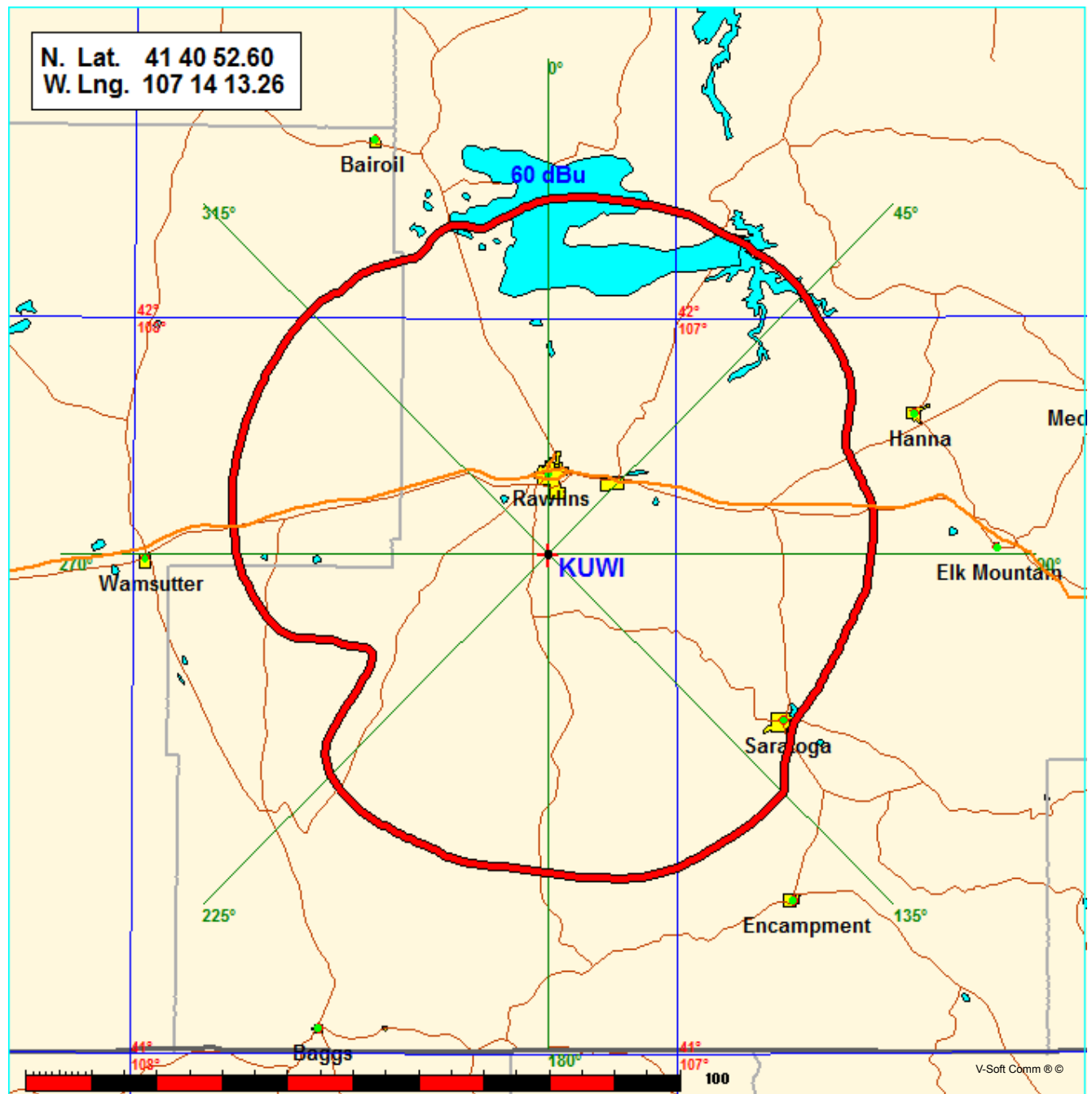


60 dBu Coverage to Rawlins, Wyoming
University Of Wyoming

Coverage Study - GLOBE 30 Sec
01-28-2020

KUWI CH210 C2, 9.0 kW, 321.6m HAAT, 2487.1m COR AMSL
Service Contour = 60 dBu. Population = 12,072



N. Lat. = 41 40 52.6 W. Lng. = 107 14 13.26 NAD 83
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - GLOBE 30 SEC

Distance to 60 dBu Contour & Table of HAATs

Azi.	AV EL	HAAT	ERP kw	dBk	Field	60-F5
000	2119.7	367.4	9.0000	9.54	1.000	53.42
045	2085.0	402.1	9.0000	9.54	1.000	55.37
090	2183.2	303.9	9.0000	9.54	1.000	49.38
135	2161.3	325.8	9.0000	9.54	1.000	50.81
180	2200.1	287.0	9.0000	9.54	1.000	48.24
225	2217.5	269.6	9.0000	9.54	1.000	47.04
270	2209.0	278.1	9.0000	9.54	1.000	47.63
315	2149.8	337.3	9.0000	9.54	1.000	51.56

Ave El= 2165.68 M HAAT= 321.6 M AMSL= 2487.1

Doug Vernier, Telecommunications Consultants
8893 Lakes Blvd, West Palm Beach, FL 33412

Contour-to-Contour Allocation Analysis
University of Wyoming

REFERENCE CH# 210C2 - 89.9 MHz, Pwr= 9 kW, HAAT= 321.6 M, COR= 2487.1 M
41 40 52.60 N. Average Protected F(50-50)= 50.54 km
107 14 13.26 W. Omni-directional

DISPLAY DATES
DATA 01-24-20
SEARCH 01-27-20

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
210C3 KUWI Rawlins		LIC ____ WY		160.9 340.9	0.22 BLED20091016AEL	41 40 45.80 107 14 10.10	2.000 301	2495	---Reference--- University Of Wyoming		
211C2 KHCO Hayden		LIC ____ CO		163.3 343.6	142.68 BLED20091125AGK	40 27 03.90 106 45 08.10	1.800 522	76.5 3140	46.3 Educational Media Foundati	18.2	16.6
209C0 KXGR Loveland		LIC ____ CO		125.9 307.1	198.79 BLED20081218AEY	40 37 02.90 105 19 41.90	80.000 372	114.2 2561	74.5 Calvary Chapel Aurora	41.2	53.7
212C KCSP-FM Casper		LIC ____ WY		32.7 213.4	140.42 BLED20140923ABP	42 44 23.90 106 18 25.10	100.000 593	13.2 2554	89.8 Western Inspirational Broa	71.8	44.3
209D K209CS Casper		LIC D__ WY		31.2 211.8	138.14 BLFT19981201TD	42 44 25.80 106 21 36.00	0.010 551	9.5 2472	5.5 Pensacola Christian Colleg	73.1	50.2
211A KUWL Laramie		LIC ____ WY		105.0 286.1	154.00 BLED20080303AIZ	41 18 35.90 105 27 18.90	0.110 295	35.0 2699	22.7 University Of Wyoming	71.0	61.7
213C0 KUWZ Rock Springs		LIC ____ WY		260.4 79.2	159.34 BLED20060213ADF	41 25 38.80 109 07 19.40	35.000 512	9.4 2680	78.4 University Of Wyoming	103.2	76.2
207C2 KLBB Steamboat Springs		LIC ____ CO		163.3 343.6	142.68 BLED20091125AGM	40 27 03.90 106 45 08.10	2.600 528	3.3 3146	50.2 Educational Media Foundati	88.3	81.5
213D K213EZ Riverton		LIC D__ WY		327.1 146.5	137.77 BLFT20110316AAR	42 43 04.80 108 09 12.30	0.071 233	0.1 2184	3.8 University Of Wyoming	86.7	128.7
210A KPRE Vail		LIC ____ CO		163.4 343.9	237.09 BLED19980129KD	39 38 04.90 106 26 49.10	1.500 90	70.8 3002	20.3 Public Broadcasting Of Col	118.4	89.3

Terrain database is GLOBE 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= - Zone 2, Co to 3rd adjacent.
All separation margins (if shown) include rounding. Call signs with strikeout need not be protected.
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 restricted contour.
« = Station meets FCC minimum distance spacing for its class.

HOW TO READ THE FM COMPUTER PRINT-OUT

Full Service Stations

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. Contour distances are in kilometers and are predicted 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 difference in kilometers between of the reference station's protected contour and the data file station's interference contour at the closest point between the contours. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, "IN" column is a measure of incoming interference. Negative distances in this column indicate the presence of contour overlap. Listed antenna heights and power are those given in the FCC database. The column labeled "OUT " shows the greatest distance in kilometers of overlap or smallest of clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap.

Under the "AZI" column, the first row of numbers indicate the True North bearings from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station.

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

For I.F. relationships, some channel-six TV relationships and relationships with commercial channel stations providing clearance the minimum spacings values the "IN" and "OUT" columns can 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** (or lack of it) 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 call letters of stations meeting the minimum separation distances under the rules will be flagged by the characters "<<" appended to the right-hand side of the call sign. The "^" character appended to the call sign means the station has been "max-classed" according to the provisions of section 73.525 of the Rules.

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 with an omni-directional antenna. 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" or left blank.

Contour-to-Contour Allocation Analysis - KUWI vs KHCO
University Of Wyoming

FMCommander Single Allocation Study - 01-28-2020 - GLOBE 30 Sec
KUWI's Overlaps (In= 18.2 km, Out= 16.65 km)

KUWI CH 210 C2

Lat= 41 40 52.60, Lng= 107 14 13.26

9.0 kW 321.6 m HAAT, 2487.1 m COR

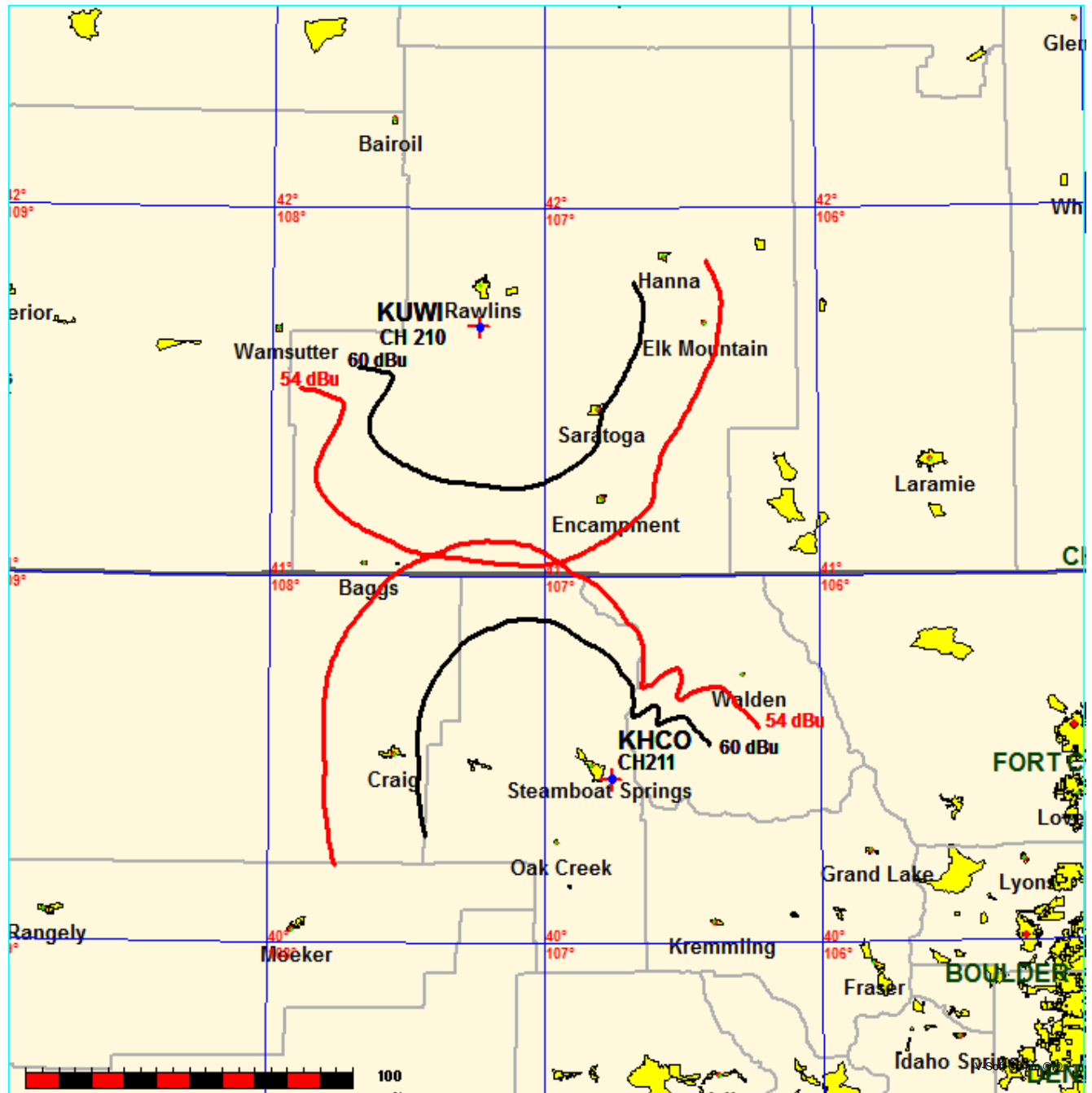
Prot.= 60 dBu, Intef.= 54 dBu

KHCO CH 211 C2 BLED20091125AGK

Lat= 40 27 03.90, Lng= 106 45 08.10

1.8 kW 522 m HAAT, 3140 m COR

Prot.= 60 dBu, Intef.= 54 dBu



01-28-2020

Terrain Data: GLOBE 30 Sec

FMOver Analysis

KUWI

KHCO BLED20091125AGK

Channel = 210C2

Max ERP = 9 kW

RCAMSL = 2487.1 m

N. Lat. 41 40 52.60

W. Lng. 107 14 13.26

Protected

60 dBu

Channel = 211C2

Max ERP = 1.8 kW

RCAMSL = 3140 m

N. Lat. 40 27 03.90

W. Lng. 106 45 08.10

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
103.0	009.0000	0273.3	047.3	002.6	001.8000	0263.4	126.1	30.53	
104.0	009.0000	0270.8	047.1	002.5	001.8000	0265.4	125.3	30.74	
105.0	009.0000	0269.5	047.0	002.4	001.8000	0267.1	124.6	30.94	
106.0	009.0000	0267.9	046.9	002.2	001.8000	0269.0	123.8	31.14	
107.0	009.0000	0265.8	046.8	002.1	001.8000	0271.3	123.0	31.35	
108.0	009.0000	0263.7	046.6	001.9	001.8000	0273.9	122.3	31.57	
109.0	009.0000	0262.2	046.5	001.7	001.8000	0276.1	121.5	31.79	
110.0	009.0000	0260.5	046.4	001.6	001.8000	0278.6	120.8	32.00	
111.0	009.0000	0258.4	046.3	001.4	001.8000	0281.4	120.1	32.23	
112.0	009.0000	0256.5	046.2	001.2	001.8000	0284.2	119.4	32.45	
113.0	009.0000	0255.5	046.1	001.0	001.8000	0286.8	118.7	32.67	
114.0	009.0000	0255.2	046.1	000.8	001.8000	0289.1	117.9	32.90	
115.0	009.0000	0254.8	046.0	000.7	001.8000	0291.6	117.2	33.12	
116.0	009.0000	0253.6	046.0	000.5	001.8000	0294.5	116.5	33.36	
117.0	009.0000	0252.6	045.9	000.3	001.8000	0297.5	115.8	33.59	
118.0	009.0000	0251.5	045.8	000.0	001.8000	0300.6	115.1	33.83	
119.0	009.0000	0250.5	045.7	359.8	001.8000	0303.9	114.5	34.08	
120.0	009.0000	0248.9	045.6	359.6	001.8000	0307.5	113.8	34.33	
121.0	009.0000	0247.4	045.5	359.3	001.8000	0310.7	113.2	34.58	
122.0	009.0000	0246.2	045.5	359.1	001.8000	0313.7	112.6	34.83	
123.0	009.0000	0245.9	045.4	358.8	001.8000	0315.9	111.9	35.07	
124.0	009.0000	0246.6	045.5	358.6	001.8000	0318.2	111.3	35.33	
125.0	009.0000	0249.7	045.7	358.5	001.8000	0319.9	110.5	35.60	
126.0	009.0000	0255.2	046.1	358.4	001.8000	0321.1	109.6	35.88	
127.0	009.0000	0262.0	046.5	358.3	001.8000	0322.0	108.7	36.18	
128.0	009.0000	0267.6	046.9	358.2	001.8000	0323.4	107.9	36.48	
129.0	009.0000	0271.7	047.2	358.0	001.8000	0325.5	107.1	36.80	
130.0	009.0000	0276.3	047.5	357.8	001.8000	0327.6	106.2	37.12	
131.0	009.0000	0283.2	048.0	357.7	001.8000	0329.0	105.3	37.45	
132.0	009.0000	0293.2	048.7	357.7	001.8000	0329.6	104.2	37.79	
133.0	009.0000	0305.6	049.5	357.6	001.8000	0329.7	103.0	38.16	
134.0	009.0000	0317.4	050.3	357.6	001.8000	0330.3	101.9	38.53	
135.0	009.0000	0325.2	050.8	357.4	001.8000	0332.2	100.9	38.89	
136.0	009.0000	0328.8	051.0	357.1	001.8000	0335.3	100.1	39.23	
137.0	009.0000	0330.2	051.1	356.8	001.8000	0339.4	099.5	39.56	
138.0	009.0000	0330.9	051.1	356.4	001.8000	0344.3	098.9	39.90	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
139.0	009.0000	0331.7	051.2	356.0	001.8000	0348.0	098.3	40.20
140.0	009.0000	0332.3	051.2	355.6	001.8000	0351.7	097.7	40.48
141.0	009.0000	0332.7	051.3	355.2	001.8000	0356.2	097.2	40.78
142.0	009.0000	0333.0	051.3	354.7	001.8000	0361.5	096.7	41.09
143.0	009.0000	0333.1	051.3	354.3	001.8000	0366.4	096.2	41.39
144.0	009.0000	0332.8	051.3	353.8	001.8000	0371.9	095.8	41.68
145.0	009.0000	0332.2	051.2	353.3	001.8000	0378.5	095.4	42.01
146.0	009.0000	0331.7	051.2	352.8	001.8000	0384.6	095.0	42.31
147.0	009.0000	0331.5	051.2	352.3	001.8000	0389.6	094.7	42.58
148.0	009.0000	0331.4	051.2	351.8	001.8000	0393.7	094.3	42.82
149.0	009.0000	0331.2	051.2	351.3	001.8000	0396.9	094.0	43.02
150.0	009.0000	0330.9	051.1	350.8	001.8000	0400.3	093.7	43.22
151.0	009.0000	0330.8	051.1	350.3	001.8000	0403.9	093.4	43.43
152.0	009.0000	0331.2	051.2	349.8	001.8000	0409.2	093.0	43.70
153.0	009.0000	0331.7	051.2	349.3	001.8000	0415.9	092.8	44.00
154.0	009.0000	0332.3	051.2	348.7	001.8000	0423.4	092.5	44.33
155.0	009.0000	0333.0	051.3	348.2	001.8000	0432.4	092.2	44.70
156.0	009.0000	0333.7	051.3	347.7	001.8000	0441.9	092.0	45.08
157.0	009.0000	0334.1	051.3	347.1	001.8000	0450.7	091.8	45.42
158.0	009.0000	0334.0	051.3	346.6	001.8000	0459.0	091.7	45.72
159.0	009.0000	0333.4	051.3	346.0	001.8000	0468.9	091.6	46.02
160.0	009.0000	0332.4	051.2	345.5	001.8000	0479.7	091.6	46.31
161.0	009.0000	0330.9	051.1	344.9	001.8000	0490.6	091.6	46.56
162.0	009.0000	0329.4	051.0	344.3	001.8000	0501.6	091.7	46.79
163.0	009.0000	0328.2	051.0	343.8	001.8000	0512.5	091.7	47.00
164.0	009.0000	0326.8	050.9	343.2	001.8000	0522.6	091.8	47.18
165.0	009.0000	0324.8	050.7	342.7	001.8000	0532.4	092.0	47.34
166.0	009.0000	0322.8	050.6	342.1	001.8000	0542.5	092.2	47.52
167.0	009.0000	0320.6	050.5	341.6	001.8000	0553.4	092.4	47.69
168.0	009.0000	0317.3	050.3	341.1	001.8000	0564.3	092.7	47.83
169.0	009.0000	0313.6	050.0	340.5	001.8000	0574.8	093.0	47.95
170.0	009.0000	0310.2	049.8	340.0	001.8000	0585.0	093.4	48.04
171.0	009.0000	0307.6	049.6	339.5	001.8000	0594.8	093.7	48.13
172.0	009.0000	0305.5	049.5	339.0	001.8000	0604.2	094.1	48.20
173.0	009.0000	0303.6	049.4	338.6	001.8000	0613.1	094.4	48.24
174.0	009.0000	0301.9	049.2	338.1	001.8000	0621.6	094.7	48.28
175.0	009.0000	0299.4	049.1	337.6	001.8000	0629.4	095.1	48.28
176.0	009.0000	0295.7	048.8	337.2	001.8000	0636.3	095.7	48.24
177.0	009.0000	0292.1	048.6	336.7	001.8000	0642.7	096.2	48.19
178.0	009.0000	0290.2	048.5	336.3	001.8000	0649.0	096.6	48.16
179.0	009.0000	0288.8	048.4	335.9	001.8000	0655.3	097.0	48.14
180.0	009.0000	0287.4	048.3	335.4	001.8000	0661.6	097.4	48.11
181.0	009.0000	0285.5	048.1	335.0	001.8000	0668.0	097.9	48.06
182.0	009.0000	0284.1	048.0	334.6	001.8000	0674.4	098.4	48.02
183.0	009.0000	0282.6	047.9	334.2	001.8000	0681.1	098.9	47.98
184.0	009.0000	0281.7	047.9	333.8	001.8000	0687.9	099.4	47.95
185.0	009.0000	0280.9	047.8	333.4	001.8000	0694.9	099.8	47.91
186.0	009.0000	0280.4	047.8	333.0	001.8000	0701.9	100.3	47.87
187.0	009.0000	0280.1	047.8	332.6	001.8000	0708.7	100.8	47.83
188.0	009.0000	0280.6	047.8	332.2	001.8000	0715.5	101.2	47.79
189.0	009.0000	0281.7	047.9	331.8	001.8000	0722.1	101.7	47.75

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
190.0	009.0000	0283.5	048.0		331.4	001.8000	0728.6	102.1	47.72
191.0	009.0000	0284.7	048.1		331.0	001.8000	0734.3	102.6	47.66
192.0	009.0000	0285.3	048.1		330.7	001.8000	0739.5	103.1	47.57
193.0	009.0000	0285.9	048.2		330.3	001.8000	0744.9	103.6	47.49
194.0	009.0000	0286.5	048.2		329.9	001.8000	0750.2	104.2	47.40
195.0	009.0000	0287.1	048.2		329.6	001.8000	0756.0	104.7	47.30
196.0	009.0000	0287.5	048.3		329.3	001.8000	0761.6	105.3	47.20
197.0	009.0000	0287.6	048.3		329.0	001.8000	0767.0	106.0	47.09
198.0	009.0000	0287.4	048.3		328.7	001.8000	0772.2	106.6	46.97
199.0	009.0000	0286.8	048.2		328.4	001.8000	0777.1	107.3	46.83
200.0	009.0000	0285.6	048.1		328.2	001.8000	0781.5	108.0	46.68
201.0	009.0000	0284.1	048.0		327.9	001.8000	0785.5	108.7	46.52
202.0	009.0000	0282.4	047.9		327.7	001.8000	0789.0	109.5	46.35
203.0	009.0000	0281.7	047.9		327.5	001.8000	0792.6	110.2	46.18
204.0	009.0000	0282.1	047.9		327.2	001.8000	0796.4	110.9	46.04
205.0	009.0000	0282.9	048.0		327.0	001.8000	0800.2	111.5	45.89
206.0	009.0000	0283.1	048.0		326.8	001.8000	0803.4	112.2	45.73
207.0	009.0000	0282.8	048.0		326.6	001.8000	0806.1	113.0	45.56
208.0	009.0000	0283.2	048.0		326.3	001.8000	0808.9	113.7	45.39
209.0	009.0000	0284.1	048.0		326.1	001.8000	0811.6	114.4	45.23
210.0	009.0000	0284.9	048.1		325.9	001.8000	0813.9	115.2	45.06
211.0	009.0000	0285.5	048.1		325.7	001.8000	0816.0	115.9	44.88
212.0	009.0000	0286.2	048.2		325.5	001.8000	0818.0	116.6	44.70
213.0	009.0000	0286.7	048.2		325.4	001.8000	0820.0	117.4	44.51
214.0	009.0000	0286.9	048.2		325.2	001.8000	0821.8	118.2	44.32
215.0	009.0000	0287.1	048.2		325.1	001.8000	0823.4	119.0	44.13
216.0	009.0000	0287.2	048.3		324.9	001.8000	0824.8	119.8	43.93
217.0	009.0000	0286.5	048.2		324.8	001.8000	0825.9	120.6	43.72
218.0	009.0000	0284.9	048.1		324.7	001.8000	0826.6	121.4	43.50
219.0	009.0000	0283.3	048.0		324.7	001.8000	0827.1	122.2	43.28
220.0	009.0000	0282.0	047.9		324.6	001.8000	0827.7	123.1	43.06
221.0	009.0000	0280.7	047.8		324.6	001.8000	0828.3	123.9	42.84
222.0	009.0000	0279.1	047.7		324.5	001.8000	0828.6	124.8	42.62

01-28-2020

Terrain Data: GLOBE 30 Sec

FMOver Analysis

KHCO BLED20091125AGK

KUWI

Channel = 211C2

Max ERP = 1.8 kW

RCAMSL = 3140 m

N. Lat. 40 27 03.90

W. Lng. 106 45 08.10

Protected

60 dBu

Channel = 210C2

Max ERP = 9 kW

RCAMSL = 2487.1 m

N. Lat. 41 40 52.60

W. Lng. 107 14 13.26

Interfering

54 dBu

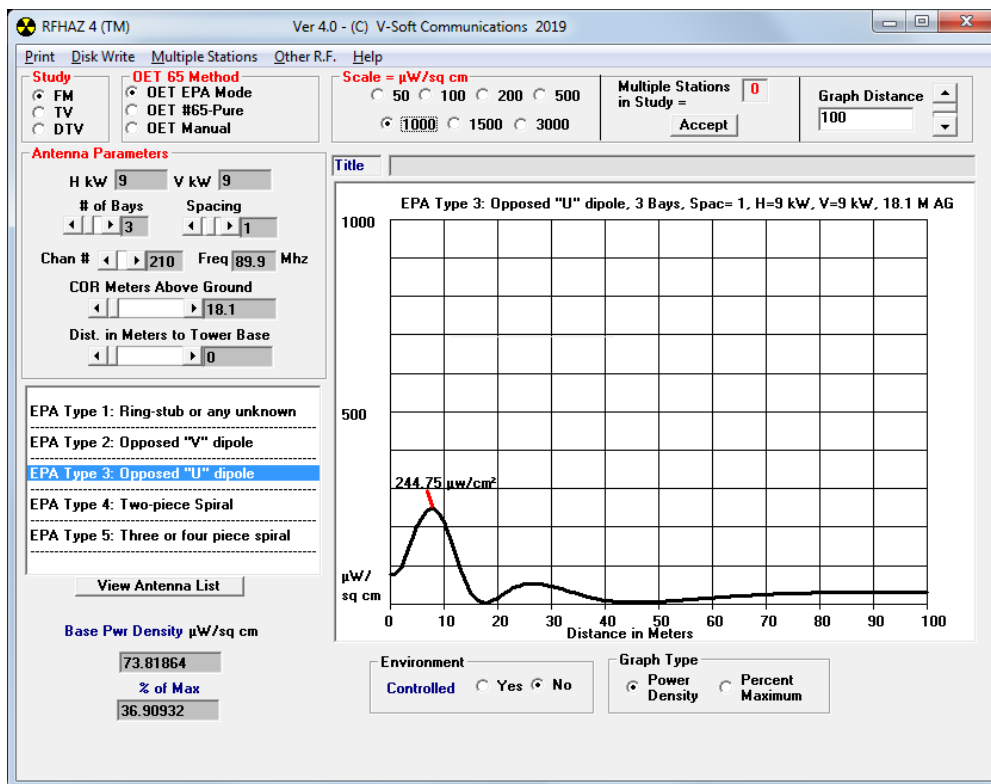
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
284.0	001.8000	1006.7	061.5	188.7	009.0000	0281.3	123.5	38.48	
285.0	001.8000	1015.9	061.7	188.8	009.0000	0281.4	122.5	38.71	
286.0	001.8000	1023.1	061.8	188.8	009.0000	0281.4	121.4	38.94	
287.0	001.8000	1029.4	061.9	188.8	009.0000	0281.4	120.3	39.18	
288.0	001.8000	1035.6	062.0	188.7	009.0000	0281.3	119.2	39.41	
289.0	001.8000	1041.0	062.1	188.7	009.0000	0281.3	118.1	39.65	
290.0	001.8000	1044.9	062.2	188.6	009.0000	0281.2	117.0	39.89	
291.0	001.8000	1048.5	062.3	188.6	009.0000	0281.1	115.9	40.14	
292.0	001.8000	1051.9	062.4	188.5	009.0000	0281.1	114.9	40.38	
293.0	001.8000	1056.0	062.4	188.4	009.0000	0281.0	113.8	40.64	
294.0	001.8000	1060.0	062.5	188.3	009.0000	0280.9	112.7	40.90	
295.0	001.8000	1062.9	062.6	188.2	009.0000	0280.8	111.7	41.16	
296.0	001.8000	1064.5	062.6	188.0	009.0000	0280.6	110.6	41.43	
297.0	001.8000	1064.1	062.6	187.8	009.0000	0280.5	109.6	41.70	
298.0	001.8000	1060.7	062.5	187.6	009.0000	0280.3	108.6	41.97	
299.0	001.8000	1055.0	062.4	187.3	009.0000	0280.2	107.6	42.24	
300.0	001.8000	1048.1	062.3	187.1	009.0000	0280.2	106.6	42.51	
301.0	001.8000	1041.5	062.2	186.8	009.0000	0280.1	105.7	42.79	
302.0	001.8000	1035.1	062.0	186.5	009.0000	0280.2	104.7	43.06	
303.0	001.8000	1028.1	061.9	186.1	009.0000	0280.3	103.8	43.34	
304.0	001.8000	1021.0	061.8	185.8	009.0000	0280.5	102.9	43.62	
305.0	001.8000	1014.7	061.6	185.4	009.0000	0280.6	102.0	43.89	
306.0	001.8000	1010.9	061.6	185.1	009.0000	0280.8	101.1	44.17	
307.0	001.8000	1009.3	061.5	184.8	009.0000	0281.1	100.2	44.46	
308.0	001.8000	1008.7	061.5	184.4	009.0000	0281.4	099.3	44.74	
309.0	001.8000	1008.3	061.5	184.1	009.0000	0281.6	098.5	45.03	
310.0	001.8000	1006.8	061.5	183.7	009.0000	0281.9	097.6	45.30	
311.0	001.8000	1004.2	061.4	183.3	009.0000	0282.2	096.8	45.57	
312.0	001.8000	0999.0	061.3	182.9	009.0000	0282.8	096.0	45.83	
313.0	001.8000	0991.0	061.2	182.4	009.0000	0283.5	095.3	46.08	
314.0	001.8000	0980.7	061.0	181.9	009.0000	0284.3	094.6	46.31	
315.0	001.8000	0968.3	060.7	181.3	009.0000	0285.0	094.0	46.53	
316.0	001.8000	0953.6	060.4	180.7	009.0000	0285.8	093.4	46.73	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
317.0	001.8000	0937.1	060.1	180.1	009.0000	0287.3	092.9	46.93
318.0	001.8000	0919.1	059.7	179.5	009.0000	0288.1	092.5	47.09
319.0	001.8000	0899.9	059.3	178.9	009.0000	0289.0	092.1	47.24
320.0	001.8000	0881.2	058.9	178.2	009.0000	0290.0	091.8	47.37
321.0	001.8000	0865.4	058.5	177.5	009.0000	0290.8	091.4	47.50
322.0	001.8000	0853.7	058.3	176.9	009.0000	0292.4	091.1	47.67
323.0	001.8000	0843.6	058.0	176.3	009.0000	0294.5	090.7	47.85
324.0	001.8000	0833.8	057.8	175.7	009.0000	0296.9	090.4	48.03
325.0	001.8000	0824.0	057.5	175.1	009.0000	0299.2	090.1	48.19
326.0	001.8000	0813.0	057.2	174.4	009.0000	0301.1	089.8	48.33
327.0	001.8000	0800.1	056.9	173.7	009.0000	0302.4	089.7	48.42
328.0	001.8000	0784.3	056.4	173.0	009.0000	0303.5	089.6	48.47
329.0	001.8000	0766.4	055.9	172.3	009.0000	0304.8	089.7	48.49
330.0	001.8000	0749.3	055.4	171.6	009.0000	0306.2	089.8	48.50
331.0	001.8000	0734.7	054.9	171.0	009.0000	0307.7	089.9	48.52
332.0	001.8000	0719.3	054.5	170.3	009.0000	0309.4	090.0	48.53
333.0	001.8000	0702.2	053.9	169.6	009.0000	0311.4	090.2	48.52
334.0	001.8000	0684.5	053.3	168.9	009.0000	0313.8	090.5	48.51
335.0	001.8000	0668.2	052.8	168.3	009.0000	0316.2	090.8	48.48
336.0	001.8000	0653.2	052.3	167.6	009.0000	0318.6	091.2	48.46
337.0	001.8000	0638.8	051.7	167.0	009.0000	0320.6	091.5	48.42
338.0	001.8000	0622.8	051.2	166.4	009.0000	0322.0	091.9	48.33
339.0	001.8000	0605.1	050.5	165.8	009.0000	0323.2	092.4	48.20
340.0	001.8000	0585.9	049.8	165.2	009.0000	0324.4	093.1	48.04
341.0	001.8000	0565.6	048.9	164.7	009.0000	0325.5	093.9	47.82
342.0	001.8000	0545.0	047.9	164.1	009.0000	0326.6	094.8	47.57
343.0	001.8000	0526.5	046.9	163.6	009.0000	0327.5	095.8	47.30
344.0	001.8000	0508.1	045.9	163.1	009.0000	0328.1	096.8	47.02
345.0	001.8000	0488.5	044.9	162.7	009.0000	0328.6	097.8	46.72
346.0	001.8000	0469.1	044.0	162.2	009.0000	0329.1	098.8	46.43
347.0	001.8000	0452.6	043.2	161.8	009.0000	0329.6	099.6	46.18
348.0	001.8000	0436.1	042.4	161.4	009.0000	0330.2	100.5	45.94
349.0	001.8000	0419.6	041.6	161.1	009.0000	0330.8	101.3	45.70
350.0	001.8000	0406.9	041.0	160.7	009.0000	0331.4	102.0	45.51
351.0	001.8000	0399.2	040.7	160.4	009.0000	0331.9	102.5	45.39
352.0	001.8000	0392.4	040.4	160.0	009.0000	0332.4	102.9	45.28
353.0	001.8000	0382.6	040.0	159.7	009.0000	0332.8	103.5	45.13
354.0	001.8000	0369.3	039.4	159.4	009.0000	0333.1	104.2	44.92
355.0	001.8000	0358.1	038.8	159.1	009.0000	0333.3	104.9	44.72
356.0	001.8000	0347.9	038.3	158.8	009.0000	0333.5	105.6	44.53
357.0	001.8000	0336.6	037.7	158.6	009.0000	0333.6	106.3	44.31
358.0	001.8000	0325.5	037.1	158.3	009.0000	0333.8	107.1	44.09
359.0	001.8000	0314.3	036.5	158.1	009.0000	0333.9	107.9	43.87
000.0	001.8000	0301.2	035.8	158.0	009.0000	0334.0	108.8	43.63
001.0	001.8000	0286.7	035.0	157.8	009.0000	0334.0	109.7	43.36
002.0	001.8000	0272.1	034.2	157.7	009.0000	0334.1	110.8	43.08
003.0	001.8000	0258.1	033.4	157.6	009.0000	0334.1	111.8	42.81
004.0	001.8000	0243.6	032.4	157.5	009.0000	0334.1	112.8	42.54
005.0	001.8000	0230.3	031.5	157.5	009.0000	0334.1	113.9	42.27
006.0	001.8000	0224.1	031.1	157.4	009.0000	0334.1	114.5	42.11
007.0	001.8000	0221.7	030.9	157.2	009.0000	0334.1	114.9	42.01

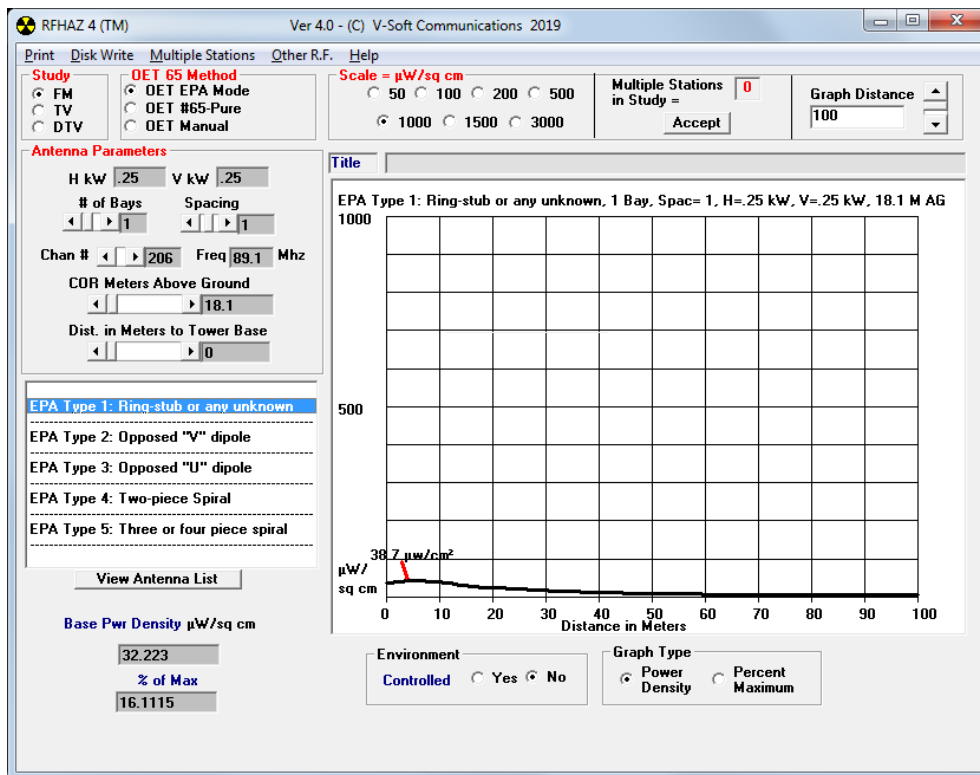
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
008.0	001.8000	0216.5	030.6		157.0	009.0000	0334.1	115.5	41.86
009.0	001.8000	0211.2	030.2		156.9	009.0000	0334.1	116.1	41.71
010.0	001.8000	0202.5	029.5		156.9	009.0000	0334.0	117.0	41.51
011.0	001.8000	0193.2	028.9		156.8	009.0000	0334.0	117.8	41.31
012.0	001.8000	0180.1	028.0		156.9	009.0000	0334.1	118.8	41.07
013.0	001.8000	0163.6	026.8		157.0	009.0000	0334.1	120.1	40.78
014.0	001.8000	0148.3	025.6		157.2	009.0000	0334.1	121.3	40.50
015.0	001.8000	0132.5	024.4		157.3	009.0000	0334.1	122.5	40.21
016.0	001.8000	0115.1	023.0		157.6	009.0000	0334.1	123.9	39.90
017.0	001.8000	0096.6	021.1		158.0	009.0000	0334.0	125.6	39.51
018.0	001.8000	0084.2	019.7		158.3	009.0000	0333.8	126.9	39.19
019.0	001.8000	0081.5	019.4		158.2	009.0000	0333.8	127.4	39.09
020.0	001.8000	0085.2	019.8		158.0	009.0000	0334.0	127.3	39.12
021.0	001.8000	0089.6	020.3		157.7	009.0000	0334.1	127.1	39.16
022.0	001.8000	0091.4	020.6		157.5	009.0000	0334.1	127.2	39.14
023.0	001.8000	0093.4	020.8		157.3	009.0000	0334.1	127.3	39.12
024.0	001.8000	0097.8	021.3		157.1	009.0000	0334.1	127.2	39.13
025.0	001.8000	0105.2	022.1		156.7	009.0000	0334.0	127.0	39.19
026.0	001.8000	0114.0	022.9		156.3	009.0000	0333.8	126.7	39.24
027.0	001.8000	0123.1	023.7		155.9	009.0000	0333.6	126.5	39.28
028.0	001.8000	0131.2	024.3		155.6	009.0000	0333.4	126.5	39.28
029.0	001.8000	0137.8	024.8		155.3	009.0000	0333.2	126.5	39.27
030.0	001.8000	0143.3	025.3		155.0	009.0000	0333.0	126.6	39.24
031.0	001.8000	0147.2	025.6		154.8	009.0000	0332.8	126.8	39.19
032.0	001.8000	0148.0	025.6		154.6	009.0000	0332.7	127.1	39.11
033.0	001.8000	0144.0	025.3		154.6	009.0000	0332.7	127.7	38.99
034.0	001.8000	0137.9	024.8		154.7	009.0000	0332.8	128.3	38.85
035.0	001.8000	0131.6	024.3		154.8	009.0000	0332.8	128.9	38.71
036.0	001.8000	0124.2	023.8		154.9	009.0000	0332.9	129.6	38.56
037.0	001.8000	0115.0	023.0		155.1	009.0000	0333.1	130.3	38.40
038.0	001.8000	0105.7	022.1		155.4	009.0000	0333.3	131.0	38.24
039.0	001.8000	0097.8	021.3		155.7	009.0000	0333.4	131.8	38.08
040.0	001.8000	0095.1	021.0		155.7	009.0000	0333.5	132.2	37.98
041.0	001.8000	0099.2	021.4		155.5	009.0000	0333.3	132.4	37.94
042.0	001.8000	0108.8	022.4		155.0	009.0000	0333.0	132.3	37.94
043.0	001.8000	0119.7	023.4		154.5	009.0000	0332.7	132.3	37.93

RF Emissions Exhibit

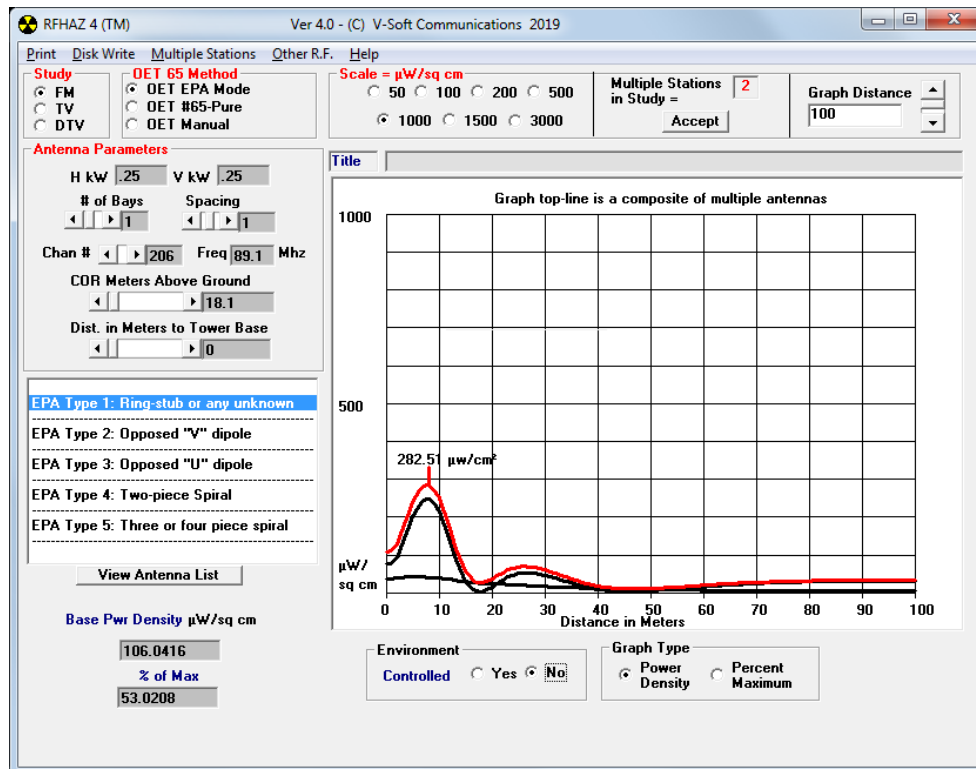
Proposed KUWI (existing tower) at new coordinates



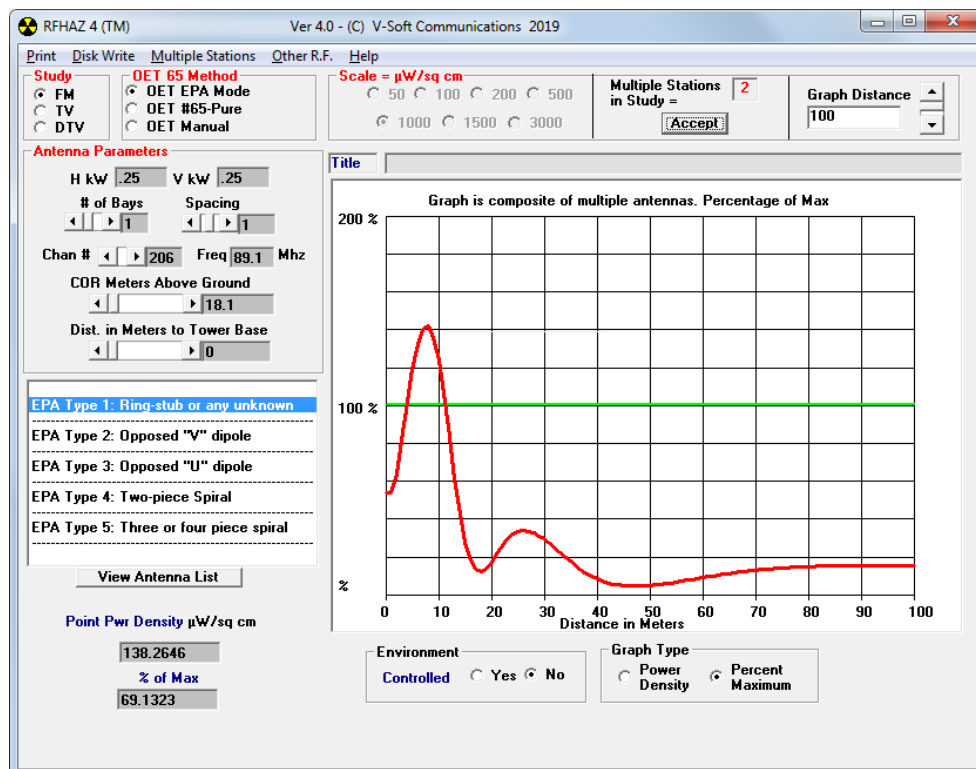
K217DG



Combination of the two stations on the tower.



Emissions total are shown in percentage of the uncontrolled maximum.



Continued...

Based on the Commissions new FMModel procedure for the analysis of EPA studies antennas, we find the combination of emissions to be $282.5 \mu\text{w}/\text{cm}^2$ at the highest point, some eight meters from the tower base. This amounts to 142 percent of the maximum for an uncontrolled area. The mountain site is extremely isolated with posted signs. Though no intruders are expected, the applicant will post R.F. warning signs that are readable from an eleven meter distance. Both antennas on this tower are owned by the applicant. The applicant will reduce power or terminate transmissions to protect workers. Consequently, the applicant is confident that it will comply with all FCC rules protecting the public or workers from excessive non-ionizing radio frequency emissions.