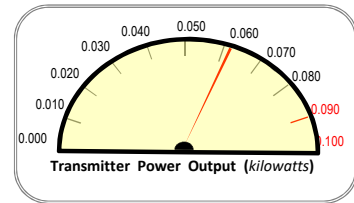


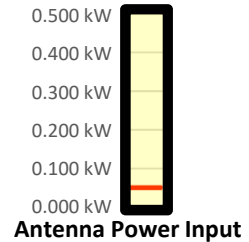
# Transmitter Power Output Worksheet

Call letters: W262CL.C  
 City of License: Brattleboro, VT  
 Channel: CH262D (100.3 MHz)  
 File No: BMPFT-20180404AAO  
 Facility ID: 140890  
 Applicant: Saga Communications of New England, LLC



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Kathrein Inc., Scala Division (SCA)  
 Antenna Model: CL-FM(Vertical Only)-1DA  
 No of Elements: One (1)  
 Antenna COR AGL: 17 meters AGL  
 Antenna COR AMSL: 594 meters AMSL  
 Max Input Power: 0.50 kW



Power Gain: 5.02

Antenna Gain: 7.0 dBd

Calculated Antenna Input Power: 0.050 kW

Transmitter Rated Power: 0.100 kW

Power Gain to Antenna gain (dBd) Conversion:  
 $=\text{Log}[\text{power gain}] * 10$

## Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
1/2" Foam Feedline	Heliac LDF4-50A	(0.662 dB/100 ft)	58 ft	-0.384 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Band Pass Filter	Shively Model 2916 (or equivalent)		n/a	-0.600 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper to Transmitter	FSJ4-50B (Superflex)	(1.040 dB/100 ft)	3 ft	-0.031 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

**TOTAL SYSTEM GAIN/LOSS:** 5.91 dBd  
**CALCULATED TRANSMITTER POWER OUTPUT:** 0.064 kW  
 (1 / [[10<sup>^</sup>(dB/10)/ERP]] )