

**SELLMEYER ENGINEERING**  
**BROADCAST & COMMUNICATIONS CONSULTING ENGINEERS**  
2 Pecan Grove Circle, Lucas, Texas 75002  
MEMBER AFCCE

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**NOTES CONCERNING WTFX MEASUREMENTS**

THE FOLLOWING MEASUREMENTS MARKED AS WTFX 15-S-1 THROUGH 15-S-17R WERE EXTRACTED FROM THE WVBE APPLICATION FILE NUMBER  
BP-20040112ABF

THE WTFX CALL LETTERS WERE CHANGED TO WLVE ON APRIL 17, 2009  
WLVE HAS BEEN SILENT SINCE NOVEMBER 17, 2008

ALL REFERENCES IN THE INSTANT APPLICATION REFERRING TO WLVE SHOULD  
REFERENCE THIS SET OF MEASURED DATA

# Exhibit 15-S-1 Field Intensity Measurement Data WTFX Bearing N 180.0 E

R. Morgan Burrow, P.E. & Associates, P.C.  
1841 Highland Ridge Rd., Berkeley Springs, WV 25411

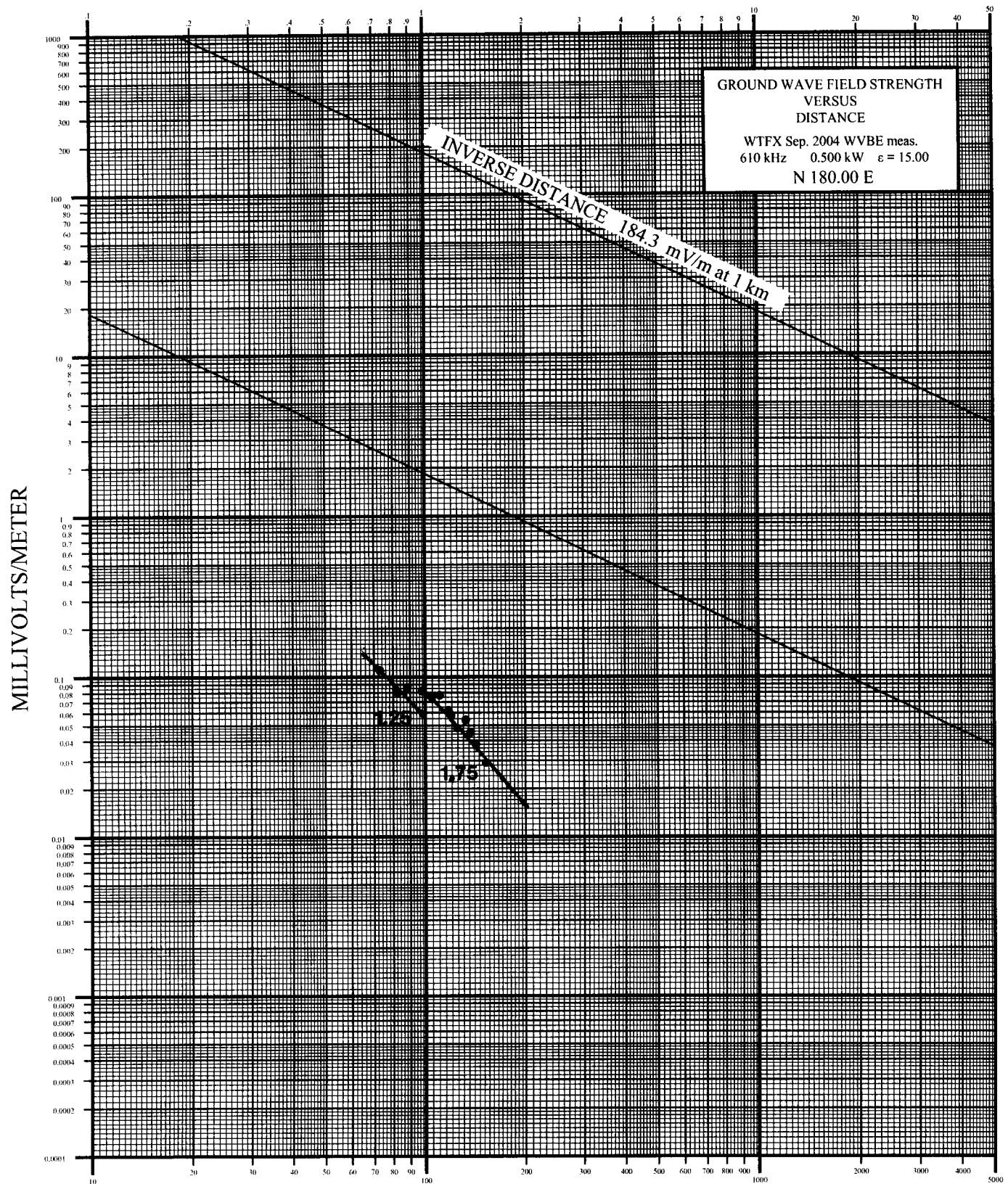
WTFX 610 kHz 0.5 kW DA-D Winchester, VA Sep 2004 WVBE meas. Stub bearing N 180.0 E

Pt No.	Distance (Miles) (Km.)	DA-Day (mV/m)	Point Description	Meas. Date:Time Times Local (EDT)	GPS Coordinates (D,M,S - D,M,S)
1	45.3000 72.9033	0.110	Near driveway 3243 Slate Mill Road	09182004:1805	38,32,29.3-78,13,12.9
2	51.2000 82.3984	0.080	Driveway 3567 W. Hoover Road	" :1743	38,27,23.3-78,13,12.5
3	54.8000 88.1920	0.086	US 29 NB near Rt. 629 (Lonnie Burke Rd.)	" :1717	38,24,13.2-78,13,07.6
4	60.6000 97.5262	0.082	Rt. 230 EB and Homestead La. (near box 3973)	" :1647	38,19,07.8-78,13,13.0
5	64.8000 104.2855	0.075	Tatums School Rd. acr. from tel. riser 12-08-3-7	" :1620	38,15,34.7-78,13,14.5
6	68.6000 110.4010	0.077	Near driveway 9020 Pumphouse Rd.	" :1607	38,12,15.6-78,13,11.7
7	72.8000 117.1602	0.062	US 33 E, 75 ft W of mailbox 19104	" :1153	38,08,35.7-78,13,11.6
8	74.1000 119.2524	0.058	Rts. 231 and 646	" :1202	38,07,25.0-78,13,13.3
9	77.4000 124.5632	0.048	VA 22 EB at speed 45 sign 200 t W of White Pine La.	" :1214	38,04,32.0-78,13,13.7
10	82.1000 132.1271	0.054	Green Spring Rd. and Marshall Rd (sign near box 382)	" :1226	38,00,27.1-78,13,12.6
11	84.7000 136.3114	0.045	US 250 and US 15 near deli - Zion X-Roads, VA	" :1251	37,58,14.7-78,13,14.2
12	88.1000 141.7832	0.038	GPS loc. on Bybees Church Road	" :1337	37,55,14.4-78,13,14.5
13	94.4000 151.9221	0.029	GPS loc. on Carysbrook Rd app. 0.5 mi E of Rivanna River Br.	" :1419	37,49,47.4-78,13,19.6

Weather Information 09182004: 70 degrees, cloudy.

Measured by R. Morgan Burrow Jr. for WVBE using Potomac Inst. FIM-41, s/n 331, cal. 16 Nov. 1999.

# KILOMETERS FROM ANTENNA



**WTFX Bearing N 180.0 E**

**Radio Station WVBE  
Roanoke, Virginia  
610 kHz 2.5/10.0 kW DA-2-U**

**R. Morgan Burrow, P.E. & Assoc., P.C.  
Berkeley Springs, WV 25411**

**Exhibit 15-S-2  
May 2006**

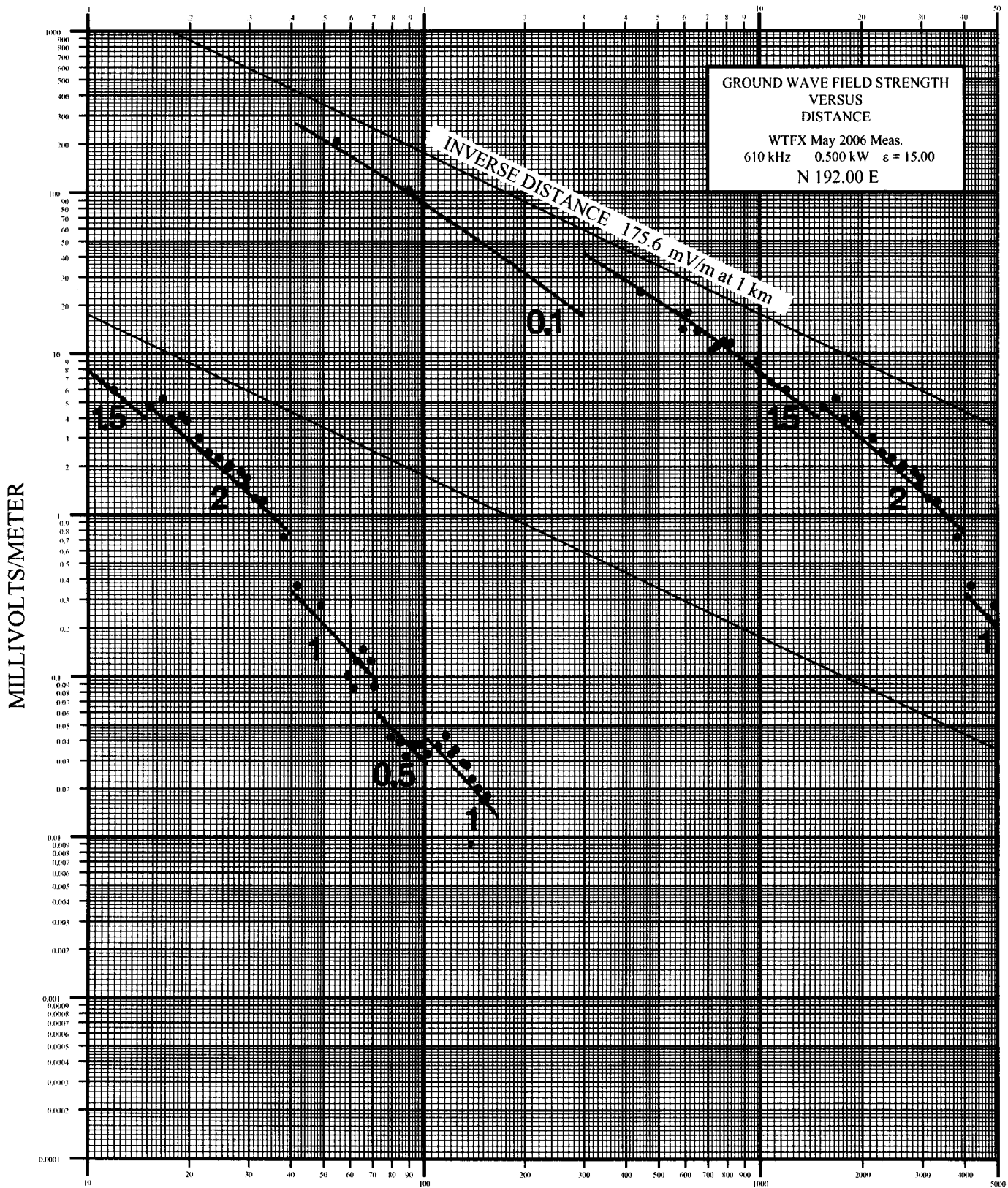
# Exhibit 15-S-3 Field Intensity Measurement Data WTFX Bearing N 192.0 E

R. Morgan Burrow, P.E. & Associates, P.C.  
1841 Highland Ridge Rd., Berkeley Springs, WV 25411

WTFX 610 kHz 0.5 kW DA-2-U Winchester VA May-Aug 2004 & May 2006 WVBE Meas. Full Bearing N 192.0 E

Pt No.	Distance (Miles)	Distance (Km.)	DA-Day (mV/m)	Point Description	Meas. Date:Time Times Local (EDT)	GPS Coordinates (D,M,S - D,M,S)
1	0.3400	0.5472	206.000	US 50 EB near driveway 1972 (Roseland Baptist Church)	05022006:1406	39,11,35.8-78,13,17.6
2	0.5600	0.9012	102.000	Round Hill Rd. across from traffic sign (meas. in road)	" :1414	39,11,24.7-78,13,22.1
3	2.7500	4.4257	24.100	Driveway 1966 Cedar Creek Grade	" :1442	39,09,32.6-78,13,49.7
4	3.6800	5.9224	14.200	Front of 177 Stonymeade Dr.	" :1525	39,08,46.2-78,14,04.9
5	3.8000	6.1155	18.000	Greenfield Ave. & Stonymeade Dr., near transformer pad	" :1520	39,08,39.4-78,14,05.6
6	4.0600	6.5339	13.700	Driveway 112 Cooper Lane	" :1529	39,08,25.7-78,14,06.2
7	4.4500	7.1616	10.300	App. 100 ft. E. of J.E.B. Drive	" :1537	39,08,06.7-78,14,14.5
8	4.6300	7.4513	11.100	Driveway 190 Neill Dr.	" :1542	39,07,57.2-78,14,18.5
9	4.8700	7.8375	11.900	Across from driveway 195 Rubinett Way	" :1505	39,07,44.7-78,14,20.6
10	5.1100	8.2237	11.600	Across from driveway 4338 Middle Road	" :1502	39,07,33.2-78,14,24.9
11	6.1200	9.8492	8.900	Springdale La., east of marker	" :1557	39,06,41.4-78,14,38.3
12	7.4300	11.9574	5.950	Driveway near mailbox 1030 Marlboro Rd.	05012006:1925	39,05,34.9-78,14,56.5
13	9.5300	15.3370	4.650	150 ft. W of box 388 Vauclause Rd.	" :1919	39,03,47.3-78,15,15.4
14	10.4000	16.7372	5.250	Across from box 262 Klines Mill Rd.	" :1911	39,03,04.7-78,15,36.5
15	11.0000	17.7028	3.950	Road to Middletown Elem. Sch. near US 11 NB	" :1859	39,02,34.8-78,15,44.6
16	11.8000	18.9903	4.150	GPS location on N. Buckton Rd. parallel to I-81 N	" :1850	39,01,51.0-78,15,57.0
17	12.2000	19.6340	3.870	Reliance Rd., lot of Lindsey Office Center	" :1747	39,01,28.1-78,16,04.0
18	13.3000	21.4043	3.020	Inters. Shelva La. & Sulphur Spring Rd.	" :1756	39,00,33.7-78,16,18.6
19	14.2000	22.8527	2.430	Inters. CR 611 & Forest Grove Rd.	" :1759	38,59,48.5-78,16,29.8
20	15.2000	24.4620	2.270	GPS location near 1503 Gafia Lodge Rd.	" :1807	38,58,55.6-78,16,44.8
21	16.2000	26.0714	1.970	Inters. Bucks Mill Rd. & Meadow View Lane	" :1657	38,58,06.9-78,16,57.8
22	16.4000	26.3932	2.040	Near mailbox 4572 Rt. 55 (WB)	" :1653	38,57,56.6-78,16,58.0
23	17.7000	28.4854	1.850	Driveway across from mailbox 256 Wakeman Mill Rd.	" :1647	38,56,51.0-78,17,17.5
24	18.1000	29.1291	1.520	Across from inters. Rt 419 (Mtn. Rd) & Massanutten Farms Rd.	" :1515	38,56,26.9-78,17,25.2
25	18.4000	29.6119	1.700	Dead end of Forest View Dr., east of # 53	" :1524	38,56,13.7-78,17,31.4
26	19.5000	31.3822	1.270	Dead end of Reel Lane	" :1550	38,55,15.8-78,17,35.3
27	20.7000	33.3134	1.230	Across from driveway 5268 Panhandle Road	" :1557	38,54,16.7-78,18,00.3
28	23.6000	37.9805	0.730	Guest State Park-lot at head of Paw Paw trail	" :1722	38,51,47.6-78,18,39.2
29	25.9000	41.6820	0.365	US 340 SB - lot of Bentonville Baptist on hill near cross	" :1734	38,49,53.0-78,19,07.0
30	30.4000	48.9241	0.275	End of Valley View Rd, tel riser ALJ-10-1C	" :1752	38,46,05.5-78,20,18.5
31	36.6000	58.9020	0.102	Mailbox 2581 Rocky Branch Rd.	" :1840	38,40,43.0-78,21,42.3
32	38.0000	61.1551	0.085	US 211 EB at gate with stone columns (el. 1440 ft)	" :1400	38,39,34.2-78,21,59.3

# KILOMETERS FROM ANTENNA



**WTFX Bearing N 192.0 E**

**Radio Station WVBE  
Roanoke, Virginia  
610 kHz 2.5/10.0 kW DA-2-U**

**R. Morgan Burrow, P.E. & Assoc., P.C.  
Berkeley Springs, WV 25411**

**Exhibit 15-S-4  
May 2006**

**Exhibit 15-S-5**  
**Field Intensity Measurement Data**  
**WTFX Bearing N 212.0 E**

R. Morgan Burrow, P.E. & Associates, P.C.  
1841 Highland Ridge Rd., Berkeley Springs, WV 25411

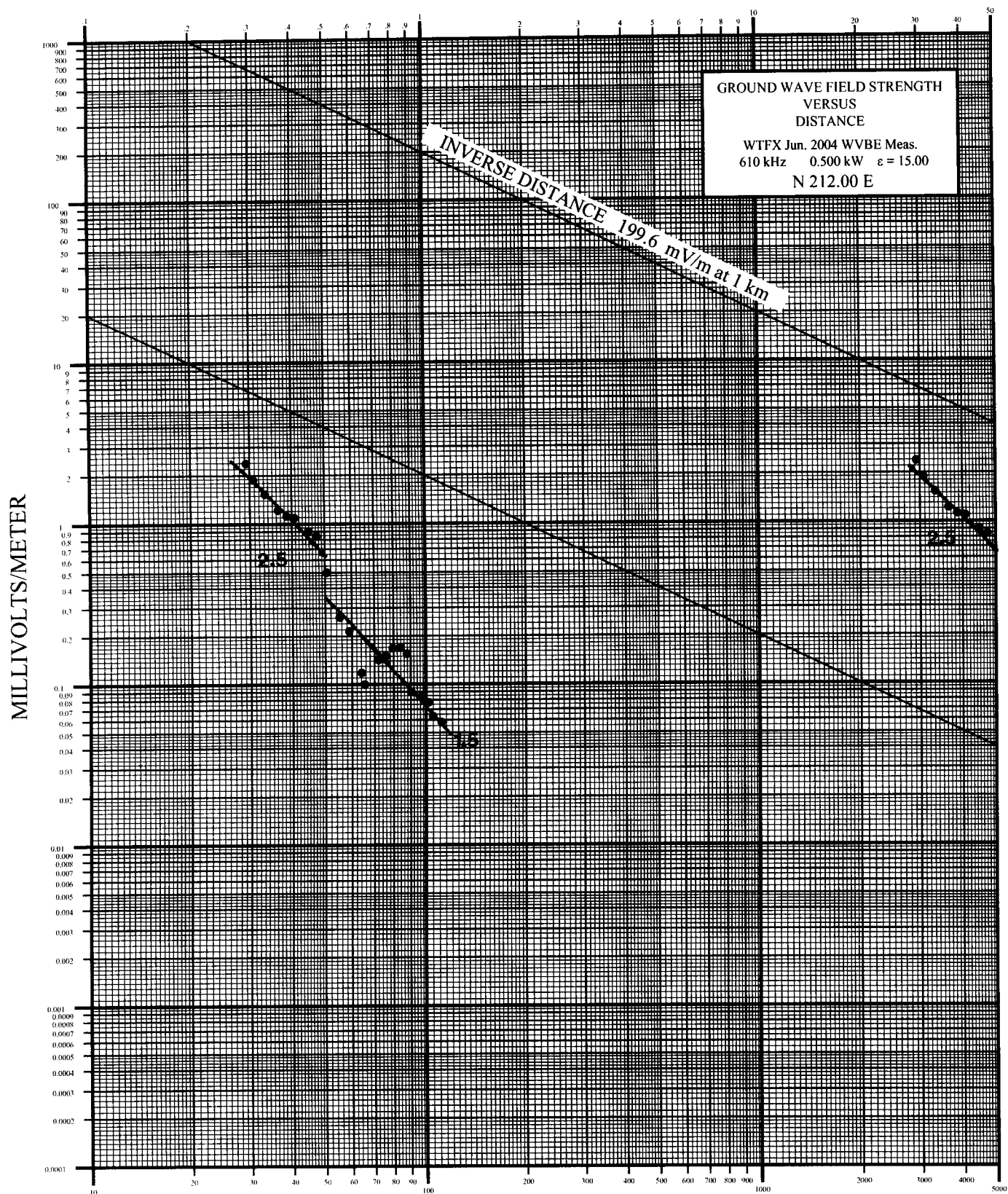
WTFX 610 kHz 0.5 kW DA-2-U Winchester, VA. Jun-Aug 2004 WVBE Meas. Stub Bearing N 212.0 E

Pt No.	Distance (Miles)	(Km.)	DA-Day (mV/m)	Point Description	Meas. Date:Time Times Local (EDT)	GPS Coordinates (D,M,S - D,M,S)
1	18.2000	29.2901	2.380	US 11 NB - Median crossover to Fravel Pike	08112004:1707	38,58,28.6-78,23,57.3
2	19.1000	30.7385	1.880	Millner Rd, 0.3 mi E of US 11 near double curve sign	" :1729	38,57,45.3-78,24,29.7
3	20.7000	33.3134	1.530	Driveway 1018 Hahns Lane	" :1736	38,56,35.0-78,25,24.9
4	22.6000	36.3712	1.220	GPS location on Old Schoolhouse Dr. near driveway 1216	" :1750	38,55,10.3-78,26,34.4
5	24.0000	38.6243	1.120	Ridgley Rd., across from tel. riser 4-857-30 (near 1548)	" :1811	38,54,07.7-78,27,23.2
6	25.3000	40.7164	1.090	Near tel. riser 93-R Moose Rd.	" :1829	38,53,10.4-78,28,09.2
7	27.8000	44.7398	0.900	Across from box 2011 S. Wenger La.	" :1238	38,51,20.2-78,29,37.6
8	29.4000	47.3147	0.840	Dead end of Chapmans Landing Rd. (Laurel Hill Farm gate)	" :1223	38,50,16.9-78,30,51.5
9	31.5000	50.6943	0.500	Edinburg Gap Rd. and Mash Lane	" :1124	38,48,36.9-78,31,42.4
10	34.3000	55.2005	0.262	Massanutten Ridge/Taskers Gap Rd.- GPS location (0.9 off brg)	" :1140	38,46,11.0-78,32,36.4
11	36.6000	58.9020	0.215	Massanutten Ridge/Taskers Gap Rd. at Massanutten Trail sign	" :1150	38,44,30.5-78,33,59.3
12	39.8000	64.0519	0.118	Moreland Gap Rd. near creek and pole	" :1046	38,42,31.1-78,36,38.1
13	40.7000	65.5003	0.100	Across from pole w/silver paint near 1118 Woods Chapel Rd.	" :1053	38,41,49.5-78,37,11.5
14	44.7000	71.9377	0.142	US 211 WB at 1002 LH turn sign	" :1037	38,38,51.7-78,39,31.2
15	47.1000	75.8001	0.150	Craney Island Rd. near tel. riser 36	" :1024	38,37,03.5-78,40,51.5
16	49.4000	79.5016	0.168	GPS loc. on Moores Mill Rd. at turnaround across from sign	" :1012	38,35,21.3-78,42,14.5
17	52.1000	83.8468	0.170	Near 864 Mauzy-Athlone Rd.	" :1005	38,33,22.0-78,43,48.5
18	54.5000	87.7093	0.155	Martz Rd. near Indian Trail Rd.	" :0957	38,31,40.5-78,45,15.3
19	56.1000	90.2842	0.090	Behind mailbox 8572 Indian Trail Rd.	" :0946	38,30,24.5-78,46,05.6
20	60.5000	97.3653	0.085	Near 3214 Old Furnace Rd.	" :0935	38,27,11.5-78,50,38.8
21	63.2000	101.7105	0.077	Chestnut Ridge Rd near US33 near side of Joe Bowman Chev.	" :0925	38,25,11.4-78,50,19.2
22	65.2000	104.9292	0.063	Lot of church, 1871 Boyers Rd (Boyers & Port Republic Rds)	" :0852	38,23,22.0-78,43,48.5
23	69.1000	111.2057	0.058	Driveway 2824 Friedens Church Road	" :0907	38,20,49.4-78,53,37.8

Weather Information 08112004: 74 degrees, overcast.

Measured by R. Morgan Burrow Jr. for WVBE using Potomac Inst. FIM-41 s/n 331, cal. 16 Nov 1999.

# KILOMETERS FROM ANTENNA



**WTFX Bearing N 212.0 E**

**Radio Station WVBE  
Roanoke, Virginia  
610 kHz 2.5/10.0 kW DA-2-U**

**R. Morgan Burrow, P.E. & Assoc., P.C.  
Berkeley Springs, WV 25411**

**Exhibit 15-S-6  
May 2006**

# Exhibit 15-S-7 Field Intensity Measurement Data WTFX Bearing N 219.0 E

R. Morgan Burrow, P.E. & Associates, P.C.  
1841 Highland Ridge Rd., Berkeley Springs, WV 25411

WTFX 610 kHz 0.5 kW DA-2-U Winchester VA Jun 2004 Measurements. Stub Bearing N 219.0 E

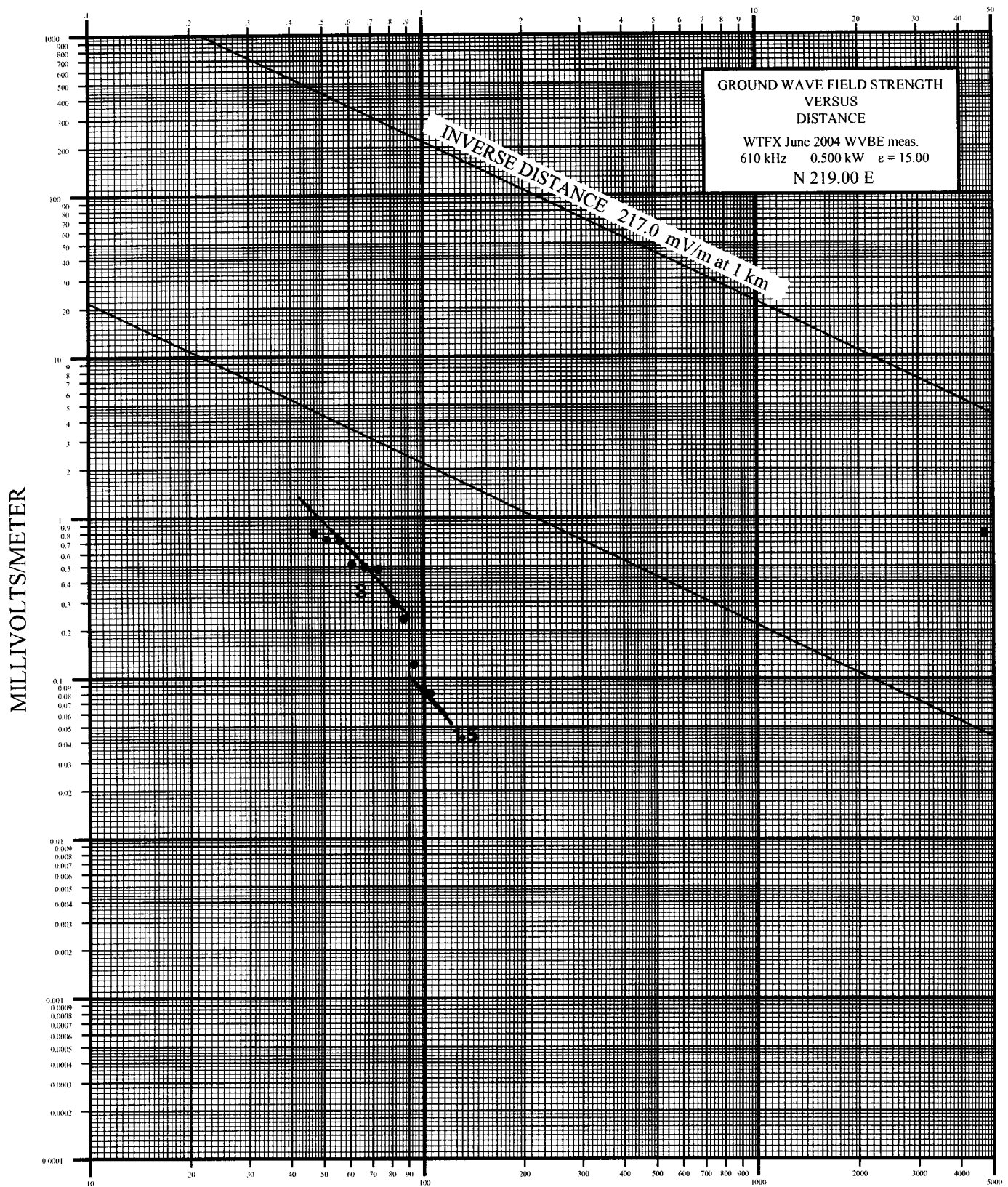
Pt No.	Distance (Miles)	(Km.)	DA-Day (mV/m)	Point Description	Meas. Date:Time Times Local (EDT)	GPS Coordinates (D,M,S - D,M,S)
1	29.2000	46.9928	0.800	VA Rt. 42 and Lambert Dr.	06072004:1332	38,52,14.8-78,33,52.3
2	31.7000	51.0162	0.730	Swover Creek Rd. near Stoney Creek Rd.	" :1341	38,50,32.0-78,35,38.1
3	34.8000	56.0052	0.720	Driveway 571 Bethel Church Rd.	" :1405	38,48,29.9-78,37,47.1
4	37.8000	60.8332	0.515	658 Pennywitt Rd. near barn	" :1416	38,46,31.3-78,39,59.1
5	41.3000	66.4659	0.495	Traffic sign near 96 Garber Rd.	" :1426	38,44,05.2-78,42,24.9
6	45.3000	72.9033	0.480	Driveway near garage 1902 Flat Rock Rd.	" :1438	38,41,23.2-78,45,13.6
7	51.1000	82.2375	0.290	Front of 15528 Strooptown Rd.	" :1451	38,37,29.7-78,49,13.6
8	54.0000	86.9046	0.235	Inters. Hisers La.and Trissers Rd.	" :1504	38,35,34.0-78,51,21.1
9	57.8000	93.0201	0.122	Green Hill Rd. near Glen Hollow Rd.	" :1520	38,32,58.5-78,53,59.4
10	61.4000	98.8137	0.086	Snapps Creek Rd near Singers Glen Rd, Fairview U.B. Church	" :1532	38,30,32.3-78,56,29.9
11	64.7000	104.1245	0.080	US 33 WB and Heatwole Rd. in lot	" :1547	38,28,16.4-78,58,46.9

Weather Information 06072004: 85 degrees, cloudy.

Measured by R. Morgan Burrow Jr. using Potomac Inst. FIM-41, s/n 331, cal. 16 Nov. 1999



# KILOMETERS FROM ANTENNA



**WTFX Bearing N 219.0 E**

**Radio Station WVBE  
Roanoke, Virginia  
610 kHz 2.5/10.0 kW DA-2-U**

**R. Morgan Burrow, P.E. & Assoc., P.C.  
Berkeley Springs, WV 25411**

**Exhibit 15-S-8**

**May 2006**

# Exhibit 15-S-9 Field Intensity Measurement Data WTFX Bearing N 125.0 E

R. Morgan Burrow, P.E. & Associates, P.C.  
1841 Highland Ridge Rd., Berkeley Springs, WV 25411

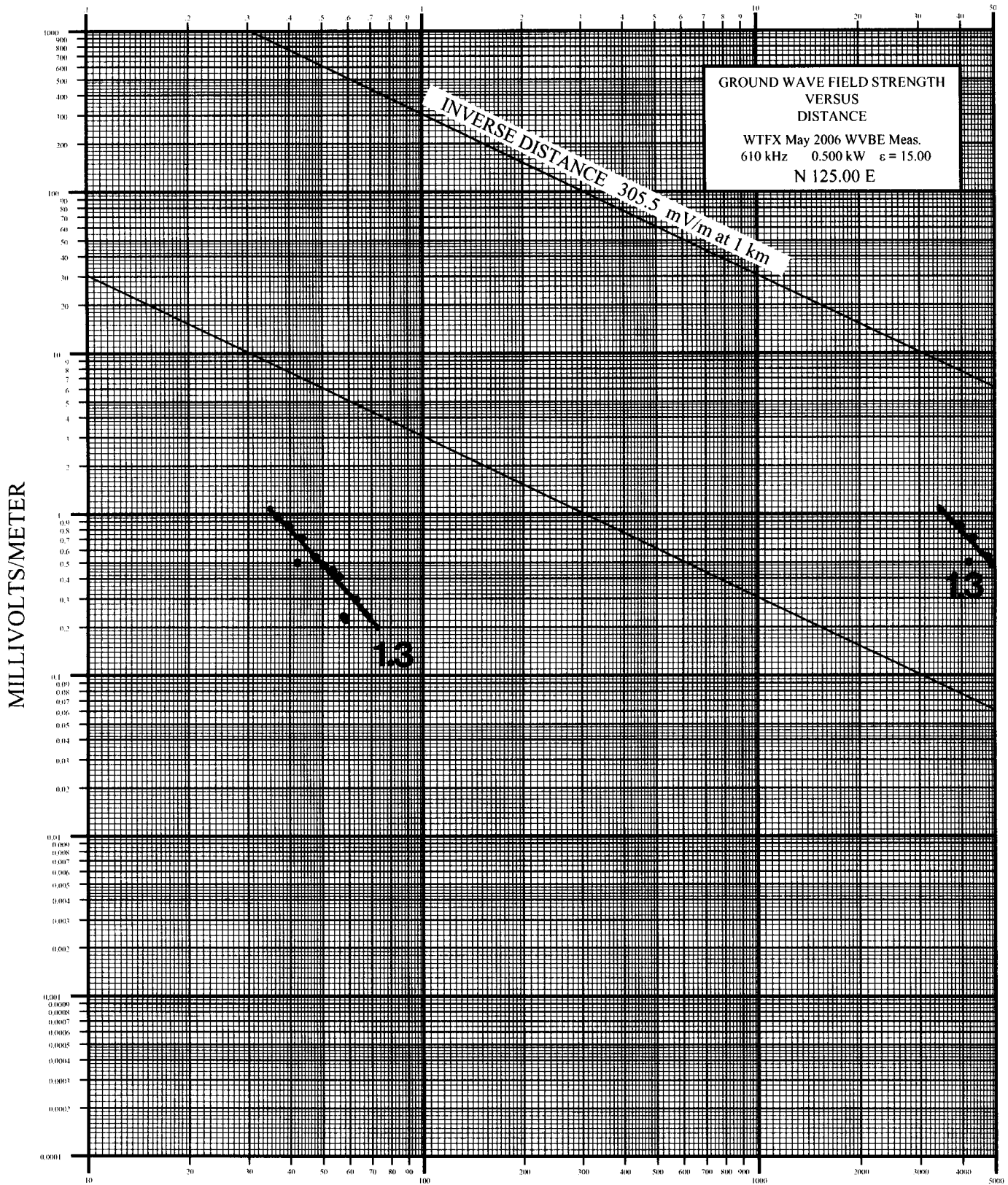
WTFX 610 kHz 0.5 kW DA-2-U Winchester, VA. May 2006 WVBE Meas. Bearing N 125.0

Pt No.	Distance (Miles)	(Km.)	DA-Day (mV/m)	Point Description	Meas. Date:Time Times Local (EDT)	GPS Coordinates (D,M,S - D,M,S)
1	24.6000	39.5899	0.840	App. 50 ft. in driveway 22637 Willisville Rd.	05262006:1241	38,59,36.3-77,50,46.6
2	26.1000	42.0039	0.500	Crenshaw Rd. near US 50 (wire)	" :1205	38,58,49.8-77,49,24.5
3	26.9000	43.2914	0.710	Atoka Rd. across from pole 4 (against wood fence)	" :1211	38,58,24.9-77,48,37.8
4	29.6000	47.6366	0.540	Zulla Rd. SB near large blue gate	" :1222	38,57,04.6-77,46,13.7
5	31.4000	50.5334	0.480	App. 0.1 mile N of 5552 The Plains Rd.	" :1142	38,56,07.4-77,44,33.0
6	32.8000	52.7865	0.440	GPS location on Logans Mill Rd. (between two gates)	" :1128	38,55,27.5-77,43,18.7
7	33.3000	53.5912	0.450	Across from driveway 3332 Landmark Rd.	" :1125	38,55,11.5-77,42,50.0
8	34.8000	56.0052	0.410	Bull Run Mountain Rd. near creek	" :1115	38,54,29.3-77,41,29.0
9	35.9000	57.7755	0.233	Across from 2710 Logmill Rd. in pull off	" :1031	38,53,56.8-77,40,23.6
10	36.4000	58.5801	0.223	GPS location on Mountain Rd. near dirt driveway	" :1016	38,53,37.4-77,39,59.1
11	39.1000	62.9253	0.295	Mailbox 4005 Greenville Dr.	" :1005	38,52,15.4-77,37,33.6

Weather Information 05262006: Cloudy, 73 degrees

Measured by R. Morgan Burrow Jr. using Potomac Inst. FIM-41, s/n 331.

# KILOMETERS FROM ANTENNA



**WTFX Bearing N 125.0 E**

**Radio Station WVBE  
Roanoke, Virginia  
610 kHz 2.5/10.0 kW DA-2-U**

**R. Morgan Burrow, P.E. & Assoc., P.C.  
Berkeley Springs, WV 25411**

**Exhibit 15-S-10  
May 2006**

# Exhibit 15-S-11

## Field Intensity Measurement Data

### WTFX Bearing N 140.0 E

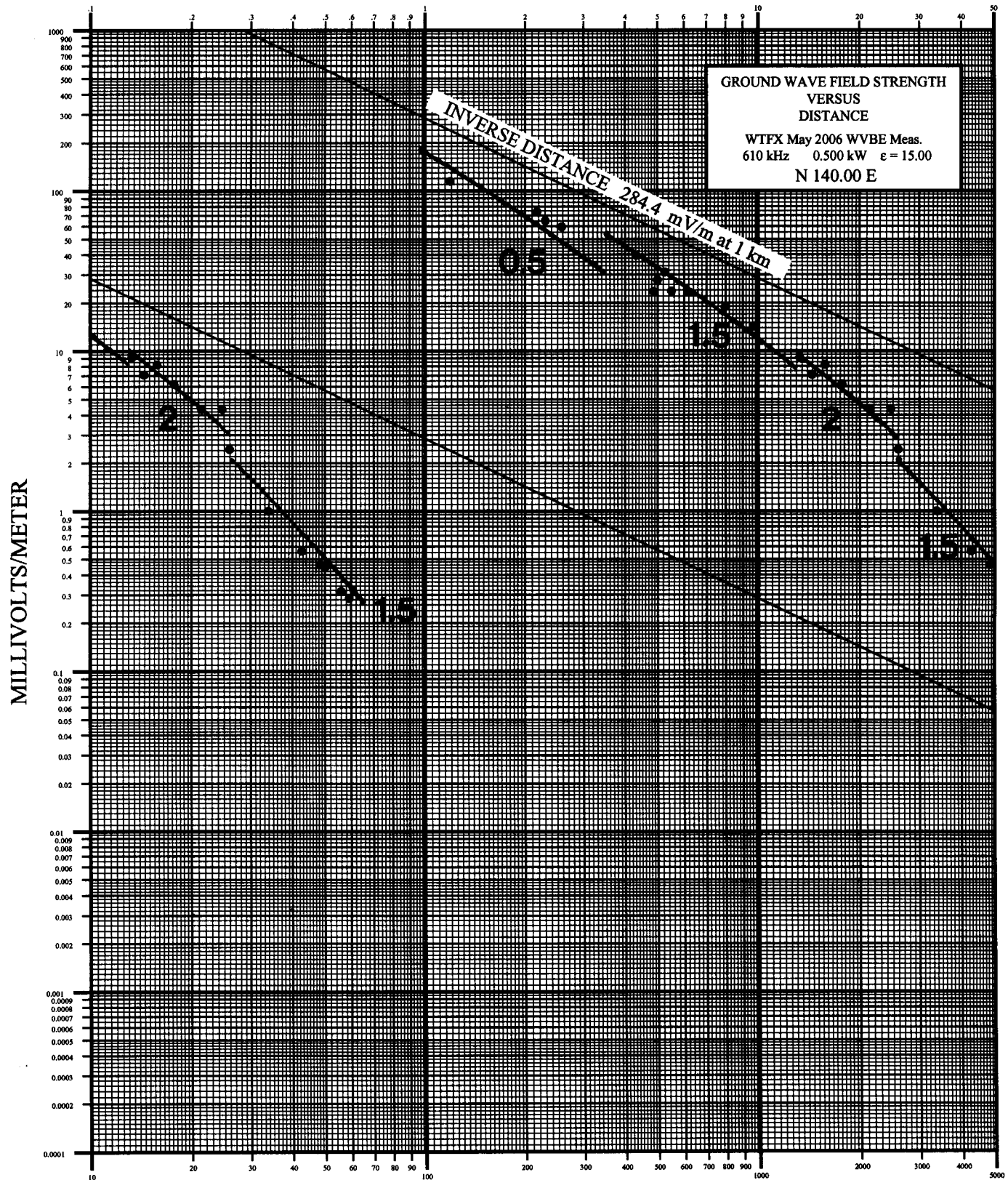
R. Morgan Burrow, P.E. & Associates, P.C.  
1841 Highland Ridge Rd., Berkeley Springs, WV 25411

WTFX 610 kHz 0.5 kW DA-2-U Winchester, VA May 2006 WVBE Measurements.

Pt No.	Distance (Miles)	Distance (Km.)	DA-Day (mV/m)	Point Description	Meas. Date:Time Times Local (EDT)	GPS Coordinates (D,M,S - D,M,S)
1	0.7400	1.1909	115.000	App. 100 ft. W of driveway 219 Round Hill Rd.	05252006:1248	39,11,22.6-78,12,42.4
2	1.3500	2.1726	74.000	VA Rt. 37 NB near bridge over RR track	" :1305	39,10,59.0-78,12,15.3
3	1.4300	2.3014	65.000	Mailbox 118 O'Keefe Drive	" :1319	39,10,54.6-78,12,13.4
4	1.6000	2.5750	59.500	RHS of 770 Merriman's Lane (end of sidewalk)	" :1315	39,10,48.7-78,12,05.4
5	2.6800	4.3130	39.500	Mailbox 1925 Harvest Drive	" :1337	39,10,06.1-78,11,17.9
6	3.0200	4.8602	23.500	Driveway 520 Hillman Drive	" :1356	39,09,52.6-78,11,02.5
7	3.1000	4.9890	27.700	Across from 2045 Rt. 11 (NB)	" :1354	39,09,51.4-78,10,56.2
8	3.2700	5.2626	31.000	Bank lot at Weems Dr. & Bickers St.	" :1402	39,09,42.1-78,10,52.0
9	3.4200	5.5040	23.600	Front of 2237 Wilson Blvd.	" :1405	39,09,36.2-78,10,46.4
10	3.8700	6.2282	23.200	Between Borders & Red Lobster on Pleasant Valley Av.	" :1410	39,09,18.0-78,10,26.7
11	4.9400	7.9502	18.800	Across from driveway 740 Front Royal Pk (US 522 SB)	" :1421	39,08,35.9-78,09,40.0
12	6.0100	9.6722	14.300	Dead end of Laurel Wood Dr. at pumping station	" :1458	39,07,51.4-78,08,56.7
13	8.2500	13.2771	9.100	Across from Montessori school, 1090 Parkins Mill Rd.	" :1450	39,06,23.4-78,07,18.1
14	8.9700	14.4358	7.100	US 50 WB just past bridge	" :1445	39,05,58.0-78,06,42.4
15	9.8000	15.7716	8.200	GPS location on Gun Barrel Road	" :1437	39,05,58.0-78,06,10.3
16	11.0000	17.7028	6.200	Across from driveway 13183 Lord Fairfax Hwy (US 340) SB	" :1514	39,04,33.4-78,05,22.1
17	13.3000	21.4043	4.350	Intersection of Berrys Ferry Rd. & CR 626	" :1525	39,03,00.8-78,03,41.6
18	15.3000	24.6230	4.350	GPS location on Swift Shoals Rd along creek (west of 2810)	" :1541	39,01,43.5-78,02,16.2
19	16.1000	25.9104	2.430	Pull off across from 7500 Howellsville Tpk. (E side Shen. R.)	" :1625	39,01,06.7-78,01,39.2
20	21.0000	33.7962	1.000	GPS location on Leeds Manor Rd. at gate	" :1559	38,57,52.0-77,58,11.3
21	26.5000	42.6476	0.560	Near driveway 9525 Maidstone Rd.	" :1715	38,54,12.0-77,54,16.2
22	30.0000	48.2803	0.460	Dead end of Salem Ave. in Marshall, VA	" :1838	38,51,52.5-77,51,40.5
23	31.2000	50.2115	0.450	Driveway 4566 Carters Run Rd. (CR 691)	" :1732	38,51,01.8-77,50,53.0
24	34.8000	56.0052	0.315	LHS of 5598 O'Bannon Rd.	" :1814	38,48,40.9-77,48,22.5
25	36.8000	59.2239	0.285	McRaes Rd. & Blantyre Rd.	" :1755	38,47,17.4-77,46,53.6

Weather Information 05252006: 68-75 degrees, cloudy, some intermittent rain  
Measured by R. Morgan Burrow Jr. using Potomac Inst. FIM-41, s/n 331.

# KILOMETERS FROM ANTENNA



**WTFX Bearing N 140.0 E**

**Radio Station WVBE**  
**Roanoke, Virginia**  
**610 kHz 2.5/10.0 kW DA-2-U**

**R. Morgan Burrow, P.E. & Assoc., P.C.**  
**Berkeley Springs, WV 25411**

**Exhibit 15-S-12**  
**May 2006**

# Exhibit 15-S-13 Field Intensity Measurement Data WTFX Bearing N 160.0 E

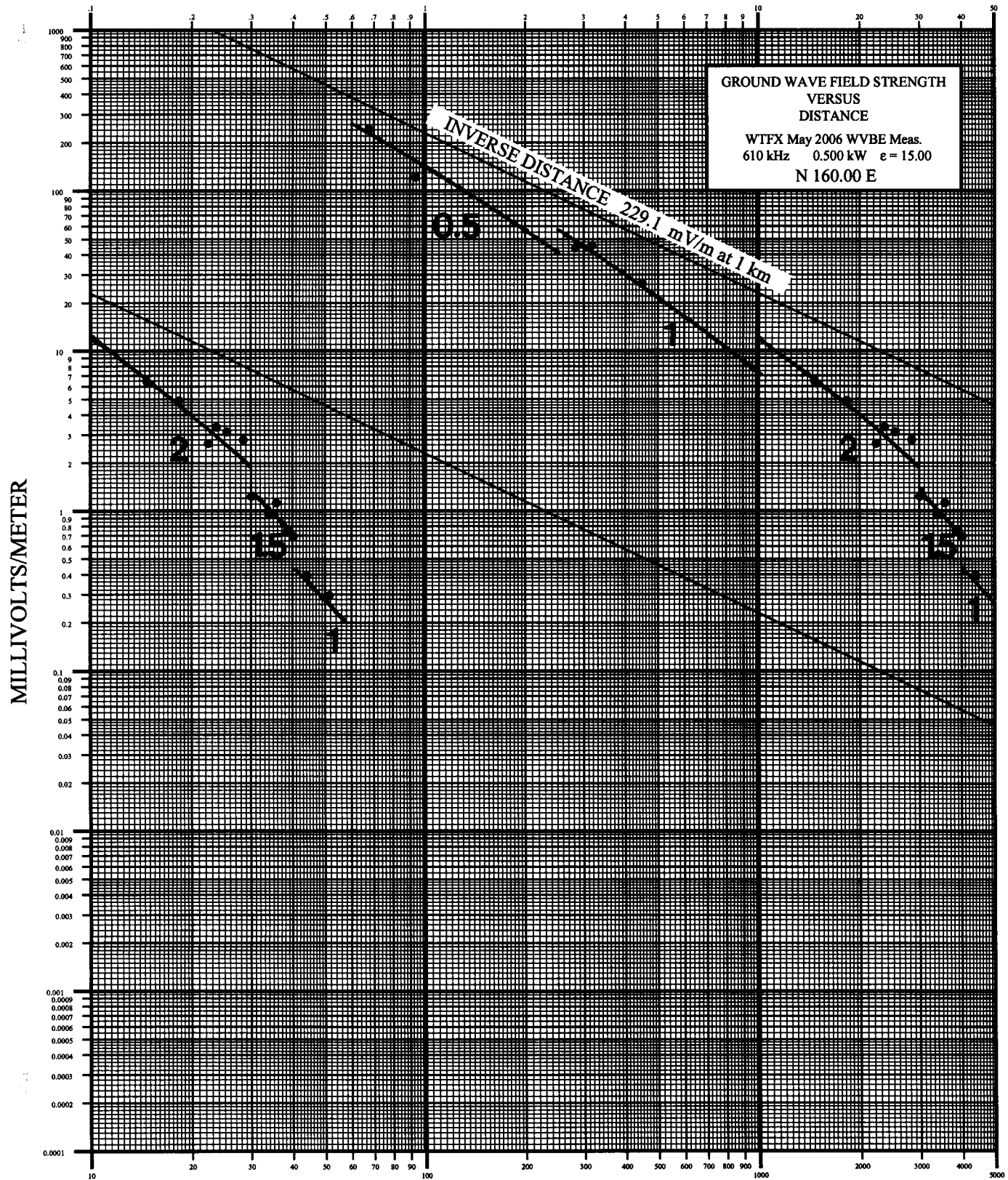
R. Morgan Burrow, P.E. & Associates, P.C.  
1841 Highland Ridge Rd., Berkeley Springs, WV 25411

WTFX 610 kHz 0.5 kW DA-2-U Winchester, VA. May 2006 WVBE Meas. Stub Bearing N 160.0 E

Pt No.	Distance (Miles)	(Km.)	DA-Day (mV/m)	Point Description	Meas. Date:Time Times Local (EDT)	GPS Coordinates (D,M,S - D,M,S)
1	0.4200	0.6759	243.000	US 50 EB across from Apple Tree Market	05252006:1233	39,11,32.3-78,13,04.0
2	0.5800	0.9334	122.000	Across from 368 Round Hill Rd. near ent. to quarry	" :1238	39,11,24.4-78,13,01.7
3	1.7600	2.8324	44.000	Merriman's Lane and Rock Harbor Dr.	" :1323	39,10,26.9-78,12,32.1
4	1.9700	3.1704	45.500	VA Rt. 37 NB near "Food Next Right" sign	" :1302	39,10,16.5-78,12,28.0
5	2.7900	4.4901	26.300	Cedar Creek Tr. across from pole 31	" :1341	39,09,36.5-78,12,09.0
6	9.1400	14.7094	6.450	Wrights Run La. near Fairfax Pk. (mailboxes)	05262006:1323	39,04,25.7-78,09,45.2
7	11.4000	18.3465	4.900	Driveway 4436-4437 US 522 NB	" :1333	39,02,34.8-78,08,49.6
8	13.9000	22.3699	2.650	App. 0.2 mile east of 2168 Ashby Station Rd.	" :1342	39,00,30.2-78,07,54.4
9	14.7000	23.6574	3.350	Inters. Bowling Green Rd. & Rockland Rd. (SE corner of 1445)	" :1348	38,59,53.2-78,07,37.0
10	15.8000	25.4276	3.120	Near driveway 561 Milldale Rd.	" :1356	38,58,56.5-78,07,10.3
11	17.7000	28.4854	2.780	Howellsville Rd. at driveway (near Shenandoah R.)	" :1411	38,57,21.6-78,06,32.1
12	18.7000	30.0947	1.230	GPS location on Oregon Hollow Rd.	" :1423	38,56,33.2-78,06,05.3
13	21.1000	33.9572	0.960	VA Rt. 55 EB in driveway behind pole C6-38	" :1438	38,54,36.6-78,05,10.4
14	22.2000	35.7274	1.120	App. 500 ft. east of 555 Grassland	" :1552	38,53,43.7-78,04,46.7
15	23.9000	38.4633	0.750	GPS location on Hardscrabble Rd. along creek	" :1520	38,52,21.2-78,04,08.1
16	25.0000	40.2336	0.690	Near gate to 4437 Fiery Run Rd. (Marriott Ranch - Gilley)	" :1511	38,51,26.6-78,03,43.5
17	27.4000	44.0960	0.390	Across from mailbox 305 Hume Rd. in driveway	" :1502	38,49,29.0-78,02,46.4
18	32.0000	51.4990	0.295	Driveway 12345-12369 Crest Hill Rd.	" :1625	38,45,43.1-78,01,04.0

Weather Information 05252006: 66 deg., cloudy & int. rain; 05262006: 79 deg., cloudy & int. rain  
Measured by R. Morgan Burrow Jr. using Potomac Inst. FIM-41, s/n 331.

# KILOMETERS FROM ANTENNA



**WTFX Bearing N 160.0 E**

**Radio Station WVBE  
Roanoke, Virginia  
610 kHz 2.5/10.0 kW DA-2-U**

**R. Morgan Burrow, P.E. & Assoc., P.C.  
Berkeley Springs, WV 25411**

**Exhibit 15-S-14  
May 2006**

# **Exhibit 15-S-15** **Field Intensity Measurement Data** **WTFX Bearing N 272.0 E**

R. Morgan Burrow, P.E. & Associates, P.C.  
1841 Highland Ridge Rd., Berkeley Springs, WV 25411

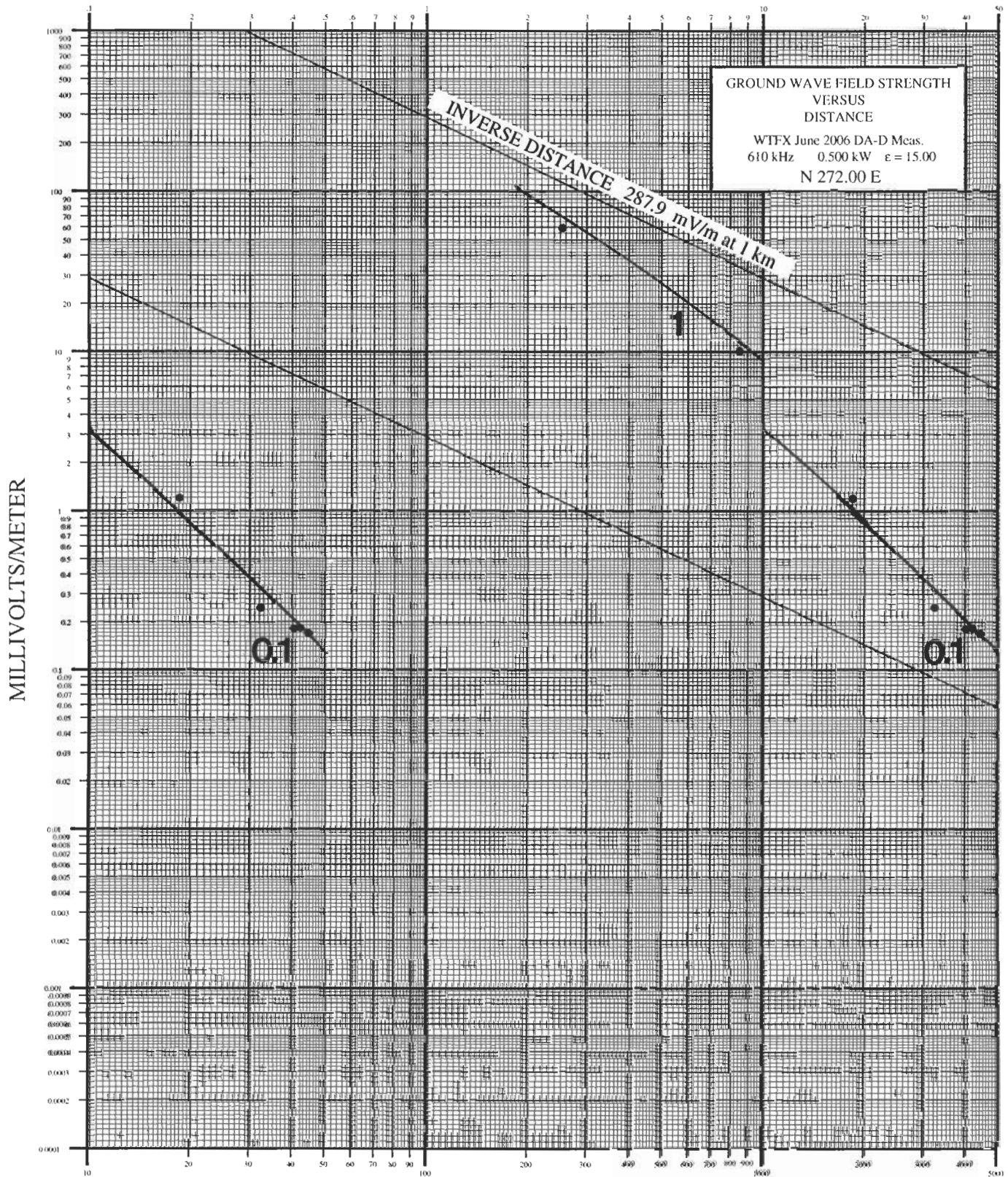
WTFX 610 kHz 0.5 kW Winchester, VA DA-Day June 2006 Measurements. Stub Bearing N 272.0 E

Pt No.	Distance (Miles)	(Km.)	DA-Day (mV/m)	Point Description	Meas. Date:Time Times Local (EDT)	GPS Coordinates (D,M,S - D,M,S)
1	1.5800	2.5428	59.000	Inters. Wardensville Grade and US 50 EB	06122006:1715	39,11,54.4-78,14,59.3
2	5.3000	8.5295	10.000	Inters. Back Mountain Rd. and Deer Creek Rd.	" :1734	39,12,04.9-78,19,08.6
3	11.5000	18.5075	1.190	WV 259 NB across from 2nd pole south of pizza house	" :1759	39,12,12.1-78,26,02.6
4	20.1000	32.3478	0.245	WV Rt. 29 just N of int. w/N. Texas Rd. (el. 1000 ft amsl)	06142006:1737	39,12,27.4-78,35,40.2
5	25.1000	40.3945	0.180	CR 7 app. 0.1 mi S of int. Short Mtn. Rd. (el. 1500 ft amsl)	" :1758	39,12,35.4-78,41,12.6
6	26.2000	42.1648	0.182	Ben Saville Rd. (CR 10/4), GPS location	" :1815	39,12,36.8-78,42,28.6
7	27.7000	44.5788	0.168	Grassy Lick Rd. (CR 10) acr. from trailer near HC79 box 78	" :1828	39,12,41.0-78,44,12.2

Weather Information 06122006: 69 degrees, PC; 06142006: 84 degrees, PC  
Measured by R. Morgan Burrow Jr. using Potomac Inst. FIM-41, s/n 331.



# KILOMETERS FROM ANTENNA



**WTFX Bearing N 272.0 E**

**Radio Station WVBE  
Roanoke, Virginia  
610 kHz 2.5/10.0 kW DA-2-U**

**R. Morgan Burrow, P.E. & Assoc., P.C.  
Berkeley Springs, WV 25411**

**Exhibit 15-S-16  
June 2006**

**Exhibit 15-S-17**  
**Summary of WTFX Measured Conductivity Data**

WTFX            610 kHz            N. Lat: 39 11 53    W. Lon: 78 13 13

All distances are in kilometers (US metric curves)  
 All distances are cumulative.

Bearing	Region		Region		Region		Region	
	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
-----	-----	-----	-----	-----	-----	-----	-----	-----
12.0	1.0	4.8	3.0	16.1	2.0	34.4		
37.0	0.5	1.9	1.5	6.4	3.0	32.8		
60.0	1.0	4.0	1.5	14.5	2.5	32.5		
65.5	1.0	6.4	2.5	32.3				
68.0	1.0	3.2	2.5	29.5				
93.0	1.0	4.0	2.0	28.3				
* 125.0	1.3	3.5	1.8	30.7	1.3	62.9		
* 140.0	0.5	3.5	1.5	13.0	2.0	26.0	1.5	59.2
* 160.0	0.5	2.5	1.0	10.0	2.0	30.0	1.5	40.0
	1.0	51.5						
* 180.0	1.3	8.0	3.0	32.7	1.3	100.0	1.8	151.9
* 192.0	0.1	3.0	1.5	15.0	2.0	40.0	1.0	70.0
	0.5	100.0	1.0	153.2				
* 212.0	2.5	50.0	1.5	111.2				
* 219.5	1.0	1.3	2.0	4.8	4.0	14.5	2.8	30.4
236.0	1.0	3.7	1.8	27.5				
255.0	2.0	1.6	1.5	16.1	0.8	32.8		
259.0	1.0	16.1	0.8	28.3				
* 272.0	1.0	10.0	0.1	44.6				
285.0	1.0	1.4	0.5	35.1				
318.5	1.0	4.8	1.3	25.7	0.5	32.5		
358.0	1.5	4.0	2.0	20.1	1.5	33.5		

Measurements from WTFX Proof of Performance BL-19850829AG

\* - New WVBE Measurements 2004 - 2006; new bearings or  
 extension of existing proof bearings.

# Exhibit 15-V-1 Summary of WWNR Measured Conductivity Data

WWNR            620 kHz            N. Lat: 37 45 18    W. Lon: 81 14 12

All distances are in kilometers (US metric curves)  
All distances are cumulative.

Bearing	Region		Region		Region		Region	
	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
-----	-----	-----	-----	-----	-----	-----	-----	-----
5.0	0.8	12.0	0.1	63.3				
25.0	0.5	12.0	0.1	59.1				
45.0	0.5	15.0	0.1	36.4				
65.0	0.8	12.5	0.5	36.0	0.1	79.0		
85.0	0.8	15.5	0.5	36.0	0.1	74.1		
105.0	0.8	3.0	0.5	20.0	0.1	79.3		
125.0	1.0	7.0	0.5	22.0	0.1	85.6		
145.0	1.0	2.1	0.5	27.0	0.1	76.0		
165.0	0.8	11.0	0.5	24.0	0.1	74.5		
185.0	1.0	1.1	0.8	12.5	0.5	30.0	0.1	73.2
205.0	0.1	82.9						
225.0	0.8	8.4	0.1	79.8				
245.0	0.5	11.0	0.1	65.9				
265.0	1.0	2.1	0.5	5.5	0.1	31.4		
285.0	0.1	36.4						
305.0	0.5	15.0	0.1	52.6				
325.0	1.0	1.4	0.5	7.4	0.1	58.7		
345.0	0.5	13.0	0.1	58.6				

Measurements from WWNR App. For CP (FCC file BMP-20011005AAK)