

Question:

Thanks for clarify the antenna gain. P 33 of test report indicates that measured maximum conducted power is 1.29W. However, the info provided in Product Spec and Operational Description does not match the measurement number. See analysis below

DC voltage into final stage: 10.5V

DC current into final amp stage: 1.2A

DC power consumption in final stage: 12.6W

RF output power per spec: $125\text{mW} \times 4 = .5\text{W}$ (efficient 4%?)

RF output power per measurement: $1.29\text{W} \times 4 = 5.16\text{W}$ (efficient 41%)

Please clarify the conflict between operational description and measurement data and make necessary change.

To speed up the process, I am working on the grant condition now and will issue the grant on the same day when you clear the above document conflict.

Answer:

There is a description about the power in the section of EIRP in P10 of the operational/circuit description. We provide its description as below here.

DC voltage into final stage: 10.5V

DC current into final amp stage: 1.2A

DC power consumption in final stage (total of 4 amps): 50.4W

RF output power per spec: Average 125mW (peak 1W) $\times 4 =$ average 0.5W (peak 4W) (efficient 7.9%)

RF output power per measurement: $1.29\text{W} \times 4 = 5.16\text{W}$ (efficient 10.2%)

There is a slight conflict between operational description and the measurement data, but it is not so big as 4% and 41%.

Now we believe that there is no conflict in the documents.