

Vermont Public Radio
365 Troy Avenue Colchester, VT 05446

Montpelier_w231BA_Mod_VCFA

REFERENCE
44 15 17.0 N.
72 34 06.0 W.

CH# 231D - 94.1 MHz, Pwr= 0.25 kw, HAAT= -120.7 M, COR= 214 M
Average Protected F(50-50)= 7.09 km
Omni-directional

DISPLAY DATES
DATA 03-21-13
SEARCH 03-25-13

CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
231D Montpelier	w231BQ	LIC _C_ VT	20.0 200.0	0.06 BLFT20070409ACV	44 15 19.0 72 34 05.0	0.250 -109	23.8 226	7.1 Vermont Public Radio	-30.8*	-30.8*
231A Keeseville	R10401	DEL ____ NY	292.0 111.4	82.51	44 31 45.0 73 32 00.0	6.000 100	100.3 294	38.6 Nassau Broadcasting Iii, L	-24.9*<	20.2
231A Keeseville	AL0038	VAC ____ NY	292.0 111.4	82.51 RM10359b	44 31 45.0 73 32 00.0	6.000 100	100.3 294	38.6 Addison Broadcasting Co	-24.9*<	20.2
231A Morrisonville	R10401	ADD ____ NY	301.4 120.7	89.84	44 40 19.0 73 32 17.0	6.000 100	102.1 253	39.7 Nassau Broadcasting Iii, L	-19.3*<	26.4
231C3 Canaan	1501842	APP NCX VT	54.3 235.1	103.49 BNPH20120529AJJ	44 47 34.7 71 30 10.9	1.100 440	114.1 991	44.2 White Mountains Broadcasti	-17.7*<	35.5
231C3 Canaan	1496407	APP ____ VT	46.4 227.2	124.74 BSFH20120213ACH	45 01 20.0 71 25 05.0	25.000 100	127.0 608	50.0 White Mountains Broadcasti	-9.3*<	51.0
231C3 Canaan	AU9329005	VAC __N VT	46.4 227.2	124.74	45 01 20.0 71 25 05.0	25.000 100	127.0 608	50.0	-9.3*<	51.0
230A Morrisville	WLVB	LIC _CN VT	351.6 171.5	36.37 BLH19930907KB	44 34 42.0 72 38 09.0	5.400 37	26.8 409	18.2 Radio Vermont, Inc.	2.5	8.0
284C2 Montpelier	WNCS«	LIC DC_ VT	311.8 131.6	27.73 BLH19991001AAD	44 25 14.0 72 49 42.0	1.900 634	2.0 1061	12.5 Montpelier Broadcasting, I	14.5R	13.2M
231A Whitehall	WNYV	LIC _CN NY	219.5 38.9	111.62 BLH19900726KA	43 28 37.0 73 26 56.0	3.000 100	90.4 271	33.2 Pine Tree Broadcasting Com	14.1	54.7
234D Bolton	w234BD	LIC _C_ VT	293.0 112.8	31.35 BLFT20080123AEF	44 21 52.0 72 55 53.0	0.010 237	0.2 630	8.9 Vermont Public Radio	24.0	21.3
231D Littleton	w231BW	LIC _C_ NH	83.9 264.5	63.95 BLFT20090121ABQ	44 18 47.0 71 46 08.0	0.250 -9	23.8 365	7.1 Cupid Broadcasting, Llc	33.1	33.1
229C3 Addison	WIFY	LIC ZCX VT	267.1 86.5	67.17 BLH20050801BHI	44 13 15.0 73 24 37.0	21.000 108	2.9 229	32.2 Radio Broadcasting Service	57.2	33.9
231A Franklin	WFTN-FM	LIC ZC_ NH	138.1 318.7	116.22 BMLH20030611AAP	43 28 23.0 71 36 20.0	6.000 100	71.1 298	22.8 Northeast Communications C	38.1	69.7
230A Woodstock	WWOD	LIC ZEX VT	166.3 346.4	69.53 BLH20101115DQH	43 38 49.0 72 21 49.0	3.100 139	15.5 399	10.9 Great Eastern Radio, Llc	46.9	48.5
233D Burlington	w233BD	LIC _C_ VT	282.3 101.8	55.21 BLFT20080430ADV	44 21 29.2 73 14 49.7	0.027 43	0.4 128	4.0 Vermont Public Radio	47.8	50.1
229A Lunenburg	WOTX	LIC ZC_ VT	77.6 258.3	74.23 BLH20071231AAE	44 23 39.0 71 39 20.0	0.460 279	1.5 654	25.3 Alexxon, Llc	65.6	47.8
233A Rutland	WDVT	LIC ZCX VT	205.0 24.6	84.13 BLH20100217AAS	43 34 04.0 73 00 32.0	6.000 98	3.3 450	35.0 6 Johnson Road Licenses, I	73.7	48.0

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.
< = Contour Overlap

HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "*** IN ***" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "*** OUT ***" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing overlap interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "INT" and "PRO" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "IN" and "OUT" columns change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

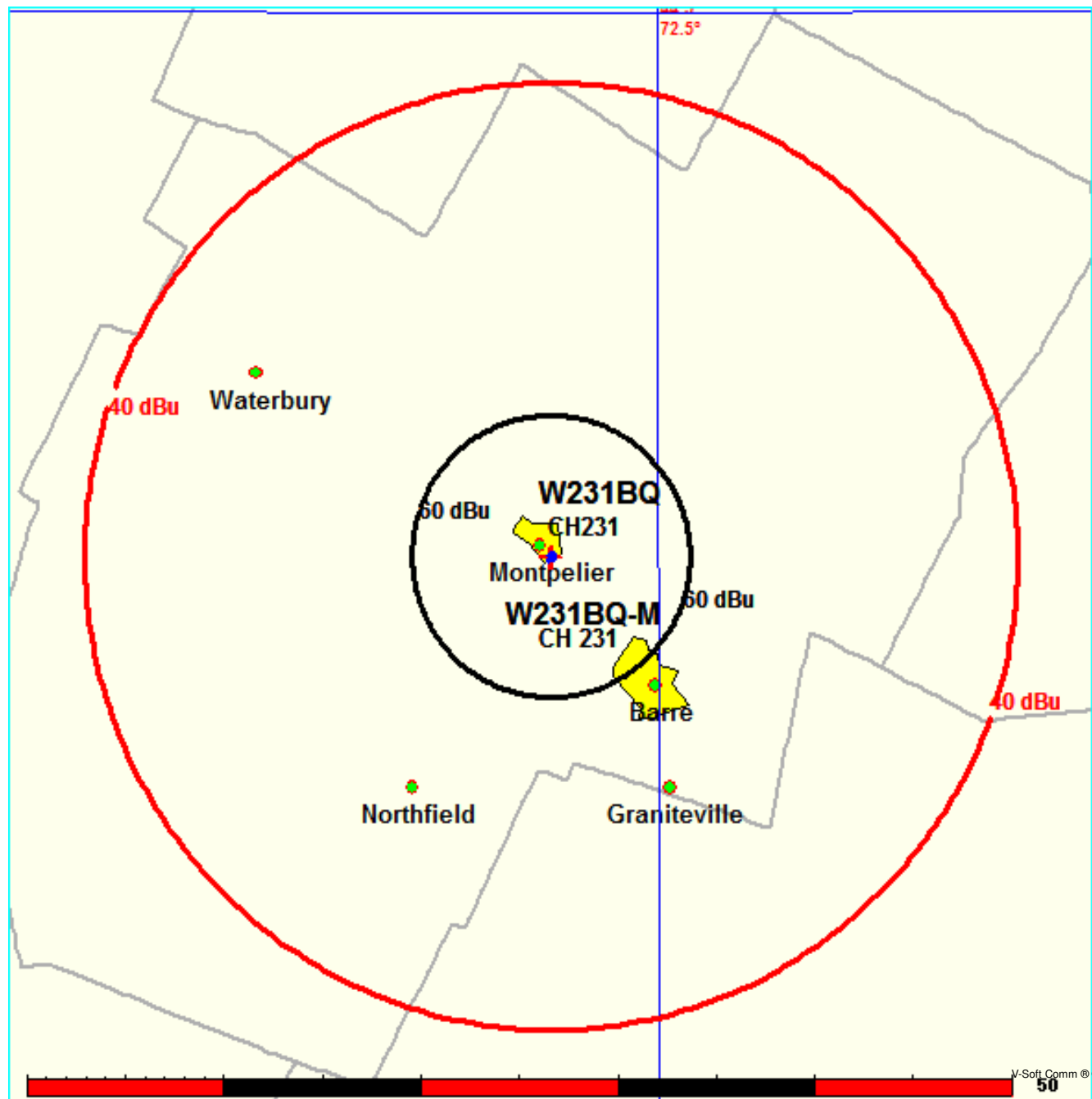
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates omni. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N".

Montpelier_W231BA_Mod_VCFA
Vermont Public Radio

FMCommander Single Allocation Study - 03-25-2013 - FCC NGDC 30 Sec
W231BQ-M's Overlaps (In= -30.78 km, Out= -30.78 km)

W231BQ-M CH 231 D
Lat= 44 15 17.0, Lng= 72 34 06.0
0.25 kW -120.7 M HAAT, 214 M COR
Prot.= 60 dBu, Intef.= 40 dBu

W231BQ CH 231 D BLFT20070409ACV
Lat= 44 15 19.0, Lng= 72 34 05.0
0.25 kW -108.6 M HAAT, 226 M COR
Prot.= 60 dBu, Intef.= 40 dBu



W231BQ-M

WLVB BLH19930907KB

Channel = 231D

Max ERP = 0.25 kW

RCAMSL = 214 M

N. Lat. 44 15 17.0

W. Lng. 72 34 06.0

Protected

60 dBu

Channel = 230A

Max ERP = 5.4 kW

RCAMSL = 409 M

N. Lat. 44 34 42.0

W. Lng. 72 38 09.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
292.0	000.2500	-0016.5	007.1	182.1	005.4000	0042.7	033.3	50.84	
293.0	000.2500	-0012.7	007.1	182.0	005.4000	0042.3	033.2	50.81	
294.0	000.2500	-0007.4	007.1	181.9	005.4000	0042.0	033.1	50.81	
295.0	000.2500	-0001.4	007.1	181.8	005.4000	0041.8	033.0	50.82	
296.0	000.2500	0003.9	007.1	181.7	005.4000	0041.7	032.9	50.84	
297.0	000.2500	0007.1	007.1	181.6	005.4000	0041.5	032.8	50.84	
298.0	000.2500	0008.3	007.1	181.6	005.4000	0041.0	032.7	50.80	
299.0	000.2500	0007.1	007.1	181.5	005.4000	0040.6	032.6	50.75	
300.0	000.2500	0001.7	007.1	181.4	005.4000	0040.1	032.4	50.71	
301.0	000.2500	-0007.8	007.1	181.2	005.4000	0039.7	032.3	50.65	
302.0	000.2500	-0021.2	007.1	181.1	005.4000	0039.2	032.2	50.60	
303.0	000.2500	-0037.2	007.1	181.0	005.4000	0038.7	032.1	50.53	
304.0	000.2500	-0053.5	007.1	180.9	005.4000	0038.1	032.0	50.47	
305.0	000.2500	-0067.6	007.1	180.8	005.4000	0037.6	031.9	50.40	
306.0	000.2500	-0078.4	007.1	180.7	005.4000	0037.0	031.8	50.32	
307.0	000.2500	-0087.1	007.1	180.5	005.4000	0036.5	031.7	50.24	
308.0	000.2500	-0095.0	007.1	180.4	005.4000	0035.9	031.6	50.16	
309.0	000.2500	-0102.1	007.1	180.2	005.4000	0035.3	031.5	50.07	
310.0	000.2500	-0106.9	007.1	180.1	005.4000	0034.7	031.4	49.97	
311.0	000.2500	-0109.2	007.1	180.0	005.4000	0034.0	031.3	49.88	
312.0	000.2500	-0110.6	007.1	179.8	005.4000	0033.4	031.2	49.77	
313.0	000.2500	-0113.6	007.1	179.7	005.4000	0032.7	031.1	49.67	
314.0	000.2500	-0118.7	007.1	179.5	005.4000	0032.1	031.1	49.56	
315.0	000.2500	-0125.7	007.1	179.3	005.4000	0031.4	031.0	49.44	
316.0	000.2500	-0133.4	007.1	179.2	005.4000	0030.7	030.9	49.32	
317.0	000.2500	-0141.9	007.1	179.0	005.4000	0030.9	030.8	49.40	
318.0	000.2500	-0151.2	007.1	178.8	005.4000	0031.3	030.7	49.52	
319.0	000.2500	-0160.4	007.1	178.6	005.4000	0031.7	030.6	49.65	
320.0	000.2500	-0169.2	007.1	178.5	005.4000	0032.1	030.6	49.79	
321.0	000.2500	-0176.8	007.1	178.3	005.4000	0032.5	030.5	49.91	
322.0	000.2500	-0183.2	007.1	178.1	005.4000	0032.8	030.4	50.01	
323.0	000.2500	-0187.8	007.1	177.9	005.4000	0033.0	030.3	50.09	
324.0	000.2500	-0191.5	007.1	177.7	005.4000	0033.2	030.3	50.17	
325.0	000.2500	-0195.8	007.1	177.5	005.4000	0033.3	030.2	50.24	
326.0	000.2500	-0200.7	007.1	177.3	005.4000	0033.5	030.1	50.32	
327.0	000.2500	-0206.7	007.1	177.1	005.4000	0033.8	030.1	50.40	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
328.0	000.2500	-0215.4	007.1	176.9	005.4000	0034.0	030.0	50.48
329.0	000.2500	-0225.0	007.1	176.7	005.4000	0033.9	029.9	50.48
330.0	000.2500	-0230.1	007.1	176.5	005.4000	0033.6	029.9	50.44
331.0	000.2500	-0228.7	007.1	176.3	005.4000	0033.3	029.8	50.41
332.0	000.2500	-0225.3	007.1	176.1	005.4000	0032.9	029.8	50.34
333.0	000.2500	-0222.6	007.1	175.8	005.4000	0032.6	029.7	50.31
334.0	000.2500	-0217.5	007.1	175.6	005.4000	0032.6	029.7	50.33
335.0	000.2500	-0209.6	007.1	175.4	005.4000	0032.6	029.6	50.35
336.0	000.2500	-0201.2	007.1	175.2	005.4000	0032.6	029.6	50.37
337.0	000.2500	-0193.5	007.1	175.0	005.4000	0032.6	029.6	50.39
338.0	000.2500	-0186.5	007.1	174.7	005.4000	0032.6	029.5	50.41
339.0	000.2500	-0179.6	007.1	174.5	005.4000	0032.7	029.5	50.45
340.0	000.2500	-0171.5	007.1	174.3	005.4000	0033.6	029.5	50.67
341.0	000.2500	-0161.9	007.1	174.0	005.4000	0035.2	029.4	51.03
342.0	000.2500	-0153.1	007.1	173.8	005.4000	0036.9	029.4	51.44
343.0	000.2500	-0146.0	007.1	173.6	005.4000	0038.6	029.4	51.82
344.0	000.2500	-0139.9	007.1	173.3	005.4000	0040.0	029.4	52.13
345.0	000.2500	-0133.2	007.1	173.1	005.4000	0041.0	029.3	52.34
346.0	000.2500	-0124.1	007.1	172.8	005.4000	0041.6	029.3	52.48
347.0	000.2500	-0112.9	007.1	172.6	005.4000	0041.9	029.3	52.54
348.0	000.2500	-0103.4	007.1	172.4	005.4000	0042.0	029.3	52.57
349.0	000.2500	-0099.1	007.1	172.1	005.4000	0042.0	029.3	52.58
350.0	000.2500	-0098.3	007.1	171.9	005.4000	0042.1	029.3	52.61
351.0	000.2500	-0100.0	007.1	171.6	005.4000	0042.0	029.3	52.59
352.0	000.2500	-0097.8	007.1	171.4	005.4000	0041.5	029.3	52.47
353.0	000.2500	-0090.2	007.1	171.2	005.4000	0040.4	029.3	52.25
354.0	000.2500	-0081.7	007.1	170.9	005.4000	0038.9	029.3	51.92
355.0	000.2500	-0074.1	007.1	170.7	005.4000	0037.0	029.3	51.51
356.0	000.2500	-0071.2	007.1	170.4	005.4000	0034.9	029.3	51.03
357.0	000.2500	-0071.2	007.1	170.2	005.4000	0032.5	029.3	50.50
358.0	000.2500	-0069.0	007.1	169.9	005.4000	0030.0	029.3	49.90
359.0	000.2500	-0064.1	007.1	169.7	005.4000	0027.2	029.4	49.89
000.0	000.2500	-0059.0	007.1	169.5	005.4000	0024.3	029.4	49.88
001.0	000.2500	-0055.2	007.1	169.2	005.4000	0021.6	029.4	49.87
002.0	000.2500	-0056.4	007.1	169.0	005.4000	0019.2	029.4	49.86
003.0	000.2500	-0057.9	007.1	168.8	005.4000	0016.9	029.5	49.84
004.0	000.2500	-0067.2	007.1	168.5	005.4000	0014.8	029.5	49.83
005.0	000.2500	-0080.3	007.1	168.3	005.4000	0012.8	029.5	49.81
006.0	000.2500	-0092.3	007.1	168.1	005.4000	0010.7	029.6	49.79
007.0	000.2500	-0104.4	007.1	167.8	005.4000	0008.7	029.6	49.77
008.0	000.2500	-0116.6	007.1	167.6	005.4000	0006.6	029.6	49.75
009.0	000.2500	-0131.3	007.1	167.4	005.4000	0004.5	029.7	49.73
010.0	000.2500	-0150.2	007.1	167.2	005.4000	0002.5	029.7	49.70
011.0	000.2500	-0168.6	007.1	167.0	005.4000	0000.7	029.8	49.68
012.0	000.2500	-0181.9	007.1	166.7	005.4000	-0000.6	029.8	49.65
013.0	000.2500	-0190.7	007.1	166.5	005.4000	-0001.7	029.9	49.63
014.0	000.2500	-0198.6	007.1	166.3	005.4000	-0002.3	029.9	49.60
015.0	000.2500	-0205.3	007.1	166.1	005.4000	-0002.6	030.0	49.57
016.0	000.2500	-0208.4	007.1	165.9	005.4000	-0002.6	030.1	49.54
017.0	000.2500	-0207.2	007.1	165.7	005.4000	-0002.3	030.1	49.51
018.0	000.2500	-0201.1	007.1	165.5	005.4000	-0001.8	030.2	49.48

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
019.0	000.2500	-0191.9	007.1		165.3	005.4000	-0001.1	030.3	49.45
020.0	000.2500	-0182.2	007.1		165.1	005.4000	-0000.3	030.3	49.42
021.0	000.2500	-0173.6	007.1		164.9	005.4000	0000.6	030.4	49.38
022.0	000.2500	-0167.5	007.1		164.7	005.4000	0001.6	030.5	49.35
023.0	000.2500	-0163.5	007.1		164.6	005.4000	0002.4	030.5	49.31
024.0	000.2500	-0159.9	007.1		164.4	005.4000	0003.3	030.6	49.28
025.0	000.2500	-0156.2	007.1		164.2	005.4000	0004.1	030.7	49.24
026.0	000.2500	-0152.7	007.1		164.0	005.4000	0004.9	030.8	49.20
027.0	000.2500	-0148.2	007.1		163.9	005.4000	0005.8	030.9	49.17
028.0	000.2500	-0141.5	007.1		163.7	005.4000	0006.6	031.0	49.13
029.0	000.2500	-0133.6	007.1		163.5	005.4000	0007.6	031.0	49.09
030.0	000.2500	-0127.5	007.1		163.4	005.4000	0008.5	031.1	49.05
031.0	000.2500	-0124.8	007.1		163.2	005.4000	0009.6	031.2	49.01
032.0	000.2500	-0125.4	007.1		163.1	005.4000	0010.6	031.3	48.97
033.0	000.2500	-0128.3	007.1		162.9	005.4000	0011.7	031.4	48.93
034.0	000.2500	-0131.0	007.1		162.8	005.4000	0012.8	031.5	48.89
035.0	000.2500	-0131.7	007.1		162.6	005.4000	0014.0	031.6	48.85
036.0	000.2500	-0129.6	007.1		162.5	005.4000	0015.2	031.7	48.81
037.0	000.2500	-0124.3	007.1		162.4	005.4000	0016.4	031.8	48.77
038.0	000.2500	-0117.2	007.1		162.2	005.4000	0017.7	031.9	48.73
039.0	000.2500	-0110.1	007.1		162.1	005.4000	0018.9	032.0	48.69
040.0	000.2500	-0105.0	007.1		162.0	005.4000	0020.1	032.1	48.64
041.0	000.2500	-0102.0	007.1		161.9	005.4000	0021.3	032.2	48.60
042.0	000.2500	-0100.6	007.1		161.8	005.4000	0022.4	032.3	48.56
043.0	000.2500	-0100.7	007.1		161.7	005.4000	0023.5	032.4	48.52
044.0	000.2500	-0101.3	007.1		161.6	005.4000	0024.5	032.5	48.48
045.0	000.2500	-0101.5	007.1		161.5	005.4000	0025.4	032.6	48.44
046.0	000.2500	-0101.2	007.1		161.4	005.4000	0026.2	032.8	48.39
047.0	000.2500	-0100.9	007.1		161.3	005.4000	0027.0	032.9	48.35
048.0	000.2500	-0101.1	007.1		161.2	005.4000	0027.7	033.0	48.31
049.0	000.2500	-0101.8	007.1		161.1	005.4000	0028.2	033.1	48.26
050.0	000.2500	-0102.3	007.1		161.0	005.4000	0028.7	033.2	48.22
051.0	000.2500	-0102.6	007.1		161.0	005.4000	0029.1	033.3	48.18

03-25-2013

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WLVB BLH19930907KB

W231BQ-M

Channel = 230A

Max ERP = 5.4 kW

RCAMSL = 409 M

N. Lat. 44 34 42.0

W. Lng. 72 38 09.0

Protected

60 dBu

Channel = 231D

Max ERP = 0.25 kW

RCAMSL = 214 M

N. Lat. 44 15 17.0

W. Lng. 72 34 06.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
112.0	005.4000	0086.1	025.8	035.0	000.2500	-0131.7	032.2	35.28	
113.0	005.4000	0081.2	025.0	033.9	000.2500	-0130.7	031.6	35.52	
114.0	005.4000	0076.4	024.4	032.8	000.2500	-0127.5	031.0	35.75	
115.0	005.4000	0071.6	023.7	031.6	000.2500	-0124.8	030.5	35.98	
116.0	005.4000	0067.3	023.0	030.5	000.2500	-0125.8	030.0	36.20	
117.0	005.4000	0063.6	022.5	029.4	000.2500	-0130.7	029.6	36.42	
118.0	005.4000	0060.0	021.9	028.4	000.2500	-0138.3	029.2	36.62	
119.0	005.4000	0056.8	021.4	027.3	000.2500	-0146.2	028.8	36.82	
120.0	005.4000	0053.7	020.8	026.2	000.2500	-0152.1	028.5	37.00	
121.0	005.4000	0051.3	020.3	025.2	000.2500	-0155.7	028.2	37.18	
122.0	005.4000	0049.3	019.9	024.2	000.2500	-0159.1	027.9	37.34	
123.0	005.4000	0046.6	019.3	022.9	000.2500	-0163.7	027.6	37.49	
124.0	005.4000	0043.3	018.6	021.3	000.2500	-0171.7	027.5	37.59	
125.0	005.4000	0039.6	017.7	019.3	000.2500	-0188.9	027.4	37.64	
126.0	005.4000	0036.9	017.0	017.8	000.2500	-0202.6	027.3	37.70	
127.0	005.4000	0034.8	016.5	016.6	000.2500	-0208.2	027.2	37.76	
128.0	005.4000	0032.9	016.0	015.4	000.2500	-0207.2	027.1	37.81	
129.0	005.4000	0030.8	015.5	014.2	000.2500	-0199.9	027.1	37.84	
130.0	005.4000	0028.3	015.3	013.6	000.2500	-0195.4	026.9	37.94	
131.0	005.4000	0026.4	015.3	013.3	000.2500	-0193.4	026.7	38.08	
132.0	005.4000	0025.8	015.3	013.1	000.2500	-0191.2	026.4	38.23	
133.0	005.4000	0026.6	015.3	012.8	000.2500	-0188.8	026.2	38.37	
134.0	005.4000	0028.6	015.3	012.5	000.2500	-0186.3	026.0	38.52	
135.0	005.4000	0032.3	015.9	013.2	000.2500	-0192.4	025.4	38.86	
136.0	005.4000	0037.7	017.2	015.5	000.2500	-0207.5	024.5	39.50	
137.0	005.4000	0043.2	018.5	017.9	000.2500	-0202.2	023.6	40.14	
138.0	005.4000	0048.3	019.7	020.0	000.2500	-0182.4	022.7	40.75	
139.0	005.4000	0053.0	020.7	021.8	000.2500	-0168.8	021.9	41.32	
140.0	005.4000	0056.3	021.3	022.8	000.2500	-0164.2	021.3	41.79	
141.0	005.4000	0057.7	021.5	022.9	000.2500	-0163.8	020.9	42.13	
142.0	005.4000	0057.1	021.4	022.2	000.2500	-0166.8	020.6	42.35	
143.0	005.4000	0054.4	020.9	020.5	000.2500	-0178.0	020.6	42.39	
144.0	005.4000	0050.8	020.2	018.3	000.2500	-0198.8	020.7	42.32	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
145.0	005.4000	0048.4	019.7	016.6	000.2500	-0208.2	020.7	42.29
146.0	005.4000	0047.6	019.5	015.6	000.2500	-0207.7	020.5	42.41
147.0	005.4000	0047.6	019.5	015.0	000.2500	-0205.2	020.3	42.62
148.0	005.4000	0048.0	019.6	014.5	000.2500	-0202.1	020.0	42.86
149.0	005.4000	0048.5	019.7	014.0	000.2500	-0198.8	019.6	43.12
150.0	005.4000	0048.6	019.8	013.3	000.2500	-0193.5	019.4	43.32
151.0	005.4000	0049.4	019.9	012.9	000.2500	-0190.1	019.0	43.61
152.0	005.4000	0050.5	020.2	012.6	000.2500	-0187.5	018.6	43.95
153.0	005.4000	0049.7	020.0	011.5	000.2500	-0175.3	018.5	44.02
154.0	005.4000	0045.9	019.2	009.1	000.2500	-0132.7	019.0	43.64
155.0	005.4000	0040.8	018.0	006.4	000.2500	-0096.5	019.8	42.97
156.0	005.4000	0037.5	017.2	004.5	000.2500	-0073.3	020.4	42.55
157.0	005.4000	0037.3	017.1	003.7	000.2500	-0063.4	020.3	42.62
158.0	005.4000	0036.8	017.0	002.8	000.2500	-0057.2	020.2	42.63
159.0	005.4000	0034.8	016.5	001.4	000.2500	-0055.7	020.6	42.36
160.0	005.4000	0032.9	016.0	000.3	000.2500	-0057.7	020.9	42.10
161.0	005.4000	0028.8	015.3	358.9	000.2500	-0064.3	021.5	41.66
162.0	005.4000	0020.1	015.3	358.3	000.2500	-0067.7	021.4	41.72
163.0	005.4000	0011.0	015.3	357.6	000.2500	-0070.3	021.3	41.78
164.0	005.4000	0005.0	015.3	356.9	000.2500	-0071.2	021.3	41.83
165.0	005.4000	0000.3	015.3	356.2	000.2500	-0071.0	021.2	41.87
166.0	005.4000	-0002.7	015.3	355.5	000.2500	-0072.2	021.2	41.91
167.0	005.4000	0001.1	015.3	354.8	000.2500	-0075.3	021.1	41.94
168.0	005.4000	0010.1	015.3	354.0	000.2500	-0081.3	021.1	41.96
169.0	005.4000	0019.2	015.3	353.3	000.2500	-0087.5	021.1	41.98
170.0	005.4000	0030.6	015.4	352.6	000.2500	-0093.3	020.9	42.09
171.0	005.4000	0039.5	017.7	352.0	000.2500	-0097.9	018.7	43.86
172.0	005.4000	0042.1	018.3	351.0	000.2500	-0100.0	018.1	44.38
173.0	005.4000	0041.2	018.1	350.0	000.2500	-0098.4	018.3	44.20
174.0	005.4000	0035.3	016.6	349.4	000.2500	-0098.5	019.8	43.01
175.0	005.4000	0032.6	015.9	348.8	000.2500	-0099.6	020.5	42.44
176.0	005.4000	0032.8	016.0	348.0	000.2500	-0103.2	020.5	42.45
177.0	005.4000	0033.9	016.3	347.1	000.2500	-0111.5	020.2	42.64
178.0	005.4000	0032.9	016.0	346.5	000.2500	-0118.7	020.6	42.39
179.0	005.4000	0030.9	015.5	346.0	000.2500	-0123.7	021.1	41.97
180.0	005.4000	0034.2	016.3	344.7	000.2500	-0135.2	020.4	42.55
181.0	005.4000	0038.6	017.4	343.0	000.2500	-0145.8	019.4	43.32
182.0	005.4000	0042.3	018.3	341.2	000.2500	-0159.7	018.6	43.93
183.0	005.4000	0049.2	019.9	338.3	000.2500	-0184.1	017.3	45.00
184.0	005.4000	0055.6	021.2	335.3	000.2500	-0206.9	016.4	45.84
185.0	005.4000	0065.4	022.7	331.2	000.2500	-0228.0	015.2	46.81
186.0	005.4000	0071.5	023.6	327.9	000.2500	-0214.2	014.7	47.31
187.0	005.4000	0078.1	024.6	324.1	000.2500	-0192.0	014.3	47.87
188.0	005.4000	0083.1	025.3	320.8	000.2500	-0175.4	014.0	48.12
189.0	005.4000	0089.5	026.2	316.8	000.2500	-0140.3	013.8	48.41
190.0	005.4000	0096.0	027.1	312.7	000.2500	-0112.2	013.7	48.59
191.0	005.4000	0100.6	027.7	309.5	000.2500	-0105.0	013.8	48.45
192.0	005.4000	0104.1	028.2	307.0	000.2500	-0087.1	014.0	48.15
193.0	005.4000	0106.7	028.5	305.0	000.2500	-0067.3	014.3	47.76
194.0	005.4000	0110.2	028.9	302.8	000.2500	-0033.1	014.7	47.37
195.0	005.4000	0113.8	029.3	300.6	000.2500	-0003.8	015.0	46.97

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
196.0	005.4000	0117.3	029.7	298.8	000.2500	0007.7	015.4	46.62
197.0	005.4000	0120.3	030.0	297.3	000.2500	0007.7	015.9	46.24
198.0	005.4000	0122.6	030.2	296.2	000.2500	0004.5	016.4	45.83
199.0	005.4000	0123.6	030.3	295.6	000.2500	0001.9	016.9	45.40
200.0	005.4000	0121.5	030.1	296.1	000.2500	0004.3	017.4	44.94
201.0	005.4000	0115.3	029.5	298.0	000.2500	0008.3	018.0	44.45
202.0	005.4000	0106.7	028.5	300.9	000.2500	-0006.7	018.6	43.92
203.0	005.4000	0098.7	027.5	303.7	000.2500	-0048.9	019.3	43.39
204.0	005.4000	0093.2	026.7	305.5	000.2500	-0073.8	019.9	42.91
205.0	005.4000	0091.1	026.4	306.1	000.2500	-0079.1	020.4	42.50
206.0	005.4000	0091.5	026.5	305.7	000.2500	-0075.4	020.9	42.16
207.0	005.4000	0092.4	026.6	305.2	000.2500	-0070.0	021.3	41.82
208.0	005.4000	0092.0	026.6	305.2	000.2500	-0069.4	021.8	41.46
209.0	005.4000	0089.6	026.2	305.9	000.2500	-0077.0	022.3	41.09
210.0	005.4000	0083.8	025.4	307.8	000.2500	-0093.5	022.8	40.68
211.0	005.4000	0073.4	023.9	311.3	000.2500	-0109.6	023.5	40.21
212.0	005.4000	0061.0	022.1	315.5	000.2500	-0129.1	024.2	39.66
213.0	005.4000	0051.1	020.3	319.3	000.2500	-0162.9	025.1	39.11
214.0	005.4000	0043.7	018.7	322.5	000.2500	-0185.5	025.9	38.58
215.0	005.4000	0037.9	017.2	325.2	000.2500	-0196.6	026.6	38.10
216.0	005.4000	0033.6	016.2	327.1	000.2500	-0207.3	027.3	37.70
217.0	005.4000	0031.1	015.6	328.1	000.2500	-0216.2	027.8	37.42
218.0	005.4000	0028.7	015.3	328.4	000.2500	-0219.1	028.1	37.23
219.0	005.4000	0024.7	015.3	328.2	000.2500	-0217.2	028.4	37.09
220.0	005.4000	0019.5	015.3	328.0	000.2500	-0215.6	028.6	36.95
221.0	005.4000	0014.0	015.3	327.9	000.2500	-0214.1	028.9	36.81
222.0	005.4000	0007.8	015.3	327.7	000.2500	-0212.6	029.1	36.68
223.0	005.4000	0000.8	015.3	327.6	000.2500	-0211.3	029.4	36.54
224.0	005.4000	-0007.4	015.3	327.5	000.2500	-0210.3	029.6	36.41
225.0	005.4000	-0015.5	015.3	327.3	000.2500	-0209.4	029.9	36.28
226.0	005.4000	-0023.6	015.3	327.2	000.2500	-0208.6	030.2	36.15
227.0	005.4000	-0031.6	015.3	327.2	000.2500	-0207.9	030.4	36.03
228.0	005.4000	-0039.2	015.3	327.1	000.2500	-0207.3	030.7	35.91
229.0	005.4000	-0044.9	015.3	327.0	000.2500	-0206.7	030.9	35.79
230.0	005.4000	-0049.0	015.3	326.9	000.2500	-0206.2	031.2	35.67
231.0	005.4000	-0052.8	015.3	326.9	000.2500	-0205.9	031.5	35.56