

Engineering Report

Exhibit 13 Figure 3 Page 1

Signal on Ground Report 2nd Adjacent Test

W264BT move to 104.3 MHz and Franklin Township, NJ

July 2016

The 60.5 dbu F(50,50) contour of second adjacent Class B stations WAXC and WWPR-FM, New York, NY encompass the 94 dbu F(50,10) proposed contour. Protection of this station is by the ratio method, as outlined in Exhibit 12.

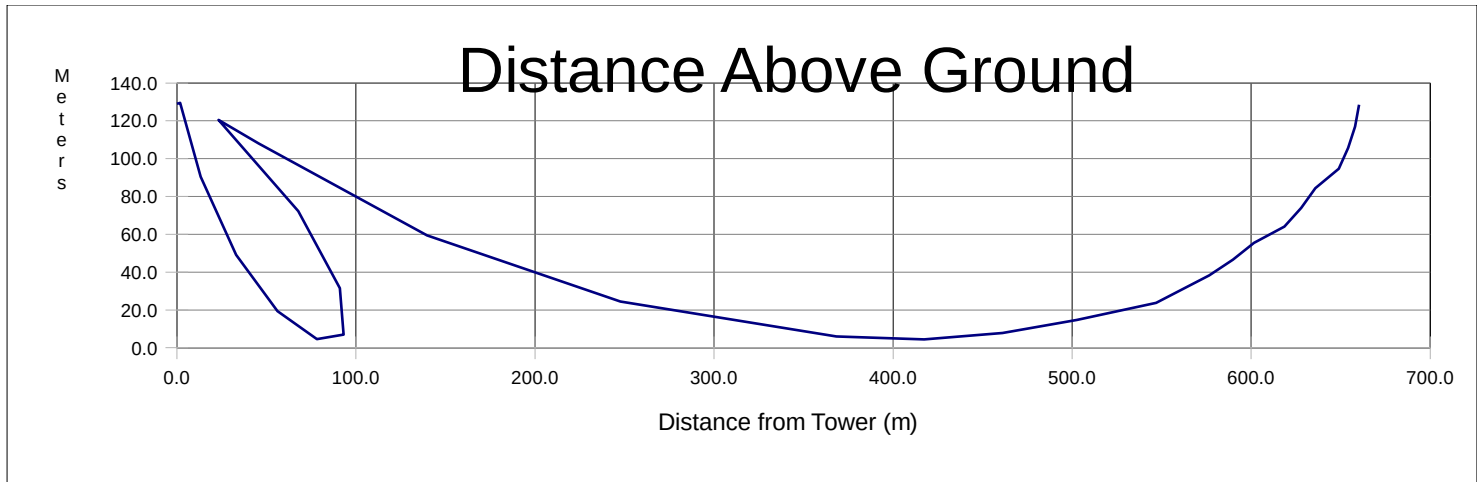
Study for center of Radiation 140 m AGL ERP 100 Watts
 Element Bays Spacing
 Antenna CA2-FMCP- 2 0.81 Wavelength

Distance above Ground Level of Interfering Contour

Depression Angle (Degrees)	Slant Distance To 100.5 dbμV (meters)	Horiz Distance To 100.5 dbμV (meters)	Relative Field	ERP Watts	100.5 dbμV Above Gnd (meters)
1	660.31	660.2	0.999	99.803	128.5
2	658.36	658.0	0.996	99.213	117.0
3	655.11	654.2	0.991	98.237	105.7
4	650.58	649.0	0.984	96.882	94.6
5	638.33	635.9	0.966	93.268	84.4
6	631.34	627.9	0.955	91.238	74.0
7	623.14	618.5	0.943	88.882	64.1
8	607.55	601.6	0.919	84.490	55.4
9	597.10	589.7	0.903	81.608	46.6
10	585.53	576.6	0.886	78.477	38.3
12	559.18	547.0	0.846	71.573	23.7
14	518.04	502.6	0.784	61.428	14.7
16	479.68	461.1	0.726	52.669	7.8
18	438.91	417.4	0.664	44.096	4.4
20	391.95	368.3	0.593	35.165	5.9
25	273.35	247.7	0.414	17.103	24.5
30	161.31	139.7	0.244	5.956	59.3
35	55.76	45.7	0.084	0.712	108.0
40	30.43	23.3	0.046	0.212	120.4
45	95.85	67.8	0.145	2.103	72.2
50	141.68	91.1	0.214	4.595	31.5
55	162.40	93.1	0.246	6.037	7.0
60	156.40	78.2	0.237	5.599	4.6
65	133.04	56.2	0.201	4.051	19.4
70	96.69	33.1	0.146	2.140	49.1
75	51.24	13.3	0.078	0.601	90.5
80	10.64	1.8	0.016	0.026	129.5
85	10.86	0.9	0.016	0.027	129.2
90	10.93	0.0	0.017	0.027	129.1

Min Height above Gnd

The 100.5 dbuV interfering signal is closest to the ground at 294 meters away from the tower. At the extent of the signal where it most closely approaches the ground, it remains at least 4.4 meters above the ground in the main beam of the antenna. In all other directions from the tower the nuisance contour is a greater distance above the ground. There are no multi-story buildings in the immediate vicinity of the tower.



Location of 100.5 dbu contour above ground, versus distance from tower.