

Exhibit 13 - FM Channel Study

WRVM, Inc.

W225AV Fill-In Xltr for WHRY 70 ft

WRVM, Inc.

REFERENCE
46 27 54.6 N.
90 08 18.2 W.

CH# 225D - 92.9 MHz, Pwr= 0.17 kW, HAAT= 50.6 M, COR= 483.1 M
Average Protected F(50-50)= 8.41 km
Omni-directional

DISPLAY DATES
DATA 07-03-13
SEARCH 07-23-13

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
225D Ironwood	W225AV	LIC _V_ MI	0.0 0.0	0.00 BLFT20130529AKM	46 27 54.6 90 08 18.2	0.225 471	42.8	12.5 Wrvm, Inc.	-55.1*	-54.6*
225C1 Duluth	WSCD-FM	LIC _C_ MN	284.1 102.7	155.35 BMLED19940823KA	46 47 20.0 92 07 04.0	70.000 185	164.4 492	69.7 Minnesota Public Radio	-21.4*	46.1
227C1 Ashland	WBSZ	LIC NCN WI	282.5 102.0	56.92 BLH19940805KB	46 34 25.0 90 51 56.0	71.000 75	5.0 296	45.1 Heartland Comm. License, L	39.7	11.1
224C Grand Portage	1560248	APP ____ MN	11.5 191.8	170.11 BSFH20130311AEY	47 57 50.0 89 41 05.0	100.000 600	141.2 874	95.4 Multi-cultural Diversity R	16.4	56.5
224C Grand Portage	AU9499417	VAC ____ MN	11.5 191.8	170.11 RM11122	47 57 50.0 89 41 05.0	100.000 600	141.2 874	95.4 Cook County B'csting Of Mi	16.4	56.5
224D Bergland	W224AW	LIC _CN MI	61.0 241.4	48.90 BLFT19990608UD	46 40 37.0 89 34 39.0	0.010 208	10.7 562	7.3 Gospel Opportunities, Inc.	28.4	27.4

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. 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.