

Exhibit 17-1 Site to Site RSS Calculations KPTK-AM 1090 kHz Seattle, WA

Licensed Operation

Point: KFXX		Frequency: 1080 kHz					
Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
KRLD	2615.7	310.1	.0	3703.3	6.668	4.9385	4.9385
KPTK-L *	204.3	181.4	34.7	608.2	282.969	3.4418	6.0195
XEPRS *	1531.9	343.9	1.9	5120.3	21.372	2.1886	6.4050
KNX *	1347.3	346.1	3.1	2802.3	26.396	1.4794	
KSCO	956.5	357.6	6.4	130.5	45.624	1.1909	
KVNI	496.3	244.7	24.6	44.6	106.509	.9497	

Point: KFXX		Frequency: 1080 kHz					
Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
KRLD	2615.5	310.1	.0	3703.1	6.668	4.9388	4.9388
KPTK-L *	204.1	181.3	34.7	606.1	283.099	3.4316	6.0139
XEPRS *	1531.9	343.9	1.9	5119.6	21.371	2.1882	6.3996
KNX *	1347.3	346.1	3.1	2802.3	26.393	1.4792	
KSCO	956.7	357.7	6.4	130.5	45.614	1.1905	
KVNI	496.0	244.7	24.6	44.6	106.588	.9517	

Point: CKRX		Frequency: 1090 kHz					
Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
KPTK-L	749.1	68.0	12.7	513.4	92.587	9.5074	9.5074
KAAY	2358.1	321.0	.0	3829.4	6.653	5.0957	10.7869
XEPRS	1934.4	9.4	1.3	2050.9	11.584	4.7516	
KBOZ	452.6	344.4	21.9	83.0	132.306	2.1965	
KMXA	1269.1	332.4	5.7	91.1	40.729	.7423	

* - indicates an adjacent channel station.

Proposed Operation

Point: KFXX		Frequency: 1080 kHz					
Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
KRLD	2615.7	310.1	.0	3703.3	6.668	4.9385	4.9385
KPTK-P *	204.3	181.4	34.7	599.5	282.969	3.3927	5.9915
XEPRS *	1531.9	343.9	1.9	5120.3	21.372	2.1886	6.3788
KNX *	1347.3	346.1	3.1	2802.3	26.396	1.4794	
KSCO	956.5	357.6	6.4	130.5	45.624	1.1909	
KVNI	496.3	244.7	24.6	44.6	106.509	.9497	

Point: KFXX		Frequency: 1080 kHz					
Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
KRLD	2615.5	310.1	.0	3703.1	6.668	4.9388	4.9388
KPTK-P *	204.1	181.3	34.7	597.3	283.099	3.3821	5.9859
XEPRS *	1531.9	343.9	1.9	5119.6	21.371	2.1882	6.3733
KNX *	1347.3	346.1	3.1	2802.3	26.393	1.4792	
KSCO	956.7	357.7	6.4	130.5	45.614	1.1905	
KVNI	496.0	244.7	24.6	44.6	106.588	.9517	

Point: CKRX		Frequency: 1090 kHz					
Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
KPTK-P	749.1	68.0	12.7	494.5	92.587	9.1565	9.1565
KAAY	2358.1	321.0	.0	3829.4	6.653	5.0957	10.4788
XEPRS	1934.4	9.4	1.3	2050.9	11.584	4.7516	
KBOZ	452.6	344.4	21.9	83.0	132.306	2.1965	
KMXA	1269.1	332.4	5.7	91.1	40.729	.7423	

* - indicates an adjacent channel station.

Point: KBOZ Frequency: 1090 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
-----	-----	-----	-----	-----	-----	-----	-----
KAAZ	2009.5	313.2	.0	2722.7	10.619	5.7823	5.7823
XEPRS	1554.2	17.6	5.0	1162.2	20.259	4.7090	7.4572
KNZZ *	772.7	344.4	8.8	1961.8	59.204	2.3229	7.8106
KMXA	844.7	323.7	7.8	211.9	50.115	2.1235	8.0941
KVOP	1511.4	330.8	2.0	342.3	19.719	1.3499	
KPTK-P	888.8	98.7	7.2	151.3	41.438	1.2540	
KRLD *	1877.6	323.1	.2	3262.4	13.045	.8511	

Point: PROVIDE Frequency: 1090 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
-----	-----	-----	-----	-----	-----	-----	-----
KMXA	648.5	293.1	11.0	616.1	79.992	9.8570	9.8570
XEPRS	1133.6	22.6	9.3	768.9	36.679	5.6407	11.3568
KAAZ	1884.4	300.7	.1	1191.2	13.362	3.1834	11.7946
KNZZ *	424.7	317.9	17.8	1037.0	143.398	2.9740	12.1637
KVOP	1233.0	316.5	3.9	478.5	30.361	2.9058	
KRLD *	1661.8	310.6	1.2	3675.0	17.871	1.3135	
KPTK-P	1045.8	123.1	5.5	177.7	34.056	1.2104	

Point: PROVIDE Frequency: 1090 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
-----	-----	-----	-----	-----	-----	-----	-----
KMXA	643.9	293.0	11.1	616.0	80.860	9.9624	9.9624
XEPRS	1133.2	22.8	9.3	752.3	36.709	5.5232	11.3910
KAAZ	1879.8	300.7	.1	1187.8	13.433	3.1913	11.8296
KNZZ *	420.0	318.0	18.0	1045.0	145.349	3.0378	12.2134
KVOP	1228.3	316.6	3.9	478.5	30.570	2.9253	
KRLD *	1657.0	310.6	1.2	3674.7	17.973	1.3209	
KPTK-P	1050.5	123.1	5.4	177.8	33.792	1.2017	

Point: LEBANON Frequency: 1100 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
-----	-----	-----	-----	-----	-----	-----	-----
KFAX	771.2	356.0	8.8	2625.3	64.236	33.7282	33.7282
KBND *	134.1	292.1	46.7	621.5	367.851	4.5723	
HOPE	547.2	191.4	13.5	203.0	92.924	3.7725	
KPTK-P *	317.6	185.6	23.7	835.0	190.798	3.1862	

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* - indicates an adjacent channel station.

Point: TILLAMO Frequency: 1100 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
-----	-----	-----	-----	-----	-----	-----	-----
KFAX	881.9	351.1	7.3	2843.1	51.791	29.4490	29.4490
KPTK-L *	242.5	207.9	30.1	1815.3	247.035	8.9686	30.7844
HOPE	473.1	203.6	15.9	200.0	113.054	4.5211	
KBND *	256.3	306.8	28.7	890.4	239.892	4.2721	
KWWN	1260.7	327.3	3.7	396.8	28.507	2.2622	

* - indicates an adjacent channel station.

Point: TILLAMO Frequency: 1100 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
-----	-----	-----	-----	-----	-----	-----	-----
KFAX	881.9	351.1	7.3	2843.1	51.791	29.4490	29.4490
KPTK-P *	242.5	207.9	30.1	1814.5	247.035	8.9649	30.7833
HOPE	473.1	203.6	15.9	200.0	113.054	4.5211	
KBND *	256.3	306.8	28.7	890.4	239.892	4.2721	
KWWN	1260.7	327.3	3.7	396.8	28.507	2.2622	

* - indicates an adjacent channel station.

Exhibit 17-2
RSS Calculation of Nighttime Interference-free Contour
KPTK-AM Seattle, WA

Call: KPTK
Freq: 1090 kHz
SEATTLE, WA, US
Hours: N
Lat: 47-23-38 N
Lng: 122-25-25 W
Power: 50.0 kW
Theo RMS: 2431.76 mV/m @ 1km @ 50.0 kW

Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Contributors:

Call	Freq (kHz)	City	St	Ct	Dist (km)	Azi (deg)	Theta		Max V-Rad (mV/m)	SW Mult (uV/m)	Limit (mV/m)	Limit (%)	RSS Limit (mV/m)
							Min (deg)	Max (deg)					
XEPRS/A	1090	ROSARITO	BN	MX	1724.3	346.4	0.9	4.0	4947.14	16.72	16.539	100.0	16.539
CKRX/A	1090	LETHBRIDGE	AB	CA	749.1	255.2	9.2	16.0	350.87	51.10	3.586	21.7	16.923
KFXX	1080	PORTLAND	OR	US	204.1	1.2	34.7	49.0	484.91	283.10	2.746	16.2	17.145
KAAY	1090	LITTLE ROCK	AR	US	2879.7	308.8	0.0	0.0	2121.47	4.56	1.936	11.3	17.253
KFAX	1100	SAN FRANCISCO	CA	US	1085.6	358.8	5.1	10.0	2516.31	35.77	1.800	10.4	17.347

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KPTK

Freq: 1090 kHz

Class: B

Latitude: 47-23-38 N

Longitude: 122-25-25 W

Power: 50 kW

RMS: 2431.763 mV/m @1km

Towers: 3

Augs: 0



KPTK

Freq: 1090 kHz

Class: B

Latitude: 47-23-38 N

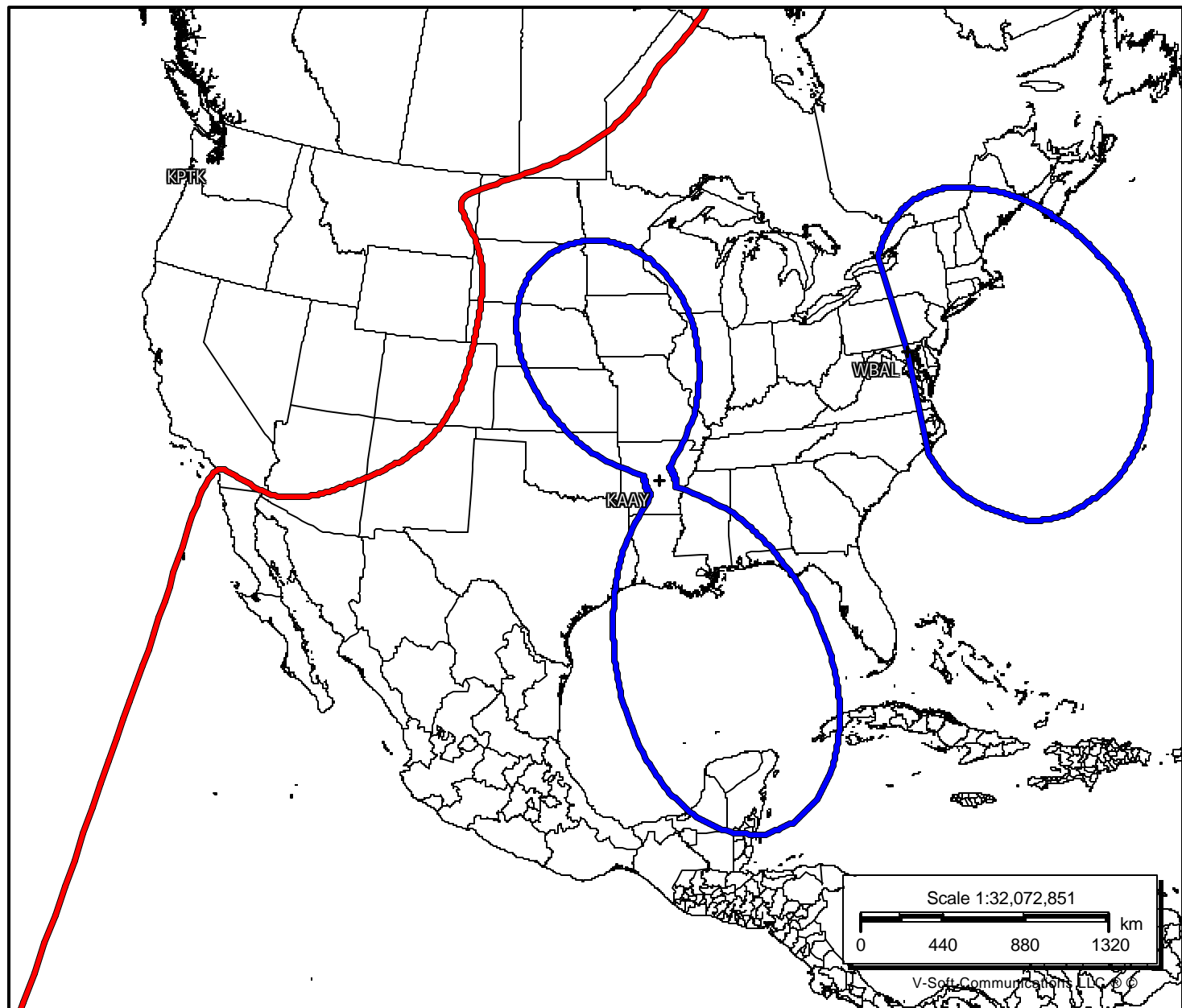
Longitude: 122-25-25 W

Power: 50 kW

RMS: 2431.763 mV/m @1km

Towers: 3

Augs: 0



KPTK

Freq: 1090 kHz

Class: B

Latitude: 47-23-38 N

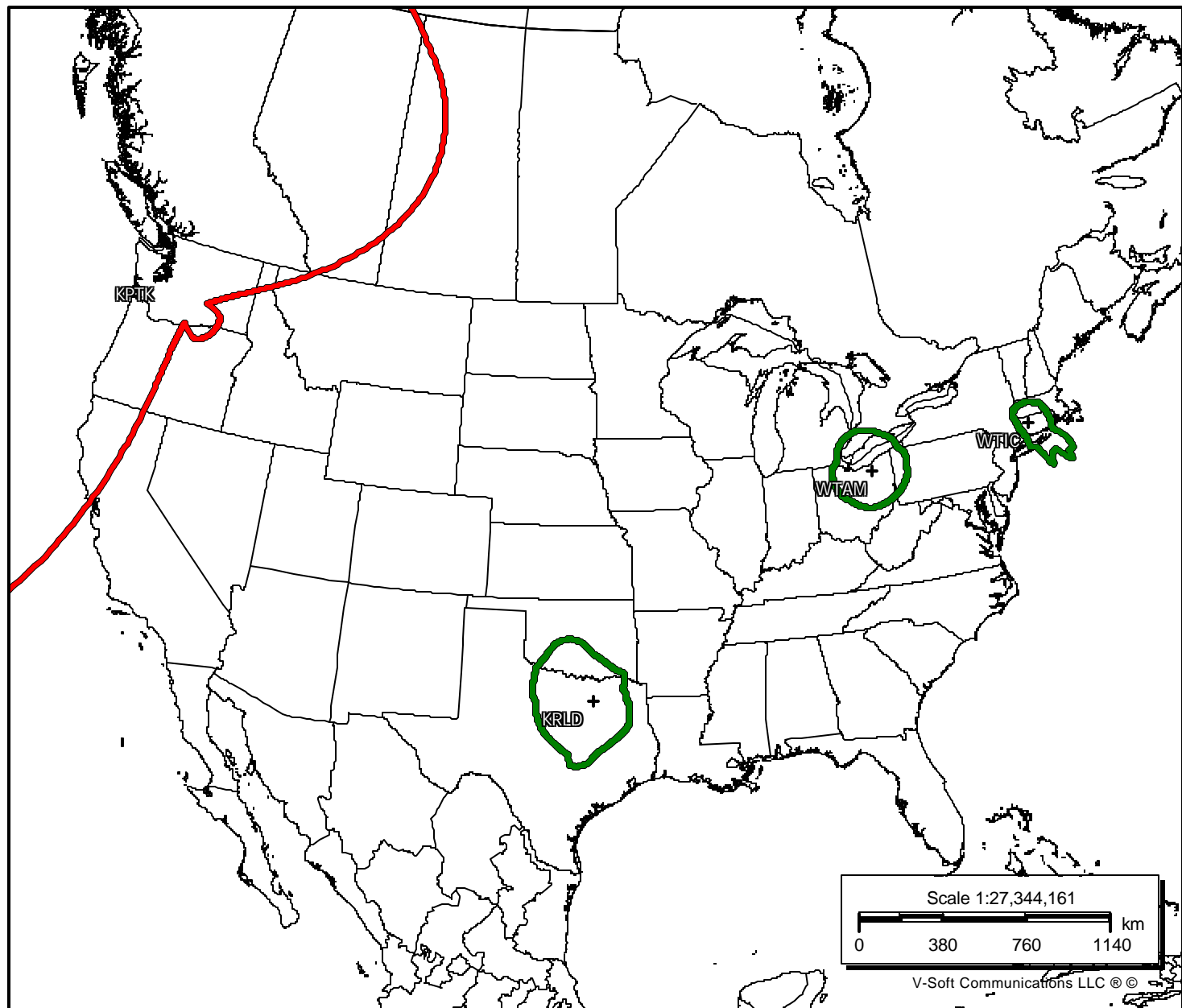
Longitude: 122-25-25 W

Power: 50 kW

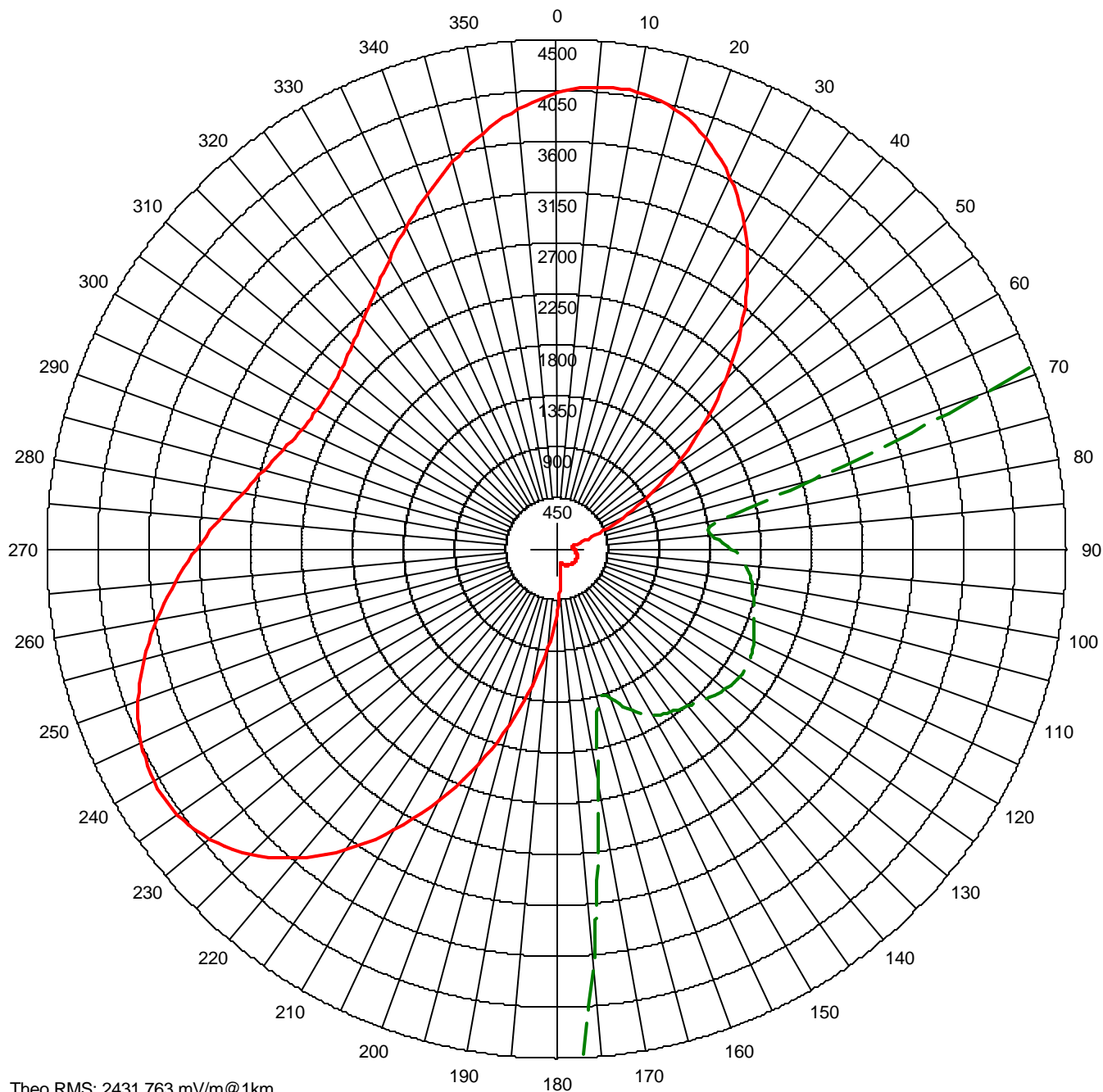
RMS: 2431.763 mV/m @1km

Towers: 3

Augs: 0



AM Directional Pattern



Theo RMS: 2431.763 mV/m@1km
Std RMS: 2554.43 mV/m@1km
Q: 70.711 mV/m@1km

Standard Horizontal Plane Pattern

— Pattern (mV/m @ 1km)
- - Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.480	-55.0	0.0	0.0	160.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	138.0	123.0	160.0	0	0	0.0	0.0	0.0	0.0
3	0.540	63.0	276.0	123.0	160.0	0	0	0.0	0.0	0.0	0.0

Call: KPTK
Freq: 1090 kHz
SEATTLE, WA, US
Hours: N
Lat: 47-23-38 N
Lng: 122-25-25 W
Power: 50.0 kW
Theo RMS: 2431.76 mV/m@1km
@ 50.0 kW

Tabulation of Nighttime Directional Antenna Pattern KPTK-AM Seattle, WA

STANDARD RADIATION PATTERN

(MV/M AT ONE KILOMETER)

AZIMUTH	.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00

.00	4024.51	3981.30	3854.21	3650.68	3382.40	3064.30	2713.27	2346.78	1981.48	1631.96	1309.80	1023.02	775.89
5.00	4094.93	4048.97	3914.03	3698.67	3416.21	3083.39	2718.82	2341.28	1968.18	1614.29	1290.87	1005.26	760.89
10.00	4096.55	4049.04	3909.75	3688.04	3398.34	3058.64	2688.62	2307.82	1933.96	1581.70	1261.82	981.02	742.00
15.00	4020.13	3972.51	3833.06	3611.49	3322.75	2985.31	2619.18	2243.98	1877.27	1533.25	1222.16	950.07	719.13
20.00	3861.56	3815.42	3680.36	3465.99	3187.04	2861.64	2509.32	2149.08	1797.76	1468.84	1171.91	912.47	692.36
25.00	3622.86	3579.76	3453.62	3253.44	2993.03	2689.32	2360.54	2024.37	1696.44	1389.25	1111.61	868.62	661.95
30.00	3312.38	3273.74	3160.58	2980.89	2746.87	2473.51	2176.99	1873.06	1575.69	1296.11	1042.37	819.20	628.30
35.00	2944.32	2911.25	2814.32	2660.10	2458.69	2222.56	1965.27	1700.11	1439.05	1191.87	965.77	765.18	591.96
40.00	2537.43	2510.64	2431.99	2306.45	2141.69	1947.31	1733.85	1511.86	1291.03	1079.57	883.75	707.73	553.61
45.00	2113.07	2092.81	2033.18	1937.49	1810.93	1660.08	1492.38	1315.49	1136.75	962.65	798.50	648.17	513.98
50.00	1693.10	1679.16	1637.94	1571.21	1481.81	1373.52	1250.76	1118.42	981.47	844.68	712.33	587.90	473.87
55.00	1297.69	1289.43	1264.80	1224.28	1168.73	1099.49	1018.37	927.70	830.26	729.13	627.47	528.27	434.07
60.00	943.66	940.10	929.27	910.71	883.84	848.11	803.25	749.47	687.59	619.09	545.96	470.57	395.30
65.00	643.43	643.37	642.87	640.99	636.30	627.09	611.66	588.59	557.08	517.12	469.53	415.90	358.25
70.00	405.37	407.42	413.27	422.02	432.15	441.55	447.80	448.42	441.31	425.14	399.54	365.15	323.47
75.00	236.45	238.89	246.26	258.51	275.06	294.37	313.99	330.83	341.82	344.37	336.90	319.00	291.41
80.00	148.19	148.63	150.78	156.74	168.73	187.41	211.15	236.46	259.16	275.37	282.15	277.89	262.41
85.00	137.68	135.46	129.55	122.38	118.49	123.44	139.90	165.08	193.11	218.10	235.40	242.01	236.67
90.00	154.71	151.81	143.33	130.15	114.62	102.04	100.90	116.18	142.88	172.06	196.49	211.41	214.31
95.00	167.93	165.23	157.16	143.89	126.08	105.93	89.73	88.62	107.30	136.40	164.98	185.93	195.33
100.00	174.90	172.36	164.87	152.69	135.91	115.02	92.86	78.37	84.73	110.01	140.27	165.35	179.70
105.00	180.02	177.27	169.46	157.47	141.72	121.97	98.91	77.79	72.59	91.58	121.68	149.35	167.33
110.00	186.06	182.76	173.71	160.70	144.95	126.16	103.74	80.30	67.37	79.64	108.47	137.62	158.10
115.00	192.43	188.53	177.97	163.40	146.89	128.44	106.75	82.76	65.69	72.68	99.99	129.88	151.93
120.00	196.79	192.49	180.91	165.17	147.94	129.48	108.18	84.17	65.35	69.44	95.71	125.89	148.72
125.00	197.23	192.89	181.20	165.35	148.04	129.57	108.31	84.30	65.33	69.16	95.33	125.53	148.43
130.00	193.54	189.54	178.72	163.85	147.17	128.73	107.15	83.14	65.57	71.77	98.81	128.78	151.05
135.00	187.37	183.95	174.59	161.28	145.41	126.74	104.48	80.85	66.84	77.90	106.42	135.77	156.63
140.00	181.13	178.29	170.29	158.18	142.51	123.01	100.02	78.19	71.11	88.73	118.63	146.68	165.24
145.00	175.94	173.39	165.92	153.88	137.36	116.65	94.05	77.74	81.57	105.73	136.09	161.79	176.97
150.00	169.70	167.05	159.13	146.09	128.37	107.73	89.69	85.40	101.81	130.42	159.52	181.44	191.94

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155.00	157.97	155.08	146.56	133.09	116.55	101.60	96.77	109.02	134.63	164.13	189.61	205.91	210.24
160.00	140.54	138.05	131.17	122.03	114.92	116.01	129.53	153.52	181.83	208.02	227.00	235.47	231.93
165.00	141.00	140.81	141.18	144.61	154.07	171.07	194.34	220.35	244.64	262.99	272.16	270.29	257.00
170.00	211.87	214.11	221.04	232.93	249.57	269.70	290.92	310.10	323.94	329.62	325.31	310.36	285.36
175.00	365.79	368.07	374.65	384.73	396.86	408.98	418.59	423.05	420.08	408.06	386.40	355.53	316.83
180.00	590.62	591.10	592.21	592.96	591.84	587.02	576.56	558.81	532.68	497.87	454.98	405.40	351.09
185.00	878.97	876.22	867.75	852.98	831.09	801.26	762.87	715.77	660.42	597.97	530.22	459.36	387.73
190.00	1223.09	1215.86	1194.23	1158.49	1109.14	1047.10	973.72	890.87	800.91	706.58	610.84	516.54	426.21
195.00	1611.43	1598.69	1560.97	1499.76	1417.47	1317.34	1203.25	1079.54	950.74	821.27	695.18	575.87	465.86
200.00	2028.01	2009.05	1953.20	1863.43	1744.47	1602.29	1443.73	1275.88	1105.59	939.02	781.26	636.12	505.97
205.00	2453.22	2427.73	2352.87	2233.27	2076.12	1890.39	1686.02	1472.98	1260.50	1056.43	866.87	695.94	545.76
210.00	2865.36	2833.50	2740.10	2591.43	2397.10	2169.05	1920.24	1663.45	1410.19	1169.94	949.72	753.92	584.43
215.00	3242.80	3205.19	3095.06	2920.12	2692.18	2425.79	2136.64	1840.00	1549.49	1276.05	1027.58	808.73	621.23
220.00	3566.10	3523.79	3399.94	3203.39	2947.67	2649.39	2326.42	1996.09	1673.74	1371.63	1098.43	859.15	655.46
225.00	3820.03	3774.38	3640.75	3428.67	3152.75	2830.94	2482.57	2126.44	1779.17	1454.09	1160.62	904.18	686.56
230.00	3995.00	3947.55	3808.61	3587.91	3300.41	2964.59	2600.42	2227.47	1863.17	1521.63	1212.95	943.07	714.08
235.00	4087.72	4040.06	3900.39	3678.16	3387.97	3047.96	2677.94	2297.53	1924.45	1573.29	1254.74	975.36	737.74
240.00	4101.12	4054.74	3918.63	3701.52	3417.01	3082.14	2715.78	2336.93	1963.08	1609.00	1285.89	1000.94	757.43
245.00	4043.53	3999.68	3870.78	3664.51	3392.91	3071.32	2717.01	2347.76	1980.38	1629.55	1306.78	1019.96	773.19
250.00	3927.29	3886.93	3768.05	3577.02	3323.99	3022.12	2686.62	2333.58	1978.76	1636.41	1318.27	1032.88	785.24
255.00	3767.18	3730.95	3623.92	3451.07	3220.45	2942.81	2630.97	2299.03	1961.38	1631.64	1321.60	1040.38	793.89
260.00	3578.81	3546.99	3452.70	3299.49	3093.31	2842.40	2557.09	2249.32	1931.92	1617.66	1318.25	1043.29	799.58
265.00	3377.22	3349.81	3268.28	3134.86	2953.46	2729.94	2472.15	2189.85	1894.22	1597.07	1309.85	1042.56	802.81
270.00	3175.87	3152.62	3083.18	2968.58	2810.92	2613.85	2382.95	2125.85	1852.09	1572.47	1298.08	1039.18	804.10
275.00	2986.04	2966.53	2907.98	2810.40	2674.35	2501.55	2295.54	2062.05	1809.06	1546.33	1284.56	1034.14	803.99
280.00	2816.58	2800.28	2751.07	2668.15	2550.81	2399.19	2215.08	2002.57	1768.23	1520.89	1270.77	1028.36	803.00
285.00	2674.05	2660.36	2618.74	2547.77	2445.77	2311.62	2145.72	1950.79	1732.25	1498.05	1258.03	1022.63	801.59
290.00	2562.99	2551.26	2515.39	2453.51	2363.21	2242.46	2090.62	1909.36	1703.19	1479.38	1247.39	1017.66	800.14
295.00	2486.31	2475.91	2443.93	2388.19	2305.85	2194.24	2052.04	1880.21	1682.60	1466.04	1239.70	1013.97	798.97
300.00	2445.72	2436.02	2406.05	2353.54	2275.36	2168.56	2031.44	1864.59	1671.54	1458.83	1235.51	1011.93	798.30
305.00	2442.01	2432.37	2402.59	2350.37	2272.57	2166.20	2029.55	1863.16	1670.52	1458.17	1235.12	1011.75	798.23
310.00	2475.25	2465.04	2433.61	2378.75	2297.54	2187.25	2046.44	1875.97	1679.60	1464.08	1238.57	1013.42	798.79
315.00	2544.80	2533.39	2498.45	2438.03	2349.63	2231.05	2081.51	1902.49	1698.34	1476.25	1245.59	1016.80	799.87
320.00	2649.16	2635.91	2595.59	2526.68	2427.32	2296.19	2133.45	1941.59	1725.81	1493.94	1255.70	1021.56	801.29
325.00	2785.69	2769.97	2722.42	2642.12	2528.13	2380.32	2200.18	1991.48	1760.56	1516.05	1268.10	1027.18	802.74
330.00	2950.20	2931.39	2874.84	2780.40	2648.35	2480.07	2278.71	2049.67	1800.61	1541.11	1281.77	1033.02	803.85
335.00	3136.59	3114.13	3046.98	2935.96	2782.83	2590.83	2365.11	2112.91	1843.43	1567.28	1295.46	1038.28	804.17
340.00	3336.46	3309.91	3230.87	3101.33	2924.81	2706.71	2454.41	2177.23	1886.02	1592.38	1307.71	1042.06	803.20
345.00	3539.02	3508.08	3416.37	3267.16	3065.97	2820.55	2540.73	2238.01	1924.90	1613.98	1316.91	1043.40	800.41
350.00	3731.20	3695.84	3591.32	3422.33	3196.51	2924.08	2617.39	2290.11	1956.33	1629.50	1321.41	1041.30	795.25
355.00	3898.22	3858.65	3742.03	3554.46	3305.67	3008.36	2677.27	2328.13	1976.43	1636.31	1319.55	1034.79	787.23

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