

FOR
FCC
USE
ONLY

FCC 301

APPLICATION FOR CONSTRUCTION PERMIT FOR COMMERCIAL BROADCAST STATION

FOR COMMISSION USE ONLY
FILE NO.

Section I - General Information

1	Legal Name of the Applicant Kensington Digital Media, L.L.C.		
	Mailing Address PO Box 681044		
	City Franklin	State or Country (if foreign address) TN	ZIP Code 37068
	Telephone Number (include area code) (260) 413-0144	E-Mail Address (if available) trichards@kensington.media	
	FCC Registration Number 0021225537	Call Sign WYGI	Facility ID Number 21473
2.	Contact Representative (if other than applicant) Nancy A. Ory		Firm or Company Name Lerman Senter PLLC
	Mailing Address		
	City Washington	State or Country (if foreign address) DC	ZIP Code 20036
	Telephone Number (include area code) (202) 416-6791	E-Mail Address (if available) nory@lermansenter.com	

3. If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114):

☐ Governmental Entity ☐ Other _____

4. Application Purpose.

- | | |
|--|--|
| <input type="checkbox"/> New Station | <input type="checkbox"/> Major Modification of construction permit |
| <input type="checkbox"/> New Station with Petition for Rulemaking or Counterproposal to Amend FM Table of Allotments | <input type="checkbox"/> Minor Modification of construction permit |
| <input type="checkbox"/> New Station with Petition for Rulemaking or Counterproposal to Amend FM Table of Allotments using Tribal Priority | <input type="checkbox"/> Major Amendment to pending application |
| <input type="checkbox"/> Minor Amendment to pending application | |
| <input type="checkbox"/> Major Change in licensed facility | |
| <input checked="" type="checkbox"/> Minor Change in licensed facility | |

a. File number of original construction permit: _____ ☐ N/A

b. Service Type: ☒ AM ☐ FM ☐ TV ☐ DTV ☐ DTS

c. DTV Type: ☐ Pre-Transition ☐ Post-Transition ☐ Both

d. Community of License:

City	State
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e. Facility Type: ☒ Main ☐ Auxiliary

If an amendment, submit as an Exhibit a listing by Section and Question Number of the portions of the pending application that are being revised.

Exhibit No.
N/A

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

Section II - Legal

1. **Certification.** Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets. ☒ Yes ☐ No

2. **Parties to the Application.**

- a. List the applicant, and, if other than a natural person, its officers, directors, stockholders and other entities with attributable interests, non-insulated partners and/or members. If a corporation or partnership holds an attributable interest in the applicant, list separately its officers, directors, stockholders and other entities with attributable interests, non-insulated partners and/or members. Create a separate row for each individual or entity. Attach additional pages if necessary.

(1) Name and address of the applicant and each party to the application holding an attributable interest (if other than individual also show name, address and citizenship of natural person authorized to vote the stock or holding the attributable interest). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and other entities with attributable interests, and partners.

(2) Citizenship.

(3) Positional Interest: Officer, director, general partner, limited partner, LLC member, investor/creditor attributable under the Commission's **equity/debt plus** standard, etc.

(4) Percentage of votes.

(5) Percentage of total assets (equity plus debt).

(1)	(2)	(3)	(4)	(5)
N/A				

- b. Applicant certifies that equity and financial interests not set forth above are non-attributable.

☐ Yes ☐ No

See Explanation
in Exhibit No.

☒ N/A

3. **Other Authorizations.** List call signs, locations, and facility identifiers of all other broadcast stations in which applicant or any party to the application has an attributable interest.

Exhibit No.

☒ N/A

4. **Multiple Ownership.**

- a. Is the applicant or any party to the application the holder of an attributable radio joint sales agreement or an attributable radio or television time brokerage agreement in the same market as the station subject to this application?

☐ Yes ☒ No

If "YES," radio applicants must submit as an Exhibit a copy of each such agreement for radio stations.

Exhibit No.

Section II - Legal

- b. Applicant certifies that the proposed facility complies with the Commission's multiple ownership rules.

☒ Yes ☐ No

Radio applicants only: If "Yes," submit an Exhibit providing information regarding the market, broadcast station(s), and other information necessary to demonstrate compliance with 47 C.F.R. Section 73.3555(a).

See Explanation
in Exhibit No.

All Applicants: If "No," submit as an Exhibit a detailed explanation in support of an exemption from, or waiver of, 47 C.F.R. Section 73.3555.

- c. Applicant certifies that the proposed facility:

☐ Yes ☐ No

- (1) does not present an issue under the Commission's policies relating to media interests of immediate family members;
- (2) complies with the Commission's policies relating to future ownership interests; and
- (3) complies with the Commission's restrictions relating to the insulation and non-participation of non-party investors and creditors.

See Explanation
in Exhibit No.

- d. Does the Applicant claim status as an "eligible entity," that is, an entity that qualifies as a small business under the Small Business Administration's size standards for its industry grouping (as set forth in 13 C.F.R. Section 121.201), and holds:

☐ Yes ☒ No

- (1) 30 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet; or
- (2) 15 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet, provided that no other person or entity owns or controls more than 25 percent of the outstanding stock or partnership interests; or
- (3) more than 50 percent of the voting power of the corporation that will own the media outlet (if such corporation is a publicly traded company)?

See Explanation
in Exhibit No.

All applicants: If "Yes," submit as an Exhibit a detailed showing demonstrating proof of status as an eligible entity.

5. **Character Issues.** Applicant certifies that neither applicant nor any party to the application

☒ Yes ☐ No

- a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or
- b. any pending broadcast application in which character issues have been raised.

See Explanation
in Exhibit No.

6. **Adverse Findings.** Applicant certifies that, with respect to the applicant and any party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination.

☒ Yes ☐ No

See Explanation
in Exhibit No.

7. **Alien Ownership and Control.** Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.

☒ Yes ☐ No

See Explanation
in Exhibit No.

8. **Program Service Certification.** Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.

☒ Yes ☐ No

9. **Local Public Notice.** Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.

☒ Yes ☐ No

10. **Auction Authorization.** If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable.
- ☐ Yes ☐ No ☒ N/A
- Exhibit No.
- An exhibit is required unless this question is inapplicable.**
11. **Anti-Drug Abuse Act Certification.** Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.
- ☒ Yes ☐ No
12. **Equal Employment Opportunity (EEO).** If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.
- ☐ Yes ☐ No ☒ N/A
13. **Petition for Rulemaking/Counterproposal to Add New FM Channel to FM Table of Allotments.** If the application is being submitted concurrently with a Petition for Rulemaking or Counterproposal to Amend the FM Table of Allotments (47 C.F.R. Section 73.202) to add a new FM channel allotment, petitioner/counter-proponent certifies that, if the FM channel allotment requested is allotted, petitioner/counter-proponent will apply to participate in the auction of the channel allotment requested and specified in this application.
- ☐ Yes ☐ No ☒ N/A
14. **Tribal Priority - Threshold Qualifications.** Is the Applicant applying for an FM allotment set forth in a Public Notice announcing a Tribal Threshold Qualifications window? An Applicant answering "Yes" must provide an Exhibit demonstrating that it would have been qualified to add the allotment for which it is applying using the Tribal Priority.
- ☐ Yes ☐ No
- Exhibit No.

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing Anthony Didier	Typed or Printed Title of Person Signing Managing Member
Signature /s/	Date 1/9/2023

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name Charles M. Anderson	Relationship to Applicant (e.g., Consulting Engineer) Consultant	
Signature	Date 6/12/22	
Mailing Address 5900 Lake Cyrus Drive		
City Hoover	State or Country (if foreign address) Alabama	ZIP Code 35244
Telephone Number (include area code) 270-535-4432	E-Mail Address (if available) cmanderson43@yahoo.com	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III - A AM Engineering

TECHNICAL SPECIFICATIONS Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Frequency: 1430 kHz
2. Class: ☐ A ☐ B ☐ C ☒ D
3. Hours of Operation: ☐ Unlimited ☐ Limited ☒ Daytime ☐ Share Time ☐ Specified Hours: _____
4. Daytime Operation: ☒ Yes ☐ No
- a. Power: 19.0 kW
- b. Antenna Location Coordinates: (NAD 27)
- 36 ° 16 ' 14.9 " ☒ N ☐ S Latitude
- 86 ° 42 ' 53.4 " ☐ E ☒ W Longitude
- c. Nondirectional: ☒ Yes ☐ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.
E

Theoretical 282.83 mV/m per kW at 1 km

Tower	1
Overall height above ground (include obstruction lighting) (meters)	58.5
Antenna structure registration	<div style="text-align: center;">Number</div> <input type="checkbox"/> Notification filed with FAA <input checked="" type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)	57.9
Electrical height of radiator (degrees)	99.36
Top-Loaded/Sectionalized apparent height (degrees)	
A	
B	
C	
D	

TECH BOX - DAYTIME OPERATION

d. Directional:

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

☐ Yes ☒ No

Exhibit No.

Theoretical mV/m at 1 km

Standard RMS: mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	<div>Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable	<div>Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable	<div>Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable	<div>Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented:

☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: mV/m at 1 km

Azimuth Span Augmentation radiation (mV/m at 1 km)

TECH BOX - NIGHTTIME OPERATION

5. Nighttime Operation:

☒ Yes ☐ No

a. Power: 0.030 kW

b. Antenna Location Coordinates: (NAD 27)

36 ° 16 ' 14.9 " ☒ N ☐ S Latitude
86 ° 42 ' 53.4 " ☐ E ☒ W Longitude

c. Nondirectional:

☒ Yes ☐ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.
E

Theoretical 282.83 mV/m per kW at 1 km

Tower	1
Overall height above ground (include obstruction lighting) (meters)	58.5
Antenna structure registration	<div> <div>Number</div> <div> <input type="checkbox"/> Notification filed with FAA <input checked="" type="checkbox"/> Not applicable </div> </div>
Height of radiator above base insulator, or above base, if grounded (meters)	57.9
Electrical height of radiator (degrees)	99.36
Top-Loaded/Sectionalized apparent height (degrees)	
A	
B	
C	
D	

TECH BOX - NIGHTTIME OPERATION

d. Directional:

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

☐ Yes ☒ No

Exhibit No.

Theoretical mV/m at 1 km

Standard RMS: mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	<div>Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable	<div>Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable	<div>Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable	<div>Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented:

☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: mV/m at 1 km

Azimuth Span Augmentation radiation

TECH BOX - CRITICAL HOURS OPERATION

6. Critical Hours Operation:

☐ Yes ☒ No

a. Power: _____ kW

b. Antenna Location Coordinates: (NAD 27)

_____ ° _____ ' _____ " ☐ N ☐ S Latitude
 _____ ° _____ ' _____ " ☐ E ☐ W Longitude

c. Nondirectional:

☐ Yes ☐ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical _____ mV/m per kW at 1 km

Tower	
Overall height above ground (include obstruction lighting) (meters)	
Antenna structure registration	<div style="text-align: center;">_____ Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)	
Electrical height of radiator (degrees)	
Top-Loaded/Sectionalized apparent height (meters)	
A	
B	
C	
D	

TECH BOX - CRITICAL HOURS OPERATION

d. Directional:

if "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

☐ Yes ☒ No

Exhibit No.
NA

Theoretical _____ mV/m at 1 km

Standard RMS: _____ mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented:

☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: _____ mV/m at 1 km

Azimuth

Span

Augmentation radiation

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

7. **Broadcast Facility.** The proposed facility complies with the engineering standards and assignment requirements of 47 C.F.R. Sections 73.24(e), 73.24(g), 73.33, 73.45, 73.150, 73.152, 73.160, 73.182(a)-(i), 73.186, 73.189, 73.1650. **Exhibit Required.**
- ☒ Yes ☐ No See Explanation in Exhibit No.
Exhibit No. E Attached
8. **Community Coverage.** The proposed facility complies with community coverage requirements of 47 C.F.R. Section 73.24(i).
- ☒ Yes ☐ No See Explanation in Exhibit No.
9. **Main Studio Location.** The proposed main studio location complies with requirements of 47 C.F.R. Section 73.1125.
- ☒ Yes ☐ No See Explanation in Exhibit No.
10. **Interference.** The proposed facility complies with all of the following applicable rule sections. Check all those that apply. An exhibit is required for each applicable section.
- Groundwave.**
- a. ☒ 47 C.F.R. Section 73.37
- Skywave.**
- b. ☒ 47 C.F.R. Section 73.182.
- Critical Hours.**
- c. ☐ 47 C.F.R. Section 73.187.
- Exhibit No. E
- Exhibit No. E
- Exhibit No.
11. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radio frequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an **Exhibit is required.**
- ☒ Yes ☐ No See Explanation in Exhibit No. E
- By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radio frequency electromagnetic exposure in excess of FCC guidelines.
12. **Community of License Change - Section 307(b).** If the application is being submitted to change the facility's community of license, then the applicant certifies that it has attached an exhibit containing information demonstrating that the proposed community of license change constitutes a preferential arrangement of assignments under Section 307(b) of the Communications Act of 1934, as amended (47 U.S.C. Section 307(b)).
- ☐ Yes ☐ No ☒ N/A
- Exhibit No.
- An exhibit is required unless this question is not applicable.**
13. **Dispositive Section 307(b) Preference**
- a. Was the AM facility that is the subject of this application awarded on the basis of a dispositive Section 307(b) preference?
- ☐ Yes ☐ No
- b. If yes to 13(a), applicant certifies that: (i) the community of license proposed in the subject application is the same as that on which the Section 307(b) preference was based, or (ii) as shown in the attached Exhibit, the service area proposed in the subject application is substantially equivalent to the service area on which the Section 307(b) preference was based.
- ☐ Yes ☐ No ☐ N/A
- Exhibit No.
- c. If yes to 13(a) and no to 13(b), applicant certifies that, although in the subject application it proposes to: (i) change the community of license, or (ii) modify service to the area on which the Section 307(b) preference was based, it has for a period of four years of on-air operations: (1) served the community of license, or (2) provided full service to the area on which the Section 307(b) preference was based.
- ☐ Yes ☐ No
- Exhibit No.

Exhibit A
Multiple Ownership
WYGI(AM)
January 2023

The instant application requests minor modification of construction permit of Station WYGI(AM) (formerly WPLN(AM)), FCC Facility ID No. 21473, Madison, Tennessee (“*WPLN(AM)*”), licensed to Kensington Digital Media, L.L.C. For purposes of the FCC’s local radio ownership rule, WYGI(AM) is deemed to be a part of the Nashville, Tennessee radio market.

The attached exhibit, FCC Geographic Market Definition for Nashville, Tennessee, was compiled on January 5, 2023 using BIA Research, Inc.’s Media Access Pro database. The exhibit lists all radio stations, including WYGI(AM), that are licensed to communities within the counties comprising the Nashville, Tennessee Nielsen Audio Metro or that Nielsen Audio designates as “home” to the Nashville, Tennessee Audio Metro. As demonstrated in the exhibit, there are 65 stations in the Nashville, Tennessee market. Under the local radio ownership rule, a person or single entity (or entities under common control) in a radio market with 45 or more full-power, commercial and noncommercial radio stations may have a cognizable interest in not more than 8 commercial radio stations in total, and not more than 5 commercial stations in the same service (AM or FM). 47 C.F.R. § 73.3555(a)(1)(i).

As shown in the attached exhibit, Kensington Digital Media, owns two AM stations (WYGI(AM) and WHIN(AM)) and one FM station (WHPY(FM)) in the Nashville market. Upon completion of the proposed modification, there will be no change in ownership and Kensington Digital Media will remain in compliance with the limits prescribed by the rule.

FCC Geographic Market Definition for Nashville, TN

Call Letters	AM/ FM	Freq	Type Station	Format	Home Market	Market			City & State of License	County of License
						Designn Date	Home Mkt Rank	Owner		
WAKM	AM	950	C	Country	Nashville, TN	07/02/2003	41	Heritage Broadcast Associates	Franklin, TN	Williamson
WANT	FM	98.9	C	Cntry/Sprts	Nashville, TN	07/02/2003	41	James, Susan	Lebanon, TN	Wilson
WAYM	FM	88.7	NC	ChrsContem	Nashville, TN	08/17/2007	41	Hope Media Group	Spring Hill, TN	Williamson
WBOZ	FM	104.9	C	ChrsContem	Nashville, TN	07/02/2003	41	Salem Media Group Inc	Woodbury, TN	Cannon
WBRY	AM	1540	C	Nws/Spt/Cty	Nashville, TN	06/19/2014	41	Volunteer Broadcasting LLC	Woodbury, TN	Cannon
WBUZ	FM	102.9	C	Rock	Nashville, TN	07/02/2003	41	Cromwell Group Inc, The	La Vergne, TN	Rutherford
WCJK	FM	96.3	C	Adult Hits	Nashville, TN	07/02/2003	41	Midwest Communications Incorporated	Murfreesboro, TN	Rutherford
WCOR	AM	1490	C	Cntry/Sprts	Nashville, TN	07/02/2003	41	James, Susan	Lebanon, TN	Wilson
WCRT	AM	1160	C	Chrst/Talk	Nashville, TN	11/17/2005	41	Bott Radio Network	Donelson, TN	Davidson
WDBL	AM	1590	C	Span/Relgn	Nashville, TN	07/02/2003	41	Eben-Ezer Broadcast ing Corporation	Springfield, TN	Robertson
WDKN	AM	1260	C	Country	Nashville, TN	07/02/2003	41	R & F Communications Inc	Dickson, TN	Dickson
WECV	FM	89.1	NC	Chrst/Talk	Nashville, TN	07/02/2003	41	Bott Radio Network	Nashville, TN	Davidson
WENO	AM	760	C	Gospel	Nashville, TN	07/02/2003	41	Broady Media Group LLC	Nashville, TN	Davidson
WFCM	FM	91.7	NC	Religion	Nashville, TN	07/02/2003	41	Moody Bible Institute of Chicago Incorporated	Murfreesboro, TN	Rutherford
WFCN	AM	1200	NC	Religion	Nashville, TN	07/02/2003	41	Moody Bible Institute of Chicago Incorporated	Nashville, TN	Davidson
WFFH	FM	94.1	C	ChrsContem	Nashville, TN	07/02/2003	41	Salem Media Group Inc	Smyrna, TN	Rutherford
WFFI	FM	93.7	C	ChrsContem	Nashville, TN	07/02/2003	41	Salem Media Group Inc	Kingston Springs, TN	Cheatam
WFMQ	FM	91.5	NC	Chrs/Talk	Nashville, TN	07/02/2003	41	Bott Radio Network	Lebanon, TN	Wilson
WFSK	FM	88.1	NC	NAC/SmJaz	Nashville, TN	07/02/2003	41	Fisk University	Nashville, TN	Davidson
WGFX	FM	104.5	C	Sprts/Talk	Nashville, TN	07/02/2003	41	Cumulus Media Holdings Inc	Gallatin, TN	Sumner
WGNS	AM	1450	C	Talk	Nashville, TN	07/02/2003	41	Rutherford Group Inc	Murfreesboro, TN	Rutherford
WHEW	AM	1380	C	Span/Varty	Nashville, TN	07/02/2003	41	Guzman, Salvador	Franklin, TN	Williamson
WHIN	AM	1010	C	Adult Hits	Nashville, TN	07/02/2003	41	Kensington Digital Media LLC	Gallatin, TN	Sumner
WHPY	FM	94.5	C	Oldies	Nashville, TN	07/02/2003	41	Kensington Digital Media LLC	Bellevue, TN	Davidson
WJXA	FM	92.9	C	AC	Nashville, TN	07/02/2003	41	Midwest Communications Incorporated	Nashville, TN	Davidson
WKDA	AM	900	C	Span/Chrst	Nashville, TN	07/02/2003	41	James, Susan	Lebanon, TN	Wilson
WKDF	FM	103.3	C	Country	Nashville, TN	07/02/2003	41	Cumulus Media Holdings Inc	Nashville, TN	Davidson
WLAC	AM	1510	C	News/Talk	Nashville, TN	07/02/2003	41	iHeartMedia Inc	Nashville, TN	Davidson
WLFN	FM	105.1	C	Adult Hits	Nashville, TN	07/02/2003	41	Consolidated Media LLC	Waverly, TN	Humphreys
WLVU	FM	97.1	NC	ChrsContem	Nashville, TN	07/02/2003	41	Educational Media Foundation	Belle Meade, TN	Davidson
WMDB	AM	880	C	Ranchera	Nashville, TN	07/02/2003	41	TBLC Media LLC	Nashville, TN	Davidson
WMGC	AM	810	C	Mexican	Nashville, TN	07/02/2003	41	Radio 810 Nashville Limited	Murfreesboro, TN	Rutherford
WMOT	FM	89.5	NC	Amerc/News	Nashville, TN	07/02/2003	41	Middle Tennessee State University	Murfreesboro, TN	Rutherford
WMTS	FM	88.3	NC	Variety	Nashville, TN	07/02/2003	41	Middle Tennessee State University	Murfreesboro, TN	Rutherford

"C" - Commercial Station; "NC" - Non Commercial Station

"p" indicates pending sale to owner listed

FCC Geographic Market Definition for Nashville, TN

Call Letters	AM/FM	Type	Freq	Station	Format	Home Market	Market			City & State of License	County of License
							Designn Date	Home Mkt Rank	Owner		
WNAH	AM	C	1360	C	Chrst/Talk	Nashville, TN	07/02/2003	41	Carter Jr, Hoyt M	Nashville, TN	Davidson
WNNF	FM	C	106.7	C	CHR	Nashville, TN	07/02/2003	41	Midwest Communications Incorporated	Franklin, TN	Williamson
WNCM	AM	C	1300	C	Chrst/Talk	Nashville, TN	07/02/2003	41	F.W. Robbert Broadcasting	Nashville, TN	Davidson
WNRQ	FM	C	105.9	C	Clsc Rock	Nashville, TN	07/02/2003	41	iHeartMedia Inc	Nashville, TN	Davidson
WNRZ	FM	NC	91.5	NC	Chrst/Talk	Nashville, TN	07/02/2003	41	Bott Radio Network	Dickson, TN	Dickson
WNSR	AM	C	560	C	Talk/Sprts	Nashville, TN	07/02/2003	41	Southern Wabash Communications Corporation	Brentwood, TN	Williamson
WNTC	AM	C	790	C	Clsc Hits	Nashville, TN	07/02/2003	41	Southern Wabash Communications Corporation	Ashland City, TN	Cheatham
WNVL	AM	C	1240	C	Spanish AC	Nashville, TN	07/02/2003	41	TBLC Media LLC	Nashville, TN	Davidson
WNPX	FM	NC	91.1	NC	Alt/Pop/Urb	Nashville, TN	07/02/2003	41	Nashville Public Radio	Nashville, TN	Davidson
WPDQ	FM	NC	91.3	NC	Variety	Nashville, TN	04/21/2014	41	Southern Wabash Communications Corporation	Scottsville, KY	Sumner
WPLN	AM	NC	1430	NC	News/Talk	Nashville, TN	07/02/2003	41	p Kensington Digital Media LLC	Madison, TN	Davidson
WPLN	FM	NC	90.3	NC	Nws/Tlk/Inf	Nashville, TN	07/02/2003	41	Nashville Public Radio	Nashville, TN	Davidson
WPRT	FM	C	102.5	C	Sports	Nashville, TN	07/02/2003	41	Cromwell Group Inc, The	Pegram, TN	Cheatham
WQKR	AM	C	1270	C	Oldies	Nashville, TN	07/02/2003	41	Venture Broadcasting LLC	Portland, TN	Sumner
WQQK	FM	C	92.1	C	UrbAC/R&B	Nashville, TN	07/02/2003	41	Cumulus Media Holdings Inc	Goodlettsville, TN	Davidson
WQZQ	AM	C	830	C	Clsc Hits	Nashville, TN	07/02/2003	41	Cromwell Group Inc, The	Goodlettsville, TN	Davidson
WRLT	FM	C	100.1	C	AAA	Nashville, TN	07/02/2003	41	Tuned In Broadcasting Inc	Franklin, TN	Williamson
WRSN	FM	NC	88.1	NC	Religion	Nashville, TN	08/09/2011	41	Risen Radio Inc	Lebanon, TN	Wilson
WRVW	FM	C	107.5	C	CHR	Nashville, TN	07/02/2003	41	iHeartMedia Inc	Lebanon, TN	Wilson
WSGI	AM	C	1100	C	Variety	Nashville, TN	07/02/2003	41	Eben-Ezer Broadcast ing Corporation	Springfield, TN	Robertson
WSIX	FM	C	97.9	C	Country	Nashville, TN	07/02/2003	41	iHeartMedia Inc	Nashville, TN	Davidson
WSM	AM	C	650	C	Country	Nashville, TN	07/02/2003	41	Ryman Hospitality Properties Inc	Nashville, TN	Davidson
WSM	FM	C	95.5	C	Country	Nashville, TN	07/02/2003	41	Cumulus Media Holdings Inc	Nashville, TN	Davidson
WUBT	FM	C	101.1	C	HpHop/Rhy	Nashville, TN	07/02/2003	41	iHeartMedia Inc	Russellville, KY	Logan
WVCP	FM	NC	88.5	NC	Oldes/Rock	Nashville, TN	07/02/2003	41	Volunteer State Community College	Gallatin, TN	Sumner
WVOL	AM	C	1470	C	R&B Oldies	Nashville, TN	07/02/2003	41	Heidelberg Broadcasting LLC	Berry Hill, TN	Davidson
WWTN	FM	C	99.7	C	Talk	Nashville, TN	07/02/2003	41	Cumulus Media Holdings Inc	Hendersonville, TN	Sumner
WYCZ	AM	C	1030	C	Eclectic	Nashville, TN	07/02/2003	41	Young Country Holdings LLC	White Bluff, TN	Dickson
WYFN	AM	NC	980	NC	Christian	Nashville, TN	07/02/2003	41	Bible Broadcasting Network Inc	Nashville, TN	Davidson
WYJV	AM	NC	710	NC	Span/Relgn	Nashville, TN	07/02/2003	41	p Iglesia Misionera Jesucristo Viene Pronto Inc	Smyrna, TN	Rutherford
WYXE	AM	C	1130	C	Span/Chrst	Nashville, TN	07/02/2003	41	Iglesia de Dios Hispana Pentecostal, Nashville TN	Gallatin, TN	Sumner

Number of Stations in Geographic Market 65

Previous Stations in Geographic Market

"C" - Commercial Station; "NC" - Non Commercial Station

"p" indicates pending sale to owner listed

FORM 301 EXHIBIT E

Minor Modifications

WPLN
1430 kHz 19 kW-Day/ 0.030 kW Night
Madison, TN

This technical report is provided in support of minor modifications to WPLN(AM) (1430 kHz) whereby it moves to a replacement tower for the southern most tower of the existing WPLN four tower array within the existing site at 19 kW Day and 0.030 kW Night non-directional. WPLN will be combined with collocated WQZQ on 830 kHz at 3.0 kW Day. The existing four towers will be dismantled. Appropriate combining and filtering networks will be installed to assure compliance with the Commission's spurious emissions requirements.

Site	N 36-16-14.9 W 86-42-53.4 (NAD 27)
Day Power	19.0 kW ND - 282.83 mV/m/km RMS
Night power	0.030 kW ND - 282.83 mV/m/km RMS
Tower	58.5 m AGL - 57.9 m radiator - 99.36° at 1430 kHz

A vertical sketch is provided as E13A, a site plat as E13B, a site topographic map as E13C and an aerial photograph as E13E with an overlay of the day 1000 mV/m contour. A waiver of 73.24(g) is requested based on the fact that the 1,000 mV/m population as a percentage of the 25 mV/m population does not change (2.2%). Furthermore, the increase of 176 population within the 1,000 mV/m is only 0.05% of the 25 mV/m population and is *deminimis*. Similar waivers have been routinely granted.

Continued 5 mV/m day coverage of Madison, TN is demonstrated by exhibit E14A. No night showing for a class D station with secondary night operation is required.

Anderson Associates

Broadcast Engineering Consultants

Exhibits:

E13A	Vertical sketch
E13B	Site plat
E13C	Site topographic map
E13D	25 mV/m and 1000 mV/m day contours
E13E	Aerial photographic view of day 1000 mV/m contour
E13F	Antenna efficiency
E13G	TowerAir determination (registration not required)
E14A	Day 5 mV/m
E17A	M-3 allocation plot
E17A1	Detailed M3 study
E17B	Day contours
E17C	Day allocation listing
E17D	Summary of measured ground conductivities and conductivity graphs
E18A	Night interference analysis
E18B	Night RSS calculation

Day allocation analysis:

All analyses were conducted using V-Soft's AMRPO 2 software. An M3 allocations map is provided as E17A and detailed overlap analysis to WKSJ on 1420 kHz as E17A1. It is evident from these exhibits that the proposed facility does not cause or receive any overlap.

Measured ground conductivities from the most recent WPLN application (BMP-20010828AAV) and WQZQ (BMJP-20051024AAC) and WQZQ measurements from WUMY application (BP-20160303AAW) are included as exhibit E17D and are utilized in the day allocations analysis. These measured conductivities were accepted for the grants of WPLN, WQZQ and WUMY's most recent applications. Detailed tabulations and certifications are contained in those files and included herein by reference. The analyzed conductivity graphs are included in E17D.

Night Allocation Analysis:

A night operating power of 0.030 kW is proposed. Again, AMPRO 2 was utilized to establish the required clearances as demonstrated in exhibit E18A.

Anderson Associates

Broadcast Engineering Consultants

RF analysis:

The RF contributions of the two proposed facilities at the site were analyzed at a distance of five (5) meters from the tower and a secure fence will be erected at that distance. Values were determined from OET65A figures 1,2 and 3 and interpolated for the WPLN and WQZQ tower heights and then adjusted by the square root of the proposed power.

Station	Frequency	λ	V/m	% Maximum	A/m	% Maximum
WPLN	1430 kHz	0.276	73.7	12.0	0.64	39.26
WQZQ	830 kHz	0.165	399.6	65.08	0.65	39.9
			473.3	77.08%	1.29	79.16%

Maximum values are 614 V/m and 1.63 A/m (OET65, Table 1).

Clearly, the proposed combined operation meets the maximum permissible values at the proposed five (5) meter fence and is compliant.

The WPLN tower, which will be shared by WQZQ, is a replacement for the southern most night tower and meets the Commission's requirements for a replacement tower. It does not require FAA approval as demonstrated in the TowerAir exhibit E13G.

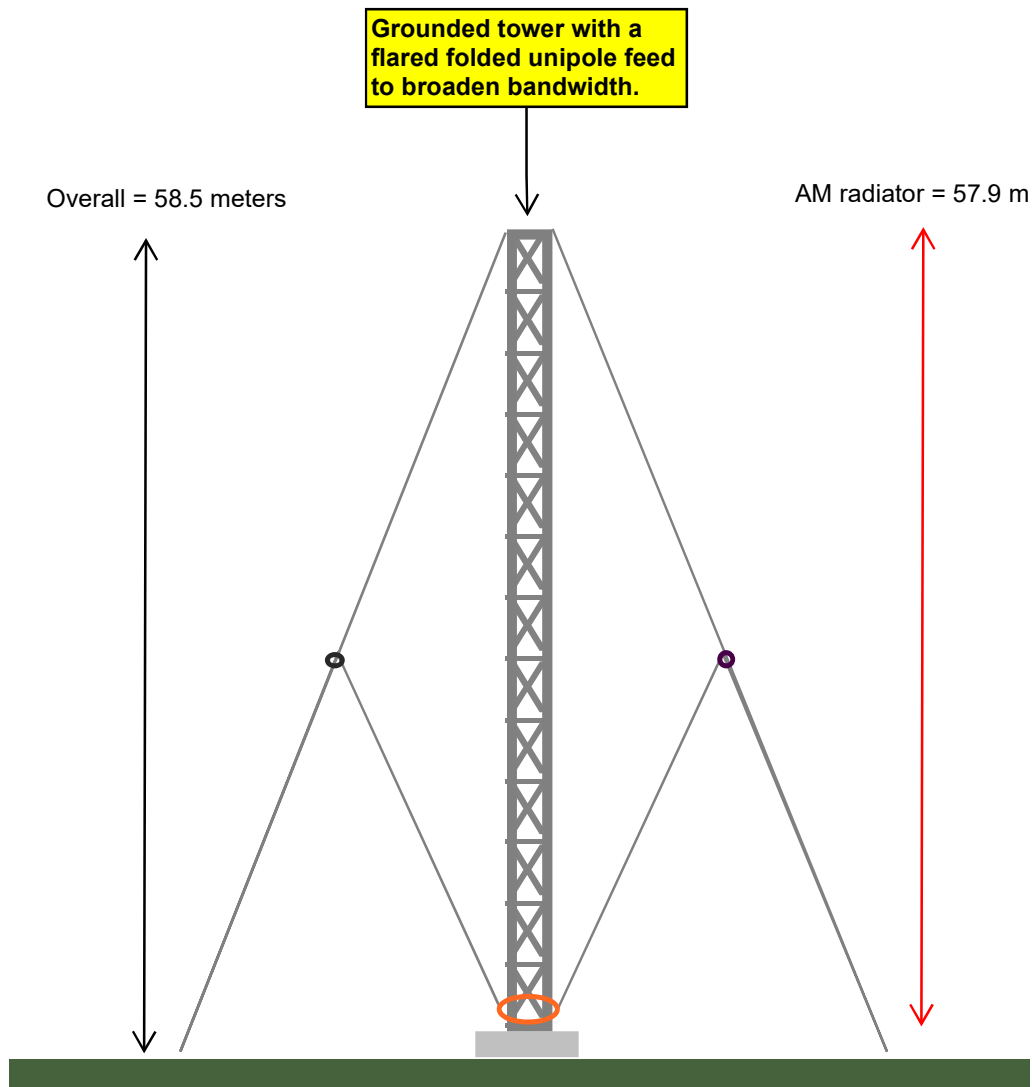
Conclusion:

It is concluded that the proposed WPLN facility complies with FCC rules and allocation and policies.



Charles M. Anderson 6-12-2022
270-535-4432
cmanderson43@yahoo.com

E13A VERTICAL SKETCH



Replacement tower for southern most WPLN array tower within the existing WPLN site with a new 31.5 meter, 120 radial buried copper ground system. At 1430 kHz, the efficiency is calculated to be 282.83 mV/m/kW/km for 1 kW.

E13B SITE PLAT

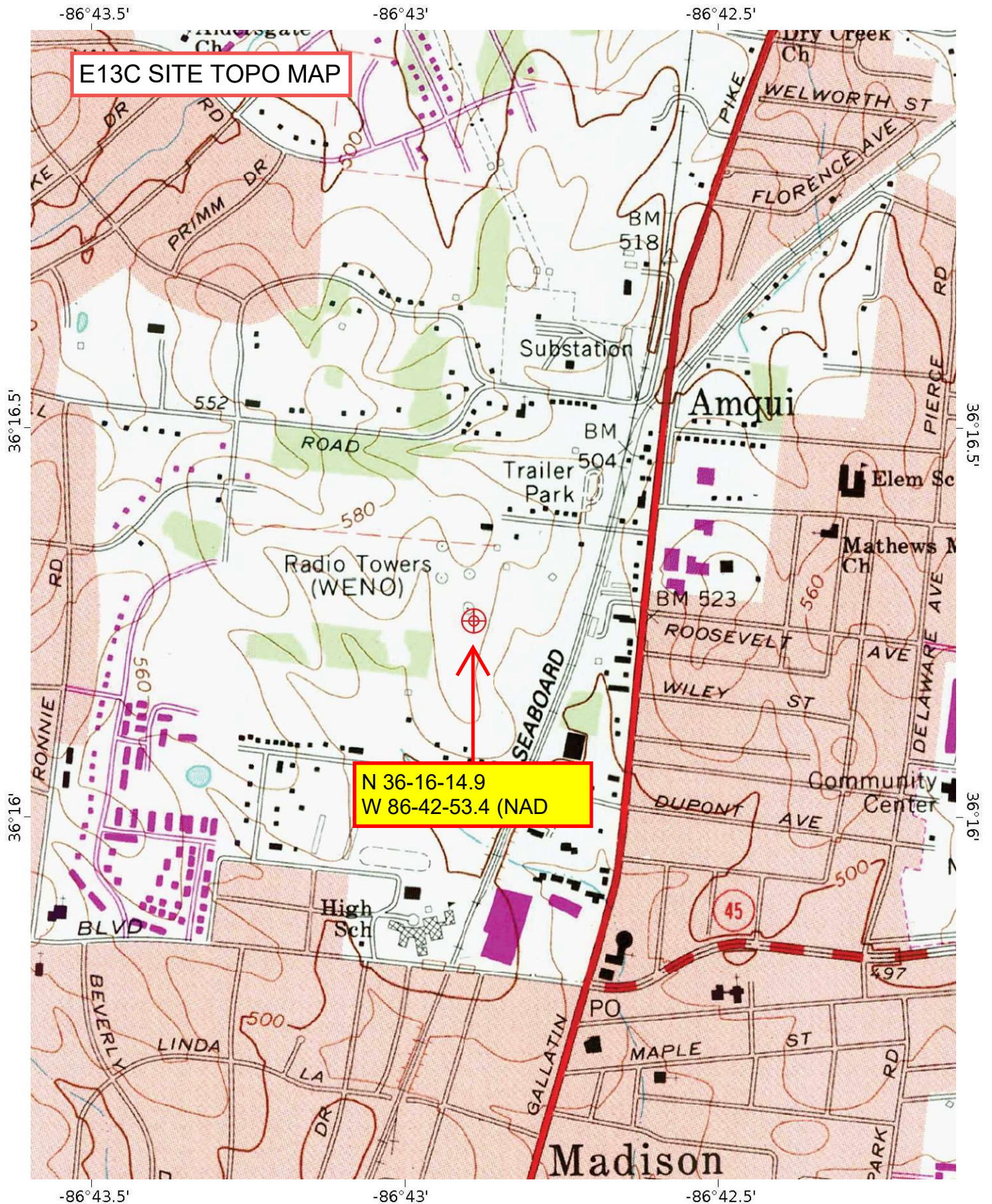
Existing WPLN site boundary.

Approximate site boundary within existing WPLN 4 tower array-transmitter site. Ground system of 120 buried copper radials averaging 31.5 meters.



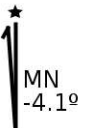
200 ft

E13C SITE TOPO MAP



N 36-16-14.9
W 86-42-53.4 (NAD)

Mercator Projection
NAD27 Conus
UTM Zone 16S



E13D 1000-25 mV/m Contours

WPLN

Freq: 1430 kHz

Class: B

Latitude: 36-16-14.90 N

Longitude: 086-42-53.40 W

Power: 19 kW

RMS: 311.762 mV/m @1km

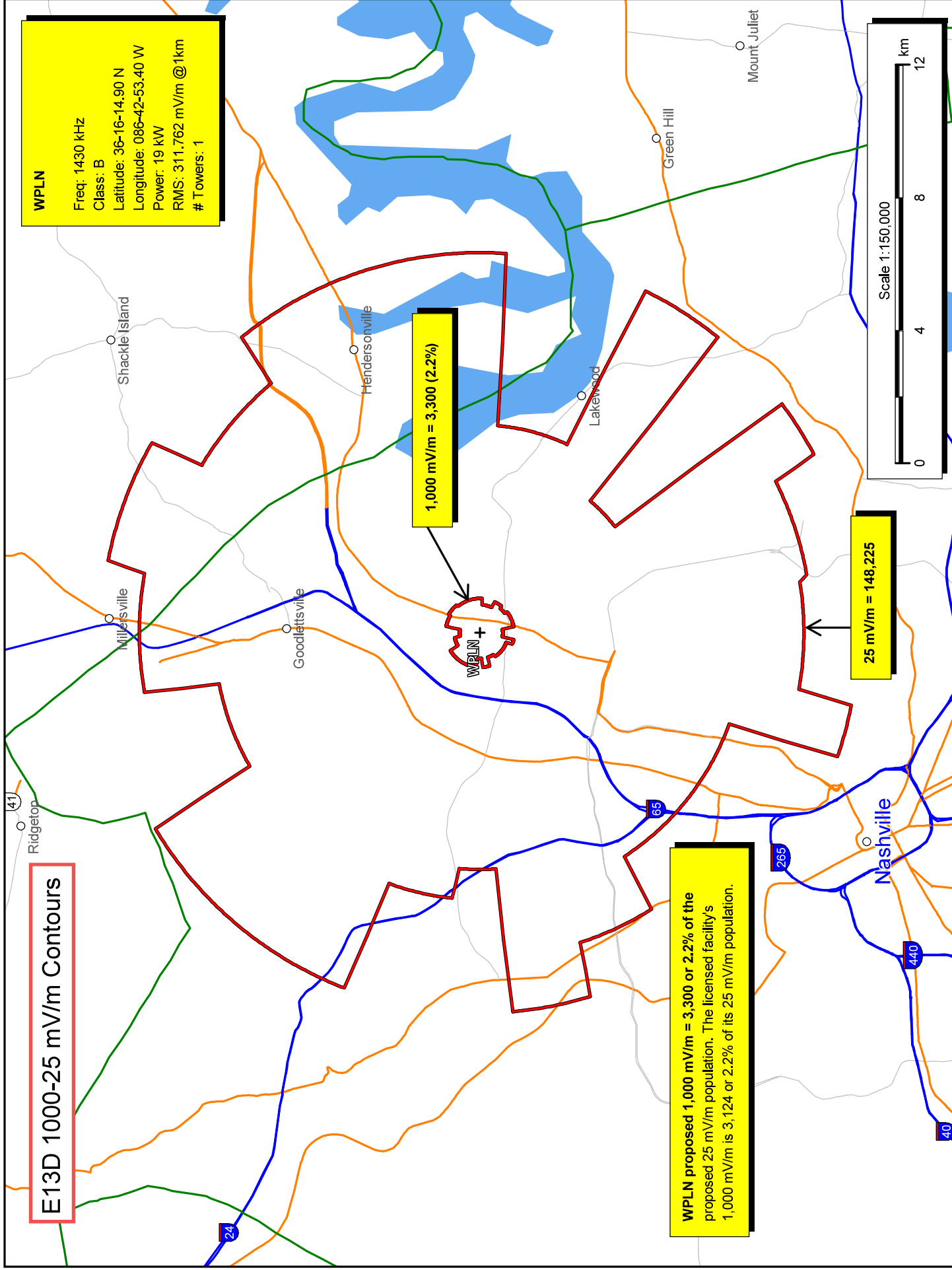
Towers: 1

1,000 mV/m = 3,300 (2.2%)

25 mV/m = 148,225

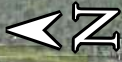
WPLN proposed 1,000 mV/m = 3,300 or 2.2% of the proposed 25 mV/m population. The licensed facility's 1,000 mV/m is 3,124 or 2.2% of its 25 mV/m population.

Scale 1:150,000



E13E AERIAL VIEW 1,000 mV/m DAY

1,000 mV/m Day



4000 ft

Google Earth



E13F FIGURE 8 calculates the Inverse Distance Field for AM broadcast stations with frequencies between **530** and **1700 kHz**. This calculator is a computer version of Figure 8 of Section 73.190 of the FCC Rules. The Inverse Distance Fields calculated here are in **mV/m at 1 kilometer**.

[Ground system correction factors](#) may be incorporated into the following results.

Input Parameters	
Frequency:	1430 kHz
Number of Ground Radials:	120
Correction for number of radials:	0.0000 mV/m @ 1 kilometer
Average Length of Ground Radials:	31.500 meters 103.346 feet 54.091 degrees 0.1503 wavelengths
Correction factor for length:	-28.9682 mV/m @ 1 kilometer
One Wavelength at 1430 kHz is:	209.645 meters 687.812 feet
Tower Height:	57.900 meters 189.961 feet 99.43 degrees 0.2762 wavelengths

Predicted Field Strength from Figure 8, Section 73.190

(Metric units)			
	Theoretical Field	Corrected Field	
At 1.00 kW :	311.797	282.829	mV/m @ 1 KM
At 19.000 kW :	1359.092	1232.823	mV/m @ 1 KM

E13G TOWAIR Determination Results

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.

Your Specifications

NAD83 Coordinates

Latitude	36-16-15.1 north
Longitude	086-42-53.4 west

Measurements (Meters)

Overall Structure Height (AGL)	58.5
Support Structure Height (AGL)	0
Site Elevation (AMSL)	167.6

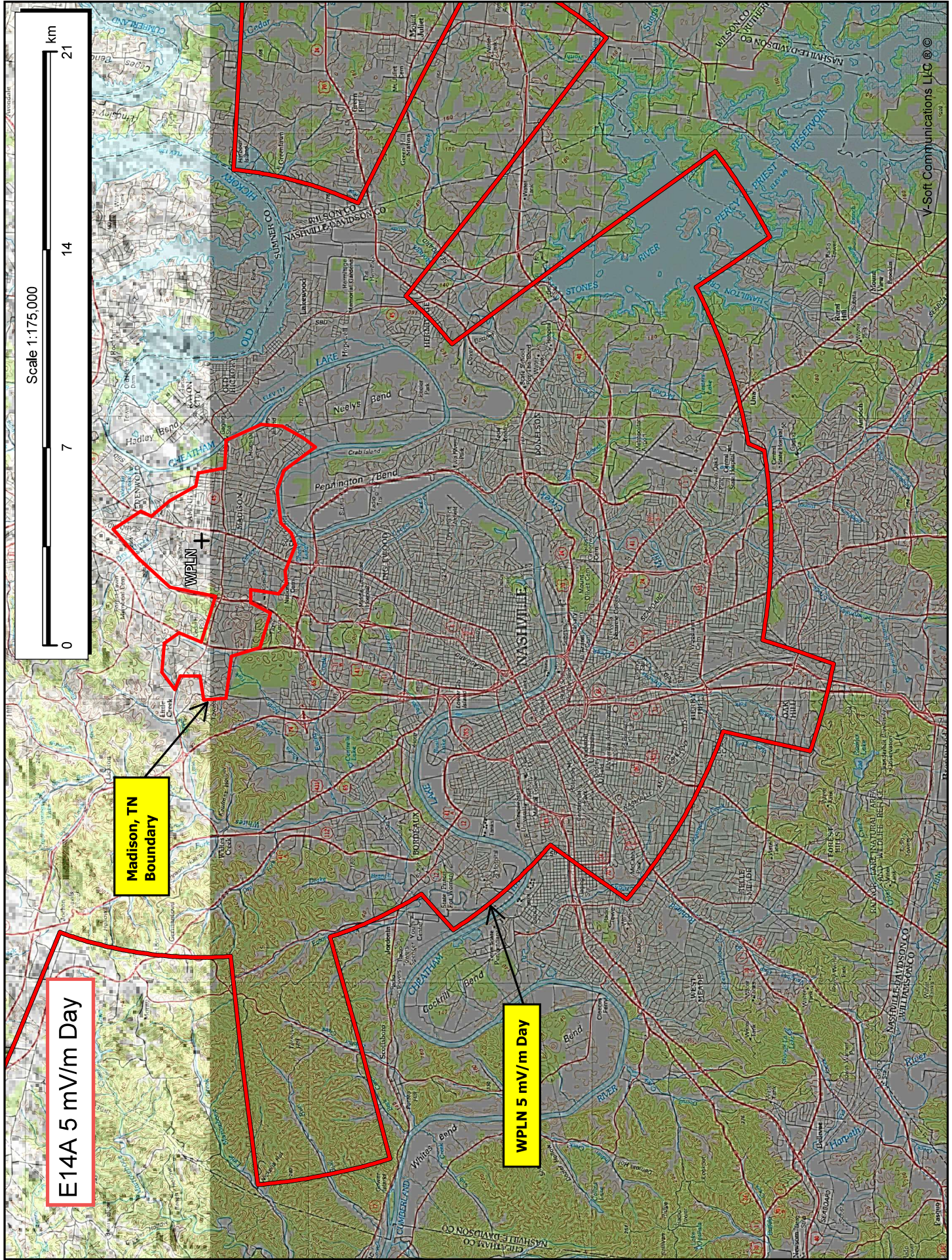
Structure Type

GTOWER - Guyed Structure Used for Communication Purposes

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.





Scale 1:175,000



E14A 5 mV/m Day

Madison, TN
Boundary

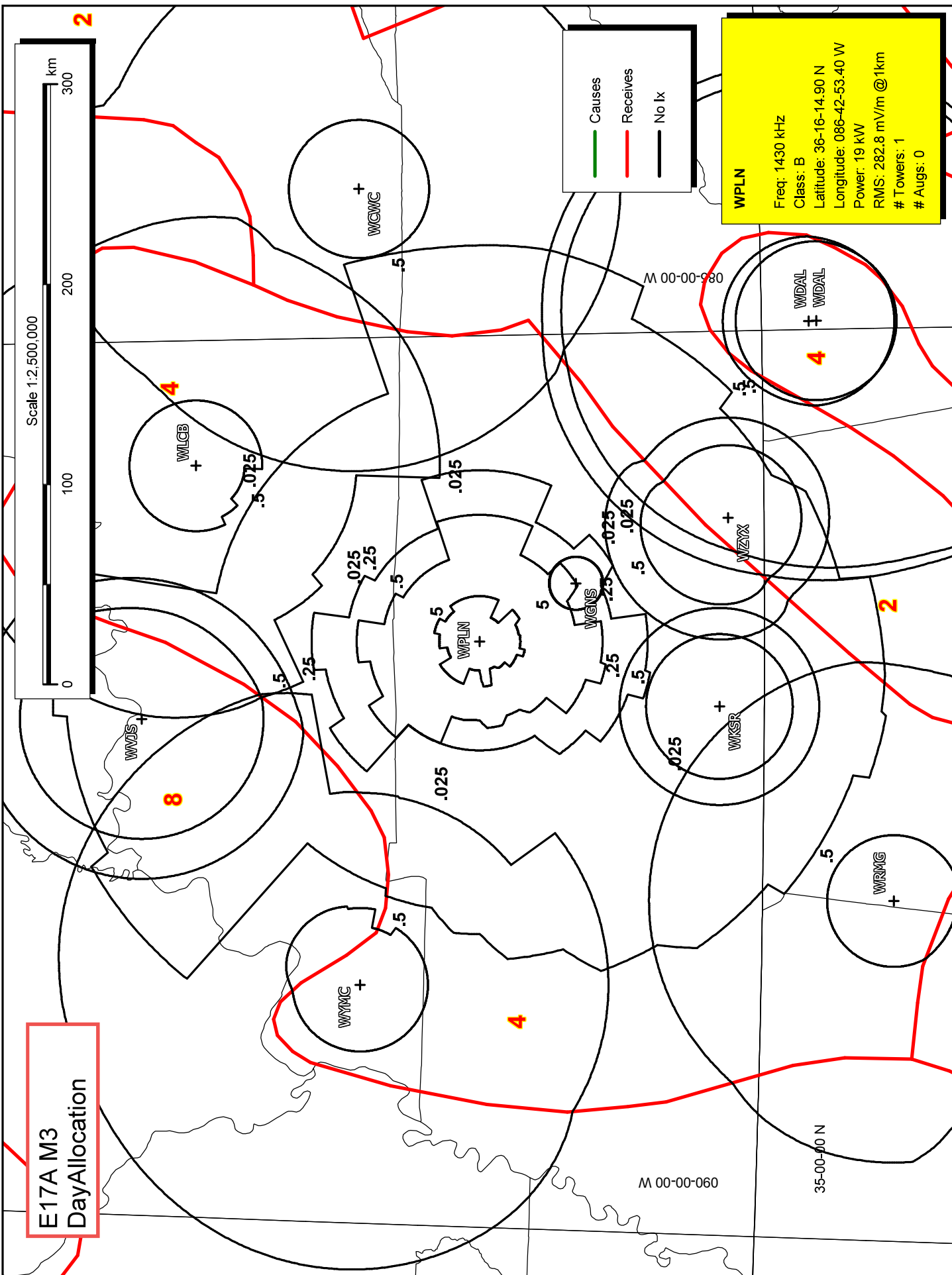
WPLN

WPLN 5 mV/m Day

E17A M3

DayAllocation

Scale 1:2,500,000



E17A1 WPLN-WKSR Detail

M 00-00-880

M 00-00-280

M 00-00-980

M 00-00-580

37-00-00 N

36-00-00 N

WPLN

Freq: 1430 kHz

Class: B

Latitude: 36-16-14.90 N

Longitude: 086-42-53.40 W

Power: 19 kW

RMS: 282.8 mV/m @ 1km

Towers: 1

WKSR

Freq: 1420 kHz

Class: D

Latitude: 35-12-01 N

Longitude: 087-04-30 W

Power: 1 kW

RMS: 304.58 mV/m @ 1km

Towers: 1

WPLN +

+
WKSR

Causes

Receives

No Ix

Scale 1:1,500,000



E17B Day Contours

WPLN

Freq: 1430 kHz

Class: B

Latitude: 36-16-14.90 N

Longitude: 086-42-53.40 W

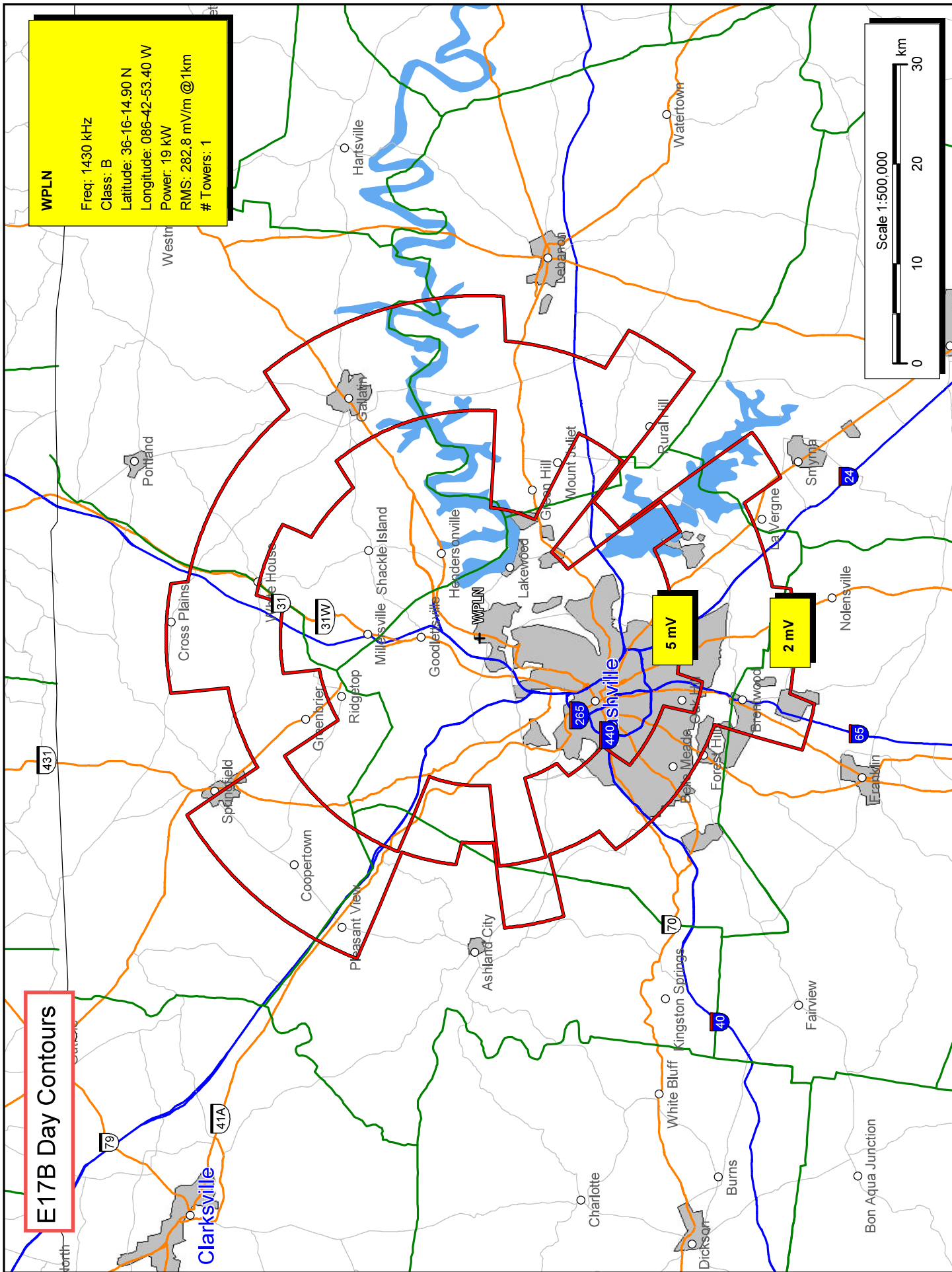
Power: 19 kW

RMS: 282.8 mV/m @1km

Towers: 1

Scale 1:500,000

0 10 20 30 km



E17B DAY ALLOCATION FACTORS

WPLN, 1430 kHz Location: 36-16-14.90 N, 086-42-53.40 W

*** 1400 kHz (-3) ***

62.5 km WNZE L 36-32-31 N 087-19-32 W 0.38 kW ND2 - 391.1 mV/m@1km
38.8 mi Azi: 298.6 Class: C Sched: U File #: BL20210309AAE
Location: CLARKSVILLE, TN, US

*** 1420 kHz (-1) ***

123.2 km WKSR L 35-12-01 N 087-04-30 W 1.0 kW ND2 - 304.6 mV/m@1km
76.5 mi Azi: 195.2 Class: D Sched: U File #: BL20201130AAL
Location: PULASKI, TN, US
171.5 km WVJS L 37-46-30 N 087-09-32 W 0.98 kW ND2 - 424.5 mV/m@1km
106.6 mi Azi: 346.5 Class: D Sched: U File #: BL20120608ADC
Location: OWENSBORO, KY, US

*** 1430 kHz (CO) ***

165.8 km WLCB L 37-31-49 N 085-42-49 W 1.0 kW ND1 - 281.6 mV/m@1km
103.0 mi Azi: 32.9 Class: D Sched: U File #: BL19871127AD
Location: BUFFALO, KY, US
182.9 km WYMC L 36-47-12 N 088-39-16 W 1.0 kW DAN - 294.5 mV/m@1km
113.6 mi Azi: 287.7 Class: B Sched: U File #: BL19791120AC
Location: MAYFIELD, KY, US
229.2 km WDAL L 34-47-23 N 084-57-12 W 2.5 kW ND2 - 317.0 mV/m@1km
142.4 mi Azi: 136.3 Class: D Sched: U File #: BL20031014AQN
Location: DALTON, GA, US
232.0 km WDAL C 34-45-22 N 084-57-03.70 W 2.1 kW ND2 - 299.6 mV/m@1km
144.2 mi Azi: 136.9 Class: D Sched: U File #: BP20210721AAA
Location: DALTON, GA, US

*** 1440 kHz (+1) ***

137.8 km WZYX L 35-09-39 N 086-01-51 W 5.0 kW ND1 - 305.8 mV/m@1km
85.6 mi Azi: 153.5 Class: D Sched: U File #: BL19810203AG
Location: COWAN, TN, US

*** 1450 kHz (+2) ***

56.0 km WGNS L 35-50-26 N 086-23-27 W 1.0 kW ND1 - 375.0 mV/m@1km
34.8 mi Azi: 148.6 Class: C Sched: U File #: BL8685
Location: MURFREESBORO, TN, US

*** 1460 kHz (+3) ***

69.9 km WEEN L 36-32-06 N 086-00-27 W 1.1 kW ND2 - 330.4 mV/m@1km
43.4 mi Azi: 65.4 Class: D Sched: U File #: BL20130904ACQ
Location: LAFAYETTE, TN, US

EXHIBIT E17D

SUMMARY OF MEASURED CONDUCTIVITIES AND SOURCE

For WPLN:

0° (WQZQ Proof-BMJP-20051024AAL) - .5 to 0.74, 1 to 1.5, 1.5 to 2.72, 3 to 5.4, 4 to 10.25, 3 to 17.42

20° (BMP-20010828AAV - on WLAC) - 4 to 29.8 (MS), 2 to 107.8, 0.1 to 135.2

40° (same) - 5 to 1.93, 4 to 8.5, 3 to 41.8, 1.5 to 119.9, 0.1 to 151.3

60° (same) - 4 to 41.8 (M3), 1.5 to 114.3, 0.1 to 141.6

125° (WPLN from BMP-20010828AAV) - 1.5 to 1.45, 4 to 11.3, 3 to 75.6, 2 to 138.4

145° (same) - 4 to 53.9 (M3), 3 to 80, 2 to 130.4

160°(from BMJP-20051024AAL -WPLN) - 4 to 10 (M3), 3 to 30.85, 2 to 63.2

180°(from BMJ-20051024AAL-WQZQ Proof) - .5 to 1.1, 1 to 1.7, 2 to 5.2, 1.5 to 6, 3 to 16

210°(from WUMY application BP-20160303AAW on WQZQ) - 2 to 12.3, 3 to 22.7, 2 to 32.8, 3 to 58.1

230°(same) - 2 to 26.9, 1.5 to 47.6, 2 to 52.4

245°(WPLN from BMJP-20051024AAL) - 1.5 to 3, 3 to 12.1, 1.5 to 38.6, 1 to 59.15, 1.5 to 68.7

260°(same) - 4 to 29 (M3), 1.5 to 44.8, 2 to 54.4, 1 to 88.9

270°(WQZQ from BP-20160303AAW) - 1.5 to 18.9, 1 to 70.5, .1 to 90

280°(WLAC from BMP-20010828AAV) - 3 to 4.18, 2 to 11.91, 1.5 to 40.23, 1 to 117.48, 0.5 to 154.5

300° (same)-4 to 54.7 (M3), 1 to 120.7, 0.1 to 162.5

340° (WPLN from BMJP-20051024AAL) - 1.5 to 1.56, 1.0 to 3.56, 2 to 23,1

E17D Continued

For WYMC (from BMP-20010828AAV)

90° (From BMP-20010828AAV) - 4 to 20.3 (M3), 8 to 38.6, 3 to 80, 2 to 93.3

110° (same) - 4 to 20.8, 3 to 67.3, 2 to 96.2

130° (same) - 4 to 37 (M3), 2 to 98.2

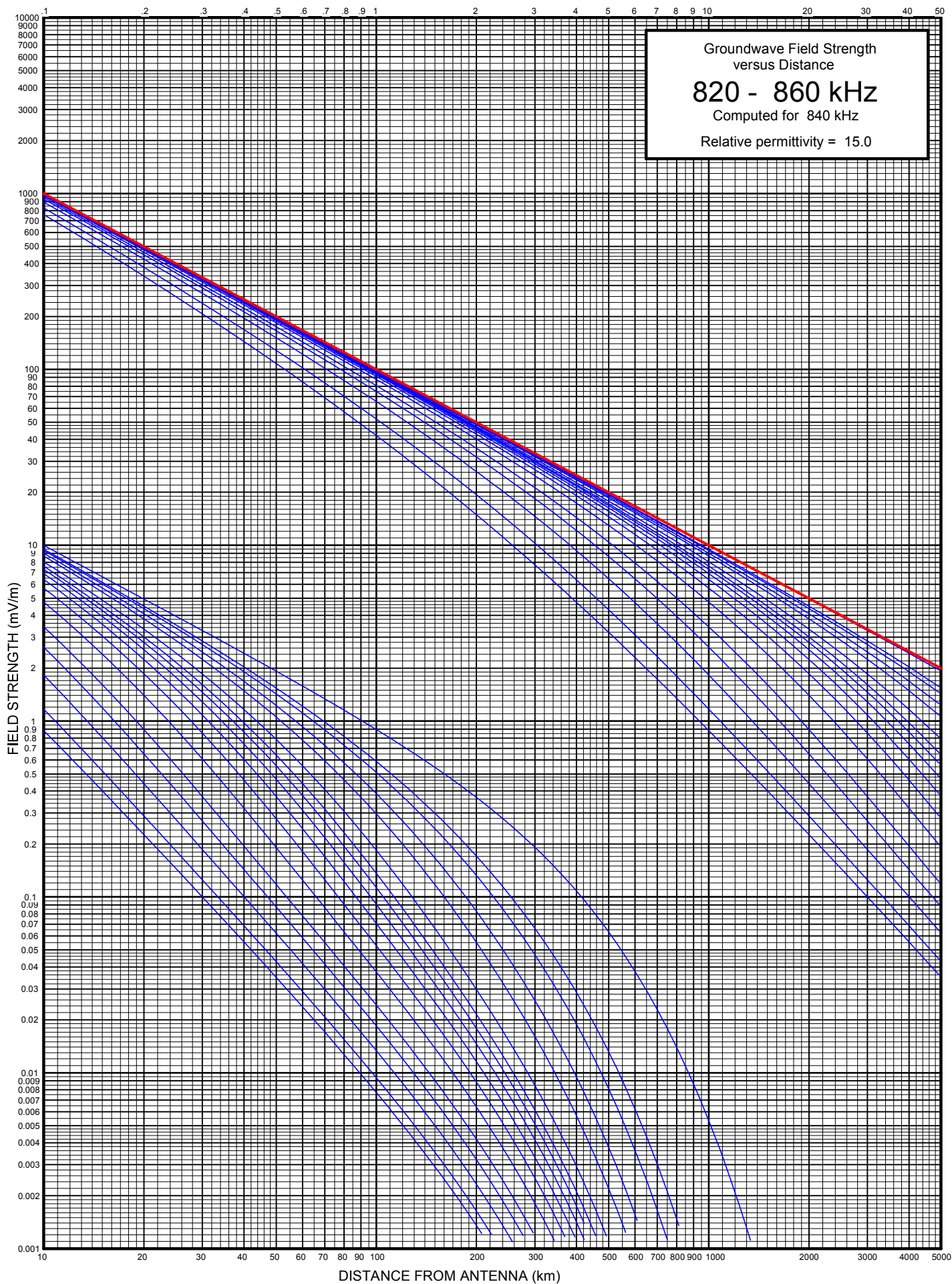
For WLCB (from BMP-20010828AAV)

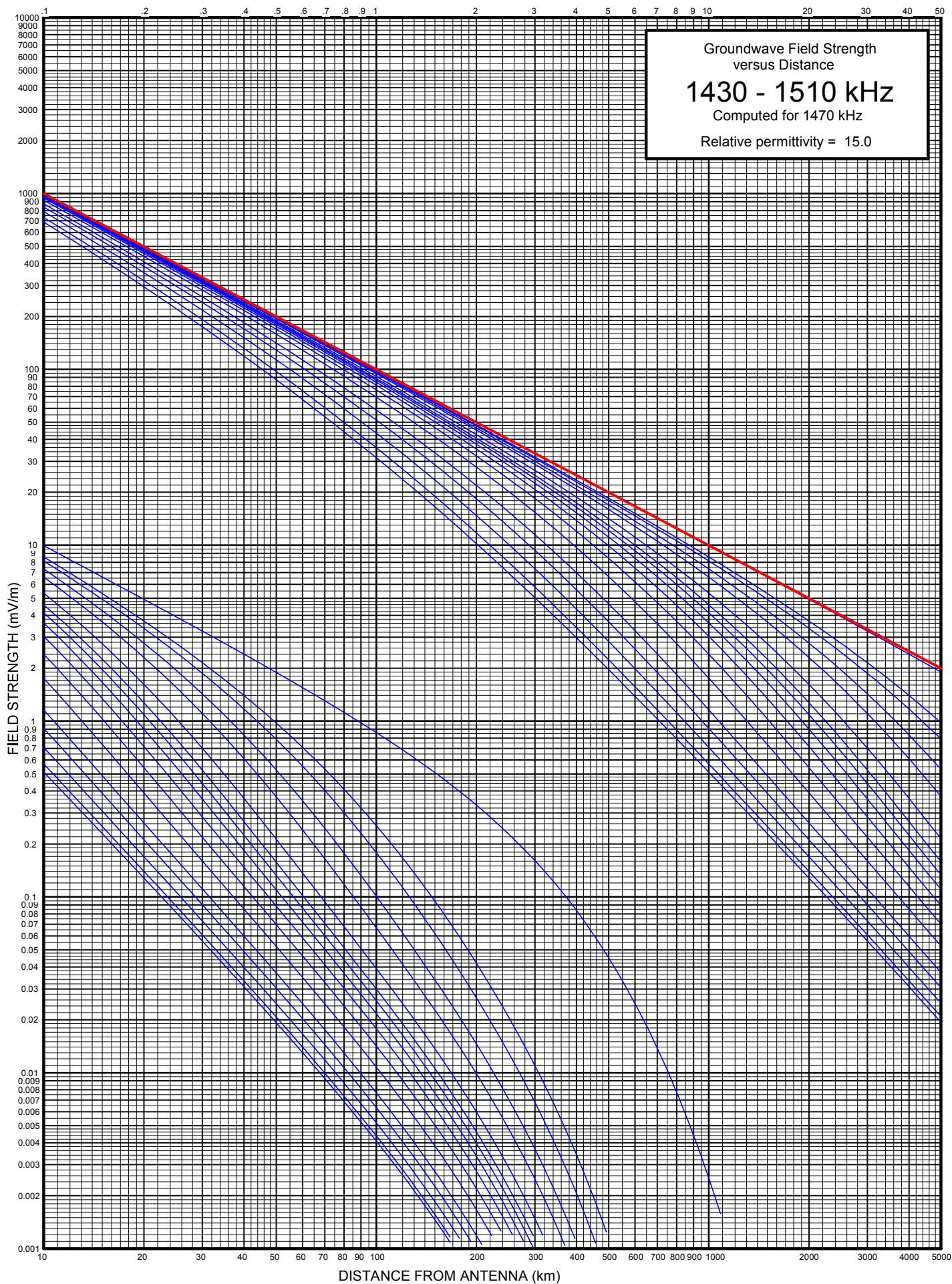
194° - 4 to 24.1 (M3), 2 to 75, 1 to 90.1

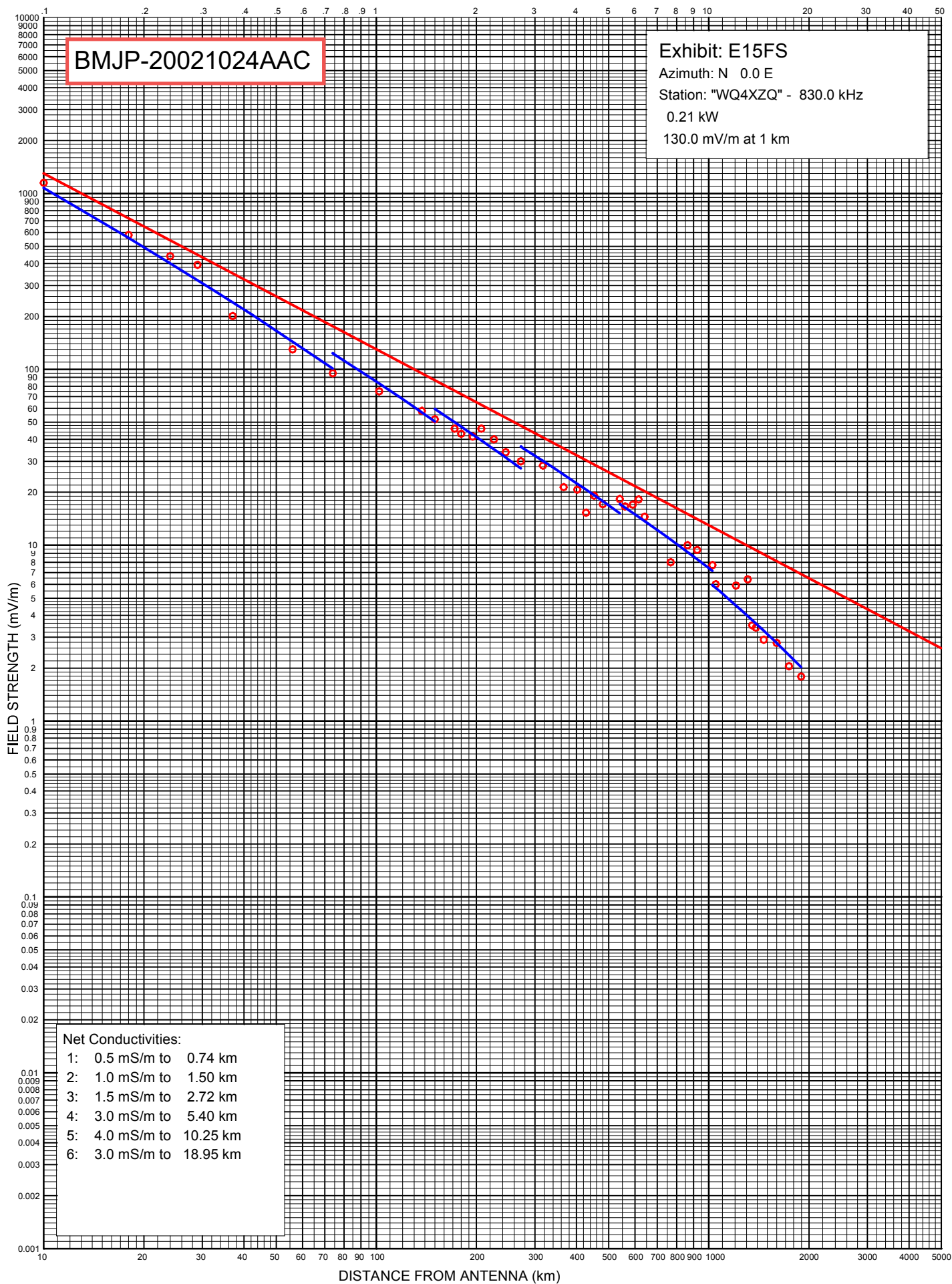
214° - 2 to 9.3, 3 to 17.5, 2 to 47.5, 1 to 101.4

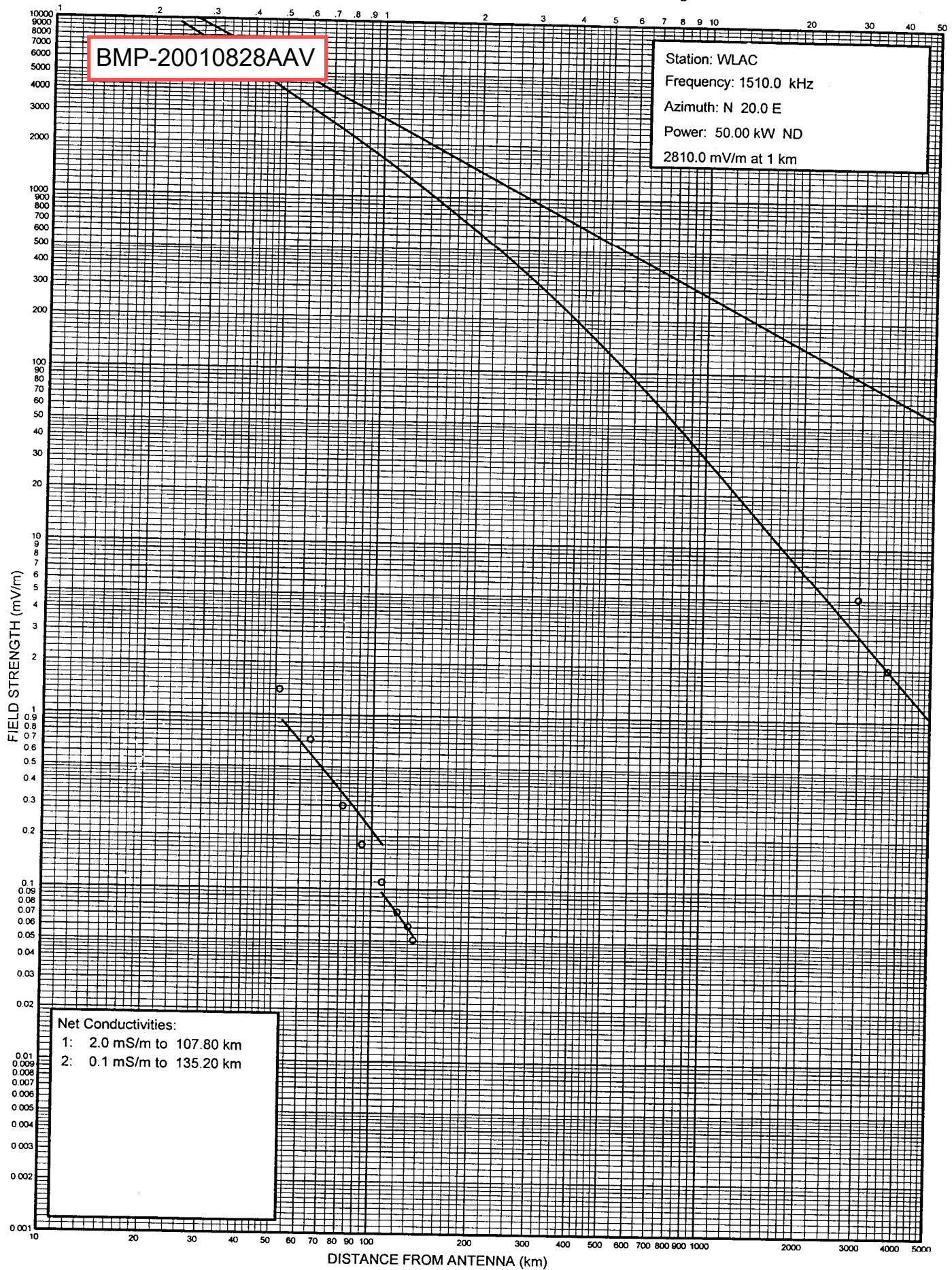
234° - 4 to 21.7 (M3), 3 to 70, 1.5 to 93.3

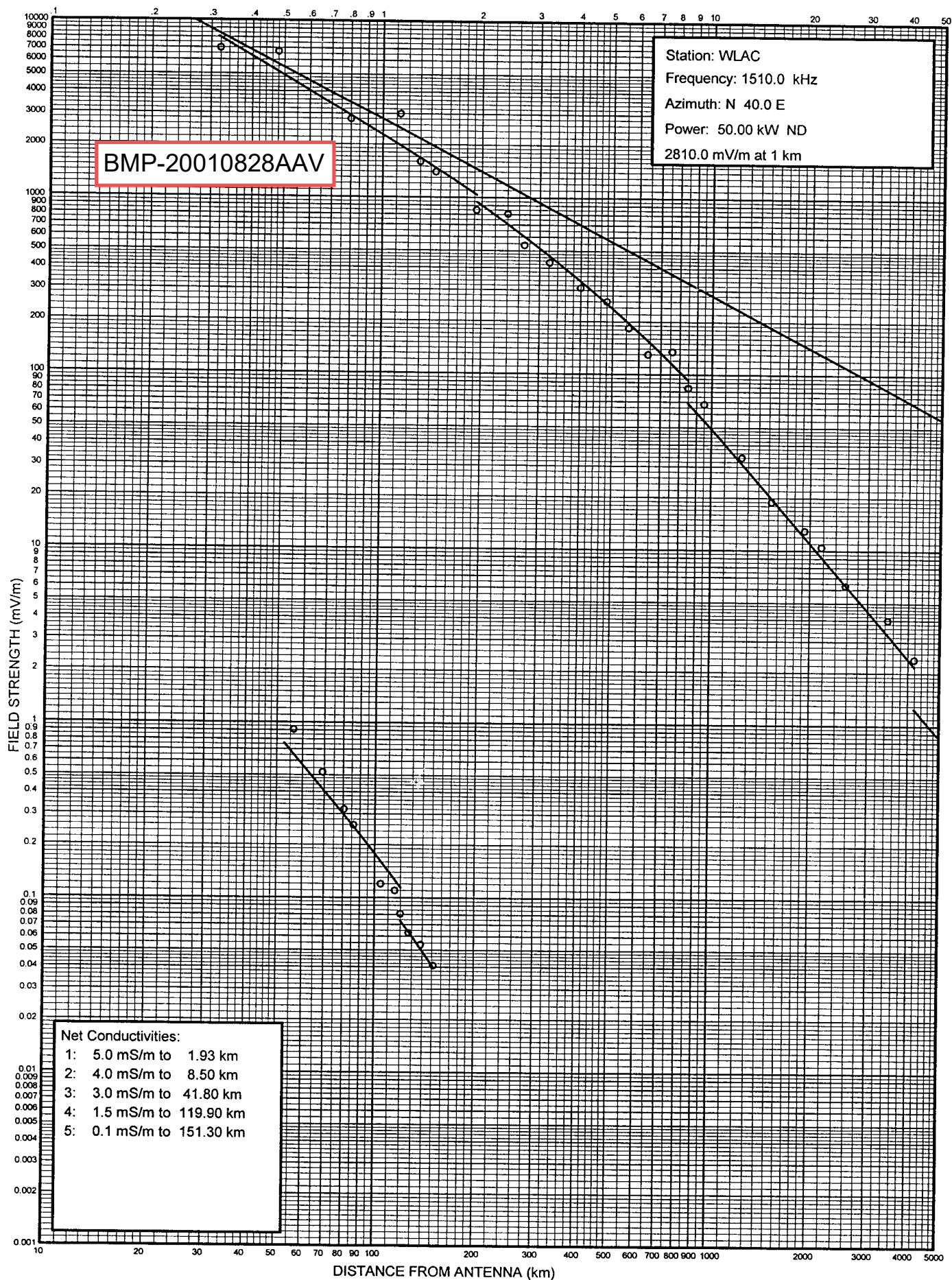
Detailed tabulations and certifications contained in original CDBS files.

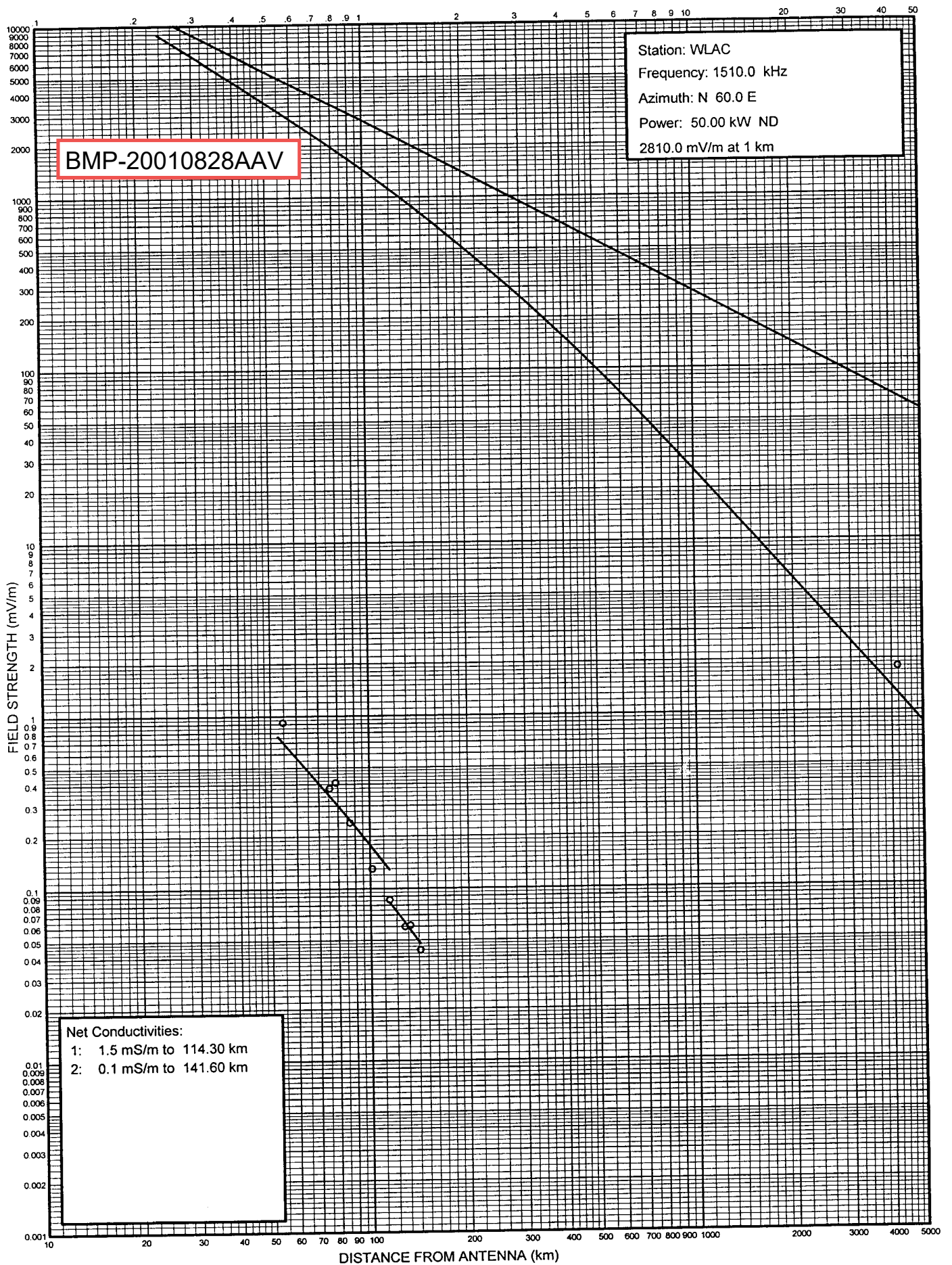


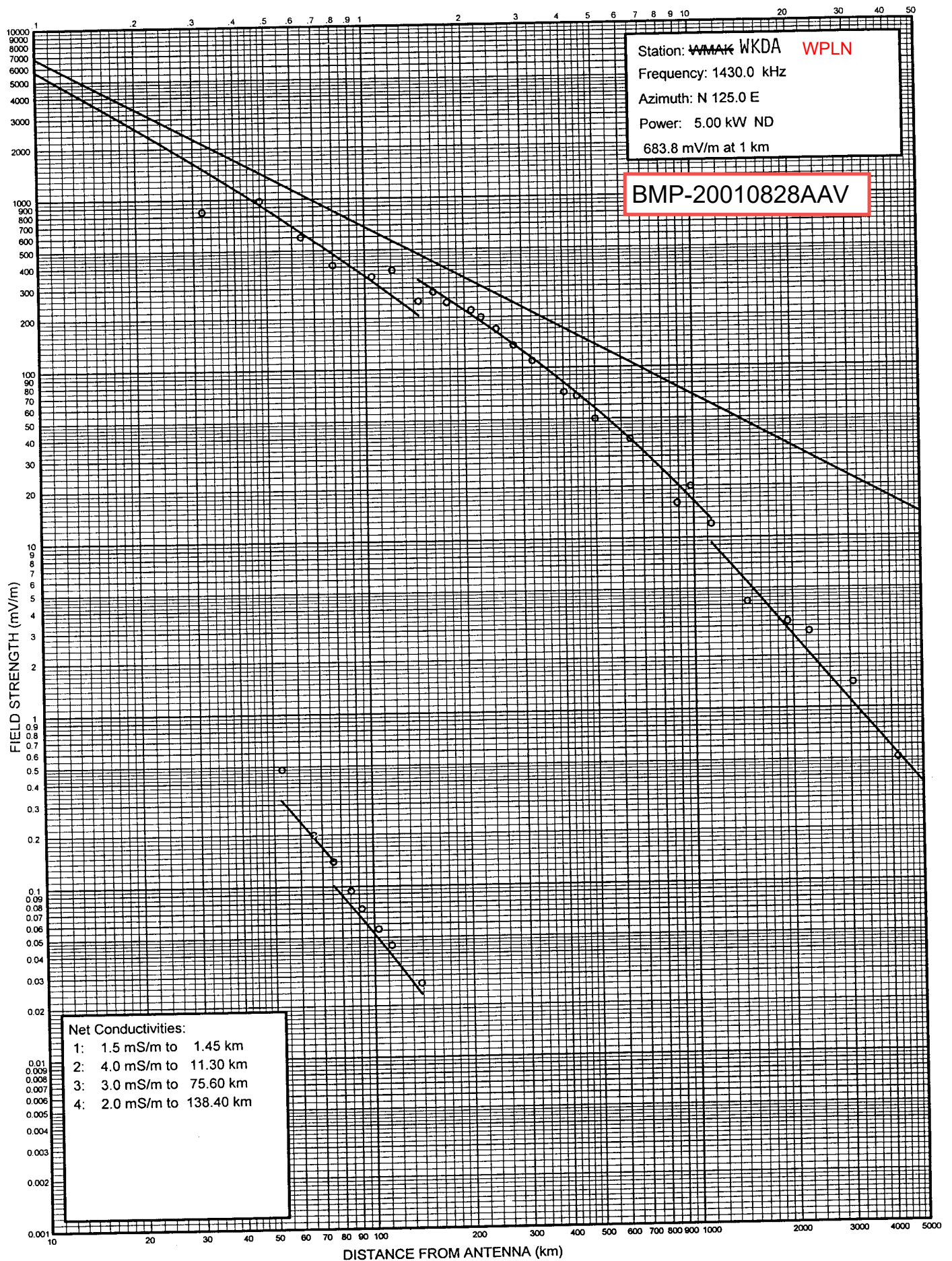






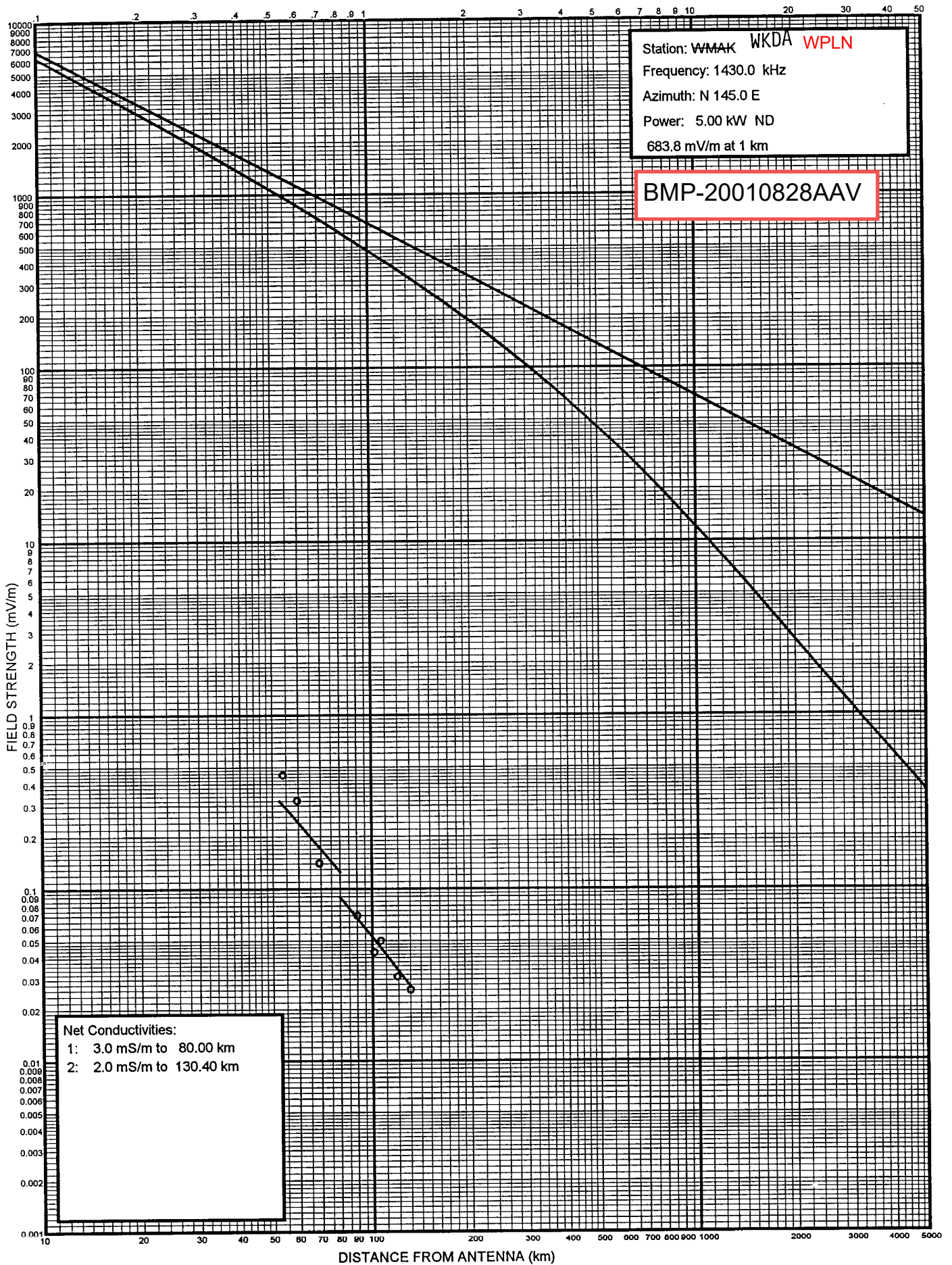


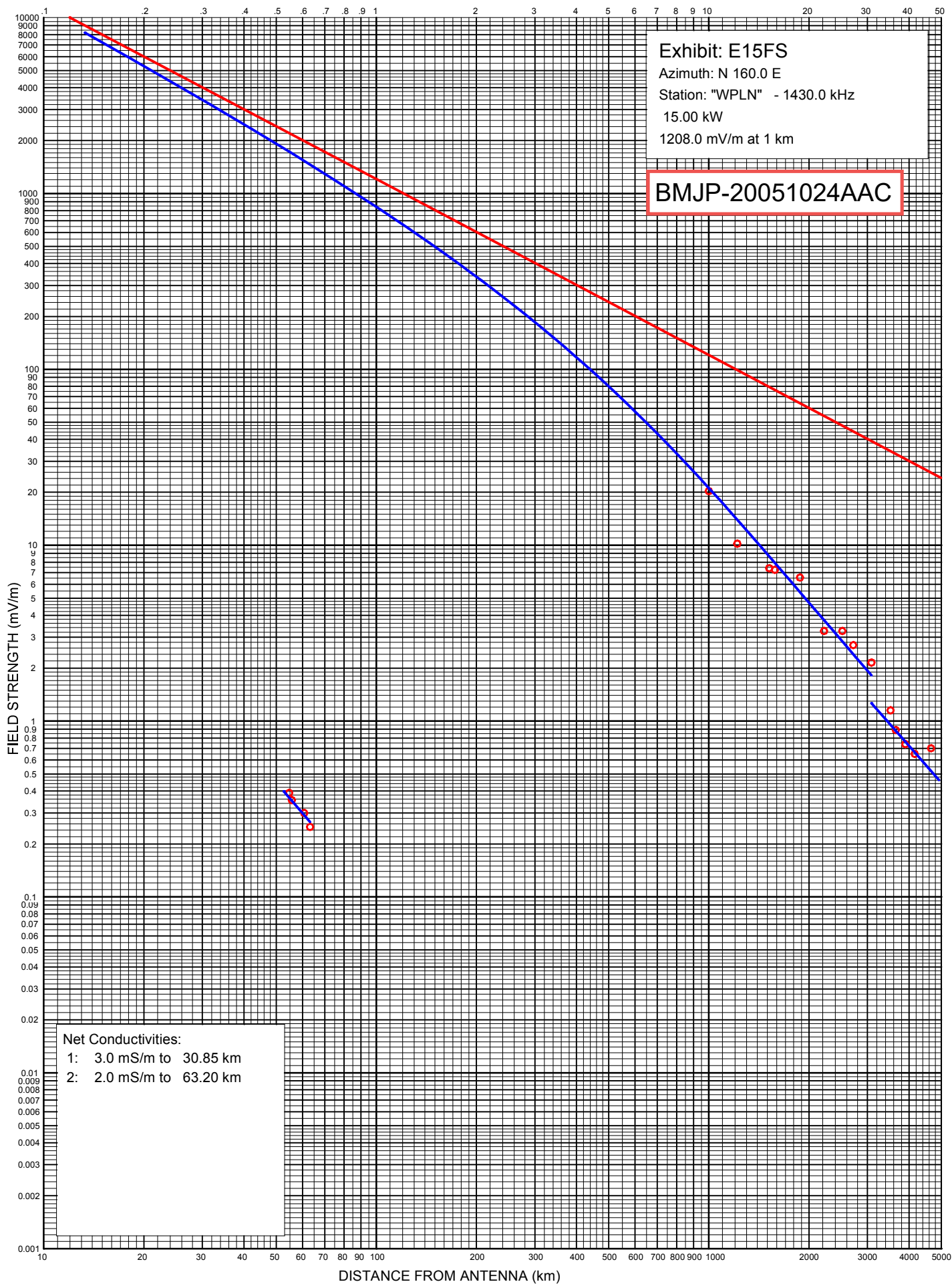


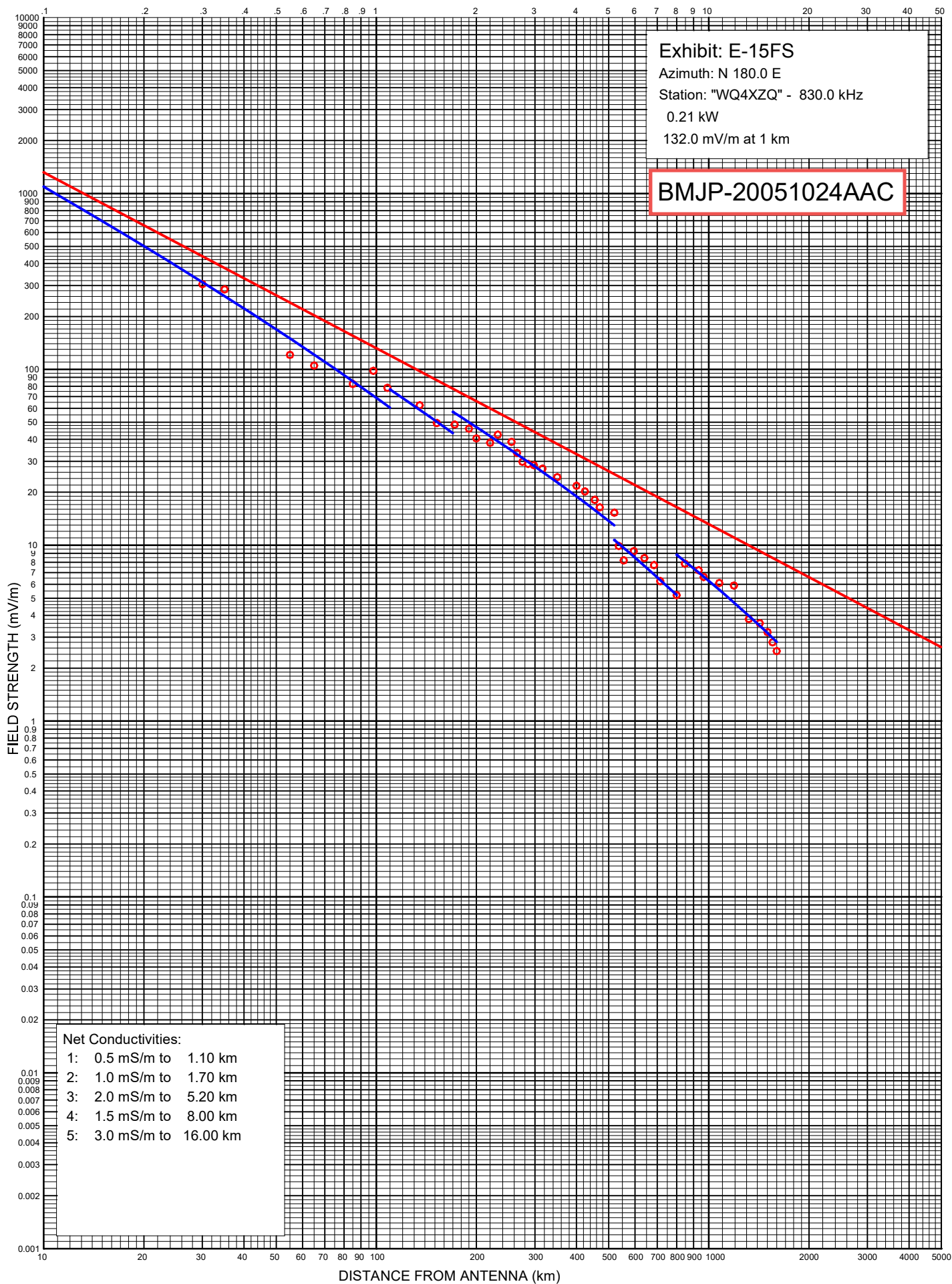


WKDA

WMAK Exhibit E-- , Figure 11

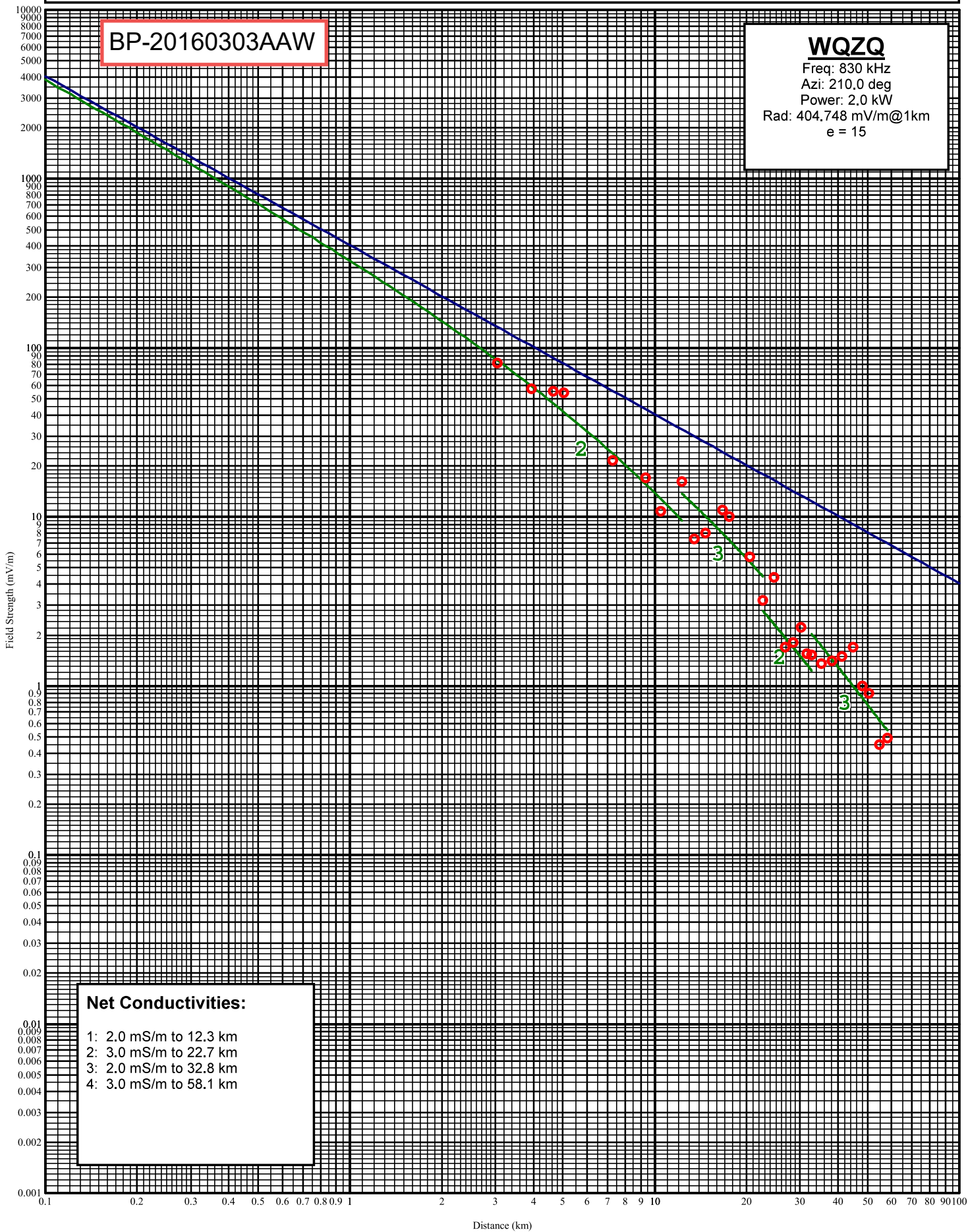






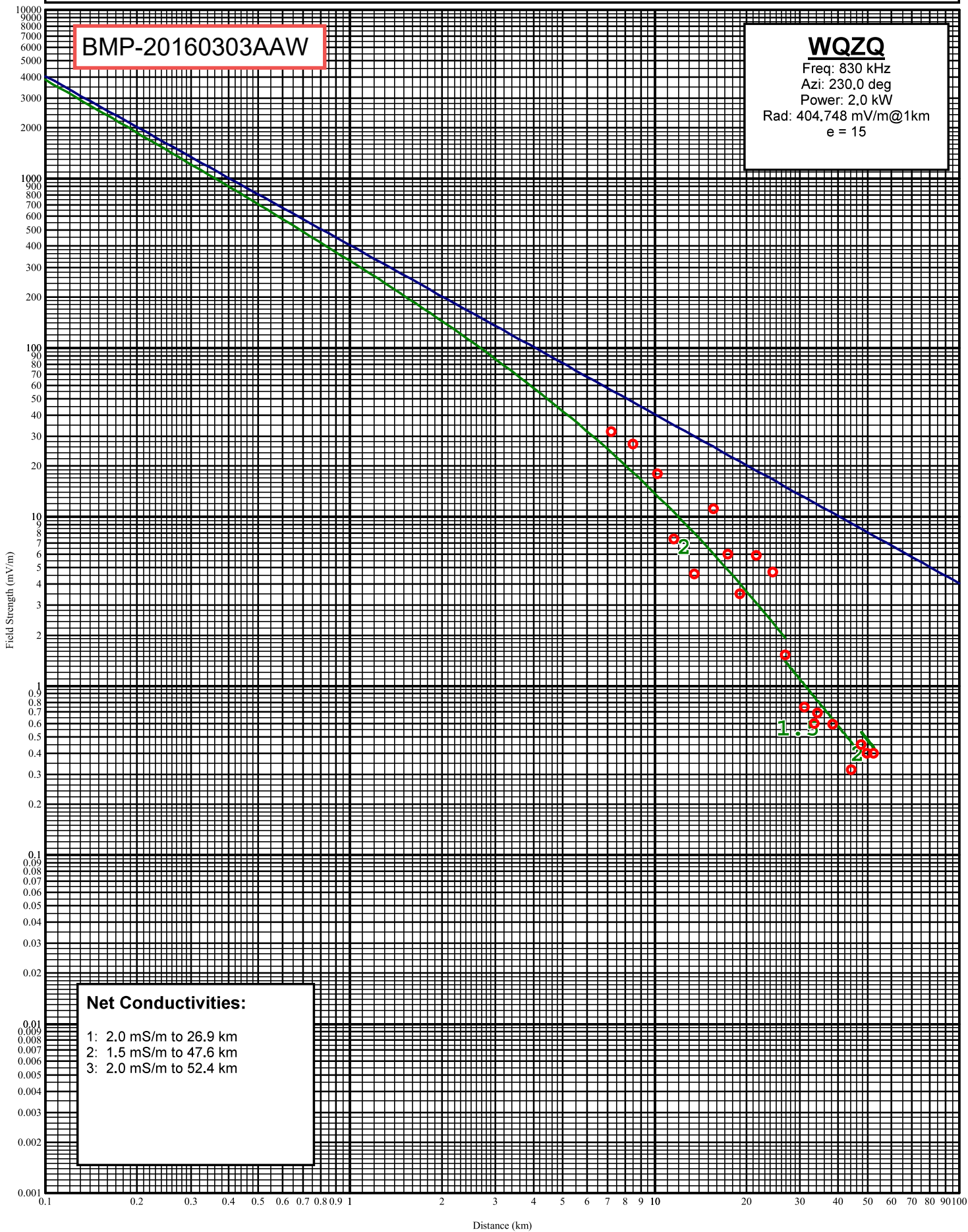
WQZQ AM Measured Field Strength

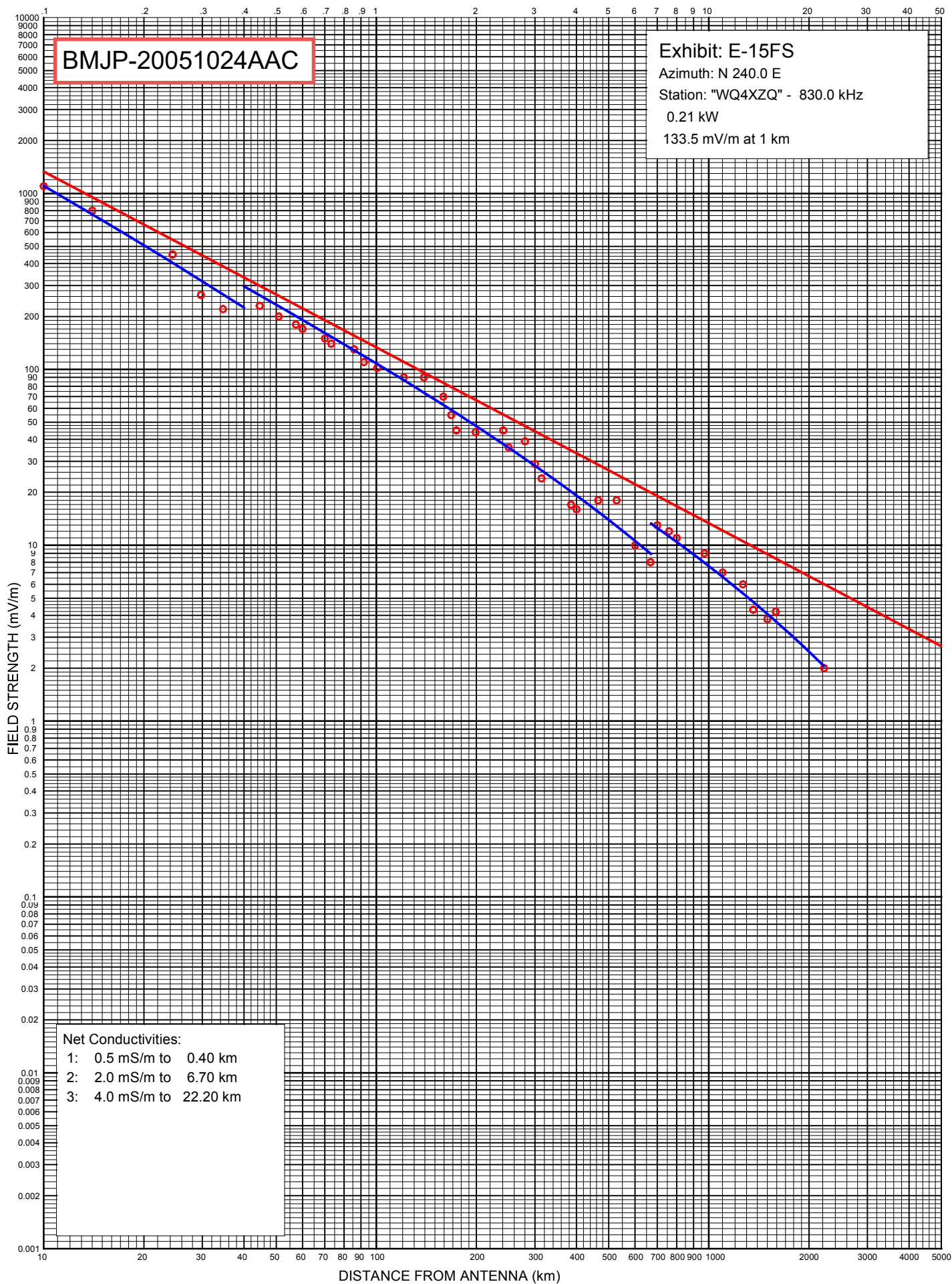
Shown With Matching Conductivity Curves

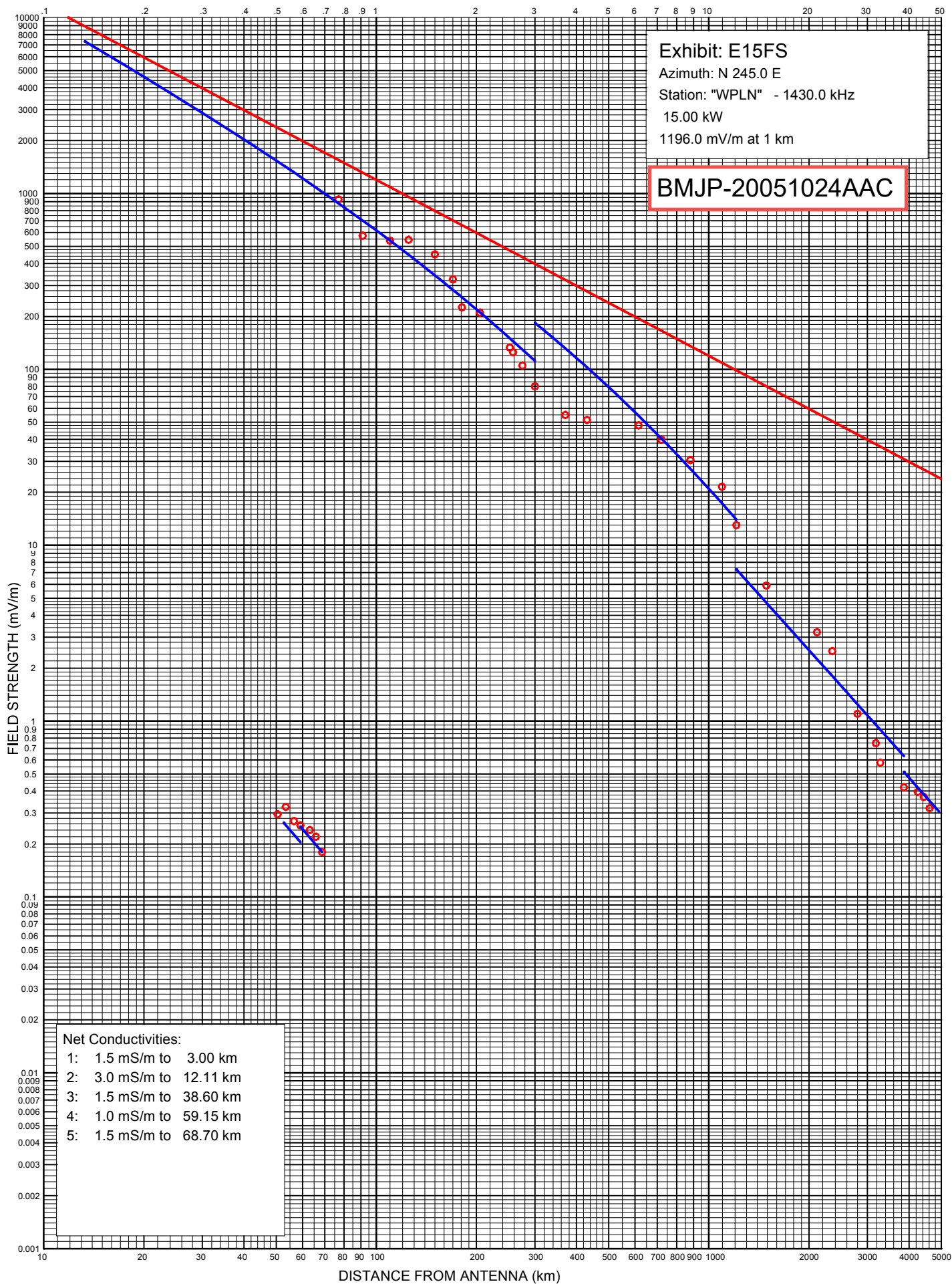


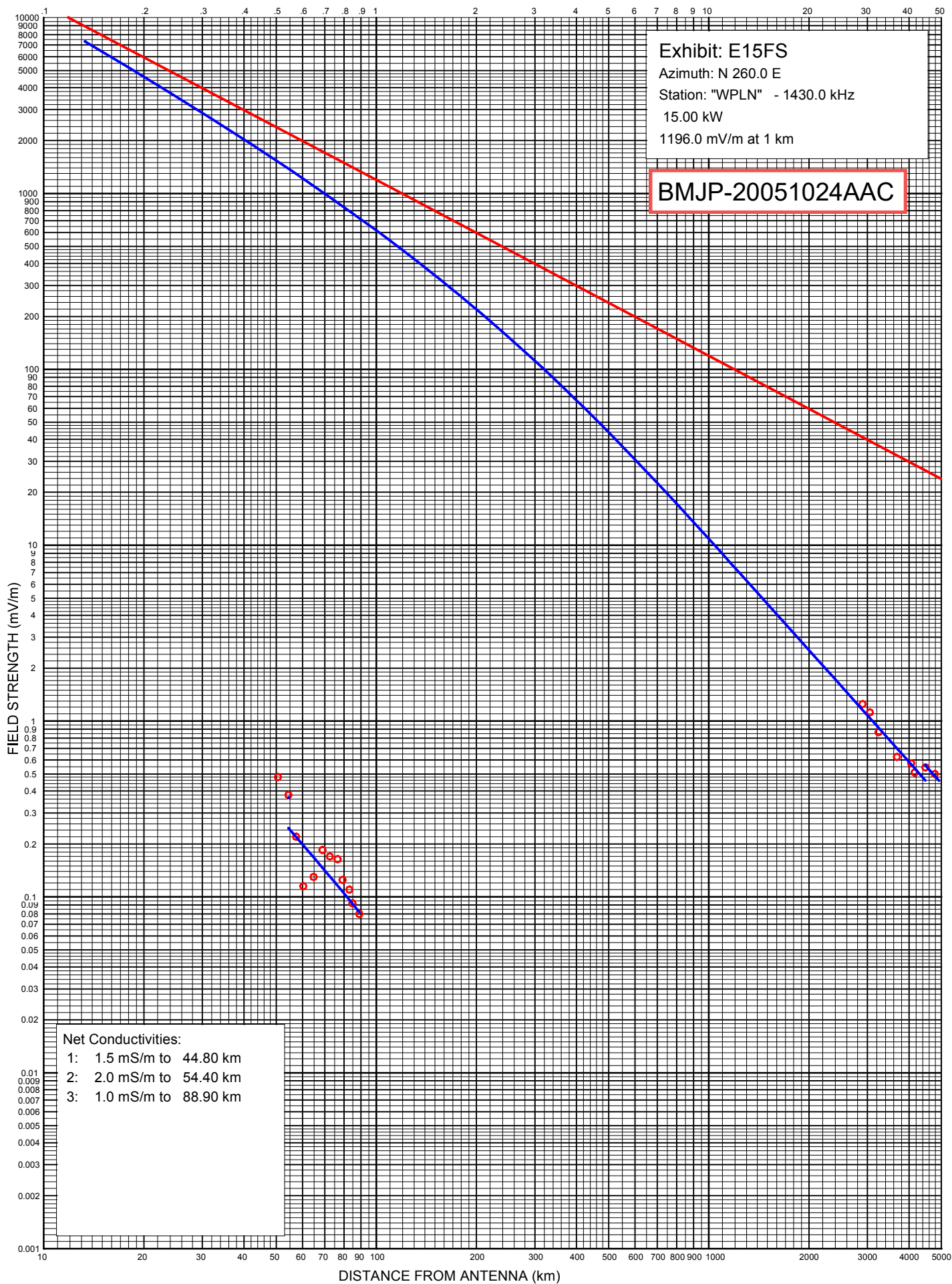
WQZQ AM Measured Field Strength

Shown With Matching Conductivity Curves



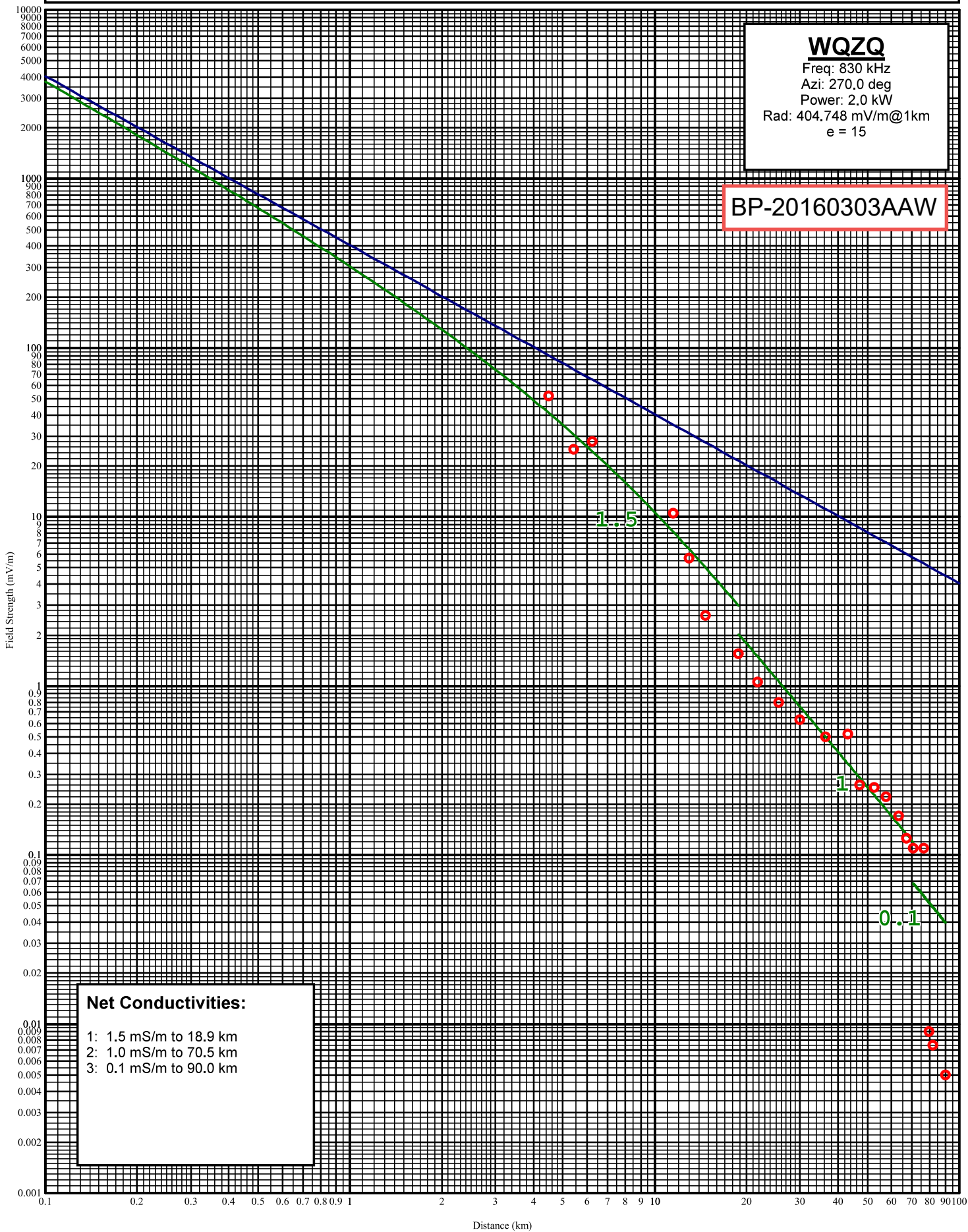


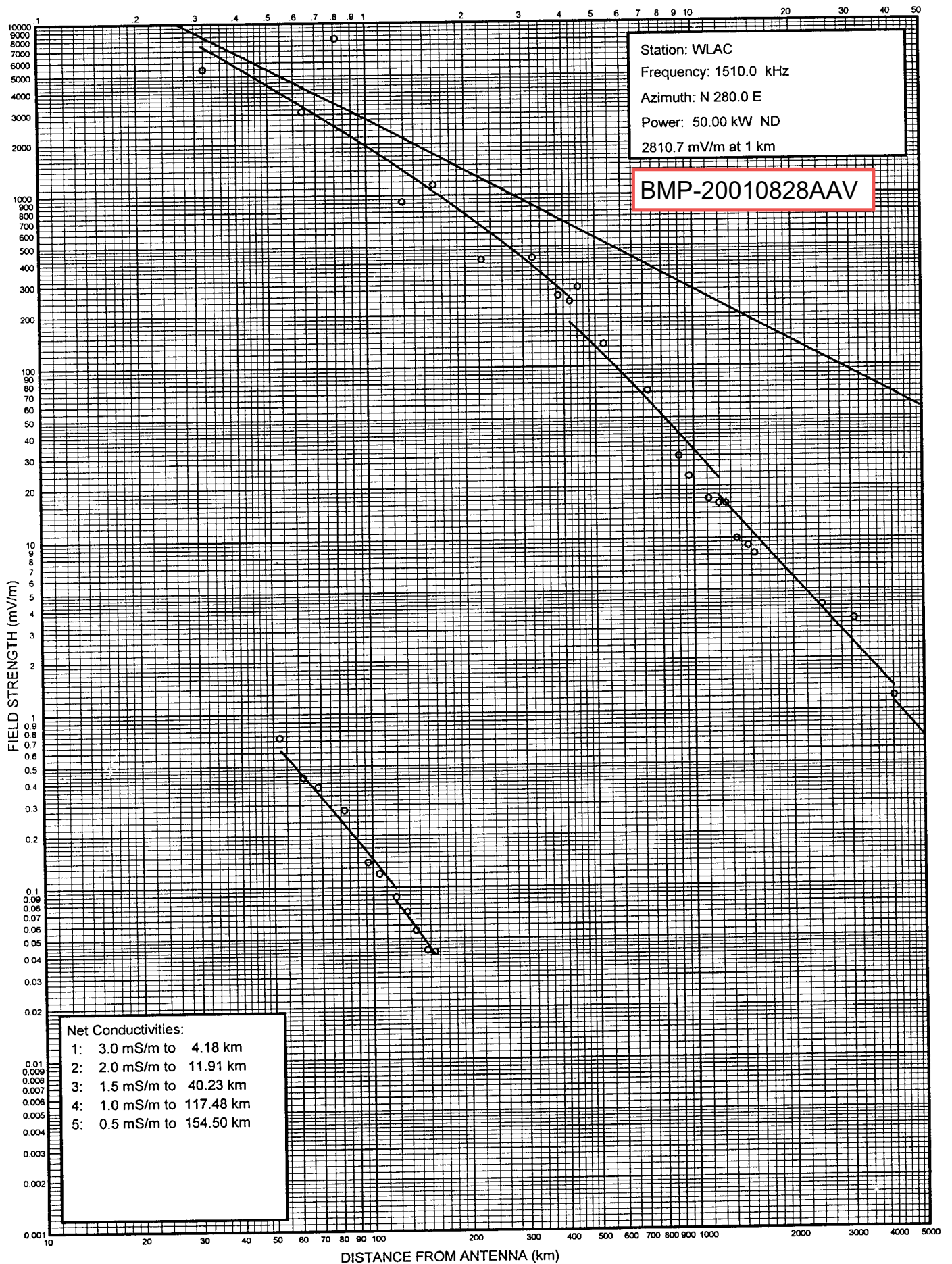


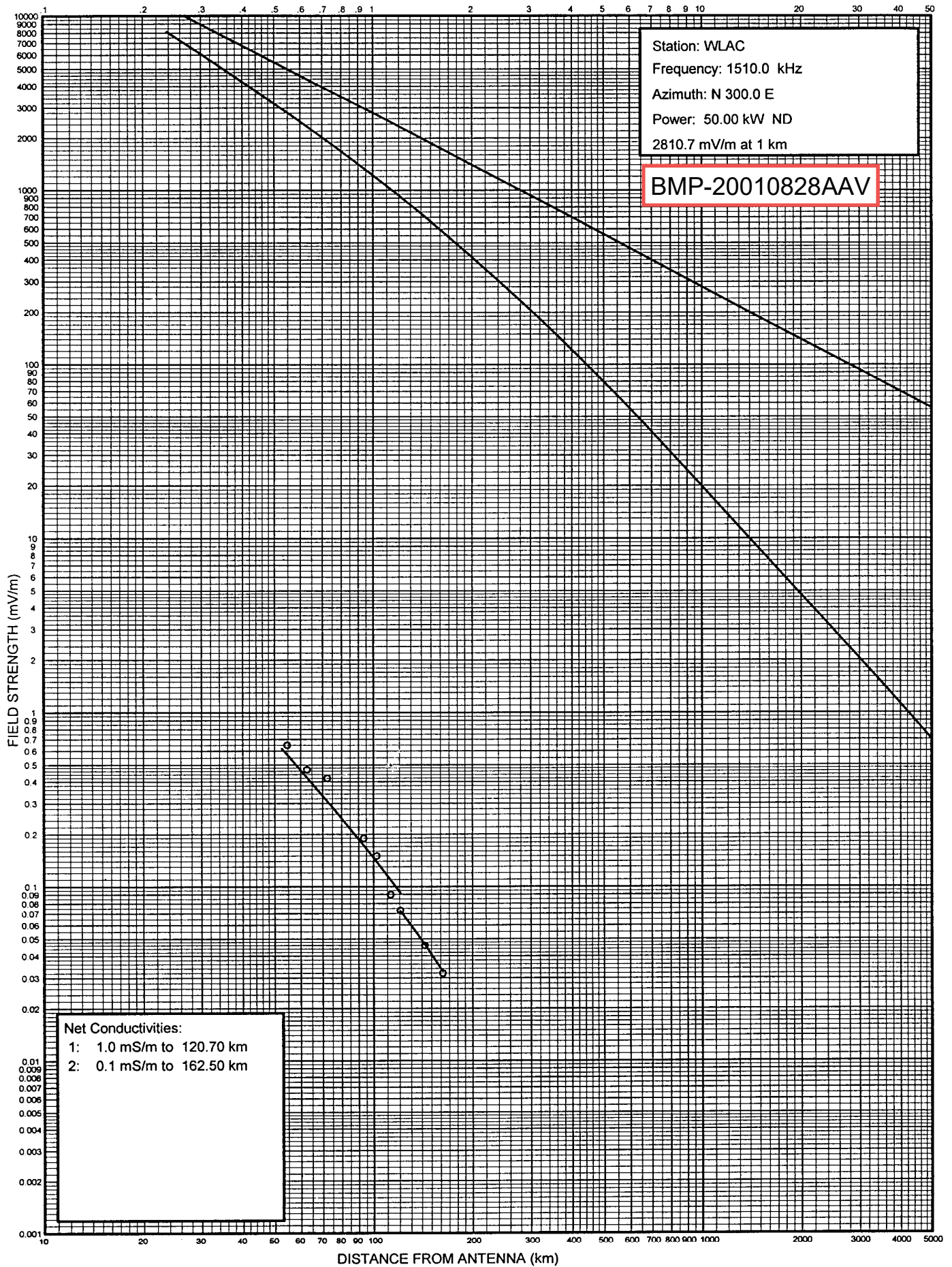


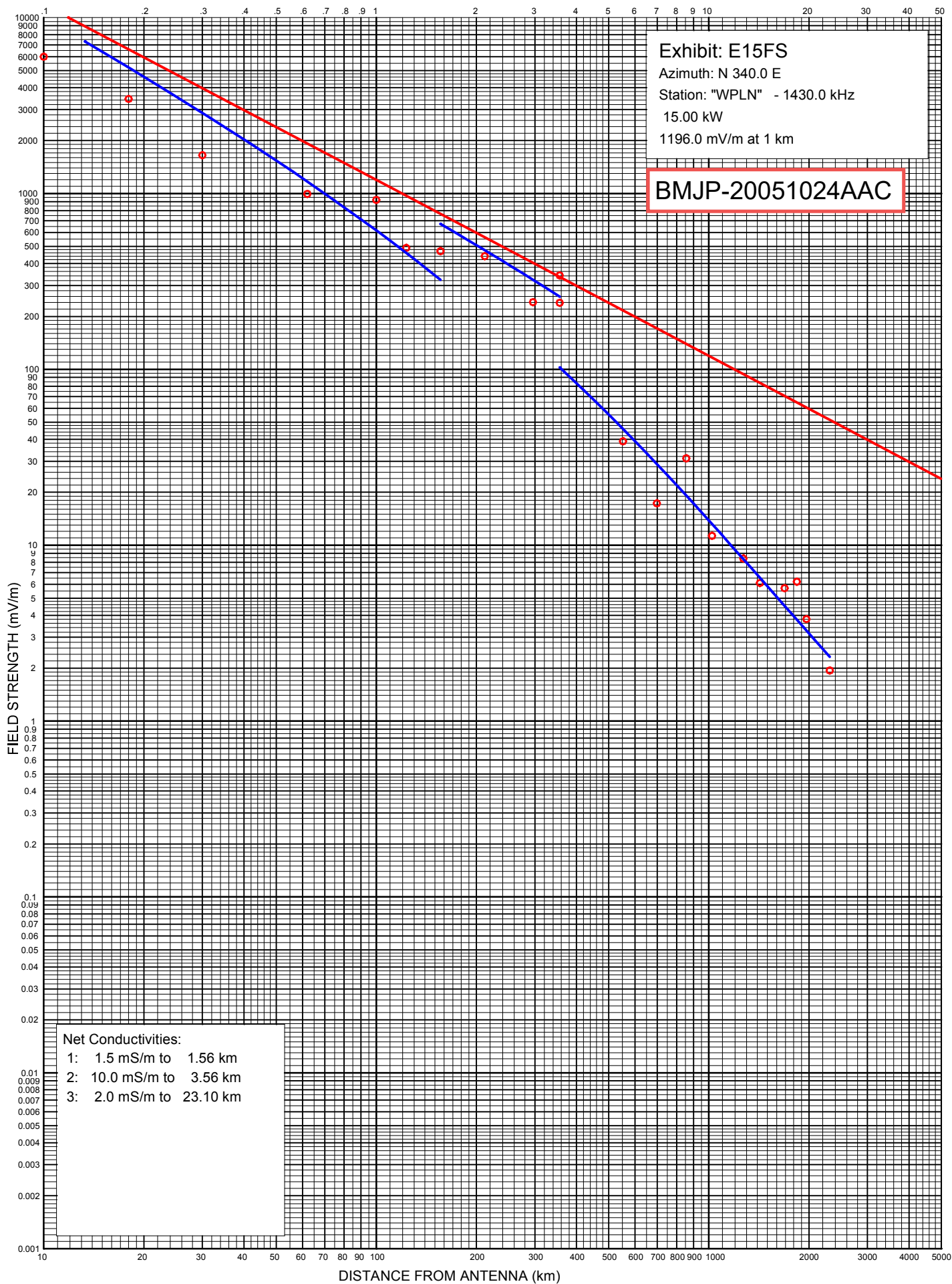
WQZQ AM Measured Field Strength

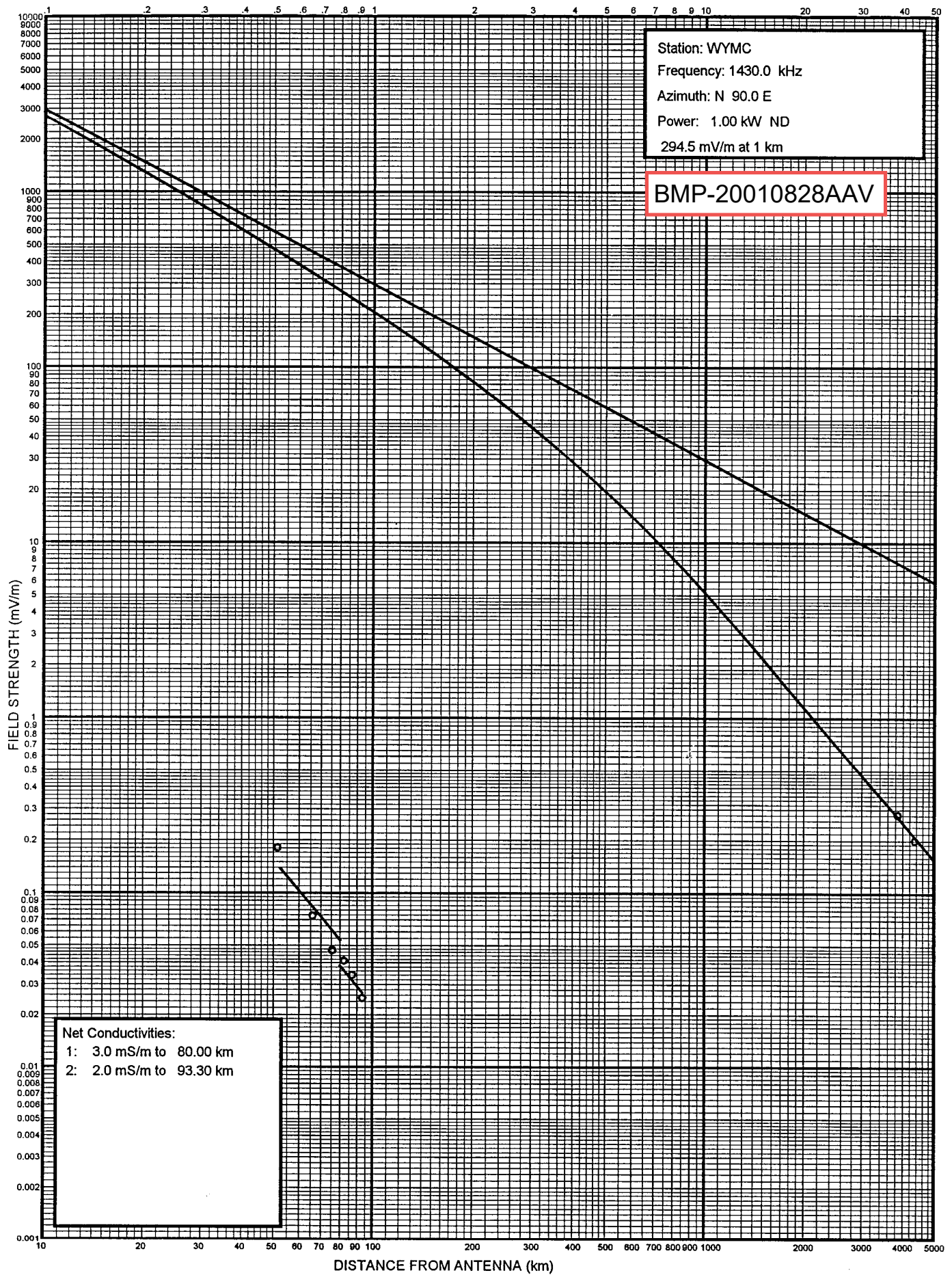
Shown With Matching Conductivity Curves

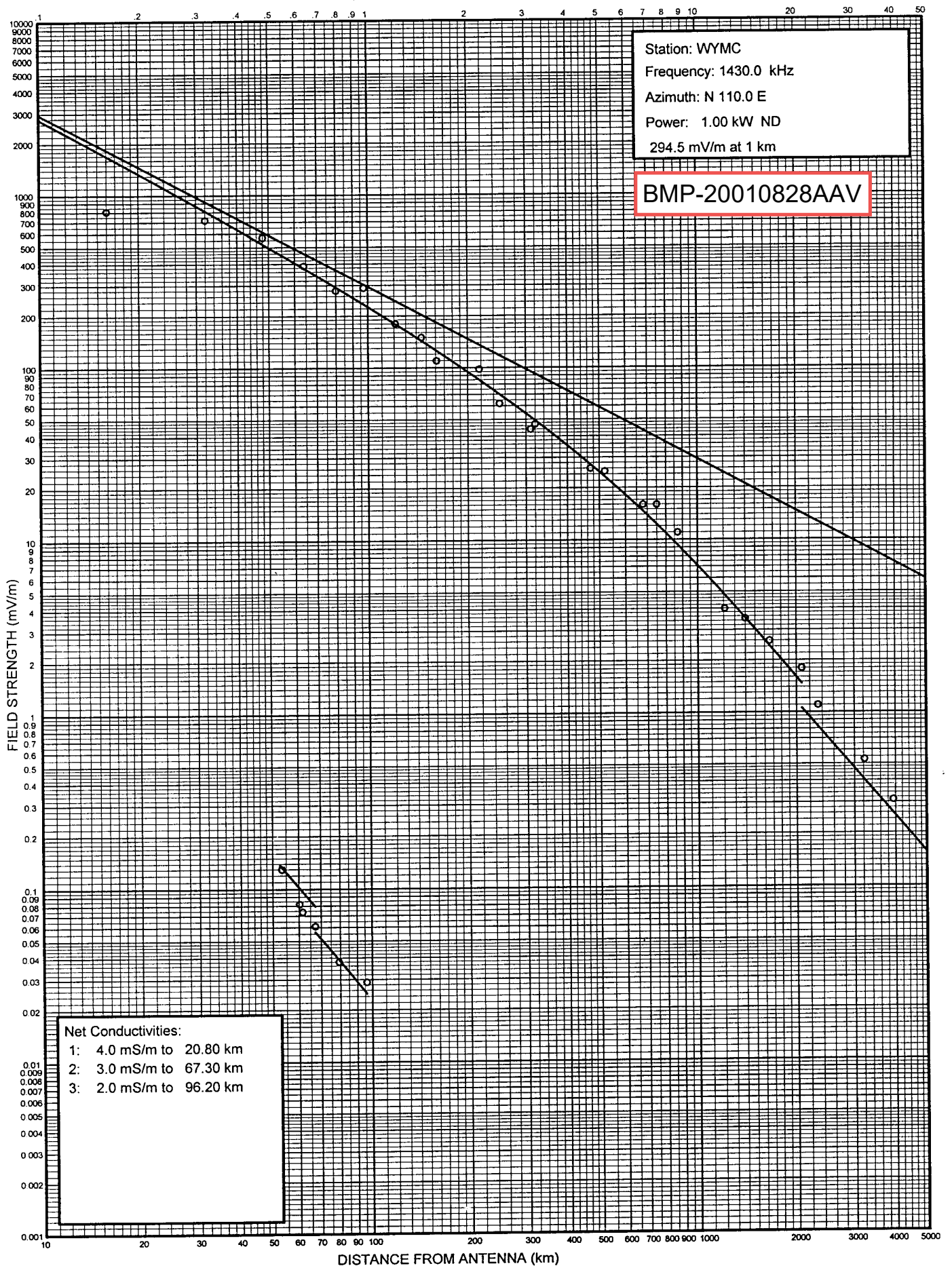




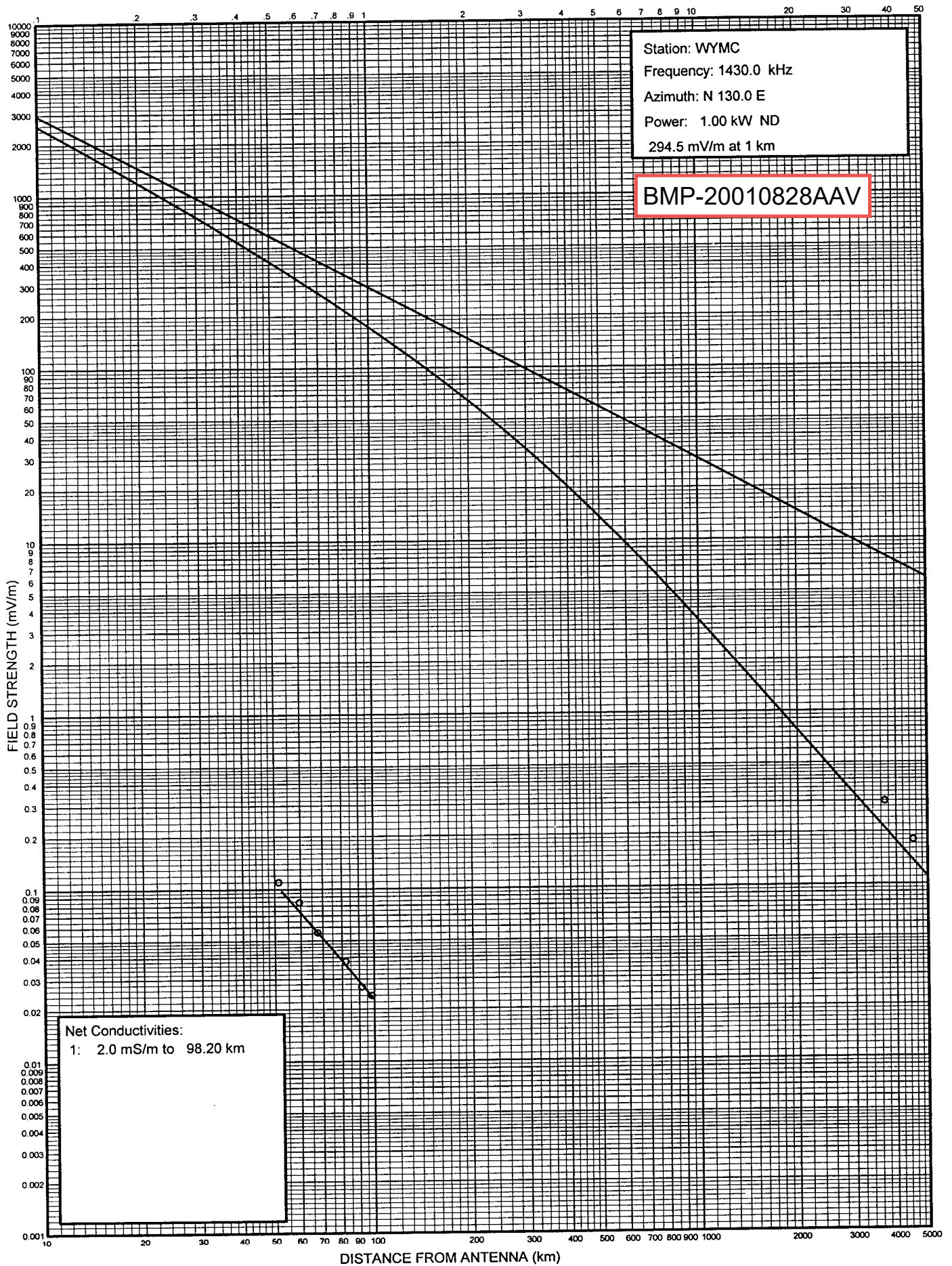


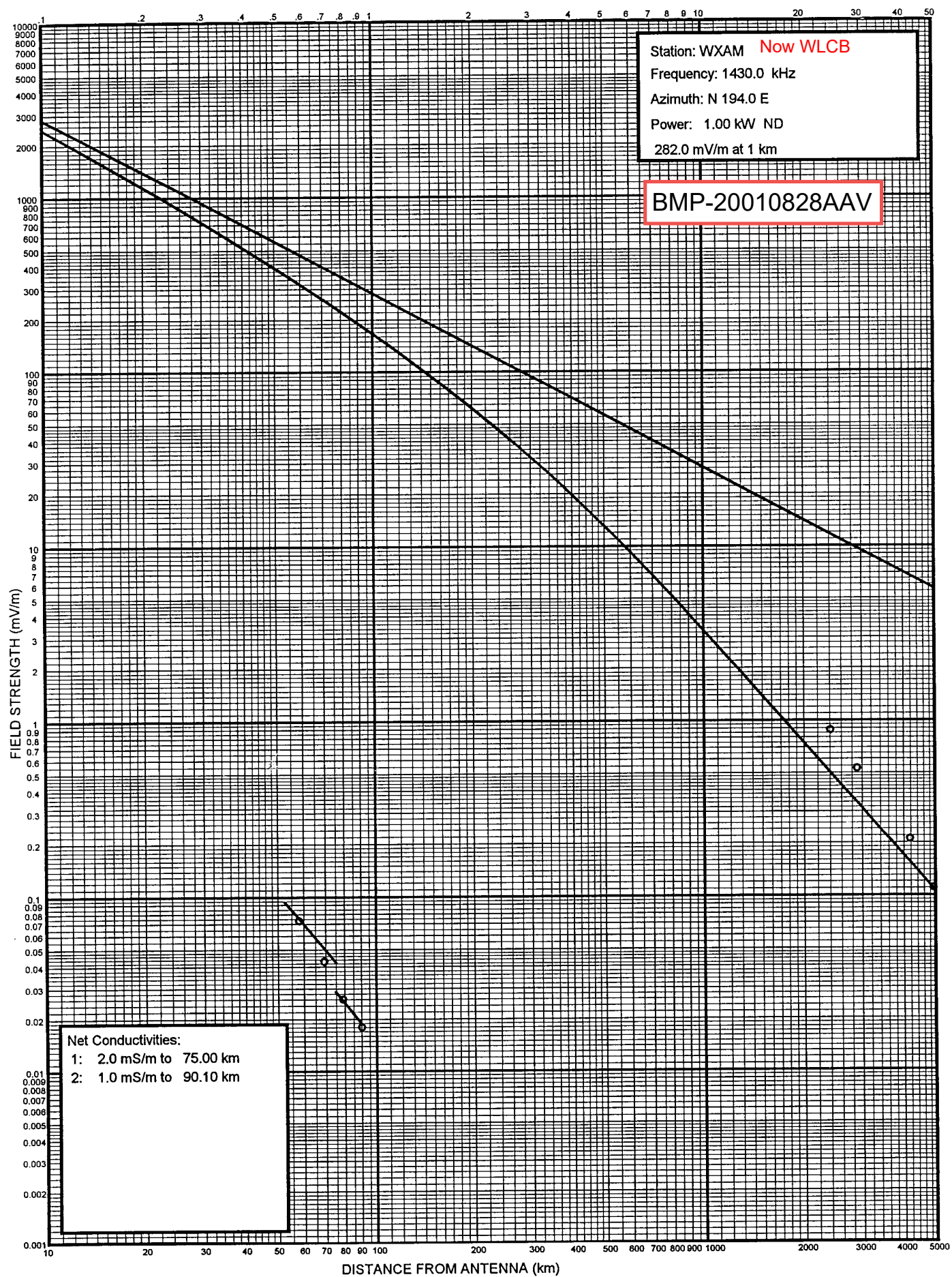


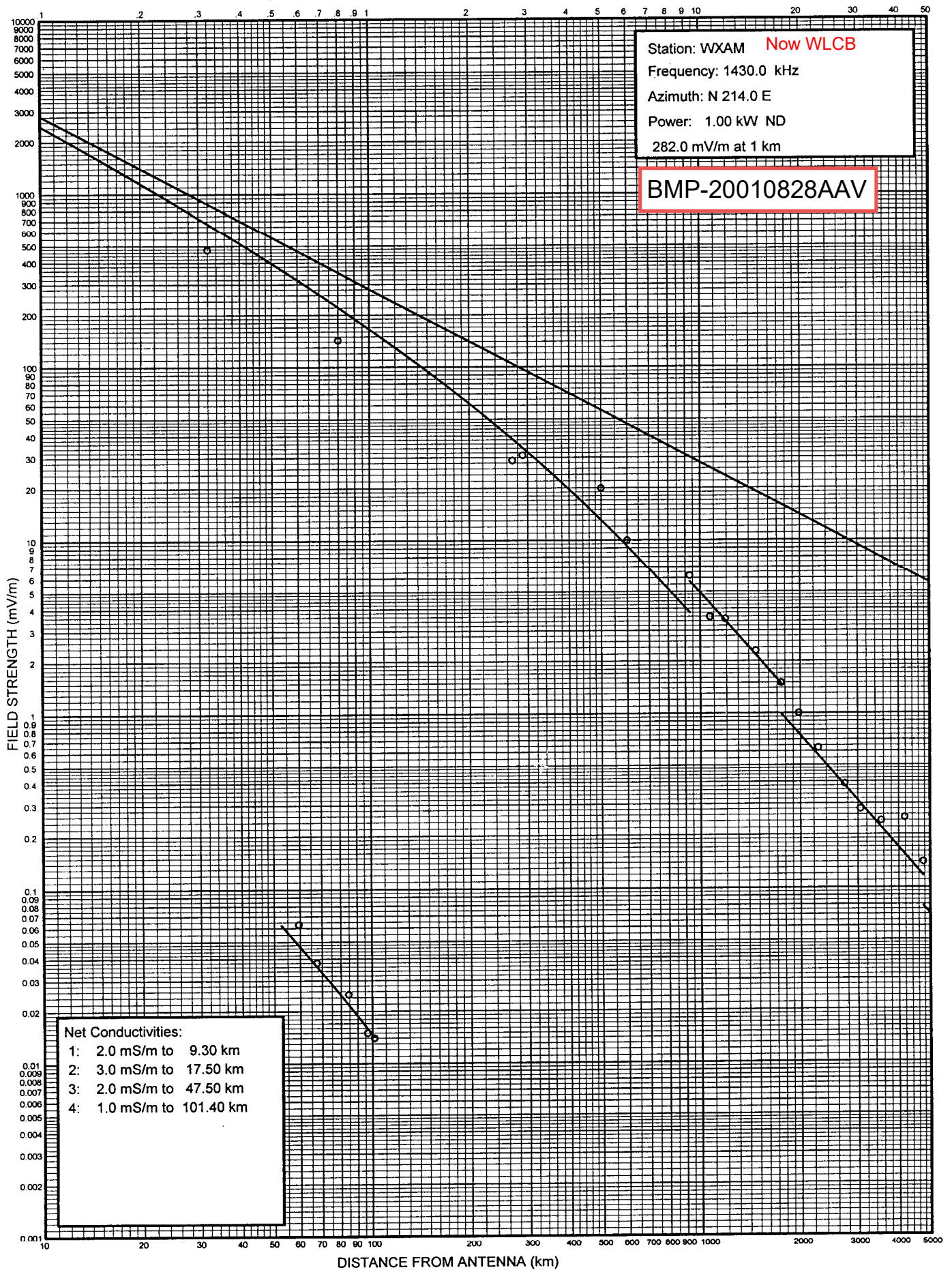




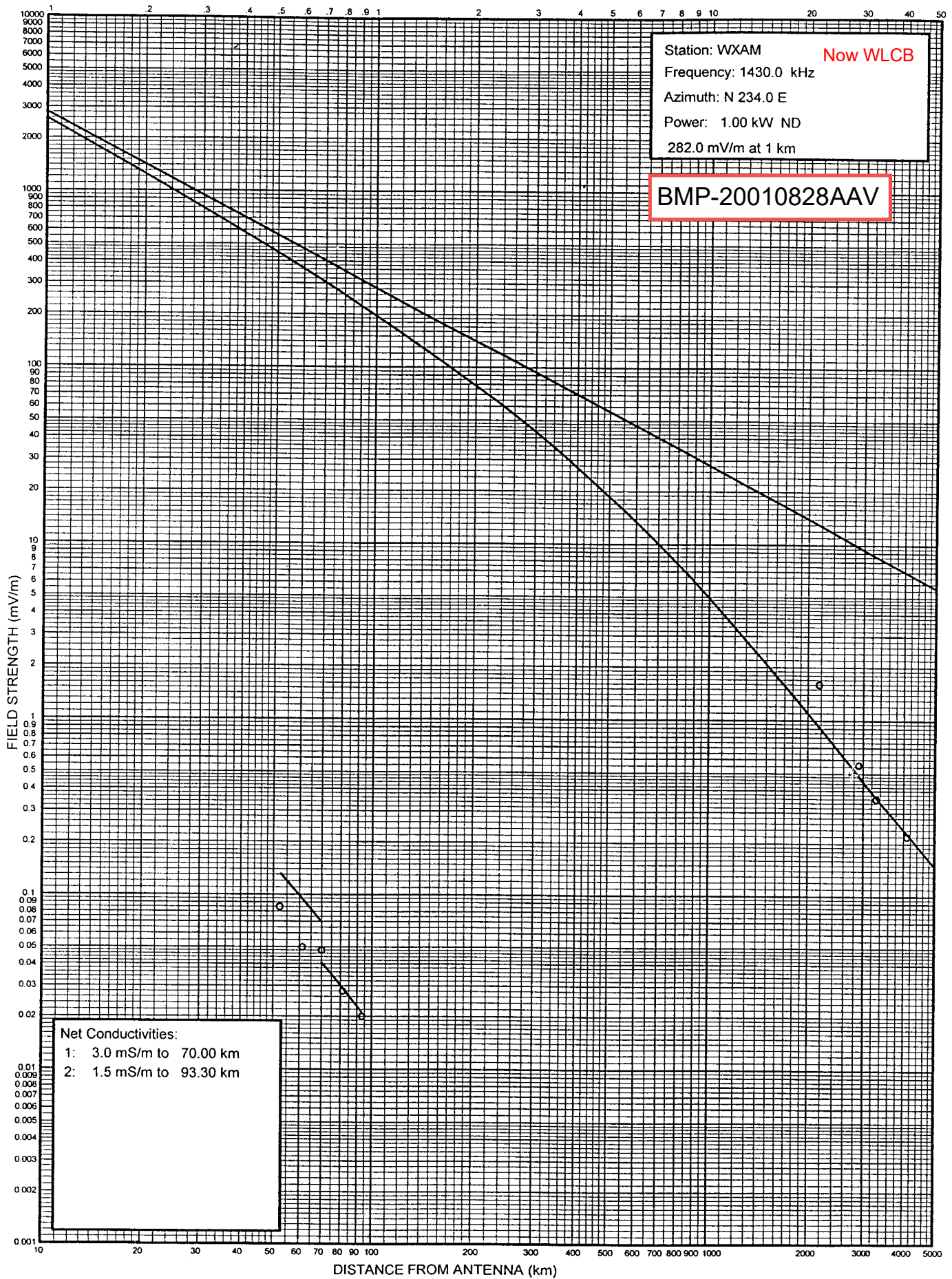
WKDA WMAK Exhibit E-3, Figure 16







WKDA WMAK Exhibit E-3, Figure 19



Call: WPIN
 Freq: 1430 kHz
 MADISON, TN, US
 Hours: N
 Lat: 36-16-14.90 N
 Lng: 86-42-53.40 W
 Power: 0.03 kW
 Theo RMS: 282.83 mV/m @ 1km @ 1kW

Field	Phase	Spacing	Orient	Height	Ref	TL	A	B	C	D	
#	Ratio	(deg)	(deg)	(deg)	Swch	(deg)	(deg)	(deg)	(deg)	(deg)	
1	1.000	0.0	0.0	99.4	0	0	0.0	0.0	0.0	0.0	
Call											
Letters	Ct	St	City	Azi	Ang	Low	Ang	High	SWFF	Req	Prot
				(deg)	(deg)	(deg)	(deg)	(deg)	(100uV/m)	(mV/m)	(mV/m)
WXNT	US	IN	INDIANAPOLIS	6.34	18.92	30.00	153.76	1.474	47.93	44.94	2.99
50% = 4.034, 25% = 6.029; CHKT/ = 3.45 WOWW=2.09 WYKG=1.94 WION=1.92 WEEF=1.67 WLKF=1.66 WFOB=1.57											
WBEV=1.56 WNSW=1.47											
KTbz	US	OK	TULSA	272.47	7.99	14.22	57.99	1.092	94.13	48.24	45.89
50% = 2.889, 25% = 4.401; WXNT=1.51 KBTN=1.44 XELL/A=1.42 WGEM=1.41 WOWW=1.36 WOC=1.35 WLKF=1.32											
XECOC/A=1.27 XE/A=1.23 CHKT/ =1.13 KSHJ=1.09											
WYMC	US	KY	MAYFIELD	288.89	37.84	52.21	316.72	5.611	88.57	34.61	53.97
50% = 19.769, 25% = 22.442; WXNT=19.77 WOWW=8.76 KTBZ=6.00											
WEIR	US	WV	WEIRTON	46.97	9.95	17.14	70.24	2.548	181.42	47.82	133.60
50% = 8.794, 25% = 10.194; CHKT/ =8.79 WXNT=3.43 WNAV=2.79 WNSW=2.65											
WNSW	US	NJ	NEWARK	61.13	4.13	8.54	28.58	1.412	247.11	48.79	198.32
50% = 4.533, 25% = 5.649; CHKT/ =4.53 WENE=1.96 WNAV=1.83 WDJ=1.45 WHKZ=1.44											
WFOB	US	OH	FOSTORIA	27.15	11.92	20.04	86.77	4.659	268.48	47.34	221.14
50% = 17.482, 25% = 18.636; WXNT=17.48 CHKT/ =6.46											

E18B Night RSS

Call: WPLN

Freq: 1430 kHz

MADISON, TN, US

Hours: N

Lat: 36-16-14.90 N

Lng: 086-42-53.40 W

Power: 0.03 kW

Theo RMS: 282.83 mV/m @ 1km @ 1kW

Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Contributors:

Call	Freq (kHz)	City	St	Ct	Limit		RSS
					(mV/m)	(%)	Limit (mV/m)
WXNT	1430	INDIANAPOLIS	IN	US	25.045	100.0	25.045
WOWW	1430	GERMANTOWN	TN	US	13.754	54.9	28.573