

### Channel Study

REFERENCE		CH# 247C1- 97.3 MHz, Pwr= 40 kW, HAAT= 270.1 M, COR= 529 M								DISPLAY DATES	
39 05 26.0 N.		Average Protected F(50-50)= 60.9 km								DATA 03-21-17	
94 28 18.0 W.		73.215 Omni-directional								SEARCH 03-27-17	
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*
247C1 Lee's Summit	KLRX!	LIC	NC MO	0.0 0.0	0.00 BMLE20080102ABC	39 05 26.0 94 28 18.0	55.000 357	168.1 617	72.5 Educational Media Foundati	-231.0	-221.7
247C1 Lee's Summit	KLRX!	RSV-A	MO	259.3 79.2	10.93 RM10017	39 04 20.0 94 35 45.0	100.000 299	171.0 564	71.6 Educational Media Foundati	-219.8	-206.2
245L1 Kansas City	KLHW-LP	LIC	MO	129.6 309.6	6.97 BLL20170125AAA	39 03 02.0 94 24 34.0	0.026 42	309		-53.1*<	-6.1*<
249L1 Kansas City	KNIU-LP	LIC	KS	277.3 97.2	13.49 BLL20150911ADB	39 06 21.0 94 37 35.0	0.100	263		-48.2*<	0.4<
245D Olathe	K245CC!	LIC DC	KS	242.1 61.8	36.57 BLFT20160714ABJ	38 56 10.0 94 50 41.0	0.250	0.5 451	11.2 Bott Broadcasting Company	-24.1*<	18.1
300D Lees Summit	K300CH!	LIC C	MO	205.5 25.5	8.41 BLFT20140319AAC	39 01 20.0 94 30 49.0	0.099 349	78.0 621	65.0 Calvary Chapel Of Kansas C	22.0R	-13.6M
247C1 Springfield	KXUS<	LIC CN	MO	148.7 329.6	246.60 BLH19930405KE	37 11 10.0 93 01 23.0	100.000 177	159.4 607	61.9 Clear Channel Broadcasting	245.0R	1.6M
246A Warsaw	KAYQ<	LIC NC	MO	131.1 311.8	134.75 BMLH20121018AAW	38 17 19.0 93 18 32.0	4.500 73	33.8 316	22.5 Valkyrie Broadcasting, Inc	133.0R	1.8M
248A Nevada	KNMO-FM<	LIC CX	MO	175.0 355.1	134.97 BLH20021105AAM	37 52 45.0 94 20 15.0	6.000 86	44.0 330	28.4 Harbit Communications, Inc	133.0R	2.0M
248A Nevada	KNMO-FM<	RSV-A	MO	174.9 355.0	136.20 RM10017	37 52 06.0 94 20 01.0	6.000 100	46.8 346	30.4 Harbit Communications, Inc	133.0R	3.2M
249D Atchison	K249DT!	LIC C	KS	314.2 133.7	78.81 BLFT20150512ADB	39 34 56.0 95 07 52.0	0.170 74	0.9 360	12.9 Educational Media Foundati	15.8	58.2
246C3 Maryville	KVVL<	LIC CX	MO	343.8 163.5	150.61 BLH20021022ABC	40 23 31.0 94 58 04.0	21.500 108	56.8 425	36.5 Nodaway Broadcasting Corpo	144.0R	6.6M
245D Warrensburg	K245BO!	LIC C	MO	115.4 295.9	81.26 BLFT20140627ABV	38 46 28.0 93 37 35.0	0.250	1.1 321	12.5 Community Broadcasting, In	20.2	61.5
245A Effingham	KDVB<	LIC CX	KS	301.3 120.7	93.15 BLH20161121AEC	39 31 19.0 95 23 53.0	0.250 31	1.1 355	7.1 Cumulus Licensing Llc	75.0R	18.2M
247C3 Madison	KTCM^	LIC CX	MO	78.0 259.5	202.53 BLH20100610ACO	39 26 45.4 92 10 11.3	25.000 100	112.5 328	38.0 Alpha Media Licensee Llc	30.2	19.0
249C1 La Monte	KPOW-FM<	LIC CX	MO	91.9 272.7	104.34 BLH20021101ABG	39 03 10.0 93 16 01.0	100.000 299	9.9 520	71.5 Benne Broadcasting Of Seda	82.0R	22.3M
248C1 Junction City	KJCK-FM<	LIC C	KS	268.4 86.9	207.78 BMLH20070607ACD	39 00 53.0 96 52 12.0	100.000 192	94.4 557	63.7 Eagle Communications, Inc.	177.0R	30.8M

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= - Zone 2, Co to 3rd adjacent.

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.

< = Contour Overlap

^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

Reference station has protected zone issue: AM tower

KLRX CH 247 C1 73.215 N  
Lat= 39 05 26.0, Lng= 94 28 18.0  
40.0 kW 270.1 m HAAT, 529 m COR  
Prot.= 60 dBu, Intef.= 40 dBu

KTCM^ CH 247 C3 BLH20100610ACO  
Lat= 39 26 45.4, Lng= 92 10 11.3  
Max CIs: 25.0 kW 100 m HAAT, 328.3 m COR  
Prot.= 60 dBu, Intef.= 40 dBu

