

Transmitter Power Output Worksheet

Call letters: W275CL.C
City of License: Charlottesville, VA
Channel: CH275D (102.9 MHz)
File No: BMPFT-20170410ACL
Facility ID: 141162
Applicant: Saga Communications of Charlottesville, LLC

Effective Radiated Power (ERP): 0.120 kW

Antenna Make: Kathrein Scala (SCA)
Antenna Model: CL-FM-1DA(Slant45)
No of Elements: one (1)
Antenna COR AGL: 41 meters AGL
Antenna COR AMSL: 475 meters AMSL
Max Input Power: 0.50 kW

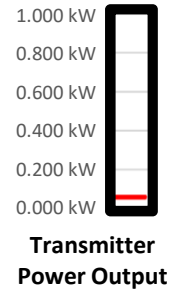
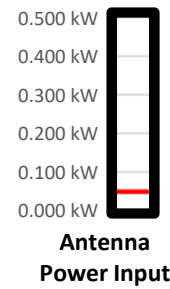
Power Gain: 7 dBd - 3 dBd = (4 dBd) due to (H&V) Configuration

Antenna Gain: 4.000 dBd

Calculated Antenna Input Power: 0.048 kW

Transmitter Rated Power: 1.000 kW

Transmitter Make/Model: GatesAir FAX1K



Power Gain to Antenna gain (dBd) Conversion:
=Log[power gain]*10

Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
7/8 Inch End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper To Antenna	Andrew FSJ4-50B	(1.054 dB/100 ft)	3 ft	-0.032 dBd
7/8 Inch End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
7/8 Inch Foam Feedline	Cablewave LCF78-50JA	(0.358 dB/100 ft)	163 ft	-0.584 dBd
7/8 Inch End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper to Transmitter	Andrew FSJ4-50B	(1.054 dB/100 ft)	3 ft	-0.032 dBd
7/8 Inch End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: 3.25 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.057 kW
(1 / [[10^(dB/10)/ERP]])