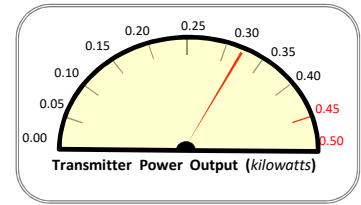


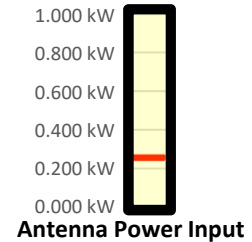
Transmitter Power Output Worksheet

Call letters: W272DZ.C
 City of License: Keene, NH
 Channel: CH272D (102.3 MHz)
 File No: BMPFT-20180711AAH
 Facility ID: 201372
 Applicant: Saga Communications of New England, LLC



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)
 Antenna Model: BKG1/P-1DA(Horizontal Only)
 No of Elements: One (1)
 Antenna COR AGL: 21 meters AGL
 Antenna COR AMSL: 423 meters AMSL
 Max Input Power: 1.00 kW



Power Gain: 1.0

Antenna Gain: 0.000 dBd

Calculated Antenna Input Power: 0.250 kW

Transmitter Rated Power: 0.500 kW

Transmitter Make/Model: GatesAir FAX 500

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	Heliax LDF4-50A	(0.688 dB/100 ft)	93 ft	-0.640 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper to Filter	FSJ4-50B (Superflex)	(1.081 dB/100 ft)	3 ft	-0.032 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
External Band-Pass Filter	Shively Model 2914-2		n/a	-0.473 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper to Transmitter	FSJ4-50B (Superflex)	(1.081 dB/100 ft)	3 ft	-0.032 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -1.28 dBd

CALCULATED TRANSMITTER POWER OUTPUT: 0.336 kW

$(1 / [10^{(1.28/10)} / \text{ERP}])$