

WBIQ-DT CHANNEL \*39 MINOR  
MODIFICATION OF CONSTRUCTION  
PERMIT APPLICATION  
BIRMINGHAM, ALABAMA  
*(Alabama Education Television Commission)*

KESSLER AND GEHMAN ASSOCIATES, INC.  
TELECOMMUNICATIONS CONSULTING ENGINEERS

20110922

*Prepared by William T. Godfrey, Jr.*

KGGA

507 N.W. 60th Street, Suite C  
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*Kessler and Gehman Associates, Inc.*

*Telecommunications Consulting Engineers*

**ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM THOMAS GODFREY, JR., WITH THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC. (KGA), TELECOMMUNICATIONS CONSULTING ENGINEERS, IN SUPPORT OF A MINOR MODIFICATION OF CONSTRUCTION PERMIT APPLICATION FOR THE WBIQ-DT CHANNEL \*39 DIGITAL TELEVISION BROADCAST FACILITY LICENSED TO ALABAMA EDUCATIONAL TELEVISION COMMISSION (BPEDT-20100406AAQ).**

The firm Kessler and Gehman Associates, Inc. (KGA) has been retained by Alabama Educational Television Commission (AETC), Birmingham, AL to prepare the engineering studies and the engineering portion of a minor modification of construction permit application (BPEDT-20100406AAQ) to change the antenna model, antenna height and polarization.

**Discussion**

AETC is authorized to operate the WBIQ-DT Birmingham, AL facility on digital Channel \*39 with an effective radiated power (ERP) of 1,000 kW at an antenna height radiation center of 266.0 meters Above Ground Level (AGL) using a Dielectric model TFU-31ETT-R 4C200SP horizontally polarized, directional, side-mount antenna. However, AETC realized that it can provide new coverage to unserved areas of Alabama by replacing the existing Channel 10, top-mounted (lower stack) antenna with the proposed Channel \*39 antenna. This change will result in a 150-foot increase in antenna height which will extend coverage throughout fifteen counties in the state of Alabama (see Exhibit 11). In order to go from the authorized side-mount height to the proposed top-mount height, AETC will have to change antenna models since the top-mounted antenna will need to be designed with a support pole capable of supporting the WBIQ-DT (lower stack) and WTTO-DT (upper stack) antennas. Accordingly, this minor modification of construction permit application requests authorization to make the following changes: 1) change antenna model from the authorized Dielectric model TFU-31ETT-R 4C200SP side-mount, directional antenna to a Dielectric model TFU-27JSC/VP-R 4C210 top-mount, directional antenna; 2) increase the antenna height radiation center from the authorized 266.0 meters AGL to



312.0 meters AGL (46 meter increase); and 3) change antenna polarization from horizontal to elliptical. It should be noted that the vertical component of the elliptical polarization is limited to approximately 23% so that it will not extend beyond the horizontal component in any azimuthal direction. Therefore, the horizontal component exceeds the vertical component in all directions. The 46 meter increase in antenna height will also result in the antenna height radiation center above mean sea level (AMSL) changing from the authorized height of 554.6 meters to 600.6 meters and the antenna height radiation center above average terrain (AAT) changing from the authorized height of 365.5 meters to 411.5 meters.

### **Community of License**

Exhibit 10 depicts the proposed WBIQ-DT Channel \*39 F(50,90) 48.0 dBuV/m principal community contour and demonstrates that it will completely encompass the principal community of Birmingham, AL. Therefore, the proposed station meets the principal community coverage requirements pursuant to section 73.625(a) of the FCC Rules.

### **Gain vs. Loss**

Exhibit 11 depicts the authorized WBIQ-DT Channel \*39 facility's F(50,90) 41.1 dBuV/m noise limited contour (red) and the proposed WBIQ-DT Channel \*39 facility's F(50,9) 41.1 dBuV/m contour (blue). Referring to Exhibit 11, it can be seen that the proposed contour (blue contour) matches or exceeds replication (red contour) in all azimuthal directions. Therefore, the public will be served since AETC will be providing its programming to the population currently being served as well as to an unserved population residing in the state of Alabama. The proposed change will result in an increased population of 67,089 within the protected noise limited contour based on U.S. Census 2000 data.



**Largest Station in the Market**

The DTV Maximum Power and Antenna Heights Table in §73.622(f)(8) of the FCC rules states that the maximum allowable ERP for a DTV station that operates on a channel between 14-59 with an antenna height above average terrain (HAAT) of 411.5 meters is 817.5 kW (interpolated). However, §73.622(f)(5) of the FCC rules states that licensees and permittees assigned a DTV channel in the initial DTV Table of Allotments may request an increase in either ERP in some azimuthal direction or antenna HAAT, or both, that exceed the initial technical facilities specified in Appendix B, up to that needed to provide the same geographic coverage area as the largest station within their market, whichever would allow the largest service area.

It was determined that the authorized WUOA-DT Channel 6 Tuscaloosa, AL facility (BPCDT-20100716ADI) is the largest station in the Birmingham, AL market. Exhibit 12 depicts the authorized WUOA-DT Channel 6 facility's F(50,90) 28.0 dBuV/m protected noise limited contour (blue) and demonstrates that the geographic coverage area within the authorized WUOA-DT Channel 6 facility's F(50,90) 28.0 dBuV/m protected noise limited contour is 52,453.59 sq. km. Exhibit 12 also depicts the proposed WBIQ-DT Channel \*39 facility's F(50,90) 41.1 dBuV/m protected noise limited contour (red) and demonstrates that the geographic coverage area within the proposed WBIQ-DT Channel \*39 facility's F(50,90) 41.1 dBuV/m protected noise limited contour is only 30,715.35 sq. km. Comparing the authorized WUOA-DT geographic coverage area with the proposed WBIQ-DT geographic coverage area, it can be seen that the proposed WBIQ-DT Channel \*39 facility's geographic coverage area is 21,738.24 sq. km less than the authorized WUOA-DT Channel 6 facility's geographic coverage area. Therefore, the proposed ERP of 1,000 kW and antenna HAAT of 411.5 meters meets the largest station in the market requirements pursuant to §73.622(f)(5) of the FCC rules.

**Interference Protection (Waiver Requested)**

The proposed Channel \*39, 1,000 kW ERP facility satisfies the interference protection provisions of 73.613(j) and §73.616 of the FCC Rules. Exhibit 13 is a Longley-Rice interference



study that was computed using a Sun Microsystems computer work station loaded with the FCC's DTV analysis software. The interference percentages are exactly the same as the FCC calculations since the study was performed using the same type computer and the same interference analysis software. Referring to Exhibit 13, it can be seen that the proposed WBIQ-DT Channel \*39 facility will have contour overlap with the licensed W39CD-LP Channel 38 Class A low power TV (LPTV) facility (BLTTA-20090811ABQ) and the authorized W39CD-LP Channel 38 Class A low power TV (LPTV) facility (BPTTA-20100601AGO). Referring to Exhibit 13, it can also be seen that the proposed WBIQ-DT Channel \*39 facility will be inside the contour of the authorized (BDISTTA-20080804AEH) W49AY Channel 47 Class A facility. However, Section 73.613(j) of the FCC rules states that, in support of a waiver of the interference protection requirements, an applicant for a TV broadcast station may make full use of terrain shielding and Longley-Rice terrain dependent propagation methods to demonstrate that the proposed facility would not be likely to cause interference to Class A TV stations. Accordingly, AETC hereby requests a waiver pursuant to Section 73.613(j) of the FCC Rules. Exhibit 13 demonstrates that the proposed WBIQ-DT Channel \*39 facility would cause zero (0.0) percent interference to the W39CD-LP Class A LPTV station and the W49AY Channel 47 Class A LPTV station. Therefore, the proposed WBIQ-DT Channel \*39 facility complies with Class A protection requirements pursuant to Section 73.613(j) of the FCC rules.

Exhibit 13 demonstrates that the proposed WBIQ-DT Channel \*39 facility will not cause more than 0.5% interference to full-service DTV stations and also demonstrates that the proposed WBIQ-DT Channel \*39 facility satisfies the requirements for FCC Monitoring Stations, West Virginia Quiet Zones, Table Mountain, and Canadian/Mexican border coordination. Accordingly, the proposed WBIQ-DT Channel \*39 facility satisfies the interference protection provisions of 47 C.F.R. §73.616.



## **Exhibits**

Exhibits 1 and 2 represent WBIQ's administration data as well as the antenna and antenna structure specifications for the proposed digital Channel \*39.

Exhibit 3 depicts the profile view of the proposed antenna on the antenna structure with all the appropriate elevations.

Exhibits 4 and 5 display the proposed antenna azimuth pattern and the proposed antenna azimuth pattern tabulation respectively.

Exhibits 6 (11 deg) and 7 (90 deg) display the elevation pattern and Exhibit 8 displays the elevation pattern tabulation.

Exhibit 9 depicts the location of the WBIQ-DT transmitter site using the Birmingham South, AL Topographic map.

Exhibit 10 is a principal community contour map demonstrating that the proposed WBIQ-DT Channel \*39 DTV facility's F(50,90) 48.0 dBuV/m Principal Community contour completely encompass the principal community of Birmingham, AL.

Exhibit 11 is a contour map comparing the authorized WBIQ-DT Channel \*39 F(50,90) 41.1 dBuV/m contour (red) and the proposed WBIQ-DT Channel \*39 F(50,90) 41.1 dBuV/m contour (blue).

Exhibit 12 demonstrates that the geographic coverage area within the proposed WBIQ-DT Channel \*39 facility's F(50,90) 41.1 dBuV/m protected noise limited contour is less than the geographic coverage area within the authorized WUOA-DT Channel 6 facility's F(50,90) 28.0



dBuV/m protected noise limited contour and demonstrates that the largest station in the market requirements have been met pursuant to §73.622(f)(5) of the FCC rules.

Exhibit 13 is a Longley-Rice interference study computed using a Sun Microsystems computer work station loaded with the FCC's DTV analysis software. The exhibit demonstrates compliance with the interference requirements pursuant to Sections 73.613(j) and 73.616 of the FCC rules.

### **Environmental Impact**

The proposed construction will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The digital transmitter, transmission line and antenna system shall produce an ERP of 1,000.0 kW (e-pol). It was determined that the maximum lobe of radiation from the base of the tower will occur at approximately 1,065.9 feet from the base of the tower (1,507.4 ft radial distance from the antenna center). At approximately 1,065.9 feet from the base of the tower, the depression angle of the main lobe will be approximately 45° below the horizontal. At that point, the relative field is 0.097 and the power density six feet above the ground will be approximately 0.00183 mW/cm<sup>2</sup>. This equates to only 0.09% of the Maximum Permissible Exposure (MPE) limits for Occupational/Controlled Exposure and only 0.44% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (ANSI). Since operation of the proposed WBIQ-DT Channel \*39 facility will not exceed 5.0% of the MPE limit for Occupational/Controlled Exposure or General Population/Uncontrolled Exposure at any point on the ground, the proposed WBIQ-DT Channel \*39 facility is not considered a "significant contributor" to the RF exposure environment pursuant to OET Bulletin 65, Edition 97-01. Therefore, contributions of exposure from other sources were not accounted for in this analysis. It is safe to conclude that the emissions would be insignificant and well within the maximum allowable requirements.



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*Telecommunications Consulting Engineers*

If other antennas are placed on the tower in the future, the licensee will cooperate with those users by reducing or completely terminating the power to the antenna when maintenance workers are in danger from the electromagnetic radiation emanating from the antenna. It is also understood that additional antennas on the support structure could increase the overall RF exposure levels and it is the responsibility of each licensee to ensure that the total RF exposure resulting from the operation of all antennas on the support structure do not exceed the maximum permissible exposure level at any point on the ground.

### **Certification**

This technical statement was prepared by William T. Godfrey, Telecommunications Consultant with Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida and has been working in the field of radio and television broadcast consulting since 1998. He graduated from the University of North Florida with a Bachelor of Arts degree in Criminal Justice and a minor in Mathematics in 1993. As a Professional in the field of Telecommunications he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.



KESSLER AND GEHMAN ASSOCIATES, INC.

A handwritten signature in blue ink that reads "William T. Godfrey, Jr." is written over a horizontal line.

WILLIAM T. GODFREY, JR.  
Telecommunications Technical Consultant

22 September, 2011

# PROPOSED WBIQ-DT CHANNEL 39

BIRMINGHAM, ALABAMA

## ENGINEERING SPECIFICATIONS

A. Transmitter Site:

Geographic coordinates (NAD27):

North Latitude: \_\_\_\_\_ **33° 29' 04"**  
West Longitude: \_\_\_\_\_ **86° 48' 25"**

Transmitter Site Address: **2371 Golden Crest Drive  
Birmingham, AL**

B. Main Studio Address:

**Alabama Educational Television Commission  
2112 11<sup>th</sup> Avenue South  
Birmingham, AL 35209**

Digital Facility:

DTV Channel: \_\_\_\_\_  
Number: \_\_\_\_\_ **39**  
Frequency: \_\_\_\_\_ **620-626 MHz**  
Offset: \_\_\_\_\_ **N/A**

C. Antenna Height:

Height of Site Above Mean Sea Level (AMSL): \_\_\_\_\_ **288.6 M**  
Overall Height of Structure Above Ground: \_\_\_\_\_ **335.9 M**  
(including all appurtenances)  
Overall Height of Structure Above Mean Sea Level: \_\_\_\_\_ **624.5 M**  
(including all appurtenances)  
Height of Site Above Average Terrain: \_\_\_\_\_ **99.5 M**  
Antenna Height Radiation Center (R/C) Above Ground: \_\_\_\_\_ **312.0 M**  
Antenna Height R/C Above Mean Sea Level: \_\_\_\_\_ **600.6 M**  
Average of All Non-Odd Radials: \_\_\_\_\_ **189.1 M**  
Antenna Height R/C Above Average Terrain: \_\_\_\_\_ **411.5 M**

D. System Parameters – Elliptical Polarization:

Transmitter Power Required: \_\_\_\_\_ **36.0 kW**  
Maximum Power Input to Antenna: \_\_\_\_\_ **26.0 kW**  
Transmission Line Loss: \_\_\_\_\_ **1.41 dB**  
Transmission Line Efficiency: \_\_\_\_\_ **72.3%**  
Maximum Antenna Gain in Beam Maximum: \_\_\_\_\_ **15.85 dB**  
Maximum Antenna Gain in Horizontal Plane: \_\_\_\_\_ **13.96 dB**  
Maximum Effective Radiated Power: \_\_\_\_\_ **30.00 dBk**  
    In Beam Maximum: \_\_\_\_\_ **1,000.0 kW**  
Maximum Effective Radiated Power: \_\_\_\_\_ **28.11 dBk**  
    In Horizontal Plane: \_\_\_\_\_ **647.1 kW**

# PROPOSED WBIQ-DT CHANNEL 39

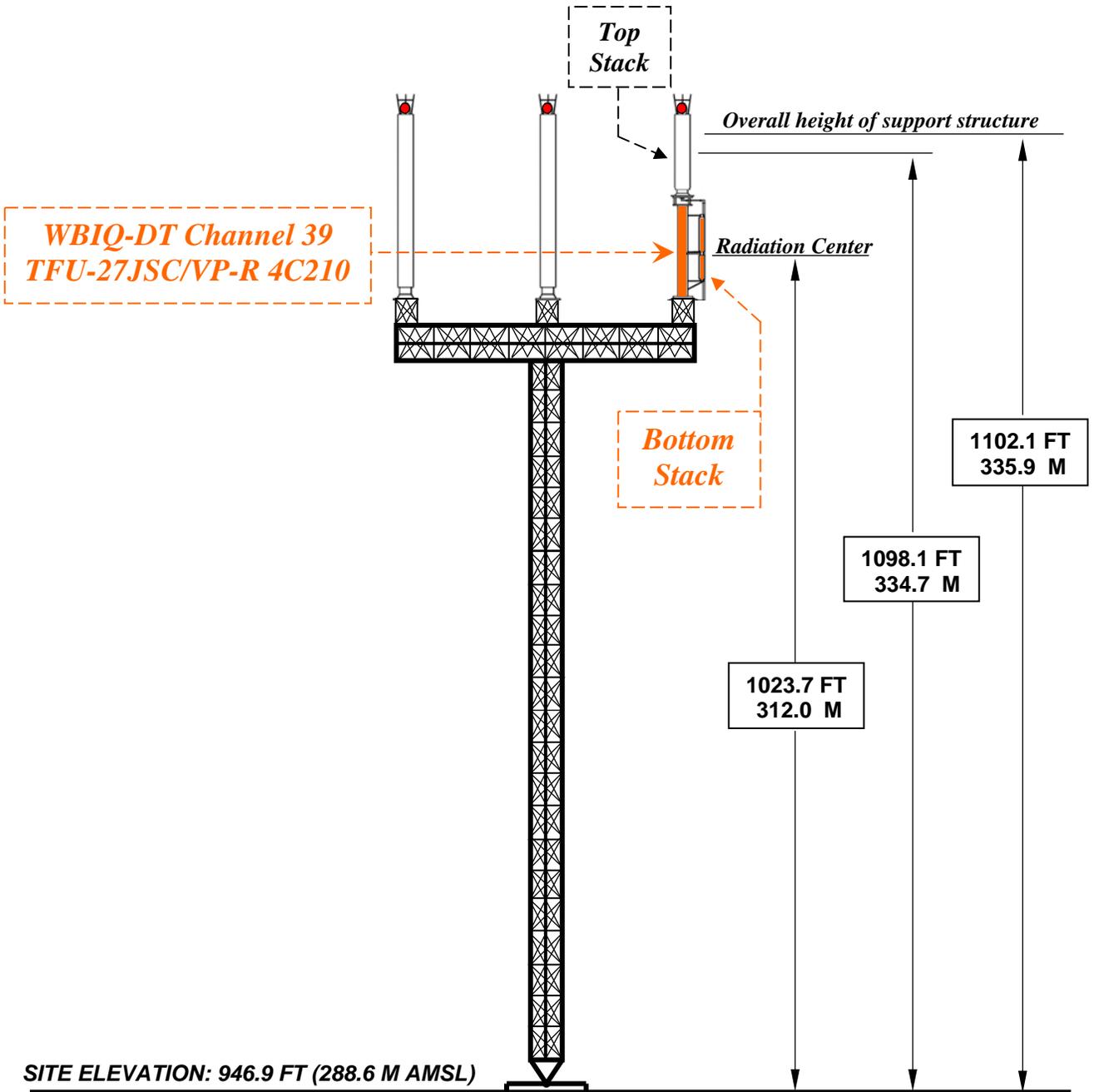
*BIRMINGHAM, ALABAMA*

## DATA FOR PROPOSED DIRECTIONAL TRANSMITTING ANTENNA

- A. **Antenna:** Dielectric model TFU-27JSC/VP-R 4C210 elliptically polarized, directional, top-mount (bottom-stack) antenna.
- B. **Electrical Beam Tilt:** 0.75 degrees
- C. **Mechanical Beam Tilt:** None
- D. 

<b><u>Maximum Power Gain</u></b>	<b><u>Horizontal Component</u></b>
Maximum:	38.5 (15.85 dB)
Horizontal:	24.9 (13.96 dB)
- E. **TPO:** 36.0 kW
- F. **Null Fill:** 25.7%
- G. **Transmission Line:** 6-1/8" 75 ohm EIA/DCA
- H. **Transmission Line Attenuation:** 0.123 dB/100-feet
- I. **Transmission Line Length:** 1,150 feet (350.5 meters)
- J. **Transmission Line Loss:** 1.41 dB

# SUPPORT STRUCTURE ELEVATION VIEW



**OVERALL HEIGHT AGL:** ..... 335.9 M  
**OVERALL HEIGHT AMSL:** ..... 624.5 M  
**RADIATION CENTER AGL:** ..... 312.0 M  
**RADIATION CENTER AMSL:** ..... 600.6 M  
**AVG OF NON-ODD RADIALS:** ..... 189.1 M  
**RADIATION CENTER HAAT:** ..... 411.5 M  
**SITE HAAT:** ..... 99.5 M

**COORDINATES: (NAD27)**  
**N. LATITUDE** 33° 29' 04"  
**W. LONGITUDE** 86° 48' 25"

**Antenna Structure Registration Number:**  
 1226663

**NOTE: NOT TO SCALE**

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**WBIQ-DT CHANNEL 39**  
**BIRMINGHAM, ALABAMA**

20110922

EXHIBIT 3

Proposal Number	<b>C-04593</b>	
Date	<b>1-Apr-11</b>	
Call Letters	<b>WBIQ</b>	Channel <b>39</b>
Location	<b>Birmingham, AL</b>	
Customer	<b>Alabama PTV</b>	
Antenna Type	<b>TFU-27JSC/VP-R 4C210</b>	

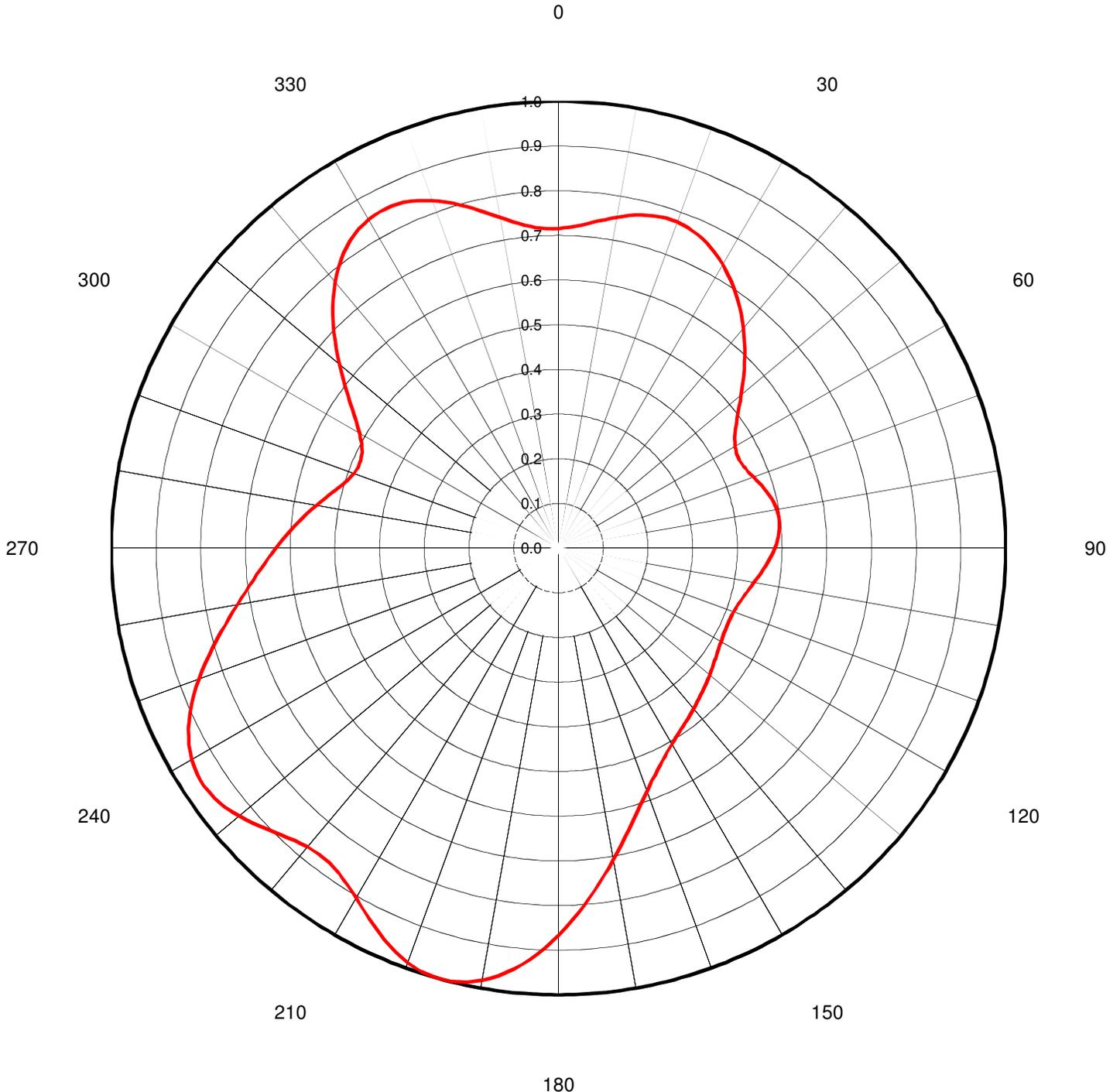
## AZIMUTH PATTERN

Gain **2.10**  
Calculated / Measured

**( 3.22 dB)**  
**Calculated**

Frequency  
Drawing #

**623.00 MHz**  
**4C210SP-H**





Proposal Number **C-04593**  
 Date **1-Apr-11**  
 Call Letters **WBIQ** Channel **39**  
 Location **Birmingham, AL**  
 Customer **Alabama PTV**  
 Antenna Type **TFU-27JSC/VP-R 4C210**

### TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **4C210SP-H**

Angle	Field														
0	0.715	45	0.588	90	0.484	135	0.455	180	0.867	225	0.899	270	0.632	315	0.712
1	0.717	46	0.577	91	0.480	136	0.458	181	0.882	226	0.906	271	0.624	316	0.726
2	0.718	47	0.566	92	0.477	137	0.461	182	0.896	227	0.913	272	0.615	317	0.740
3	0.721	48	0.555	93	0.473	138	0.464	183	0.910	228	0.920	273	0.607	318	0.753
4	0.724	49	0.544	94	0.469	139	0.467	184	0.923	229	0.926	274	0.599	319	0.765
5	0.729	50	0.533	95	0.465	140	0.470	185	0.935	230	0.933	275	0.591	320	0.777
6	0.733	51	0.523	96	0.460	141	0.473	186	0.947	231	0.938	276	0.582	321	0.788
7	0.737	52	0.512	97	0.456	142	0.476	187	0.957	232	0.944	277	0.574	322	0.799
8	0.742	53	0.503	98	0.452	143	0.479	188	0.967	233	0.948	278	0.566	323	0.808
9	0.747	54	0.494	99	0.448	144	0.482	189	0.975	234	0.951	279	0.558	324	0.817
10	0.752	55	0.486	100	0.444	145	0.486	190	0.983	235	0.953	280	0.550	325	0.824
11	0.757	56	0.478	101	0.440	146	0.490	191	0.988	236	0.955	281	0.542	326	0.832
12	0.761	57	0.471	102	0.436	147	0.494	192	0.993	237	0.954	282	0.534	327	0.837
13	0.765	58	0.465	103	0.433	148	0.498	193	0.996	238	0.953	283	0.527	328	0.842
14	0.769	59	0.460	104	0.430	149	0.502	194	0.999	239	0.950	284	0.519	329	0.846
15	0.771	60	0.456	105	0.427	150	0.507	195	1.000	240	0.947	285	0.513	330	0.849
16	0.774	61	0.453	106	0.424	151	0.512	196	1.000	241	0.941	286	0.506	331	0.851
17	0.775	62	0.451	107	0.422	152	0.518	197	0.998	242	0.936	287	0.501	332	0.853
18	0.777	63	0.450	108	0.420	153	0.524	198	0.996	243	0.928	288	0.495	333	0.852
19	0.777	64	0.450	109	0.419	154	0.530	199	0.991	244	0.921	289	0.491	334	0.852
20	0.777	65	0.451	110	0.417	155	0.537	200	0.987	245	0.911	290	0.487	335	0.849
21	0.775	66	0.452	111	0.416	156	0.544	201	0.981	246	0.902	291	0.485	336	0.847
22	0.774	67	0.455	112	0.415	157	0.552	202	0.974	247	0.891	292	0.483	337	0.843
23	0.771	68	0.457	113	0.415	158	0.560	203	0.966	248	0.879	293	0.483	338	0.839
24	0.768	69	0.461	114	0.415	159	0.570	204	0.958	249	0.867	294	0.483	339	0.834
25	0.763	70	0.464	115	0.415	160	0.579	205	0.949	250	0.855	295	0.486	340	0.828
26	0.759	71	0.468	116	0.415	161	0.590	206	0.940	251	0.842	296	0.489	341	0.821
27	0.753	72	0.472	117	0.416	162	0.600	207	0.931	252	0.830	297	0.494	342	0.814
28	0.748	73	0.476	118	0.417	163	0.612	208	0.922	253	0.817	298	0.499	343	0.807
29	0.741	74	0.480	119	0.418	164	0.624	209	0.913	254	0.803	299	0.506	344	0.799
30	0.734	75	0.483	120	0.420	165	0.637	210	0.905	255	0.791	300	0.513	345	0.791
31	0.726	76	0.487	121	0.421	166	0.650	211	0.897	256	0.778	301	0.523	346	0.783
32	0.719	77	0.489	122	0.423	167	0.664	212	0.889	257	0.765	302	0.533	347	0.775
33	0.710	78	0.492	123	0.425	168	0.678	213	0.884	258	0.753	303	0.544	348	0.767
34	0.702	79	0.494	124	0.427	169	0.693	214	0.878	259	0.741	304	0.556	349	0.759
35	0.692	80	0.496	125	0.429	170	0.708	215	0.874	260	0.729	305	0.569	350	0.751
36	0.683	81	0.497	126	0.431	171	0.724	216	0.871	261	0.718	306	0.582	351	0.745
37	0.673	82	0.498	127	0.434	172	0.739	217	0.870	262	0.707	307	0.596	352	0.738
38	0.664	83	0.497	128	0.436	173	0.755	218	0.869	263	0.697	308	0.610	353	0.732
39	0.653	84	0.497	129	0.439	174	0.771	219	0.871	264	0.686	309	0.624	354	0.727
40	0.643	85	0.496	130	0.441	175	0.788	220	0.873	265	0.677	310	0.639	355	0.723
41	0.632	86	0.494	131	0.444	176	0.804	221	0.877	266	0.667	311	0.654	356	0.719
42	0.622	87	0.492	132	0.447	177	0.820	222	0.881	267	0.658	312	0.669	357	0.717
43	0.611	88	0.490	133	0.449	178	0.836	223	0.887	268	0.649	313	0.683	358	0.715
44	0.600	89	0.487	134	0.452	179	0.852	224	0.892	269	0.641	314	0.698	359	0.715

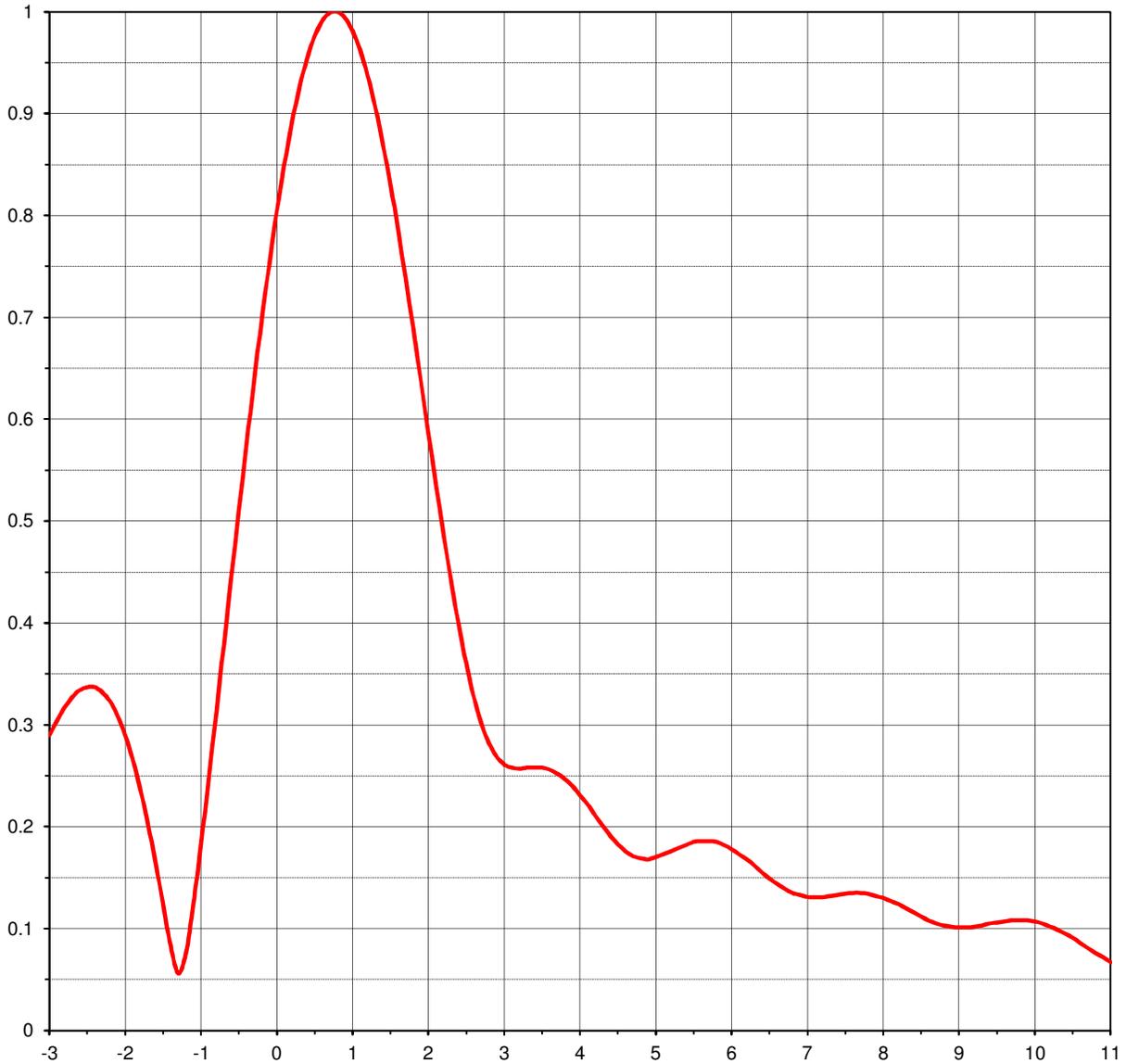
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Proposal Number **C-04593**  
Date **1-Apr-11**  
Call Letters **WBIQ** Channel **39**  
Location **Birmingham, AL**  
Customer **Alabama PTV**  
Antenna Type **TFU-27JSC/VP-R 4C210**

### ELEVATION PATTERN

RMS Gain at Main Lobe	<b>23.00 ( 13.62 dB )</b>	Beam Tilt	<b>0.75 deg</b>
RMS Gain at Horizontal	<b>14.90 ( 11.73 dB )</b>	Frequency	<b>623.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>27Z230075</b>



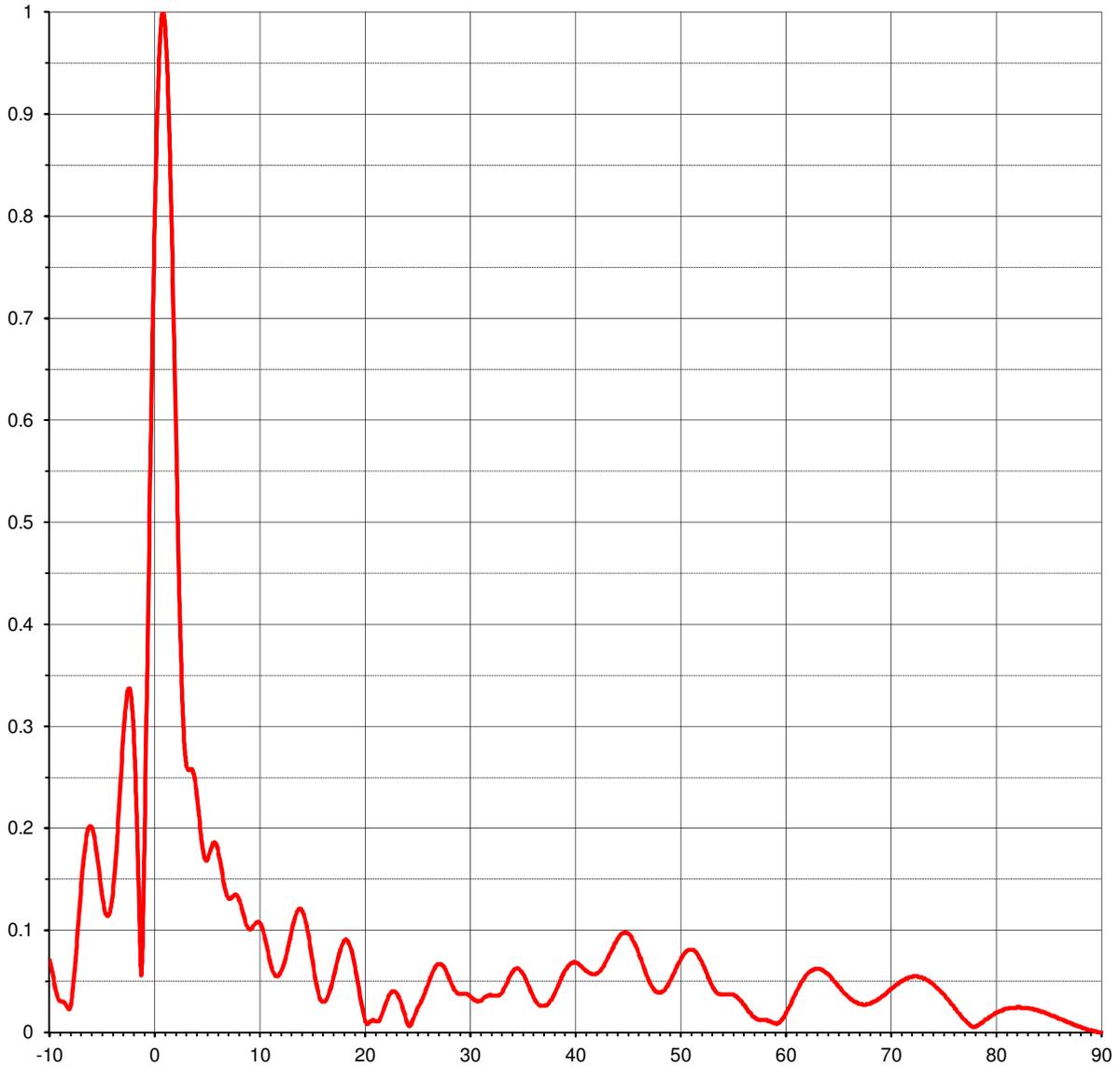
Degrees Below Horizontal



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Call Letters **WBIQ** Channel **39**  
Location **Birmingham, AL**  
Customer **Alabama PTV**  
Antenna Type **TFU-27JSC/VP-R 4C210**

### ELEVATION PATTERN

RMS Gain at Main Lobe	<b>23.00 ( 13.62 dB )</b>	Beam Tilt	<b>0.75 deg</b>
RMS Gain at Horizontal	<b>14.90 ( 11.73 dB )</b>	Frequency	<b>623.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>27Z230075-90</b>





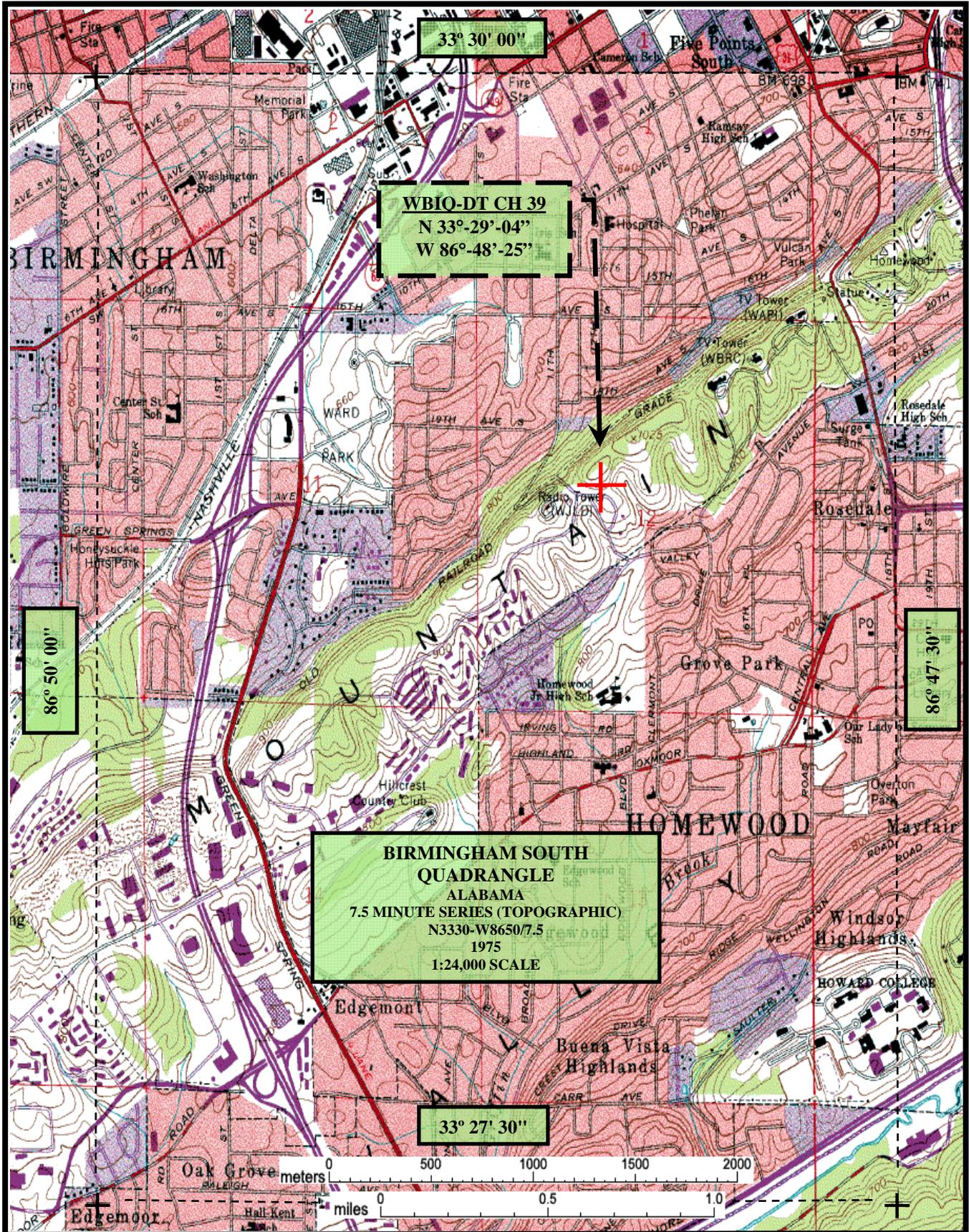
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 Customer **Alabama PTV**  
 Antenna Type **TFU-27JSC/VP-R 4C210**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **27Z230075-90**

Angle	Field										
-10.0	0.071	2.4	0.398	10.6	0.091	30.5	0.032	51.0	0.081	71.5	0.053
-9.5	0.045	2.6	0.327	10.8	0.081	31.0	0.031	51.5	0.079	72.0	0.054
-9.0	0.031	2.8	0.282	11.0	0.072	31.5	0.035	52.0	0.071	72.5	0.055
-8.5	0.028	3.0	0.261	11.5	0.056	32.0	0.037	52.5	0.059	73.0	0.053
-8.0	0.027	3.2	0.257	12.0	0.058	32.5	0.036	53.0	0.047	73.5	0.051
-7.5	0.077	3.4	0.258	12.5	0.072	33.0	0.038	53.5	0.039	74.0	0.047
-7.0	0.144	3.6	0.256	13.0	0.095	33.5	0.047	54.0	0.037	74.5	0.042
-6.5	0.192	3.8	0.247	13.5	0.115	34.0	0.058	54.5	0.037	75.0	0.037
-6.0	0.201	4.0	0.231	14.0	0.121	34.5	0.063	55.0	0.037	75.5	0.031
-5.5	0.173	4.2	0.211	14.5	0.106	35.0	0.059	55.5	0.034	76.0	0.024
-5.0	0.133	4.4	0.191	15.0	0.075	35.5	0.049	56.0	0.028	76.5	0.018
-4.5	0.114	4.6	0.176	15.5	0.045	36.0	0.037	56.5	0.021	77.0	0.012
-4.0	0.137	4.8	0.169	16.0	0.030	36.5	0.028	57.0	0.015	77.5	0.007
-3.5	0.205	5.0	0.170	16.5	0.034	37.0	0.026	57.5	0.012	78.0	0.006
-3.0	0.290	5.2	0.176	17.0	0.051	37.5	0.028	58.0	0.012	78.5	0.009
-2.8	0.317	5.4	0.182	17.5	0.072	38.0	0.036	58.5	0.011	79.0	0.013
-2.6	0.334	5.6	0.186	18.0	0.088	38.5	0.047	59.0	0.009	79.5	0.016
-2.4	0.337	5.8	0.185	18.5	0.088	39.0	0.059	59.5	0.010	80.0	0.019
-2.2	0.323	6.0	0.178	19.0	0.071	39.5	0.066	60.0	0.017	80.5	0.021
-2.0	0.290	6.2	0.168	19.5	0.042	40.0	0.069	60.5	0.027	81.0	0.023
-1.8	0.237	6.4	0.155	20.0	0.015	40.5	0.066	61.0	0.038	81.5	0.024
-1.6	0.165	6.6	0.144	20.5	0.010	41.0	0.061	61.5	0.048	82.0	0.025
-1.4	0.083	6.8	0.135	21.0	0.011	41.5	0.058	62.0	0.056	82.5	0.024
-1.2	0.075	7.0	0.131	21.5	0.013	42.0	0.057	62.5	0.060	83.0	0.024
-1.0	0.183	7.2	0.131	22.0	0.027	42.5	0.061	63.0	0.062	83.5	0.023
-0.8	0.311	7.4	0.133	22.5	0.038	43.0	0.070	63.5	0.061	84.0	0.021
-0.6	0.444	7.6	0.135	23.0	0.039	43.5	0.080	64.0	0.058	84.5	0.020
-0.4	0.575	7.8	0.134	23.5	0.029	44.0	0.090	64.5	0.051	85.0	0.018
-0.2	0.697	8.0	0.130	24.0	0.012	44.5	0.097	65.0	0.045	85.5	0.016
0.0	0.804	8.2	0.124	24.5	0.009	45.0	0.097	65.5	0.039	86.0	0.013
0.2	0.891	8.4	0.116	25.0	0.022	45.5	0.091	66.0	0.034	86.5	0.011
0.4	0.954	8.6	0.108	25.5	0.032	46.0	0.080	66.5	0.030	87.0	0.009
0.6	0.991	8.8	0.103	26.0	0.045	46.5	0.066	67.0	0.028	87.5	0.007
0.8	1.000	9.0	0.101	26.5	0.059	47.0	0.052	67.5	0.027	88.0	0.005
1.0	0.981	9.2	0.102	27.0	0.067	47.5	0.043	68.0	0.028	88.5	0.003
1.2	0.937	9.4	0.105	27.5	0.065	48.0	0.039	68.5	0.031	89.0	0.002
1.4	0.870	9.6	0.107	28.0	0.055	48.5	0.041	69.0	0.034	89.5	0.001
1.6	0.786	9.8	0.108	28.5	0.043	49.0	0.049	69.5	0.038	90.0	0.000
1.8	0.689	10.0	0.108	29.0	0.038	49.5	0.059	70.0	0.043		
2.0	0.587	10.2	0.105	29.5	0.038	50.0	0.070	70.5	0.047		
2.2	0.487	10.4	0.099	30.0	0.036	50.5	0.078	71.0	0.050		

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33° 30' 00"

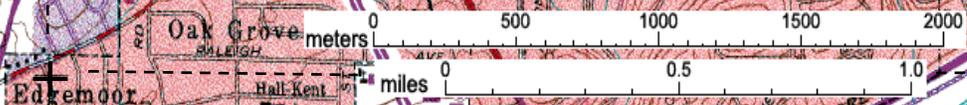
**WBIQ-DT CH 39**  
 N 33°-29'-04"  
 W 86°-48'-25"

86° 50' 00"

86° 47' 30"

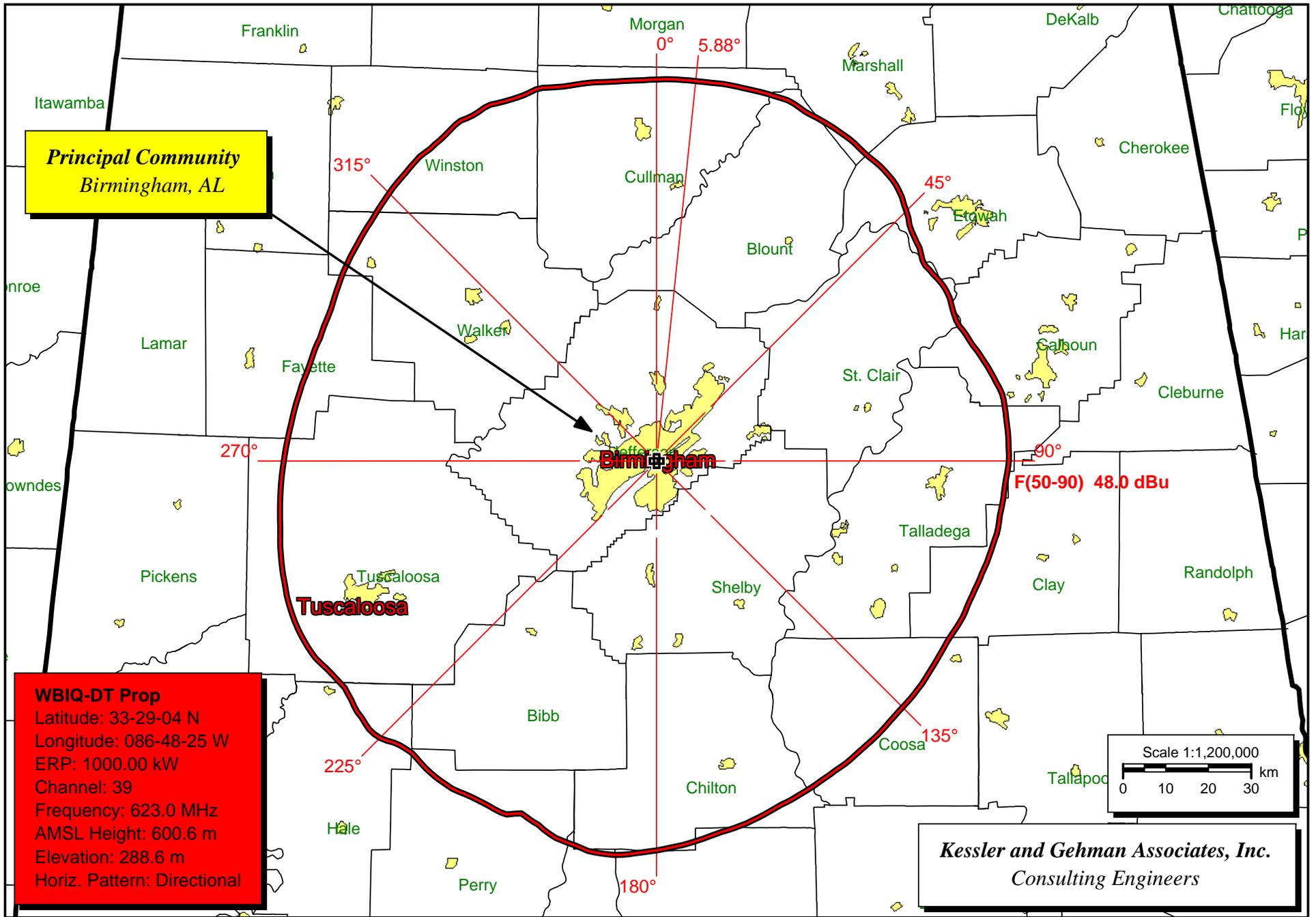
**BIRMINGHAM SOUTH  
 QUADRANGLE**  
 ALABAMA  
 7.5 MINUTE SERIES (TOPOGRAPHIC)  
 N3330-W8650/7.5  
 1975  
 1:24,000 SCALE

33° 27' 30"

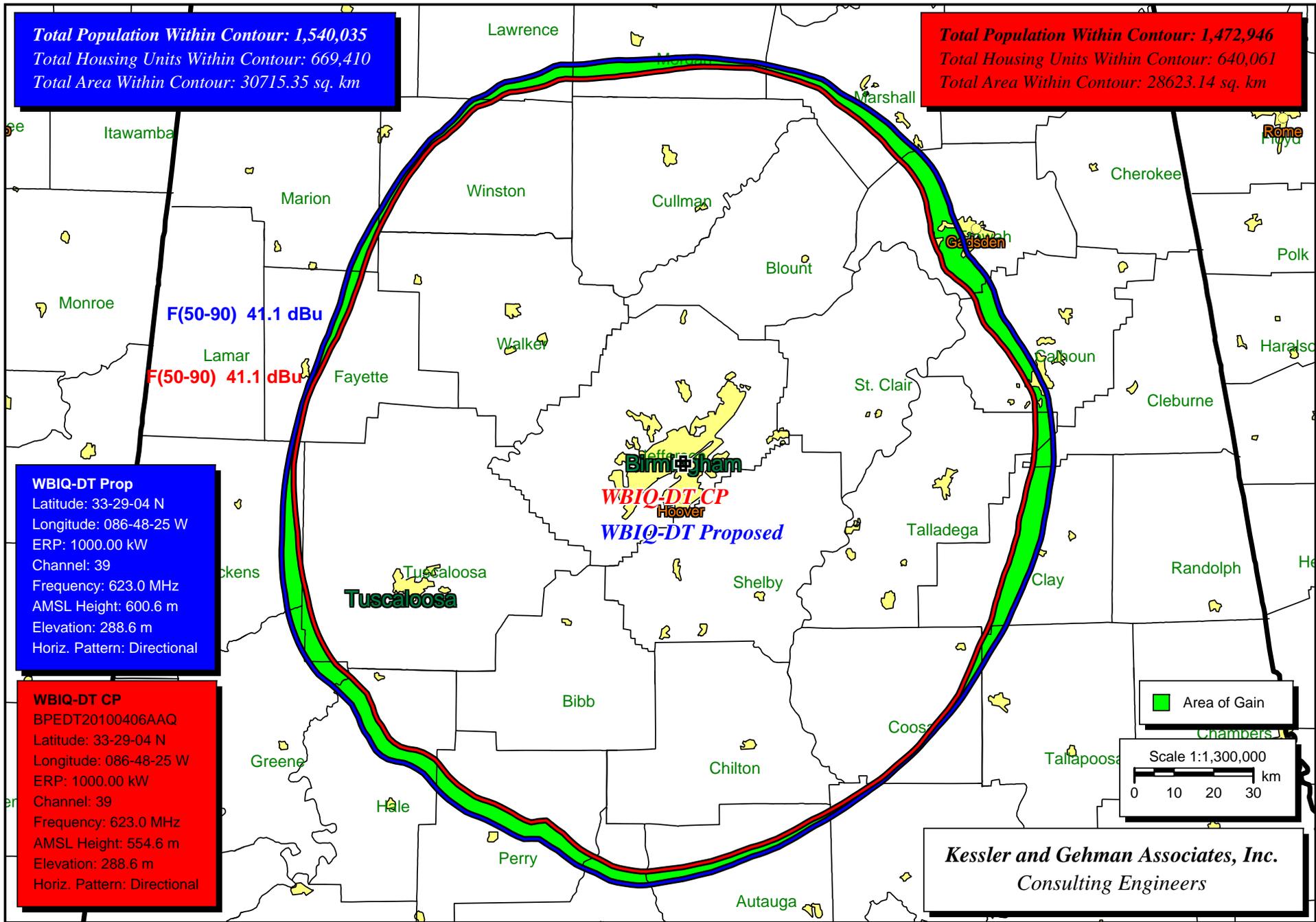


**KESSLER AND GEHMAN**  
 TELECOMMUNICATIONS CONSULTING ENGINEERS  
 507 N.W. 60th Street, Suite C  
 Gainesville, Florida 32607

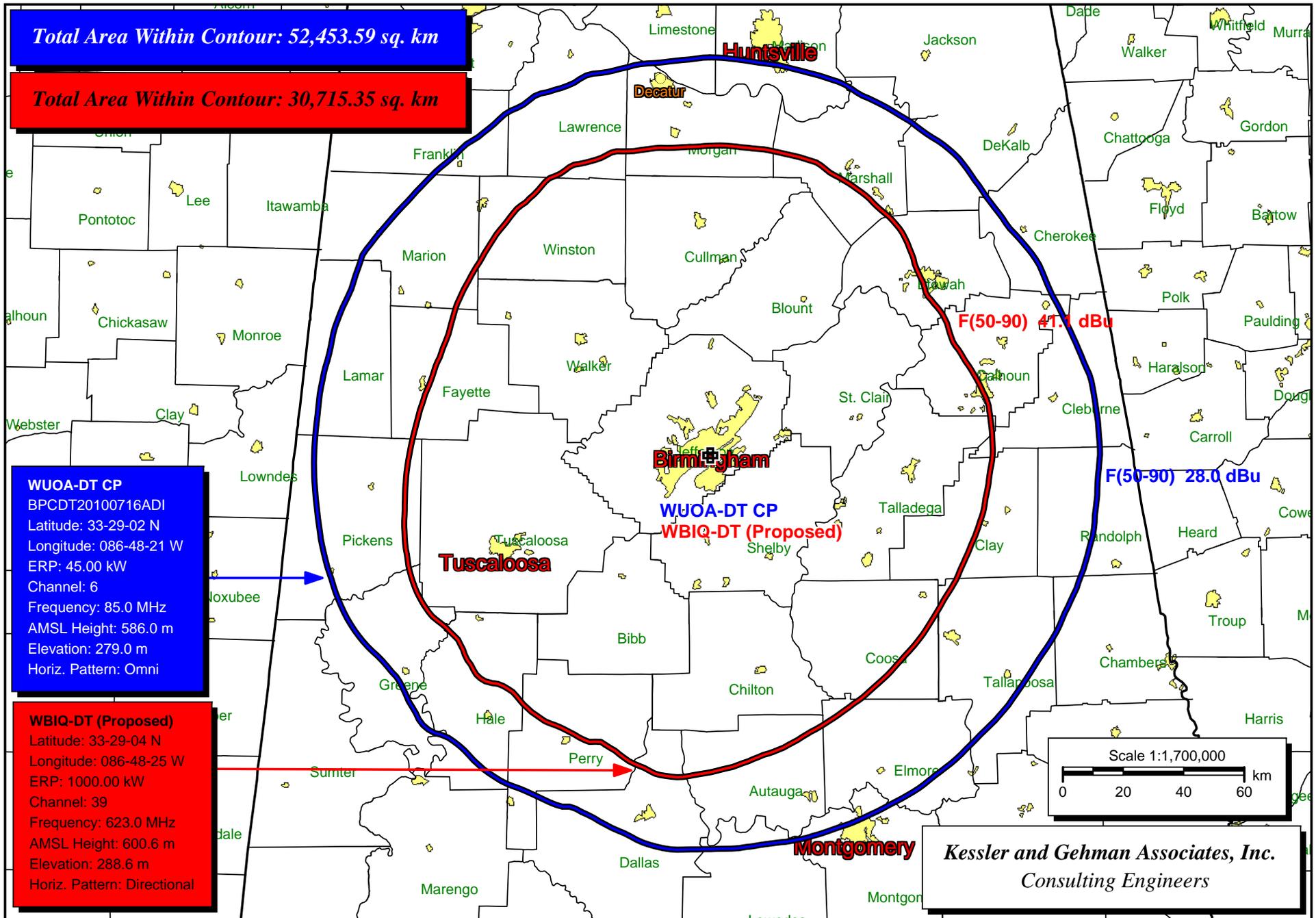
**WBIQ-DT CHANNEL 39**  
 BIRMINGHAM, ALABAMA  
 20110922 EXHIBIT 9



Principal Community Showing



WBIQ-DT Channel 39 CP vs. WBIQ-DT Channel 39 Proposed



Largest Station in Market

EXHIBIT 12

Percent allowed new interference: 0.500  
 Percent allowed new interference to non Class A LPTV: 2.000  
 Census data selected 2000  
 Data Base Selected  
 ./data\_files/pt\_tvdb.sff  
 TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-21-2011 Time: 14:05:09

Record Selected for Analysis

WBIQ-DT USERRECORD-01 BIRMINGHAM AL US  
 Channel 39 ERP 1000. kW HAAT 411. m RCAMSL 00600 m  
 Latitude 033-29-04 Longitude 0086-48-25  
 Status APP Zone 2 Border Site number: 01  
 Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.  
 Last update Cutoff date Docket  
 Comments  
 Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) does not meet maximum height/power limits  
 Channel 39 ERP = 1000.00 HAAT = 411.

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	511.225	433.0	102.4	
45.0	345.744	366.8	94.2	
90.0	234.256	403.8	93.7	
135.0	207.480	399.2	92.5	
180.0	751.689	417.0	104.8	
225.0	815.409	412.7	105.2	
270.0	399.424	428.7	99.8	
315.0	501.264	423.0	101.4	

Evaluation toward Class A Stations from site # 01

Contour overlap to Class A station  
 W39CD 39 FULTON MS BPTTA 20100601AGO  
 D/U ratio at contour 27.27 dB  
 Offset Proposed Offset Class A - Required D/U ratio: 34.0  
 Radial 0.0 degrees  
 Bearing to point on contour 304.5 degrees  
 D/U ratio at contour 27.19 dB

Radial 1.0 degrees  
Bearing to point on contour 304.6 degrees  
D/U ratio at contour 27.11 dB  
Radial 2.0 degrees  
Bearing to point on contour 304.7 degrees  
D/U ratio at contour 27.02 dB  
Radial 3.0 degrees  
Bearing to point on contour 304.8 degrees  
D/U ratio at contour 26.93 dB  
Radial 4.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 26.85 dB  
Radial 5.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 26.76 dB  
Radial 6.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 26.66 dB  
Radial 7.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 26.57 dB  
Radial 8.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 26.48 dB  
Radial 9.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 26.39 dB  
Radial 10.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 26.30 dB  
Radial 11.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 26.20 dB  
Radial 12.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 26.12 dB  
Radial 13.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 26.03 dB  
Radial 14.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 25.94 dB  
Radial 15.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 25.85 dB  
Radial 16.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 25.77 dB  
Radial 17.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 25.68 dB  
Radial 18.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 25.60 dB  
Radial 19.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 25.51 dB

Radial 20.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 25.43 dB  
Radial 21.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 25.34 dB  
Radial 22.0 degrees  
Bearing to point on contour 305.2 degrees  
D/U ratio at contour 25.25 dB  
Radial 23.0 degrees  
Bearing to point on contour 305.2 degrees  
D/U ratio at contour 25.17 dB  
Radial 24.0 degrees  
Bearing to point on contour 305.2 degrees  
D/U ratio at contour 25.09 dB  
Radial 25.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 25.02 dB  
Radial 26.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 24.94 dB  
Radial 27.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 24.85 dB  
Radial 28.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 24.76 dB  
Radial 29.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 24.68 dB  
Radial 30.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 24.60 dB  
Radial 31.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 24.52 dB  
Radial 32.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 24.44 dB  
Radial 33.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 24.36 dB  
Radial 34.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 24.28 dB  
Radial 35.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 24.20 dB  
Radial 36.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 24.11 dB  
Radial 37.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 24.03 dB  
Radial 38.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 23.95 dB

Radial 39.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 23.86 dB  
Radial 40.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 23.78 dB  
Radial 41.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 23.70 dB  
Radial 42.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 23.64 dB  
Radial 43.0 degrees  
Bearing to point on contour 304.8 degrees  
D/U ratio at contour 23.57 dB  
Radial 44.0 degrees  
Bearing to point on contour 304.7 degrees  
D/U ratio at contour 23.51 dB  
Radial 45.0 degrees  
Bearing to point on contour 304.6 degrees  
D/U ratio at contour 23.43 dB  
Radial 46.0 degrees  
Bearing to point on contour 304.6 degrees  
D/U ratio at contour 23.35 dB  
Radial 47.0 degrees  
Bearing to point on contour 304.5 degrees  
D/U ratio at contour 23.28 dB  
Radial 48.0 degrees  
Bearing to point on contour 304.5 degrees  
D/U ratio at contour 23.22 dB  
Radial 49.0 degrees  
Bearing to point on contour 304.4 degrees  
D/U ratio at contour 23.14 dB  
Radial 50.0 degrees  
Bearing to point on contour 304.3 degrees  
D/U ratio at contour 23.06 dB  
Radial 51.0 degrees  
Bearing to point on contour 304.3 degrees  
D/U ratio at contour 22.96 dB  
Radial 52.0 degrees  
Bearing to point on contour 304.3 degrees  
D/U ratio at contour 22.88 dB  
Radial 53.0 degrees  
Bearing to point on contour 304.3 degrees  
D/U ratio at contour 22.78 dB  
Radial 54.0 degrees  
Bearing to point on contour 304.3 degrees  
D/U ratio at contour 22.70 dB  
Radial 55.0 degrees  
Bearing to point on contour 304.2 degrees  
D/U ratio at contour 22.64 dB  
Radial 56.0 degrees  
Bearing to point on contour 304.1 degrees  
D/U ratio at contour 22.58 dB  
Radial 57.0 degrees  
Bearing to point on contour 304.0 degrees  
D/U ratio at contour 22.53 dB

Radial 58.0 degrees  
Bearing to point on contour 303.9 degrees  
D/U ratio at contour 22.45 dB  
Radial 59.0 degrees  
Bearing to point on contour 303.8 degrees  
D/U ratio at contour 22.39 dB  
Radial 60.0 degrees  
Bearing to point on contour 303.8 degrees  
D/U ratio at contour 22.31 dB  
Radial 61.0 degrees  
Bearing to point on contour 303.7 degrees  
D/U ratio at contour 22.24 dB  
Radial 62.0 degrees  
Bearing to point on contour 303.6 degrees  
D/U ratio at contour 22.18 dB  
Radial 63.0 degrees  
Bearing to point on contour 303.6 degrees  
D/U ratio at contour 22.13 dB  
Radial 64.0 degrees  
Bearing to point on contour 303.4 degrees  
D/U ratio at contour 22.07 dB  
Radial 65.0 degrees  
Bearing to point on contour 303.4 degrees  
D/U ratio at contour 22.00 dB  
Radial 66.0 degrees  
Bearing to point on contour 303.3 degrees  
D/U ratio at contour 21.93 dB  
Radial 67.0 degrees  
Bearing to point on contour 303.2 degrees  
D/U ratio at contour 21.85 dB  
Radial 68.0 degrees  
Bearing to point on contour 303.1 degrees  
D/U ratio at contour 21.78 dB  
Radial 69.0 degrees  
Bearing to point on contour 303.1 degrees  
D/U ratio at contour 21.74 dB  
Radial 70.0 degrees  
Bearing to point on contour 302.9 degrees  
D/U ratio at contour 21.72 dB  
Radial 71.0 degrees  
Bearing to point on contour 302.8 degrees  
D/U ratio at contour 21.69 dB  
Radial 72.0 degrees  
Bearing to point on contour 302.6 degrees  
D/U ratio at contour 21.61 dB  
Radial 73.0 degrees  
Bearing to point on contour 302.5 degrees  
D/U ratio at contour 21.53 dB  
Radial 74.0 degrees  
Bearing to point on contour 302.5 degrees  
D/U ratio at contour 21.45 dB  
Radial 75.0 degrees  
Bearing to point on contour 302.4 degrees  
D/U ratio at contour 21.35 dB  
Radial 76.0 degrees  
Bearing to point on contour 302.3 degrees  
D/U ratio at contour 21.29 dB

Radial 77.0 degrees  
Bearing to point on contour 302.2 degrees  
D/U ratio at contour 21.22 dB  
Radial 78.0 degrees  
Bearing to point on contour 302.2 degrees  
D/U ratio at contour 21.19 dB  
Radial 79.0 degrees  
Bearing to point on contour 302.0 degrees  
D/U ratio at contour 21.18 dB  
Radial 80.0 degrees  
Bearing to point on contour 301.8 degrees  
D/U ratio at contour 21.16 dB  
Radial 81.0 degrees  
Bearing to point on contour 301.7 degrees  
D/U ratio at contour 21.12 dB  
Radial 82.0 degrees  
Bearing to point on contour 301.5 degrees  
D/U ratio at contour 21.09 dB  
Radial 83.0 degrees  
Bearing to point on contour 301.4 degrees  
D/U ratio at contour 21.03 dB  
Radial 84.0 degrees  
Bearing to point on contour 301.3 degrees  
D/U ratio at contour 20.96 dB  
Radial 85.0 degrees  
Bearing to point on contour 301.2 degrees  
D/U ratio at contour 20.88 dB  
Radial 86.0 degrees  
Bearing to point on contour 301.1 degrees  
D/U ratio at contour 20.83 dB  
Radial 87.0 degrees  
Bearing to point on contour 300.9 degrees  
D/U ratio at contour 20.76 dB  
Radial 88.0 degrees  
Bearing to point on contour 300.8 degrees  
D/U ratio at contour 20.73 dB  
Radial 89.0 degrees  
Bearing to point on contour 300.7 degrees  
D/U ratio at contour 20.72 dB  
Radial 90.0 degrees  
Bearing to point on contour 300.5 degrees  
D/U ratio at contour 20.73 dB  
Radial 91.0 degrees  
Bearing to point on contour 300.3 degrees  
D/U ratio at contour 20.73 dB  
Radial 92.0 degrees  
Bearing to point on contour 300.1 degrees  
D/U ratio at contour 20.73 dB  
Radial 93.0 degrees  
Bearing to point on contour 300.0 degrees  
D/U ratio at contour 20.68 dB  
Radial 94.0 degrees  
Bearing to point on contour 299.8 degrees  
D/U ratio at contour 20.65 dB  
Radial 95.0 degrees  
Bearing to point on contour 299.7 degrees  
D/U ratio at contour 20.62 dB

Radial 96.0 degrees  
Bearing to point on contour 299.5 degrees  
D/U ratio at contour 20.61 dB  
Radial 97.0 degrees  
Bearing to point on contour 299.3 degrees  
D/U ratio at contour 20.60 dB  
Radial 98.0 degrees  
Bearing to point on contour 299.1 degrees  
D/U ratio at contour 20.59 dB  
Radial 99.0 degrees  
Bearing to point on contour 299.0 degrees  
D/U ratio at contour 20.58 dB  
Radial 100.0 degrees  
Bearing to point on contour 298.8 degrees  
D/U ratio at contour 20.58 dB  
Radial 101.0 degrees  
Bearing to point on contour 298.6 degrees  
D/U ratio at contour 20.58 dB  
Radial 102.0 degrees  
Bearing to point on contour 298.4 degrees  
D/U ratio at contour 20.55 dB  
Radial 103.0 degrees  
Bearing to point on contour 298.2 degrees  
D/U ratio at contour 20.52 dB  
Radial 104.0 degrees  
Bearing to point on contour 298.0 degrees  
D/U ratio at contour 20.53 dB  
Radial 105.0 degrees  
Bearing to point on contour 297.9 degrees  
D/U ratio at contour 20.53 dB  
Radial 106.0 degrees  
Bearing to point on contour 297.7 degrees  
D/U ratio at contour 20.52 dB  
Radial 107.0 degrees  
Bearing to point on contour 297.5 degrees  
D/U ratio at contour 20.52 dB  
Radial 108.0 degrees  
Bearing to point on contour 297.3 degrees  
D/U ratio at contour 20.53 dB  
Radial 109.0 degrees  
Bearing to point on contour 297.1 degrees  
D/U ratio at contour 20.53 dB  
Radial 110.0 degrees  
Bearing to point on contour 296.9 degrees  
D/U ratio at contour 20.56 dB  
Radial 111.0 degrees  
Bearing to point on contour 296.7 degrees  
D/U ratio at contour 20.60 dB  
Radial 112.0 degrees  
Bearing to point on contour 296.4 degrees  
D/U ratio at contour 20.65 dB  
Radial 113.0 degrees  
Bearing to point on contour 296.2 degrees  
D/U ratio at contour 20.71 dB  
Radial 114.0 degrees  
Bearing to point on contour 296.0 degrees  
D/U ratio at contour 20.74 dB

Radial 115.0 degrees  
Bearing to point on contour 295.8 degrees  
D/U ratio at contour 20.75 dB  
Radial 116.0 degrees  
Bearing to point on contour 295.6 degrees  
D/U ratio at contour 20.76 dB  
Radial 117.0 degrees  
Bearing to point on contour 295.4 degrees  
D/U ratio at contour 20.80 dB  
Radial 118.0 degrees  
Bearing to point on contour 295.2 degrees  
D/U ratio at contour 20.84 dB  
Radial 119.0 degrees  
Bearing to point on contour 295.0 degrees  
D/U ratio at contour 20.90 dB  
Radial 120.0 degrees  
Bearing to point on contour 294.8 degrees  
D/U ratio at contour 20.94 dB  
Radial 121.0 degrees  
Bearing to point on contour 294.6 degrees  
D/U ratio at contour 20.95 dB  
Radial 122.0 degrees  
Bearing to point on contour 294.4 degrees  
D/U ratio at contour 20.96 dB  
Radial 123.0 degrees  
Bearing to point on contour 294.2 degrees  
D/U ratio at contour 21.00 dB  
Radial 124.0 degrees  
Bearing to point on contour 294.0 degrees  
D/U ratio at contour 21.04 dB  
Radial 125.0 degrees  
Bearing to point on contour 293.8 degrees  
D/U ratio at contour 21.05 dB  
Radial 126.0 degrees  
Bearing to point on contour 293.6 degrees  
D/U ratio at contour 21.06 dB  
Radial 127.0 degrees  
Bearing to point on contour 293.4 degrees  
D/U ratio at contour 21.05 dB  
Radial 128.0 degrees  
Bearing to point on contour 293.2 degrees  
D/U ratio at contour 21.04 dB  
Radial 129.0 degrees  
Bearing to point on contour 293.0 degrees  
D/U ratio at contour 21.05 dB  
Radial 130.0 degrees  
Bearing to point on contour 292.8 degrees  
D/U ratio at contour 21.08 dB  
Radial 131.0 degrees  
Bearing to point on contour 292.6 degrees  
D/U ratio at contour 21.10 dB  
Radial 132.0 degrees  
Bearing to point on contour 292.4 degrees  
D/U ratio at contour 21.15 dB  
Radial 133.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 21.19 dB

Radial 134.0 degrees  
Bearing to point on contour 292.0 degrees  
D/U ratio at contour 21.23 dB  
Radial 135.0 degrees  
Bearing to point on contour 291.8 degrees  
D/U ratio at contour 21.29 dB  
Radial 136.0 degrees  
Bearing to point on contour 291.7 degrees  
D/U ratio at contour 21.35 dB  
Radial 137.0 degrees  
Bearing to point on contour 291.5 degrees  
D/U ratio at contour 21.37 dB  
Radial 138.0 degrees  
Bearing to point on contour 291.3 degrees  
D/U ratio at contour 21.42 dB  
Radial 139.0 degrees  
Bearing to point on contour 291.1 degrees  
D/U ratio at contour 21.50 dB  
Radial 140.0 degrees  
Bearing to point on contour 291.0 degrees  
D/U ratio at contour 21.55 dB  
Radial 141.0 degrees  
Bearing to point on contour 290.8 degrees  
D/U ratio at contour 21.59 dB  
Radial 142.0 degrees  
Bearing to point on contour 290.6 degrees  
D/U ratio at contour 21.63 dB  
Radial 143.0 degrees  
Bearing to point on contour 290.4 degrees  
D/U ratio at contour 21.68 dB  
Radial 144.0 degrees  
Bearing to point on contour 290.2 degrees  
D/U ratio at contour 21.74 dB  
Radial 145.0 degrees  
Bearing to point on contour 290.1 degrees  
D/U ratio at contour 21.82 dB  
Radial 146.0 degrees  
Bearing to point on contour 290.0 degrees  
D/U ratio at contour 21.88 dB  
Radial 147.0 degrees  
Bearing to point on contour 289.8 degrees  
D/U ratio at contour 21.91 dB  
Radial 148.0 degrees  
Bearing to point on contour 289.7 degrees  
D/U ratio at contour 21.92 dB  
Radial 149.0 degrees  
Bearing to point on contour 289.5 degrees  
D/U ratio at contour 21.92 dB  
Radial 150.0 degrees  
Bearing to point on contour 289.3 degrees  
D/U ratio at contour 21.96 dB  
Radial 151.0 degrees  
Bearing to point on contour 289.1 degrees  
D/U ratio at contour 21.99 dB  
Radial 152.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 22.03 dB

Radial 153.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 22.10 dB  
Radial 154.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 22.14 dB  
Radial 155.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 22.18 dB  
Radial 156.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 22.25 dB  
Radial 157.0 degrees  
Bearing to point on contour 288.2 degrees  
D/U ratio at contour 22.31 dB  
Radial 158.0 degrees  
Bearing to point on contour 288.0 degrees  
D/U ratio at contour 22.37 dB  
Radial 159.0 degrees  
Bearing to point on contour 287.9 degrees  
D/U ratio at contour 22.47 dB  
Radial 160.0 degrees  
Bearing to point on contour 287.8 degrees  
D/U ratio at contour 22.57 dB  
Radial 161.0 degrees  
Bearing to point on contour 287.8 degrees  
D/U ratio at contour 22.66 dB  
Radial 162.0 degrees  
Bearing to point on contour 287.7 degrees  
D/U ratio at contour 22.75 dB  
Radial 163.0 degrees  
Bearing to point on contour 287.6 degrees  
D/U ratio at contour 22.83 dB  
Radial 164.0 degrees  
Bearing to point on contour 287.5 degrees  
D/U ratio at contour 22.94 dB  
Radial 165.0 degrees  
Bearing to point on contour 287.5 degrees  
D/U ratio at contour 23.00 dB  
Radial 166.0 degrees  
Bearing to point on contour 287.4 degrees  
D/U ratio at contour 23.05 dB  
Radial 167.0 degrees  
Bearing to point on contour 287.2 degrees  
D/U ratio at contour 23.10 dB  
Radial 168.0 degrees  
Bearing to point on contour 287.0 degrees  
D/U ratio at contour 23.18 dB  
Radial 169.0 degrees  
Bearing to point on contour 286.9 degrees  
D/U ratio at contour 23.28 dB  
Radial 170.0 degrees  
Bearing to point on contour 286.9 degrees  
D/U ratio at contour 23.36 dB  
Radial 171.0 degrees  
Bearing to point on contour 286.8 degrees  
D/U ratio at contour 23.43 dB

Radial 172.0 degrees  
Bearing to point on contour 286.7 degrees  
D/U ratio at contour 23.50 dB  
Radial 173.0 degrees  
Bearing to point on contour 286.6 degrees  
D/U ratio at contour 23.56 dB  
Radial 174.0 degrees  
Bearing to point on contour 286.4 degrees  
D/U ratio at contour 23.63 dB  
Radial 175.0 degrees  
Bearing to point on contour 286.3 degrees  
D/U ratio at contour 23.71 dB  
Radial 176.0 degrees  
Bearing to point on contour 286.2 degrees  
D/U ratio at contour 23.80 dB  
Radial 177.0 degrees  
Bearing to point on contour 286.1 degrees  
D/U ratio at contour 23.88 dB  
Radial 178.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 23.96 dB  
Radial 179.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 24.06 dB  
Radial 180.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 24.14 dB  
Radial 181.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 24.23 dB  
Radial 182.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 24.32 dB  
Radial 183.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 24.42 dB  
Radial 184.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 24.51 dB  
Radial 185.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 24.61 dB  
Radial 186.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 24.71 dB  
Radial 187.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 24.81 dB  
Radial 188.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 24.91 dB  
Radial 189.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 25.01 dB  
Radial 190.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 25.10 dB

Radial 191.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 25.19 dB  
Radial 192.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 25.28 dB  
Radial 193.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 25.37 dB  
Radial 194.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 25.46 dB  
Radial 195.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 25.55 dB  
Radial 196.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 25.65 dB  
Radial 197.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 25.73 dB  
Radial 198.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 25.82 dB  
Radial 199.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 25.90 dB  
Radial 200.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 25.99 dB  
Radial 201.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 26.08 dB  
Radial 202.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 26.16 dB  
Radial 203.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 26.25 dB  
Radial 204.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 26.34 dB  
Radial 205.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 26.42 dB  
Radial 206.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 26.52 dB  
Radial 207.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 26.60 dB  
Radial 208.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 26.69 dB  
Radial 209.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 26.78 dB

Radial 210.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 26.87 dB  
Radial 211.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 26.96 dB  
Radial 212.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 27.06 dB  
Radial 213.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 27.15 dB  
Radial 214.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 27.25 dB  
Radial 215.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 27.34 dB  
Radial 216.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 27.43 dB  
Radial 217.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 27.52 dB  
Radial 218.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 27.62 dB  
Radial 219.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 27.71 dB  
Radial 220.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 27.80 dB  
Radial 221.0 degrees  
Bearing to point on contour 286.1 degrees  
D/U ratio at contour 27.87 dB  
Radial 222.0 degrees  
Bearing to point on contour 286.2 degrees  
D/U ratio at contour 27.96 dB  
Radial 223.0 degrees  
Bearing to point on contour 286.2 degrees  
D/U ratio at contour 28.04 dB  
Radial 224.0 degrees  
Bearing to point on contour 286.3 degrees  
D/U ratio at contour 28.13 dB  
Radial 225.0 degrees  
Bearing to point on contour 286.4 degrees  
D/U ratio at contour 28.21 dB  
Radial 226.0 degrees  
Bearing to point on contour 286.5 degrees  
D/U ratio at contour 28.29 dB  
Radial 227.0 degrees  
Bearing to point on contour 286.6 degrees  
D/U ratio at contour 28.38 dB  
Radial 228.0 degrees  
Bearing to point on contour 286.6 degrees  
D/U ratio at contour 28.46 dB

Radial 229.0 degrees  
Bearing to point on contour 286.7 degrees  
D/U ratio at contour 28.53 dB  
Radial 230.0 degrees  
Bearing to point on contour 286.9 degrees  
D/U ratio at contour 28.62 dB  
Radial 231.0 degrees  
Bearing to point on contour 286.9 degrees  
D/U ratio at contour 28.71 dB  
Radial 232.0 degrees  
Bearing to point on contour 287.0 degrees  
D/U ratio at contour 28.77 dB  
Radial 233.0 degrees  
Bearing to point on contour 287.1 degrees  
D/U ratio at contour 28.84 dB  
Radial 234.0 degrees  
Bearing to point on contour 287.3 degrees  
D/U ratio at contour 28.91 dB  
Radial 235.0 degrees  
Bearing to point on contour 287.4 degrees  
D/U ratio at contour 28.98 dB  
Radial 236.0 degrees  
Bearing to point on contour 287.5 degrees  
D/U ratio at contour 29.04 dB  
Radial 237.0 degrees  
Bearing to point on contour 287.6 degrees  
D/U ratio at contour 29.10 dB  
Radial 238.0 degrees  
Bearing to point on contour 287.8 degrees  
D/U ratio at contour 29.16 dB  
Radial 239.0 degrees  
Bearing to point on contour 287.9 degrees  
D/U ratio at contour 29.24 dB  
Radial 240.0 degrees  
Bearing to point on contour 288.0 degrees  
D/U ratio at contour 29.30 dB  
Radial 241.0 degrees  
Bearing to point on contour 288.1 degrees  
D/U ratio at contour 29.37 dB  
Radial 242.0 degrees  
Bearing to point on contour 288.2 degrees  
D/U ratio at contour 29.44 dB  
Radial 243.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 29.52 dB  
Radial 244.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 29.60 dB  
Radial 245.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 29.67 dB  
Radial 246.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 29.75 dB  
Radial 247.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 29.84 dB

Radial 248.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 29.93 dB  
Radial 249.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 30.02 dB  
Radial 250.0 degrees  
Bearing to point on contour 289.0 degrees  
D/U ratio at contour 30.11 dB  
Radial 251.0 degrees  
Bearing to point on contour 289.1 degrees  
D/U ratio at contour 30.20 dB  
Radial 252.0 degrees  
Bearing to point on contour 289.2 degrees  
D/U ratio at contour 30.28 dB  
Radial 253.0 degrees  
Bearing to point on contour 289.3 degrees  
D/U ratio at contour 30.36 dB  
Radial 254.0 degrees  
Bearing to point on contour 289.4 degrees  
D/U ratio at contour 30.44 dB  
Radial 255.0 degrees  
Bearing to point on contour 289.6 degrees  
D/U ratio at contour 30.51 dB  
Radial 256.0 degrees  
Bearing to point on contour 289.7 degrees  
D/U ratio at contour 30.59 dB  
Radial 257.0 degrees  
Bearing to point on contour 289.8 degrees  
D/U ratio at contour 30.66 dB  
Radial 258.0 degrees  
Bearing to point on contour 289.9 degrees  
D/U ratio at contour 30.74 dB  
Radial 259.0 degrees  
Bearing to point on contour 290.1 degrees  
D/U ratio at contour 30.80 dB  
Radial 260.0 degrees  
Bearing to point on contour 290.2 degrees  
D/U ratio at contour 30.87 dB  
Radial 261.0 degrees  
Bearing to point on contour 290.3 degrees  
D/U ratio at contour 30.93 dB  
Radial 262.0 degrees  
Bearing to point on contour 290.4 degrees  
D/U ratio at contour 30.99 dB  
Radial 263.0 degrees  
Bearing to point on contour 290.6 degrees  
D/U ratio at contour 31.05 dB  
Radial 264.0 degrees  
Bearing to point on contour 290.7 degrees  
D/U ratio at contour 31.10 dB  
Radial 265.0 degrees  
Bearing to point on contour 290.8 degrees  
D/U ratio at contour 31.17 dB  
Radial 266.0 degrees  
Bearing to point on contour 291.0 degrees  
D/U ratio at contour 31.22 dB

Radial 267.0 degrees  
Bearing to point on contour 291.1 degrees  
D/U ratio at contour 31.29 dB  
Radial 268.0 degrees  
Bearing to point on contour 291.2 degrees  
D/U ratio at contour 31.33 dB  
Radial 269.0 degrees  
Bearing to point on contour 291.4 degrees  
D/U ratio at contour 31.38 dB  
Radial 270.0 degrees  
Bearing to point on contour 291.5 degrees  
D/U ratio at contour 31.44 dB  
Radial 271.0 degrees  
Bearing to point on contour 291.7 degrees  
D/U ratio at contour 31.47 dB  
Radial 272.0 degrees  
Bearing to point on contour 291.9 degrees  
D/U ratio at contour 31.50 dB  
Radial 273.0 degrees  
Bearing to point on contour 292.0 degrees  
D/U ratio at contour 31.54 dB  
Radial 274.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 31.58 dB  
Radial 275.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 31.62 dB  
Radial 276.0 degrees  
Bearing to point on contour 292.5 degrees  
D/U ratio at contour 31.66 dB  
Radial 277.0 degrees  
Bearing to point on contour 292.7 degrees  
D/U ratio at contour 31.69 dB  
Radial 278.0 degrees  
Bearing to point on contour 292.8 degrees  
D/U ratio at contour 31.73 dB  
Radial 279.0 degrees  
Bearing to point on contour 293.0 degrees  
D/U ratio at contour 31.76 dB  
Radial 280.0 degrees  
Bearing to point on contour 293.2 degrees  
D/U ratio at contour 31.79 dB  
Radial 281.0 degrees  
Bearing to point on contour 293.3 degrees  
D/U ratio at contour 31.81 dB  
Radial 282.0 degrees  
Bearing to point on contour 293.5 degrees  
D/U ratio at contour 31.83 dB  
Radial 283.0 degrees  
Bearing to point on contour 293.7 degrees  
D/U ratio at contour 31.85 dB  
Radial 284.0 degrees  
Bearing to point on contour 293.9 degrees  
D/U ratio at contour 31.86 dB  
Radial 285.0 degrees  
Bearing to point on contour 294.0 degrees  
D/U ratio at contour 31.86 dB

Radial 286.0 degrees  
Bearing to point on contour 294.2 degrees  
D/U ratio at contour 31.85 dB  
Radial 287.0 degrees  
Bearing to point on contour 294.4 degrees  
D/U ratio at contour 31.84 dB  
Radial 288.0 degrees  
Bearing to point on contour 294.6 degrees  
D/U ratio at contour 31.84 dB  
Radial 289.0 degrees  
Bearing to point on contour 294.8 degrees  
D/U ratio at contour 31.85 dB  
Radial 290.0 degrees  
Bearing to point on contour 294.9 degrees  
D/U ratio at contour 31.84 dB  
Radial 291.0 degrees  
Bearing to point on contour 295.1 degrees  
D/U ratio at contour 31.83 dB  
Radial 292.0 degrees  
Bearing to point on contour 295.3 degrees  
D/U ratio at contour 31.82 dB  
Radial 293.0 degrees  
Bearing to point on contour 295.5 degrees  
D/U ratio at contour 31.79 dB  
Radial 294.0 degrees  
Bearing to point on contour 295.6 degrees  
D/U ratio at contour 31.78 dB  
Radial 295.0 degrees  
Bearing to point on contour 295.8 degrees  
D/U ratio at contour 31.76 dB  
Radial 296.0 degrees  
Bearing to point on contour 296.0 degrees  
D/U ratio at contour 31.73 dB  
Radial 297.0 degrees  
Bearing to point on contour 296.2 degrees  
D/U ratio at contour 31.70 dB  
Radial 298.0 degrees  
Bearing to point on contour 296.4 degrees  
D/U ratio at contour 31.68 dB  
Radial 299.0 degrees  
Bearing to point on contour 296.5 degrees  
D/U ratio at contour 31.65 dB  
Radial 300.0 degrees  
Bearing to point on contour 296.7 degrees  
D/U ratio at contour 31.63 dB  
Radial 301.0 degrees  
Bearing to point on contour 296.9 degrees  
D/U ratio at contour 31.59 dB  
Radial 302.0 degrees  
Bearing to point on contour 297.1 degrees  
D/U ratio at contour 31.55 dB  
Radial 303.0 degrees  
Bearing to point on contour 297.2 degrees  
D/U ratio at contour 31.52 dB  
Radial 304.0 degrees  
Bearing to point on contour 297.4 degrees  
D/U ratio at contour 31.47 dB

Radial 305.0 degrees  
Bearing to point on contour 297.6 degrees  
D/U ratio at contour 31.43 dB  
Radial 306.0 degrees  
Bearing to point on contour 297.8 degrees  
D/U ratio at contour 31.38 dB  
Radial 307.0 degrees  
Bearing to point on contour 297.9 degrees  
D/U ratio at contour 31.34 dB  
Radial 308.0 degrees  
Bearing to point on contour 298.1 degrees  
D/U ratio at contour 31.30 dB  
Radial 309.0 degrees  
Bearing to point on contour 298.3 degrees  
D/U ratio at contour 31.26 dB  
Radial 310.0 degrees  
Bearing to point on contour 298.4 degrees  
D/U ratio at contour 31.20 dB  
Radial 311.0 degrees  
Bearing to point on contour 298.6 degrees  
D/U ratio at contour 31.14 dB  
Radial 312.0 degrees  
Bearing to point on contour 298.8 degrees  
D/U ratio at contour 31.10 dB  
Radial 313.0 degrees  
Bearing to point on contour 298.9 degrees  
D/U ratio at contour 31.05 dB  
Radial 314.0 degrees  
Bearing to point on contour 299.1 degrees  
D/U ratio at contour 31.00 dB  
Radial 315.0 degrees  
Bearing to point on contour 299.3 degrees  
D/U ratio at contour 30.93 dB  
Radial 316.0 degrees  
Bearing to point on contour 299.4 degrees  
D/U ratio at contour 30.87 dB  
Radial 317.0 degrees  
Bearing to point on contour 299.6 degrees  
D/U ratio at contour 30.82 dB  
Radial 318.0 degrees  
Bearing to point on contour 299.8 degrees  
D/U ratio at contour 30.76 dB  
Radial 319.0 degrees  
Bearing to point on contour 299.9 degrees  
D/U ratio at contour 30.69 dB  
Radial 320.0 degrees  
Bearing to point on contour 300.1 degrees  
D/U ratio at contour 30.61 dB  
Radial 321.0 degrees  
Bearing to point on contour 300.2 degrees  
D/U ratio at contour 30.53 dB  
Radial 322.0 degrees  
Bearing to point on contour 300.4 degrees  
D/U ratio at contour 30.46 dB  
Radial 323.0 degrees  
Bearing to point on contour 300.6 degrees  
D/U ratio at contour 30.40 dB

Radial 324.0 degrees  
Bearing to point on contour 300.7 degrees  
D/U ratio at contour 30.32 dB  
Radial 325.0 degrees  
Bearing to point on contour 300.9 degrees  
D/U ratio at contour 30.24 dB  
Radial 326.0 degrees  
Bearing to point on contour 301.0 degrees  
D/U ratio at contour 30.15 dB  
Radial 327.0 degrees  
Bearing to point on contour 301.2 degrees  
D/U ratio at contour 30.07 dB  
Radial 328.0 degrees  
Bearing to point on contour 301.3 degrees  
D/U ratio at contour 29.98 dB  
Radial 329.0 degrees  
Bearing to point on contour 301.4 degrees  
D/U ratio at contour 29.89 dB  
Radial 330.0 degrees  
Bearing to point on contour 301.5 degrees  
D/U ratio at contour 29.81 dB  
Radial 331.0 degrees  
Bearing to point on contour 301.7 degrees  
D/U ratio at contour 29.73 dB  
Radial 332.0 degrees  
Bearing to point on contour 301.8 degrees  
D/U ratio at contour 29.65 dB  
Radial 333.0 degrees  
Bearing to point on contour 301.9 degrees  
D/U ratio at contour 29.56 dB  
Radial 334.0 degrees  
Bearing to point on contour 302.1 degrees  
D/U ratio at contour 29.47 dB  
Radial 335.0 degrees  
Bearing to point on contour 302.2 degrees  
D/U ratio at contour 29.39 dB  
Radial 336.0 degrees  
Bearing to point on contour 302.3 degrees  
D/U ratio at contour 29.31 dB  
Radial 337.0 degrees  
Bearing to point on contour 302.4 degrees  
D/U ratio at contour 29.22 dB  
Radial 338.0 degrees  
Bearing to point on contour 302.6 degrees  
D/U ratio at contour 29.13 dB  
Radial 339.0 degrees  
Bearing to point on contour 302.7 degrees  
D/U ratio at contour 29.05 dB  
Radial 340.0 degrees  
Bearing to point on contour 302.8 degrees  
D/U ratio at contour 28.96 dB  
Radial 341.0 degrees  
Bearing to point on contour 302.9 degrees  
D/U ratio at contour 28.88 dB  
Radial 342.0 degrees  
Bearing to point on contour 303.0 degrees  
D/U ratio at contour 28.79 dB

Radial 343.0 degrees  
 Bearing to point on contour 303.1 degrees  
 D/U ratio at contour 28.71 dB  
 Radial 344.0 degrees  
 Bearing to point on contour 303.3 degrees  
 D/U ratio at contour 28.62 dB  
 Radial 345.0 degrees  
 Bearing to point on contour 303.4 degrees  
 D/U ratio at contour 28.53 dB  
 Radial 346.0 degrees  
 Bearing to point on contour 303.5 degrees  
 D/U ratio at contour 28.45 dB  
 Radial 347.0 degrees  
 Bearing to point on contour 303.6 degrees  
 D/U ratio at contour 28.37 dB  
 Radial 348.0 degrees  
 Bearing to point on contour 303.7 degrees  
 D/U ratio at contour 28.27 dB  
 Radial 349.0 degrees  
 Bearing to point on contour 303.8 degrees  
 D/U ratio at contour 28.19 dB  
 Radial 350.0 degrees  
 Bearing to point on contour 303.9 degrees  
 D/U ratio at contour 28.10 dB  
 Radial 351.0 degrees  
 Bearing to point on contour 304.0 degrees  
 D/U ratio at contour 28.01 dB  
 Radial 352.0 degrees  
 Bearing to point on contour 304.1 degrees  
 D/U ratio at contour 27.92 dB  
 Radial 353.0 degrees  
 Bearing to point on contour 304.1 degrees  
 D/U ratio at contour 27.82 dB  
 Radial 354.0 degrees  
 Bearing to point on contour 304.2 degrees  
 D/U ratio at contour 27.72 dB  
 Radial 355.0 degrees  
 Bearing to point on contour 304.2 degrees  
 D/U ratio at contour 27.62 dB  
 Radial 356.0 degrees  
 Bearing to point on contour 304.2 degrees  
 D/U ratio at contour 27.52 dB  
 Radial 357.0 degrees  
 Bearing to point on contour 304.3 degrees  
 D/U ratio at contour 27.43 dB  
 Radial 358.0 degrees  
 Bearing to point on contour 304.3 degrees  
 D/U ratio at contour 27.35 dB  
 Radial 359.0 degrees  
 Bearing to point on contour 304.4 degrees

Contour overlap to Class A station  
 W39CD 39 FULTON MS BLTTA 20090811ABQ  
 D/U ratio at contour 27.32 dB  
 Offset Proposed Offset Class A - Required D/U ratio: 34.0  
 Radial 0.0 degrees  
 Bearing to point on contour 304.8 degrees

D/U ratio at contour 27.24 dB  
Radial 1.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 27.16 dB  
Radial 2.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 27.07 dB  
Radial 3.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 26.98 dB  
Radial 4.0 degrees  
Bearing to point on contour 305.2 degrees  
D/U ratio at contour 26.90 dB  
Radial 5.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 26.80 dB  
Radial 6.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 26.70 dB  
Radial 7.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 26.60 dB  
Radial 8.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 26.51 dB  
Radial 9.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 26.42 dB  
Radial 10.0 degrees  
Bearing to point on contour 305.5 degrees  
D/U ratio at contour 26.32 dB  
Radial 11.0 degrees  
Bearing to point on contour 305.5 degrees  
D/U ratio at contour 26.23 dB  
Radial 12.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 26.13 dB  
Radial 13.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 26.04 dB  
Radial 14.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 25.95 dB  
Radial 15.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 25.86 dB  
Radial 16.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 25.77 dB  
Radial 17.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 25.68 dB  
Radial 18.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 25.59 dB  
Radial 19.0 degrees  
Bearing to point on contour 305.4 degrees

D/U ratio at contour 25.50 dB  
Radial 20.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 25.42 dB  
Radial 21.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 25.33 dB  
Radial 22.0 degrees  
Bearing to point on contour 305.5 degrees  
D/U ratio at contour 25.24 dB  
Radial 23.0 degrees  
Bearing to point on contour 305.5 degrees  
D/U ratio at contour 25.15 dB  
Radial 24.0 degrees  
Bearing to point on contour 305.5 degrees  
D/U ratio at contour 25.08 dB  
Radial 25.0 degrees  
Bearing to point on contour 305.4 degrees  
D/U ratio at contour 24.99 dB  
Radial 26.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 24.91 dB  
Radial 27.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 24.82 dB  
Radial 28.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 24.74 dB  
Radial 29.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 24.65 dB  
Radial 30.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 24.57 dB  
Radial 31.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 24.49 dB  
Radial 32.0 degrees  
Bearing to point on contour 305.3 degrees  
D/U ratio at contour 24.41 dB  
Radial 33.0 degrees  
Bearing to point on contour 305.2 degrees  
D/U ratio at contour 24.33 dB  
Radial 34.0 degrees  
Bearing to point on contour 305.2 degrees  
D/U ratio at contour 24.25 dB  
Radial 35.0 degrees  
Bearing to point on contour 305.2 degrees  
D/U ratio at contour 24.16 dB  
Radial 36.0 degrees  
Bearing to point on contour 305.2 degrees  
D/U ratio at contour 24.08 dB  
Radial 37.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 24.00 dB  
Radial 38.0 degrees  
Bearing to point on contour 305.1 degrees

D/U ratio at contour 23.92 dB  
Radial 39.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 23.83 dB  
Radial 40.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 23.75 dB  
Radial 41.0 degrees  
Bearing to point on contour 305.1 degrees  
D/U ratio at contour 23.67 dB  
Radial 42.0 degrees  
Bearing to point on contour 305.0 degrees  
D/U ratio at contour 23.60 dB  
Radial 43.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 23.53 dB  
Radial 44.0 degrees  
Bearing to point on contour 304.9 degrees  
D/U ratio at contour 23.46 dB  
Radial 45.0 degrees  
Bearing to point on contour 304.8 degrees  
D/U ratio at contour 23.38 dB  
Radial 46.0 degrees  
Bearing to point on contour 304.7 degrees  
D/U ratio at contour 23.30 dB  
Radial 47.0 degrees  
Bearing to point on contour 304.7 degrees  
D/U ratio at contour 23.23 dB  
Radial 48.0 degrees  
Bearing to point on contour 304.6 degrees  
D/U ratio at contour 23.17 dB  
Radial 49.0 degrees  
Bearing to point on contour 304.5 degrees  
D/U ratio at contour 23.09 dB  
Radial 50.0 degrees  
Bearing to point on contour 304.5 degrees  
D/U ratio at contour 23.01 dB  
Radial 51.0 degrees  
Bearing to point on contour 304.4 degrees  
D/U ratio at contour 22.92 dB  
Radial 52.0 degrees  
Bearing to point on contour 304.4 degrees  
D/U ratio at contour 22.83 dB  
Radial 53.0 degrees  
Bearing to point on contour 304.4 degrees  
D/U ratio at contour 22.74 dB  
Radial 54.0 degrees  
Bearing to point on contour 304.4 degrees  
D/U ratio at contour 22.66 dB  
Radial 55.0 degrees  
Bearing to point on contour 304.3 degrees  
D/U ratio at contour 22.60 dB  
Radial 56.0 degrees  
Bearing to point on contour 304.3 degrees  
D/U ratio at contour 22.54 dB  
Radial 57.0 degrees  
Bearing to point on contour 304.1 degrees

D/U ratio at contour 22.49 dB  
Radial 58.0 degrees  
Bearing to point on contour 304.0 degrees  
D/U ratio at contour 22.43 dB  
Radial 59.0 degrees  
Bearing to point on contour 303.9 degrees  
D/U ratio at contour 22.35 dB  
Radial 60.0 degrees  
Bearing to point on contour 303.8 degrees  
D/U ratio at contour 22.29 dB  
Radial 61.0 degrees  
Bearing to point on contour 303.8 degrees  
D/U ratio at contour 22.21 dB  
Radial 62.0 degrees  
Bearing to point on contour 303.7 degrees  
D/U ratio at contour 22.14 dB  
Radial 63.0 degrees  
Bearing to point on contour 303.6 degrees  
D/U ratio at contour 22.10 dB  
Radial 64.0 degrees  
Bearing to point on contour 303.5 degrees  
D/U ratio at contour 22.03 dB  
Radial 65.0 degrees  
Bearing to point on contour 303.4 degrees  
D/U ratio at contour 21.96 dB  
Radial 66.0 degrees  
Bearing to point on contour 303.3 degrees  
D/U ratio at contour 21.90 dB  
Radial 67.0 degrees  
Bearing to point on contour 303.3 degrees  
D/U ratio at contour 21.82 dB  
Radial 68.0 degrees  
Bearing to point on contour 303.2 degrees  
D/U ratio at contour 21.74 dB  
Radial 69.0 degrees  
Bearing to point on contour 303.1 degrees  
D/U ratio at contour 21.71 dB  
Radial 70.0 degrees  
Bearing to point on contour 303.0 degrees  
D/U ratio at contour 21.69 dB  
Radial 71.0 degrees  
Bearing to point on contour 302.8 degrees  
D/U ratio at contour 21.66 dB  
Radial 72.0 degrees  
Bearing to point on contour 302.7 degrees  
D/U ratio at contour 21.59 dB  
Radial 73.0 degrees  
Bearing to point on contour 302.6 degrees  
D/U ratio at contour 21.52 dB  
Radial 74.0 degrees  
Bearing to point on contour 302.5 degrees  
D/U ratio at contour 21.44 dB  
Radial 75.0 degrees  
Bearing to point on contour 302.4 degrees  
D/U ratio at contour 21.36 dB  
Radial 76.0 degrees  
Bearing to point on contour 302.3 degrees

D/U ratio at contour 21.30 dB  
Radial 77.0 degrees  
Bearing to point on contour 302.2 degrees  
D/U ratio at contour 21.23 dB  
Radial 78.0 degrees  
Bearing to point on contour 302.1 degrees  
D/U ratio at contour 21.22 dB  
Radial 79.0 degrees  
Bearing to point on contour 302.0 degrees  
D/U ratio at contour 21.21 dB  
Radial 80.0 degrees  
Bearing to point on contour 301.8 degrees  
D/U ratio at contour 21.19 dB  
Radial 81.0 degrees  
Bearing to point on contour 301.6 degrees  
D/U ratio at contour 21.16 dB  
Radial 82.0 degrees  
Bearing to point on contour 301.5 degrees  
D/U ratio at contour 21.13 dB  
Radial 83.0 degrees  
Bearing to point on contour 301.3 degrees  
D/U ratio at contour 21.08 dB  
Radial 84.0 degrees  
Bearing to point on contour 301.2 degrees  
D/U ratio at contour 21.01 dB  
Radial 85.0 degrees  
Bearing to point on contour 301.1 degrees  
D/U ratio at contour 20.93 dB  
Radial 86.0 degrees  
Bearing to point on contour 301.0 degrees  
D/U ratio at contour 20.90 dB  
Radial 87.0 degrees  
Bearing to point on contour 300.9 degrees  
D/U ratio at contour 20.82 dB  
Radial 88.0 degrees  
Bearing to point on contour 300.8 degrees  
D/U ratio at contour 20.79 dB  
Radial 89.0 degrees  
Bearing to point on contour 300.6 degrees  
D/U ratio at contour 20.80 dB  
Radial 90.0 degrees  
Bearing to point on contour 300.4 degrees  
D/U ratio at contour 20.81 dB  
Radial 91.0 degrees  
Bearing to point on contour 300.2 degrees  
D/U ratio at contour 20.81 dB  
Radial 92.0 degrees  
Bearing to point on contour 300.1 degrees  
D/U ratio at contour 20.80 dB  
Radial 93.0 degrees  
Bearing to point on contour 299.9 degrees  
D/U ratio at contour 20.76 dB  
Radial 94.0 degrees  
Bearing to point on contour 299.8 degrees  
D/U ratio at contour 20.73 dB  
Radial 95.0 degrees  
Bearing to point on contour 299.6 degrees

D/U ratio at contour 20.70 dB  
Radial 96.0 degrees  
Bearing to point on contour 299.4 degrees  
D/U ratio at contour 20.70 dB  
Radial 97.0 degrees  
Bearing to point on contour 299.3 degrees  
D/U ratio at contour 20.69 dB  
Radial 98.0 degrees  
Bearing to point on contour 299.1 degrees  
D/U ratio at contour 20.68 dB  
Radial 99.0 degrees  
Bearing to point on contour 298.9 degrees  
D/U ratio at contour 20.68 dB  
Radial 100.0 degrees  
Bearing to point on contour 298.7 degrees  
D/U ratio at contour 20.68 dB  
Radial 101.0 degrees  
Bearing to point on contour 298.5 degrees  
D/U ratio at contour 20.68 dB  
Radial 102.0 degrees  
Bearing to point on contour 298.3 degrees  
D/U ratio at contour 20.66 dB  
Radial 103.0 degrees  
Bearing to point on contour 298.2 degrees  
D/U ratio at contour 20.63 dB  
Radial 104.0 degrees  
Bearing to point on contour 298.0 degrees  
D/U ratio at contour 20.64 dB  
Radial 105.0 degrees  
Bearing to point on contour 297.8 degrees  
D/U ratio at contour 20.65 dB  
Radial 106.0 degrees  
Bearing to point on contour 297.6 degrees  
D/U ratio at contour 20.63 dB  
Radial 107.0 degrees  
Bearing to point on contour 297.4 degrees  
D/U ratio at contour 20.64 dB  
Radial 108.0 degrees  
Bearing to point on contour 297.2 degrees  
D/U ratio at contour 20.66 dB  
Radial 109.0 degrees  
Bearing to point on contour 297.0 degrees  
D/U ratio at contour 20.67 dB  
Radial 110.0 degrees  
Bearing to point on contour 296.8 degrees  
D/U ratio at contour 20.69 dB  
Radial 111.0 degrees  
Bearing to point on contour 296.6 degrees  
D/U ratio at contour 20.72 dB  
Radial 112.0 degrees  
Bearing to point on contour 296.4 degrees  
D/U ratio at contour 20.78 dB  
Radial 113.0 degrees  
Bearing to point on contour 296.2 degrees  
D/U ratio at contour 20.84 dB  
Radial 114.0 degrees  
Bearing to point on contour 296.0 degrees

D/U ratio at contour 20.87 dB  
Radial 115.0 degrees  
Bearing to point on contour 295.8 degrees  
D/U ratio at contour 20.87 dB  
Radial 116.0 degrees  
Bearing to point on contour 295.6 degrees  
D/U ratio at contour 20.88 dB  
Radial 117.0 degrees  
Bearing to point on contour 295.4 degrees  
D/U ratio at contour 20.92 dB  
Radial 118.0 degrees  
Bearing to point on contour 295.2 degrees  
D/U ratio at contour 20.97 dB  
Radial 119.0 degrees  
Bearing to point on contour 295.0 degrees  
D/U ratio at contour 21.02 dB  
Radial 120.0 degrees  
Bearing to point on contour 294.8 degrees  
D/U ratio at contour 21.06 dB  
Radial 121.0 degrees  
Bearing to point on contour 294.7 degrees  
D/U ratio at contour 21.07 dB  
Radial 122.0 degrees  
Bearing to point on contour 294.5 degrees  
D/U ratio at contour 21.08 dB  
Radial 123.0 degrees  
Bearing to point on contour 294.3 degrees  
D/U ratio at contour 21.12 dB  
Radial 124.0 degrees  
Bearing to point on contour 294.1 degrees  
D/U ratio at contour 21.16 dB  
Radial 125.0 degrees  
Bearing to point on contour 293.9 degrees  
D/U ratio at contour 21.17 dB  
Radial 126.0 degrees  
Bearing to point on contour 293.7 degrees  
D/U ratio at contour 21.18 dB  
Radial 127.0 degrees  
Bearing to point on contour 293.5 degrees  
D/U ratio at contour 21.18 dB  
Radial 128.0 degrees  
Bearing to point on contour 293.3 degrees  
D/U ratio at contour 21.16 dB  
Radial 129.0 degrees  
Bearing to point on contour 293.1 degrees  
D/U ratio at contour 21.18 dB  
Radial 130.0 degrees  
Bearing to point on contour 292.9 degrees  
D/U ratio at contour 21.19 dB  
Radial 131.0 degrees  
Bearing to point on contour 292.7 degrees  
D/U ratio at contour 21.21 dB  
Radial 132.0 degrees  
Bearing to point on contour 292.5 degrees  
D/U ratio at contour 21.25 dB  
Radial 133.0 degrees  
Bearing to point on contour 292.3 degrees

D/U ratio at contour 21.30 dB  
Radial 134.0 degrees  
Bearing to point on contour 292.1 degrees  
D/U ratio at contour 21.33 dB  
Radial 135.0 degrees  
Bearing to point on contour 291.9 degrees  
D/U ratio at contour 21.39 dB  
Radial 136.0 degrees  
Bearing to point on contour 291.8 degrees  
D/U ratio at contour 21.44 dB  
Radial 137.0 degrees  
Bearing to point on contour 291.6 degrees  
D/U ratio at contour 21.46 dB  
Radial 138.0 degrees  
Bearing to point on contour 291.4 degrees  
D/U ratio at contour 21.50 dB  
Radial 139.0 degrees  
Bearing to point on contour 291.2 degrees  
D/U ratio at contour 21.57 dB  
Radial 140.0 degrees  
Bearing to point on contour 291.1 degrees  
D/U ratio at contour 21.62 dB  
Radial 141.0 degrees  
Bearing to point on contour 290.9 degrees  
D/U ratio at contour 21.66 dB  
Radial 142.0 degrees  
Bearing to point on contour 290.7 degrees  
D/U ratio at contour 21.70 dB  
Radial 143.0 degrees  
Bearing to point on contour 290.5 degrees  
D/U ratio at contour 21.75 dB  
Radial 144.0 degrees  
Bearing to point on contour 290.3 degrees  
D/U ratio at contour 21.81 dB  
Radial 145.0 degrees  
Bearing to point on contour 290.2 degrees  
D/U ratio at contour 21.89 dB  
Radial 146.0 degrees  
Bearing to point on contour 290.1 degrees  
D/U ratio at contour 21.95 dB  
Radial 147.0 degrees  
Bearing to point on contour 289.9 degrees  
D/U ratio at contour 21.98 dB  
Radial 148.0 degrees  
Bearing to point on contour 289.8 degrees  
D/U ratio at contour 21.99 dB  
Radial 149.0 degrees  
Bearing to point on contour 289.6 degrees  
D/U ratio at contour 21.99 dB  
Radial 150.0 degrees  
Bearing to point on contour 289.4 degrees  
D/U ratio at contour 22.03 dB  
Radial 151.0 degrees  
Bearing to point on contour 289.2 degrees  
D/U ratio at contour 22.05 dB  
Radial 152.0 degrees  
Bearing to point on contour 289.0 degrees

D/U ratio at contour 22.09 dB  
Radial 153.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 22.15 dB  
Radial 154.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 22.20 dB  
Radial 155.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 22.23 dB  
Radial 156.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 22.29 dB  
Radial 157.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 22.35 dB  
Radial 158.0 degrees  
Bearing to point on contour 288.1 degrees  
D/U ratio at contour 22.41 dB  
Radial 159.0 degrees  
Bearing to point on contour 288.0 degrees  
D/U ratio at contour 22.50 dB  
Radial 160.0 degrees  
Bearing to point on contour 287.9 degrees  
D/U ratio at contour 22.59 dB  
Radial 161.0 degrees  
Bearing to point on contour 287.8 degrees  
D/U ratio at contour 22.68 dB  
Radial 162.0 degrees  
Bearing to point on contour 287.7 degrees  
D/U ratio at contour 22.76 dB  
Radial 163.0 degrees  
Bearing to point on contour 287.6 degrees  
D/U ratio at contour 22.84 dB  
Radial 164.0 degrees  
Bearing to point on contour 287.6 degrees  
D/U ratio at contour 22.94 dB  
Radial 165.0 degrees  
Bearing to point on contour 287.5 degrees  
D/U ratio at contour 23.00 dB  
Radial 166.0 degrees  
Bearing to point on contour 287.4 degrees  
D/U ratio at contour 23.05 dB  
Radial 167.0 degrees  
Bearing to point on contour 287.2 degrees  
D/U ratio at contour 23.09 dB  
Radial 168.0 degrees  
Bearing to point on contour 287.0 degrees  
D/U ratio at contour 23.17 dB  
Radial 169.0 degrees  
Bearing to point on contour 286.9 degrees  
D/U ratio at contour 23.27 dB  
Radial 170.0 degrees  
Bearing to point on contour 286.9 degrees  
D/U ratio at contour 23.35 dB  
Radial 171.0 degrees  
Bearing to point on contour 286.8 degrees

D/U ratio at contour 23.42 dB  
Radial 172.0 degrees  
Bearing to point on contour 286.7 degrees  
D/U ratio at contour 23.49 dB  
Radial 173.0 degrees  
Bearing to point on contour 286.5 degrees  
D/U ratio at contour 23.55 dB  
Radial 174.0 degrees  
Bearing to point on contour 286.4 degrees  
D/U ratio at contour 23.62 dB  
Radial 175.0 degrees  
Bearing to point on contour 286.2 degrees  
D/U ratio at contour 23.71 dB  
Radial 176.0 degrees  
Bearing to point on contour 286.1 degrees  
D/U ratio at contour 23.79 dB  
Radial 177.0 degrees  
Bearing to point on contour 286.1 degrees  
D/U ratio at contour 23.87 dB  
Radial 178.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 23.96 dB  
Radial 179.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 24.05 dB  
Radial 180.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 24.13 dB  
Radial 181.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 24.22 dB  
Radial 182.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 24.32 dB  
Radial 183.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 24.41 dB  
Radial 184.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 24.50 dB  
Radial 185.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 24.60 dB  
Radial 186.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 24.69 dB  
Radial 187.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 24.79 dB  
Radial 188.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 24.89 dB  
Radial 189.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 24.99 dB  
Radial 190.0 degrees  
Bearing to point on contour 285.7 degrees

D/U ratio at contour 25.09 dB  
Radial 191.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 25.18 dB  
Radial 192.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 25.27 dB  
Radial 193.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 25.36 dB  
Radial 194.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 25.45 dB  
Radial 195.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 25.54 dB  
Radial 196.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 25.63 dB  
Radial 197.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 25.72 dB  
Radial 198.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 25.81 dB  
Radial 199.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 25.90 dB  
Radial 200.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 25.98 dB  
Radial 201.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 26.07 dB  
Radial 202.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 26.16 dB  
Radial 203.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 26.25 dB  
Radial 204.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 26.34 dB  
Radial 205.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 26.43 dB  
Radial 206.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 26.52 dB  
Radial 207.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 26.61 dB  
Radial 208.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 26.70 dB  
Radial 209.0 degrees  
Bearing to point on contour 285.6 degrees

D/U ratio at contour 26.79 dB  
Radial 210.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 26.89 dB  
Radial 211.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 26.98 dB  
Radial 212.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 27.08 dB  
Radial 213.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 27.17 dB  
Radial 214.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 27.27 dB  
Radial 215.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 27.37 dB  
Radial 216.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 27.47 dB  
Radial 217.0 degrees  
Bearing to point on contour 285.6 degrees  
D/U ratio at contour 27.56 dB  
Radial 218.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 27.65 dB  
Radial 219.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 27.75 dB  
Radial 220.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 27.84 dB  
Radial 221.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 27.92 dB  
Radial 222.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 28.01 dB  
Radial 223.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 28.10 dB  
Radial 224.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 28.19 dB  
Radial 225.0 degrees  
Bearing to point on contour 286.1 degrees  
D/U ratio at contour 28.27 dB  
Radial 226.0 degrees  
Bearing to point on contour 286.2 degrees  
D/U ratio at contour 28.37 dB  
Radial 227.0 degrees  
Bearing to point on contour 286.3 degrees  
D/U ratio at contour 28.45 dB  
Radial 228.0 degrees  
Bearing to point on contour 286.3 degrees

D/U ratio at contour 28.53 dB  
Radial 229.0 degrees  
Bearing to point on contour 286.4 degrees  
D/U ratio at contour 28.61 dB  
Radial 230.0 degrees  
Bearing to point on contour 286.6 degrees  
D/U ratio at contour 28.70 dB  
Radial 231.0 degrees  
Bearing to point on contour 286.6 degrees  
D/U ratio at contour 28.79 dB  
Radial 232.0 degrees  
Bearing to point on contour 286.7 degrees  
D/U ratio at contour 28.86 dB  
Radial 233.0 degrees  
Bearing to point on contour 286.8 degrees  
D/U ratio at contour 28.93 dB  
Radial 234.0 degrees  
Bearing to point on contour 287.0 degrees  
D/U ratio at contour 29.00 dB  
Radial 235.0 degrees  
Bearing to point on contour 287.1 degrees  
D/U ratio at contour 29.08 dB  
Radial 236.0 degrees  
Bearing to point on contour 287.2 degrees  
D/U ratio at contour 29.14 dB  
Radial 237.0 degrees  
Bearing to point on contour 287.3 degrees  
D/U ratio at contour 29.21 dB  
Radial 238.0 degrees  
Bearing to point on contour 287.5 degrees  
D/U ratio at contour 29.28 dB  
Radial 239.0 degrees  
Bearing to point on contour 287.6 degrees  
D/U ratio at contour 29.35 dB  
Radial 240.0 degrees  
Bearing to point on contour 287.7 degrees  
D/U ratio at contour 29.41 dB  
Radial 241.0 degrees  
Bearing to point on contour 287.9 degrees  
D/U ratio at contour 29.48 dB  
Radial 242.0 degrees  
Bearing to point on contour 288.0 degrees  
D/U ratio at contour 29.56 dB  
Radial 243.0 degrees  
Bearing to point on contour 288.1 degrees  
D/U ratio at contour 29.64 dB  
Radial 244.0 degrees  
Bearing to point on contour 288.2 degrees  
D/U ratio at contour 29.72 dB  
Radial 245.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 29.80 dB  
Radial 246.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 29.88 dB  
Radial 247.0 degrees  
Bearing to point on contour 288.5 degrees

D/U ratio at contour 29.97 dB  
Radial 248.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 30.07 dB  
Radial 249.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 30.16 dB  
Radial 250.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 30.26 dB  
Radial 251.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 30.35 dB  
Radial 252.0 degrees  
Bearing to point on contour 289.0 degrees  
D/U ratio at contour 30.43 dB  
Radial 253.0 degrees  
Bearing to point on contour 289.1 degrees  
D/U ratio at contour 30.51 dB  
Radial 254.0 degrees  
Bearing to point on contour 289.2 degrees  
D/U ratio at contour 30.59 dB  
Radial 255.0 degrees  
Bearing to point on contour 289.3 degrees  
D/U ratio at contour 30.67 dB  
Radial 256.0 degrees  
Bearing to point on contour 289.5 degrees  
D/U ratio at contour 30.74 dB  
Radial 257.0 degrees  
Bearing to point on contour 289.6 degrees  
D/U ratio at contour 30.82 dB  
Radial 258.0 degrees  
Bearing to point on contour 289.7 degrees  
D/U ratio at contour 30.91 dB  
Radial 259.0 degrees  
Bearing to point on contour 289.9 degrees  
D/U ratio at contour 30.99 dB  
Radial 260.0 degrees  
Bearing to point on contour 290.0 degrees  
D/U ratio at contour 31.06 dB  
Radial 261.0 degrees  
Bearing to point on contour 290.1 degrees  
D/U ratio at contour 31.12 dB  
Radial 262.0 degrees  
Bearing to point on contour 290.2 degrees  
D/U ratio at contour 31.18 dB  
Radial 263.0 degrees  
Bearing to point on contour 290.4 degrees  
D/U ratio at contour 31.25 dB  
Radial 264.0 degrees  
Bearing to point on contour 290.5 degrees  
D/U ratio at contour 31.31 dB  
Radial 265.0 degrees  
Bearing to point on contour 290.7 degrees  
D/U ratio at contour 31.37 dB  
Radial 266.0 degrees  
Bearing to point on contour 290.8 degrees

D/U ratio at contour 31.43 dB  
Radial 267.0 degrees  
Bearing to point on contour 291.0 degrees  
D/U ratio at contour 31.49 dB  
Radial 268.0 degrees  
Bearing to point on contour 291.1 degrees  
D/U ratio at contour 31.54 dB  
Radial 269.0 degrees  
Bearing to point on contour 291.2 degrees  
D/U ratio at contour 31.59 dB  
Radial 270.0 degrees  
Bearing to point on contour 291.4 degrees  
D/U ratio at contour 31.65 dB  
Radial 271.0 degrees  
Bearing to point on contour 291.6 degrees  
D/U ratio at contour 31.69 dB  
Radial 272.0 degrees  
Bearing to point on contour 291.7 degrees  
D/U ratio at contour 31.72 dB  
Radial 273.0 degrees  
Bearing to point on contour 291.9 degrees  
D/U ratio at contour 31.76 dB  
Radial 274.0 degrees  
Bearing to point on contour 292.1 degrees  
D/U ratio at contour 31.80 dB  
Radial 275.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 31.84 dB  
Radial 276.0 degrees  
Bearing to point on contour 292.4 degrees  
D/U ratio at contour 31.88 dB  
Radial 277.0 degrees  
Bearing to point on contour 292.6 degrees  
D/U ratio at contour 31.92 dB  
Radial 278.0 degrees  
Bearing to point on contour 292.7 degrees  
D/U ratio at contour 31.96 dB  
Radial 279.0 degrees  
Bearing to point on contour 292.9 degrees  
D/U ratio at contour 31.99 dB  
Radial 280.0 degrees  
Bearing to point on contour 293.1 degrees  
D/U ratio at contour 32.02 dB  
Radial 281.0 degrees  
Bearing to point on contour 293.3 degrees  
D/U ratio at contour 32.04 dB  
Radial 282.0 degrees  
Bearing to point on contour 293.4 degrees  
D/U ratio at contour 32.06 dB  
Radial 283.0 degrees  
Bearing to point on contour 293.6 degrees  
D/U ratio at contour 32.07 dB  
Radial 284.0 degrees  
Bearing to point on contour 293.8 degrees  
D/U ratio at contour 32.08 dB  
Radial 285.0 degrees  
Bearing to point on contour 294.0 degrees

D/U ratio at contour 32.08 dB  
Radial 286.0 degrees  
Bearing to point on contour 294.2 degrees  
D/U ratio at contour 32.07 dB  
Radial 287.0 degrees  
Bearing to point on contour 294.3 degrees  
D/U ratio at contour 32.07 dB  
Radial 288.0 degrees  
Bearing to point on contour 294.5 degrees  
D/U ratio at contour 32.06 dB  
Radial 289.0 degrees  
Bearing to point on contour 294.7 degrees  
D/U ratio at contour 32.06 dB  
Radial 290.0 degrees  
Bearing to point on contour 294.9 degrees  
D/U ratio at contour 32.06 dB  
Radial 291.0 degrees  
Bearing to point on contour 295.1 degrees  
D/U ratio at contour 32.05 dB  
Radial 292.0 degrees  
Bearing to point on contour 295.3 degrees  
D/U ratio at contour 32.04 dB  
Radial 293.0 degrees  
Bearing to point on contour 295.5 degrees  
D/U ratio at contour 32.02 dB  
Radial 294.0 degrees  
Bearing to point on contour 295.6 degrees  
D/U ratio at contour 32.00 dB  
Radial 295.0 degrees  
Bearing to point on contour 295.8 degrees  
D/U ratio at contour 31.99 dB  
Radial 296.0 degrees  
Bearing to point on contour 296.0 degrees  
D/U ratio at contour 31.96 dB  
Radial 297.0 degrees  
Bearing to point on contour 296.2 degrees  
D/U ratio at contour 31.93 dB  
Radial 298.0 degrees  
Bearing to point on contour 296.4 degrees  
D/U ratio at contour 31.91 dB  
Radial 299.0 degrees  
Bearing to point on contour 296.6 degrees  
D/U ratio at contour 31.89 dB  
Radial 300.0 degrees  
Bearing to point on contour 296.7 degrees  
D/U ratio at contour 31.86 dB  
Radial 301.0 degrees  
Bearing to point on contour 296.9 degrees  
D/U ratio at contour 31.82 dB  
Radial 302.0 degrees  
Bearing to point on contour 297.1 degrees  
D/U ratio at contour 31.78 dB  
Radial 303.0 degrees  
Bearing to point on contour 297.3 degrees  
D/U ratio at contour 31.74 dB  
Radial 304.0 degrees  
Bearing to point on contour 297.5 degrees

D/U ratio at contour 31.69 dB  
Radial 305.0 degrees  
Bearing to point on contour 297.6 degrees  
D/U ratio at contour 31.65 dB  
Radial 306.0 degrees  
Bearing to point on contour 297.8 degrees  
D/U ratio at contour 31.60 dB  
Radial 307.0 degrees  
Bearing to point on contour 298.0 degrees  
D/U ratio at contour 31.56 dB  
Radial 308.0 degrees  
Bearing to point on contour 298.2 degrees  
D/U ratio at contour 31.51 dB  
Radial 309.0 degrees  
Bearing to point on contour 298.4 degrees  
D/U ratio at contour 31.46 dB  
Radial 310.0 degrees  
Bearing to point on contour 298.5 degrees  
D/U ratio at contour 31.40 dB  
Radial 311.0 degrees  
Bearing to point on contour 298.7 degrees  
D/U ratio at contour 31.35 dB  
Radial 312.0 degrees  
Bearing to point on contour 298.9 degrees  
D/U ratio at contour 31.30 dB  
Radial 313.0 degrees  
Bearing to point on contour 299.0 degrees  
D/U ratio at contour 31.26 dB  
Radial 314.0 degrees  
Bearing to point on contour 299.2 degrees  
D/U ratio at contour 31.20 dB  
Radial 315.0 degrees  
Bearing to point on contour 299.4 degrees  
D/U ratio at contour 31.14 dB  
Radial 316.0 degrees  
Bearing to point on contour 299.6 degrees  
D/U ratio at contour 31.08 dB  
Radial 317.0 degrees  
Bearing to point on contour 299.7 degrees  
D/U ratio at contour 31.03 dB  
Radial 318.0 degrees  
Bearing to point on contour 299.9 degrees  
D/U ratio at contour 30.97 dB  
Radial 319.0 degrees  
Bearing to point on contour 300.1 degrees  
D/U ratio at contour 30.88 dB  
Radial 320.0 degrees  
Bearing to point on contour 300.2 degrees  
D/U ratio at contour 30.80 dB  
Radial 321.0 degrees  
Bearing to point on contour 300.4 degrees  
D/U ratio at contour 30.72 dB  
Radial 322.0 degrees  
Bearing to point on contour 300.6 degrees  
D/U ratio at contour 30.65 dB  
Radial 323.0 degrees  
Bearing to point on contour 300.7 degrees

D/U ratio at contour 30.58 dB  
Radial 324.0 degrees  
Bearing to point on contour 300.9 degrees  
D/U ratio at contour 30.49 dB  
Radial 325.0 degrees  
Bearing to point on contour 301.0 degrees  
D/U ratio at contour 30.41 dB  
Radial 326.0 degrees  
Bearing to point on contour 301.2 degrees  
D/U ratio at contour 30.33 dB  
Radial 327.0 degrees  
Bearing to point on contour 301.3 degrees  
D/U ratio at contour 30.23 dB  
Radial 328.0 degrees  
Bearing to point on contour 301.5 degrees  
D/U ratio at contour 30.14 dB  
Radial 329.0 degrees  
Bearing to point on contour 301.6 degrees  
D/U ratio at contour 30.05 dB  
Radial 330.0 degrees  
Bearing to point on contour 301.8 degrees  
D/U ratio at contour 29.97 dB  
Radial 331.0 degrees  
Bearing to point on contour 301.9 degrees  
D/U ratio at contour 29.88 dB  
Radial 332.0 degrees  
Bearing to point on contour 302.0 degrees  
D/U ratio at contour 29.79 dB  
Radial 333.0 degrees  
Bearing to point on contour 302.2 degrees  
D/U ratio at contour 29.70 dB  
Radial 334.0 degrees  
Bearing to point on contour 302.3 degrees  
D/U ratio at contour 29.61 dB  
Radial 335.0 degrees  
Bearing to point on contour 302.4 degrees  
D/U ratio at contour 29.53 dB  
Radial 336.0 degrees  
Bearing to point on contour 302.6 degrees  
D/U ratio at contour 29.44 dB  
Radial 337.0 degrees  
Bearing to point on contour 302.7 degrees  
D/U ratio at contour 29.36 dB  
Radial 338.0 degrees  
Bearing to point on contour 302.8 degrees  
D/U ratio at contour 29.27 dB  
Radial 339.0 degrees  
Bearing to point on contour 302.9 degrees  
D/U ratio at contour 29.17 dB  
Radial 340.0 degrees  
Bearing to point on contour 303.1 degrees  
D/U ratio at contour 29.09 dB  
Radial 341.0 degrees  
Bearing to point on contour 303.2 degrees  
D/U ratio at contour 29.00 dB  
Radial 342.0 degrees  
Bearing to point on contour 303.3 degrees

D/U ratio at contour 28.91 dB  
 Radial 343.0 degrees  
 Bearing to point on contour 303.4 degrees  
 D/U ratio at contour 28.82 dB  
 Radial 344.0 degrees  
 Bearing to point on contour 303.5 degrees  
 D/U ratio at contour 28.73 dB  
 Radial 345.0 degrees  
 Bearing to point on contour 303.6 degrees  
 D/U ratio at contour 28.64 dB  
 Radial 346.0 degrees  
 Bearing to point on contour 303.8 degrees  
 D/U ratio at contour 28.56 dB  
 Radial 347.0 degrees  
 Bearing to point on contour 303.9 degrees  
 D/U ratio at contour 28.47 dB  
 Radial 348.0 degrees  
 Bearing to point on contour 304.0 degrees  
 D/U ratio at contour 28.38 dB  
 Radial 349.0 degrees  
 Bearing to point on contour 304.1 degrees  
 D/U ratio at contour 28.29 dB  
 Radial 350.0 degrees  
 Bearing to point on contour 304.2 degrees  
 D/U ratio at contour 28.19 dB  
 Radial 351.0 degrees  
 Bearing to point on contour 304.3 degrees  
 D/U ratio at contour 28.10 dB  
 Radial 352.0 degrees  
 Bearing to point on contour 304.4 degrees  
 D/U ratio at contour 28.00 dB  
 Radial 353.0 degrees  
 Bearing to point on contour 304.5 degrees  
 D/U ratio at contour 27.90 dB  
 Radial 354.0 degrees  
 Bearing to point on contour 304.5 degrees  
 D/U ratio at contour 27.80 dB  
 Radial 355.0 degrees  
 Bearing to point on contour 304.5 degrees  
 D/U ratio at contour 27.69 dB  
 Radial 356.0 degrees  
 Bearing to point on contour 304.5 degrees  
 D/U ratio at contour 27.59 dB  
 Radial 357.0 degrees  
 Bearing to point on contour 304.6 degrees  
 D/U ratio at contour 27.49 dB  
 Radial 358.0 degrees  
 Bearing to point on contour 304.7 degrees  
 D/U ratio at contour 27.41 dB  
 Radial 359.0 degrees  
 Bearing to point on contour 304.7 degrees

Station inside contour of Class A station  
 W49AY 47 BIRMINGHAM AL BSTA 20110526ABI

Station inside contour of Class A station  
 W49AY 47 BIRMINGHAM AL BDISTTA 20080804AEH

Station inside contour of Class A station  
W49AY 47 BIRMINGHAM AL BSTA 20110525AAW

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WBIQ-DT 39 BIRMINGHAM AL USERRECORD01 Site # 01

and station

SHORT TO: WBIQ 39 BIRMINGHAM AL DTVPLN DTVP1384  
33 -29-04 86 -48-25  
Req. separation 223.7 Actual separation 0.0 Short 223.7 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 01

Checks to Site Number 01

- Proposed facility OK to FCC Monitoring Stations
- Proposed facility OK toward West Virginia quiet zone
- Proposed facility OK toward Table Mountain
- Proposed facility is beyond the Canadian coordination distance
- Proposed facility is beyond the Mexican coordination distance
- Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
39	WBIQ-DT	BIRMINGHAM AL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WJXS-CA	SYLACAUGA AL	87.9	LIC	BLTTL	19970508JF
25	WJMY-CA	DEMOPOLIS AL	101.0	APP	BSTA	20110908AAX



Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WJMY-CA	DEMOPOLIS AL	BSTA -20110908AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WDBB	BESSEMER AL	69.9	LIC	BLCDT -20060421ABG
21	WVTM-DR	BIRMINGHAM AL	102.1	APP	BPRM -20110513AER
24	WMDN	MERIDIAN MS	117.9	LIC	BLCDT -20090304ADW
25	WKNI-LP	ANDALUSIA AL	198.0	CP	BPTTL -20061226AAF
25	WFNA	GULF SHORES AL	244.0	LIC	BLCDT -20100614AQJ
25	WATL	ATLANTA GA	321.2	LIC	BLCDT -20020716AAH
25	W25AD	COLUMBUS MS	104.5	CP	BDFCDTL -20110623ADS
25	W25AD	COLUMBUS MS	104.5	LIC	BLTT -20031126AOI
25	WMAO-TV	GREENWOOD MS	278.1	LIC	BLEDT -20090612AAI
25	WPTY-TV	MEMPHIS TN	332.7	LIC	BLCDT -20050628AAP
25	WTVF	NASHVILLE TN	384.3	CP	BPCDT -20110824ACF
25	WTVF-DR	NASHVILLE TN	384.3	APP	BPFS -20100830ACL
27	WAIQ	MONTGOMERY AL	135.5	LIC	BLEDT -20060706ACK
28	WTTO	HOMEWOOD AL	101.0	LIC	BLCDT -20060406AAG
29	WBIH	SELMA AL	81.4	LIC	BLCDT -20090619AAY
32	WNCF	MONTGOMERY AL	115.5	LIC	BLCDT -20090428ABG
32	WNCF	MONTGOMERY AL	115.5	CP MOD	BMPCDT -20080619AHK
33	WCFT-TV	TUSCALOOSA AL	69.1	LIC	BLCDT -20091106ABO
39	WBIQ	BIRMINGHAM AL	101.0	PLN	DTVPLN -DTVP1384
39	WBIQ-DT	BIRMINGHAM AL	101.0	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WJMY-CA	DEMOPOLIS AL	BLTTA -20050404ADB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WDBB	BESSEMER AL	69.9	LIC	BLCDT -20060421ABG
21	WVTM-DR	BIRMINGHAM AL	102.1	APP	BPRM -20110513AER
24	WMDN	MERIDIAN MS	117.9	LIC	BLCDT -20090304ADW
25	WKNI-LP	ANDALUSIA AL	198.0	CP	BPTTL -20061226AAF
25	WFNA	GULF SHORES AL	244.0	LIC	BLCDT -20100614AQJ
25	WATL	ATLANTA GA	321.2	LIC	BLCDT -20020716AAH
25	W25AD	COLUMBUS MS	104.5	CP	BDFCDTL -20110623ADS
25	W25AD	COLUMBUS MS	104.5	LIC	BLTT -20031126AOI
25	WMAO-TV	GREENWOOD MS	278.1	LIC	BLEDT -20090612AAI
25	WPTY-TV	MEMPHIS TN	332.7	LIC	BLCDT -20050628AAP
25	WTVF	NASHVILLE TN	384.3	CP	BPCDT -20110824ACF
25	WTVF-DR	NASHVILLE TN	384.3	APP	BPFS -20100830ACL
27	WAIQ	MONTGOMERY AL	135.5	LIC	BLEDT -20060706ACK

28	WTTO	HOMEWOOD AL	101.0	LIC	BLCDT	-20060406AAG
29	WBIH	SELMA AL	81.4	LIC	BLCDT	-20090619AAY
32	WNCF	MONTGOMERY AL	115.5	LIC	BLCDT	-20090428ABG
32	WNCF	MONTGOMERY AL	115.5	CP MOD	BMPCDT	-20080619AHK
33	WCFT-TV	TUSCALOOSA AL	69.1	LIC	BLCDT	-20091106ABO
39	WBIQ	BIRMINGHAM AL	101.0	PLN	DTVPLN	-DTVP1384
39	WBIQ-DT	BIRMINGHAM AL	101.0	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WSB-TV	ATLANTA GA	BLCDT	-20100129ADE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WBIQ	BIRMINGHAM AL	228.4	PLN	DTVPLN	-DTVP1384
39	WSAV-TV	SAVANNAH GA	342.9	LIC	BLCDT	-20050705AAP
39	WMYT-TV	ROCK HILL SC	343.0	LIC	BLCDT	-20090619ACX
39	WKTC	SUMTER SC	334.0	LIC	BLCDT	-20071022BDD
40	WMGT-TV	MACON GA	134.7	LIC	BLCDT	-20070112AHJ
40	WDSI-TV	CHATTANOOGA TN	181.2	LIC	BLCDT	-20051011ABS
39	WBIQ-DT	BIRMINGHAM AL	228.4	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 4  
Before Analysis

Results for: 39A GA ATLANTA BLCDT 20100129ADE LIC  
HAAT 316.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4766233	30319.2
not affected by terrain losses	4708965	29089.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	49130	1008.5
lost to ATV IX only	49130	1008.5
lost to all IX	49130	1008.5

Potential Interfering Stations Included in above Scenario 1

39A GA SAVANNAH	BLCDT	20050705AAP	LIC
39A SC ROCK HILL	BLCDT	20090619ACX	LIC
39A SC SUMTER	BLCDT	20071022BDD	LIC
40A GA MACON	BLCDT	20070112AHJ	LIC
40A TN CHATTANOOGA	BLCDT	20051011ABS	LIC
39A AL BIRMINGHAM	DTVPLN	DTVP1384	PLN

After Analysis

Results for: 39A GA ATLANTA                      BLCDT              20100129ADE    LIC  
 HAAT 316.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4766233	30319.2
not affected by terrain losses	4708965	29089.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	27924	546.4
lost to ATV IX only	27924	546.4
lost to all IX	27924	546.4

Potential Interfering Stations Included in above Scenario              1

39A GA SAVANNAH	BLCDT	20050705AAP	LIC
39A SC ROCK HILL	BLCDT	20090619ACX	LIC
39A SC SUMTER	BLCDT	20071022BDD	LIC
40A GA MACON	BLCDT	20070112AHJ	LIC
40A TN CHATTANOOGA	BLCDT	20051011ABS	LIC
39A AL BIRMINGHAM	USERRECORD01		APP

Percent new IX = -0.4551%

Worst case new IX -0.4551% Scenario              1

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Analysis of Interference to Affected Station              5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	WLOX-DR	BILOXI MS	BPRM -20090710AUS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
39	WBIQ	BIRMINGHAM AL	374.8	PLN	DTVPLN -DTVPLN1384
39	WLOX	BILOXI MS	0.0	LIC	BLCDT -20091217AEF
40	WPAN	FORT WALTON BEACH FL	203.9	CP	BPCDT -19991029AGW
40	WDBD	JACKSON MS	206.0	LIC	BLCDT -20090612ADU
39	WBIQ-DT	BIRMINGHAM AL	374.8	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station              6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	WLOX	BILOXI MS	BLCDT -20091217AEF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WBIQ	BIRMINGHAM AL	374.8	PLN	DTVPLN	-DTVP1384
39	WLOX-DR	BILOXI MS	0.0	APP	BPRM	-20090710AUS
40	WPAN	FORT WALTON BEACH FL	203.9	CP	BPCDT	-19991029AGW
40	WDBD	JACKSON MS	206.0	LIC	BLCDT	-20090612ADU
39	WBIQ-DT	BIRMINGHAM AL	374.8	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	W39CD	FULTON MS	BPTTA	-20100601AGO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
35	WCBI-TV	COLUMBUS MS	66.5	LIC	BLCDT	-20020822ABO
36	WMAV-TV	OXFORD MS	135.5	LIC	BLEDT	-20090612AAK
38	NEW	TUPELO MS	43.4	APP	BNPDTL	-20100512AIO
39	WBIQ	BIRMINGHAM AL	148.6	PLN	DTVPLN	-DTVP1384
39	WBCF-LD	FLORENCE AL	98.8	LIC	BLDTL	-20110525AEX
39	WETU-LP	WETUMPKA AL	255.9	LIC	BLTTL	-19970206JC
39	KASN	PINE BLUFF AR	366.1	LIC	BLCDT	-20020904AAF
39	WSB-TV	ATLANTA GA	361.0	LIC	BLCDT	-20100129ADE
39	WLOX-DR	BILOXI MS	378.9	APP	BPRM	-20090710AUS
39	WLOX	BILOXI MS	378.9	LIC	BLCDT	-20091217AEF
39	WJKT	JACKSON TN	207.2	LIC	BLCDT	-20050323AER
40	W40BZ	TUPELO MS	41.4	CP	BPTTL	-20090825AAA
43	WMAA	COLUMBUS MS	46.9	CP MOD	BMPEDT	-20020611ABI
39	WBIQ-DT	BIRMINGHAM AL	148.6	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2  
Scenario 1 Affected station 7  
Before Analysis

Results for: 39N MS FULTON	BPTTA	20100601AGO	CP
	POPULATION	AREA (sq km)	
within Noise Limited Contour	42783	2542.4	
not affected by terrain losses	42318	2506.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	57	16.0	
lost to all IX	57	16.0	

Potential Interfering Stations Included in above Scenario 1

39A TN JACKSON	BLCDT	20050323AER	LIC
39A AL BIRMINGHAM	DTVPLN	DTVP1384	PLN



not affected by terrain losses	42771	2514.2
lost to NTSC IX	116	8.0
lost to additional IX by ATV	796	32.0
lost to all IX	912	40.0

Potential Interfering Stations Included in above Scenario 1

40N MS TUPELO	BPTTL	20090825AAA	CP
39A AL BIRMINGHAM	DTVPLN	DTVP1384	PLN

After Analysis

Results for: 39N MS FULTON	BLTTA	20090811ABQ	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	42806	2526.2	
not affected by terrain losses	42771	2514.2	
lost to NTSC IX	116	8.0	
lost to additional IX by ATV	239	12.0	
lost to all IX	355	20.0	

Potential Interfering Stations Included in above Scenario 1

40N MS TUPELO	BPTTL	20090825AAA	CP
39A AL BIRMINGHAM	USERRECORD01		APP

Percent new IX = -1.3012%

Worst case new IX -1.3012% Scenario 1

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	WYHB-CA	CHATTANOOGA TN	BLTTTL -19980824JC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
32	WAAY-TV	HUNTSVILLE AL	125.4	LIC	BLCDDT -20050701ABO
39	WBIQ	BIRMINGHAM AL	237.2	PLN	DTVPLN -DTVP1384
39	WSB-TV	ATLANTA GA	181.2	LIC	BLCDDT -20100129ADE
39	WLEX-TV	LEXINGTON KY	324.0	CP MOD	BMPCDDT -20050728AOP
39	WLEX-TV	LEXINGTON KY	324.0	LIC	BLCDDT -20050728AOX
39	W09AG	FRANKLIN NC	154.4	CP	BDISDDT -20090928ACX
39	WMYT-TV	ROCK HILL SC	374.7	LIC	BLCDDT -20090619ACX
39	WKRP-LD	COOKEVILLE TN	102.9	CP	BNPDDL -20090825ATV
39	WJKT	JACKSON TN	351.9	LIC	BLCDDT -20050323AER
40	WDSI-TV	CHATTANOOGA TN	0.4	LIC	BLCDDT -20051011ABS
41	WZDX	HUNTSVILLE AL	125.4	LIC	BLCDDT -20090706AEV
42	WFLI-TV	CLEVELAND TN	0.4	LIC	BLCDDT -20050808AGH
46	WHNT-DR	HUNTSVILLE AL	125.3	APP	BPRM -20080619ALW
39	WBIQ-DT	BIRMINGHAM AL	237.2	APP	USERRECORD-01

Total scenarios = 1

Result key: 4  
Scenario 1 Affected station 9  
Before Analysis

Results for: 39N TN CHATTANOOGA	BLTTL	19980824JC	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	316348	1153.1	
not affected by terrain losses	306778	1097.0	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	5173	60.1	
lost to all IX	5173	60.1	

Potential Interfering Stations Included in above Scenario 1

39A GA ATLANTA	BLCDT	20100129ADE	LIC
39A NC FRANKLIN	BDISDTT	20090928ACX	CP
40A TN CHATTANOOGA	BLCDT	20051011ABS	LIC
42A TN CLEVELAND	BLCDT	20050808AGH	LIC
39A AL BIRMINGHAM	DTVPLN	DTVP1384	PLN

After Analysis

Results for: 39N TN CHATTANOOGA	BLTTL	19980824JC	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	316348	1153.1	
not affected by terrain losses	306778	1097.0	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	5173	60.1	
lost to all IX	5173	60.1	

Potential Interfering Stations Included in above Scenario 1

39A GA ATLANTA	BLCDT	20100129ADE	LIC
39A NC FRANKLIN	BDISDTT	20090928ACX	CP
40A TN CHATTANOOGA	BLCDT	20051011ABS	LIC
42A TN CLEVELAND	BLCDT	20050808AGH	LIC
39A AL BIRMINGHAM	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WJKT	JACKSON TN	BLCDT	-20050323AER

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WBIQ	BIRMINGHAM AL	331.3	PLN	DTVPLN	-DTVP1384
39	KASN	PINE BLUFF AR	320.2	LIC	BLCDDT	-20020904AAF
39	WAV-TV	TERRE HAUTE IN	412.4	LIC	BLCDDT	-20090618AAW
39	KETC	ST. LOUIS MO	320.5	LIC	BLEDT	-20090804ABV
39	WBIQ-DT	BIRMINGHAM AL	331.3	APP	USERRECORD-01	

Total scenarios = 1

Result key: 5  
Scenario 1 Affected station 10  
Before Analysis

Results for: 39A TN JACKSON BLCDDT 20050323AER LIC  
HAAT 296.0 m, ATV ERP 392.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	610461	24042.3
not affected by terrain losses	609952	23965.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	336	48.2
lost to ATV IX only	336	48.2
lost to all IX	336	48.2

Potential Interfering Stations Included in above Scenario 1

39A AL BIRMINGHAM DTVPLN DTVP1384 PLN

After Analysis

Results for: 39A TN JACKSON BLCDDT 20050323AER LIC  
HAAT 296.0 m, ATV ERP 392.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	610461	24042.3
not affected by terrain losses	609952	23965.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	220	32.2
lost to ATV IX only	220	32.2
lost to all IX	220	32.2

Potential Interfering Stations Included in above Scenario 1

39A AL BIRMINGHAM USERRECORD01 APP

Percent new IX = -0.0190%

Worst case new IX -0.0190% Scenario 1

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	WIRE-CD	ATLANTA GA	BLDTA	-20100412AAP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WSB-TV	ATLANTA GA	2.2	LIC	BLCDDT	-20100129ADE
40	WTWC-TV	TALLAHASSEE FL	342.5	LIC	BLCDDT	-20100216ADC
40	WMGT-TV	MACON GA	132.8	LIC	BLCDDT	-20070112AHJ
40	W69CN	BRYSON CITY NC	201.5	CP MOD	BMPDPT	-20110715AAF
40	W69CN	BRYSON CITY NC	201.5	CP	BDISDPT	-20060317AED
40	W69CN	BRYSON CITY NC	201.5	CP	BDISDPT	-20090824ACO
40	WHKY-TV	HICKORY NC	343.5	CP	BPCDDT	-20080619AAH
40	WHKY-TV	HICKORY NC	354.1	LIC	BLCDDT	-20060630ABW
40	WHKY-TV	HICKORY NC	376.8	CP MOD	BMPCDDT	-20090310ADE
40	WHKY-TV	HICKORY NC	343.5	CP MOD	BMPCDDT	-20090310ADE
40	WDSI-TV	CHATTANOOGA TN	183.2	LIC	BLCDDT	-20051011ABS
41	WATC-DT	ATLANTA GA	36.8	LIC	BLEDDT	-20070912AAT
41	WATC-DT	ATLANTA GA	36.8	CP	BPEDT	-20080619AIR
39	WBIQ-DT	BIRMINGHAM AL	228.3	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	W49AY	BIRMINGHAM AL	BSTA	-20110526ABI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WBIQ	BIRMINGHAM AL	0.3	PLN	DTVPLN	-DTVP1384
45	WPXH-TV	GADSDEN AL	55.1	LIC	BLCDDT	-20020510AAL
46	W46DK	BIRMINGHAM AL	0.3	LIC	BLTT	-20030311AIA
46	WMCF-TV	MONTGOMERY AL	133.0	LIC	BLCDDT	-20100329AFH
47	WOIL-LP	TALLADEGA AL	56.4	LIC	BLTTL	-19950531IR
47	WOIL-LP	TALLADEGA AL	64.0	CP	BDFCDTA	-20110412AAE
47	NEW	TUSCALOOSA AL	126.7	APP	BNPDTL	-20101012AAW
47	WPCT	PANAMA CITY BEACH FL	379.6	LIC	BLCDDT	-20100826AEX
47	WLJT-DT	LEXINGTON TN	296.3	LIC	BLEDDT	-20080219BJY
50	WBRC	BIRMINGHAM AL	1.1	LIC	BLCDDT	-20091005ACI
62	W62BG	BIRMINGHAM AL	1.3	LIC	BLTT	-19880226IF
39	WBIQ-DT	BIRMINGHAM AL	0.3	APP	USERRECORD-01	

Total scenarios = 1

Result key: 6  
 Scenario 1 Affected station 12  
 Before Analysis

Results for: 47N AL BIRMINGHAM                      BSTA                      20110526ABI   APP  
   POPULATION            AREA (sq km)



47	NEW	TUSCALOOSA AL	126.7	APP	BNPDTL	-20101012AAW
47	WPCT	PANAMA CITY BEACH FL	379.6	LIC	BLCDDT	-20100826AEX
47	WLJT-DT	LEXINGTON TN	296.3	LIC	BLEDT	-20080219BJY
50	WBRC	BIRMINGHAM AL	1.1	LIC	BLCDDT	-20091005ACI
62	W62BG	BIRMINGHAM AL	1.3	LIC	BLTT	-19880226IF
39	WBIQ-DT	BIRMINGHAM AL	0.3	APP	USERRECORD-01	

Total scenarios = 1

Result key: 7  
Scenario 1 Affected station 13  
Before Analysis

Results for: 47N AL BIRMINGHAM BDISTTA 20080804AEH CP  
POPULATION AREA (sq km)  
within Noise Limited Contour 623147 1680.5  
not affected by terrain losses 588767 1519.3  
lost to NTSC IX 379496 838.2  
lost to additional IX by ATV 0 0.0  
lost to all IX 379496 838.2

Potential Interfering Stations Included in above Scenario 1

46N AL BIRMINGHAM	BLTT	20030311AIA	LIC
47N AL TALLADEGA	BLTTL	19950531IR	LIC
62N AL BIRMINGHAM	BLTT	19880226IF	LIC
47A AL TALLADEGA	BDFCDTA	20110412AAE	CP
50A AL BIRMINGHAM	BLCDDT	20091005ACI	LIC
39A AL BIRMINGHAM	DTVPLN	DTVP1384	PLN

After Analysis

Results for: 47N AL BIRMINGHAM BDISTTA 20080804AEH CP  
POPULATION AREA (sq km)  
within Noise Limited Contour 623147 1680.5  
not affected by terrain losses 588767 1519.3  
lost to NTSC IX 379496 838.2  
lost to additional IX by ATV 0 0.0  
lost to all IX 379496 838.2

Potential Interfering Stations Included in above Scenario 1

46N AL BIRMINGHAM	BLTT	20030311AIA	LIC
47N AL TALLADEGA	BLTTL	19950531IR	LIC
62N AL BIRMINGHAM	BLTT	19880226IF	LIC
47A AL TALLADEGA	BDFCDTA	20110412AAE	CP
50A AL BIRMINGHAM	BLCDDT	20091005ACI	LIC
39A AL BIRMINGHAM	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Potential Interfering Stations Included in above Scenario 1

46N	AL	BIRMINGHAM	BLTT	20030311AIA	LIC
47N	AL	TALLADEGA	BLTTL	19950531IR	LIC
62N	AL	BIRMINGHAM	BLTT	19880226IF	LIC
47A	AL	TALLADEGA	BDFCDTA	20110412AAE	CP
50A	AL	BIRMINGHAM	BLCDT	20091005ACI	LIC
39A	AL	BIRMINGHAM	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	WOIL-LP	TALLADEGA AL	BLTTL	-19950531IR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WBIQ	BIRMINGHAM AL	56.2	PLN	DTVPLN	-DTV1384
45	WPXH-TV	GADSDEN AL	58.5	LIC	BLCDT	-20020510AAL
46	WMCF-TV	MONTGOMERY AL	112.0	LIC	BLCDT	-20100329AFH
47	W49AY	BIRMINGHAM AL	56.4	APP	BSTA	-20110526ABI
47	W49AY	BIRMINGHAM AL	56.4	CP	BDISTTA	-20080804AEH
47	W49AY	BIRMINGHAM AL	56.4	APP	BSTA	-20110525AAW
47	W46CF	MOULTON AL	152.1	APP	BDISTTL	-20060324AAB
47	WPCT	PANAMA CITY BEACH FL	361.1	LIC	BLCDT	-20100826AEX
47	WLJT-DT	LEXINGTON TN	336.1	LIC	BLEDT	-20080219BJY
50	WBRC	BIRMINGHAM AL	55.6	LIC	BLCDT	-20091005ACI
39	WBIQ-DT	BIRMINGHAM AL	56.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WBIQ-DT	BIRMINGHAM AL	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WSB-TV	ATLANTA GA	228.4	LIC	BLCDT	-20100129ADE
39	WLOX-DR	BILOXI MS	374.8	APP	BPRM	-20090710AUS
39	WLOX	BILOXI MS	374.8	LIC	BLCDT	-20091217AEF
39	WJKT	JACKSON TN	331.3	LIC	BLCDT	-20050323AER

Total scenarios = 3

Result key: 9  
Scenario 1 Affected station 16  
Before Analysis

Results for: 39A AL BIRMINGHAM USERRECORD01 APP  
HAAT 411.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1555820	30878.2
not affected by terrain losses	1536147	29745.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	24189	560.4
lost to ATV IX only	24189	560.4
lost to all IX	24189	560.4

Potential Interfering Stations Included in above Scenario 1

39A GA ATLANTA	BLCDT	20100129ADE	LIC
39A MS BILOXI	BLCDT	20091217AEF	LIC
39A TN JACKSON	BLCDT	20050323AER	LIC

Result key: 10  
Scenario 2 Affected station 16  
Before Analysis

Results for: 39A AL BIRMINGHAM USERRECORD01 APP  
HAAT 411.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1555820	30878.2
not affected by terrain losses	1536147	29745.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	24189	560.4
lost to ATV IX only	24189	560.4
lost to all IX	24189	560.4

Potential Interfering Stations Included in above Scenario 2

39A GA ATLANTA	BLCDT	20100129ADE	LIC
39A MS BILOXI	BPRM	20090710AUS	APP
39A MS BILOXI	BLCDT	20091217AEF	LIC
39A TN JACKSON	BLCDT	20050323AER	LIC

Result key: 11  
Scenario 3 Affected station 16  
Before Analysis

Results for: 39A AL BIRMINGHAM USERRECORD01 APP  
HAAT 411.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1555820	30878.2
not affected by terrain losses	1536147	29745.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	24189	560.4
lost to ATV IX only	24189	560.4
lost to all IX	24189	560.4

Potential Interfering Stations Included in above Scenario 3

39A GA ATLANTA	BLCDT	20100129ADE	LIC
39A MS BILOXI	BLCDT	20091217AEF	LIC
39A TN JACKSON	BLCDT	20050323AER	LIC

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