



**LPFM-1**  
43W@46m HAAT 90.6m AGL  
107.5 MHz ch 298  
Springfield, MA, US  
19.2m elevation  
**NAD83:** 42 6 5.34 N,  
72 35 23.32 W

**Details for Frequency 107.5 MHz (298)**

Sort-by: Severity

Show: Selected Stations

Apply

Clear-Signal Distance (km)

FCC Contour Interference dB

Nearby Station	Too Close?	Where	Channel	FCC Contour	Longley-Rice	In	Out
<b>WKVB:aux.297B.LICEN.L2C</b> 74467 ENTERCOM LICENSE, LLC 107.3 MHz 15kW@239m WESTBOROUGH, MA, US (LMS)BXLH-20150512ACH GRA	Too close by 35.58km	61.4km@ 68° 97km needed	297	10.3	38.4	-8.2	-15.5
<b>WCCC:aux.295B.LICEN.MOD</b> 25072 MARLIN BROADCASTING OF HARTFORD, LLC 106.9 MHz 22kW@221m HARTFORD, CT, US (LMS)BXMLH-20050311ADG GRA	Too close by 29.05km	38km@ 207° 67km needed	295	31.3	23.9	-26.4	()
<b>WCCC.295B.LICEN.MOD</b> 25072 EDUCATIONAL MEDIA FOUNDATION 106.9 MHz 23kW@221m HARTFORD, CT, US (LMS)BMLED-20140930ACT GRA	Too close by 29.03km	38km@ 207° 67km needed	295	30.8	22.5	-26.1	()
<b>WACC-LP.299LP100.LICEN.MOD</b> 127007 ASNUNTUCK COMMUNITY COLLEGE 107.7 MHz 100W@12m ENFIELD, CT, US (LMS)BMMLL-20130620ABE GRA	Far enough away by 0.23km	14.2km@ 178° 14km needed	299	8.7	6.5	6.0	6.1
<b>WLHZ-LP.300LP100.LICEN.L2C</b> 134242 PENTECOSTAL CHURCH REFUGE OF SALVATION 107.9 MHz 7W@111.998m SPRINGFIELD, MA, US (LMS)BLL-20080311ADM GRA	Far enough away by 3.41km	9.7km@ 304° 6.3km needed	300	66.7	41.2	-33.6	-30.8
<b>W297BT.297D.LICEN.L2C</b> 138550 TRIGNITION MEDIA, LLC 107.3 MHz 990W@133.667m NEW BRITAIN, CT, US (LMS)BLFT-20180522AAI GRA	Far enough away by 9.87km	37.9km@ 191° 28km needed	297	6.9	6.4	0.5	-7.4

Alternate Format

A single antenna bay will be mounted on ASRN 1045611 at 46m Above the ground with 43 watts. All FCC Margin separations are met.

## Environmental

The result for Maximum Permissible Exposure is 0.14% less than 5.0% as required by FCC

### **RF Worksheet #1 – FM (including translators & boosters)**

**PLEASE COPY BEFORE USING. THE DETERMINATION OF COMPLIANCE MAY INVOLVE REPEATED CALCULATIONS. IF LOCATED ON A MULTIPLE FM USER TOWER, PLEASE COMPLETE RF WORKSHEET 1A BEFORE PROCEEDING.**

#### **EFFECTIVE RADIATION CENTER HEIGHT**

Enter proposed "height of radiation center above ground" OR as listed in Line 1 46 m (1)  
of Worksheet 1A.

Is antenna supporting structure located on the roof of a building? (check one)

☐ Yes ☒ No (2)

If Line 2 is "Yes" enter the building height measured at the base of the antenna supporting structure in Line 3

If Line 2 is "No" enter "0" in Line 3..... 0 m (3)

Subtract Line (3) from Line (1)..... 46 m (4)

Subtract the value 2.0 from Line (4)..... 44 m (5)

#### **TOTAL EFFECTIVE RADIATED POWER**

(If "beam tilt" is utilized, list maximum values)

List Effective Radiated Power in the Horizontal Plane..... 0.043 kW (6)

List Effective Radiated Power in the Vertical Plane..... 0.043 kW (7)

Add Lines (6) and (7) OR list value from Line 2 in Worksheet 1A..... 0.086 kW (8)

#### **PERCENTAGE OF FCC RF LIMIT(S) FOR MAXIMUM PERMISSIBLE EXPOSURE**

Multiply Line (8) by 33.41 ..... 2.873 (9)

Multiply the value listed in Line (5) by itself..... 1.936 (10)

Divide Line (9) by Line (10) ..... 0.0014 (11)

Multiply Line (11) by (100) ..... 0.14% (12)

#### **DETERMINATION OF COMPLIANCE WITH CONTROLLED/OCCUPATIONAL LIMIT**

Does Line (12) exceed 100%..... ☐ Yes ☒ No (13)

**IF YOU ANSWERED "YES" IN LINE (13), THE WORKSHEETS MAY NOT BE USED IN THIS CASE.\***