

Exhibit 13 A - 47 CFR 74.1204 W291CZ protection of WMJZ and WROR-FM



WMJX

Boston, MA
BLH19911018KC
Channel: 294B
Latitude: 42-20-50 N
Longitude: 071-04-59 W
ERP: 21.50 kW
HAAT 235.0 m
Frequency: 106.7 MHz
AMSL Height: 258.0 m
Elevation: 3.0 m
Horiz. Pattern: Omni

WROR-FM

Framingham, MA
BLH20000223AAP
Channel: 289B
Latitude: 42-20-50 N
Longitude: 071-04-59 W
ERP: 23.00 kW
HAAT 224.0 m
Frequency: 105.7 MHz
AMSL Height: 247.0 m
Elevation: 3.0 m
Horiz. Pattern: Omni

Boston

W291CZ.A

Boston, MA

Channel: 291D
Latitude: 42-20-57 N
Longitude: 071-04-31 W
ERP: 0.099 kW
HAAT 234.0 m
Frequency: 106.1 MHz
AMSL Height: 253.0 m
Elevation: 3.0 m
Horiz. Pattern: Directional
Study Date: 3/27/2018

WMJX
WROR-FM

123.6 dBu

W291CZ.A

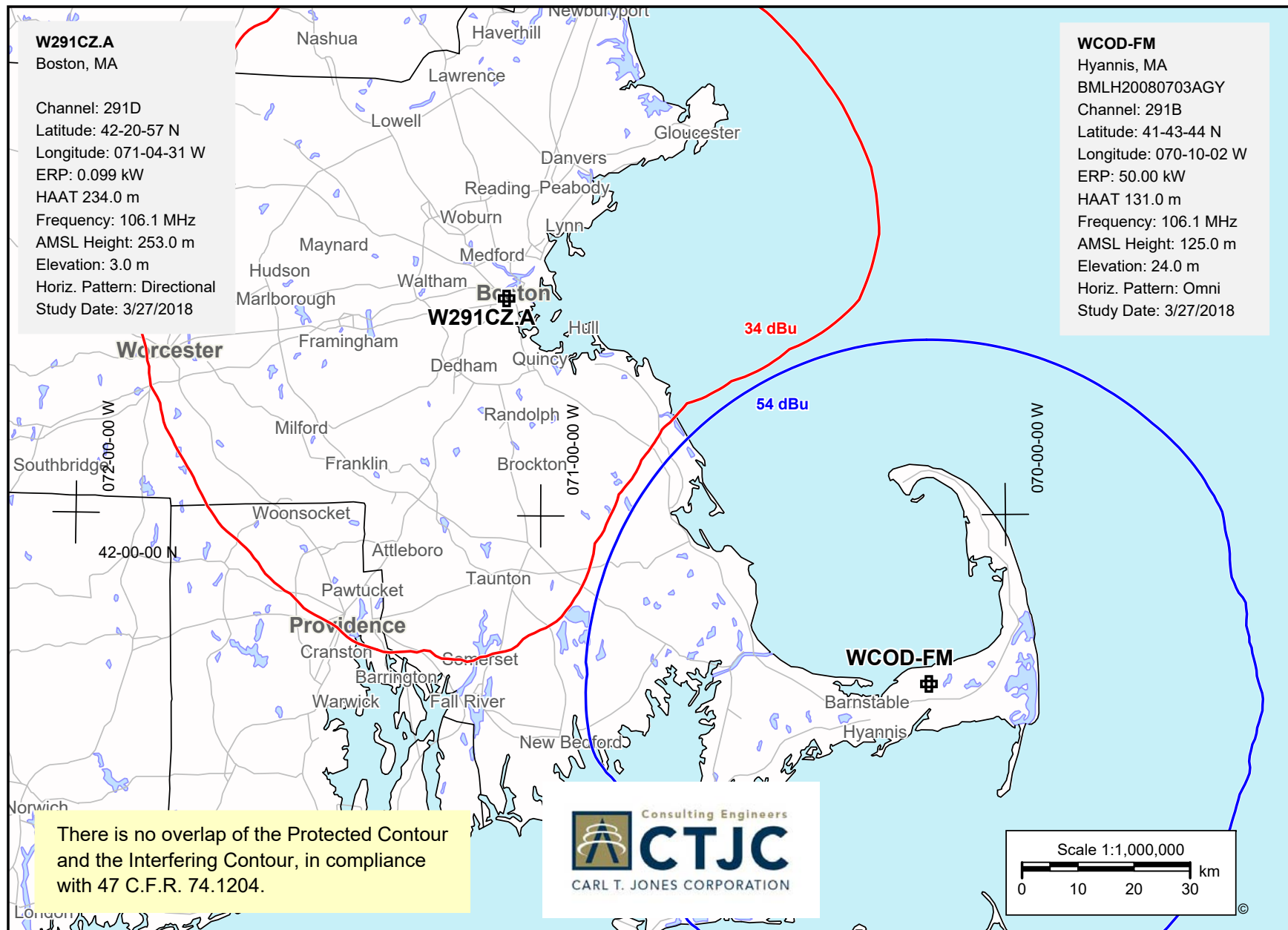
Desired to Undesired Signal Analysis

WMJX 294B Boston, MA and WROR-FM 289B are located 0.67 km from W291CZ. They place a signal strength of 123.6 dBu at the W291CZ antenna site. The interfering signal level is 163.64 dBu. That signal will not extend more than 0.46 meters from the antenna, so no interference will occur.

Scale 1:25,000

0 0.33 0.67 1.0 km

Exhibit 13 B - 47 CFR 74.1204 W291CZ and WCOD-FM



A horizontal scale bar with a black background and white tick marks. The bar is labeled with the numbers 0, 10, 20, and 30 in white. The unit 'km' is written in black at the right end of the bar. The bar is divided into four equal segments by the tick marks at 10, 20, and 30.

Exhibit 13 D - 47 CFR 74.1204 W291CZ - W291DA, W291CC and W291DB



W291DA

Fitchburg, MA
BLFT20171109ACQ
Channel: 291D
Latitude: 42-35-23 N
Longitude: 071-49-42 W
ERP: 0.25 kW
HAAT 0.0 m
Frequency: 106.1 MHz
AMSL Height: 338.0 m
Elevation: 259.0 m
Horiz. Pattern: Directional
Study Date: 3/27/2018

W291DB

Worcester, MA
BLFT20171023ABC
Channel: 291D
Latitude: 42-13-28 N
Longitude: 071-52-51 W
ERP: 0.045 kW
HAAT 0.0 m
Frequency: 106.1 MHz
AMSL Height: 355.0 m
Elevation: 259.0 m
Horiz. Pattern: Directional
Study Date: 3/27/2018

W291CC

Newburyport, MA
BLFT20170908AAI
Channel: 291D
Latitude: 42-51-56 N
Longitude: 070-56-17 W
ERP: 0.09 kW
HAAT 0.0 m
Frequency: 106.1 MHz
AMSL Height: 119.0 m
Elevation: 99.0 m
Horiz. Pattern: Directional
Study Date: 3/27/2018

W291CZ.A

Boston, MA
Channel: 291D
Latitude: 42-20-57 N
Longitude: 071-04-31 W
ERP: 0.099 kW
HAAT 234.0 m
Frequency: 106.1 MHz
AMSL Height: 253.0 m
Elevation: 3.0 m
Horiz. Pattern: Directional
Study Date: 3/27/2018

There is no overlap of the Protected Contour and the Interfering Contour, in compliance with 47 C.F.R. 74.1204.

