 msec


15:26:01 JUL 26, 2002
CHANNEL 55 (STD)
REF 4.2 dBmV
#AT 0 dB
MKR 412.605 MHz
-2.51 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.4 dB
MAIN
MENU
START 408.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 414.000 MHz
SWP 20.0 msec


15:27:28 JUL 26, 2002
CHANNEL 70 (STD)
REF 5.0 dBmV
#AT 0 dB
MKR 502.155 MHz
-1.31 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 498.000 MHz
STOP 504.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec


14:53:19 JUL 30, 2002
CHANNEL 7 (STD)
REF -.5 dBmV
#AT 0 dB
MKR 176.897 MHz
-36.22 dBmV
CHNL
GATE
ON OFF
AVERAGE
ON OFF
SMPL
LOG
10
dB/
MARKER
176.897 MHz
-36.22 dBmV
- FCC MEASUREMENT RANGE (4 MHz) -
*REMOVE MODULATION (or turn GATE ON)
*KNOB CONTROLS MARKER
VA WB
SC FC
CORR
MORE
INFO
More
C/N (4 MHz) = 48.8 dBc
MAIN
MENU
START 173.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 5.00 sec


14:57:54 JUL 30, 2002
CHANNEL 19 (STD)
REF -3.1 dBmV
#AT 10 dB
MKR 152.488 MHz
-35.29 dBmV
CHNL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
FA WB
SC FC
CORR
-0.75
-1.25
CTB
+0.75
+1.25
More
#TURN CARRIER OFF (or turn GATE ON)
#USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 77.1 dBc @ 1.24 MHz offset
MAIN
MENU
START 149.818 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 155.818 MHz
SWP 6.00 sec


14:58:52 JUL 30, 2002
CHANNEL 13 (STD)
REF -3.1 dBmV
#AT 10 dB
MKR 151.258 MHz
-29.64 dBmV
CHIL
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-0.75
-1.25
CTB
+0.75
+1.25
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 66.1 dBo @ 0.01 MHz offset
START 149.818 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 155.818 MHz
SWP 6.00 sec

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location FAIRVIEW AVE., ONEIDA

Date: AUG. 11, 2002 Performed by MARK D'AOUST

Meter Serial Number: CALAN 3010#US37241488

Chan	Freq (MHz)	Temp °F 76 / Time 09:30	86 / 15:30	83 / 21:30	75 / 03:30	Max Variation
		Visual Level (dbmV)				
2	55.2500	20.9	20.1	21.3	22.0	1.9
3	61.2500	21.5	21.1	22.2	22.4	1.3
4	67.2500	21.3	20.8	22.0	22.5	1.7
5	77.2500	21.1	20.4	21.8	21.9	1.5
6	83.2500	20.9	20.2	21.4	21.7	1.5
A-5	91.2500	22.0	21.3	22.8	23.0	1.7
A-4	97.2500	22.1	21.5	22.7	23.0	1.5
A-3	103.2500					
A-2	109.2750					
A-1	115.2750	19.9	18.7	20.7	21.4	2.7
A	121.2625	20.4	19.7	20.9	21.1	1.4
B	127.2625	20.7	20.2	21.2	21.6	1.4
C	133.2625	20.2	19.5	20.6	20.9	1.4
D	139.2500	20.2	19.4	20.6	21.1	1.7
E	145.2500	19.7	19.5	20.4	20.7	1.2
F	151.2500	19.1	18.7	19.6	19.9	1.2
G	157.2500	20.0	18.8	20.6	20.8	2.0
H	163.2500	20.2	19.5	20.5	21.0	1.5
I	169.2500	19.8	19.4	20.4	20.9	1.5
7	175.2500	19.8	19.3	20.1	20.7	1.4
8	181.2500	19.9	19.4	20.4	20.7	1.3
9	187.2500	18.9	18.1	19.4	19.9	1.8
10	193.2500	20.6	19.7	21.0	21.3	1.6
11	199.2500	20.7	20.0	21.0	20.0	1.0
12	205.2500	18.0	17.3	18.9	19.4	2.1
13	211.2500	18.9	18.4	19.3	19.8	1.4
J	217.2500	18.6	18.1	19.2	19.6	1.5
K	223.2500	18.6	18.1	19.2	19.4	1.3
L	229.2625	18.0	17.4	18.6	18.9	1.5
M	235.2625	19.0	18.7	19.7	20.2	1.5
N	241.2625	19.0	19.0	19.0	19.0	0.0
O	247.2625	20.9	20.6	20.9	20.8	0.3
P	253.2625	18.4	17.8	19.1	19.4	1.6
Q	259.2625	20.0	19.7	20.7	21.1	1.4
R	265.2625	19.1	18.6	19.8	20.2	1.6
S	271.2625	20.4	20.1	21.0	21.4	1.3
T	277.2625	20.0	19.7	20.4	20.7	1.0
U	283.2625	19.4	19.2	20.2	20.2	1.0
V	289.2625	20.8	20.5	21.8	21.9	1.4
W	295.2625	19.6	18.9	20.1	20.7	1.8

Chan	Freq (MHz)	Temp °F 76 / Time 09:30	86 / 15:30	83 / 21:30	75 / 03:30	Max Variation
		Visual Level (dbmV)				
AA	301.2625	19.8	19.5	20.6	20.9	1.4
BB	307.2625	19.6	19.2	20.5	20.6	1.4
CC	313.2625	19.9	19.4	20.5	20.8	1.4
DD	319.2625	19.5	19.2	20.0	20.6	1.4
EE	325.2625	18.6	18.3	19.8	20.4	2.1
FF	331.2750	19.8	19.2	20.5	20.9	1.7
GG	337.2625	20.0	19.5	20.7	21.1	1.6
HH	343.2625	20.5	20.1	21.4	21.3	1.3
II	349.2625	20.0	19.5	20.6	21.0	1.5
JJ	355.2625	20.5	19.9	21.1	21.4	1.5
KK	361.2625	19.6	19.4	20.3	20.9	1.5
LL	367.2625	21.5	20.9	22.1	22.5	1.6
MM	373.2625	19.1	18.7	19.8	20.3	1.6
NN	379.2625	19.2	18.8	19.8	20.4	1.6
OO	385.2625	19.3	18.4	20.0	20.5	2.1
PP	391.2625	18.8	18.2	19.4	19.9	1.7
QQ	397.2625	18.2	17.7	18.8	19.2	1.5
RR	403.2500	18.5	17.7	18.9	19.4	1.7
SS	409.2500	17.5	16.8	18.1	18.6	1.8
TT	415.2500	17.4	16.8	18.0	18.5	1.7
UU	421.2500	17.1	16.5	18.0	18.2	1.7
VV	427.2500	16.9	16.6	17.8	18.2	1.6
WW	433.2500	17.7	17.1	18.4	18.7	1.6
XX	439.2500	17.3	16.5	17.7	18.2	1.7
YY	445.2500	18.5	17.9	19.1	19.5	1.6
ZZ	451.2500	17.2	16.3	17.7	18.2	1.9
63	457.2500	17.3	16.5	17.9	18.2	1.7
64	463.2500	17.0	16.2	17.6	18.0	1.8
65	469.2500	17.6	16.9	18.3	18.7	1.8
66	475.2500	17.3	16.7	18.0	18.4	1.7
67	481.2500	17.8	17.1	18.5	18.9	1.8
68	487.2500	18.0	17.1	18.5	19.0	1.9
69	493.2500	17.5	16.8	18.3	18.7	1.9
70	499.2500	17.7	17.2	18.5	18.8	1.6
71	505.2500	17.2	16.6	18.0	18.3	1.7
72	511.2500	17.5	16.8	18.2	18.7	1.9
73	517.2500	16.6	16.3	17.6	17.9	1.6
74	523.2500	16.7	16.1	17.5	18.1	2.0
75	529.2500	16.9	16.6	17.6	18.2	1.6
76	535.2500	16.8	16.0	17.7	18.1	2.1
77	541.2500	16.2	15.5	16.8	17.2	1.7
78	547.2500	16.1	15.4	16.8	17.3	1.9

Max NonAdjacent Channel Level Diff.	6.1
Max Adjacent Channel Level Diff.	2.8

Max Variance from last proof-of-performance test	7.5
Date of last proof-of-performance test	FEB.24,2002

Note: Make measurements through a 100 ft. test drop cable without a converter.

TestPoint 5 Page 5 of 5

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

System Test Point # 6

Location: HUMASTON RD

Community: CITY OF ROME

Pole Number: NM/12

D.T. Value: 17/4

Map Number: 488-5714

OR Number: 843

Trunk Cascade: 3 LE Cascade: 3

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **HUMASTON ROAD**

Date: 05-Aug-02

Time: 07:30 AM

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)
2	55.2500	22.5	10.5		12.0	AA	301.2625	25.1	11.1		14.0
3	61.2500	24.2	10.6		13.6	BB	307.2625	25.3	10.9		14.4
4	67.2500	24.8	10.6		14.2	CC	313.2625	25.4	11.6		13.8
5	77.2500	23.7	10.9		12.8	DD	319.2625	25.5	11.5		14.0
6	83.2500	23.9	10.2		13.7	EE	325.2625	25.2	12.4		12.8
						FF	331.2750	25.5	12.4		13.1
						GG	337.2625	25.6	10.9	S	14.7
A-5	91.2500	24.6	10.0	S	14.6	HH	343.2625	25.7	12.0		13.7
A-4	97.2500	24.3	10.2		14.1	II	349.2625	25.8	12.6		13.2
A-3	103.2500					JJ	355.2625	26.2	12.2		14.0
A-2	109.2750					KK	361.2625	26.1	12.7		13.4
A-1	115.2750	22.7	9.4	S	13.3	LL	367.2625	26.2	12.4		13.8
A	121.2625	23.5	10.7		12.8	MM	373.2625	26.4	11.8		14.6
B	127.2625	22.9	9.2		13.7	NN	379.2625	26.2	12.8		13.4
C	133.2625	22.8	9.7		13.1	OO	385.2625	26.3	15.3		11.0
D	139.2500	23.4	8.8	S	14.6	PP	391.2625	26.3	10.3	S	16.0
E	145.2500	23.3	10.1		13.2	QQ	397.2625	26.1	13.6	S	12.5
F	151.2500	23.3	9.2		14.1	RR	403.2500	26.3	11.6	S	14.7
G	157.2500	24.4	8.8		15.6	SS	409.2500	26.1	11.4	S	14.7
H	163.2500	23.4	9.5		13.9	TT	415.2500	26.2	13.0		13.2
I	169.2500	23.6	9.4		14.2	UU	421.2500	26.0	15.2	S	10.8
7	175.2500	23.9	10.4		13.5	VV	427.2500	25.7	12.0		13.7
8	181.2500	24.4	10.5		13.9	WW	433.2500	26.4	12.2	S	14.2
9	187.2500	23.8	10.2		13.6	XX	439.2500	26.3	10.5	S	15.8
10	193.2500	24.0	10.2		13.8	YY	445.2500	26.3	12.2		14.1
11	199.2500	24.5	10.4		14.1	ZZ	451.2500	26.4	10.8	S	15.6
12	205.2500	23.0	6.8		16.2	63	457.2500	26.1	11.3	S	14.8
13	211.2500	24.1	10.7		13.4	64	463.2500	25.9	11.4	S	14.5
J	217.2500	24.3	11.9		12.4	65	469.2500	26.3	11.4	S	14.9
K	223.2500	24.2	9.4		14.8	66	475.2500	26.0	12.0	S	14.0
L	229.2625	23.9	8.3	S	15.6	67	481.2500	26.3	11.5	S	14.8
M	235.2625	24.4	10.3		14.1	68	487.2500	26.7	12.6	S	14.1
N	241.2625	24.3	10.9		13.4	69	493.2500	26.5	12.1	S	14.4
O	247.2625	24.3	10.1		14.2	70	499.2500	26.7	12.5	S	14.2
P	253.2625	24.1	10.3		13.8	71	505.2500	27.0	13.0	S	14.0
Q	259.2625	24.4	9.9		14.5	72	511.2500	27.4	13.0	S	14.4
R	265.2625	24.5	9.7		14.8	73	517.2500	27.6	12.8	S	14.8
S	271.2625	24.2	11.0		13.2	74	523.2500	27.0	12.9	S	14.1
T	277.2625	24.5	10.5		14.0	75	529.2500	27.9	13.2	S	14.7
U	283.2625	24.3	10.7		13.6	76	535.2500	28.4	16.0	S	12.4
V	289.2625	24.1	10.6		13.5	77	541.2500	28.3	15.1	S	13.2
W	295.2625	24.9	12.2		12.7	78	547.2500	28.5	14.2	S	14.3

PEAK TO VALLEY: 5.9

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

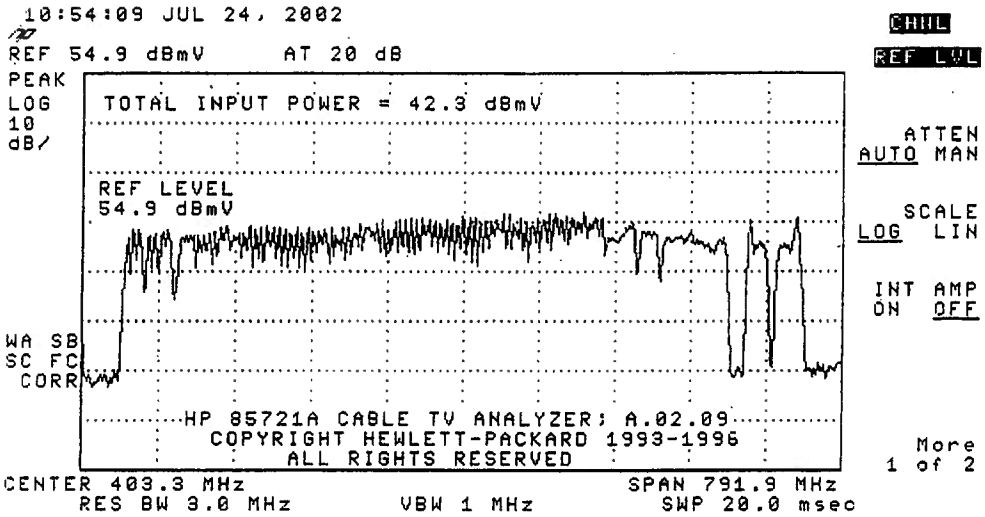
System Name: TIME WARNER ROME/ONEIDA **Date:** JULY 24,2002

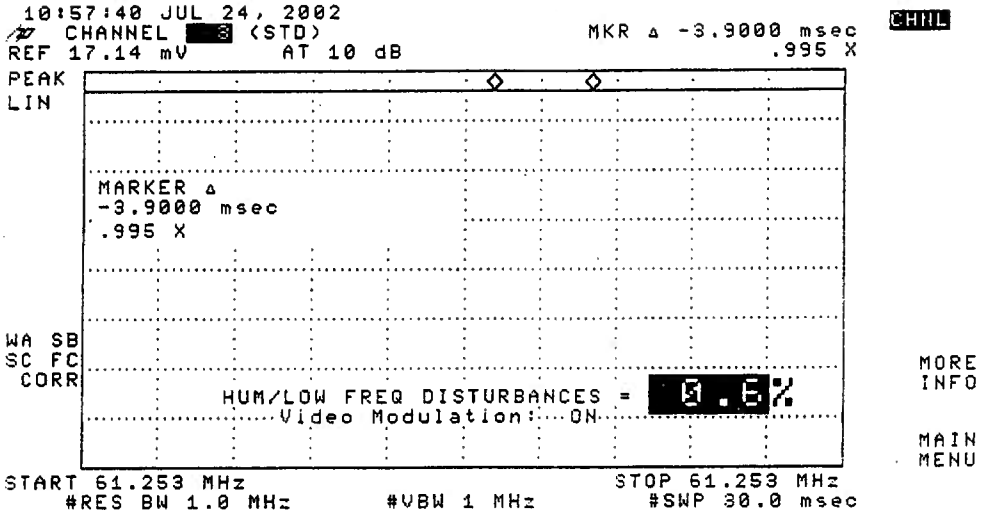
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: HUMASTON RD.ROME

Note: Make measurements through a 100 ft. test drop cable without converter.

3	0.20	48.5	67.1	77.8		0.6
19	0.30	49.9	64.6	68.3		
7	0.20	51.0	62.9	68.4		
31	0.30	50.6	60.6	66.4		
36	0.20	49.8	59.6	65.0		
43	0.10	49.9	60.3	66.1		
47	0.20	50.3	60.7	65.9		
55	0.10	49.1	60.5	66.4		
70	0.50	48.2	60.4	68.3		


10:54:09 JUL 24, 2002
REF 54.9 dBmV
AT 20 dB
PEAK
LOG
10
dB/
TOTAL INPUT POWER = 42.3 dBmV
REF LEVEL
54.9 dBmV
WA SB
SC FC
CORR
HP 85721A CABLE TV ANALYZER; A.02.09
COPYRIGHT HEWLETT-PACKARD 1993-1996
ALL RIGHTS RESERVED
CENTER 403.3 MHz
SPAN 791.9 MHz
RES BW 3.0 MHz
VBW 1 MHz
SWP 20.0 msec
CHNL
REF LVL
ATTEN
AUTO MAN
SCALE
LOG LIN
INT AMP
ON OFF
More
1 of 2


10:57:40 JUL 24, 2002
CHANNEL 3 (STD)
MKR Δ -3.9000 msec
.995 X
REF 17.14 mV
AT 10 dB
CHNL
PEAK
LIN
MARKER Δ
-3.9000 msec
.995 X
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.6%
Video Modulation: ON
MORE
INFO
MAIN
MENU
START 61.253 MHz
STOP 61.253 MHz
#RES BW 1.0 MHz
#VBW 1 MHz
#SWP 30.0 msec

Time Warner Cable
Syracuse Division

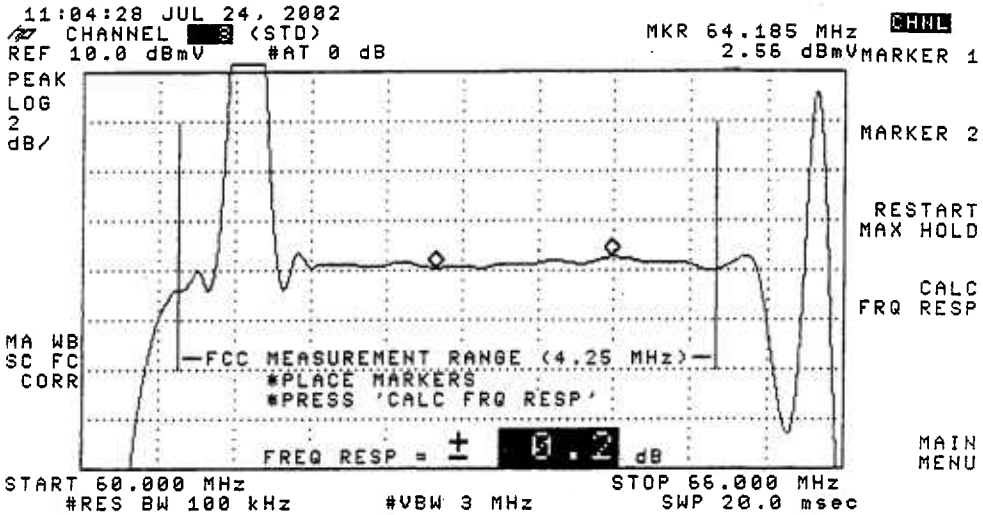
IN - CHANNEL FREQUENCY RESPONSE TEST

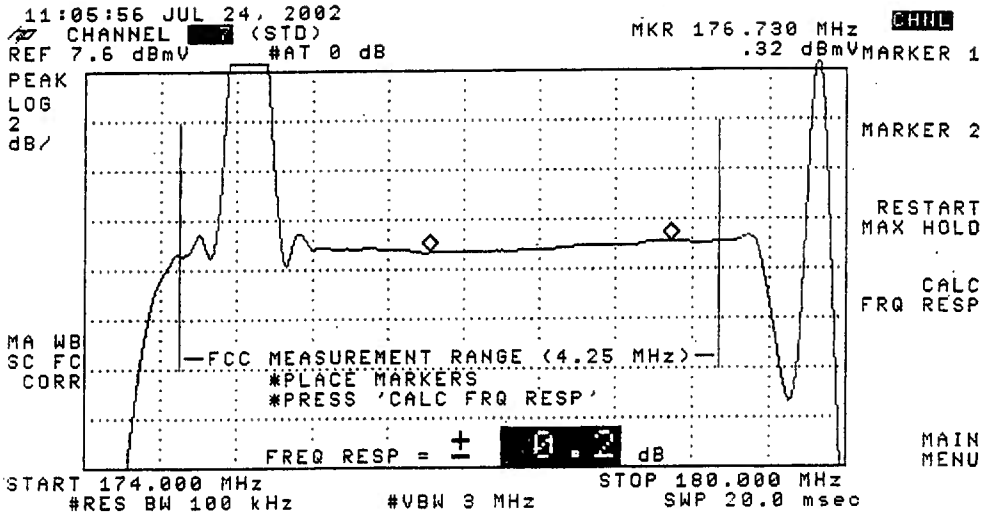
(76.605 (a) 6)

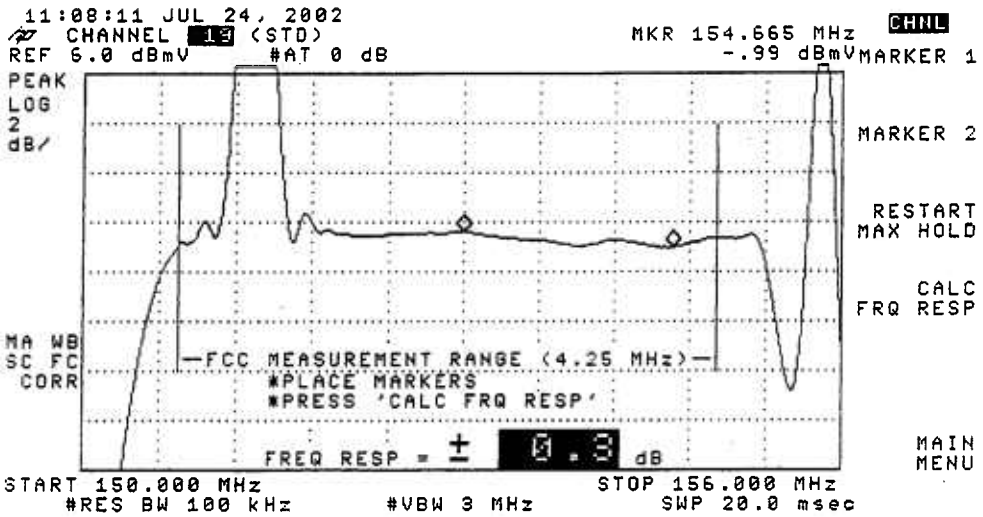
System Name: ROME/ONEIDA Date: AUGUST 22,2002

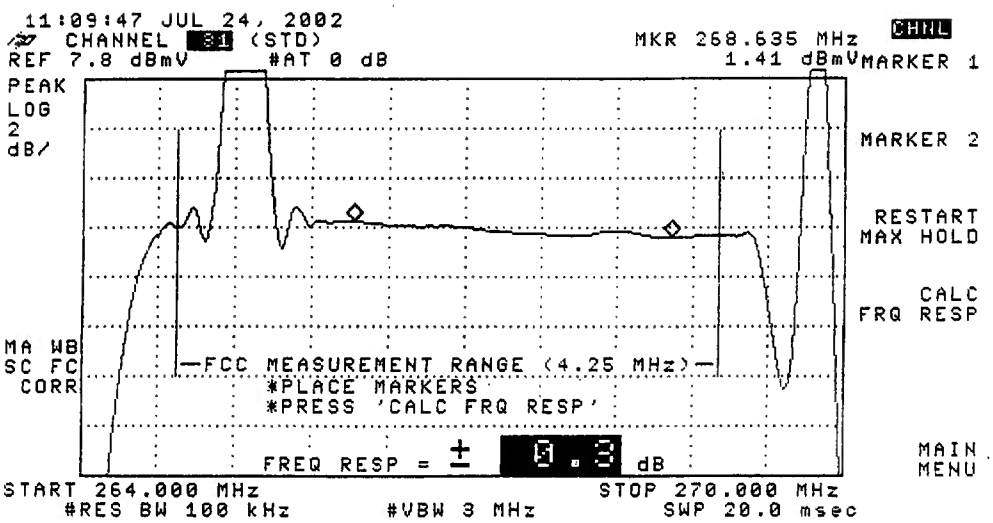
Test Performed By: MARK D'AOUST/JOEL MARMON Location: HUMASTON RD, ROME

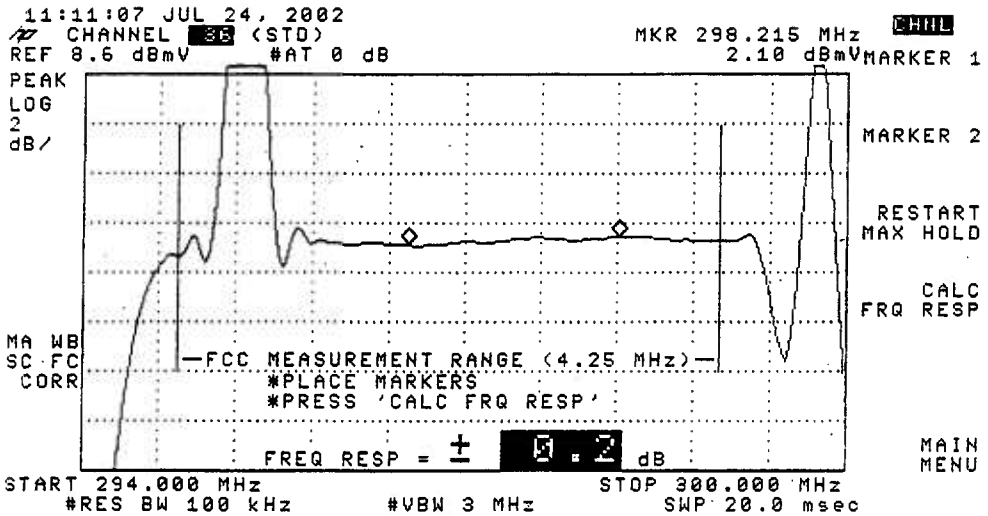
(SEE THE ATTATCHED SWEEP TRACES)

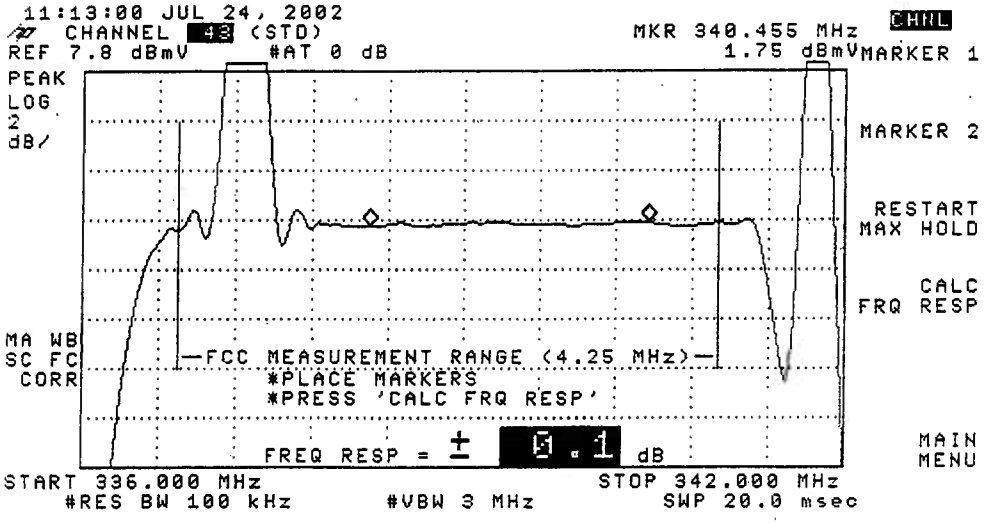

11:04:28 JUL 24, 2002
CHANNEL 3 (STD)
REF 10.0 dBmV
#AT 0 dB
MKR 64.185 MHz
2.56 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

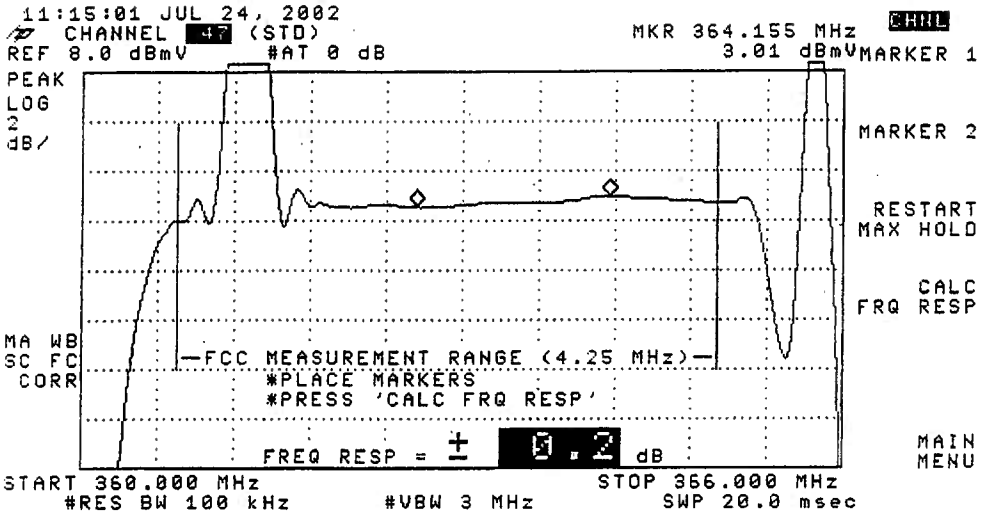

11:05:56 JUL 24, 2002
CHANNEL 7 (STD)
REF 7.6 dBmV
#AT 0 dB
MKR 176.730 MHz
.32 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 174.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 180.000 MHz
SWP 20.0 msec

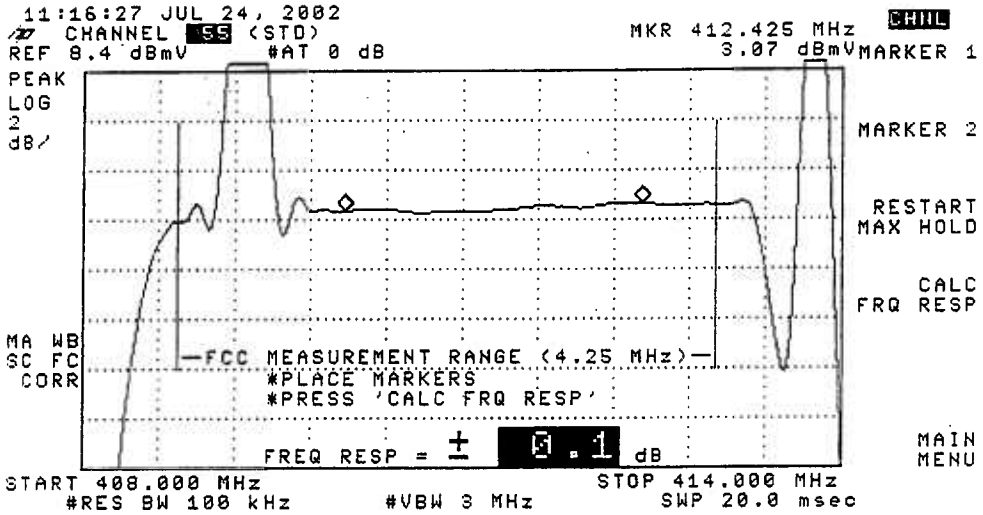

11:08:11 JUL 24, 2002
CHANNEL 13 (STD)
REF 6.0 dBmV
#AT 0 dB
MKR 154.665 MHz
-.99 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 156.000 MHz
SWP 20.0 msec

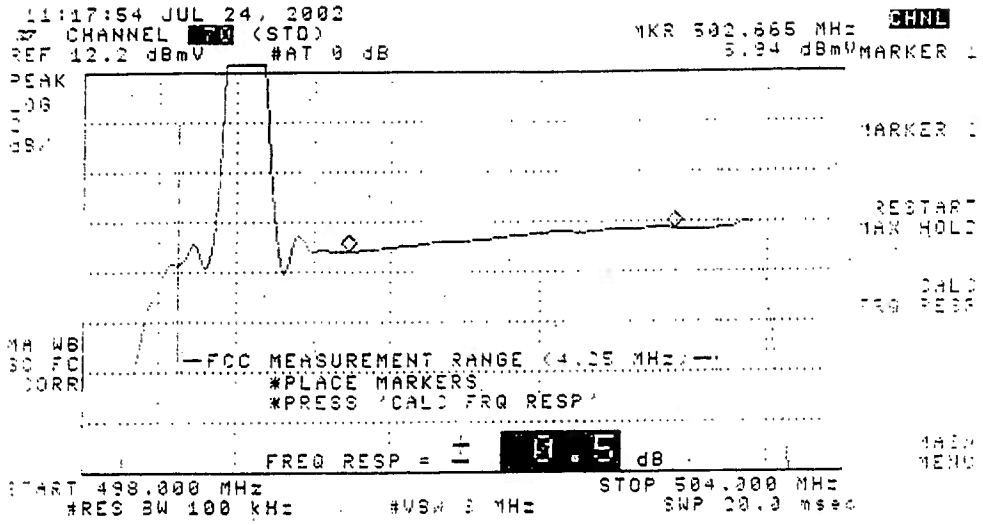

11:09:47 JUL 24, 2002
CHANNEL 31 (STD)
REF 7.8 dBmV
#AT 0 dB
MKR 268.635 MHz
1.41 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 264.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 270.000 MHz
SWP 20.0 msec

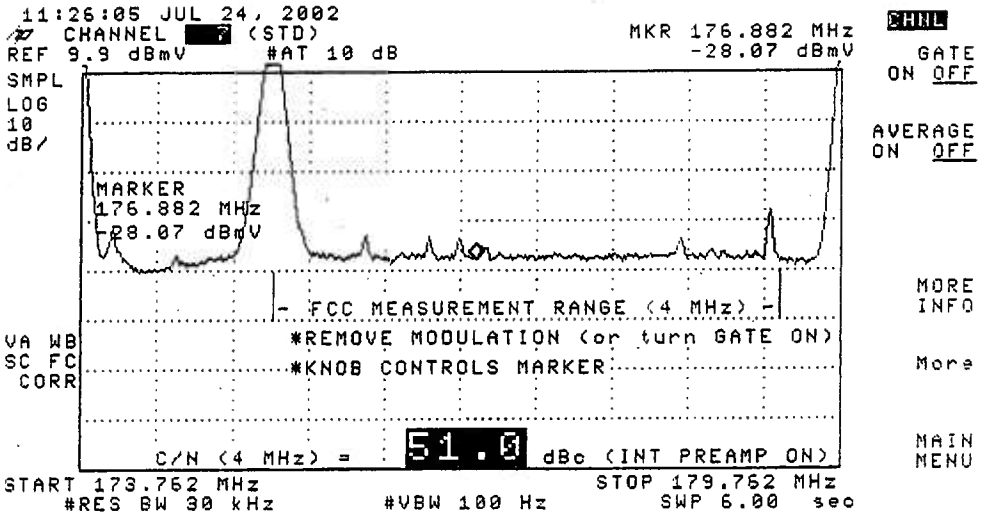

11:11:07 JUL 24, 2002
CHANNEL 38 (STD)
MKR 298.215 MHz
2.10 dBmV
CHNL
REF 8.6 dBmV
#AT 0 dB
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 294.000 MHz
STOP 300.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec

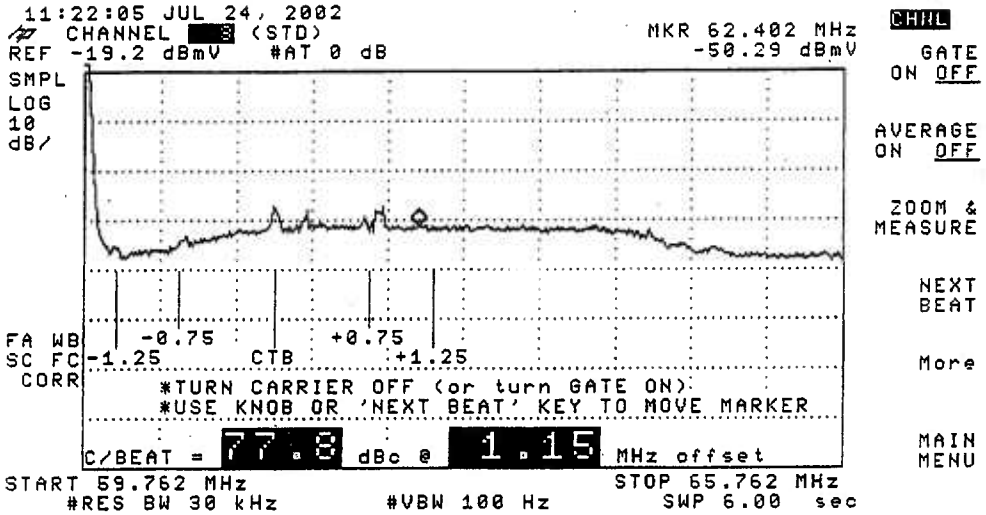

11:13:00 JUL 24, 2002
CHANNEL 43 (STD)
REF 7.8 dBmV
#AT 0 dB
MKR 340.455 MHz
1.75 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 5.1 dB
MAIN
MENU
START 336.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 342.000 MHz
SWP 20.0 msec

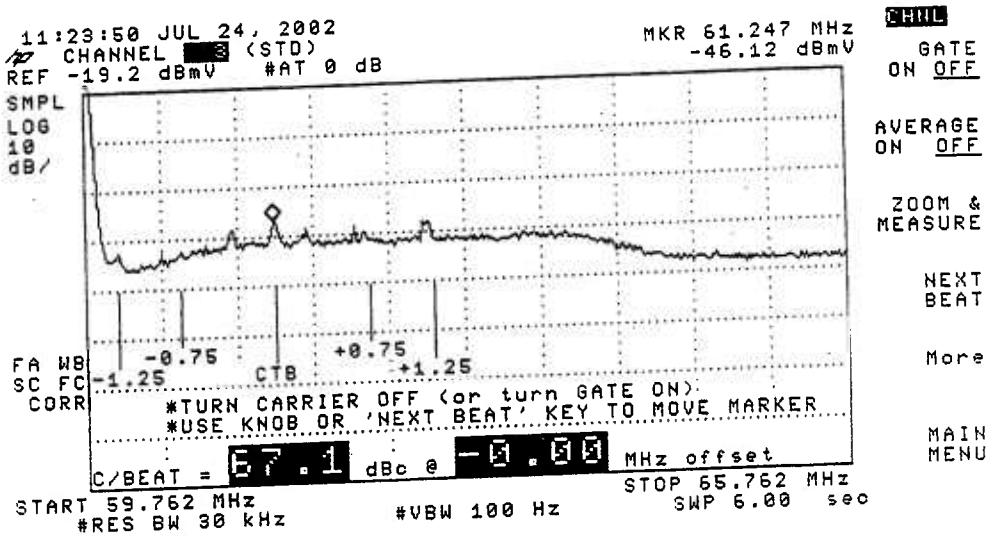

11:15:01 JUL 24, 2002
CHANNEL 47 (STD)
REF 8.0 dBmV
#AT 0 dB
MKR 364.155 MHz
3.01 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 360.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 366.000 MHz
SWP 20.0 msec


11:16:27 JUL 24, 2002
CHANNEL 55 (STD)
REF 8.4 dBmV
#AT 0 dB
MKR 412.425 MHz
3.07 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 408.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 414.000 MHz
SWP 20.0 msec


11:17:54 JUL 24, 2002
CHANNEL 70 (STD)
MKR 502.665 MHz
5.94 dBmV
CHNL
REF 12.2 dBmV
#AT 0 dB
MARKER 1
PEAK
LOG
dB/
MARKER 1
RESTART
MKR HOLD
CAL'D
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CAL'D FRQ RESP'
MAIN
MENU
FREQ RESP = ± 0.5 dB
START 498.000 MHz
STOP 504.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec


11:26:05 JUL 24, 2002
CHANNEL 7 (STD)
REF 9.9 dBmV
#AT 10 dB
MKR 176.882 MHz
-28.07 dBmV
CHNL
GATE
ON OFF
AVERAGE
ON OFF
SMPL
LOG
10
dB/
MARKER
176.882 MHz
-28.07 dBmV
- FCC MEASUREMENT RANGE (4 MHz) -
*REMOVE MODULATION (or turn GATE ON)
*KNOB CONTROLS MARKER
MORE
INFO
More
VA WB
SC FC
CORR
C/N (4 MHz) = 51.0 dBc (INT PREAMP ON)
MAIN
MENU
START 173.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 6.00 sec


11:22:05 JUL 24, 2002
CHANNEL 3 (STD)
REF -19.2 dBmV
#AT 0 dB
MKR 62.402 MHz
-50.29 dBmV
CHRL
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 77.8 dBc @ 1.15 MHz offset
START 59.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 65.762 MHz
SWP 6.00 sec


11:23:50 JUL 24, 2002
CHANNEL 3 (STD)
REF -19.2 dBmV
#AT 0 dB
MKR 61.247 MHz
-46.12 dBmV
CHNL
GATE ON OFF
AVERAGE ON OFF
ZOOM & MEASURE
NEXT BEAT
More
MAIN MENU
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-1.25
-0.75
CTB
+0.75
+1.25
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 67.1 dBc @ -0.00 MHz offset
START 59.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 65.762 MHz
SWP 6.00 sec

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location HUMASTON ROAD

Date: AUG. 5, 2002 Performed by MARK D'AOUST

Meter Serial Number: CALAN 3010#US37241488

Chan	Freq. (MHz)	Temp:°F 76	84	82	73	Max. Variation
		Time 07:30	13:30	19:30	01:30	
		Visual Level (dbmv)				
2	55.2500	14.1	14.3	14.1	14.3	0.2
3	61.2500	15.7	15.9	15.7	15.9	0.2
4	67.2500	16.2	16.5	16.2	16.5	0.3
5	77.2500	15.4	15.6	15.4	15.6	0.2
6	83.2500	15.5	15.5	15.5	15.5	0.0
A-5	91.2500	16.1	16.0	16.1	16.0	0.1
A-4	97.2500	16.3	16.2	16.3	16.2	0.1
A-3	103.2500					
A-2	109.2750					
A-1	115.2750	14.7	15.2	14.7	15.2	0.5
A	121.2625	15.1	14.9	15.1	14.9	0.2
B	127.2625	14.3	14.9	14.3	14.9	0.6
C	133.2625	14.2	14.2	14.2	14.2	0.0
D	139.2500	14.8	15.0	14.8	15.0	0.2
E	145.2500	14.9	15.1	14.9	15.1	0.2
F	151.2500	14.7	15.1	14.7	15.1	0.4
G	157.2500	15.4	15.9	15.4	15.9	0.5
H	163.2500	15.3	15.4	15.3	15.4	0.1
I	169.2500	15.6	15.1	15.6	15.1	0.5
7	175.2500	15.6	15.3	15.6	15.3	0.3
8	181.2500	15.7	15.6	15.7	15.6	0.1
9	187.2500	15.8	15.2	15.8	15.2	0.6
10	193.2500	15.3	15.3	15.3	15.3	0.0
11	199.2500	15.9	16.0	15.9	16.0	0.1
12	205.2500	14.6	15.0	14.6	15.0	0.4
13	211.2500	15.4	15.7	15.4	15.7	0.3
J	217.2500	15.7	15.8	15.7	15.8	0.1
K	223.2500	15.5	15.5	15.5	15.5	0.0
L	229.2625	15.4	15.4	15.4	15.4	0.0
M	235.2625	15.8	15.8	15.8	15.8	0.0
N	241.2625	15.7	15.8	15.7	15.8	0.1
O	247.2625	15.7	15.7	15.7	15.7	0.0
P	253.2625	15.5	15.7	15.5	15.7	0.2
Q	259.2625	15.9	15.8	15.9	15.8	0.1
R	265.2625	15.7	15.6	15.7	15.6	0.1
S	271.2625	15.3	15.7	15.3	15.7	0.4
T	277.2625	15.6	15.5	15.6	15.5	0.1
U	283.2625	15.8	15.8	15.8	15.8	0.0
V	289.2625	15.6	16.0	15.6	16.0	0.4
W	295.2625	16.2	16.3	16.2	16.3	0.1

Chan	Freq. (MHz)	Temp:°F 76	84	82	73	Max. Variation
		Time 07:30	13:30	19:30	01:30	
		Visual Level (dbmv)				
AA	301.2625	16.5	16.6	16.5	16.6	0.1
BB	307.2625	16.5	16.7	16.5	16.7	0.2
CC	313.2625	16.7	17.1	16.7	17.1	0.4
DD	319.2625	16.6	16.8	16.6	16.8	0.2
EE	325.2625	15.5	16.9	15.5	16.9	1.4
FF	331.2750	16.7	17.1	16.7	17.1	0.4
GG	337.2625	17.0	17.1	17.0	17.1	0.1
HH	343.2625	17.2	17.4	17.2	17.4	0.2
II	349.2625	16.8	17.0	16.8	17.0	0.2
JJ	355.2625	17.4	17.4	17.4	17.4	0.0
KK	361.2625	17.4	17.5	17.4	17.5	0.1
LL	367.2625	17.6	17.6	17.6	17.6	0.0
MM	373.2625	17.5	17.9	17.5	17.9	0.4
NN	379.2625	17.3	17.5	17.3	17.5	0.2
OO	385.2625	17.2	17.4	17.2	17.4	0.2
PP	391.2625	17.5	17.7	17.5	17.7	0.2
QQ	397.2625	17.4	17.7	17.4	17.7	0.3
RR	403.2500	17.5	17.7	17.5	17.7	0.2
SS	409.2500	17.4	17.6	17.4	17.6	0.2
TT	415.2500	17.4	17.6	17.4	17.6	0.2
UU	421.2500	17.2	17.5	17.2	17.5	0.3
VV	427.2500	17.1	17.7	17.1	17.7	0.6
WW	433.2500	17.5	17.9	17.5	17.9	0.4
XX	439.2500	17.6	18.0	17.6	18.0	0.4
YY	445.2500	17.5	17.8	17.5	17.8	0.3
ZZ	451.2500	17.6	18.0	17.6	18.0	0.4
63	457.2500	17.4	17.7	17.4	17.7	0.3
64	463.2500	17.2	17.5	17.2	17.5	0.3
65	469.2500	17.6	18.2	17.6	18.2	0.6
66	475.2500	17.3	17.7	17.3	17.7	0.4
67	481.2500	17.7	18.1	17.7	18.1	0.4
68	487.2500	18.0	18.3	18.0	18.3	0.3
69	493.2500	17.9	18.2	17.9	18.2	0.3
70	499.2500	18.0	18.3	18.0	18.3	0.3
71	505.2500	18.3	18.9	18.3	18.9	0.6
72	511.2500	18.7	19.0	18.7	19.0	0.3
73	517.2500	18.9	19.1	18.9	19.1	0.2
74	523.2500	18.3	18.9	18.3	18.9	0.6
75	529.2500	19.2	19.6	19.2	19.6	0.4
76	535.2500	20.0	20.3	20.0	20.3	0.3
77	541.2500	19.4	19.8	19.4	19.8	0.4
78	547.2500	19.9	20.2	19.9	20.2	0.3

Max NonAdjacent Channel Level Diff.	6.1
Max Adjacent Channel Level Diff.	1.6

Max Variance from last proof-of-performance test	3.1
Date of last proof-of-performance test	FEB.10,2002

Note: Make measurements through a 100 ft. test drop cable without a converter.

TestPoint 6 Page 5 of 5

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

System Test Point # 7

Location: LAKEVIEW DR.

Community: STOKES

Pole Number: NM/5

D.T. Value: 4/2

Map Number: 10-13

OR Number: 840

Trunk Cascade: 6 LE Cascade:

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **LAKEVIEW DRIVE**

Date: 02-Aug-02

Time: 07:15 AM

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)
2	55.2500	17.2	4.0		13.2	AA	301.2625	16.5	2.6		13.9
3	61.2500	18.1	4.7		13.4	BB	307.2625	17.0	2.6		14.4
4	67.2500	18.2	3.8		14.4	CC	313.2625	17.2	3.0		14.2
5	77.2500	17.1	3.7		13.4	DD	319.2625	16.9	2.9		14.0
6	83.2500	16.2	2.1		14.1	EE	325.2625	17.2	4.2		13.0
						FF	331.2750	17.2	3.7		13.5
						GG	337.2625	17.2	2.2	S	15.0
A-5	91.2500	16.3	1.7	S	14.6	HH	343.2625	17.1	3.3		13.8
A-4	97.2500	16.9	2.3		14.6	II	349.2625	16.8	3.2		13.6
A-3	103.2500					JJ	355.2625	16.8	2.9		13.9
A-2	109.2750					KK	361.2625	16.9	3.2		13.7
A-1	115.2750	16.6	2.3	S	14.3	LL	367.2625	16.8	2.4		14.4
A	121.2625	15.9	3.6		12.3	MM	373.2625	16.8	2.3		14.5
B	127.2625	16.2	2.1		14.1	NN	379.2625	16.5	2.6		13.9
C	133.2625	16.5	2.9		13.6	OO	385.2625	15.7	5.5		10.2
D	139.2500	15.9	1.5	S	14.4	PP	391.2625	15.5	-1.4	S	16.9
E	145.2500	15.5	1.1		14.4	QQ	397.2625	14.8	1.6	S	13.2
F	151.2500	15.3	1.6		13.7	RR	403.2500	14.8	0.3	S	14.5
G	157.2500	17.1	2.3		14.8	SS	409.2500	14.9	-0.1	S	15.0
H	163.2500	16.9	3.2		13.7	TT	415.2500	14.6	0.9		13.7
I	169.2500	17.0	2.6		14.4	UU	421.2500	14.8	3.1	S	11.7
7	175.2500	17.4	3.4		14.0	VV	427.2500	14.3	-0.6		14.9
8	181.2500	17.5	3.0		14.5	WW	433.2500	13.5	-1.3	S	14.8
9	187.2500	16.5	2.8		13.7	XX	439.2500	12.2	-4.0	S	16.2
10	193.2500	16.3	2.2		14.1	YY	445.2500	12.4	-1.6		14.0
11	199.2500	16.5	1.9		14.6	ZZ	451.2500	12.7	-2.3	S	15.0
12	205.2500	15.1	-1.5		16.6	63	457.2500	13.8	-0.5	S	14.3
13	211.2500	15.5	2.2		13.3	64	463.2500	14.3	-1.1	S	15.4
J	217.2500	15.7	3.1		12.6	65	469.2500	14.0	-1.8	S	15.8
K	223.2500	15.7	0.5		15.2	66	475.2500	13.6	-1.1	S	14.7
L	229.2625	15.5	-0.8	S	16.3	67	481.2500	12.9	-1.5	S	14.4
M	235.2625	15.4	1.0		14.4	68	487.2500	12.5	-1.3	S	13.8
N	241.2625	14.8	1.3		13.5	69	493.2500	13.2	-0.8	S	14.0
O	247.2625	14.6	0.2		14.4	70	499.2500	13.3	-1.5	S	14.8
P	253.2625	14.6	0.8		13.8	71	505.2500	14.4	0.3	S	14.1
Q	259.2625	15.4	0.8		14.6	72	511.2500	14.5	0.5	S	14.0
R	265.2625	15.6	1.1		14.5	73	517.2500	14.5	-1.7	S	16.2
S	271.2625	15.5	2.6		12.9	74	523.2500	13.6	-0.7	S	14.3
T	277.2625	15.7	1.6		14.1	75	529.2500	14.1	-0.8	S	14.9
U	283.2625	15.6	1.8		13.8	76	535.2500	15.3	2.1	S	13.2
V	289.2625	15.8	2.0		13.8	77	541.2500	14.3	0.7	S	13.6
W	295.2625	16.2	3.2		13.0	78	547.2500	14.5	-0.3	S	14.8

PEAK TO VALLEY: 6

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

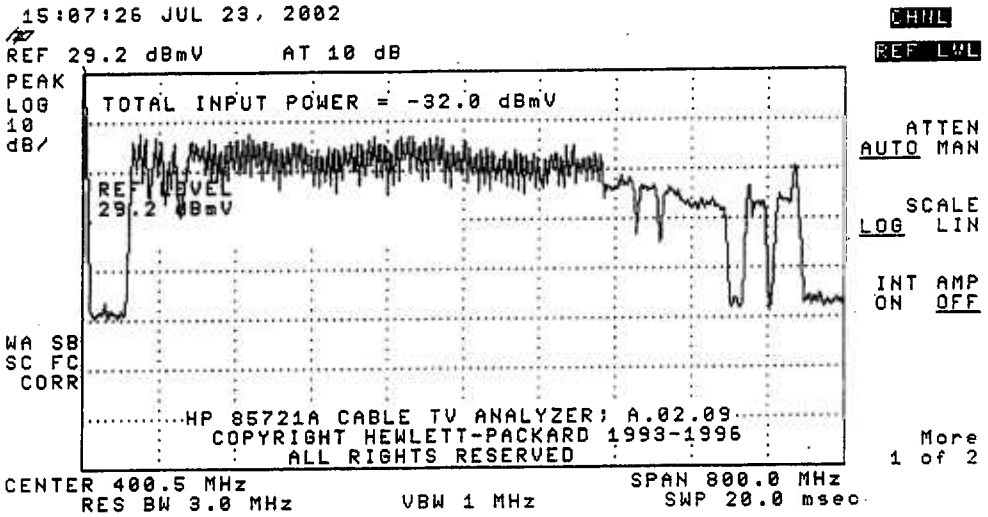
System Name: TIME WARNER ROME/ONEIDA **Date:** JULY 23,2002

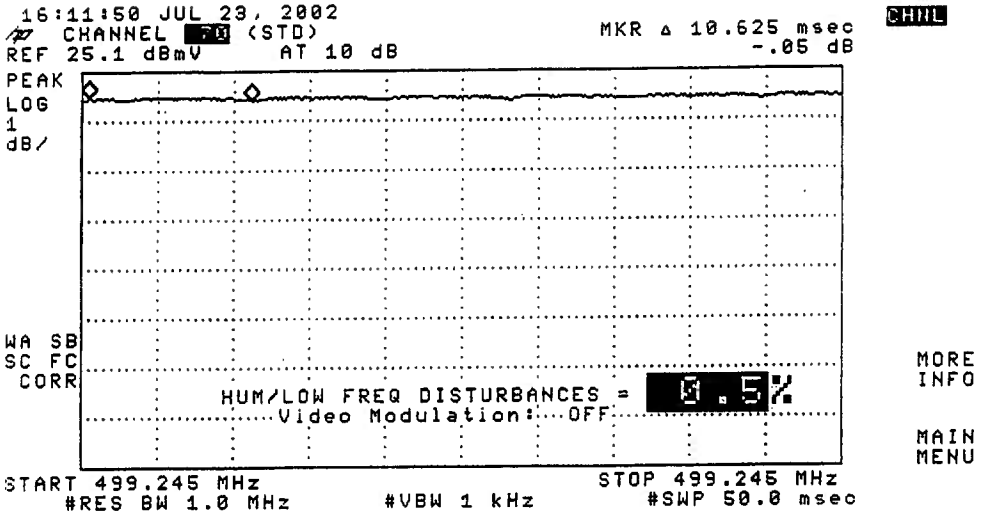
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: LAKEVIEW DR. ROME

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (+/- dB)	Carrier To Noise Ratio (dB)	Distortions (-dBc)			Hum (%)
				CSO	XMOD	
3	0.30	47.8	69.0	73.3		
19	0.50	47.3	68.9	71.8		
7	0.20	48.6	65.9	69.4		
31	0.30	47.2	67.6	74.1		
36	0.20	46.4	67.0	72.9		
43	0.20	47.3	69.2	71.8		
47	0.20	47.0	68.9	69.8		
55	0.50	48.0	67.3	73.0		
70	0.60	47.0	68.5	72.3		0.5


15:07:26 JUL 23, 2002
CHNL
REF 29.2 dBmV
AT 10 dB
REF LVL
PEAK
LOG
10
dB/
TOTAL INPUT POWER = -32.0 dBmV
REF LEVEL
29.2 dBmV
ATTEN
AUTO MAN
SCALE
LOG LIN
INT AMP
ON OFF
WA SB
SC FC
CORR
HP 85721A CABLE TV ANALYZER; A.02.09
COPYRIGHT HEWLETT-PACKARD 1993-1996
ALL RIGHTS RESERVED
More
1 of 2
CENTER 400.5 MHz
SPAN 800.0 MHz
RES BW 3.0 MHz
VBW 1 MHz
SWP 20.0 msec


16:11:50 JUL 23, 2002
CHANNEL 70 (STD)
REF 25.1 dBmV
AT 10 dB
MKR Δ 10.625 msec
-.05 dB
CHNL
PEAK
LOG
1
dB/
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.5%
Video Modulation: OFF
MORE
INFO
MAIN
MENU
START 499.245 MHz
#RES BW 1.0 MHz
#VBW 1 kHz
STOP 499.245 MHz
#SWP 50.0 msec

Time Warner Cable
Syracuse Division

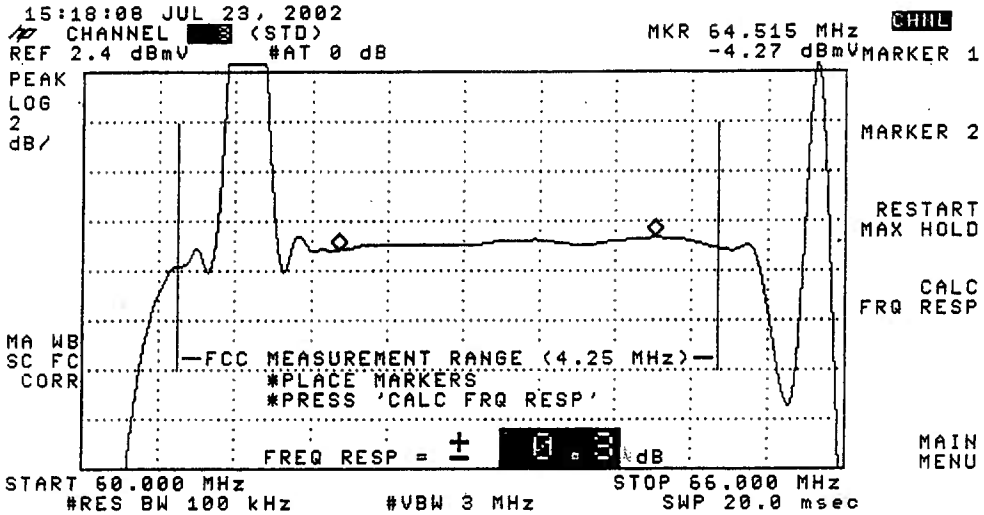
IN - CHANNEL FREQUENCY RESPONSE TEST

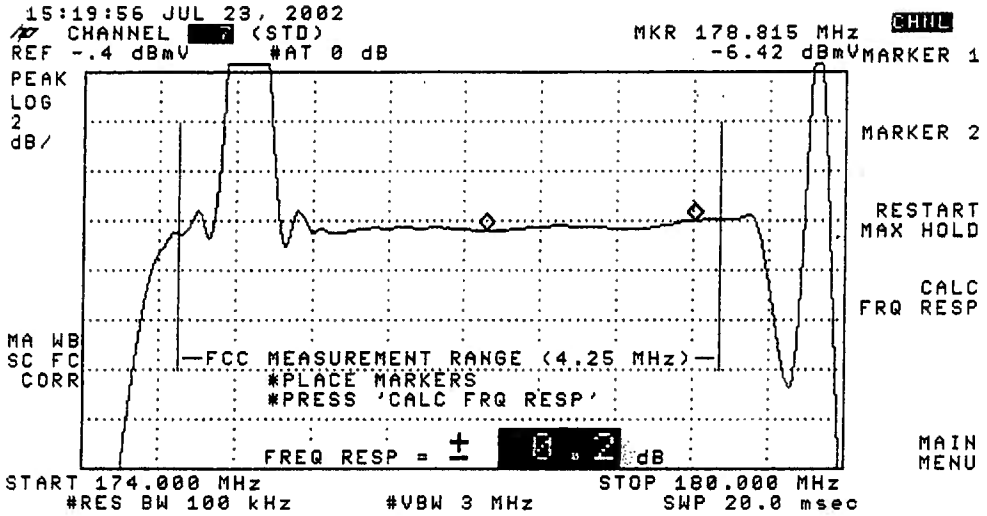
(76.605 (a) 6)

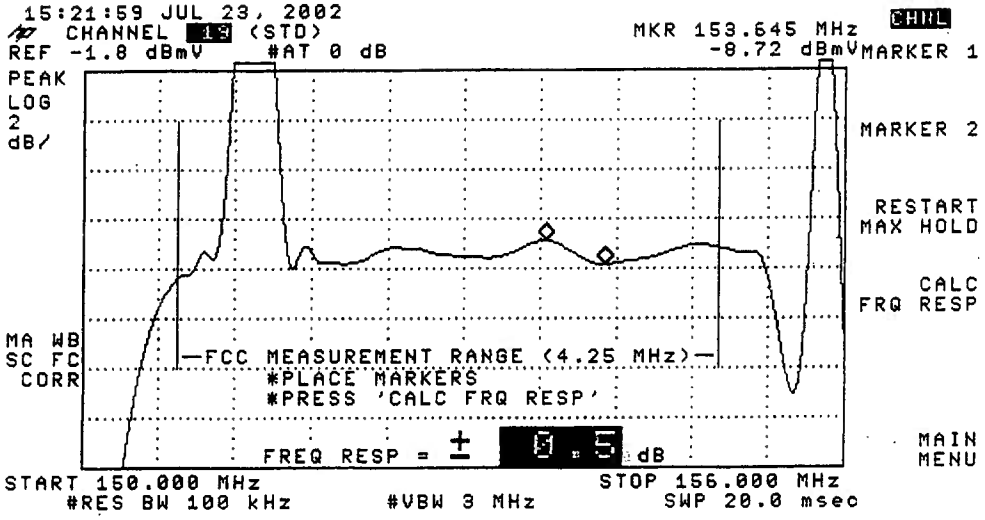
System Name: ROME/ONEIDA Date: AUGUST 22,2002

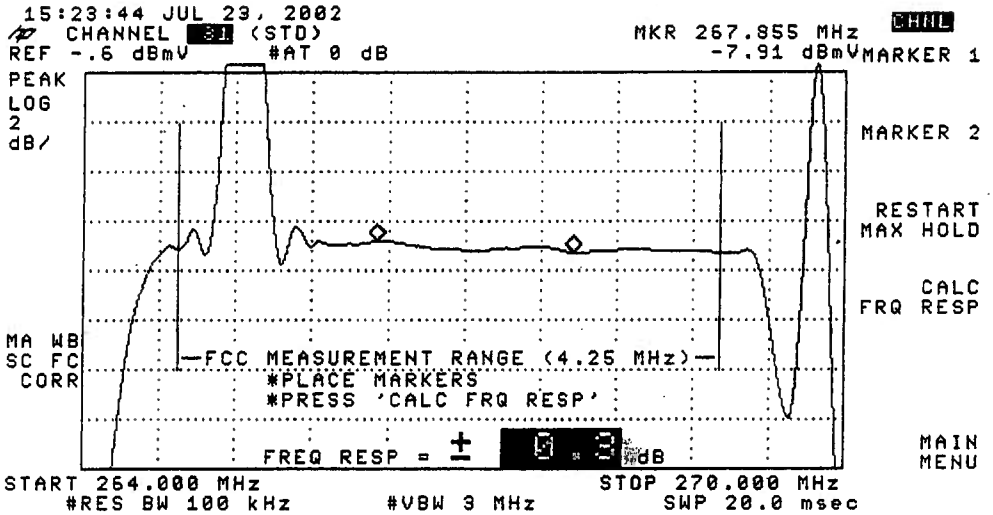
Test Performed By: MARK D'AOUST/JOEL MARMON Location: LAKEVIEW DR.

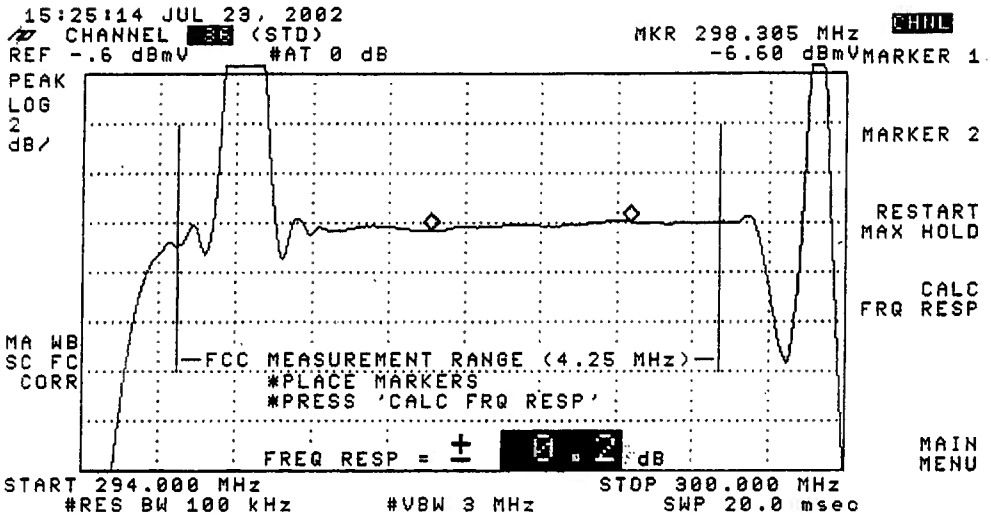
(SEE THE ATTATCHED SWEEP TRACES)

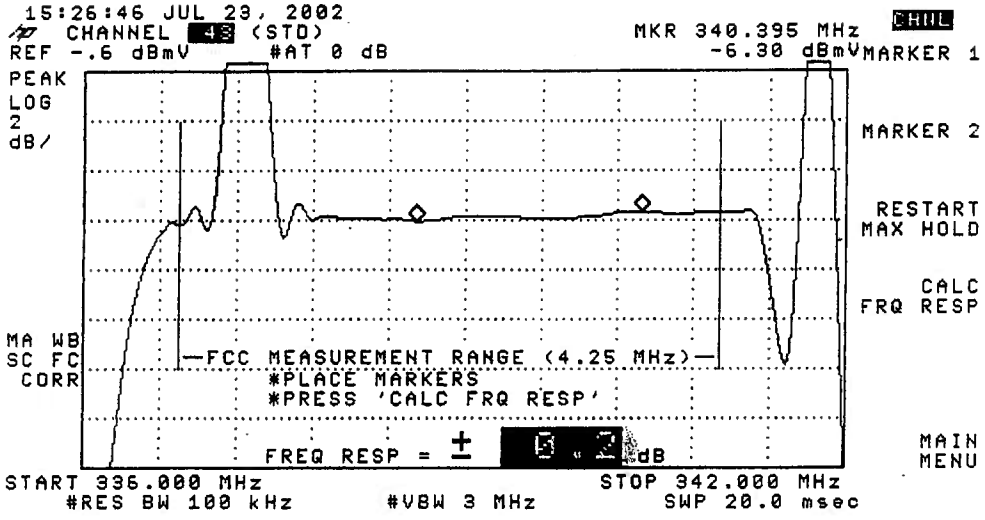

15:18:08 JUL 23, 2002
CHANNEL 3 (STD)
REF 2.4 dBmV
#AT 0 dB
MKR 64.515 MHz
-4.27 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

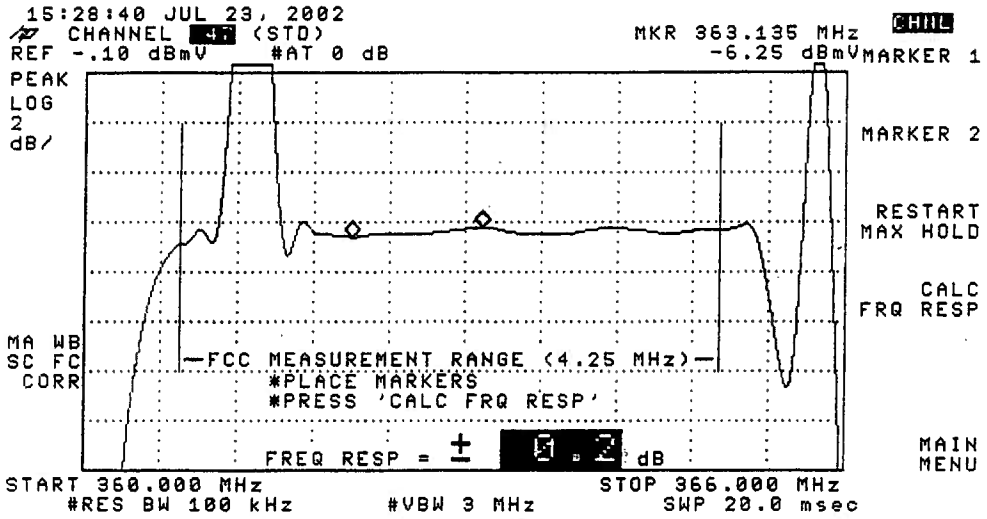

15:19:56 JUL 23, 2002
CHANNEL 7 (STD)
REF -.4 dBmV
#AT 0 dB
MKR 178.815 MHz
-6.42 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 8.2 dB
MAIN
MENU
START 174.000 MHz
STOP 180.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec

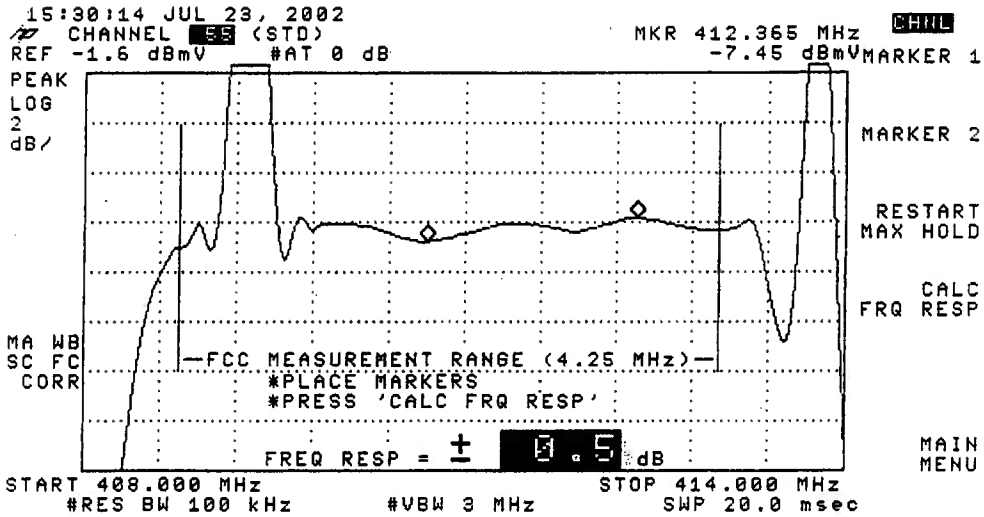

15:21:59 JUL 23, 2002
CHANNEL 13 (STD)
REF -1.8 dBmV
#AT 0 dB
MKR 153.645 MHz
-8.72 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.5 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 156.000 MHz
SWP 20.0 msec

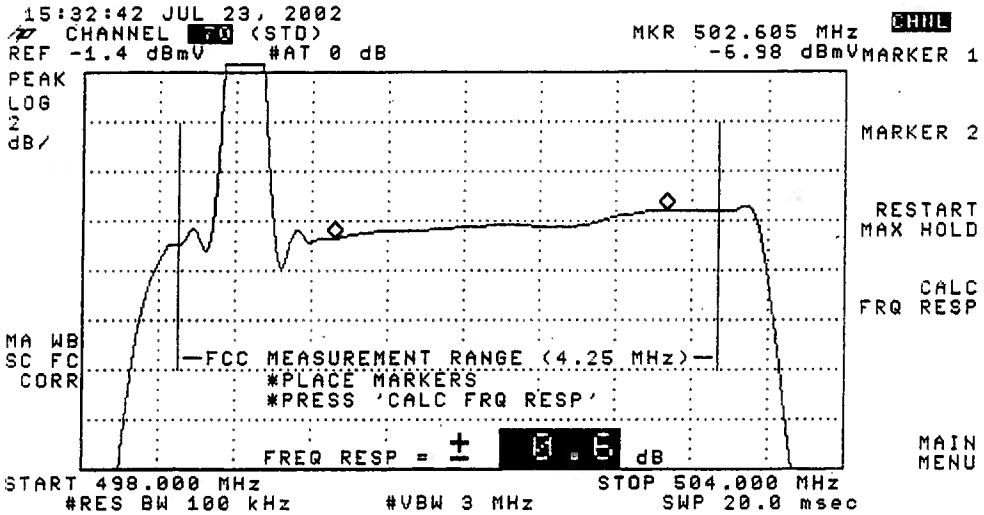

15:23:44 JUL 23, 2002
CHANNEL 31 (STD)
REF -.6 dBmV
#AT 0 dB
MKR 267.855 MHz
-7.91 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 9.3 dB
MAIN
MENU
START 264.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 270.000 MHz
SWP 20.0 msec

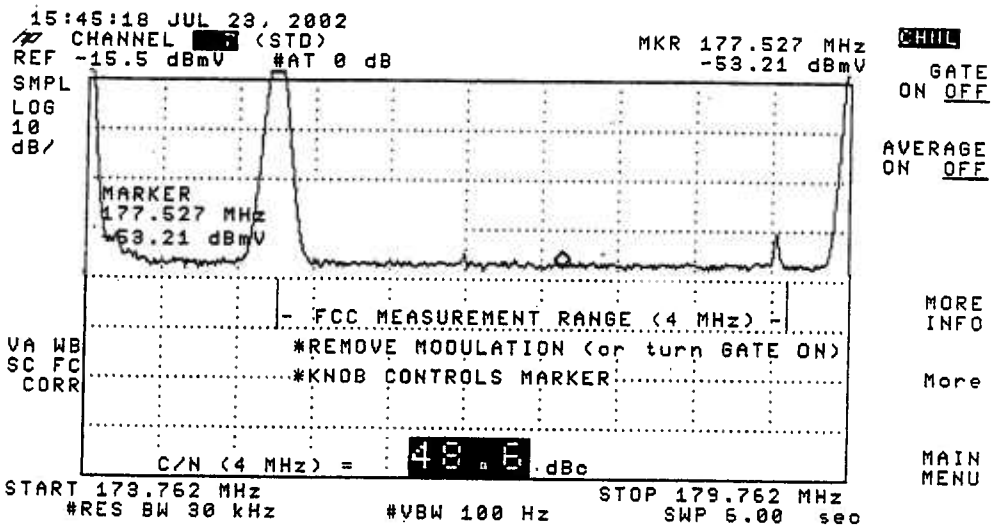

15:25:14 JUL 23, 2002
CHANNEL 38 (STD)
REF -.6 dBmV
#AT 0 dB
MKR 298.305 MHz
-6.60 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 5.2 dB
MAIN
MENU
START 294.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 300.000 MHz
SWP 20.0 msec

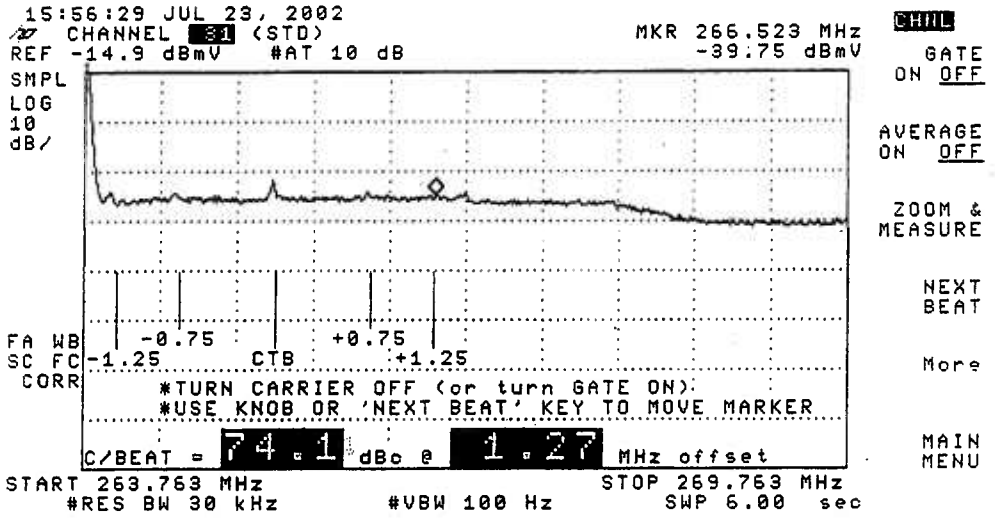

15:26:46 JUL 23, 2002
CHANNEL 48 (STD)
REF -.6 dBmV
#AT 0 dB
MKR 340.395 MHz
-6.30 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ±
5.2
dB
MAIN
MENU
START 336.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 342.000 MHz
SWP 20.0 msec

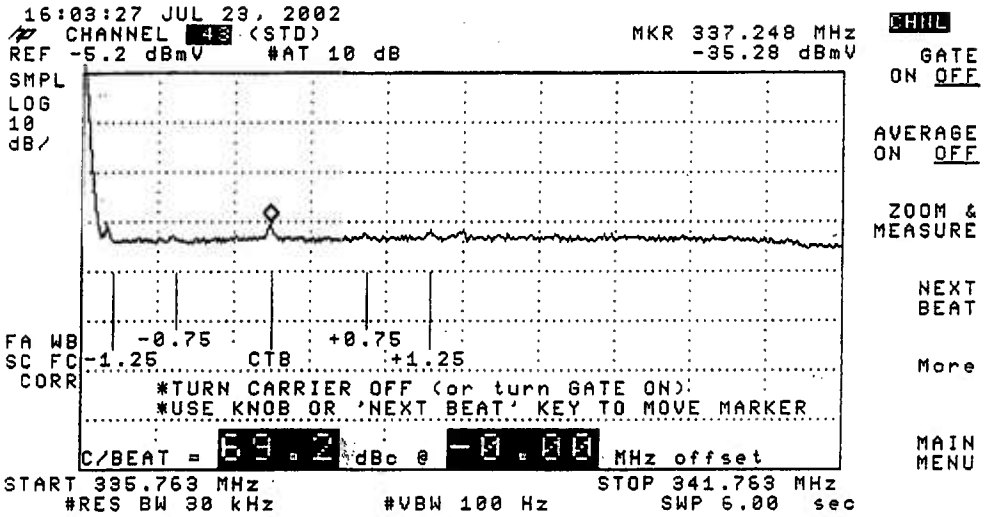

15:28:40 JUL 23, 2002
CHANNEL 47 (STD)
REF -.10 dBmV
#AT 0 dB
MKR 363.135 MHz
-6.25 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 6.2 dB
MAIN
MENU
START 360.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 366.000 MHz
SWP 20.0 msec


15:30:14 JUL 23, 2002
CHANNEL 55 (STD)
REF -1.6 dBmV
#AT 0 dB
MKR 412.365 MHz
-7.45 dBmV
CHRL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.5 dB
MAIN
MENU
START 408.000 MHz
STOP 414.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec


15:32:42 JUL 23, 2002
CHANNEL 70 (STD)
REF -1.4 dBmV
#AT 0 dB
MKR 502.605 MHz
-6.98 dBmV
CHUL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.6 dB
MAIN
MENU
START 498.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 504.000 MHz
SWP 20.0 msec


15:45:18 JUL 23, 2002
CHANNEL [redacted] (STD)
REF -15.5 dBmV
#AT 0 dB
MKR 177.527 MHz
-53.21 dBmV
CHIL
GATE
ON OFF
AVERAGE
ON OFF
SMPL
LOG
10
dB/
MARKER
177.527 MHz
-53.21 dBmV
- FCC MEASUREMENT RANGE (4 MHz) -
*REMOVE MODULATION (or turn GATE ON)
*KNOB CONTROLS MARKER
VA WB
SC FC
CORR
MORE
INFO
More
C/N (4 MHz) = 48.6 dBc
MAIN
MENU
START 173.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 5.00 sec


15:56:29 JUL 23, 2002
CHANNEL 31 (STD)
REF -14.9 dBmV
#AT 10 dB
MKR 266.523 MHz
-39.75 dBmV
CHNL
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-1.25
-0.75
CTB
+0.75
+1.25
*TURN CARRIER OFF (or turn GATE ON):
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 74.1 dBc @ 1.27 MHz offset
START 263.763 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 269.763 MHz
SWP 6.00 sec


16:03:27 JUL 23, 2002
CHANNEL 43 (STD)
REF -5.2 dBmV
#AT 10 dB
MKR 337.248 MHz
-35.28 dBmV
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 69.2 dBc @ -0.00 MHz offset
START 335.763 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 341.763 MHz
SWP 5.00 sec
CHNL
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location LAKEVIEW DR.

Date: AUG. 2, 2002 Performed by MARK D'AOUST

Meter Serial Number: CALAN 3010#US37241488

Chan	Freq (MHz)	Temp °F 72	83	82	70	Max Variation
		Time 07:15	13:15	19:15	01:15	
		Visual Level (dbmV)				
2	55.2500	17.2	15.9	16.6	17.3	1.4
3	61.2500	18.1	17.0	17.3	18.3	1.3
4	67.2500	18.2	17.0	17.2	18.1	1.2
5	77.2500	17.1	15.9	16.5	17.2	1.3
6	83.2500	16.2	15.2	15.9	16.4	1.2
A-5	91.2500	16.3	15.2	15.7	16.7	1.5
A-4	97.2500	16.9	15.9	16.5	16.9	1.0
A-3	103.2500					
A-2	109.2750					
A-1	115.2750	16.6	14.8	15.8	16.5	1.8
A	121.2625	15.9	15.0	15.5	16.1	1.1
B	127.2625	16.2	15.0	15.5	16.2	1.2
C	133.2625	16.5	15.2	15.7	16.5	1.3
D	139.2500	15.9	14.4	14.9	16.0	1.6
E	145.2500	15.5	13.9	14.7	15.6	1.7
F	151.2500	15.3	14.2	14.8	15.5	1.3
G	157.2500	17.1	15.7	16.1	17.0	1.4
H	163.2500	16.9	15.7	16.3	17.1	1.4
I	169.2500	17.0	15.6	16.3	17.2	1.6
7	175.2500	17.4	16.3	16.6	17.7	1.4
8	181.2500	17.5	16.3	16.6	17.6	1.3
9	187.2500	16.5	14.7	15.3	16.4	1.8
10	193.2500	16.3	15.3	15.6	16.5	1.2
11	199.2500	16.5	15.6	15.9	16.7	1.1
12	205.2500	15.1	14.0	13.6	15.2	1.6
13	211.2500	15.5	14.6	14.7	15.8	1.2
J	217.2500	15.7	14.7	15.0	15.9	1.2
K	223.2500	15.7	14.3	14.7	15.7	1.4
L	229.2625	15.5	14.3	14.7	15.7	1.4
M	235.2625	15.4	14.4	14.6	15.6	1.2
N	241.2625	14.8	13.8	14.2	15.1	1.3
O	247.2625	14.6	13.6	13.8	14.7	1.1
P	253.2625	14.6	13.6	13.8	15.0	1.4
Q	259.2625	15.4	14.3	14.4	15.6	1.3
R	265.2625	15.6	14.5	14.9	15.7	1.2
S	271.2625	15.5	14.4	14.7	15.9	1.5
T	277.2625	15.7	14.8	15.1	16.0	1.2
U	283.2625	15.6	14.7	15.0	15.9	1.2
V	289.2625	15.8	14.5	15.0	15.8	1.3
W	295.2625	16.2	15.3	15.6	16.4	1.1
AA	301.2625	16.5	15.6	16.1	16.9	1.3
BB	307.2625	17.0	16.0	16.3	17.1	1.1
CC	313.2625	17.2	16.4	16.5	17.5	1.1
DD	319.2625	16.9	16.1	16.3	17.1	1.0
EE	325.2625	17.2	15.0	15.8	16.9	2.2
FF	331.2750	17.2	16.4	16.7	17.6	1.2
GG	337.2625	17.2	16.2	16.5	17.3	1.1
HH	343.2625	17.1	16.4	16.8	17.5	1.1
II	349.2625	16.8	15.9	16.4	17.2	1.3
JJ	355.2625	16.8	16.0	16.2	17.2	1.2
KK	361.2625	16.9	15.8	16.2	17.2	1.4
LL	367.2625	16.8	15.8	16.1	17.2	1.4
MM	373.2625	16.8	16.0	16.4	17.1	1.1
NN	379.2625	16.5	16.0	15.9	17.1	1.2
OO	385.2625	15.7	15.0	15.2	16.2	1.2
PP	391.2625	15.5	14.5	14.7	15.8	1.3
QQ	397.2625	14.8	13.8	14.0	15.0	1.2
RR	403.2500	14.8	13.6	14.0	15.0	1.4
SS	409.2500	14.9	13.7	14.1	15.3	1.6
TT	415.2500	14.6	13.6	13.9	14.9	1.3
UU	421.2500	14.8	13.7	13.9	15.0	1.3
VV	427.2500	14.3	13.2	13.5	14.7	1.5
WW	433.2500	13.5	12.4	12.9	13.9	1.5
XX	439.2500	12.2	11.3	11.5	12.6	1.3
YY	445.2500	12.4	11.7	11.8	12.8	1.1
ZZ	451.2500	12.7	12.0	12.0	13.2	1.2
63	457.2500	13.8	12.9	13.0	14.3	1.4
64	463.2500	14.3	13.5	13.5	14.8	1.3
65	469.2500	14.0	13.6	13.3	14.6	1.3
66	475.2500	13.6	13.0	12.9	14.0	1.1
67	481.2500	12.9	12.7	12.3	13.3	1.0
68	487.2500	12.5	11.6	11.6	13.0	1.4
69	493.2500	13.2	12.0	12.3	13.6	1.6
70	499.2500	13.3	11.9	12.5	13.8	1.9
71	505.2500	14.4	12.5	13.8	14.9	2.4
72	511.2500	14.5	13.1	14.0	15.0	1.9
73	517.2500	14.5	13.0	14.0	15.0	2.0
74	523.2500	13.6	12.1	13.1	14.2	2.1
75	529.2500	14.1	12.8	13.7	14.8	2.0
76	535.2500	15.3	13.9	14.6	15.5	1.6
77	541.2500	14.3	13.2	13.7	14.9	1.7
78	547.2500	14.5	13.7	14.0	15.0	1.3

Max NonAdjacent Channel Level Diff.	6
Max Adjacent Channel Level Diff.	2.3

Max Variance from last proof-of-performance test	6.5
Date of last proof-of-performance test	FEB.9,2002

Note: Make measurements through a 100 ft. test drop cable without a converter.

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

System Test Point # 8

Location: RT 69

Community: CAMDEN

Pole Number: NM/75

D.T. Value: 26/4

Map Number: 449-5736

OR Number: 867

Trunk Cascade: 4 LE Cascade: 3

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **RT 69**

Date: 08-Aug-02

Time: 09:50 AM

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Scra S	Diff (Dbmv)
2	55.2500	8.2	-3.5		11.7	AA	301.2625	8.5	-5.8		14.3
3	61.2500	10.4	-2.6		13.0	BB	307.2625	8.2	-6.3		14.5
4	67.2500	11.4	-2.1		13.5	CC	313.2625	8.2	-5.9		14.1
5	77.2500	11.2	-2.2		13.4	DD	319.2625	8.0	-5.9		13.9
6	83.2500	10.4	-2.8		13.2	EE	325.2625	7.1	-5.4		12.5
						FF	331.2750	8.7	-4.8		13.5
						GG	337.2625	8.4	-6.0	S	14.4
A-5	91.2500	11.1	-3.4	S	14.5	HH	343.2625	8.6	-5.3		13.9
A-4	97.2500	11.4	-2.8		14.2	II	349.2625	8.3	-4.8		13.1
A-3	103.2500					JJ	355.2625	8.5	-5.3		13.8
A-2	109.2750					KK	361.2625	8.5	-4.8		13.3
A-1	115.2750	10.3	-4.2	S	14.5	LL	367.2625	9.4	-4.7		14.1
A	121.2625	9.7	-3.1		12.8	MM	373.2625	8.7	-5.8		14.5
B	127.2625	10.0	-3.1		13.1	NN	379.2625	8.7	-4.8		13.5
C	133.2625	9.5	-3.2		12.7	OO	385.2625	8.6	-6.5	S	15.1
D	139.2500	9.8	-5.5	S	15.3	PP	391.2625	8.3	-7.8	S	16.1
E	145.2500	9.3	-3.7		13.0	QQ	397.2625	7.6	-4.8	S	12.4
F	151.2500	9.6	-4.5		14.1	RR	403.2500	7.7	-7.1	S	14.8
G	157.2500	10.5	-4.0		14.5	SS	409.2500	7.2	-7.4	S	14.6
H	163.2500	12.6	-1.7		14.3	TT	415.2500	7.1	-6.1		13.2
I	169.2500	10.3	-3.5		13.8	UU	421.2500	7.1	-3.8	S	10.9
7	175.2500	10.7	-3.1		13.8	VV	427.2500	7.1	-7.0		14.1
8	181.2500	10.6	-3.6		14.2	WW	433.2500	7.3	-7.2	S	14.5
9	187.2500	9.4	-4.0		13.4	XX	439.2500	7.3	-8.1	S	15.4
10	193.2500	11.4	-4.5		15.9	YY	445.2500	8.2	-6.1		14.3
11	199.2500	10.6	-1.1		11.7	ZZ	451.2500	7.6	-7.4	S	15.0
12	205.2500	8.0	-8.0		16.0	63	457.2500	8.1	-6.2	S	14.3
13	211.2500	8.6	-4.8		13.4	64	463.2500	8.0	-6.7	S	14.7
J	217.2500	8.2	-4.6		12.8	65	469.2500	8.1	-6.5	S	14.6
K	223.2500	8.2	-5.6		13.8	66	475.2500	8.2	-5.7	S	13.9
L	229.2625	8.2	-7.5	S	15.7	67	481.2500	8.3	-6.6	S	14.9
M	235.2625	9.8	-3.7		13.5	68	487.2500	8.2	-5.4	S	13.6
N	241.2625	10.0	-2.9		12.9	69	493.2500	8.3	-5.9	S	14.2
O	247.2625	10.2	-4.0		14.2	70	499.2500	8.4	-6.5	S	14.9
P	253.2625	8.8	-5.0		13.8	71	505.2500	8.6	-5.3	S	13.9
Q	259.2625	10.2	-4.3		14.5	72	511.2500	9.1	-5.3	S	14.4
R	265.2625	9.1	-5.3		14.4	73	517.2500	8.7	-5.5	S	14.2
S	271.2625	9.7	-3.2		12.9	74	523.2500	8.7	-5.2	S	13.9
T	277.2625	10.0	-3.9		13.9	75	529.2500	9.5	-5.0	S	14.5
U	283.2625	9.2	-4.6		13.8	76	535.2500	9.9	-2.4	S	12.3
V	289.2625	9.4	-4.4		13.8	77	541.2500	9.3	-4.4	S	13.7
W	295.2625	8.6	-4.3		12.9	78	547.2500	9.6	-4.7	S	14.3

PEAK TO VALLEY: 5.5

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

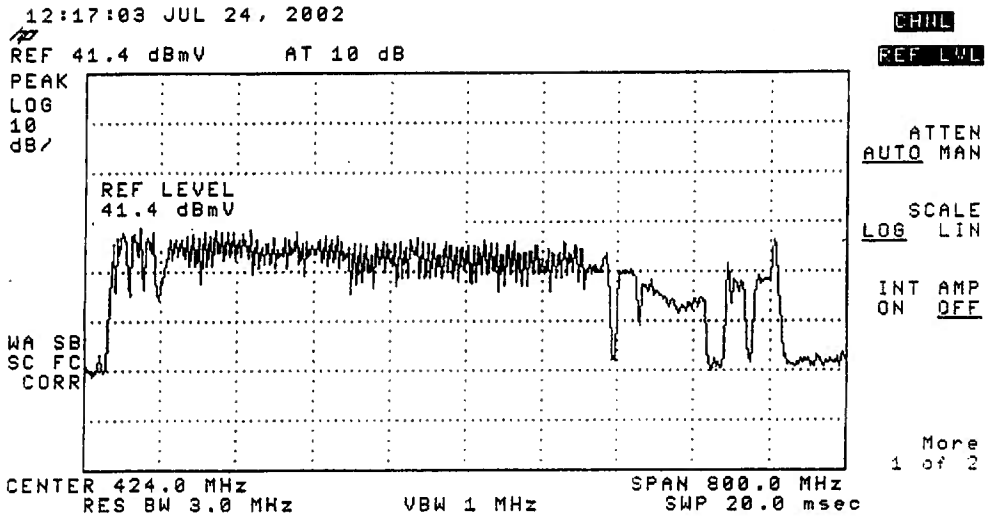
System Name: TIME WARNER ROME/ONEIDA **Date:** JULY 24,2002

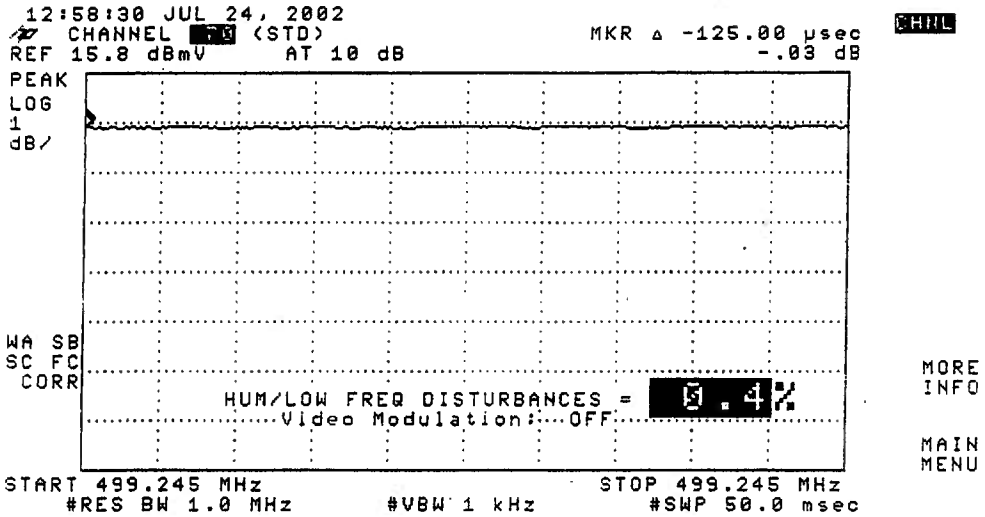
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: RT. 69 CAMDEN

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (+/- dB)	Carrier To Noise Ratio (dB)	Distortions (-dBc) CTB	CSO	X-Mod	Hum (%)
3	0.20	46.1	66.7	70.1		
19	0.20	46.0	66.8	73.5		
7	0.30	46.4	67.9	74.0		
31	0.30	46.7	65.0	67.6		
36	0.10	46.2	63.7	66.3		
43	0.10	45.9	62.8	63.4		
47	0.20	46.1	63.7	63.9		
55	0.20	46.3	62.1	66.1		
70	0.20	46.5	62.9	66.2		0.4


12:17:03 JUL 24, 2002
CHNL
REF 41.4 dBmV
AT 10 dB
REF LVL
PEAK
LOG
10
dB/
REF LEVEL
41.4 dBmV
ATTEN
AUTO MAN
SCALE
LOG LIN
INT AMP
ON OFF
WA SB
SC FC
CORR
More
1 of 2
CENTER 424.0 MHz
SPAN 800.0 MHz
RES BW 3.0 MHz
VBW 1 MHz
SWP 20.0 msec


12:58:30 JUL 24, 2002
CHANNEL 78 (STD)
REF 15.8 dBmV
AT 10 dB
MKR Δ -125.00 µsec
-.03 dB
CHIL
PEAK
LOG
1
dB/
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.4%
Video Modulation: OFF
MORE
INFO
MAIN
MENU
START 499.245 MHz
#RES BW 1.0 MHz
#VBW 1 kHz
STOP 499.245 MHz
#SWP 50.0 msec

Time Warner Cable
Syracuse Division

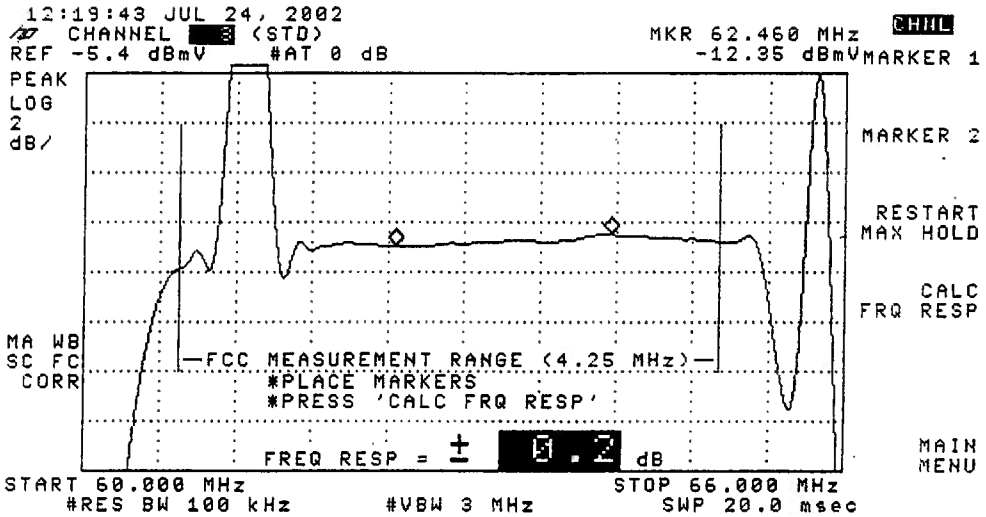
IN - CHANNEL FREQUENCY RESPONSE TEST

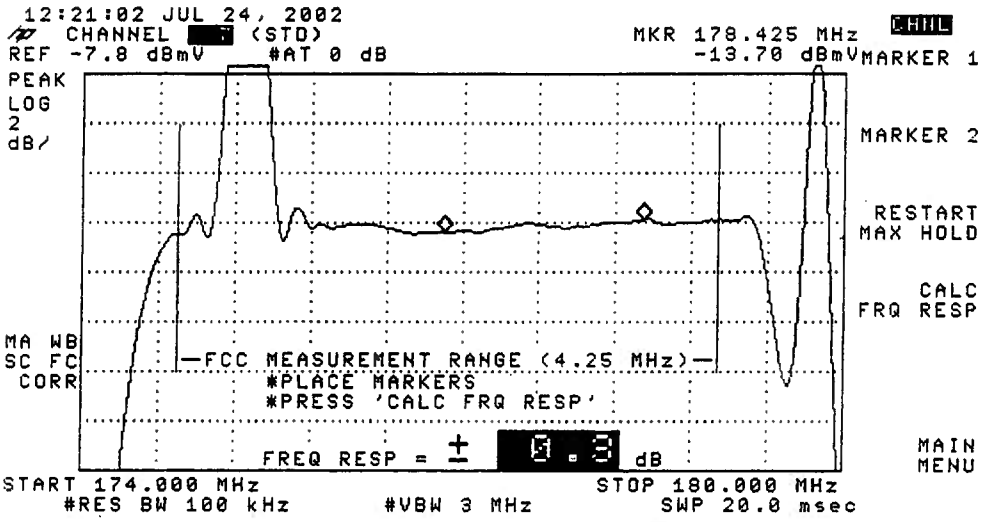
(76.605 (a) 6)

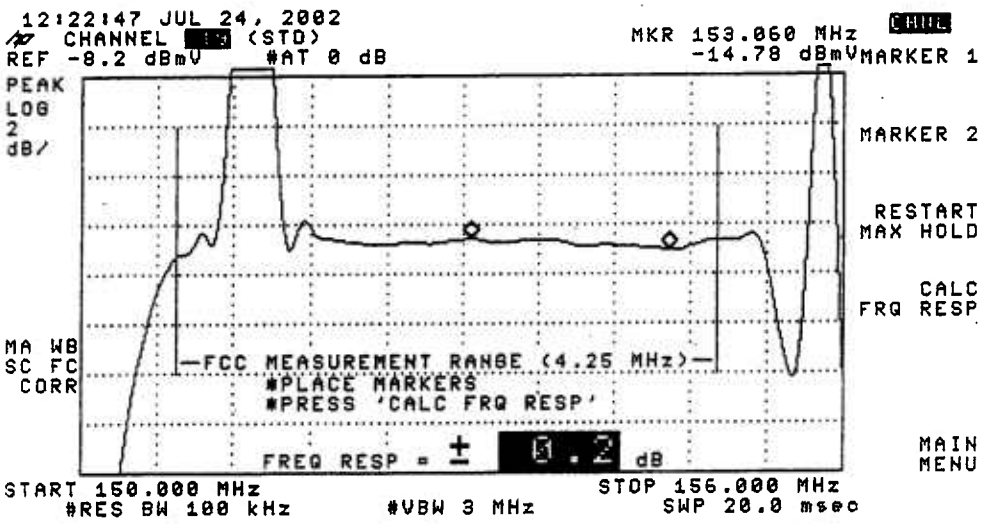
System Name: ROME/ONEIDA Date: AUGUST 22,2002

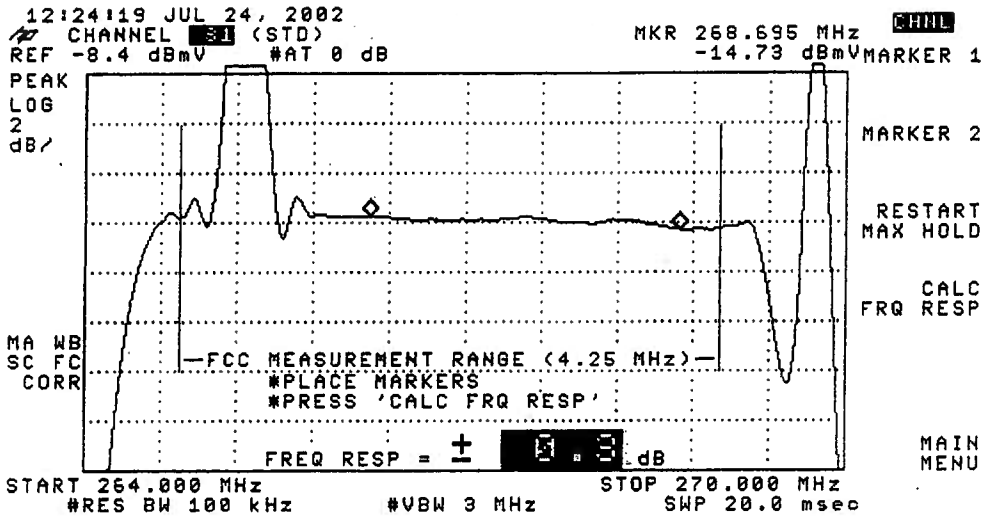
Test Performed By: MARK D'AOUST/JOEL MARMON Location: RT 69, CAMDEN

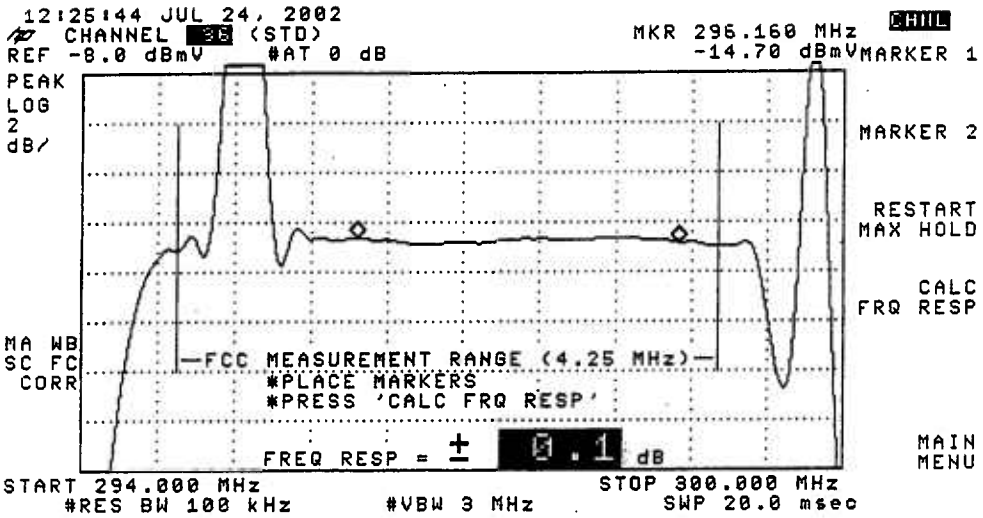
(SEE THE ATTATCHED SWEEP TRACES)

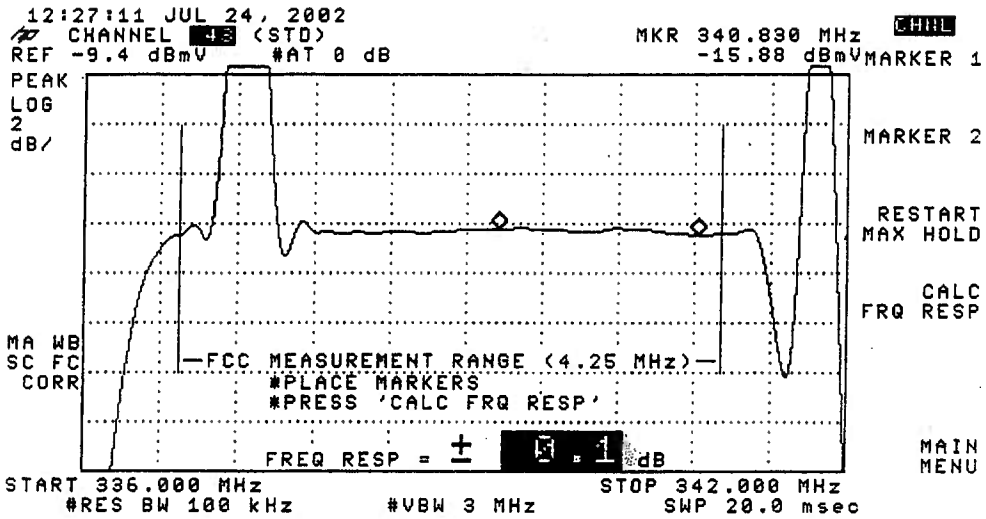

12:19:43 JUL 24, 2002
CHANNEL 3 (STD)
REF -5.4 dBmV
#AT 0 dB
MKR 62.460 MHz
-12.35 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

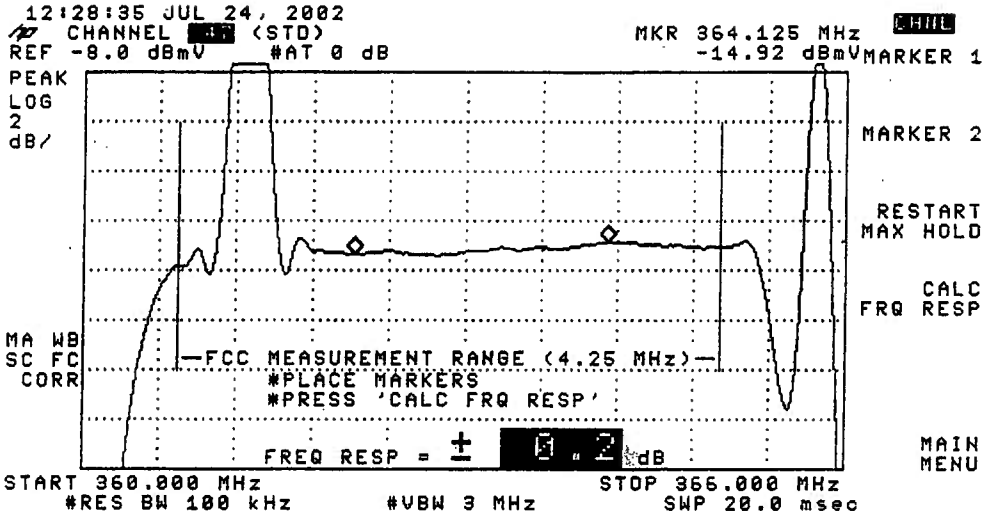

12:21:02 JUL 24, 2002
CHANNEL [redacted] (STD)
REF -7.8 dBmV
#AT 0 dB
MKR 178.425 MHz
-13.70 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 174.000 MHz
STOP 180.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec

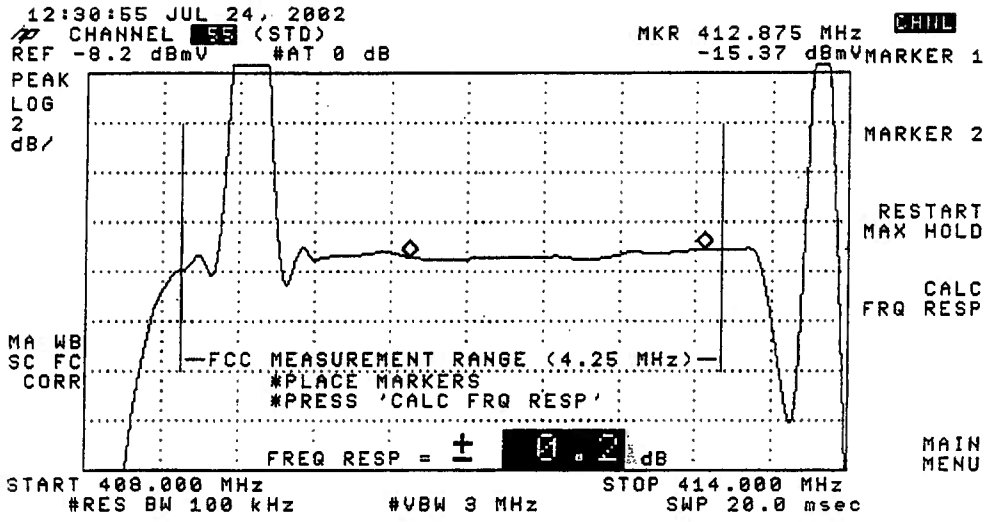

12:22:47 JUL 24, 2002
CHANNEL [redacted] (STD)
REF -8.2 dBmV
#AT 0 dB
MKR 153.060 MHz
-14.78 dBmV
CHTL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 156.000 MHz
SWP 20.0 msec

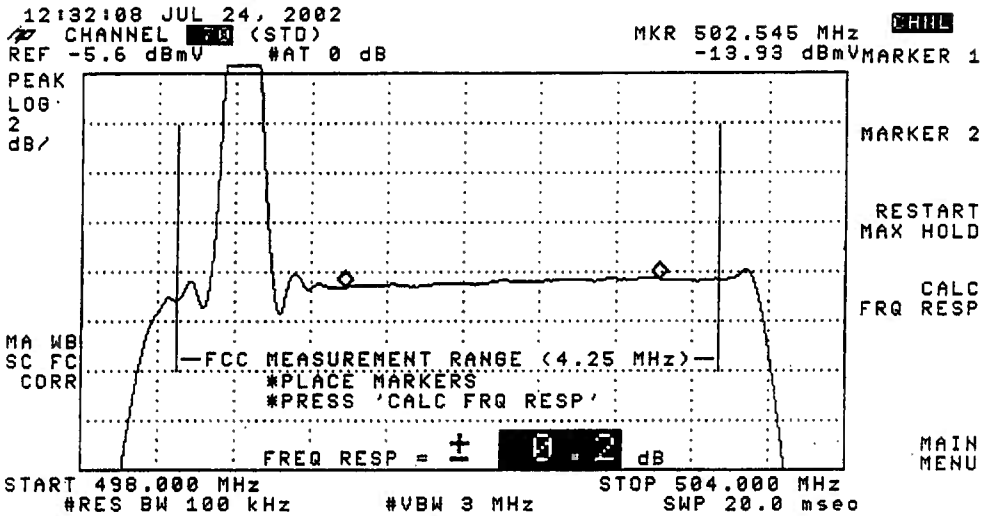

12:24:19 JUL 24, 2002
CHANNEL 31 (STD)
REF -8.4 dBmV
#AT 0 dB
MKR 268.695 MHz
-14.73 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.3 dB
MAIN
MENU
START 264.000 MHz
STOP 270.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec

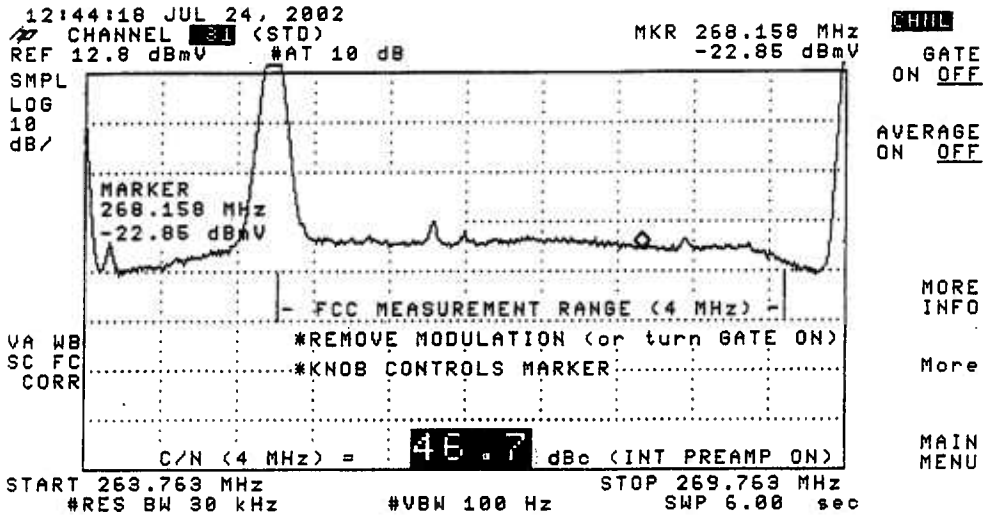

12:25:44 JUL 24, 2002
CHANNEL 36 (STD)
REF -8.0 dBmV
#AT 0 dB
MKR 296.160 MHz
-14.70 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 294.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 300.000 MHz
SWP 20.0 msec

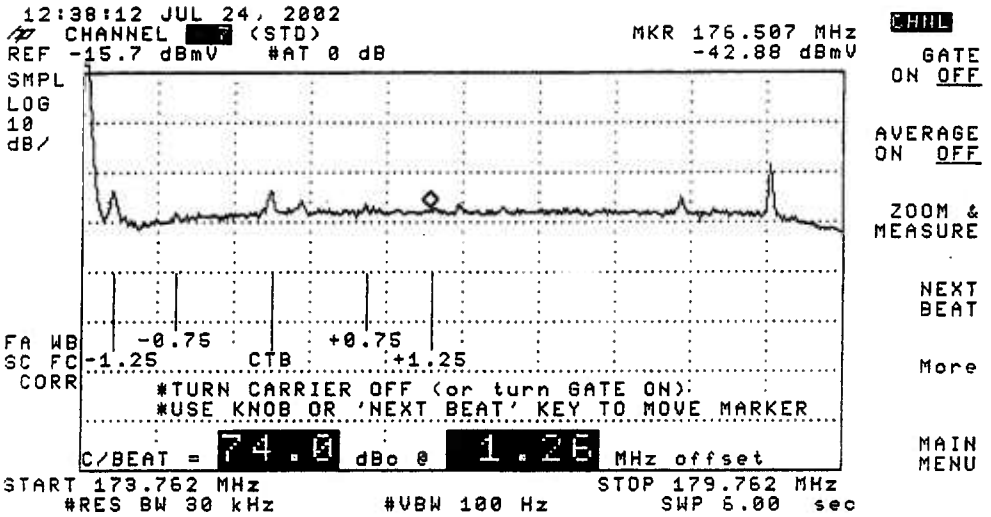

12:27:11 JUL 24, 2002
CHANNEL 43 (STD)
REF -9.4 dBmV
#AT 0 dB
MKR 340.830 MHz
-15.88 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 336.000 MHz
STOP 342.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
SWP 20.0 msec

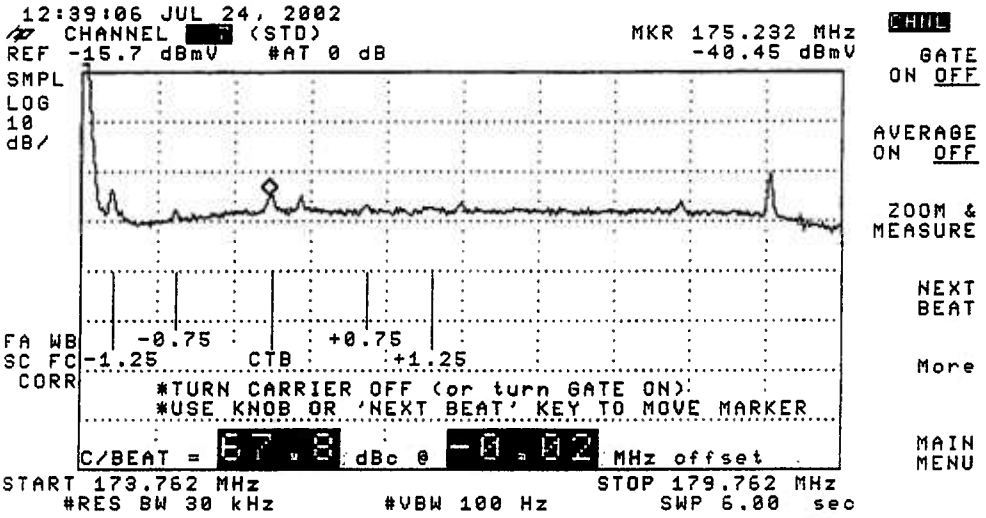

12:28:35 JUL 24, 2002
CHANNEL 41 (STD)
REF -8.0 dBmV
#AT 0 dB
MKR 364.125 MHz
-14.92 dBmV
CHIL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 360.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 366.000 MHz
SWP 20.0 msec


12:30:55 JUL 24, 2002
CHANNEL 55 (STD)
REF -8.2 dBmV
#AT 0 dB
MKR 412.875 MHz
-15.37 dBmV
CHTL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 408.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 414.000 MHz
SWP 20.0 msec


12:32:08 JUL 24, 2002
CHANNEL 10 (STD)
REF -5.6 dBmV
#AT 0 dB
MKR 502.545 MHz
-13.93 dBmV
CHNL
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
*PLACE MARKERS
*PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 498.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 504.000 MHz
SWP 20.0 mseo


12:44:18 JUL 24, 2002
CHANNEL 31 (STD)
REF 12.8 dBmV
#AT 10 dB
MKR 268.158 MHz
-22.85 dBmV
CHIL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
MARKER
268.158 MHz
-22.85 dBmV
MORE
INFO
- FCC MEASUREMENT RANGE (4 MHz) -
VA WB
SC FC
CORR
*REMOVE MODULATION (or turn GATE ON)
*KNOB CONTROLS MARKER
More
C/N (4 MHz) =
46.7
dBc (INT PREAMP ON)
MAIN
MENU
START 263.763 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 269.763 MHz
SWP 6.00 sec


12:38:12 JUL 24, 2002
CHANNEL 7 (STD)
REF -15.7 dBmV
#AT 0 dB
MKR 176.507 MHz
-42.88 dBmV
CHNL
GATE ON OFF
AVERAGE ON OFF
ZOOM & MEASURE
NEXT BEAT
More
MAIN MENU
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
#TURN CARRIER OFF (or turn GATE ON)
#USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 74.0 dBc @ 1.26 MHz offset
START 173.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 5.00 sec


12:39:06 JUL 24, 2002
CHANNEL [redacted] (STD)
REF -15.7 dBmV
#AT 0 dB
MKR 175.232 MHz
-40.45 dBmV
CHIL
GATE
ON OFF
SMPL
LOG
10
dB/
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
More
*TURN CARRIER OFF (or turn GATE ON)
*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 67.8 dBc @ -0.02 MHz offset
MAIN
MENU
START 173.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 6.00 sec

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location RT 69

Date: AUG. 8, 2002 Performed by MARK D'AOUST

Meter Serial Number: CALAN 3010#US37241488

Chan.	Freq. (MHz)	Temp °F 76	87	85	75	Max. Variation
		Time 09:50	15:50	21:50	03:50	
		Visual Level (dbmv)				
2	55.2500	8.2	8.5	8.9	9.5	1.3
3	61.2500	10.4	10.9	11.4	11.7	1.3
4	67.2500	11.4	11.6	12.2	12.6	1.2
5	77.2500	11.2	11.1	11.8	12.2	1.1
6	83.2500	10.4	10.8	11.4	12.0	1.6
A-5	91.2500	11.1	11.8	11.9	12.5	1.4
A-4	97.2500	11.4	11.7	12.1	12.5	1.1
A-3	103.2500					
A-2	109.2750					
A-1	115.2750	10.3	10.0	10.0	11.1	1.1
A	121.2625	9.7	10.0	10.5	10.9	1.2
B	127.2625	10.0	10.0	10.9	10.9	0.9
C	133.2625	9.5	9.5	10.0	10.3	0.8
D	139.2500	9.8	10.1	10.6	10.9	1.1
E	145.2500	9.3	9.6	10.5	10.8	1.5
F	151.2500	9.6	10.0	10.3	10.3	0.7
G	157.2500	10.5	11.0	11.7	11.7	1.2
H	163.2500	12.6	12.4	13.0	13.5	1.1
I	169.2500	10.3	10.5	10.7	11.5	1.2
7	175.2500	10.7	11.1	11.4	11.7	1.0
8	181.2500	10.6	11.1	11.2	11.5	0.9
9	187.2500	9.4	9.6	10.2	10.2	0.8
10	193.2500	11.4	11.9	12.1	12.5	1.1
11	199.2500	11.0	11.0	12.0	12.0	1.0
12	205.2500	9.0	10.0	10.0	10.0	1.0
13	211.2500	8.6	8.6	9.0	9.3	0.7
J	217.2500	8.2	8.3	8.7	8.9	0.7
K	223.2500	8.2	9.3	9.6	9.5	1.4
L	229.2625	8.2	8.3	8.8	8.9	0.7
M	235.2625	9.8	9.9	10.1	10.5	0.7
N	241.2625	10.0	10.1	10.4	10.7	0.7
O	247.2625	10.2	10.2	10.8	10.9	0.7
P	253.2625	8.8	9.0	9.6	9.5	0.8
Q	259.2625	10.2	10.5	10.6	11.1	0.9
R	265.2625	9.1	9.3	9.6	10.1	1.0
S	271.2625	9.7	9.7	10.0	10.5	0.8
T	277.2625	10.0	10.1	10.4	10.7	0.7
U	283.2625	9.2	9.3	9.4	9.8	0.6
V	289.2625	9.4	9.6	10.1	10.2	0.8
W	295.2625	8.6	9.0	9.4	9.5	0.9

Chan.	Freq. (MHz)	Temp °F 76	87	85	75	Max. Variation
		Time 09:50	15:50	21:50	03:50	
		Visual Level (dbmv)				
AA	301.2625	8.5	8.5	9.1	9.4	0.9
BB	307.2625	8.2	8.3	8.6	9.0	0.8
CC	313.2625	8.2	8.2	8.6	8.6	0.4
DD	319.2625	8.0	8.1	8.6	8.9	0.9
EE	325.2625	7.1	7.4	8.6	7.9	1.5
FF	331.2750	8.7	8.7	9.2	9.5	0.8
GG	337.2625	8.4	8.5	9.0	9.3	0.9
HH	343.2625	8.6	8.7	9.1	9.3	0.7
II	349.2625	8.3	8.4	9.0	9.2	0.9
JJ	355.2625	8.5	8.5	9.1	9.0	0.6
KK	361.2625	8.5	8.7	8.9	9.4	0.9
LL	367.2625	9.4	9.4	10.0	10.3	0.9
MM	373.2625	8.7	8.8	9.2	9.5	0.8
NN	379.2625	8.7	8.8	9.3	9.6	0.9
OO	385.2625	8.6	8.8	9.5	9.4	0.9
PP	391.2625	8.3	8.1	8.6	9.3	1.2
QQ	397.2625	7.6	7.5	8.3	8.9	1.4
RR	403.2500	7.7	7.9	8.5	9.4	1.7
SS	409.2500	7.2	7.6	8.1	8.7	1.5
TT	415.2500	7.1	7.3	7.9	8.6	1.5
UU	421.2500	7.1	7.2	7.6	8.2	1.1
VV	427.2500	7.1	7.1	7.9	8.5	1.4
WW	433.2500	7.3	7.4	8.0	8.8	1.5
XX	439.2500	7.3	7.5	8.2	8.9	1.6
YY	445.2500	8.2	8.3	9.1	10.0	1.8
ZZ	451.2500	7.6	7.8	8.5	9.3	1.7
63	457.2500	8.1	8.3	9.1	9.8	1.7
64	463.2500	8.0	8.1	8.8	9.6	1.6
65	469.2500	8.1	8.2	9.4	10.0	1.9
66	475.2500	8.2	8.2	9.4	10.1	1.9
67	481.2500	8.3	8.6	9.5	10.3	2.0
68	487.2500	8.2	8.5	9.4	10.3	2.1
69	493.2500	8.3	8.8	9.5	10.5	2.2
70	499.2500	8.4	8.8	9.5	10.6	2.2
71	505.2500	8.6	9.0	9.8	11.1	2.5
72	511.2500	9.1	9.3	10.2	11.4	2.3
73	517.2500	8.7	9.1	10.0	11.2	2.5
74	523.2500	8.7	8.9	9.7	11.1	2.4
75	529.2500	9.5	9.8	11.0	12.1	2.6
76	535.2500	9.9	10.3	11.0	12.3	2.4
77	541.2500	9.3	10.2	10.7	11.9	2.6
78	547.2500	9.6	10.3	11.0	12.2	2.6

Max NonAdjacent Channel Level Diff.	5.6
Max Adjacent Channel Level Diff.	2.5

Max Variance from last proof-of-performance test	5.1
Date of last proof-of-performance test	FEB.12,2002

Note: Make measurements through a 100 ft. test drop cable without a converter.

TIME WARNER CABLE
SYRACUSE DIVISION

Proof-of-Performance Tests

System Name: TIME WARNER CABLE ROME/ONEIDA

System Test Point # 9

Location: W. MAIN ST.

Community: CONSTABLEVILLE

Pole Number: 18

D.T. Value: 23/4

Map Number: 524-5822

OR Number: 628

Trunk Cascade: 4 LE Cascade: 3

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: **ROME/ONEIDA**

Test Location: **WEST MAIN STREET**

Date: 01-Aug-02

Time: 12:45 PM

Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Sora S	Diff. (Dbmv)	Chan	Freq (MHz)	Visual Level (dbmv)	Aural Level (dbmv)	Sora S	Diff. (Dbmv)
2	55.2500	7.9	-4.1		12.0	AA	301.2625	9.9	-4.2		14.1
3	61.2500	10.6	-4.1		14.7	BB	307.2625	10.0	-4.8		14.8
4	67.2500	10.6	-3.8		14.4	CC	313.2625	10.1	-4.0		14.1
5	77.2500	9.8	-3.0		12.8	DD	319.2625	9.6	-4.3		13.9
6	83.2500	9.9	-3.6		13.5	EE	325.2625	9.0	-3.6		12.6
						FF	331.2750	9.6	-4.1		13.7
						GG	337.2625	9.5	-5.7	S	15.2
A-5	91.2500	10.0	-4.1	S	14.1	HH	343.2625	9.7	-4.3		14.0
A-4	97.2500	11.3	-3.2		14.5	II	349.2625	9.2	-4.5		13.7
A-3	103.2500					JJ	355.2625	8.8	-5.8		14.6
A-2	109.2750					KK	361.2625	8.5	-5.6		14.1
A-1	115.2750	7.9	-4.3	S	12.2	LL	367.2625	7.5	-6.7		14.2
A	121.2625	10.3	-2.3		12.6	MM	373.2625	7.5	-7.3		14.8
B	127.2625	9.9	-2.8		12.7	NN	379.2625	7.6	-6.2		13.8
C	133.2625	10.5	-2.4		12.9	OO	385.2625	7.2	-8.0	S	15.2
D	139.2500	11.3	-3.4	S	14.7	PP	391.2625	7.0	-8.8	S	15.8
E	145.2500	11.1	-3.0		14.1	QQ	397.2625	7.4	-6.0	S	13.4
F	151.2500	10.2	-4.0		14.2	RR	403.2500	7.5	-7.8	S	15.3
G	157.2500	11.4	-3.2		14.6	SS	409.2500	6.9	-8.4	S	15.3
H	163.2500	11.9	-2.2		14.1	TT	415.2500	6.2	-7.9		14.1
I	169.2500	11.5	-3.2		14.7	UU	421.2500	5.4	-5.5	S	10.9
7	175.2500	10.9	-3.6		14.5	VV	427.2500	5.4	-8.9		14.3
8	181.2500	10.7	-4.1		14.8	WW	433.2500	5.7	-8.8	S	14.5
9	187.2500	10.1	-3.2		13.3	XX	439.2500	6.1	-9.9	S	16.0
10	193.2500	11.2	-1.6		12.8	YY	445.2500	5.7	-8.2		13.9
11	199.2500	9.6	-4.7		14.3	ZZ	451.2500	6.1	-8.8	S	14.9
12	205.2500	7.6	-8.5		16.1	63	457.2500	6.6	-7.7	S	14.3
13	211.2500	8.4	-6.0		14.4	64	463.2500	6.9	-8.0	S	14.9
J	217.2500	7.6	-5.6		13.2	65	469.2500	7.2	-7.7	S	14.9
K	223.2500	7.3	-7.0		14.3	66	475.2500	7.8	-6.6	S	14.4
L	229.2625	7.8	-8.0	S	15.8	67	481.2500	8.0	-6.7	S	14.7
M	235.2625	8.7	-5.8		14.5	68	487.2500	7.8	-6.0	S	13.8
N	241.2625	8.8	-4.4		13.2	69	493.2500	7.9	-6.2	S	14.1
O	247.2625	9.0	-4.8		13.8	70	499.2500	8.2	-7.6	S	15.8
P	253.2625	9.3	-4.8		14.1	71	505.2500	8.4	-5.6	S	14.0
Q	259.2625	9.2	-5.2		14.4	72	511.2500	9.2	-5.2	S	14.4
R	265.2625	9.8	-4.5		14.3	73	517.2500	9.1	-6.1	S	15.2
S	271.2625	9.0	-3.6		12.6	74	523.2500	9.0	-5.3	S	14.3
T	277.2625	9.7	-4.3		14.0	75	529.2500	10.1	-5.2	S	15.3
U	283.2625	9.8	-3.9		13.7	76	535.2500	10.0	-3.1	S	13.1
V	289.2625	9.0	-4.4		13.4	77	541.2500	9.7	-3.8	S	13.5
W	295.2625	10.2	-2.9		13.1	78	547.2500	9.8	-5.4	S	15.2

PEAK TO VALLEY: 6.5

IN CHANNEL RESPONSE Test

CARRIER - TO - NOISE Test

COHERENT DISTURBANCES Test

LOW FREQUENCY DISTURBANCES Test

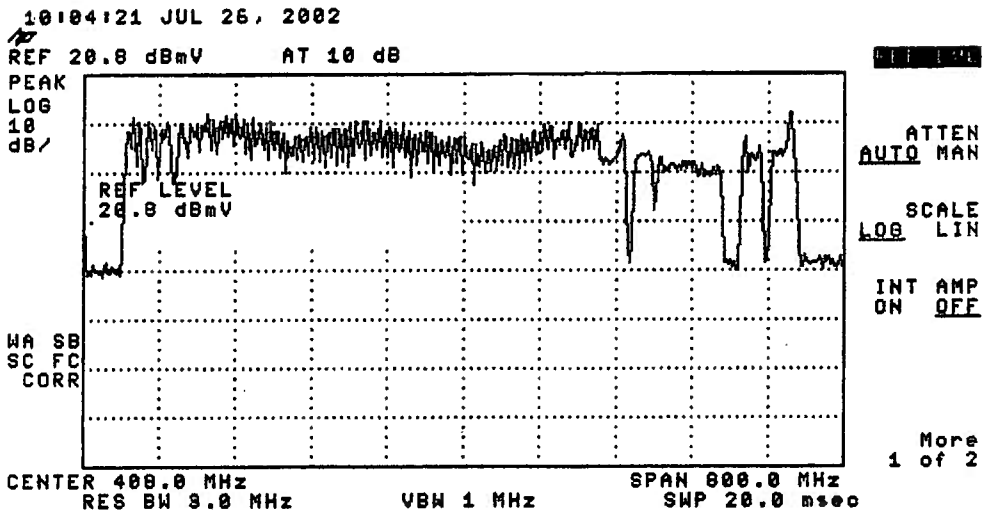
System Name: TIME WARNER ROME/ONEIDA **Date:** JULY 26,2002

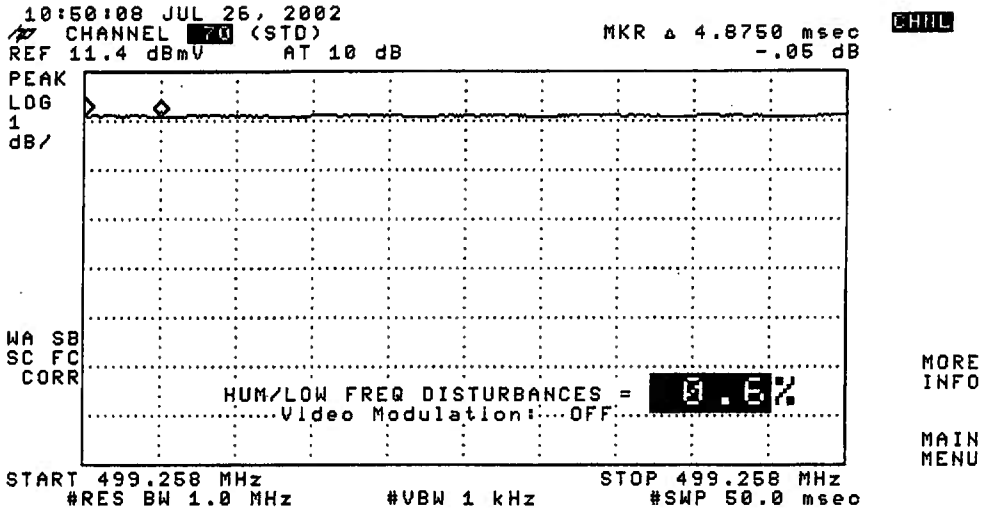
Test Performed By: JOEL MARMON/MARK D'AOUST

Location: W.MAIN ST. CONSTABLEVILLE

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (+/- dB)	Carrier to Noise Ratio (dB)	Discrete Disturbances (-dBc)			Hum (%)
			CIN	CSO	XMOD	
3	0.20	47.1	64.3	73.6		
19	0.80	46.5	64.8	75.2		
7	0.20	48.6	65.8	74.0		
31	0.50	48.3	62.7	71.8		
36	0.10	47.6	61.8	69.8		
43	0.20	48.3	61.5	70.8		
47	0.20	47.6	62.2	72.8		
55	0.40	47.5	60.8	69.5		
70	0.30	47.0	60.4	68.2		0.6


10:04:21 JUL 26, 2002
REF 20.8 dBmV
AT 10 dB
PEAK
LOG
10
dB/
REF LEVEL
20.8 dBmV
WA SB
SC FC
CORR
ATTEN
AUTO MAN
SCALE
LOG LIN
INT AMP
ON OFF
More
1 of 2
CENTER 400.0 MHz
SPAN 800.0 MHz
RES BW 3.0 MHz
VBW 1 MHz
SWP 20.0 msec


10:50:08 JUL 26, 2002
CHANNEL 70 (STD)
REF 11.4 dBmV
AT 10 dB
MKR Δ 4.8750 msec
-.05 dB
CHRL
PEAK
LOG
1
dB/
WA SB
SC FC
CORR
HUM/LOW FREQ DISTURBANCES = 0.6%
Video Modulation: OFF
MORE
INFO
MAIN
MENU
START 499.258 MHz
#RES BW 1.0 MHz
#VBW 1 kHz
STOP 499.258 MHz
#SWP 50.0 msec

Time Warner Cable
Syracuse Division

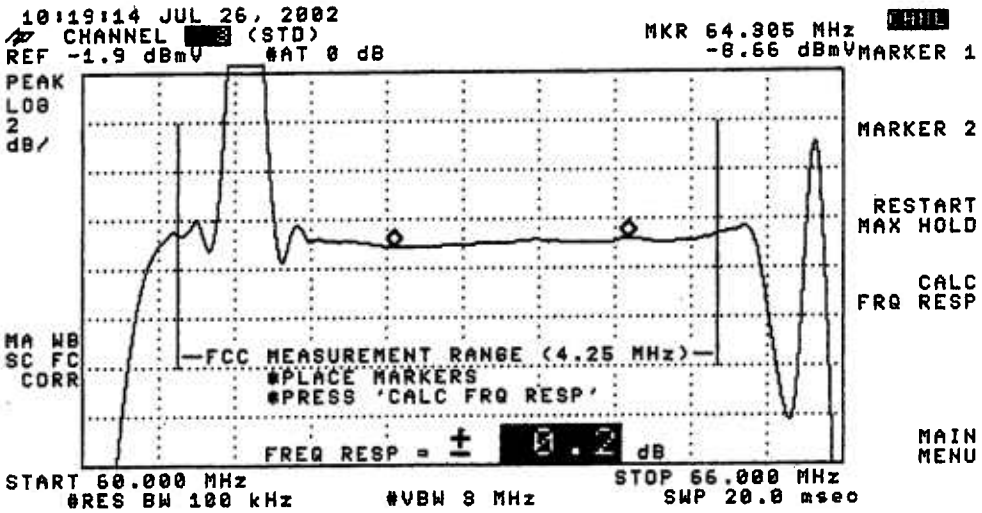
IN - CHANNEL FREQUENCY RESPONSE TEST

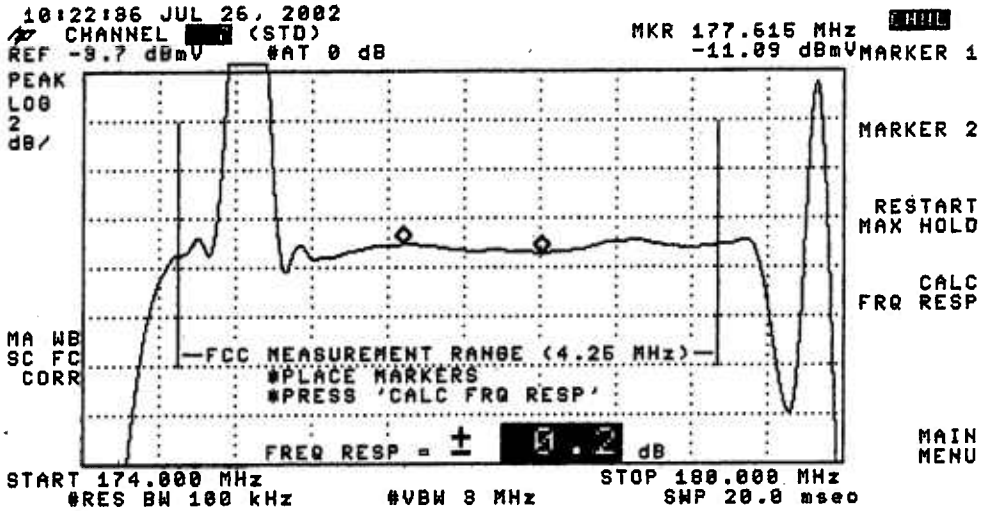
(76.605 (a) 6)

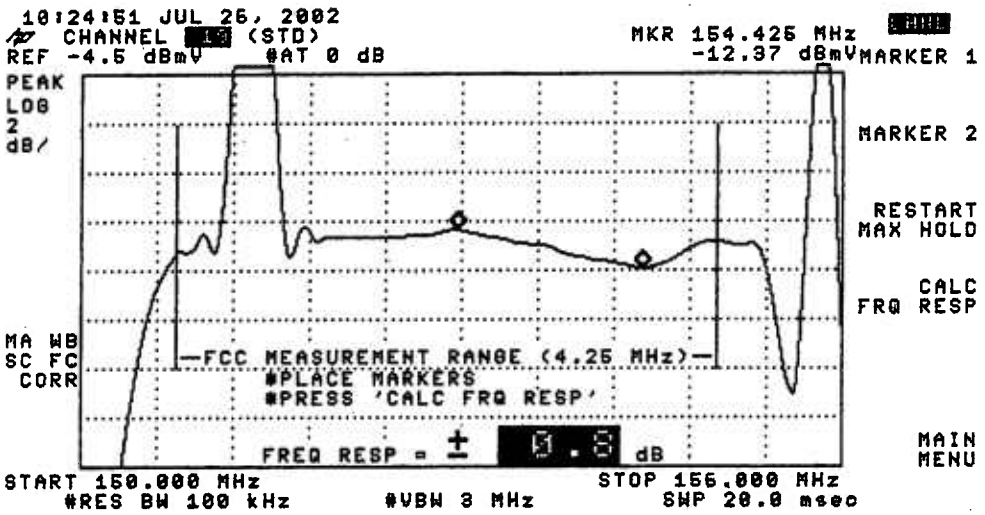
System Name: ROME/ONEIDA Date: AUGUST 22,2002

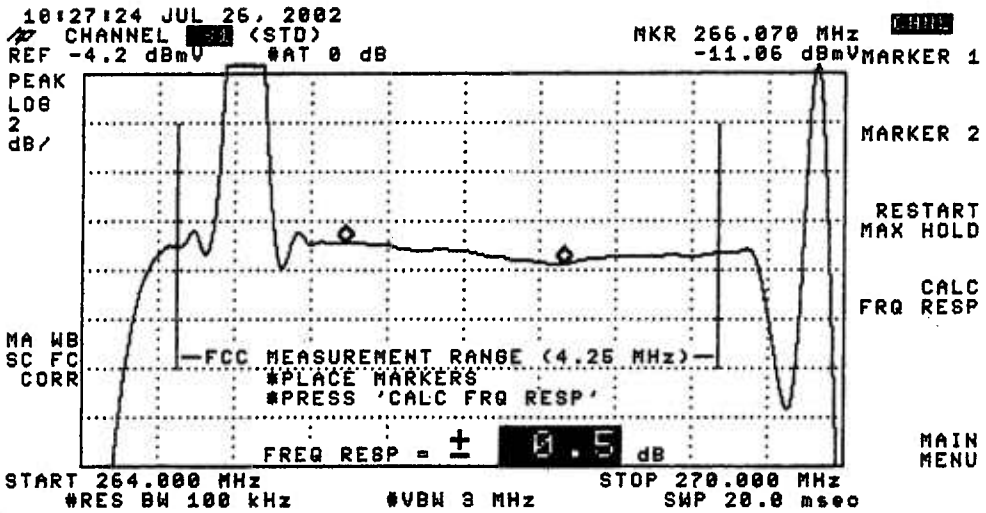
Test Performed By: MARK D'AOUST/JOEL MARMON Location: W. MAIN STR

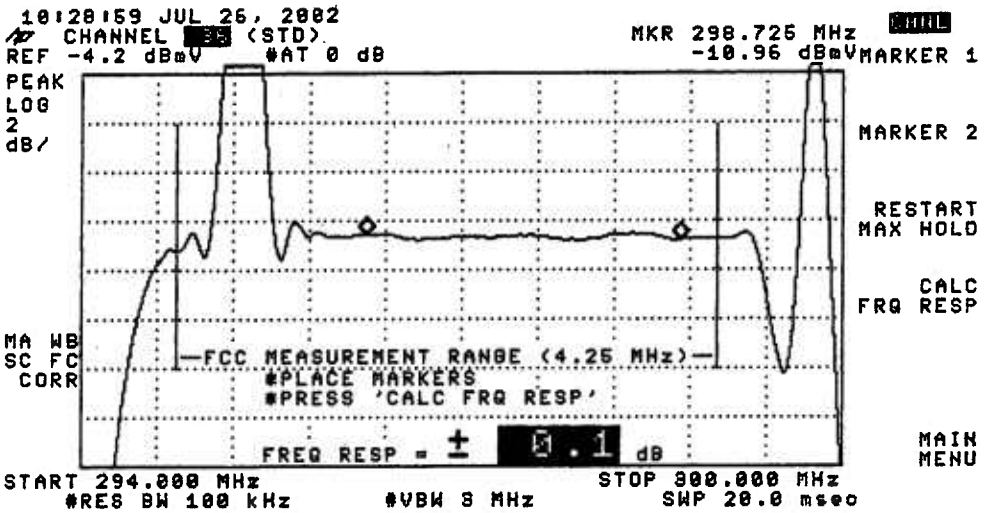
(SEE THE ATTATCHED SWEEP TRACES)

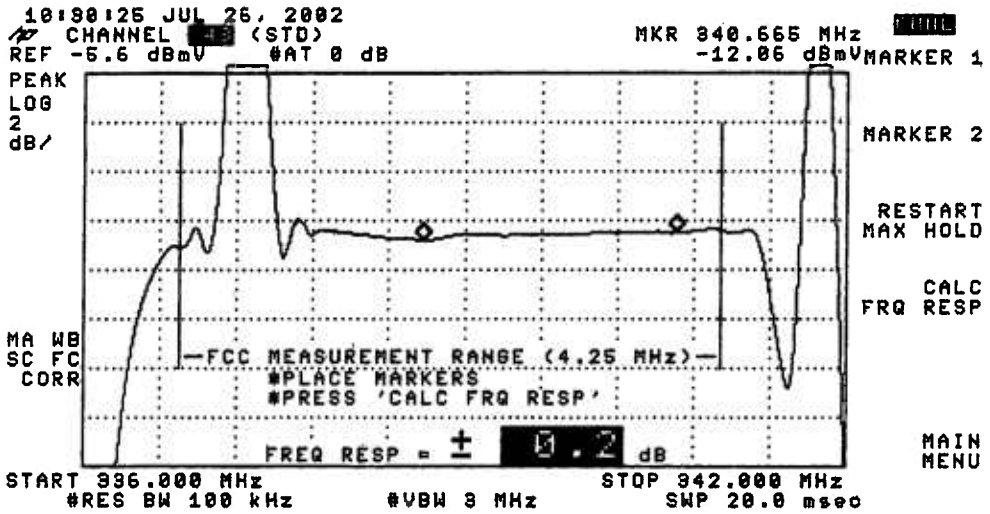

10:19:14 JUL 26, 2002
CHANNEL [redacted] (STD)
REF -1.9 dBmV
#AT 0 dB
MKR 64.305 MHz
-8.66 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 60.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 66.000 MHz
SWP 20.0 msec

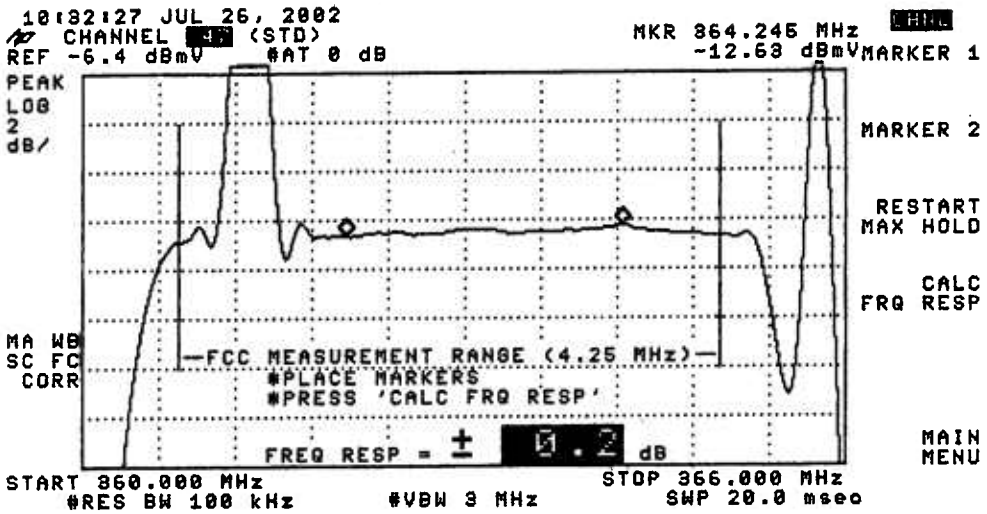

10:22:36 JUL 26, 2002
CHANNEL [redacted] (STD)
REF -9.7 dBmV
#AT 0 dB
MKR 177.615 MHz
-11.09 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 174.000 MHz
#RES BW 100 kHz
#VBW 8 MHz
STOP 180.000 MHz
SWP 20.0 msec

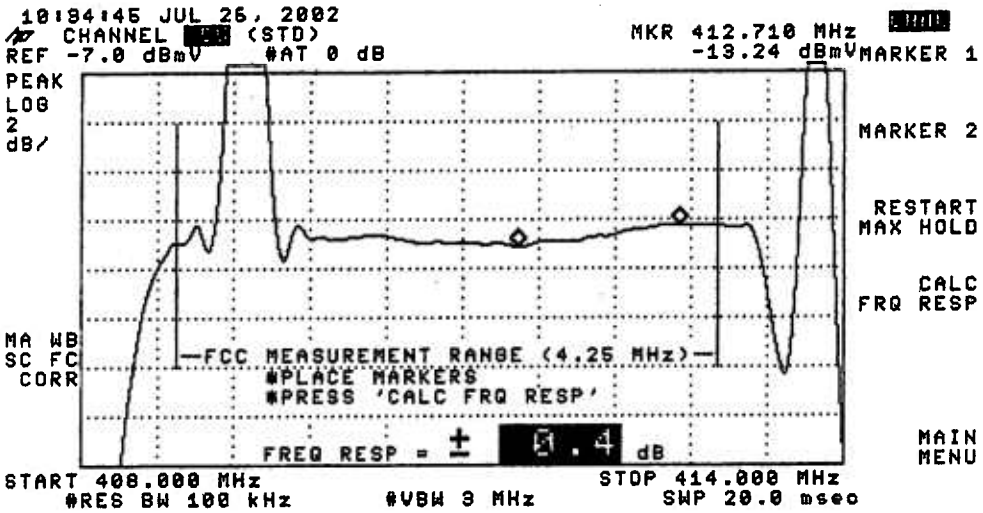

10:24:51 JUL 26, 2002
CHANNEL [redacted] (STD)
REF -4.5 dBmV
#AT 0 dB
MKR 154.425 MHz
-12.37 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.8 dB
MAIN
MENU
START 150.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 156.000 MHz
SWP 20.0 msec

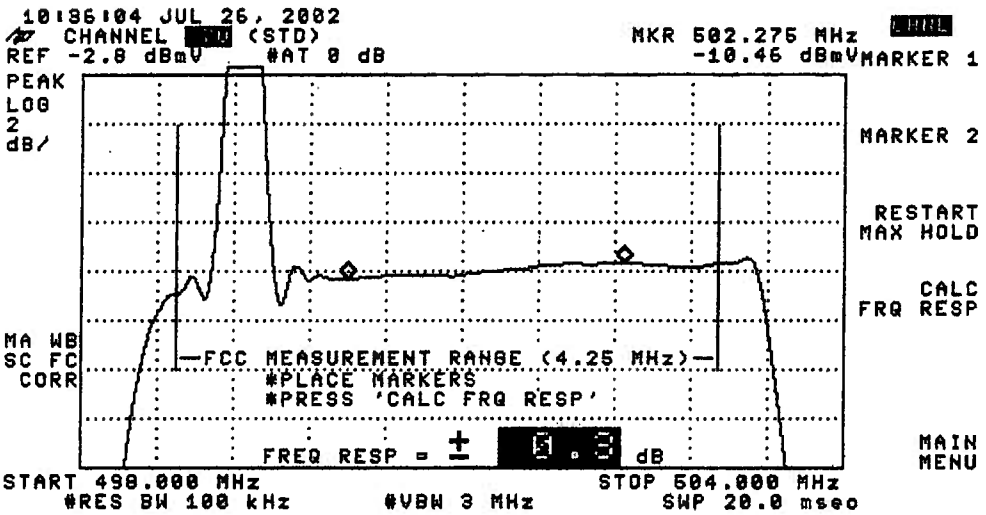

10:27:24 JUL 26, 2002
CHANNEL [redacted] (STD)
REF -4.2 dBmV
#AT 0 dB
MKR 266.070 MHz
-11.06 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.5 dB
MAIN
MENU
START 264.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 270.000 MHz
SWP 20.0 msec

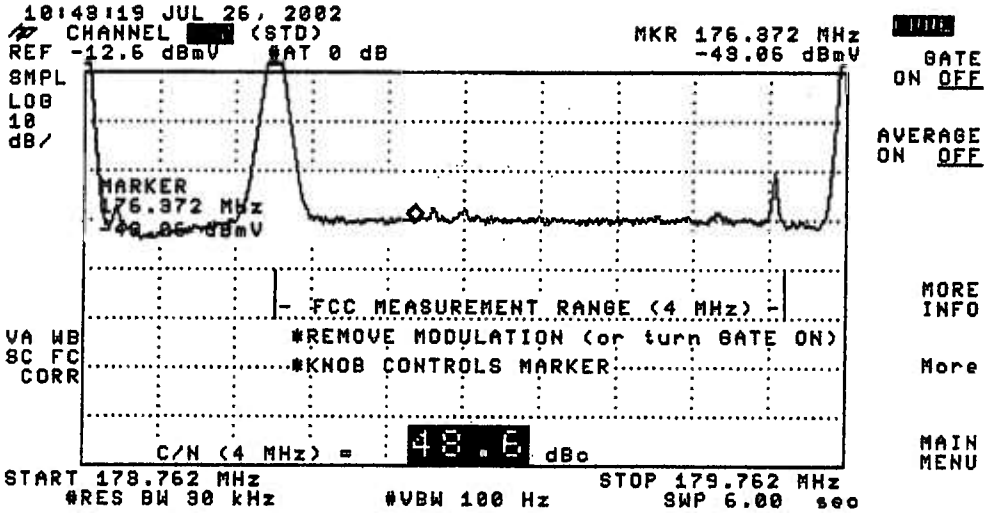

10:28:59 JUL 26, 2002
CHANNEL 35 (STD)
REF -4.2 dBmV
#AT 0 dB
MKR 298.725 MHz
-10.96 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
—FCC MEASUREMENT RANGE (4.25 MHz)—
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.1 dB
MAIN
MENU
START 294.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 300.000 MHz
SWP 20.0 msec

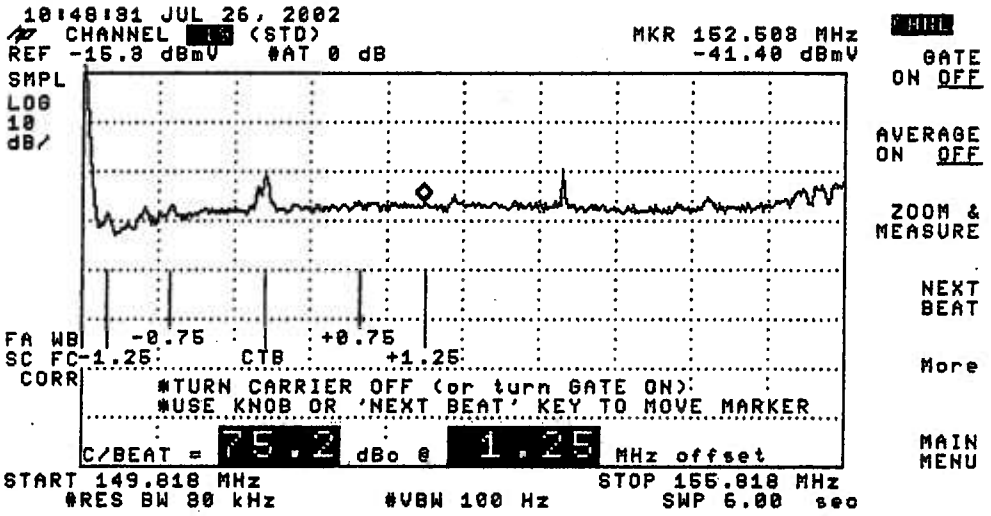

10:30:25 JUL 26, 2002
CHANNEL 48 (STD)
REF -5.6 dBmV
#AT 0 dB
MKR 940.665 MHz
-12.06 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 936.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 942.000 MHz
SWP 20.0 msec

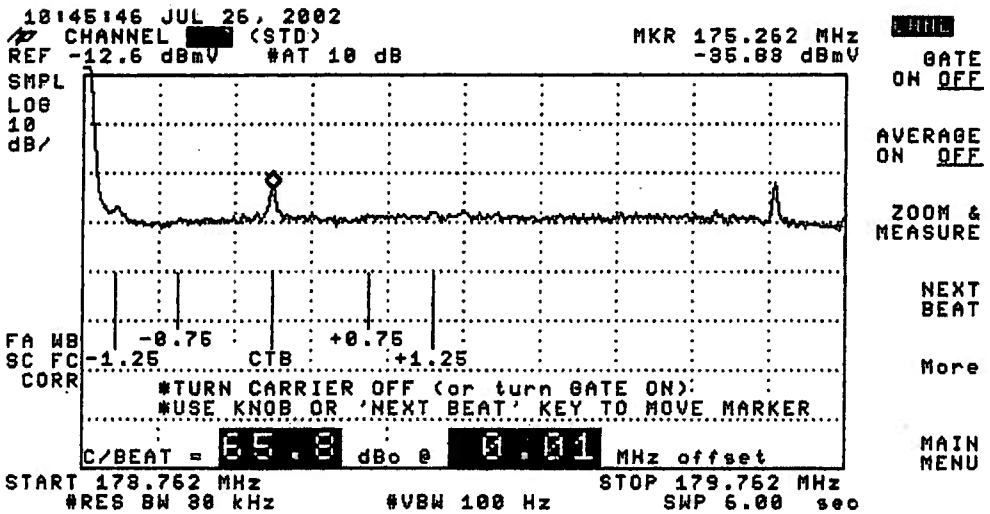

10:32:27 JUL 26, 2002
CHANNEL [redacted] (STD)
REF -6.4 dBmV
#AT 0 dB
MKR 364.245 MHz
-12.63 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 0.2 dB
MAIN
MENU
START 360.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 366.000 MHz
SWP 20.0 msec


10:34:45 JUL 25, 2002
CHANNEL [redacted] (STD)
REF -7.0 dBmV
#AT 0 dB
MKR 412.710 MHz
-13.24 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± 5.4 dB
MAIN
MENU
START 408.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 414.000 MHz
SWP 20.0 msec


10:36:04 JUL 26, 2002
CHANNEL [redacted] (STD)
REF -2.8 dBmV
#AT 0 dB
MKR 502.275 MHz
-10.46 dBmV
MARKER 1
PEAK
LOG
2
dB/
MARKER 2
RESTART
MAX HOLD
CALC
FRQ RESP
MA WB
SC FC
CORR
FCC MEASUREMENT RANGE (4.25 MHz)
#PLACE MARKERS
#PRESS 'CALC FRQ RESP'
FREQ RESP = ± [redacted] dB
MAIN
MENU
START 498.000 MHz
#RES BW 100 kHz
#VBW 3 MHz
STOP 504.000 MHz
SWP 20.0 msec


10:49:19 JUL 26, 2002
CHANNEL [redacted] (STD)
REF -12.6 dBmV
#AT 0 dB
MKR 176.372 MHz
-49.06 dBmV
SMPL
LOG
10
dB/
MARKER
176.372 MHz
-49.06 dBmV
- FCC MEASUREMENT RANGE (4 MHz) -
#REMOVE MODULATION (or turn GATE ON)
#KNOB CONTROLS MARKER
VA WB
SC FC
CORR
C/N (4 MHz) =
48.6
dBc
START 178.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 6.00 sec
[redacted]
GATE
ON OFF
AVERAGE
ON OFF
MORE
INFO
More
MAIN
MENU


10:48:31 JUL 26, 2002
CHANNEL 15 (STD)
REF -15.3 dBmV
#AT 0 dB
MKR 152.508 MHz
-41.40 dBmV
MKR
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
#TURN CARRIER OFF (or turn GATE ON)
#USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 75.2 dBc @ 1.25 MHz offset
START 149.818 MHz
#RES BW 80 kHz
#VBW 100 Hz
STOP 155.818 MHz
SWP 6.00 sec


10:45:46 JUL 26, 2002
CHANNEL [redacted] (STD)
REF -12.6 dBmV
#AT 10 dB
MKR 175.262 MHz
-35.88 dBmV
SMPL
LOG
10
dB/
FA WB
SC FC
CORR
-0.75
+0.75
-1.25
CTB
+1.25
#TURN CARRIER OFF (or turn GATE ON)
#USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER
C/BEAT = 65.8 dBc @ 0.01 MHz offset
START 178.762 MHz
#RES BW 30 kHz
#VBW 100 Hz
STOP 179.762 MHz
SWP 6.00 sec
[redacted]
GATE
ON OFF
AVERAGE
ON OFF
ZOOM &
MEASURE
NEXT
BEAT
More
MAIN
MENU

Visual Carrier Level Variation Test 76.605 (a) 4

System Name: ROME/ONEIDA

Test Point Location: WEST MAIN STR., CONSTABLEVILLE

Date: AUG. 1, 2002 Performed by: MARK D'AOUST

Meter Serial Number: CALAN 3010#US37241488

Chan	Freq. (MHz)	Temp F 70 Time 06:45	79 12:45	82 18:45	72 00:45	Max Variation	Chan	Freq. (MHz)	Temp F 70 Time 06:45	79 12:45	82 18:45	72 00:45	Max Variation
		Visual Level (dbmV)							Visual Level (dbmV)				
2	55.2500	9.6	7.9	8.3	9.1	1.7	AA	301.2625	10.9	9.9	10.4	10.7	1.0
3	61.2500	12.1	10.6	11.0	11.9	1.5	BB	307.2625	11.0	10.0	10.6	10.8	1.0
4	67.2500	12.2	10.6	11.0	12.0	1.6	CC	313.2625	10.9	10.1	10.4	10.7	0.8
5	77.2500	11.3	9.8	10.3	10.9	1.5	DD	319.2625	10.8	9.6	10.2	10.3	1.2
6	83.2500	11.0	9.9	10.2	10.6	1.1	EE	325.2625	10.8	9.0	9.3	10.2	1.8
							FF	331.2750	10.7	9.6	10.2	10.3	1.1
							GG	337.2625	10.3	9.5	9.7	10.4	0.9
A-5	91.2500	11.5	10.0	10.6	11.1	1.5	HH	343.2625	10.4	9.7	9.5	10.4	0.9
A-4	97.2500	12.5	11.3	11.4	12.4	1.2	II	349.2625	10.3	9.2	9.6	10.1	1.1
A-3	103.2500						JJ	355.2625	9.7	8.8	8.9	9.4	0.9
A-2	109.2750						KK	361.2625	9.2	8.5	9.0	8.9	0.7
A-1	115.2750	10.9	7.9	10.3	8.7	3.0	LL	367.2625	8.5	7.5	8.0	8.5	1.0
A	121.2625	11.1	10.3	10.8	11.3	1.0	MM	373.2625	8.5	7.5	7.8	8.5	1.0
B	127.2625	11.3	9.9	10.6	10.7	1.4	NN	379.2625	8.4	7.6	8.0	8.2	0.8
C	133.2625	11.4	10.5	10.8	11.2	0.9	OO	385.2625	8.2	7.2	7.4	8.3	1.1
D	139.2500	12.4	11.3	11.4	12.2	1.1	PP	391.2625	8.1	7.0	7.5	8.1	1.1
E	145.2500	12.4	11.1	11.3	11.8	1.3	QQ	397.2625	8.2	7.4	7.8	8.2	0.8
F	151.2500	11.4	10.2	10.8	11.2	1.2	RR	403.2500	8.1	7.5	7.8	8.2	0.7
G	157.2500	12.5	11.4	11.8	12.4	1.1	SS	409.2500	8.0	6.9	7.3	8.0	1.1
H	163.2500	12.9	11.9	12.2	12.8	1.0	TT	415.2500	7.1	6.2	6.5	6.9	0.9
I	169.2500	12.2	11.5	11.5	11.8	0.7	UU	421.2500	6.7	5.4	5.8	6.3	1.3
7	175.2500	11.7	10.9	10.9	11.8	0.9	VV	427.2500	6.5	5.4	6.3	6.6	1.2
8	181.2500	11.8	10.7	11.2	11.6	1.1	WW	433.2500	6.6	5.7	6.2	6.6	0.9
9	187.2500	10.9	10.1	10.5	10.9	0.8	XX	439.2500	6.9	6.1	6.8	7.2	1.1
10	193.2500	12.3	11.2	11.6	11.9	1.1	YY	445.2500	6.6	5.7	6.4	6.7	1.0
11	199.2500	10.5	9.6	10.0	10.4	0.9	ZZ	451.2500	7.3	6.1	6.7	7.5	1.4
12	205.2500	9.0	7.6	7.8	8.6	1.4	63	457.2500	8.0	6.6	7.7	8.2	1.6
13	211.2500	9.2	8.4	8.5	9.2	0.8	64	463.2500	8.6	6.9	8.1	8.6	1.7
J	217.2500	8.6	7.6	7.9	8.4	1.0	65	469.2500	8.7	7.2	8.0	8.7	1.5
K	223.2500	8.6	7.3	8.1	7.8	1.3	66	475.2500	9.1	7.8	8.5	9.1	1.3
L	229.2625	8.6	7.8	8.2	8.4	0.8	67	481.2500	8.9	8.0	8.8	9.3	1.3
M	235.2625	9.3	8.7	8.7	9.1	0.6	68	487.2500	8.9	7.8	8.7	9.1	1.3
N	241.2625	9.3	8.8	8.8	9.2	0.5	69	493.2500	9.3	7.9	9.0	9.4	1.5
O	247.2625	9.7	9.0	9.3	9.7	0.7	70	499.2500	9.4	8.2	9.1	9.5	1.3
P	253.2625	10.1	9.3	9.5	10.1	0.8	71	505.2500	9.6	8.4	9.2	9.8	1.4
Q	259.2625	10.2	9.2	10.2	10.1	1.0	72	511.2500	10.4	9.2	10.1	10.6	1.4
R	265.2625	10.8	9.8	10.3	10.1	1.0	73	517.2500	10.0	9.1	9.8	10.3	1.2
S	271.2625	9.7	9.0	9.3	9.8	0.8	74	523.2500	9.9	9.0	9.6	10.6	1.6
T	277.2625	10.4	9.7	9.9	10.3	0.7	75	529.2500	11.0	10.1	11.2	11.6	1.5
U	283.2625	10.6	9.8	10.1	10.7	0.9	76	535.2500	11.5	10.0	10.9	11.7	1.7
V	289.2625	10.3	9.0	9.6	9.5	1.3	77	541.2500	11.1	9.7	10.5	11.0	1.4
W	295.2625	11.0	10.2	10.4	10.9	0.8	78	547.2500	11.1	9.8	10.8	11.3	1.5

Max NonAdjacent Channel Level Diff.	6.5	Max Variance from last proof-of-performance test	4.5
Max Adjacent Channel Level Diff.	2.8	Date of last proof-of-performance test	FEB.27,2002

Note: Make measurements through a 100 ft. test drop cable without a converter.

TIME WARNER CABLE

SYRACUSE DIVISION

FCC TECHNICAL TESTING STANDARDS

Revised 1-6-98

VISUAL CARRIER FREQUENCY AND AURAL CARRIER CENTER FREQUENCY FCC76.612 (a) (b) and 76.605 (a) (3)

Specification:

FCC: Visual carrier frequency must meet part 76.612 (a) and (b) specifications. The center frequency of the aural carrier must be 4.5Mhz, +/- 5Khz above the frequency of the of the visual carrier at the output of the modulating or processing equipment of the cable television system.

Syracuse Division: +/- 1Khz on aural, per FCC 76.612 air nav., +/-25Khz non air nav.

Note: New division spec of +/- 3.5Khz on visual air nav. as of 2-97

Picture Effect:

Various impairments

Recommended Procedures:

-All measurements to be made at the headend testpoint.

-Connect equipment as shown in block diagram below.

-Record the visual carrier frequency and intercarrier frequency of all system channels.

-You may use either a tuned frequency counter or as spectrum analyzer with a precision frequency option.

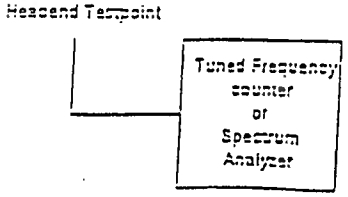
-Follow the manufacturers recommended methods for performing this measurement.

-Visual carrier frequencies in the frequency bands 108.0-137.0Mhz and 225.0-400.0Mhz need to be properly offset as per FCC rule 76.612.

-For non-air nav visual frequencies you should observe the +/- 25khz tolerance.

-Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Block Diagram:



VISUAL, AURAL CARRIER LEVEL: 24 HR VARIATION

(LEVEL REQUIREMENTS)

FCC 76.605 (a) (4),(5),(6)

Specification:

FCC:

-The visual signal level of each channel must be measured and recorded, along with the date, time of measurement, and temperature, once every 6 hours(at intervals of not less than 5 hours or no more than 7 hours after the last measurement),which shall include the coldest and warmest months(January or February and in July or August) during a 24hr period.

-Visual carrier level shall be no less than 0dbmv at subscriber terminal and no less than +3dbmv at the end of a 100' drop.

-Visual signal level shall not vary by more than 8db within 24 hours or in any 6 month interval.

-Variance of adjacent (6Mhz) visual carriers shall not vary by more than 3db.

-Variance of non-adjacent channels shall not vary by more than 10db plus 1db for every 100Mhz above 300Mhz.

-The aural carrier amplitude shall be between 10db and 17db down from the visual carrier.

Recommended Procedures:

-Prior to the start of testing the Headend levels should be checked and adjusted to obtain no more than 1db max peak to valley with all non-scrambled aural carriers approximately 14db down from video.

-Store the Headend levels in the same meter that will be used for your system testpoint testing , note the time from the meter and the bin number that this was stored in. This will

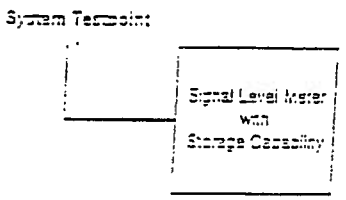
be entered into the Headend test forms at a later time.

-If you use more than one meter for your 24 hr test, then you should verify it's response against the response of the meter used for headend and testpoint testing.

-At each testpoint you should again store the recorded levels prior to the converter. The Syracuse Division has decided to test prior to the converter and insert an attatchment stating the specifications of the converter.

-For the 24hr testing you should have a watch to note the time and should either use a thermometer to record the temperature or obtain this from the weather channel as the temperature reading from the meter will only indicate the temperature of the meter.

Block Diagram:



IN-CHANNEL FREQUENCY RESPONSE

FCC 76.605 (a) (7)

Specification:

- FCC: +/- 2db from 750Khz to 5Mhz above the lower boundary frequency of the cable television channel.

Syracuse Division: Same as FCC

Picture Effect:

Variations can affect not only the relative amplitude of different frequency components of the visual signal, but relative visual/aural carrier level and chroma delay.

Recommended Procedures:

-Measurements should be made on all FCC designated test channels at each system testpoint. The frequency response of all channels should be verified periodically at the headend testpoint.

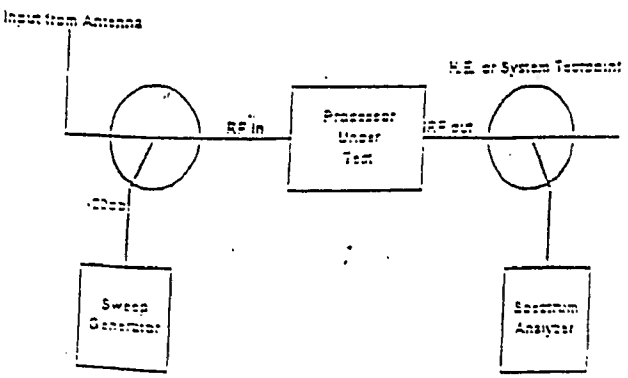
-Connect equipment as shown in the block diagrams below.

-This procedure varies based on the type of analyzer used and the type of channel, ie; modulator or processor. The block diagrams show the two most common setups for making this measurement.

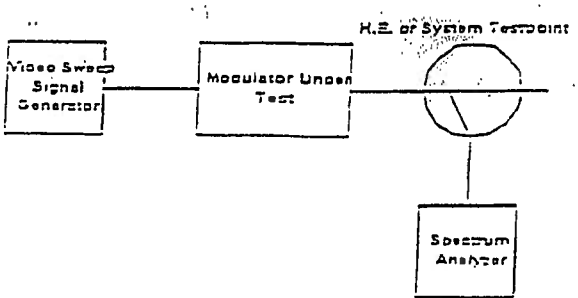
-Record the +/-db number(peak to valley/2) on page 3of 5 for each testpoint.

-Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Block Diagrams:



RF Processor Sweep Setup



Video Sweep of Modulators

CARRIER TO NOISE RATIO

(C/N)

FCC 76.605 (a) (8)

Specification:

FCC: Minimum of 43db as of July 1, 1995

Syracuse Division: As per your system design specs or a minimum of 43db

Time Warner Corporate: 47db prior to converter

Picture Effect:

Noisy or snowy pictures. This can range from "imperceptible" at ratios above 53db to "annoying" at levels less than 40db. The ratios from 40 to 53db are subjective.

Recommended Procedures:

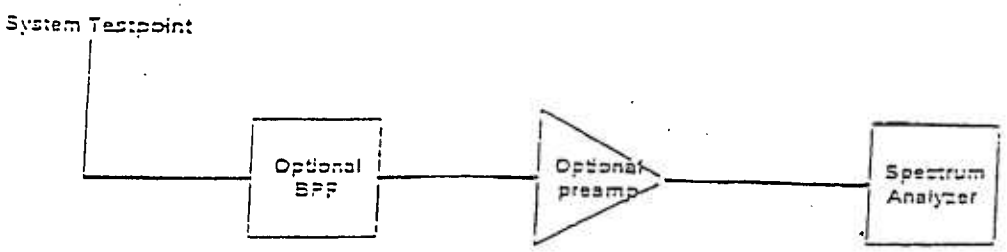
-Measurements should be made on all of the FCC designated test channels at each testpoint

-Connect equipment as shown in block diagram below.

-Since most systems now have analyzers or signal level meters that automate this measurement, you should follow the manufacturers recommended method for this measurement. This would include such items as the proper RF input level required for measurement, is the system noise floor higher than the analyzer noise floor?, etc.

-Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Block Diagram:



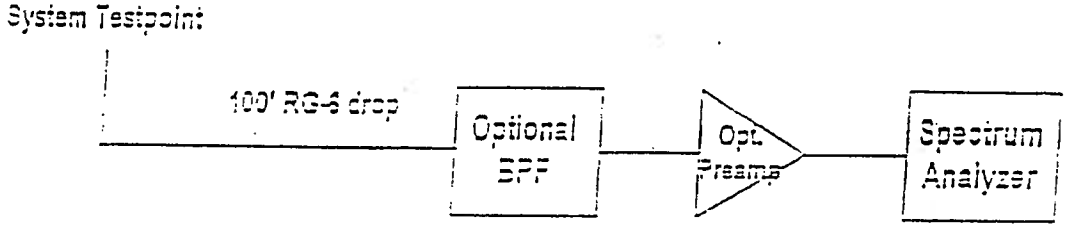
Note:

1) Intermod products can fall anywhere within a 6Mhz bandwidth.

2) CSO fall at +/- .75Mhz and +/- 1.25Mhz, we only need to record the positive number as the negative numbers do not fall in the lower adjacent channel. If this measurement is automated then it will give you the worst case number. This is fine as long as it meets or exceeds spec.

3) CTB will fall at the visual carrier frequency. When picking test channels for the FCC proof you should pick one channel that yields worst case CTB for your specific channel loading.

Block Diagram:



COHERENT DISTURBANCES

(CTB,CSO,CROSS MOD,INTERMOD)

FCC 76.605 (a) (9)

Specification:

FCC: Ratio of visual signal level to coherent disturbances shall not be less than 51db

Syracuse Division: As per your system design specs with a minimum of 51db

Time Warner Corporate: CSO-55db, CTB-53db prior to converter

Picture Effect:

Interfering line patterns,horizontal line streaks, beats in the picture, etc.

Recommended Procedures:

-Measurements should be made on all of the FCC designated test channels at each testpoint.

-Connect equipment as shown in block diagram below.

-Since most systems now have analyzers that automate these measurements, you should follow the manufacturers recommended method for performing these measurements. This would include such items as the proper RF input level that is required for the measurement, ensuring that you are not overloading the front end of the analyzer, etc.

-For best results you should look for intermod products with an analog display analyzer.

-All measurements are to be made without the converter (see page 8).

-Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

LOW FREQUENCY DISTURBANCES

(HUM MODULATION)

FCC 76.605 (a) (11)

Specification:

FCC: <3%

Syracuse Division: <1%

Picture Effect:

Horizontal bars or stripes slowly moving from the bottom of the screen to the top.

Recommended Procedures:

-Measurement must be made on at least one of the FCC designated test channels.

-Connect equipment as shown in block diagram below.

-Since most systems now have analyzers or signal level meters that automate this measurement, you should follow the manufacturers recommended method for this measurement. This would include such items as the proper RF input level required for measurement, should measurement be made on a cw carrier?, etc.

-Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Block Diagram:

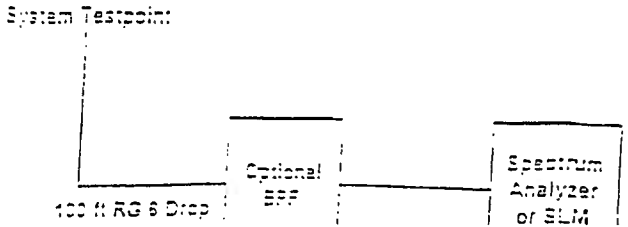


Exhibit 1

Question 5(b): Applicant serves the following additional Municipalities from the same headend or from a different headend but in the same or adjacent county:

Municipality	Subscribers	Municipality	Subscribers
Town of Annsville	515	Town of Floyd	979
Griffiss AFB	6	Village of Holland Patent	175
Town of Lee	1,720	Town of Marcy	261
City of Rome	11,119	Town of Trenton	140
Town of Western	362	Town of Westmoreland	1,066
Town of Whitestown	5	Village of Canastota	1,649
Village of Cleveland	233	Village of Chittenango	1,619
Town of Constantia	701	Town of Fenner	20
Town of Lenox	860	Town of Lincoln	214
Village of Munnsville	214	Village of Oneida Castle	377
City of Oneida	4,190	City of Sherrill	1,149
Town of Stockbridge	179	Town of Sullivan	2,791
Town of Vernon	687	Village of Vernon	422
Town of Verona	1,324	Village of Wampsville	178
Town of West Monroe	882		

Exhibit 2

Question 10: The number of miles of new cable television plant placed in operation by applicant during the past twelve (12) months in the municipalities specified in Question 5(b) are:

Municipality	Miles of Plant	Municipality	Miles of Plant
Town of Sullivan	2.10 Miles	Town of Vernon	0.80 Miles
Town of West Monroe	0.10 Miles		

PROOF OF PUBLICATION
State of New York, County of Onondaga ss. Diane B. Scaffido, of the City of Syracuse, in said County, being duly sworn, doth depose and says: she is the Principal Clerk in the office of THE POST-STANDARD, a public newspaper, published in the City of Syracuse, Onondaga County, New York and that the notice, of which the annexed is a printed copy cut from said newspaper, was printed and published in the regular edition and issue of said newspaper on the following days, viz.:

TIME WARNER CABL
Ad #77272 PO # LEGALNOTICEP
Paper PS Start 5/09 Stop 5/16
Times 2
Runs 5/9,5/16
Paper Start Stop
Times
Runs
Text LEGALNOTICEPLE

LEGAL NOTICE
PLEASE TAKE NOTICE THAT Time Warner Entertainment-Advance/Newhouse Partnership, a New York general partnership organized and existing under the laws of the State of New York d/b/a Time Warner Cable, has filed an application for renewal of its Certificate of Confirmation and Cable Television Franchise in the Village of Chittenango, Madison County, New York, with the New York State Public Service Commission. The application is available for public inspection at the offices of the New York State Public Service Commission and at the office of the Clerk of the Village of Chittenango, 222 Genesee Street, Chittenango, New York 13037, during normal business hours. Any interested persons may file comments on the application with the New York State Public Service Commission, Three Empire State Plaza, Albany, New York 12223.
TIME WARNER CABLE

Diane B. Scaffido
Principal Clerk
Subscribed and Sworn to before me, this 5/16/03

Marguerite E Dowey 5/14/06
NOTARY PUBLIC, ONONDAGA COUNTY, NY Commission Expires

PROOF OF PUBLICATION

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Ad #77272 PO # LEGALNOTICEP
Paper PS Start 5/09 Stop 5/16
Times 2
Runs 5/9,5/16
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Times
Runs
Text LEGALNOTICEPLE

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TIME WARNER CABLE

Diane B. Scaffido
Principal Clerk

Subscribed and Sworn to before me, this 5/16/03

Marguerite E Lowry 5/14/06
NOTARY PUBLIC, ONONDAGA COUNTY, NY Commission Expires

PROOF OF PUBLICATION

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MENTER RUDIN & T
Ad #39150 PO # LEGALNOTICEP
Paper PS Start 3/19 Stop 3/19
Times 1
Runs
Paper Start Stop
Times
Runs
Text LEGALNOTICEPUB

Diane B. Scaffido
Principal Clerk

Subscribed and Sworn to before me, this 3/19/03

Marguerite E Soucy 5/14/06
NOTARY PUBLIC, ONONDAGA COUNTY, NY Commission Expires

LEGAL NOTICE - PUBLIC HEARING: VILLAGE OF CHITTENANGO AND TOWN OF SULLIVAN MADISON COUNTY, NEW YORK: PLEASE TAKE NOTICE, THAT the Village Board of the Village of Chittenango, and the Town Board of the Town of Sullivan, Madison County, New York has scheduled a joint public hearing for the 2nd day of April, 2003 at 7:00 p.m. at the Town of Sullivan Office Building, 7507 Lakeport Road, Chittenango, New York, to consider renewal of the cable television franchise held by Time Warner Entertainment-Advance/Newhouse Partnership (hereinafter referred to as "Time Warner Cable"). The purpose of the hearing is to consider a Franchise Renewal Agreement which would renew Time Warner Cable's cable television franchise for an additional ten (10) years and bring the franchise into conformity with certain provisions of the Federal Cable Communications Policy Act of 1984, as amended. The Agreement between Time Warner Cable and the Village of Chittenango, if approved by the Village Board, and the Agreement between Time Warner Cable and the Town of Sullivan, if approved by the Town Board, shall not take effect without the prior approval of the New York State Public Service Commission. A copy of the Franchise Renewal Agreement is available for public inspection at the Office of the Chittenango Village Clerk at the Municipal Building, Genesee Street, Chittenango, New York (telephone # (315) 687-3946), and the Office of the Sullivan Town Clerk at 7507 Lakeport Road, Chittenango, New York 13037 (telephone # (315) 687 7221) during normal business hours. Interested persons may file comments or objections with the New York State Public Service Commission, Three Empire State Plaza, Albany, New York 12223. DATED: March 18, 2003, Chittenango, New York, BY ORDER OF THE VILLAGE BOARD, BY ORDER OF THE TOWN BOARD OF OF THE VILLAGE OF CHITTENANGO, THE TOWN OF SULLIVAN. Jill A. Quist, Charlotte A Fergler, Village Clerk, Town Clerk

Excerpt from Village of Chittenango Village Board minutes 3/25/03

Cable TV Agreement Public Hearing
The Mayor advised that there will be a joint public hearing on April 2, 2003 at 7 p.m. at the Town of Sullivan offices for the Cable TV Agreement. Upon the motion made by Trustee Goeler, seconded by Trustee Laube, Cable Franchise agreement public hearing scheduled for April 2, 2003 at 7 p.m. All members present voting in favor.

Excerpt from Village of Chittenango Village Board minutes 4/22/03

Time Warner
The Board reviewed the new 10-year renewal contract for Time Warner Cable. Attorney Iaconis has reviewed the document and there were a few minor items that needed correcting and have been corrected. The Village and the Town representatives have also reviewed the contract. Attorney Iaconis suggested that the complaint resolution procedure be attached. The representative from Time Warner stated it was covered by Section 590 and 596 in the agreement. Attorney Iaconis is satisfied with the document. The franchise fee will remain at 3%. The Tuscarora Road office will be closing and payments and equipment exchange and pickup will be at the Chittenango Pharmacy. This agreement only covers cable service not Road Runner. Upon the motion made by Trustee Goeler, seconded by Trustee Laube, Board authorizes the Mayor to sign the 10-year renewal agreement for Time Warner Cable. All members present voting in favor.

These are actual excerpts from the official Village of Chittenango Board of Trustees meetings.

Jill A. Doss
Village Clerk

TOWN BOARD
REGULAR MEETING
APRIL 2, 2003

A regular meeting of the Town Board of the Town of Sullivan was convened at the Town Office Building by Supervisor John E. Gladney at 7:00 p.m.

Those in attendance for the meeting were: Supervisor John E. Gladney, Councilors: John E. Brzuszkiewicz, William S. Cole, and David O. Miner, Town Clerk, Charlotte A. Ferstler, Highway Superintendent, Elwin C. Centner, Jr.

Absent were Councilor Thomas J. Kopp Jr., and Attorney for the Town, Donald P. Colella, Esq.

Also in attendance were members of the public.

Pledge to the flag was led by Supervisor Gladney.

A motion was duly made by Councilor Cole, seconded by Councilor Miner, and unanimously passed by the Board, approving the minutes of the Town Board meetings of March 5th and 14th, 2003.

CULVERT PIPE BID OPENING

The bid for culvert pipe for the Highway Department for the year 2003 was opened by Supervisor, John E. Gladney at 7:01 p.m. The bid, together with a non-collusive bid certificate, was received from Otsego Iron & Metal Co. The bid was turned over to the Highway Superintendent for his review.

CRUSHED STONE BID OPENING

The bids for crushed stone for the Highway Department for the year 2003 were opened by Supervisor, John E. Gladney at 7:02 p.m. The bids, together with a non-collusive bid certificate from each bidder, were received from Callahan Industries, Inc.& T.H. Kinsella, Inc. The bids were turned over to the Highway Superintendent for his review.

JOINT PUBLIC HEARING

THE FOLLOWING IS THE JOINT PUBLIC HEARING OF THE BOARDS OF THE VILLAGE OF CHITTENANGO AND TOWN OF SULLIVAN:

The Supervisor, John E. Gladney, opened the Joint Public Hearing at 7:10 p.m. and the Town Clerk read the notice of the Joint Public Hearing of the Village Board of the Village of Chittenango and the Town Board of the Town of Sullivan regarding the renewal of the cable television franchise held by Time Warner Entertainment-Advance/Newhouse Partnership (hereinafter referred to as "Time Warner Cable").

The purpose of the hearing is to consider a Franchise Renewal Agreement which would renew Time Warner Cable's cable television franchise for an additional ten (10) years and bring the franchise into conformity with certain provisions of the Federal Cable Communications Policy Act of 1984, as amended.

Those in attendance representing the Village of Chittenango were: Robert Freunscht, Mayor; and Councilors: Ronny Goeler and Alan Laubc

Those in attendance representing the Town are as identified above.

The Supervisor opened the public hearing for questions and comments from the public. No one spoke in favor of or against the annexation.

A motion was duly made by Councilor Cole, seconded by Councilor Brzuszkiewicz, and unanimously passed by both Boards to close the public hearing at 7:15 p.m.

INFORMATIONAL MEETING FOR PROPOSED FYLER/ROXBURY WATER DISTRICT

The informational meeting to discuss the costs to property owners of the proposed district began at 7:15 p.m. John C. Dunkle, P.E. of engineering firm of Dunn & Sgromo Engineers gave a presentation, disclosing the revised estimated costs of water service.

Mr. Dunkle prepared a handout detailing the approximate costs of obtaining water service, the anticipated number of units and a map of the proposed district. A copy of the material is on file in the office of the Town Clerk.

The residents of the district signed a petition for the formation of the district and requested the Board schedule a public hearing pursuant to Article 12 of the Town Law as provided in the petition.

SCHEDULING PUBLIC HEARING FOR PROPOSED FYLER/ROXBURY WATER DISTRICT

A motion was duly made by Councilor Cole, seconded by Councilor Miner and unanimously passed by the Board, scheduling a public hearing to consider the formation of the proposed Fyler/Roxbury Water District for the next regular meeting of the Board scheduled for Wednesday, May 7, 2003, at 7:00 p.m. at the Town of Sullivan Office Building. Full resolution on file in Office of Town Clerk.