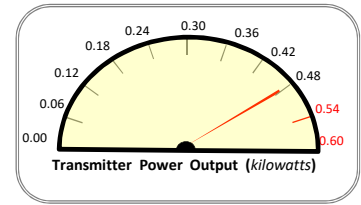


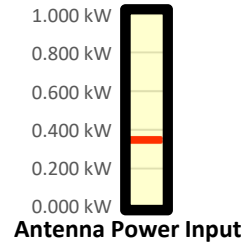
Transmitter Power Output Worksheet

Call letters: W248CB.C
 City of License: Augusta, ME
 Channel: CH248D (97.5 MHz)
 File No: BPFT-20180301AAN
 Facility ID: 139794
 Applicant: Bible Broadcasting Network, Inc.



Effective Radiated Power (ERP): 0.170 kW

Antenna Make: Nicom USA, Inc. (NIC)
 Antenna Model: BKG1/P-1DA(Slant45)
 No of Elements: One (1)
 Antenna COR AGL: 45 meters AGL
 Antenna COR AMSL: 74 meters AMSL
 Max Input Power: 1.00 kW



Power Gain: 0 dBd - 3 dBd = (-3 dBd) due to (H&V) Configuration

Antenna Gain: -3.000 dBd

Calculated Antenna Input Power: 0.339 kW

Transmitter Rated Power: 0.600 kW

Transmitter Make/Model: Crown 600-R

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 (Tower)	Heliax LDF4-50A (0.661 dB/100 ft)	145 ft	-0.958 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
AM Isocoupler	Kintronics FMC-1.5 Isolation Transformer	n/a	-0.200 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
1/2" Foam Feedline (Ground)	Heliax LDF4-50A (0.661 dB/100 ft)	25 ft	-0.165 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
External Filter	Shively Model 2912-04 Notch Filter	n/a	-0.150 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Jumper to Transmitter	LMR-400 (1.300 dB/100 ft)	6 ft	-0.078 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -4.67 dBd

CALCULATED TRANSMITTER POWER OUTPUT: 0.498 kW

$(1 / [10^{(dB/10)/ERP}])$