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Federal Communications Commission
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DEC 29 2016

Federal Communications Commission
Office of the Secretary

FCC 302-AM

APPLICATION FOR AM

BROADCAST STATION LICENSE

(Please read instructions before filling out form.)

FOR COMMISSION USE ONLY

FILE NO.

BML-2016123 SAFD

SECTION I - APPLICANT FEE INFORMATION

1. PAYOR NAME (Last, First, Middle Initial)

Ramar Communications Inc.

MAILING ADDRESS (Line 1) (Maximum 35 characters)

PO Box 3757

MAILING ADDRESS (Line 2) (Maximum 35 characters)

CITY

Lubbock

STATE OR COUNTRY (if foreign address)

TX

ZIP CODE

79452

TELEPHONE NUMBER (include area code)

(806) 745 3434

CALL LETTERS

KJTV(AM)

OTHER FCC IDENTIFIER (If applicable)

55061

2. A. Is a fee submitted with this application?

☐

Yes

☒

No

B. If No, indicate reason for fee exemption (see 47 C.F.R. Section

☐

Governmental Entity

☐

Noncommercial educational licensee

☒

Other (Please explain):

C. If Yes, provide the following information:

Coordinate Correction Only

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter fee amount due in Column (C).

(A)

FEE TYPE CODE		

(B)

FEE MULTIPLE			
0	0	0	1

(C)

FEE DUE FOR FEE TYPE CODE IN COLUMN (A)
\$

FOR FCC USE ONLY

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To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)

--	--	--

(B)

0	0	0	1
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(C)

\$

FOR FCC USE ONLY

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ADD ALL AMOUNTS SHOWN IN COLUMN C,
AND ENTER THE TOTAL HERE.
THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED
REMITTANCE.TOTAL AMOUNT
REMITTED WITH THIS
APPLICATION

\$

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RECEIVED

2017 JAN -3 P 12:56

AUDIO SERVICES DIVISION

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Ramar Communications Inc.		
MAILING ADDRESS PO Box 3757		
CITY Lubbock	STATE TX	ZIP CODE 79452

2. This application is for:

- ☒ Commercial
 ☐ Noncommercial
☒ AM Directional
 ☐ AM Non-Directional

Call letters KJTV(AM)	Community of License Lubbock	Construction Permit File No. BMP20140724AAN	Modification of Construction Permit File No(s).	Expiration Date of Last Construction Permit 12/31/2016
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3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

☒ Yes ☐ No

If No, explain in an Exhibit.

Exhibit No.

4. Have all the terms, conditions, and obligations set forth in the above described construction permit been fully met?

☒ Yes ☐ No

If No, state exceptions in an Exhibit.

Exhibit No.

5. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect?

☐ Yes ☒ No

If Yes, explain in an Exhibit.

Exhibit No.

6. Has the permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with 47 C.F.R. Section 73.3615(b)?

☐ Yes ☐ No

If No, explain in an Exhibit.

☒ Does not apply

Exhibit No.

7. Has an adverse finding been made or an adverse final action been taken by any court or administrative body with respect to the applicant or parties to the application in a civil or criminal proceeding, brought under the provisions of any law relating to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?

☐ Yes ☒ No

If the answer is Yes, attach as an Exhibit a full disclosure of the persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), and the disposition of the litigation. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 U.S.C. Section 1.65(c), the applicant need only provide: (i) an identification of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.

Exhibit No.

8. Does the applicant, or any party to the application, have a petition on file to migrate to the expanded band (1605-1705 kHz) or a permit or license either in the existing band or expanded band that is held in combination (pursuant to the 5 year holding period allowed) with the AM facility proposed to be modified herein?

☐ Yes ☒ No

If Yes, provide particulars as an Exhibit.

Exhibit No.

The APPLICANT hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because use of the same, whether by license or otherwise, and requests and authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended).

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

CERTIFICATION

1. By checking Yes, the applicant certifies, that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

☒ Yes ☐ No

2. 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.

Name Brad Moran	Signature 	
Title President	Date 12-26-16	Telephone Number (806) 745 5358

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

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0627), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant

Ramar Communications Inc.

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)



Station License



Direct Measurement of Power

1. Facilities authorized in construction permit					
Call Sign KJTV	File No. of Construction Permit (if applicable) BMP20140724AAN	Frequency (kHz) 950	Hours of Operation Unlimited	Power in kilowatts	
				Night 0.50	Day 5.0
2. Station location					
State TX			City or Town Lubbock		
3. Transmitter location					
State TX	County Lubbock	City or Town Lubbock	Street address (or other identification) 904 E. Broadway		
4. Main studio location					
State TX	County Lubbock	City or Town Lubbock	Street address (or other identification) 9800 University Ave.		
5. Remote control point location (specify only if authorized directional antenna)					
State TX	County Lubbock	City or Town Lubbock	Street address (or other identification) 9800 University Ave.		

6. Has type-approved stereo generating equipment been installed?



Yes



No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68?



Yes



No



Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

Exhibit No.

E-1

8. Operating constants:					
RF common point or antenna current (in amperes) without modulation for night system 3.29			RF common point or antenna current (in amperes) without modulation for day system 10.4		
Measured antenna or common point resistance (in ohms) at operating frequency Night 50.0 Day 50.0			Measured antenna or common point reactance (in ohms) at operating frequency Night -2.4 Day -2.4		
Antenna indications for directional operation					
Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents
	Night	Day	Night	Day	Night Day
1 (SW)	-159.6	-129.5	.866	.778	
2 (NE)	0.0	0.0	1.000	1.000	
Manufacturer and type of antenna monitor: Potomac Instruments 1901-2					

SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator Uniform cross section guyed towers	Overall height in meters of radiator above base insulator, or above base, if grounded. 76.2	Overall height in meters above ground (without obstruction lighting) 76.7	Overall height in meters above ground (include obstruction lighting) 77.7	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. Exhibit No.
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Excitation



Series



Shunt

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude	33 °	34 '	56.25 "	West Longitude	101 °	49 '	32.25 "
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If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.

ENG

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

Exhibit No.

ENG

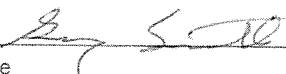
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

None

11. Give reasons for the change in antenna or common point resistance.

No Change

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type) Guy Smith	Signature (check appropriate box below) 	
Address (include ZIP Code) PO Box 3757 Lubbock, TX 79452	Date 12/24/2016	Telephone No. (Include Area Code) (806) 777 0192



Technical Director



Registered Professional Engineer



Chief Operator



Technical Consultant



Other (specify)

Senior RF Engineer

Exhibit E-1

Prepared by Guy Smith in connection with License application for KJTV(AM)

The sampling system at KJTV(AM) consists of identical current transformers in the ATUs supplied and installed by Phasetek and equipped with type N connectors. Two runs of Andrew phase stabilized heliax are run through buried conduit to the transmitter building. The excess sampling line is coiled in a pit near the building. The lines were cut, at the factory, to identical electrical lengths, with factory installed type N connectors on both ends. Two identical type N to UHF adapters connect the lines to the Potomac Instruments 1901-2 antenna monitor.

NOTE: This license application is being filed to cover KJTV's FCC Construction Permit BP-20130726ABJ, as modified by BMP-20140724AAN, granted on December 31, 2013 and March 19, 2015, respectively (the "KJTV CP"). The sole purpose of the KJTV CP was to correct the station's geographic coordinates.

**ENGINEERING STATEMENT CONCERNING
KJTV, 950 KHZ, DA-2
LUBBOCK, TEXAS**

MAY, 2009

PHASETEK INC.
ENGINEERING STATEMENT CONCERNING
KJTV, 950 KHZ, DA-2
LUBBOCK, TEXAS
MAY, 2009

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PHASETEK INC.
ENGINEERING STATEMENT CONCERNING
KJTV, 950 KHZ, DA-2
LUBBOCK, TEXAS
MAY, 2009

MONITOR POINTS

New Monitoring Points have been established for all Radials. It is proposed to conform to current FCC Standards with Monitoring Points at pattern minima. The pattern minima Radials are: 7.5° True and 96.5° True for Day, and 125.5° True and 338.5° True for Night. These are in the best possible locations. All points were checked during adjustment to insure that they properly indicated the radiation on the Radial. Figures 26 – 29 indicate a photo and description for each of the Monitoring Points.

ANALYSIS OF DATA

Computation of the Directional Antenna Radiation pattern was performed by mathematical ratio of Directional and Non-Directional data. The Ground Wave versus Distance Curves, shown in Figure 2, was used to determine Radial conductivities from the Non-Directional data. Unattenuated Fields at 1 kM for all Radials were determined. All tabulated Radials data is that analyzed from the Calculated Ratio method. The values agree within 5% of the Directional values for each Radial by using the Curve Fit method.

MEASURING EQUIPMENT AND PERSONNEL

All Resistance and Reactance measurements were made with a Delta Electronics OIB-3, Operating Impedance Bridge. Before use, tests of known impedances were made to verify operation. All Field Intensity Measurements were made with a Potomac Instruments FIM-41, serial number 2181, calibrated on June 27, 2006 by Potomac Instruments, Silver Spring, Maryland. All measurements were taken by personnel trained and/or supervised by Kurt Gorman of Phasetek Inc.

PHASETEK INC.
ENGINEERING STATEMENT CONCERNING
KJTV, 950 KHZ, DA-2
LUBBOCK, TEXAS
MAY, 2009

SUMMARY

Ramar Communications II, Ltd., licensee of broadcast station KJTV, 950 kHz, DA-2, Lubbock, Texas, has retained the firm of Phasetek Inc. to design and construct the Phasing and Antenna Tuning Units as well as perform the adjustments and measurements of the system after replacement and installation of the new equipment. KJTV utilizes separate patterns for Day and Night modes of operation.

COMMENTS ON FIELD INTENSITY MEASUREMENTS

The KJTV Transmitter site is located in Lubbock, Texas. This area is urban with many power lines, towers, buildings, and a windmill museum. There are at least (12) structures with ASRN numbers within 3.2 km from the KJTV Array. Some of these structures have a Detuning apparatus, many do not. As many clear measurements were performed on each Radial as possible. Due to the structures and power lines, there is significant "scatter" in the measurements. Also, Figure 23 shows the measured Non-Directional pattern which is distorted by the nearby structures.

NON-DIRECTIONAL FIELD INTENSITY MEASUREMENTS

For Non-Directional operation, Tower #1 (SW) was used. All other unused elements were detuned. An Input power of 1.08 kW was used for all Non-Directional measurements. Input exact power was determined by measurement of the Antenna Feed Current with an RF Ammeter, and the Antenna Base Resistance with an operating Impedance Bridge. Tables 1 – 12 show all Field Intensity Measurements that were taken.

DIRECTIONAL ANTENNA SYSTEM MEASUREMENTS

The Day/Night Directional Antenna Systems were adjusted to theoretical parameters. After sampling measurement data, further adjustment was done to provide proper radiation on all Radials. An Input power of 5,400 watts was used for the Daytime pattern, and an Input power of 540 watts was used for the Nighttime pattern. Input powers were determined by measurement of the Common Point Current and Common Point Resistance with installed Delta Electronics CPB-1, Common Point Bridge.

PHASETEK INC.
ENGINEERING STATEMENT CONCERNING
KJTV, 950 KHZ, DA-2
LUBBOCK, TEXAS
MAY, 2009

CONCLUSION

It is believed that the KJTV Antenna System has been constructed and adjusted in accordance with all applicable Commission rules and regulations. The foregoing was prepared on behalf of Ramar Communications II, Ltd., under the immediate supervision of Kurt Gorman, Phasetek Inc., Quakertown, Pennsylvania, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.

By: _____



Kurt Gorman, President
Phasetek Inc.
Quakertown, Pennsylvania

PHASETEK INC.

FIGURE 1
ANTENNA SYSTEM AS ADJUSTED
KJTV, 950 KHZ, DA-2
LUBBOCK, TEXAS
CONTINUED

ANTENNA SYSTEM DESCRIPTION – CONTINUED

4. CONTINUED

NON-DIRECTIONAL OPERATION

Tower # 1 (SW)

Impedance = $43.8 + j 61.3$ Ohms

Current = 4.97 Amperes

Power = 1,080 Watts

DIRECTIONAL DAY OPERATION

Common Point

Impedance = $50.0 - j 2.4$ Ohms

Current = 10.4 Amperes

Power = 5,400 Watts

DIRECTIONAL NIGHT OPERATION

Common Point

Impedance = $50.0 - j 2.4$ Ohms

Current = 3.29 Amperes

Power = 540 Watts

PHASETEK INC.

FIGURE 1
ANTENNA SYSTEM AS ADJUSTED
KJTV, 950 KHZ, DA-2
LUBBOCK, TEXAS
CONTINUED

ANTENNA SYSTEM DESCRIPTION - CONTINUED

4. CONTINUED

DAY MEASURED RADIAL DATA

<u>RADIAL (DEGREES TRUE)</u>	<u>1.08 KW ND mV/m</u>	<u>LOG RATIO DAY/ND</u>	<u>5 KW DA-D mV/m</u>	<u>STANDARD PATTERN mV/m</u>	<u>AUG mV/m</u>
✓ 7.5° MP	334	.5193	173.4	184.6	191.4
✓ 52°	324	.6994	226.6	287.4	
96.5° MP	370	.2848	105.4	184.6	185.2
180°	316	2.8417	898.0	939.1	
232°	296	3.7401	1107.1	1113.9	
280°	302	3.0670	926.2	966.6	

NIGHT MEASURED RADIAL DATA

<u>RADIAL (DEGREES TRUE)</u>	<u>1.08 KW ND mV/m</u>	<u>LOG RATIO NIGHT/ND</u>	<u>0.5 KW DA-N mV/m</u>	<u>STANDARD PATTERN mV/m</u>	<u>AUG mV/m</u>
✓ 52°	324	.6020	195.0	221.7	225.1
- 125.5° MP	339	.1399	47.4	32.0	48.1
180°	316	.7968	251.8	273.4	
232°	296	1.2216	361.6	368.4	
280°	302	.8633	260.7	287.7	
- 338.5° MP	314	.1293	40.6	32.0	49.1

PHASETEK INC.

TABLE 1
7.5 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	DAY Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	630.000	4/6/2009	0948				0.50		
2	600.000	4/6/2009	0950				0.57		
3	455.000	4/6/2009	0955				0.65		
4	310.000	4/6/2009	1008				1.03		
5	140.000	4/6/2009	1012				2.13		
6	137.000	4/6/2009	1015				2.35		
7 MP	114.000	4/6/2009	1137	58.000	4/8/2009	1054	2.59	0.5088	-0.2935
8	105.000	4/6/2009	1142	64.000	4/8/2009	1057	3.08	0.6095	-0.2150
9	87.000	4/6/2009	1147	45.500	4/8/2009	1101	3.33	0.5230	-0.2815
10	86.000	4/6/2009	1151	40.500	4/8/2009	1104	3.86	0.4709	-0.3270
11	78.000	4/6/2009	1159	45.000	4/8/2009	1108	4.36	0.5769	-0.2389
12	53.500	4/6/2009	1203	38.000	4/8/2009	1111	5.01	0.7103	-0.1486
13	39.600	4/6/2009	1206	17.500	4/8/2009	1113	5.57	0.4419	-0.3547
14	37.000	4/6/2009	1210	15.000	4/8/2009	1116	6.00	0.4054	-0.3921
15	48.200	4/6/2009	1214	18.000	4/8/2009	1120	6.79	0.3734	-0.4278
16	41.800	4/6/2009	1219	15.500	4/8/2009	1124	7.64	0.3708	-0.4308
17	34.300	4/6/2009	1224	18.900	4/8/2009	1127	8.42	0.5510	-0.2588
18	32.000	4/6/2009	1303	14.800	4/8/2009	1151	9.25	0.4625	-0.3349
19	28.900	4/6/2009	1253	19.900	4/8/2009	1145	10.90	0.6886	-0.1620
20	23.200	4/6/2009	1247	16.700	4/8/2009	1138	12.50	0.7198	-0.1428
21	13.100	4/6/2009	1318	7.200	4/8/2009	1204	17.40	0.5496	-0.2599

Direct Ratio Average: 0.5308 ✓
Log Ratio Average: 0.5193 ✓

PHASETEK INC.

TABLE 2
52 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	DAY Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	525.000	4/29/2009	0932				0.50		
2	440.000	4/29/2009	0940				0.71		
3	235.000	4/29/2009	0944				1.13		
4	212.000	4/29/2009	0946				1.40		
5	195.000	4/29/2009	0949				1.54		
6	150.000	4/29/2009	0955				1.80		
7	122.000	4/29/2009	1121	108.000	5/1/2009	0829	2.31	0.8852	-0.0529
8	121.000	4/29/2009	1112	107.000	5/1/2009	0834	2.46	0.8843	-0.0534
9	120.000	4/29/2009	1117	100.000	5/1/2009	0836	2.64	0.8333	-0.0792
10	111.000	4/29/2009	1125	93.000	5/1/2009	0839	2.79	0.8378	-0.0768
11	92.000	4/29/2009	1129	49.000	5/1/2009	0844	3.65	0.5326	-0.2736
12	69.000	4/29/2009	1137	34.000	5/1/2009	0851	4.41	0.4928	-0.3074
13	49.900	4/29/2009	1143	22.900	5/1/2009	0902	6.48	0.4589	-0.3383
14	38.700	4/29/2009	1147	20.600	5/1/2009	0857	7.01	0.5323	-0.2738
15	32.500	4/29/2009	1151	23.900	5/1/2009	0907	8.00	0.7354	-0.1335
16	28.100	4/29/2009	1156	18.700	5/1/2009	0911	9.70	0.6655	-0.1769
17	22.600	4/29/2009	1204	17.900	5/1/2009	0917	11.10	0.7920	-0.1013
18	23.500	4/29/2009	1208	16.300	5/1/2009	0921	12.30	0.6936	-0.1589
19	21.800	4/29/2009	1212	13.000	5/1/2009	0924	13.20	0.5963	-0.2245
20	15.900	4/29/2009	1221	13.800	5/1/2009	0934	15.30	0.8679	-0.0615
21	19.300	4/29/2009	1224	15.300	5/1/2009	0937	15.90	0.7927	-0.1009
22	15.100	4/29/2009	1230	12.800	5/1/2009	0929	16.90	0.8477	-0.0718

Direct Ratio Average: 0.7155 ✓
Log Ratio Average: 0.6994 ✓

PHASETEK INC.

TABLE 3
96.5 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	DAY Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	550.000	4/6/2009	1050				0.53		
2	320.000	4/6/2009	1059				0.88		
3	295.000	4/6/2009	1106				1.05		
4	224.000	4/6/2009	1625	127.000	4/8/2009	1331	1.20	0.5670	-0.2464
5	209.000	4/6/2009	1615	72.000	4/8/2009	1336	1.51	0.3445	-0.4628
6	141.000	4/6/2009	1618	43.000	4/8/2009	1342	1.75	0.3050	-0.5158
7 MP	146.000	4/6/2009	1606	53.000	4/8/2009	1345	1.90	0.3630	-0.4401
8	126.000	4/6/2009	1443	46.000	4/8/2009	1349	2.35	0.3651	-0.4376
9	105.000	4/6/2009	1447	47.000	4/8/2009	1352	2.73	0.4476	-0.3491
10	83.500	4/6/2009	1452	40.000	4/8/2009	1356	3.64	0.4790	-0.3196
11	54.500	4/6/2009	1459	24.000	4/8/2009	1359	4.44	0.4404	-0.3562
12	51.500	4/6/2009	1503	13.000	4/8/2009	1402	5.57	0.2524	-0.5979
13	58.000	4/6/2009	1509	18.500	4/8/2009	1407	7.18	0.3190	-0.4963
14	41.800	4/6/2009	1514	5.000	4/8/2009	1417	8.79	0.1196	-0.9222
15	30.200	4/6/2009	1523	7.200	4/8/2009	1424	10.90	0.2384	-0.6227
16	27.900	4/6/2009	1530	5.200	4/8/2009	1430	12.50	0.1864	-0.7296
17	22.400	4/6/2009	1536	2.000	4/8/2009	1435	14.10	0.0893	-1.0492
18	21.200	4/6/2009	1546	4.900	4/8/2009	1443	15.80	0.2311	-0.6361

Direct Ratio Average: 0.3165 ✓
Log Ratio Average: 0.2848 ✓

PHASETEK INC.

TABLE 4
180 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	DAY Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	690.000	4/29/2009	1025				0.45		
2	230.000	4/29/2009	1018				1.22		
3	235.000	4/29/2009	1014				1.40		
4	265.000	4/29/2009	1003				1.54		
5	160.000	4/29/2009	1008				1.70		
6	148.000	4/29/2009	1252	418.000	5/1/2009	1548	1.93	2.8243	0.4509
7	156.000	4/29/2009	1259	442.000	5/1/2009	1544	2.13	2.8333	0.4523
8	131.000	4/29/2009	1303	375.000	5/1/2009	1552	2.37	2.8626	0.4568
9	108.000	4/29/2009	1308	300.000	5/1/2009	1557	2.73	2.7778	0.4437
10	64.000	4/29/2009	1312	177.000	5/1/2009	1600	2.98	2.7656	0.4418
11	90.500	4/29/2009	1318	248.000	5/1/2009	1605	3.36	2.7403	0.4378
12	70.500	4/29/2009	1322	176.000	5/1/2009	1611	3.78	2.4965	0.3973
13	64.000	4/29/2009	1355	184.000	5/1/2009	1618	4.55	2.8750	0.4586
14	50.500	4/29/2009	1403	145.000	5/1/2009	1625	5.34	2.8713	0.4581
15	38.900	4/29/2009	1411	110.000	5/1/2009	1636	6.18	2.8278	0.4514
16	37.000	4/29/2009	1418	108.000	5/1/2009	1640	6.98	2.9189	0.4652
17	29.700	4/29/2009	1424	90.500	5/1/2009	1646	8.59	3.0471	0.4839
18	25.000	4/29/2009	1430	77.500	5/1/2009	1652	10.20	3.1000	0.4914
19	20.000	4/29/2009	1436	57.000	5/1/2009	1659	11.80	2.8500	0.4548
20	17.700	4/29/2009	1447	51.000	5/1/2009	1714	15.00	2.8814	0.4596

Direct Ratio Average: 2.8448 ✓
Log Ratio Average: 2.8417 ✓

PHASETEK INC.

TABLE 5
232 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	DAY Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	472.000	4/29/2009	1033				0.61		
2	321.000	4/29/2009	1038				0.86		
3	219.000	4/29/2009	1044				1.02		
4	188.000	4/29/2009	1056				1.47		
5	121.000	4/29/2009	1709	442.000	5/1/2009	1223	2.04	3.6529	0.5626
6	104.000	4/29/2009	1703	377.000	5/1/2009	1229	2.33	3.6250	0.5593
7	101.000	4/29/2009	1657	365.000	5/1/2009	1232	2.63	3.6139	0.5580
8	64.000	4/29/2009	1651	225.000	5/1/2009	1235	2.96	3.5156	0.5460
9	77.000	4/29/2009	1648	289.000	5/1/2009	1239	3.13	3.7532	0.5744
10	84.000	4/29/2009	1643	299.000	5/1/2009	1243	3.36	3.5595	0.5514
11	55.000	4/29/2009	1630	189.000	5/1/2009	1248	4.42	3.4364	0.5361
12	49.800	4/29/2009	1624	188.000	5/1/2009	1252	5.03	3.7751	0.5769
13	39.200	4/29/2009	1613	151.000	5/1/2009	1258	5.98	3.8520	0.5857
14	34.800	4/29/2009	1604	136.000	5/1/2009	1304	7.07	3.9080	0.5920
15	27.200	4/29/2009	1555	111.000	5/1/2009	1311	8.34	4.0809	0.6108
16	25.000	4/29/2009	1548	100.000	5/1/2009	1315	9.10	4.0000	0.6021
17	19.900	4/29/2009	1539				9.86		
18	22.400	4/29/2009	1529	91.500	5/1/2009	1329	11.70	4.0848	0.6112
19	17.100	4/29/2009	1521	63.000	5/1/2009	1336	13.80	3.6842	0.5663
20	11.800	4/29/2009	1514	42.900	5/1/2009	1343	15.80	3.6356	0.5606

Direct Ratio Average: 3.7451 ✓
Log Ratio Average: 3.7401 ✓

PHASETEK INC.

TABLE 6
280 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	DAY Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	620.000	4/29/2009	0902				0.45		
2	515.000	4/29/2009	0905				0.56		
3	295.000	4/29/2009	0910				0.76		
4	199.000	4/29/2009	0916				1.38		
5	166.000	4/29/2009	0919				1.51		
6	80.000	4/29/2009	1725	250.000	5/1/2009	1530	2.76	3.1250	0.4949
7	69.000	4/29/2009	1729	205.000	5/1/2009	1527	2.83	2.9710	0.4729
8	74.500	4/29/2009	1734	226.000	5/1/2009	1524	3.00	3.0336	0.4820
9	86.000	4/29/2009	1738	256.000	5/1/2009	1522	3.28	2.9767	0.4737
10	65.000	4/29/2009	1742	200.000	5/1/2009	1518	3.87	3.0769	0.4881
11	60.500	4/29/2009	1750	180.000	5/1/2009	1513	4.54	2.9752	0.4735
12	38.200	4/29/2009	1758	111.000	5/1/2009	1505	5.71	2.9058	0.4633
13	21.000	4/29/2009	1804	68.000	5/1/2009	1459	6.70	3.2381	0.5103
14	37.000	4/29/2009	1808	120.000	5/1/2009	1454	7.47	3.2432	0.5110
15	29.000	4/29/2009	1815	90.500	5/1/2009	1449	8.52	3.1207	0.4943
16	29.000	4/29/2009	1819	90.000	5/1/2009	1445	8.88	3.1034	0.4918
17	28.300	4/29/2009	1830	89.500	5/1/2009	1436	9.70	3.1625	0.5000
18	24.000	4/29/2009	1836	73.000	5/1/2009	1431	10.60	3.0417	0.4831
19	27.000	4/29/2009	1841	84.000	5/1/2009	1429	10.80	3.1111	0.4929
20	15.200	4/29/2009	1850	47.000	5/1/2009	1409	14.00	3.0921	0.4903
21	13.700	4/29/2009	1855	40.000	5/1/2009	1416	15.70	2.9197	0.4653

Direct Ratio Average: 3.0686 ✓
Log Ratio Average: 3.0670 ✓

PHASETEK INC.

TABLE 7
52 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	NIGHT Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	525.000	4/29/2009	0932				0.50		
2	440.000	4/29/2009	0940				0.71		
3	235.000	4/29/2009	0944				1.13		
4	212.000	4/29/2009	0946				1.40		
5	195.000	4/29/2009	0949				1.54		
6	150.000	4/29/2009	0955				1.80		
7	122.000	4/29/2009	1121	85.000	4/30/2009	1829	2.31	0.6967	-0.1569
8	121.000	4/29/2009	1112	84.000	4/30/2009	1827	2.46	0.6942	-0.1585
9	120.000	4/29/2009	1117	81.000	4/30/2009	1825	2.64	0.6750	-0.1707
10	111.000	4/29/2009	1125	72.500	4/30/2009	1821	2.79	0.6532	-0.1850
11	92.000	4/29/2009	1129	50.000	4/30/2009	1817	3.65	0.5435	-0.2648
12	69.000	4/29/2009	1137	36.500	4/30/2009	1810	4.41	0.5290	-0.2766
13	49.900	4/29/2009	1143	24.900	4/30/2009	1801	6.48	0.4990	-0.3019
14	38.700	4/29/2009	1147	20.000	4/30/2009	1758	7.01	0.5168	-0.2867
15	32.500	4/29/2009	1151	19.500	4/30/2009	1712	8.00	0.6000	-0.2218
16	28.100	4/29/2009	1156	16.800	4/30/2009	1717	9.70	0.5979	-0.2234
17	22.600	4/29/2009	1204	13.500	4/30/2009	1723	11.10	0.5973	-0.2238
18	23.500	4/29/2009	1208	13.700	4/30/2009	1727	12.30	0.5830	-0.2343
19	21.800	4/29/2009	1212	11.200	4/30/2009	1731	13.20	0.5138	-0.2892
20	15.900	4/29/2009	1221	10.700	4/30/2009	1739	15.30	0.6730	-0.1720
21	19.300	4/29/2009	1224	12.700	4/30/2009	1742	15.90	0.6580	-0.1818
22	15.100	4/29/2009	1230	10.000	4/30/2009	1747	16.90	0.6623	-0.1790

Direct Ratio Average: 0.6058 ✓
Log Ratio Average: 0.6020 ✓

PHASETEK INC.

TABLE 8
125.5 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	NIGHT Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	700.000	4/6/2009	1025				0.45		
2	620.000	4/6/2009	1031				0.50		
3	460.000	4/6/2009	1037				0.70		
4	248.000	4/6/2009	1634	37.000	4/9/2009	1105	1.06	0.1492	-0.8262
5	166.000	4/6/2009	1638	25.000	4/9/2009	1108	1.73	0.1506	-0.8222
6	125.000	4/6/2009	1642	17.000	4/9/2009	1111	2.12	0.1360	-0.8665
7 MP	120.000	4/6/2009	1649	18.500	4/9/2009	1113	2.61	0.1542	-0.8120
8	72.000	4/7/2009	1033	11.300	4/9/2009	1124	4.31	0.1569	-0.8043
9	38.000	4/7/2009	1044	5.400	4/9/2009	1133	6.59	0.1421	-0.8474
10	38.500	4/7/2009	1051	5.200	4/9/2009	1139	8.41	0.1351	-0.8695
11	31.000	4/7/2009	1056	3.700	4/9/2009	1143	9.01	0.1194	-0.9232
12	31.500	4/7/2009	1105	4.500	4/9/2009	1156	11.20	0.1429	-0.8451
13	26.000	4/7/2009	1110	4.000	4/9/2009	1201	11.90	0.1538	-0.8129
14	23.500	4/7/2009	1114	3.700	4/9/2009	1204	12.60	0.1574	-0.8029
15	25.000	4/7/2009	1120	2.800	4/9/2009	1208	13.10	0.1120	-0.9508
16	22.500	4/7/2009	1124	3.300	4/9/2009	1210	13.30	0.1467	-0.8337
17	20.000	4/7/2009	1131	2.900	4/9/2009	1216	15.30	0.1450	-0.8386
18	19.000	4/7/2009	1135	2.100	4/9/2009	1219	16.00	0.1105	-0.9565

Direct Ratio Average: 0.1408 ✓
Log Ratio Average: 0.1399 ✓

PHASETEK INC.

TABLE 9
180 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	NIGHT Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	690.000	4/29/2009	1025				0.45		
2	230.000	4/29/2009	1018				1.22		
3	235.000	4/29/2009	1014				1.40		
4	265.000	4/29/2009	1003				1.54		
5	160.000	4/29/2009	1008				1.70		
6	148.000	4/29/2009	1252	115.000	4/30/2009	1335	1.93	0.7770	-0.1096
7	156.000	4/29/2009	1259	122.000	4/30/2009	1331	2.13	0.7821	-0.1068
8	131.000	4/29/2009	1303	106.000	4/30/2009	1341	2.37	0.8092	-0.0920
9	108.000	4/29/2009	1308	86.000	4/30/2009	1346	2.73	0.7963	-0.0989
10	64.000	4/29/2009	1312	50.500	4/30/2009	1350	2.98	0.7891	-0.1029
11	90.500	4/29/2009	1318	72.000	4/30/2009	1359	3.36	0.7956	-0.0993
12	70.500	4/29/2009	1322	50.000	4/30/2009	1405	3.78	0.7092	-0.1492
13	64.000	4/29/2009	1355	54.500	4/30/2009	1410	4.55	0.8516	-0.0698
14	50.500	4/29/2009	1403	41.500	4/30/2009	1419	5.34	0.8218	-0.0852
15	38.900	4/29/2009	1411	31.000	4/30/2009	1428	6.18	0.7969	-0.0986
16	37.000	4/29/2009	1418	29.100	4/30/2009	1432	6.98	0.7865	-0.1043
17	29.700	4/29/2009	1424	24.800	4/30/2009	1439	8.59	0.8350	-0.0783
18	25.000	4/29/2009	1430	21.000	4/30/2009	1446	10.20	0.8400	-0.0757
19	20.000	4/29/2009	1436	15.400	4/30/2009	1452	11.80	0.7700	-0.1135
20	17.700	4/29/2009	1447	14.200	4/30/2009	1503	15.00	0.8023	-0.0957

Direct Ratio Average: 0.7975 ✓
Log Ratio Average: 0.7968 ✓

PHASETEK INC.

TABLE 10
232 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	NIGHT Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	472.000	4/29/2009	1033				0.61		
2	321.000	4/29/2009	1038				0.86		
3	219.000	4/29/2009	1044				1.02		
4	188.000	4/29/2009	1056				1.47		
5	121.000	4/29/2009	1709	143.000	4/30/2009	1309	2.04	1.1818	0.0726
6	104.000	4/29/2009	1703	124.000	4/30/2009	1305	2.33	1.1923	0.0764
7	101.000	4/29/2009	1657	119.000	4/30/2009	1300	2.63	1.1782	0.0712
8	64.000	4/29/2009	1651	77.500	4/30/2009	1256	2.96	1.2109	0.0831
9	77.000	4/29/2009	1648	96.000	4/30/2009	1253	3.13	1.2468	0.0958
10	84.000	4/29/2009	1643	98.000	4/30/2009	1249	3.36	1.1667	0.0669
11	55.000	4/29/2009	1630	64.000	4/30/2009	1243	4.42	1.1636	0.0658
12	49.800	4/29/2009	1624	64.000	4/30/2009	1238	5.03	1.2851	0.1090
13	39.200	4/29/2009	1613	50.500	4/30/2009	1232	5.98	1.2883	0.1100
14	34.800	4/29/2009	1604	45.000	4/30/2009	1226	7.07	1.2931	0.1116
15	27.200	4/29/2009	1555	35.000	4/30/2009	1220	8.34	1.2868	0.1095
16	25.000	4/29/2009	1548	32.000	4/30/2009	1216	9.10	1.2800	0.1072
17	19.900	4/29/2009	1539				9.86		
18	22.400	4/29/2009	1529	28.100	4/30/2009	1157	11.70	1.2545	0.0985
19	17.100	4/29/2009	1521	19.700	4/30/2009	1149	13.80	1.1520	0.0615
20	11.800	4/29/2009	1514	13.700	4/30/2009	1140	15.80	1.1610	0.0648

Direct Ratio Average: 1.2227 /
Log Ratio Average: 1.2216 /

PHASETEK INC.

TABLE 11
280 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	NIGHT Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	620.000	4/29/2009	0902				0.45		
2	515.000	4/29/2009	0905				0.56		
3	295.000	4/29/2009	0910				0.76		
4	199.000	4/29/2009	0916				1.38		
5	166.000	4/29/2009	0919				1.51		
6	80.000	4/29/2009	1725	74.000	4/30/2009	1008	2.76	0.9250	-0.0339
7	69.000	4/29/2009	1729	60.000	4/30/2009	1004	2.83	0.8696	-0.0607
8	74.500	4/29/2009	1734	67.000	4/30/2009	1011	3.00	0.8993	-0.0461
9	86.000	4/29/2009	1738	76.000	4/30/2009	1013	3.28	0.8837	-0.0537
10	65.000	4/29/2009	1742	50.000	4/30/2009	1017	3.87	0.7692	-0.1139
11	60.500	4/29/2009	1750	52.000	4/30/2009	1022	4.54	0.8595	-0.0658
12	38.200	4/29/2009	1758	31.200	4/30/2009	1028	5.71	0.8168	-0.0879
13	21.000	4/29/2009	1804	18.900	4/30/2009	1033	6.70	0.9000	-0.0458
14	37.000	4/29/2009	1808	32.000	4/30/2009	1037	7.47	0.8649	-0.0631
15	29.000	4/29/2009	1815	25.100	4/30/2009	1042	8.52	0.8655	-0.0627
16	29.000	4/29/2009	1819	24.800	4/30/2009	1046	8.88	0.8552	-0.0679
17	28.300	4/29/2009	1830	24.900	4/30/2009	1055	9.70	0.8799	-0.0556
18	24.000	4/29/2009	1836	20.400	4/30/2009	1101	10.60	0.8500	-0.0706
19	27.000	4/29/2009	1841	23.400	4/30/2009	1104	10.80	0.8667	-0.0621
20	15.200	4/29/2009	1850	13.500	4/30/2009	1112	14.00	0.8882	-0.0515
21	13.700	4/29/2009	1855	11.400	4/30/2009	1120	15.70	0.8321	-0.0798

Direct Ratio Average: 0.8641 ✓
Log Ratio Average: 0.8633 ✓

PHASETEK INC.

TABLE 12
338.5 DEGREE RADIAL
FIELD INTENSITY MEASUREMENTS
KJTV 950 KHZ

Point #	mV/m	NDA Date	Time	mV/m	NIGHT Date	Time	Distance (km)	Direct Ratio	Log Ratio
1	535.000	4/7/2009	0951				0.50		
2	389.000	4/7/2009	0959				0.80		
3	239.000	4/7/2009	1002				1.20		
4	175.000	4/7/2009	1008				1.65		
5	157.000	4/7/2009	1019				1.78		
6	159.000	4/7/2009	1328	20.000	4/9/2009	1302	1.96	0.1258	-0.9004
7	115.000	4/7/2009	1320	15.000	4/9/2009	1309	2.31	0.1304	-0.8846
8	105.000	4/7/2009	1311	13.600	4/9/2009	1256	2.55	0.1295	-0.8877
9	100.000	4/7/2009	1304	11.200	4/9/2009	1252	3.15	0.1120	-0.9508
10	45.500	4/7/2009	1258	9.500	4/9/2009	1248	4.10	0.2088	-0.6803
11	45.000	4/7/2009	1348	4.100	4/9/2009	1327	4.63	0.0911	-1.0404
12	54.000	4/7/2009	1354	4.200	4/9/2009	1323	5.09	0.0778	-1.1091
13 MP	51.000	4/7/2009	1358	6.300	4/9/2009	1319	5.28	0.1235	-0.9082
14	41.500	4/7/2009	1417	6.000	4/9/2009	1335	6.40	0.1446	-0.8399
15	30.500	4/7/2009	1429	6.100	4/9/2009	1339	7.41	0.2000	-0.6990
16	32.000	4/7/2009	1424	4.100	4/9/2009	1342	8.15	0.1281	-0.8924
17	18.000	4/7/2009	1436	3.100	4/9/2009	1348	11.10	0.1722	-0.7639
18	19.200	4/7/2009	1441	2.600	4/9/2009	1350	11.40	0.1354	-0.8683
19	17.000	4/7/2009	1447	2.100	4/9/2009	1355	13.30	0.1235	-0.9082
20	14.000	4/7/2009	1452	1.420	4/9/2009	1400	15.40	0.1014	-0.9938

Direct Ratio Average: 0.1336 ✓
Log Ratio Average: 0.1293 ✓

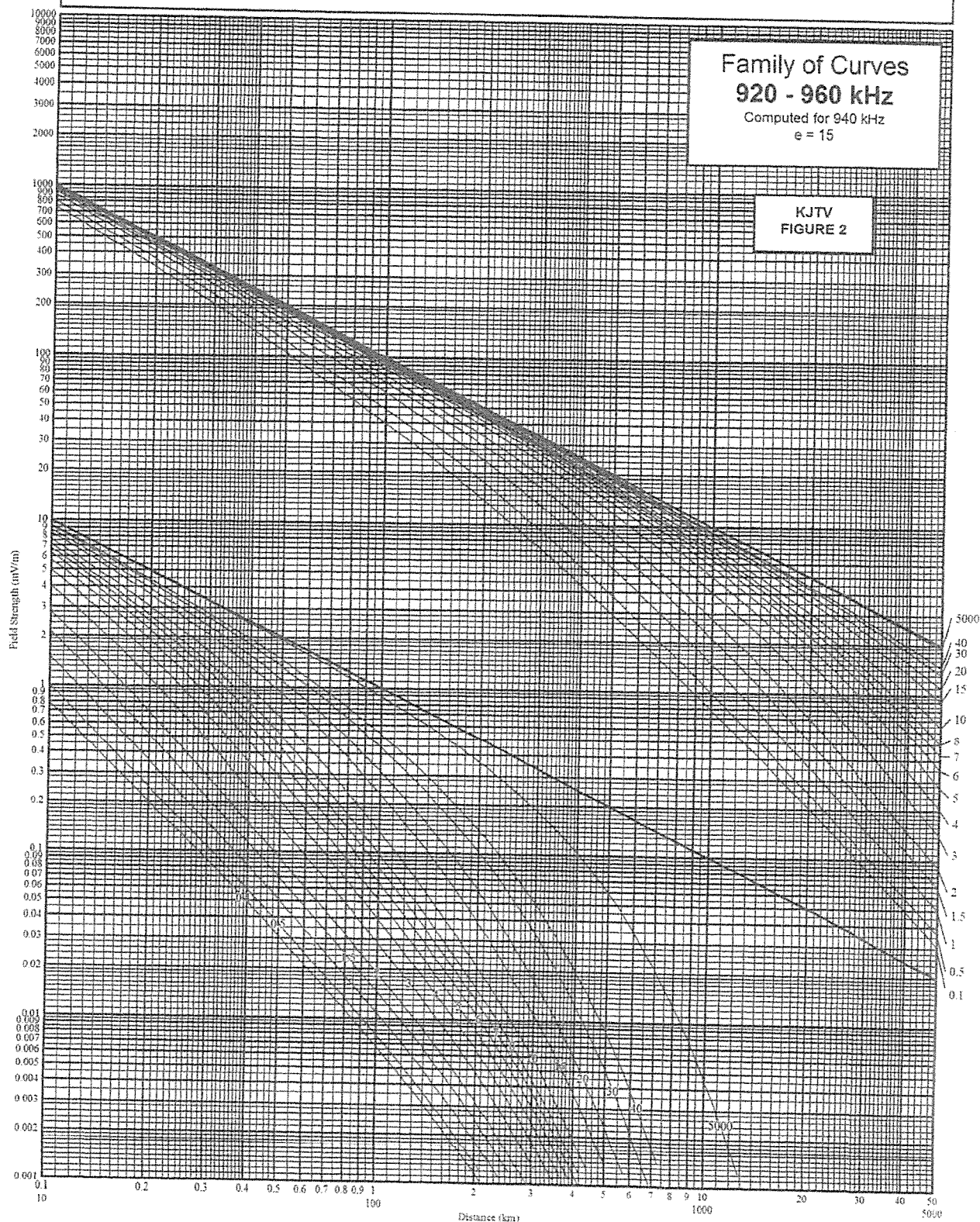
Groundwave Field Strength vs. Distance

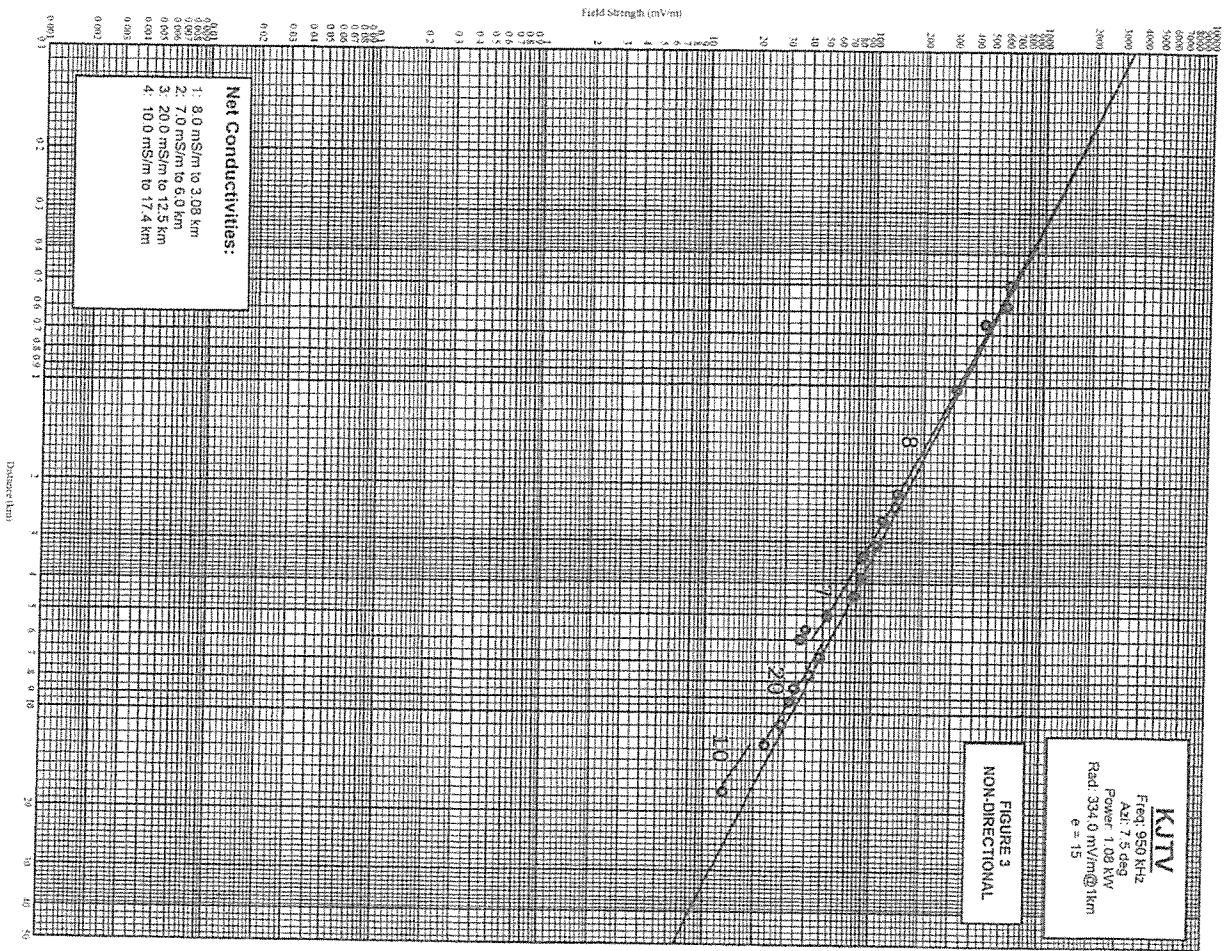
Inverse Distance Field: 100.0 mV/m@1km

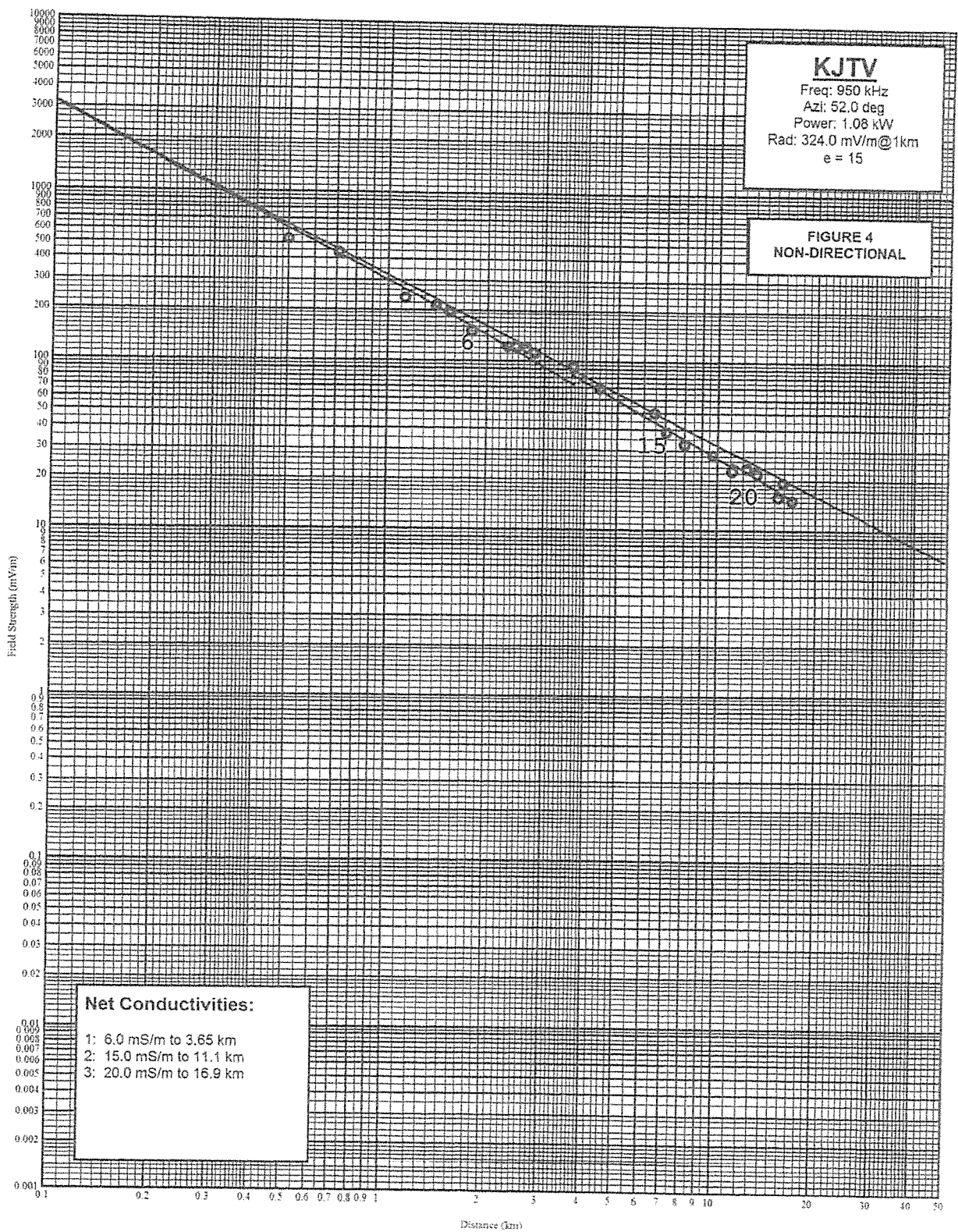
Family of Curves
920 - 960 kHz

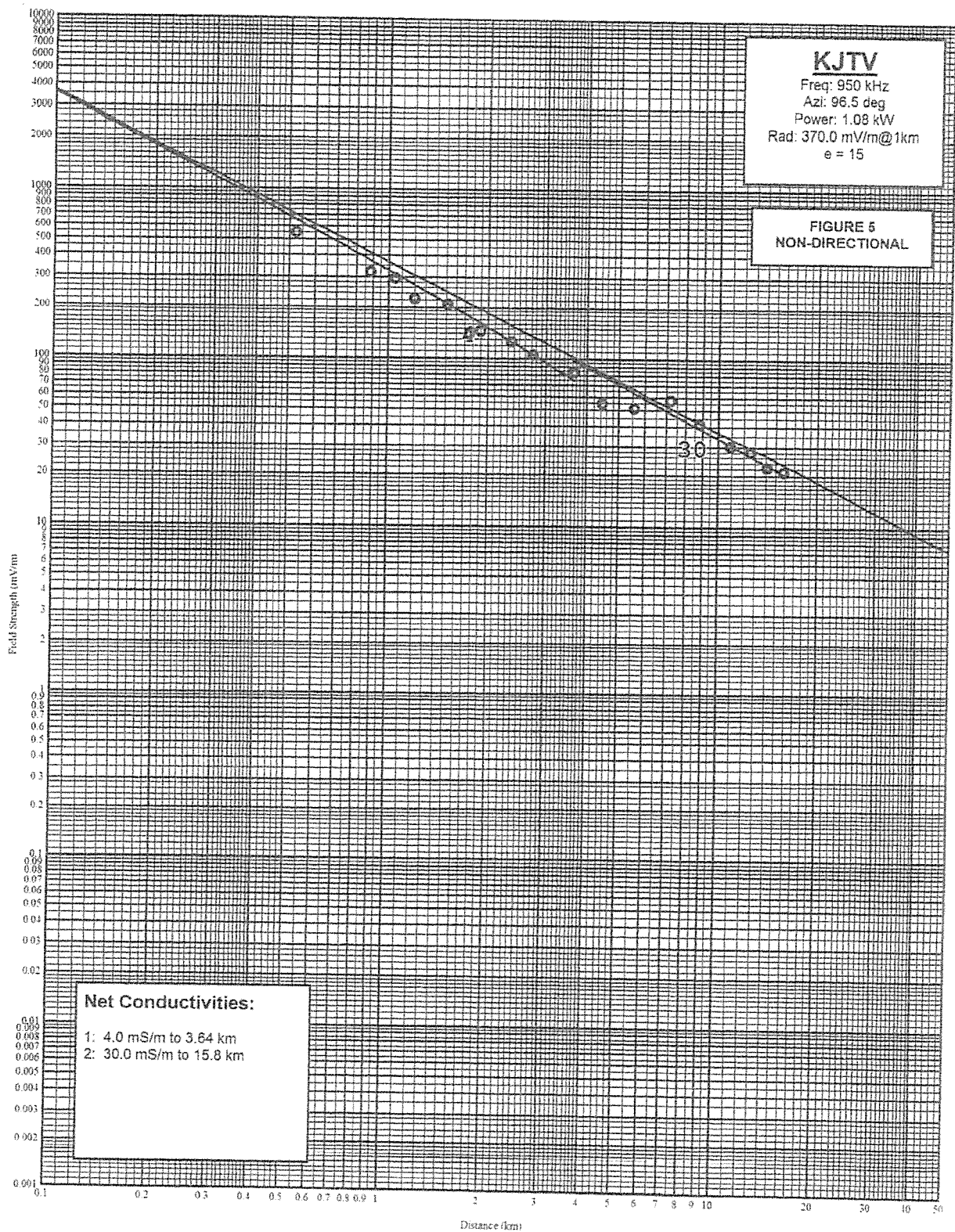
Computed for 940 kHz
 $\epsilon = 15$

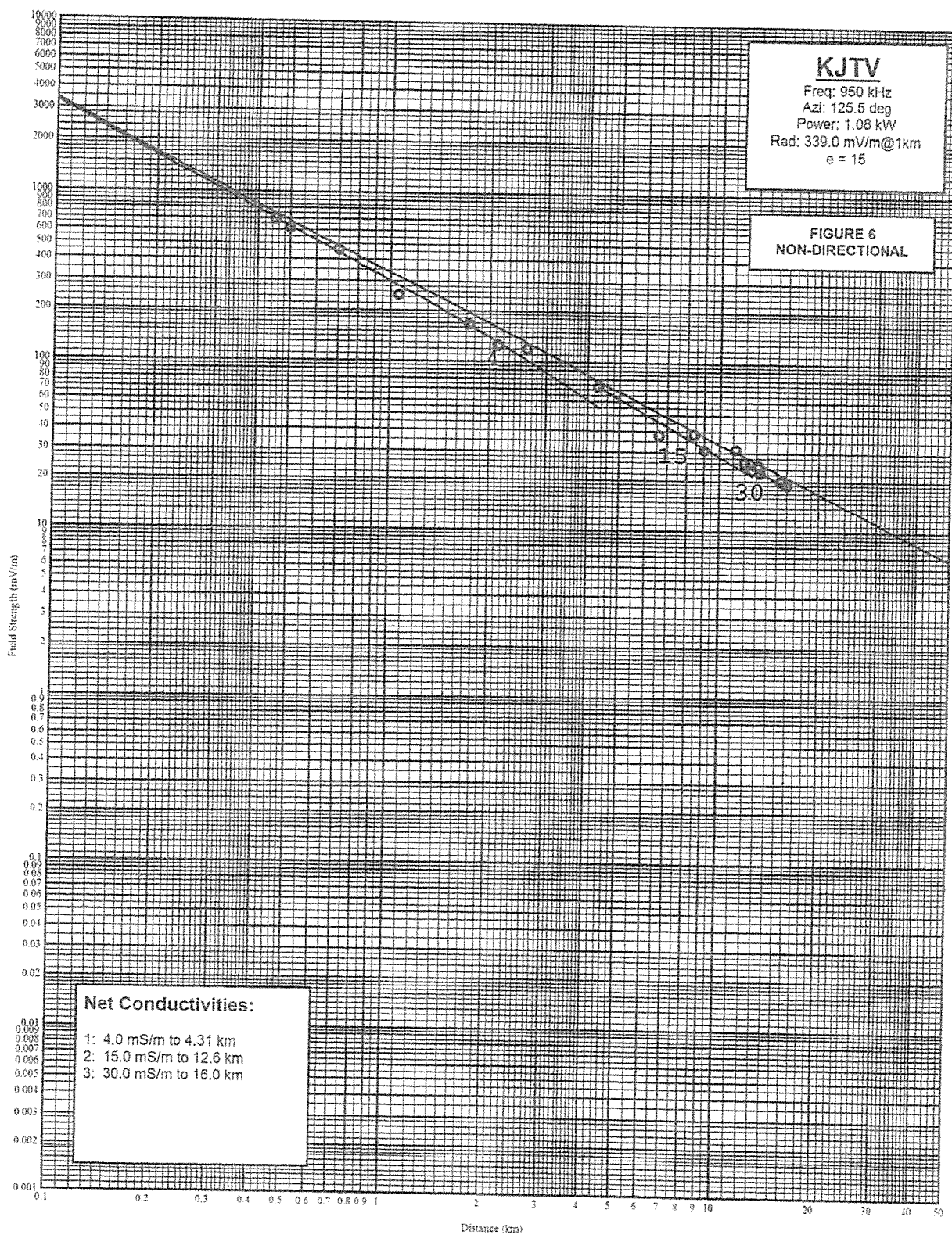
KJTV
FIGURE 2

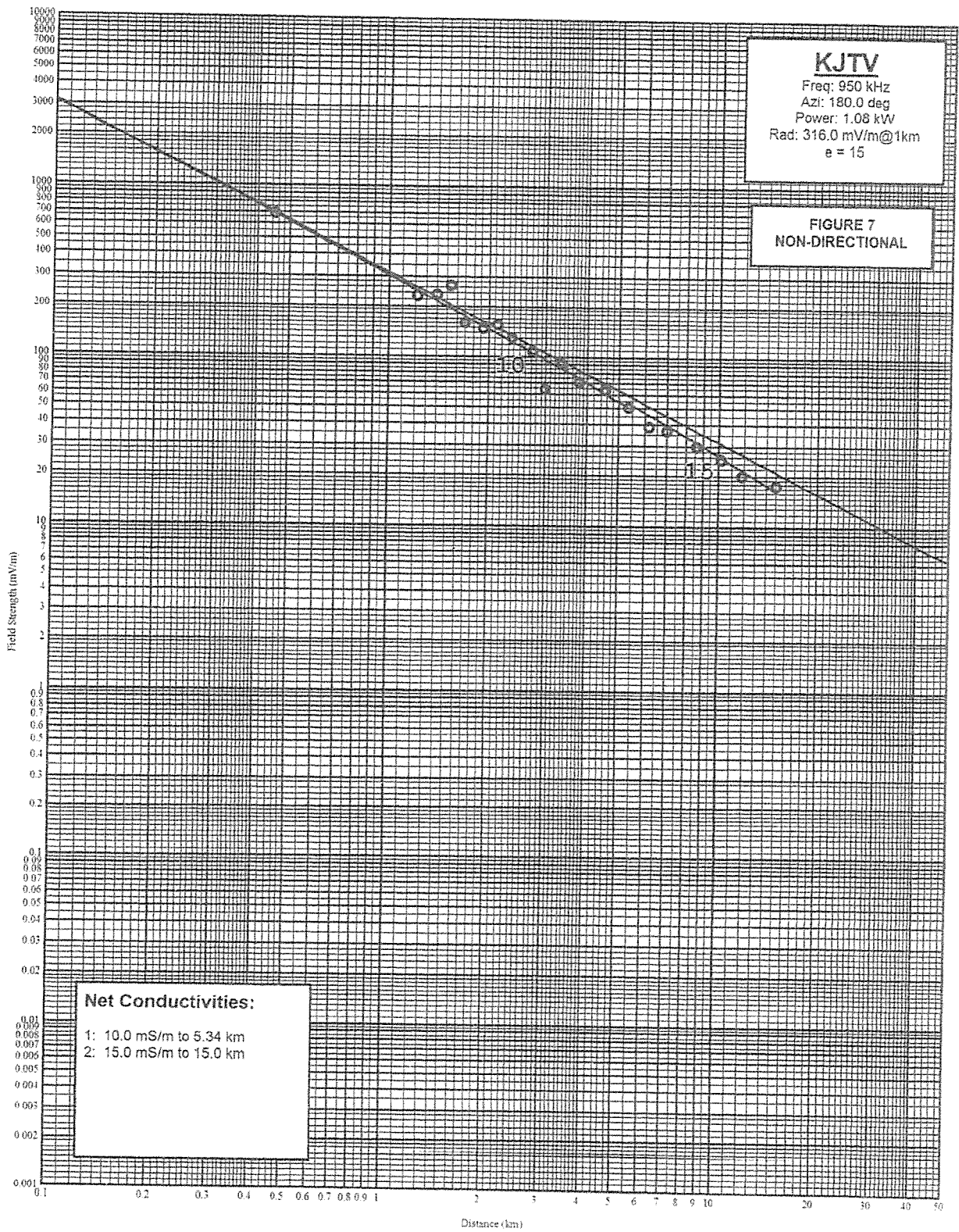


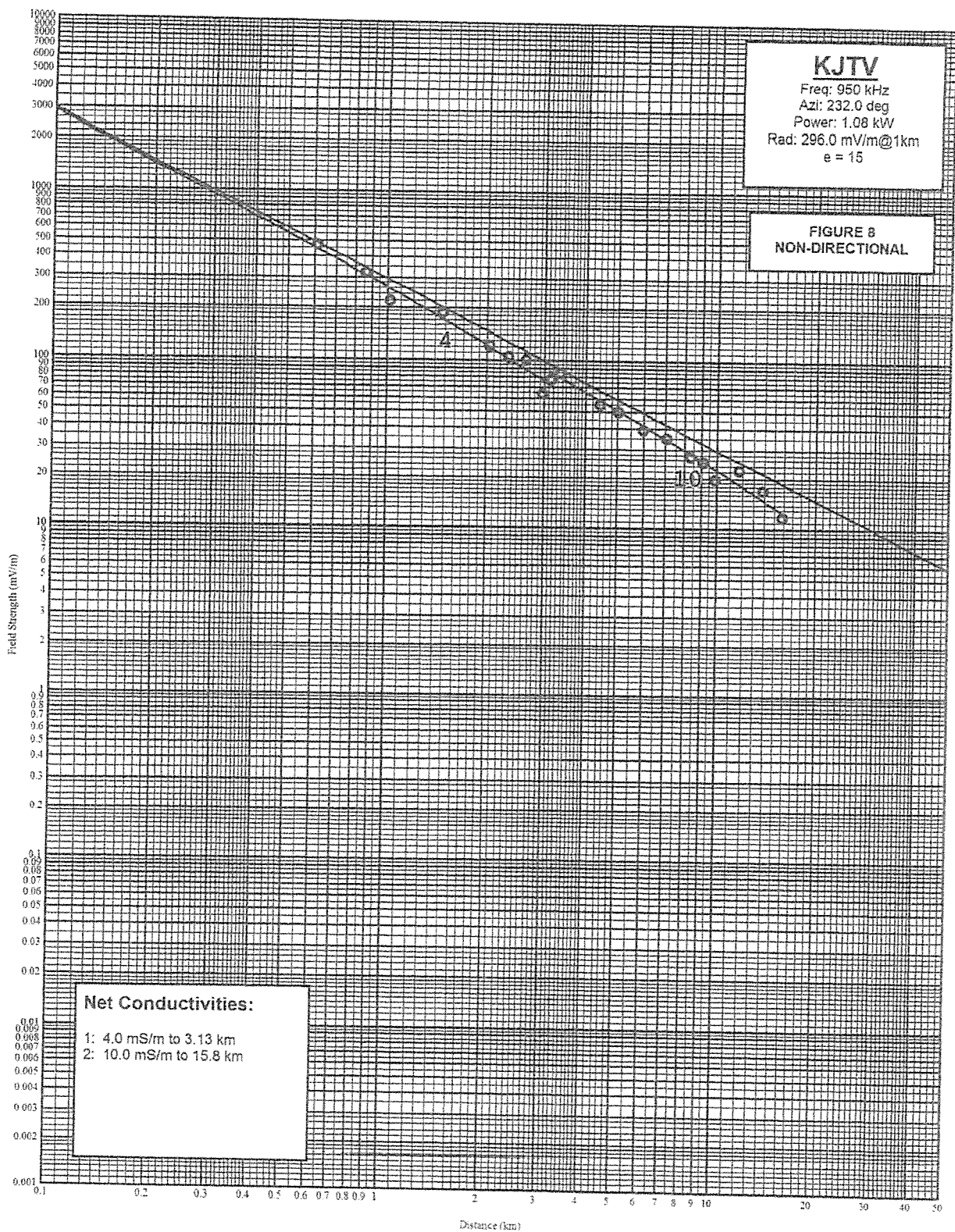


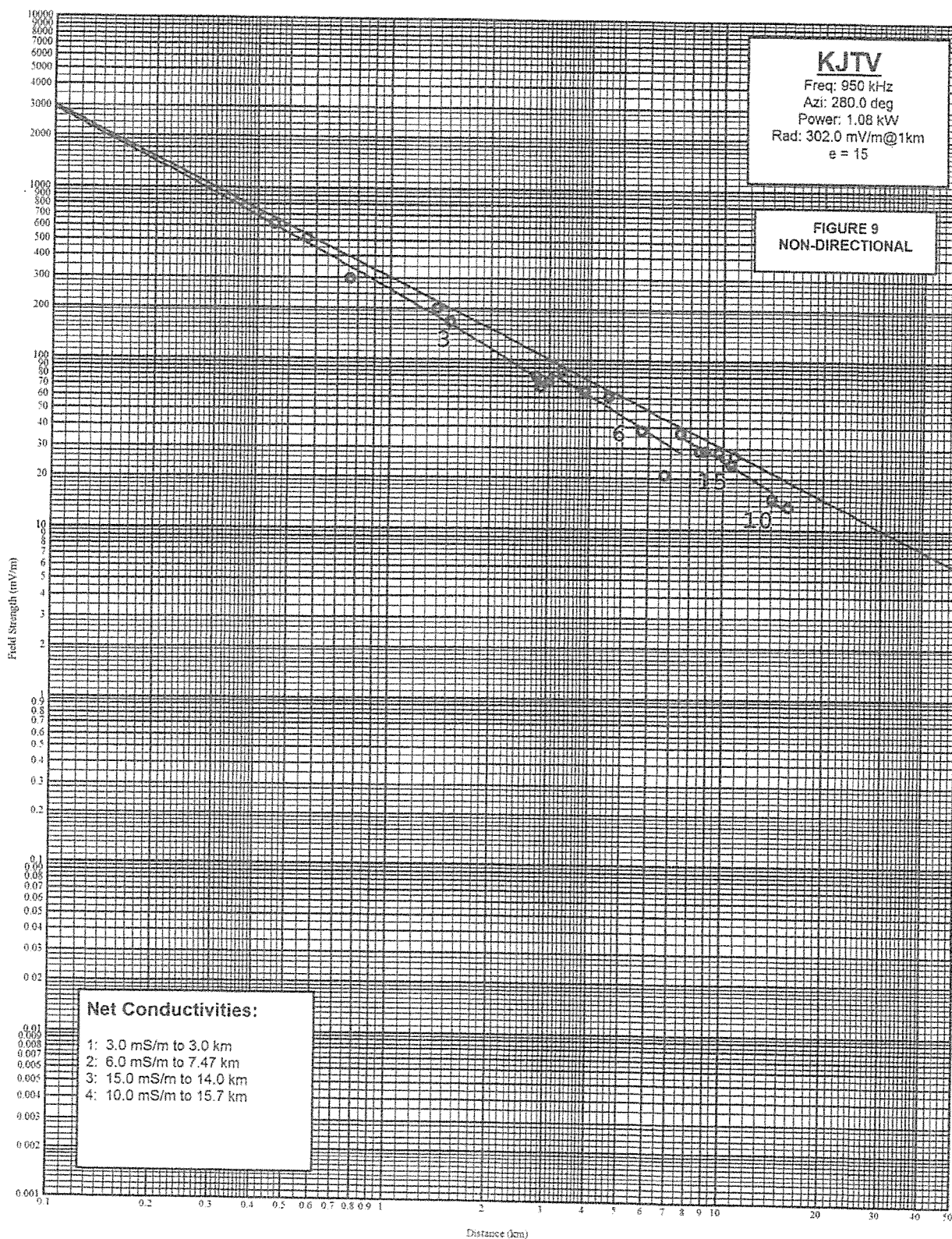


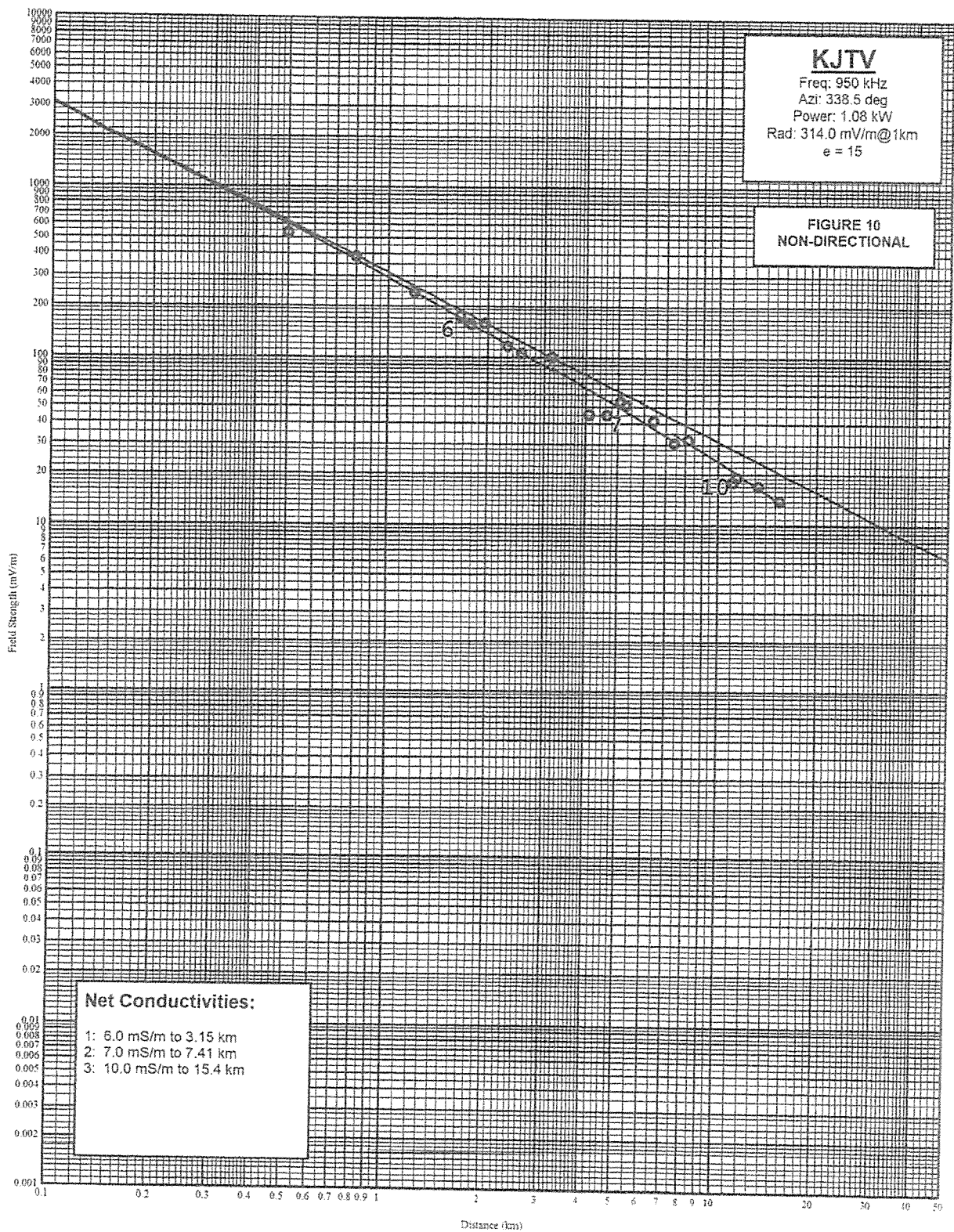


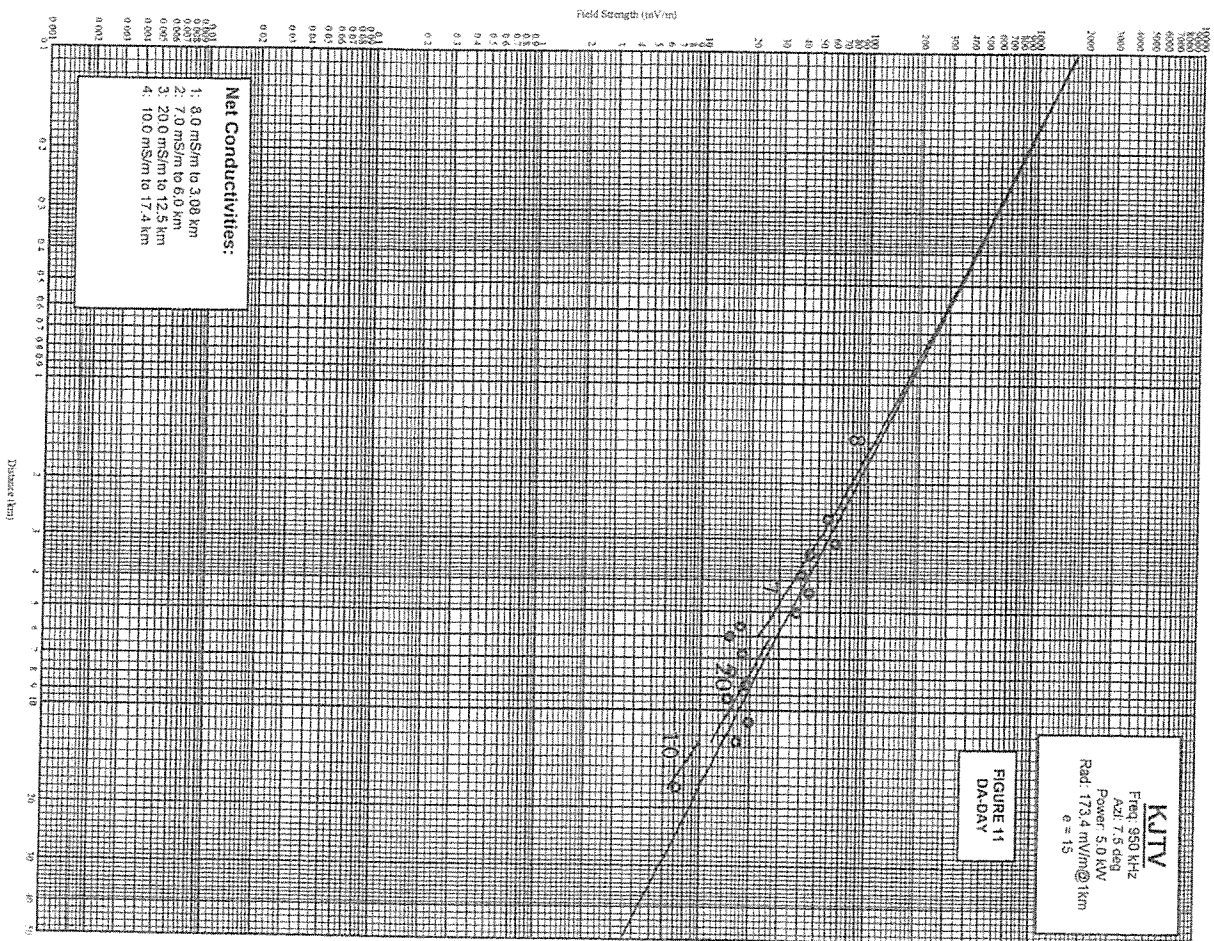


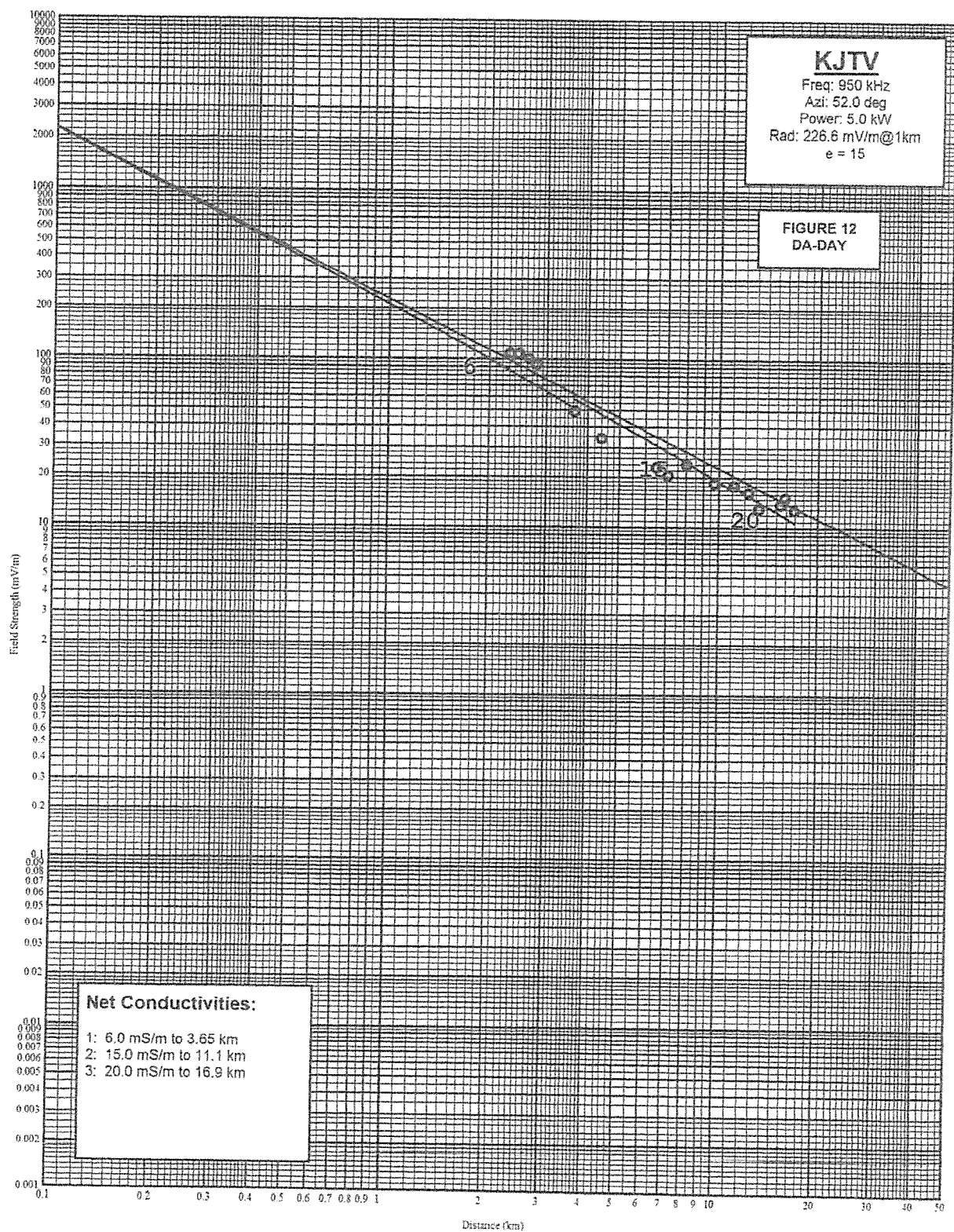


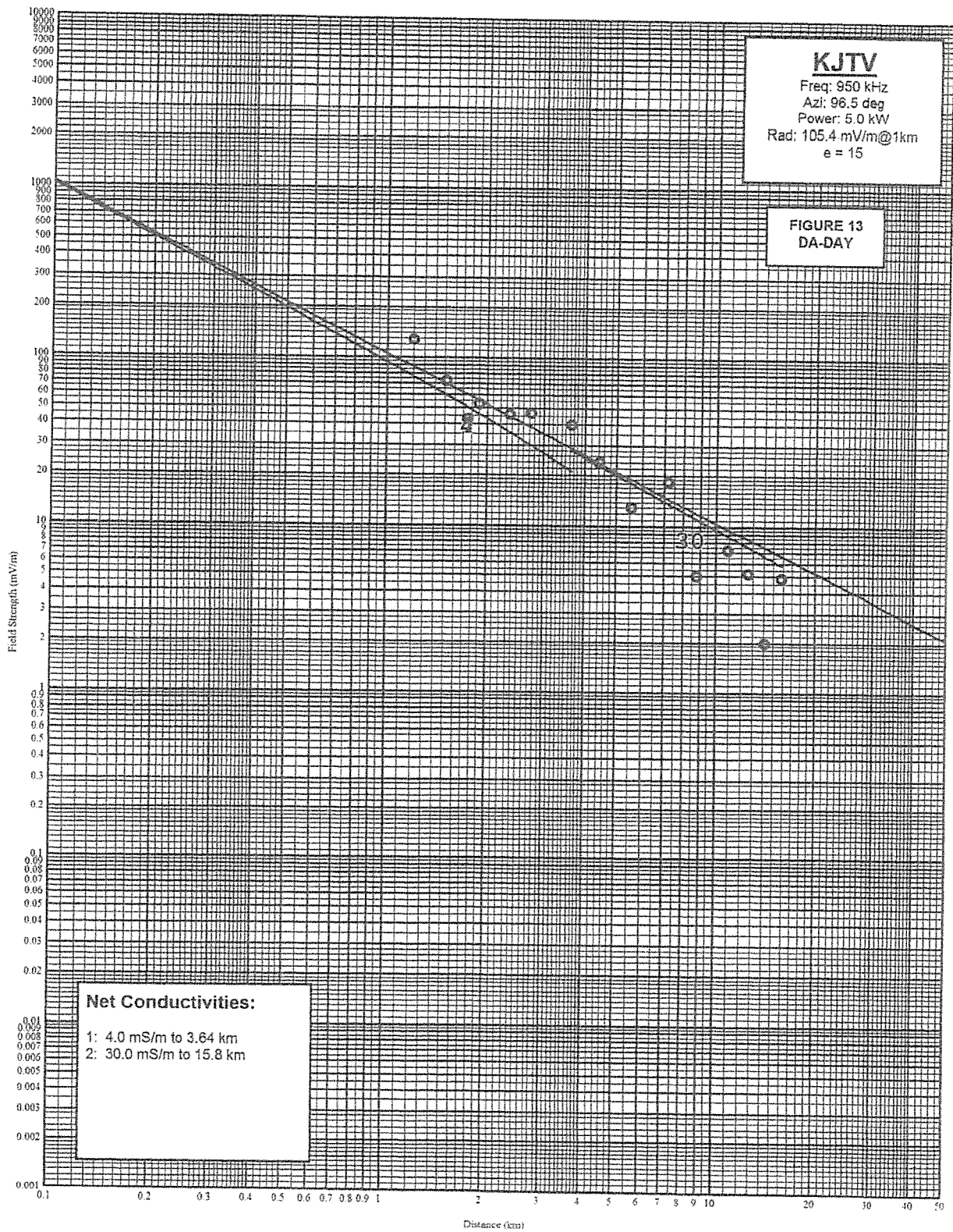


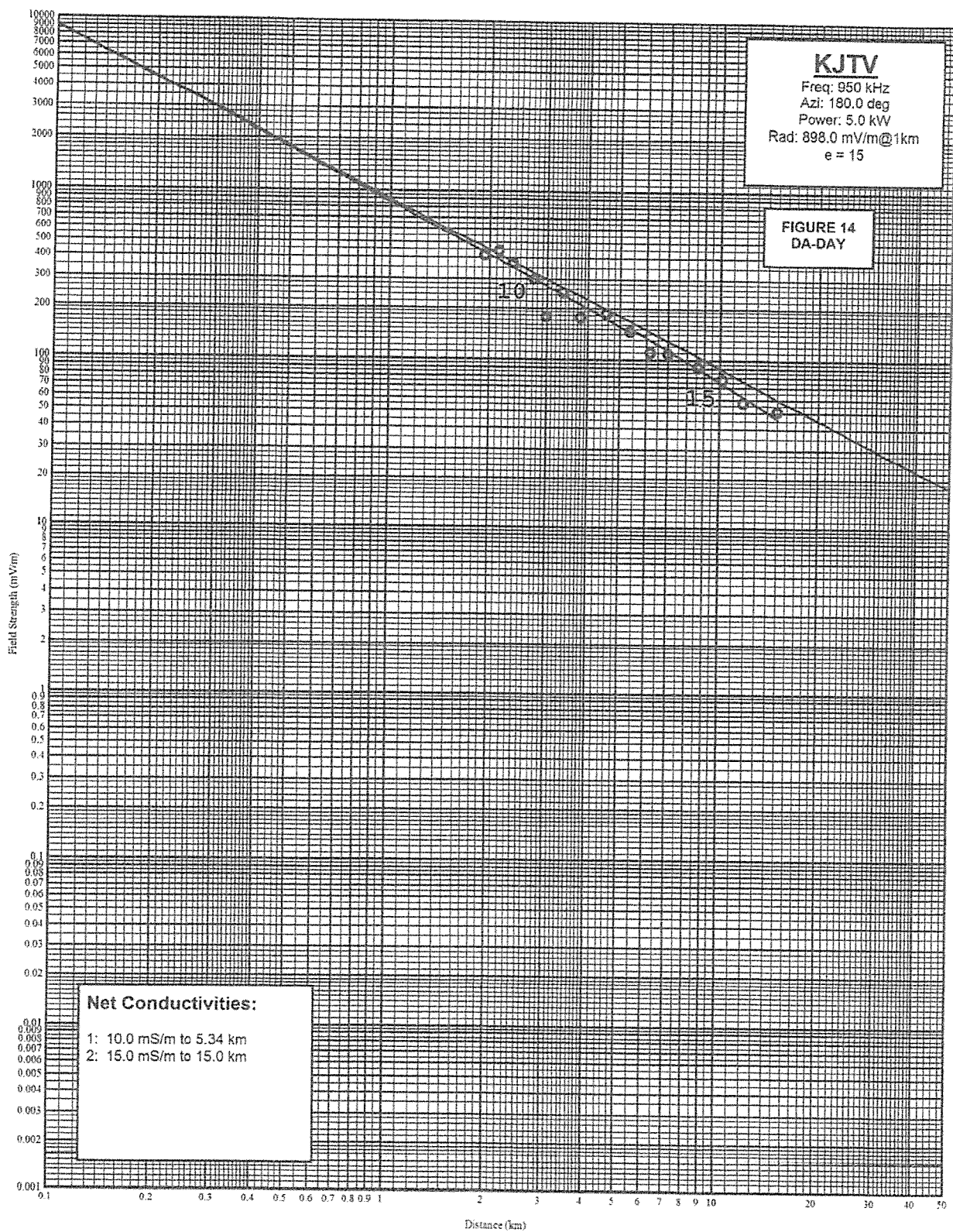


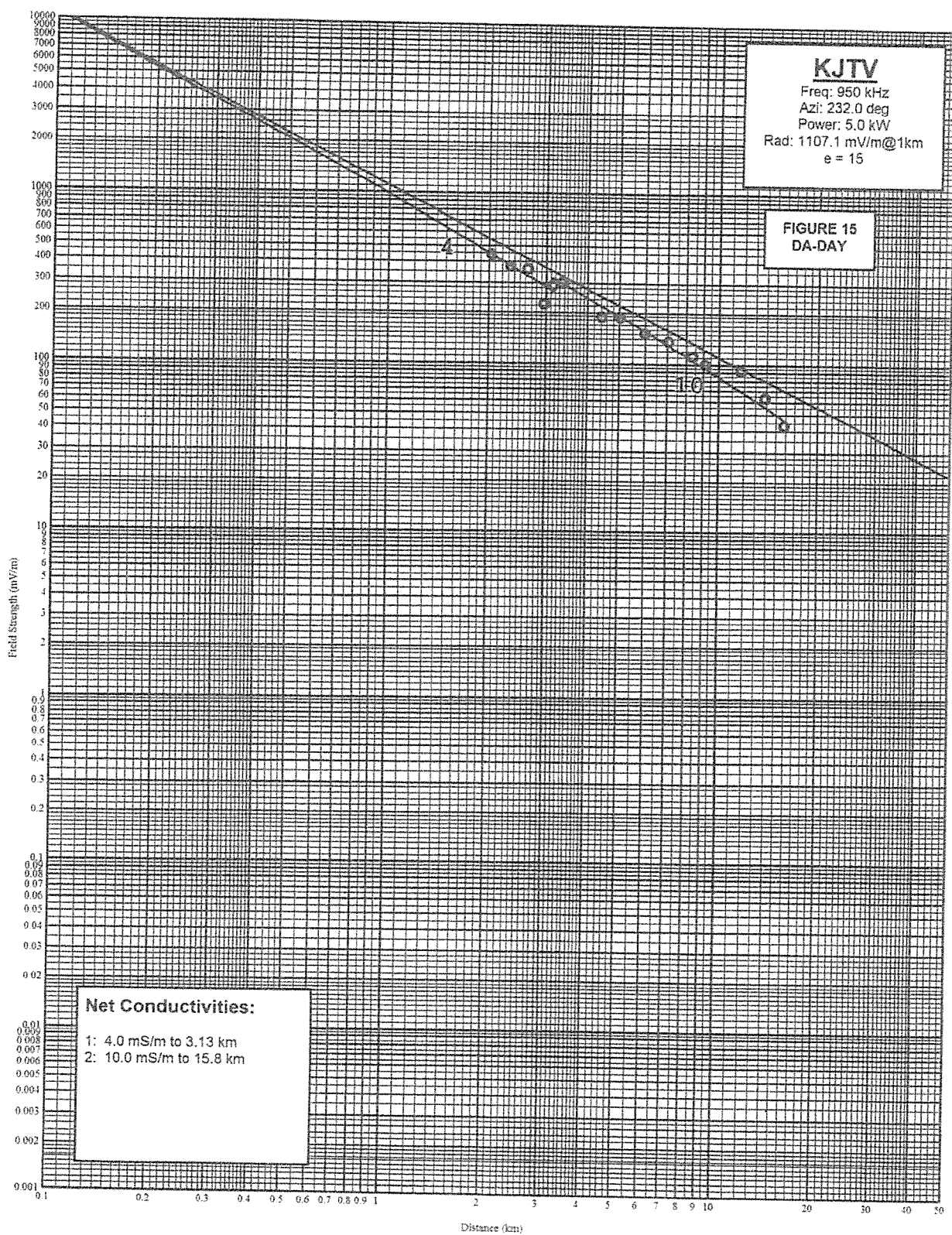


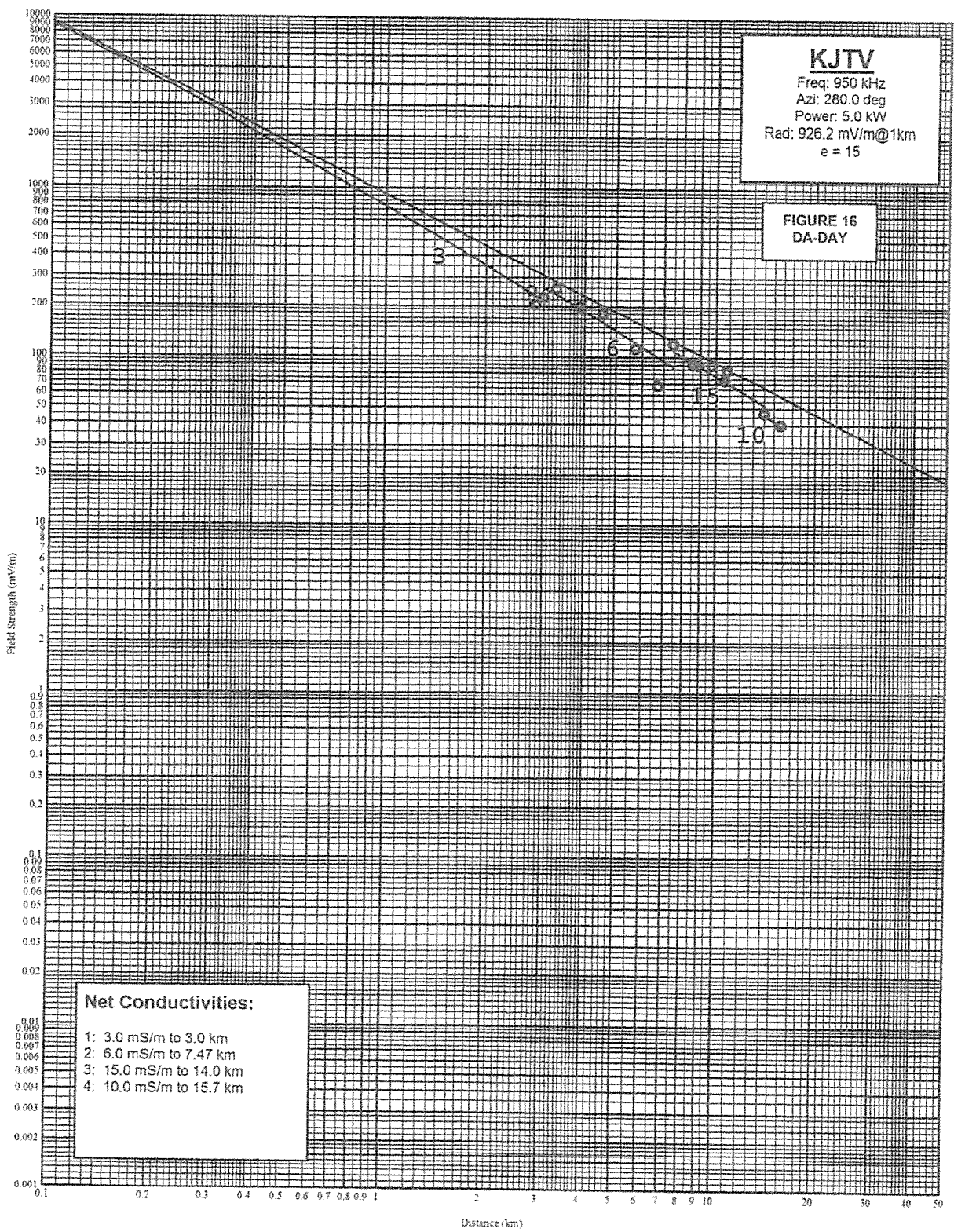


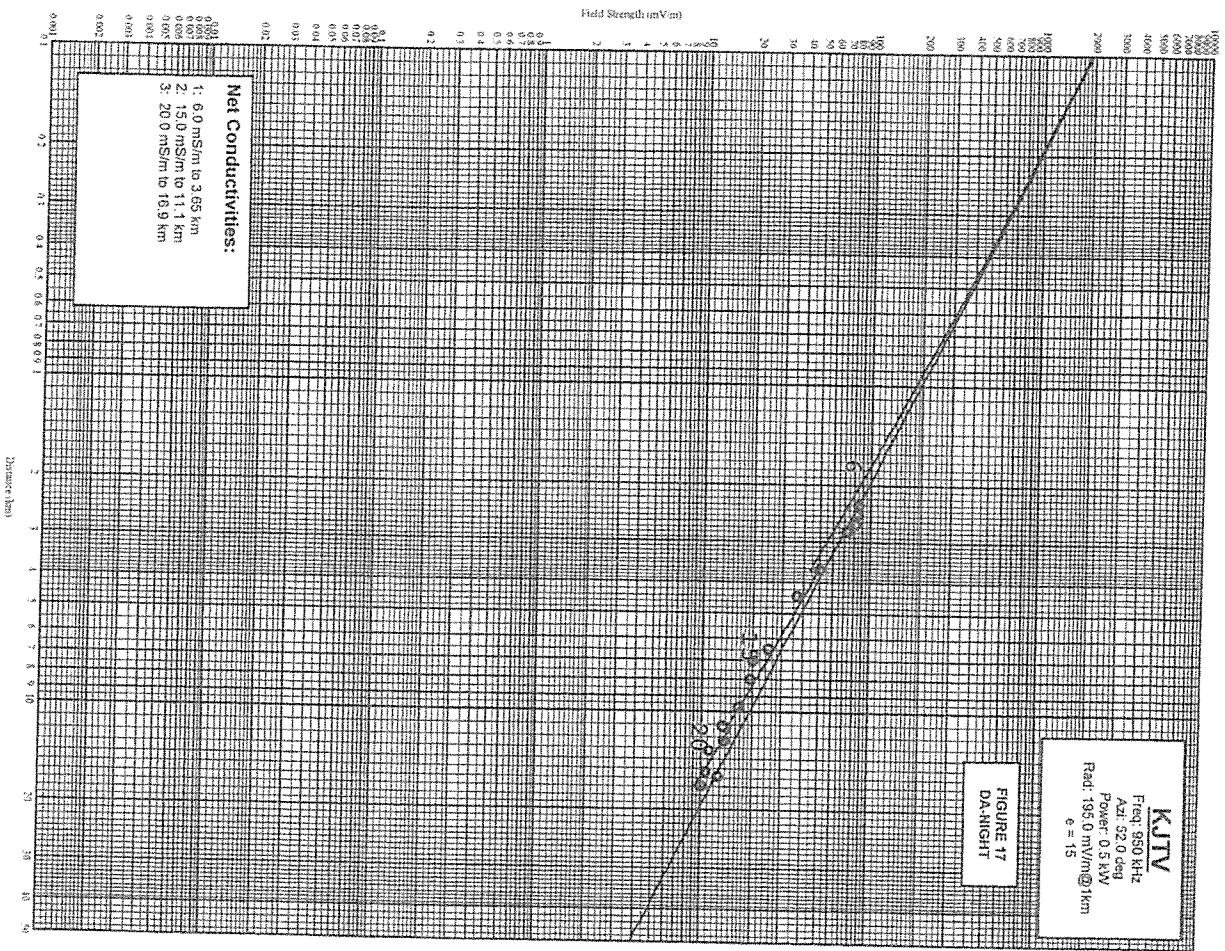


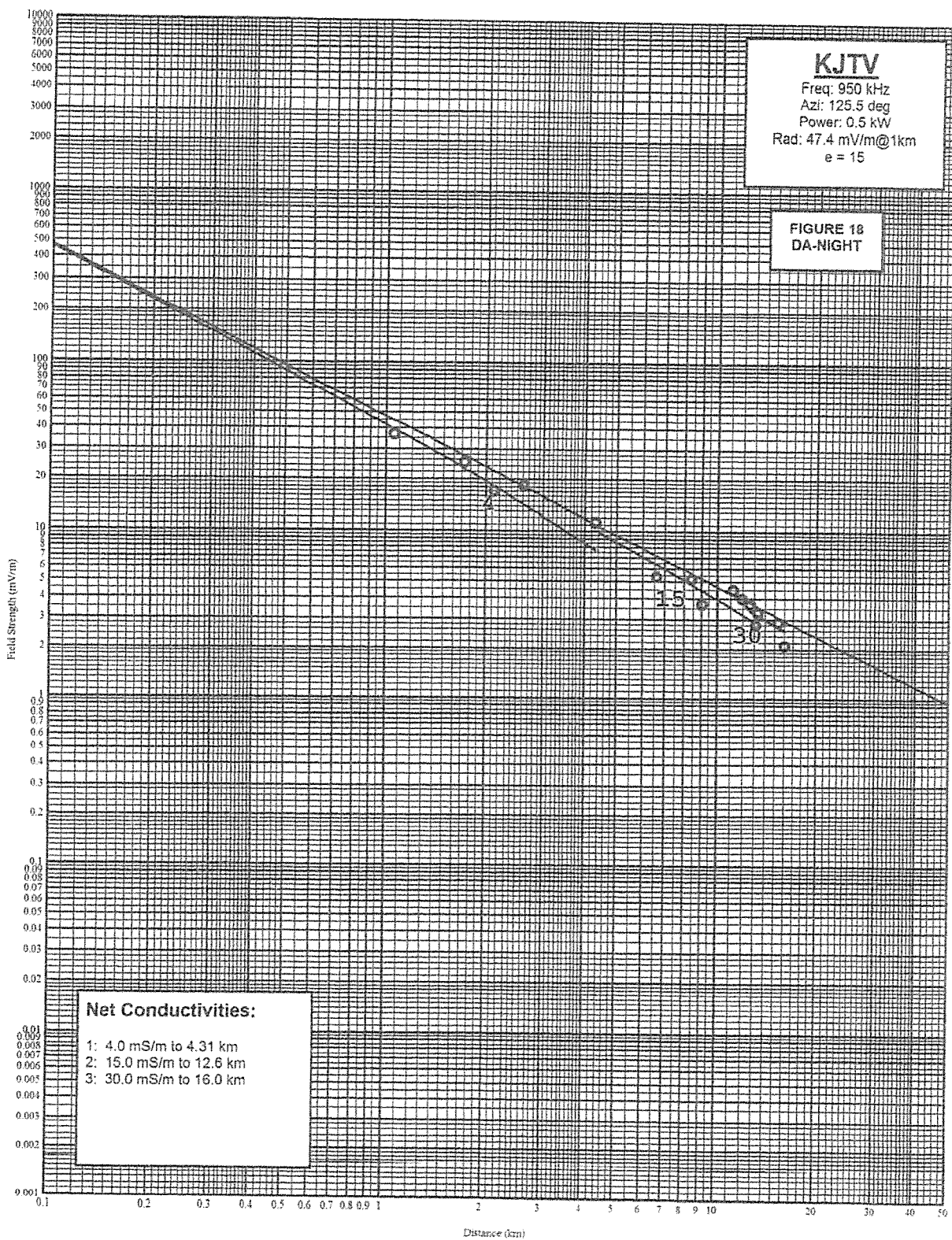


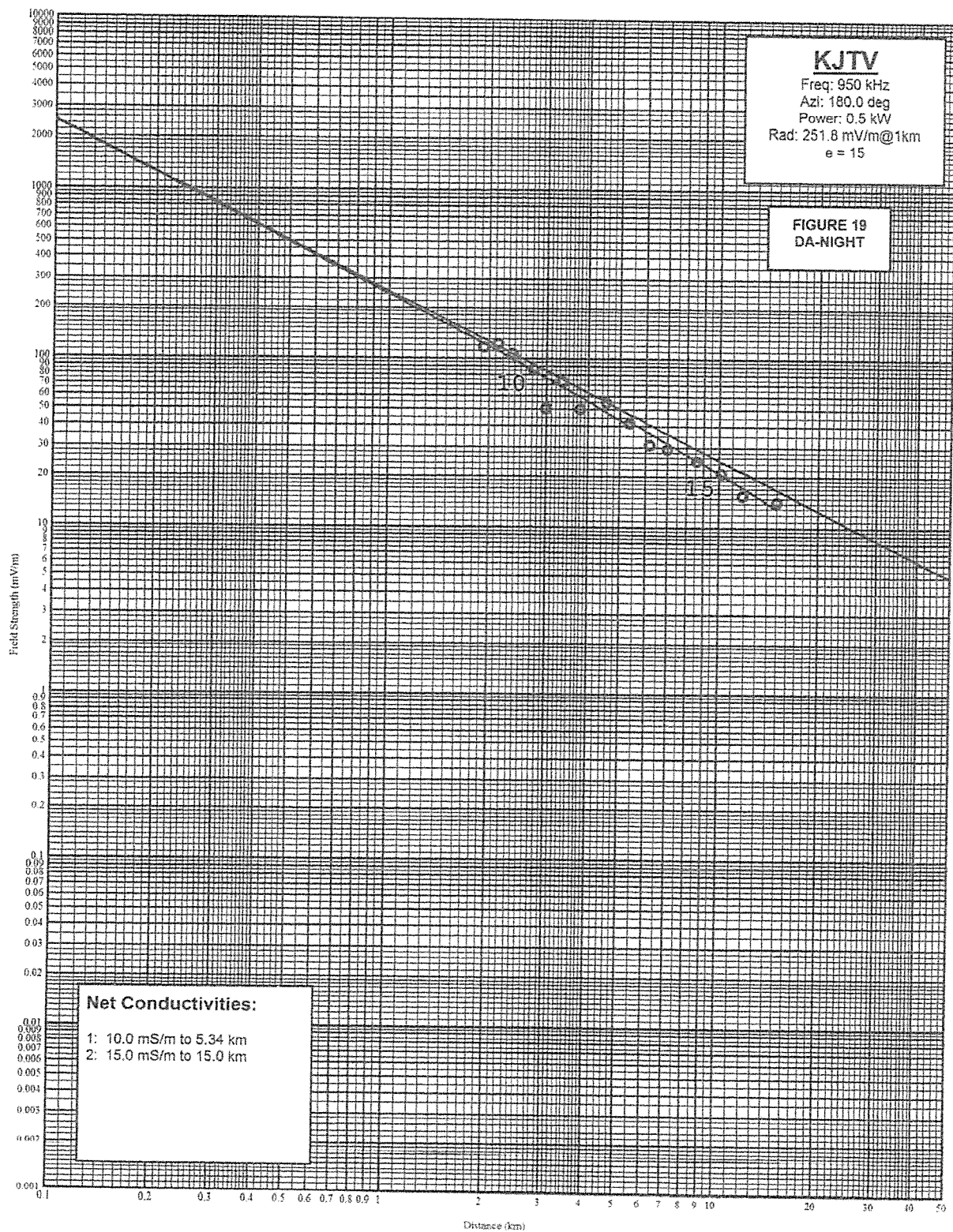


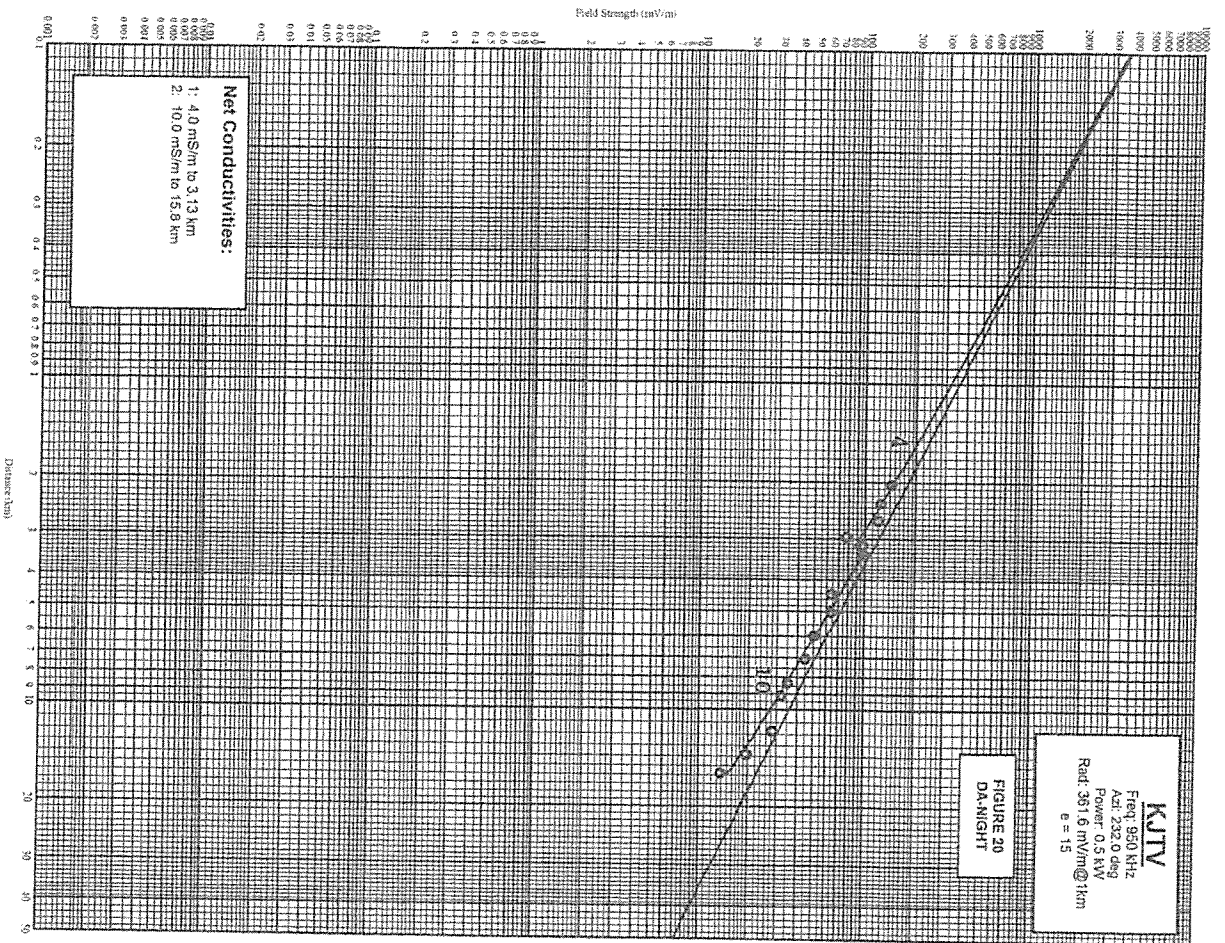


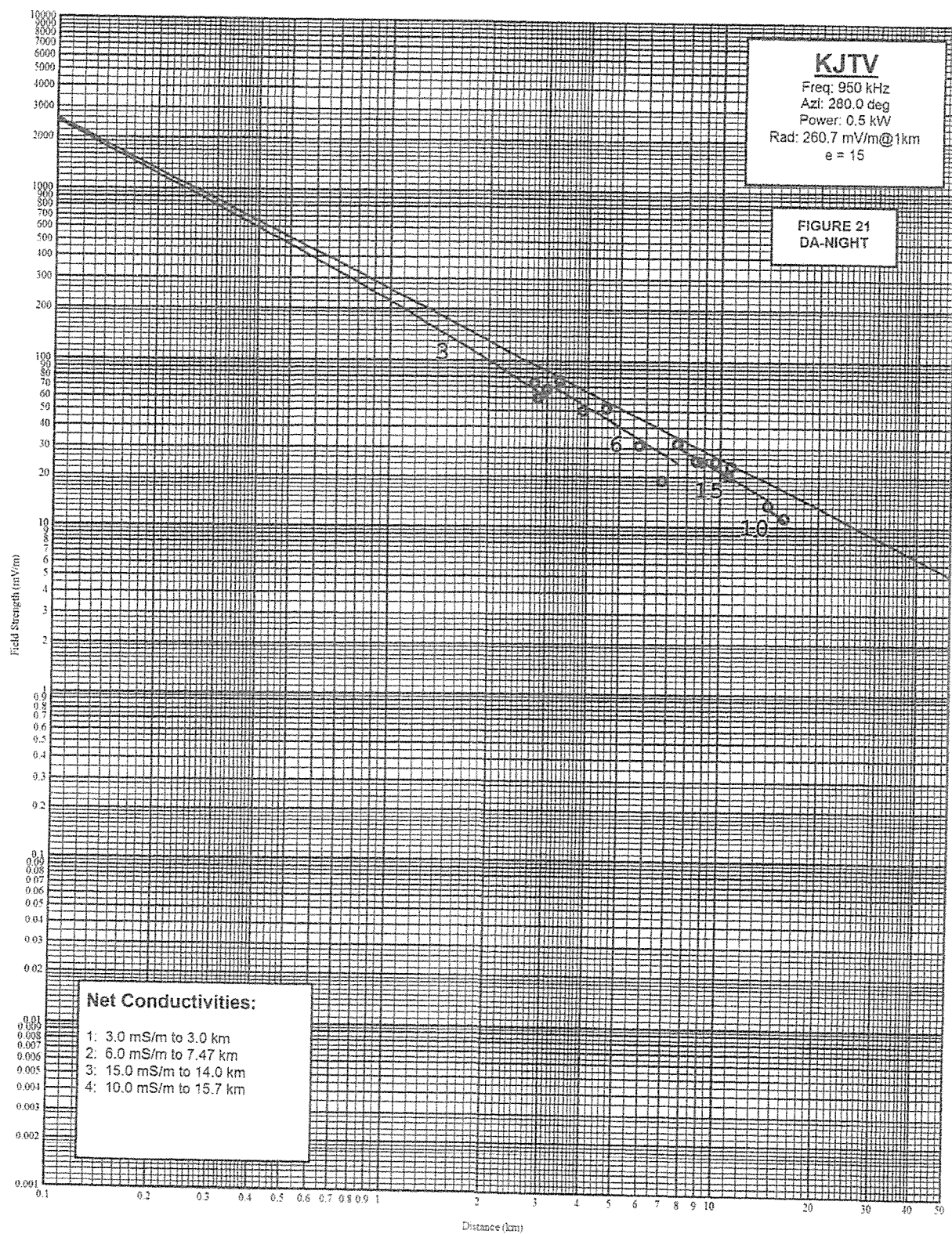












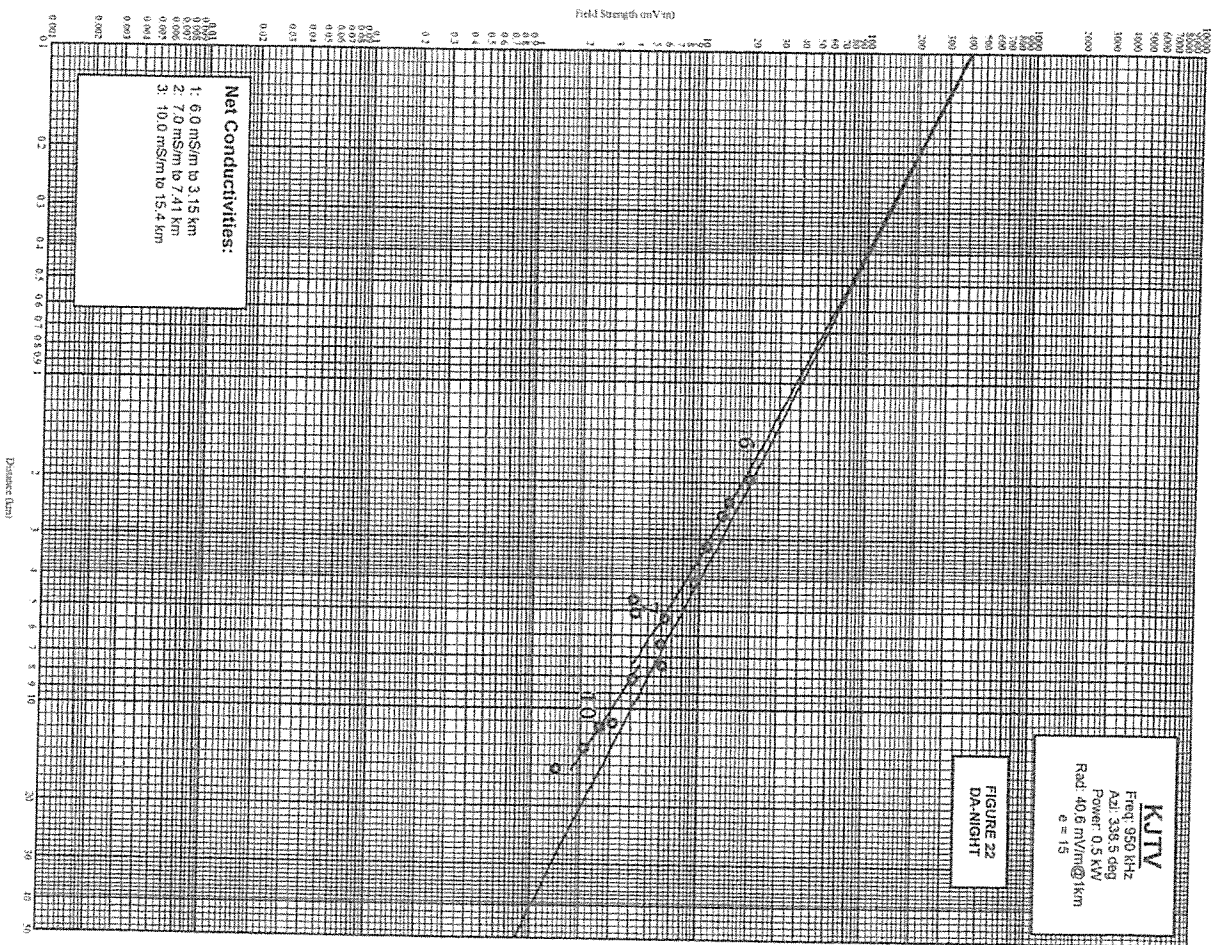
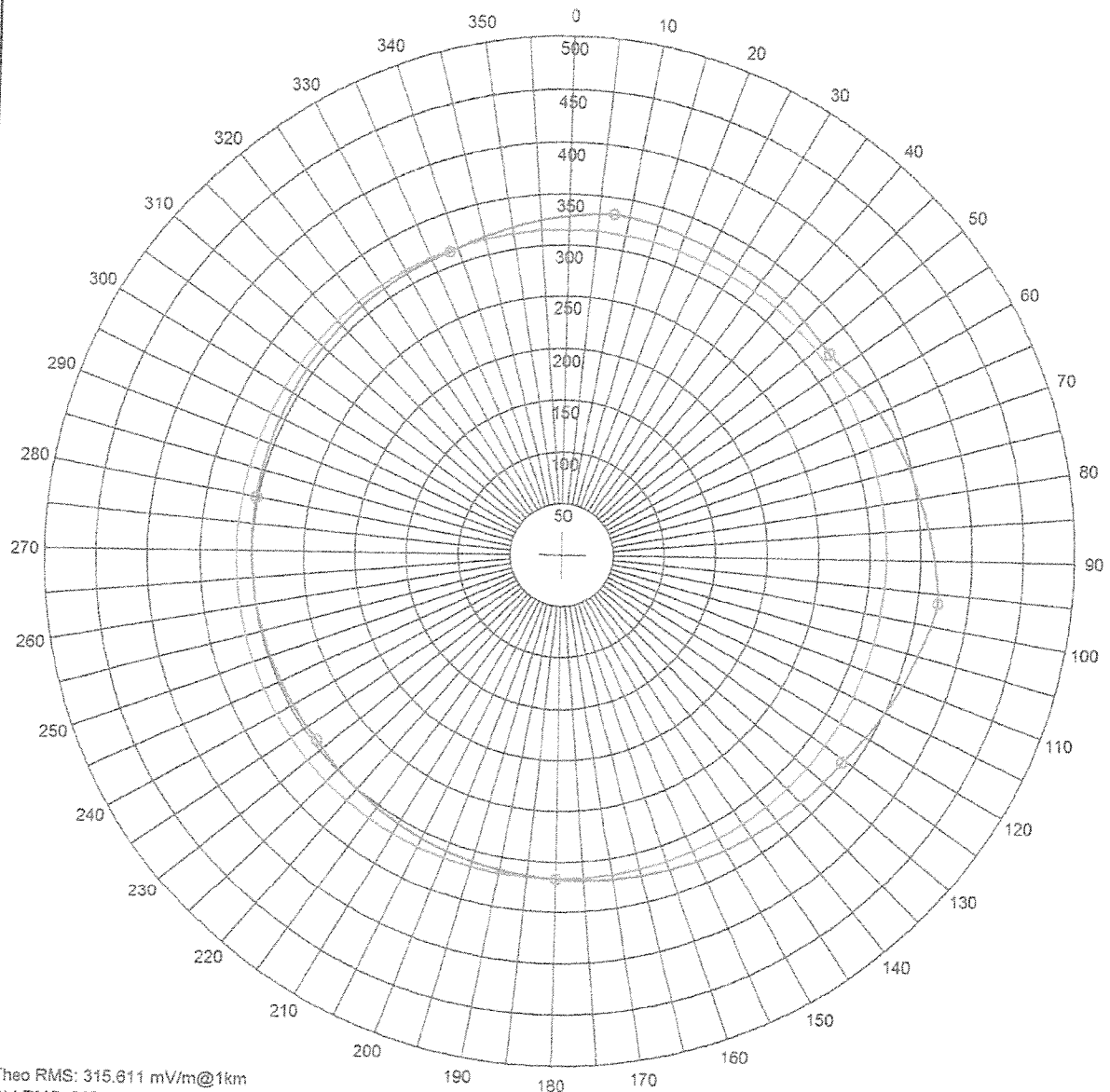


FIGURE 23: MEASURED NON-DIRECTIONAL



Theo RMS: 315.611 mV/m@1km
 Std RMS: 315.611 mV/m@1km
 Meas RMS: 322.471 mV/m@1km
 Q: -1.0 mV/m@1km

Horizontal Plane Standard Pattern

—— Pattern (mV/m @ 1km)
 - - - - Meas Pat (mV/m@1km)
 - - - - Pattern X10
 - - - - Meas Pat X10

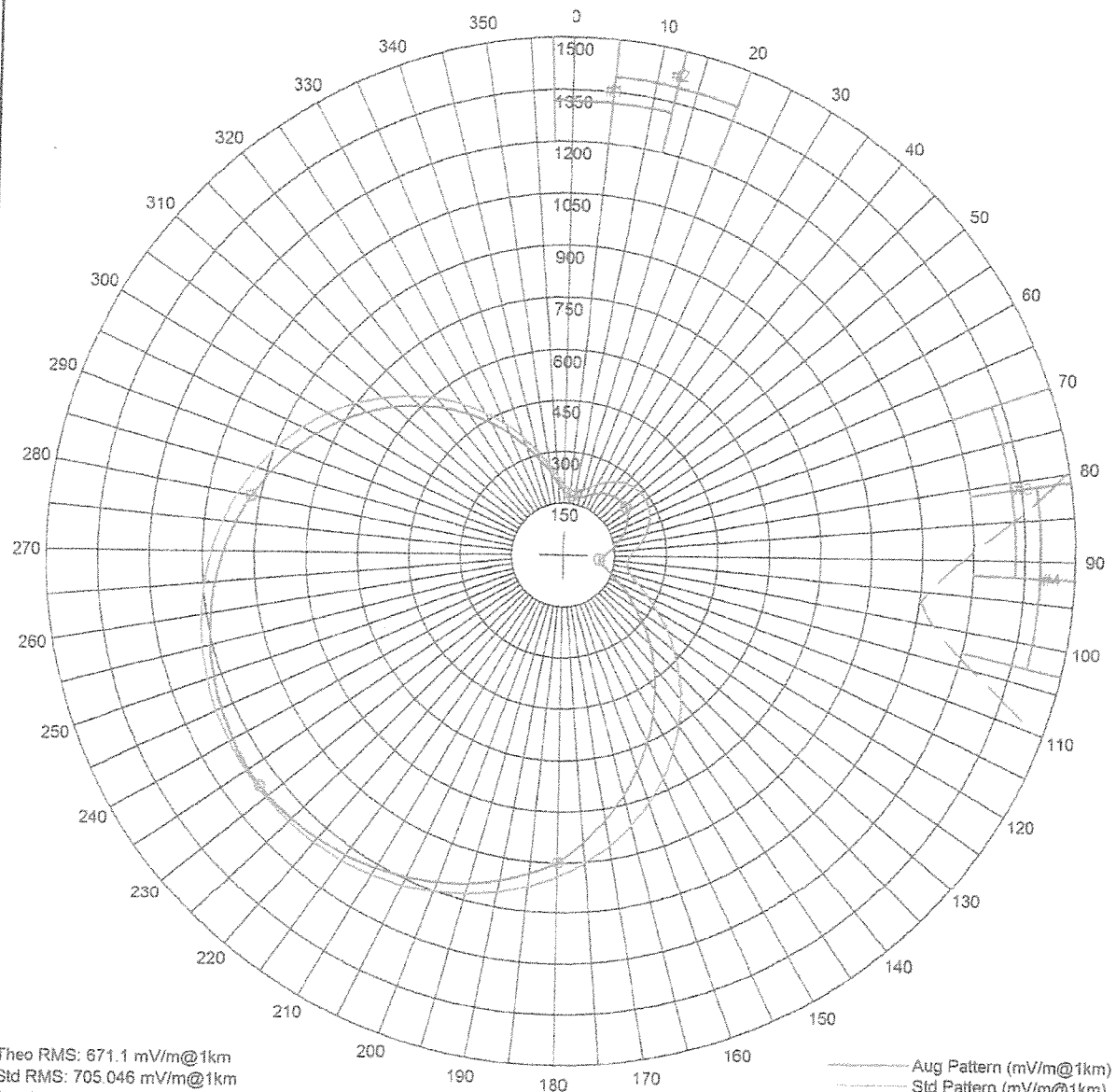
#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.990	0.0	0.0	0.0	86.9	0	0	0.0	0.0	0.0	0.0

Call: KJTV
 Freq: 950 kHz
 LUBBOCK, TX, US
 Lat: 33-34-53 N
 Lng: 101-49-38 W
 Power: 1.08 kW
 Theo RMS: 303.70 mV/m @ 1km

PHASETER INC.

MAY 2009

FIGURE 24: MEASURED DA-DAY



Theo RMS: 671.1 mV/m@1km
 Std RMS: 705.046 mV/m@1km
 Aug RMS: 705.158 mV/m@1km
 Meas RMS: 667.299 mV/m@1km
 Q: 22.361 mV/m@1km

Horizontal Plane Augmented Pattern

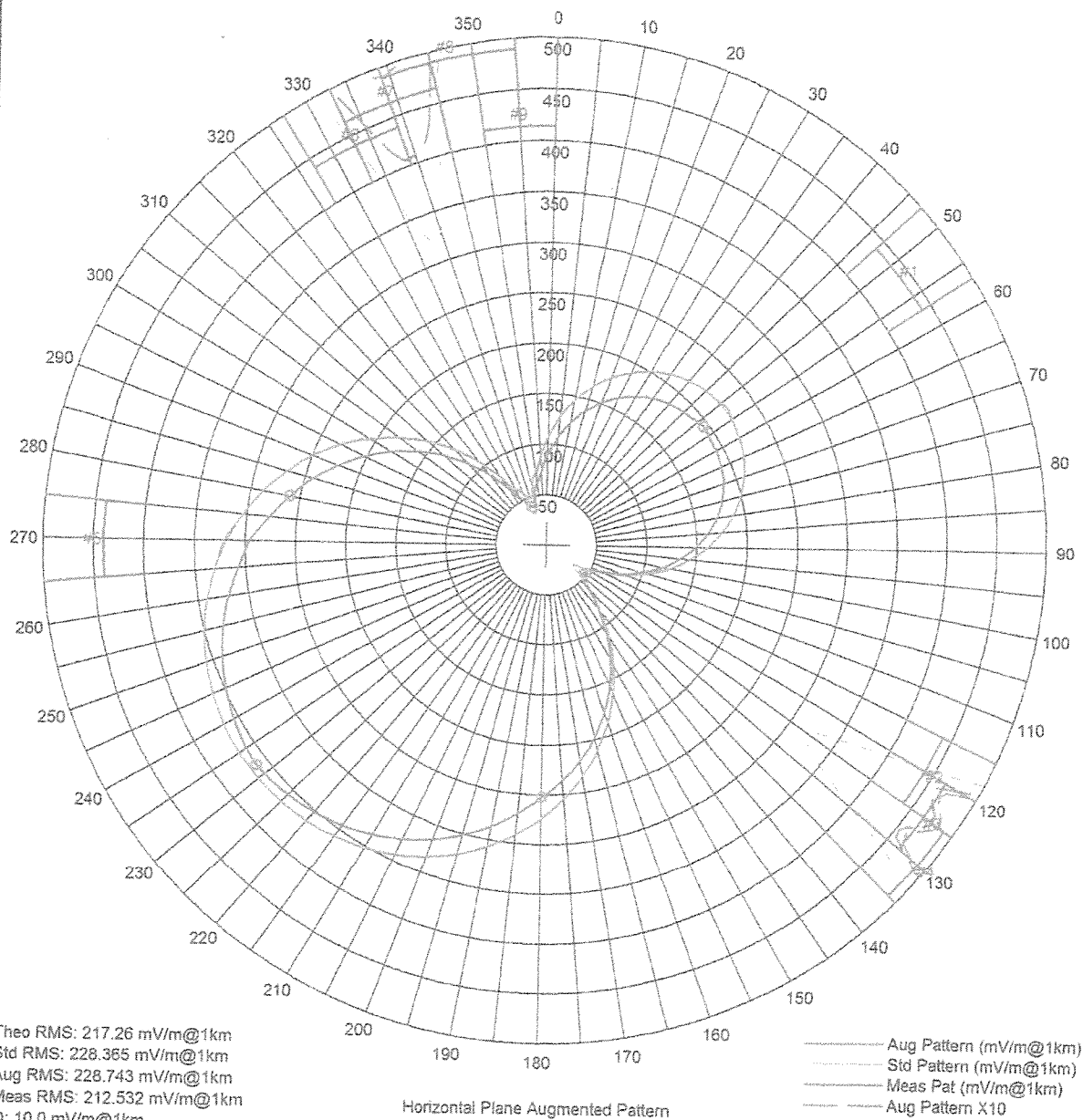
----- Aug Pattern (mV/m@1km)
 ----- Std Pattern (mV/m@1km)
 Meas Pat (mV/m@1km)
 -.-.-.- Aug Pattern X10
 -.-.-.- Std Pattern X10
 -.-.-.- Meas Pat X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)
1	0.750	0.0	0.0	0.0	36.9	0	1	5.00	193.12	15.0
2	1.000	130.0	70.0	52.0	36.9	0	2	12.50	196.34	15.0
							3	91.00	225.31	22.0
							4	52.00	189.90	22.0

Call: KJTV
 Freq: 950 kHz
 LUBBOCK, TX, US
 Lat: 33-34-53 N
 Long: 101-49-38 W
 Power: 5.0 kW
 Theo RMS: 671.10 mV/m @ 1km
 # of Augmentations: 4

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 MAY 2009

FIGURE 25: MEASURED DA-NIGHT



Theo RMS: 217.26 mV/m@1km
 Std RMS: 228.365 mV/m@1km
 Aug RMS: 228.743 mV/m@1km
 Meas RMS: 212.532 mV/m@1km
 Q: 10.0 mV/m@1km

Horizontal Plane Augmented Pattern

— Aug Pattern (mV/m@1km)
 - - - Std Pattern (mV/m@1km)
 . . . Meas Pat (mV/m@1km)
 — Aug Pattern X10
 - - - Std Pattern X10
 . . . Meas Pat X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)	Call: KJTV
1	0.890	0.0	0.0	0.0	86.9	0	1	52.00	225.07	10.0	Freq: 950 kHz
2	1.000	160.0	70.0	52.0	86.9	0	2	120.00	49.08	10.0	LUBBOCK, TX, US
							3	125.00	48.28	10.0	Lat: 33-34-53 N
							4	130.00	40.20	10.0	Lng: 101-49-38 W
							5	270.00	321.14	10.0	Power: 0.5 kW
							6	333.00	59.95	12.0	Theo RMS: 217.26 mV/m @ 1km
							7	339.00	49.08	12.0	# of Augmentations: 9
							8	347.00	67.59	16.0	PHASETEK INC.
							9	355.00	88.51	10.0	MAY 2009

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FIGURE 26
PHOTO AND DESCRIPTION
KJTV DAY MONITOR POINT
7.5⁰ DEGREE RADIAL



Point is North of intersection of Ivory & Emory Streets, opposite Matadors sign on stadium building, West edge of Ivory Road. This point is # 7 of this proof for this Radial and is 2.59 km from the site.

NAD 27 Coordinates:

N 33-36-18.9

W 101-49-19.5

The normal reading is 58.0 mV/m.

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FIGURE 27
PHOTO AND DESCRIPTION
KJTV DAY MONITOR POINT
96.5° DEGREE RADIAL



Point is off Cherry Street, Southwest corner of parking lot/road from St. Patrick's Roman Catholic Church. This point is #7 of the proof for this Radial and is 1.90 km from the site.

NAD 27 Coordinates:

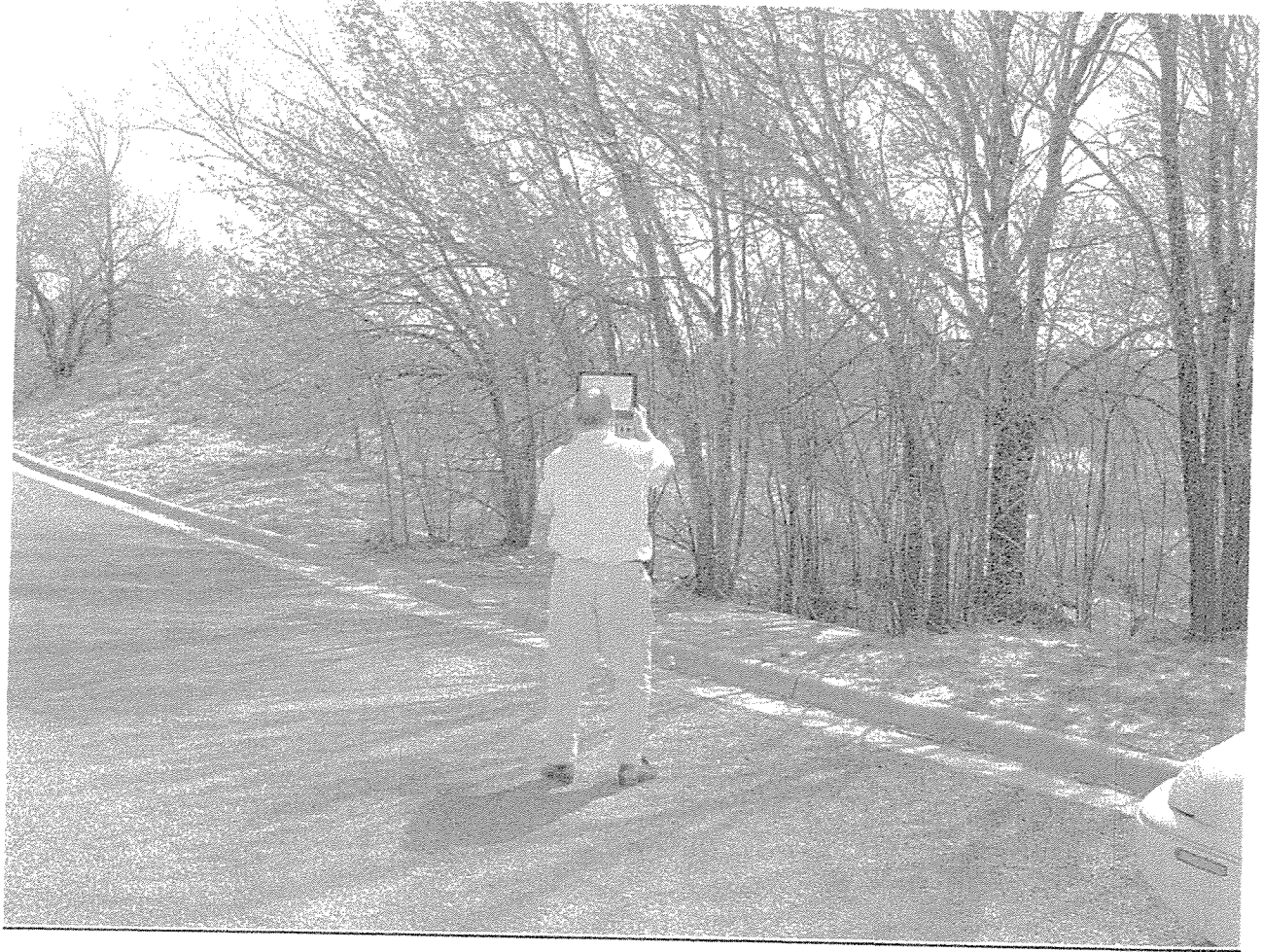
N 33-34-49.8

W 101-48-19.1

The normal reading is 53.0 mV/m.

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FIGURE 28
PHOTO AND DESCRIPTION
KJTV NIGHT MONITOR POINT
125.5⁰ DEGREE RADIAL



Point is on Canyon Lake Drive, South side (lake side), at creek with concrete split with openings. The point is #7 of the Proof for this Radial and is 2.61 km from the site.

NAD 27 Coordinates:

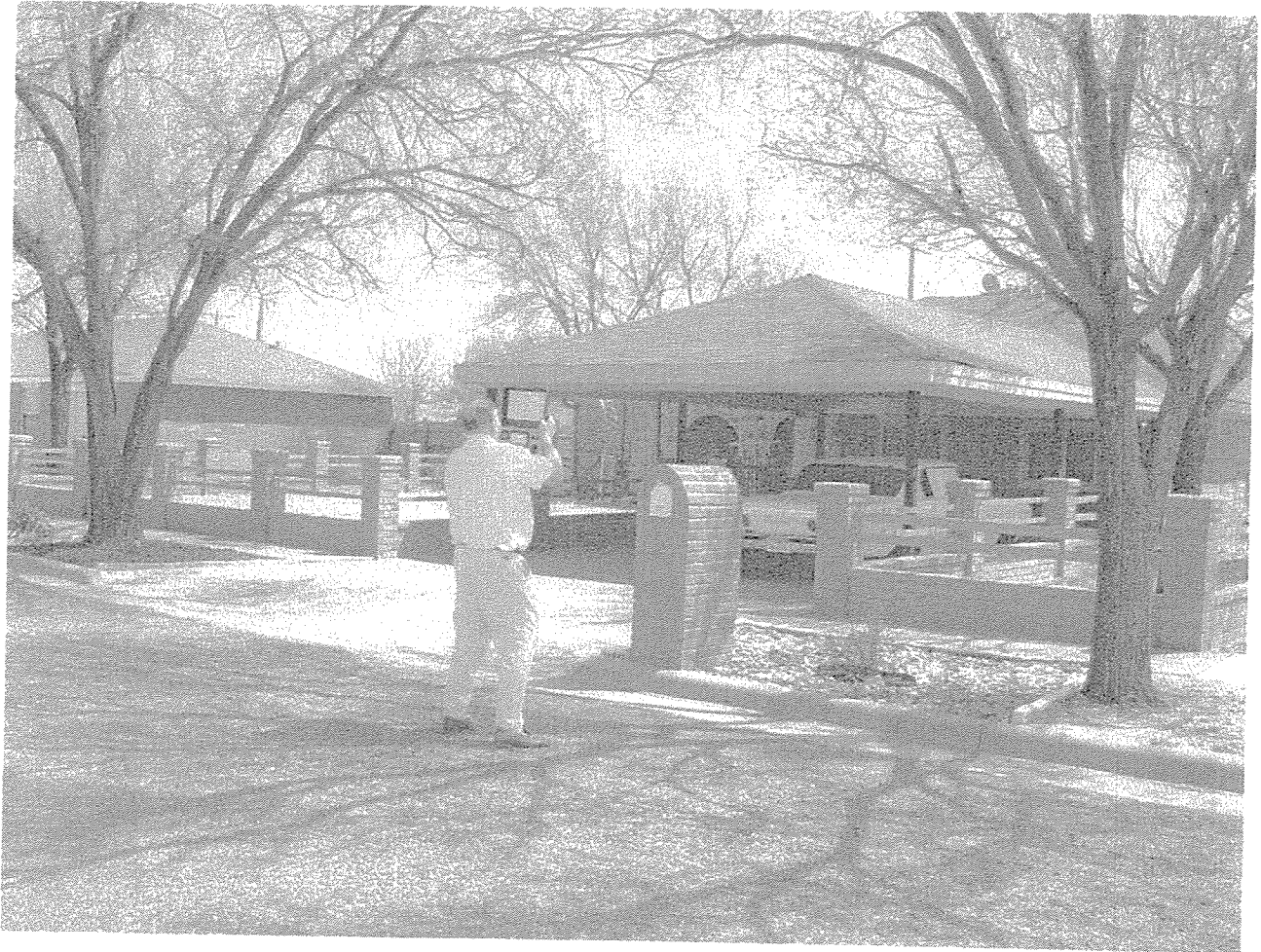
N 33-34-07.3

W 101-48-10.0

The normal reading is 18.5 mV/m.

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FIGURE 29
PHOTO AND DESCRIPTION
KJTV NIGHT MONITOR POINT
338.5° DEGREE RADIAL



Point is in front of mailbox at 919 Bradley Street. The point is #13 of the Proof for this Radial and is 5.28 km from the site.

NAD 27 Coordinates:

N 33-37-34.9

W 101-50-48.4

The normal reading is 6.3 mV/m.