

KXTJ-LP/KAJA Second-Adjacent Waiver Request

Application requests a waiver for a location which is short-spaced on a second-adjacent channel with BMLH-20010412AAK, callsign KAJA, class C0, status LIC, San Antonio, TX, channel 247, facility ID 11919[3]

Undesired-to-Desired Ratio Method	
BMLH-20010412AAK f(50,50) signal	102.820 dBu [1][2]
Second-adjacent protection	+ 40 dB
Interference-zone boundary	142.82 dBu
Distance to 142.82 dBu	5.1 m (ERP <= 0.1 kW) [1]

The worst-case interference zone is a sphere of radius 5.1 meters, shown projected on the ground in the following map.



With the radiation center at 14 meters AGL, interference will stop at 5 meters below the antenna or 9 meters AGL. The heads of people in the single-story ground-level residence at 2 meters AGL are well below 9 meters thus no population will be subject to interference from the proposed station according to the undesired-to-desired ratio method.

[1] tvfmfs() Fortran subroutine as distributed by the FCC. At distances less than or equal to 1.5 km, tvfmfs() uses the free-space method.

[2] FCC HAAT Calculator web page,
http://transition.fcc.gov/mb/audio/bickel/haat_calculator.html

[3] CDBS database downloaded 2019-02-19 04:00:00