

## **LIST OF FM and TV STATIONS OPERATING IN RWANDA AND THEIR APPROXIMATE COVERAGE.**

Section 1 summarizes the radio stations approximate coverage in percentage and section 2 shows approximation coverage on maps as of 5<sup>th</sup> May 2020.

### **1. Radio Stations (Categorized based on covered area)**

<b>Station Name</b>	<b>Number of Transmitters</b>	<b>Approximate covered area</b>	<b>Transmitting station, site and frequency</b>
RBA (Radio Rwanda and its community radios (CR))	28	98% See image 1	Radio Rwanda, Jari, 100.7 MHz Radio Rwanda, Rebero, 104.7 MHz Radio Rwanda, Huye, 103.9 MHz Radio Rwanda, Karisimbi, 88.0 MHz Radio Rwanda, Rushaki, 90.1 MHz Radio Rwanda, Gitwe, 92.4MHz Radio Rwanda, Kinanira, 92.9MHz Radio Rwanda, Nyarupfubire, 93.5 MHz Radio Rwanda, Rubona, 94.6 MHz Radio Rwanda, Mugogo, 95.1 MHz Radio Rwanda, karongi, 97.6MHz Radio Rwanda, Nyabitimbo, 100.4 MHz Radio Rwanda, Rucamatako, 101.1 MHz Radio Rwanda, Gatwaro, 101.1 MHz Radio Rwanda, Byumba, 103.2 MHz Radio Rwanda, Gihundwe, 105.7 MHz Radio Rwanda, Rushaki, 106.8 MHz Radio Rwanda, Kiyanzi 99.3 MHz Radio Rwanda, Kabuye 92.4MHz Radio Rwanda Inteko, Jari, 101.5 MHz RBA CR Huye, Huye, 100.4 MHz RBA CR Musanze, Mugogo, 98.4MHz RBA CR Nyagatare, Nyarupfubire, 95.5 MHz RBA CR Rubavu, Rubona, 95.1 MHz RBA CR Rusizi, Nyabitimbo, 96.1MHz RBA CR Rusizi, Gihundwe 89.8MHz RBA CR Rusizi, Karongi, 106.9 MHz RBA Magic FM, Jari, 90.7MHz
Radio Maria	5	80% See Image 2	Radio Maria, Huye, 88.6MHz Radio Maria, Jari, 97.3 MHz Radio Maria, Gihundwe, 99.4 MHz Radio Maria, Karongi, 99.8 MHz Radio Maria, Byumba 96.4MHz
KT Radio	5	80% See Image 3	KT Radio, Jari 96.7MHz KT radio, Mugogo 101.1MHz KT Radio, Karongi 103.3MHz KT Radio, Huye 107.9 MHz KT Radio, Nyarupfubire 107.9 MHz
BBC	3	75% See Image 4	BBC, Karongi 93.3MHz BBC, Jari 93.9MHz BBC, Huye 106.1MHz

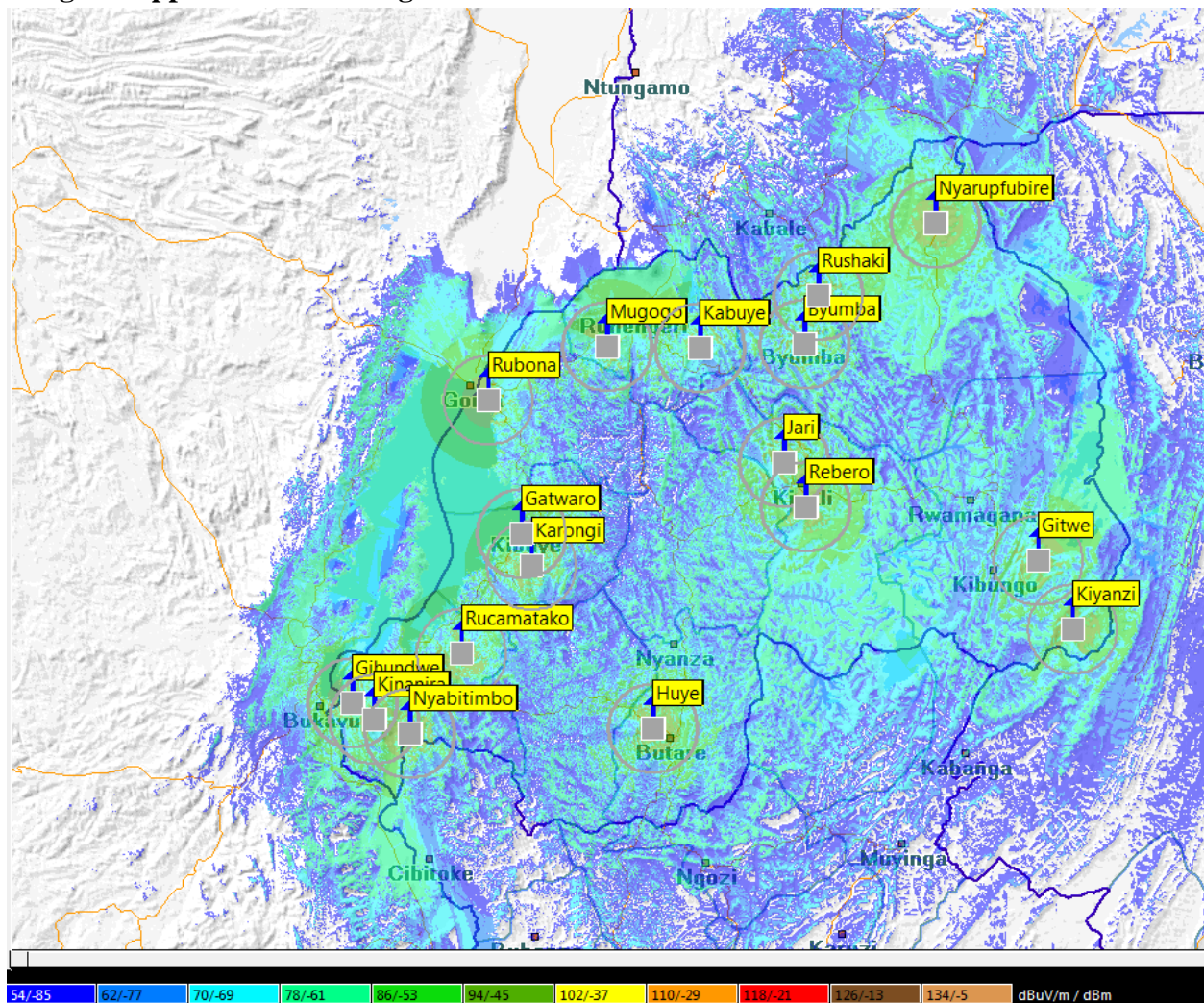
Station Name	Number of Transmitters	Approximate covered area	Transmitting station, site and frequency
Radio10	3	70% see image 5	Radio10, Jari 87.6 MHz Radio10, Rubavu 93.6 MHz Radio10, Nyarupfubire 99 MHz
Radio Flash FM	3	70% See Image 6	Flash FM, Jari, 89.2 MHz Flash FM, Nyarupfubire, 90.4MHz Flash FM, Karongi, 95.7 MHz
Radio Salus	2	65% See Image 7	Salus Radio, Jari, 101.9 MHz Salus Radio, Huye, 97 MHz
<ul style="list-style-type: none"> <li>- City Radio</li> <li>- Isango star</li> <li>- K-FM</li> <li>- Radio Huguka</li> <li>- Radio one</li> <li>- Royal FM</li> <li>- KISS FM</li> <li>- Authentic radio</li> <li>- Conseil Protestant radio</li> <li>- Voice of Africa</li> <li>- Voice of Hope</li> <li>- Radio Umucyo</li> <li>- Voice of America</li> <li>- RFI Radio</li> <li>- Hobe Rwanda radio(Fine FM)</li> <li>- ADEPR radio</li> <li>- Sana Radio</li> <li>- vision Radio</li> </ul>	1	60 % See image 8	City Radio Jari 88.3 MHz Isango star Jari 91.5MHz K-FM Rebero, 98.7 MHz Radio10 Jari 87.6 MHz Radio Huguka, Jari 105.9 MHz Radio one Jari 91.1MHz Royal FM Jari 94.3 MHz Kiss FM Jari 102.3 MHz Authentic radio Jari 92.8MHz  Conseil Protestant Jari 107.1 MHz Voice of Africa Jari 94.7 MHz Voice of Hope Jari 106.4 MHz Radio Umucyo Jari 102.8 MHz Voice of America Jari, 104.3 MHz RFI Radio Jari 91.9 MHz Hope Rwanda radio (Fine FM), Jari 93.1MHz ADEPR radio 96MHz Sana Radio 98MHz  104.1FM
Top 5 SAI Ltd radio (Energy radio)	1	30% operating at Musanze. See Image 9	Mugogo site, FM frequency 88.8 MHz
<ul style="list-style-type: none"> <li>- Isangano Community Radio</li> <li>- Ishingiro Community Radio</li> <li>- Radio Izuba Community Radio</li> </ul>		15%. See Images 10, 11 and 12	Isangano CR, Karongi, 89.4 MHz  Ishingiro CR, Byumba, 107.5 MHz  Radio Izuba CR, Kibungo, 100.0 MHz

## 2. The coverage of radio stations on maps

The coverage analysis was done using technical parameters assigned in their licenses. Below are the parameters assigned;

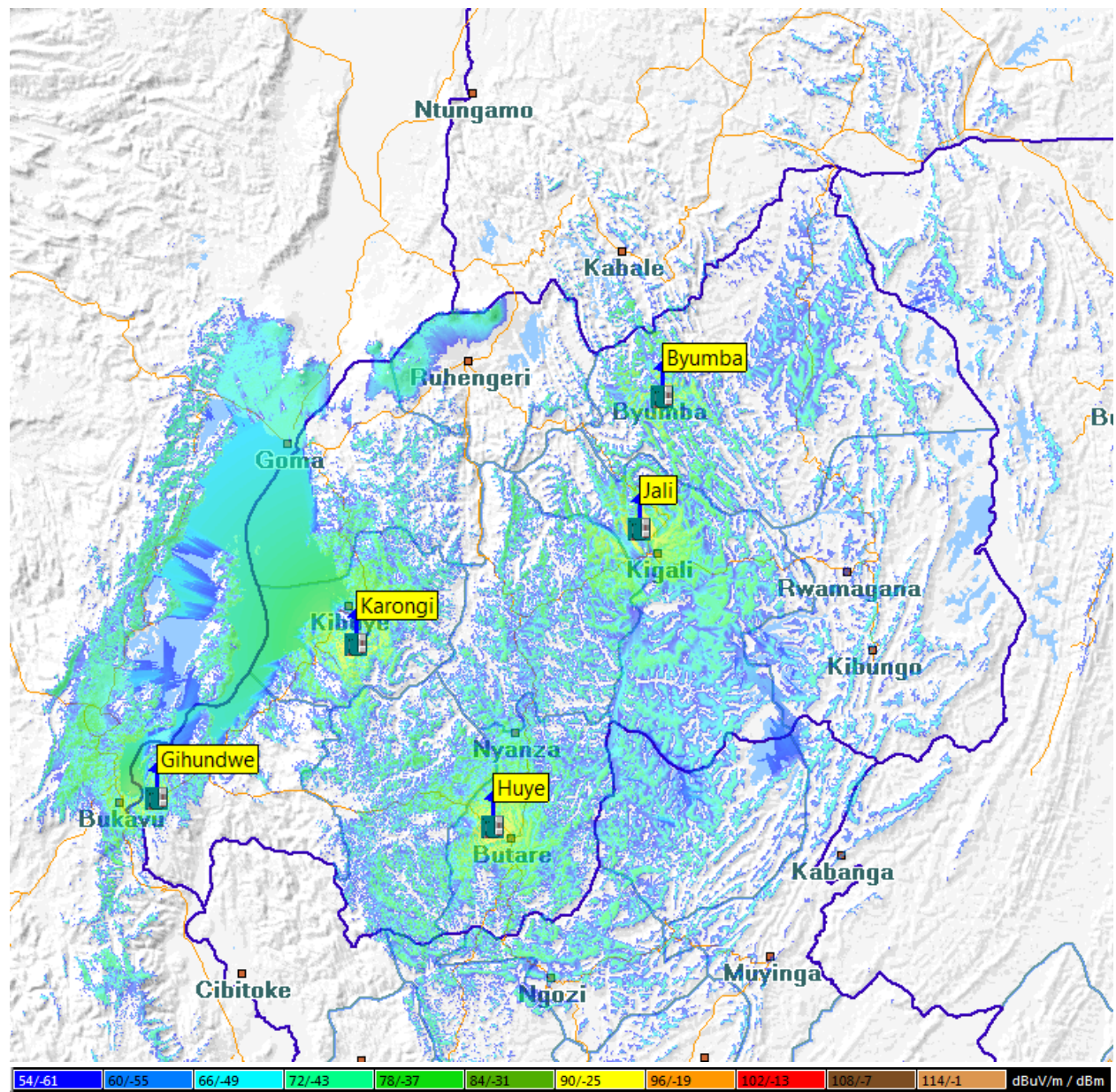
- Antenna height above ground level: 50m
- Signal type: FM Stereo for Radio
- Transmitter power: 1KW
- Antenna gain: 8dBi
- Propagation model: Fresnel method

**Image 1: Approximate coverage of Radio Rwanda**



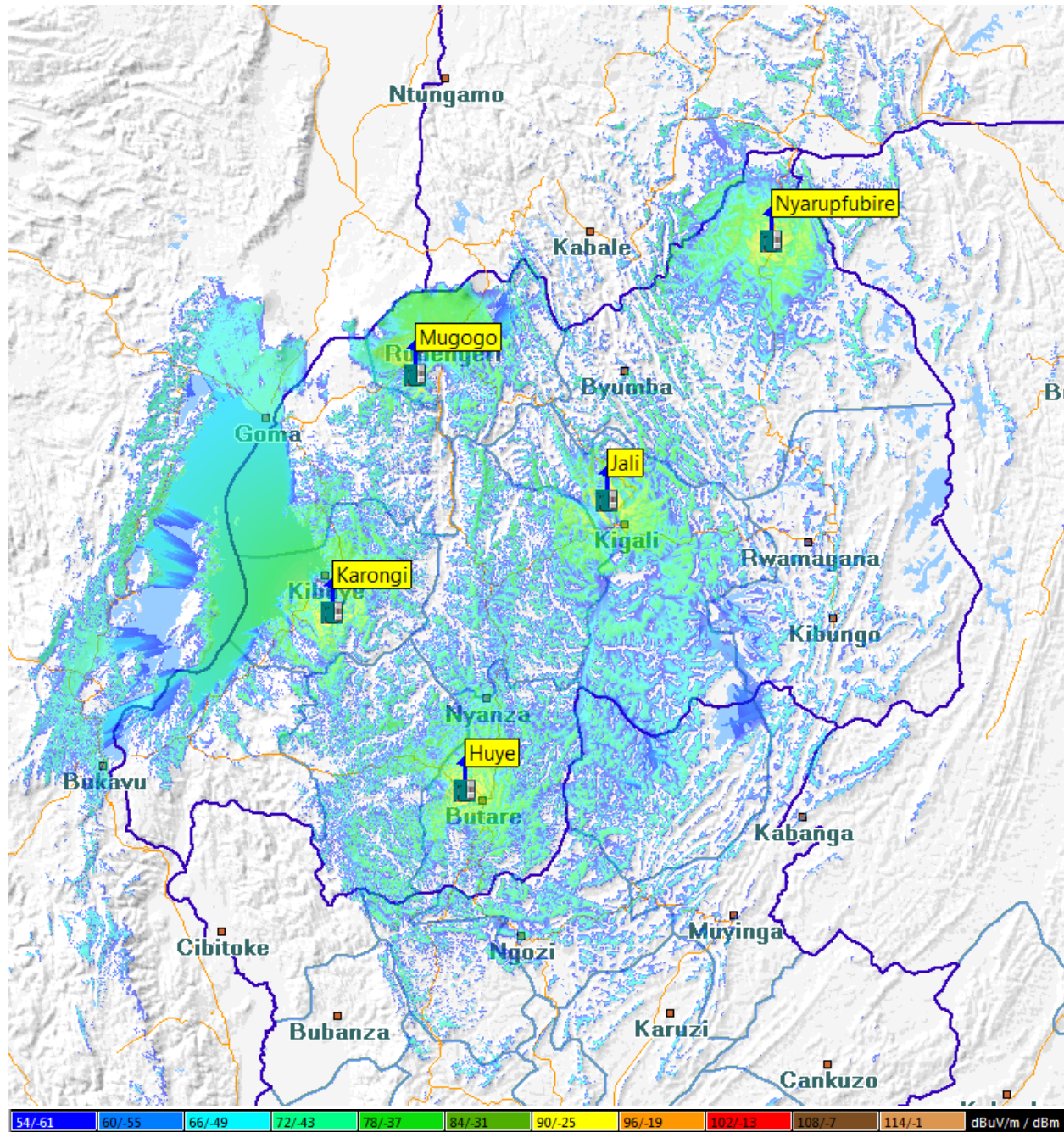


**Image 2: Approximate coverage of Radio Maria**

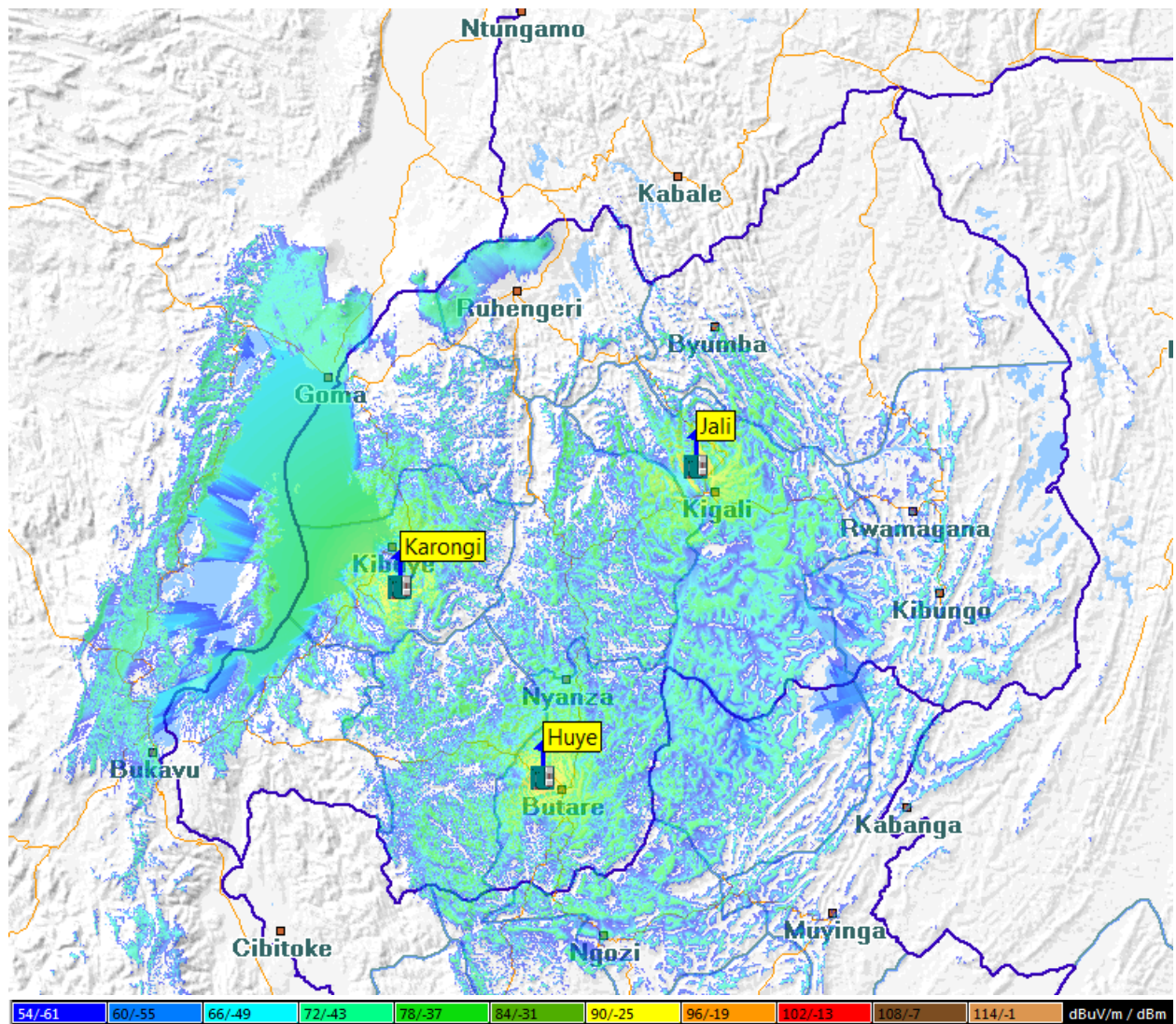




**Image3: Approximate coverage of KT Radio**

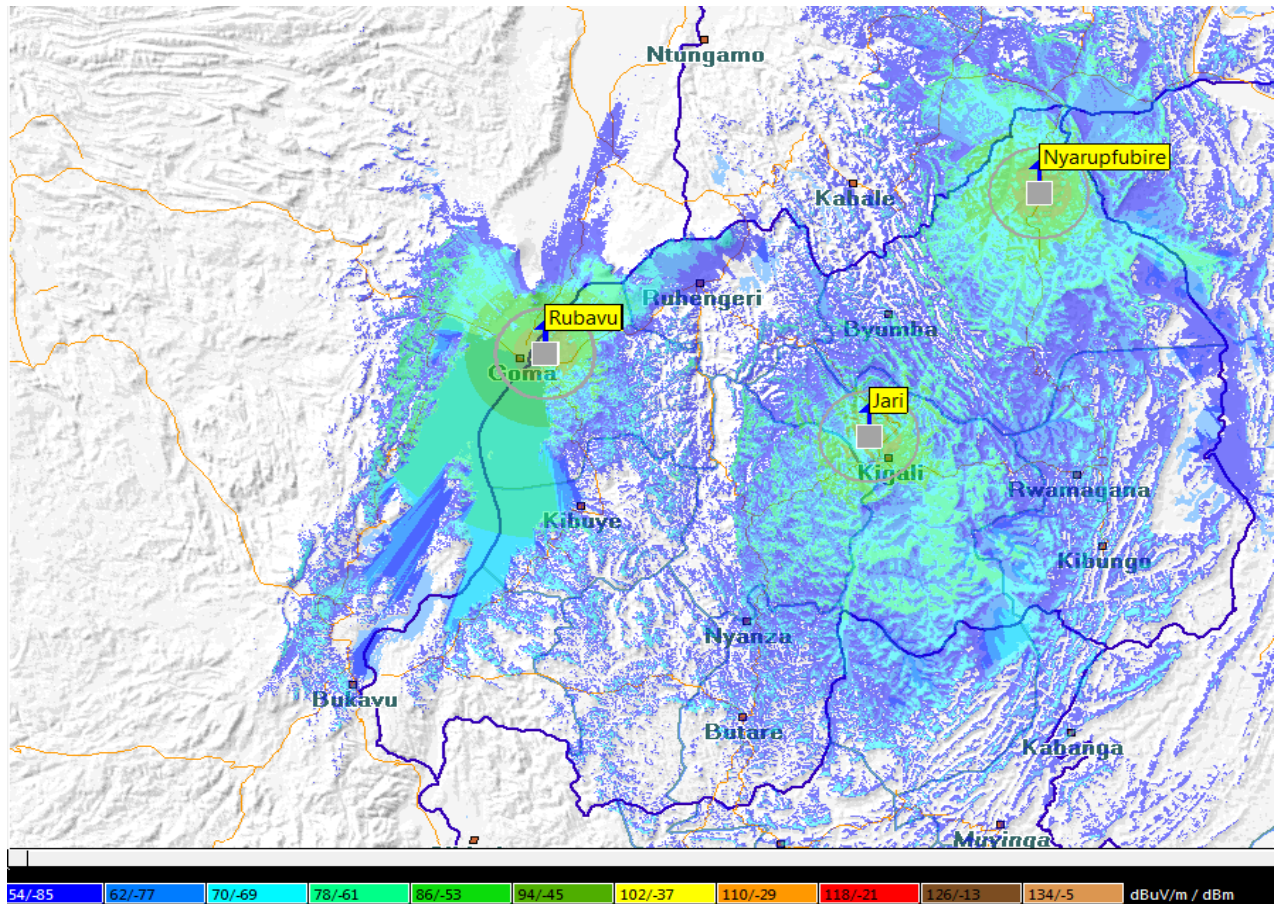


**Image4: Approximate coverage of BBC Radio**

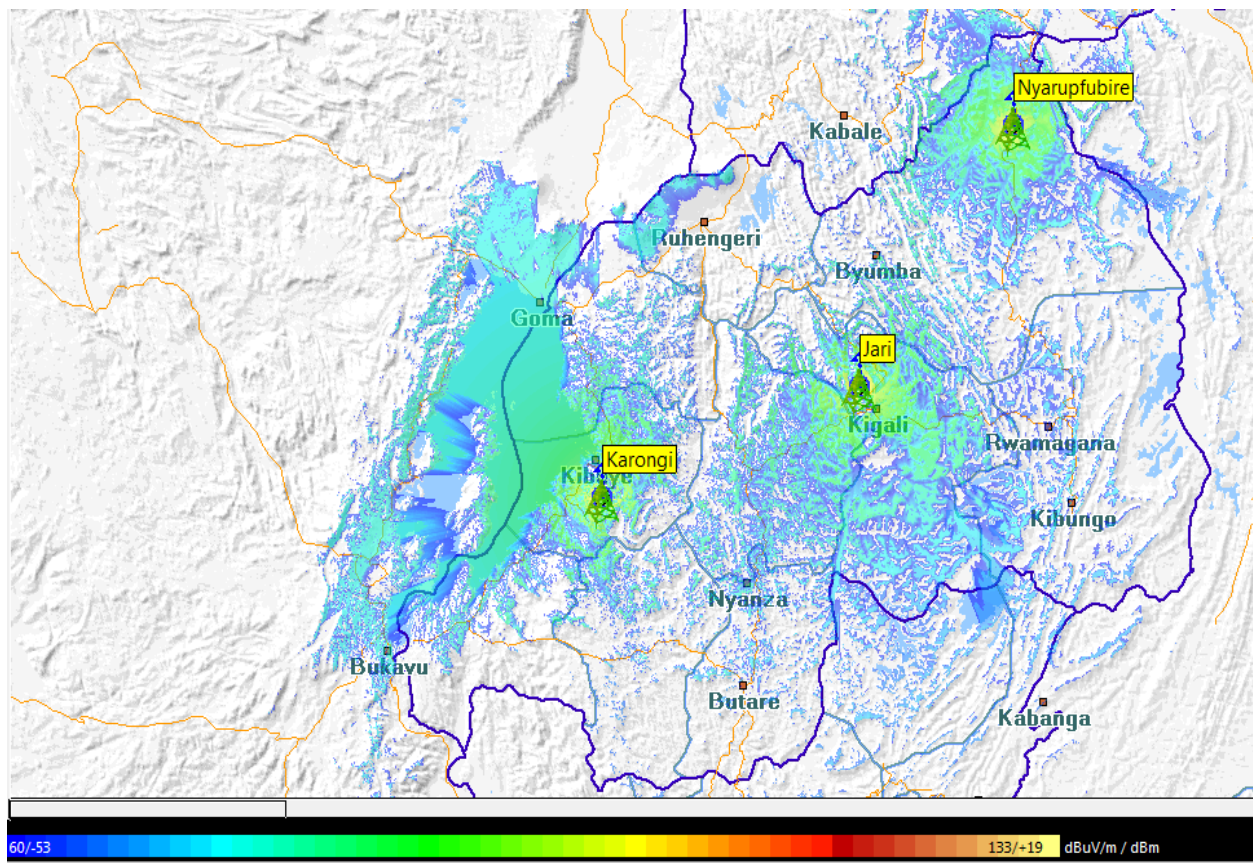




**Image 5: Approximate coverage of Radio10 FM**

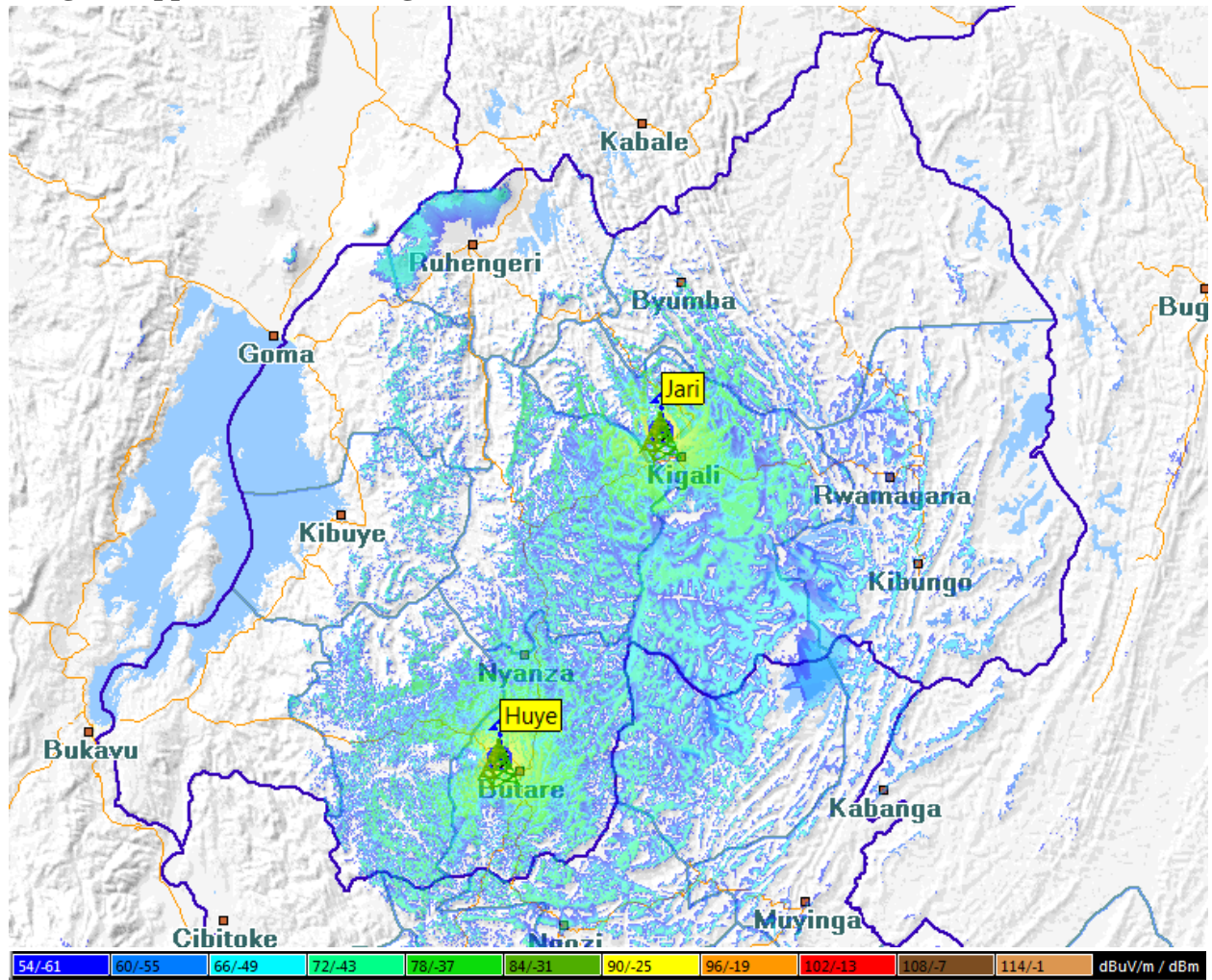


**Image6: Approximate coverage of Radio Flash FM**



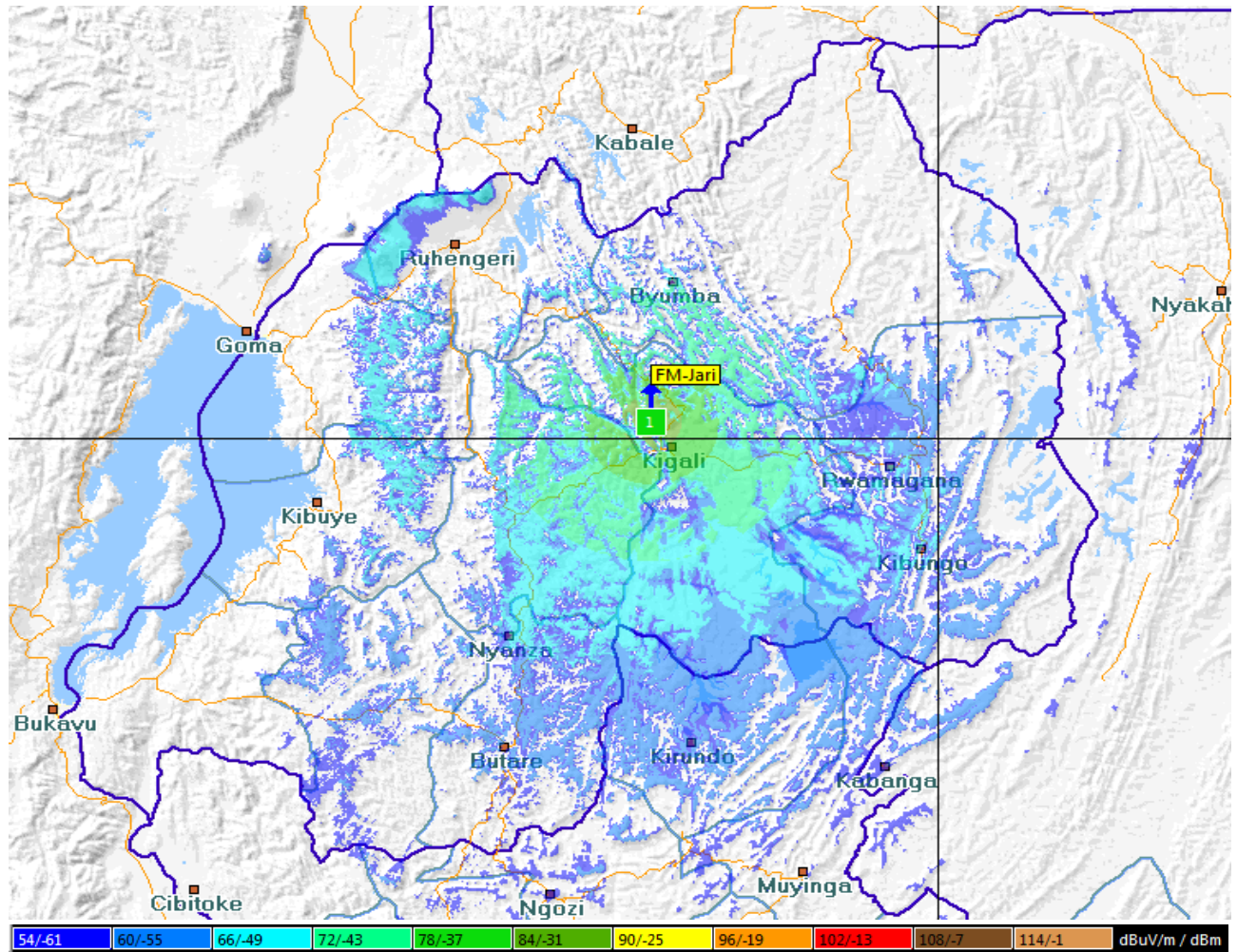


**Image 7: Approximate coverage of Salus Radio**



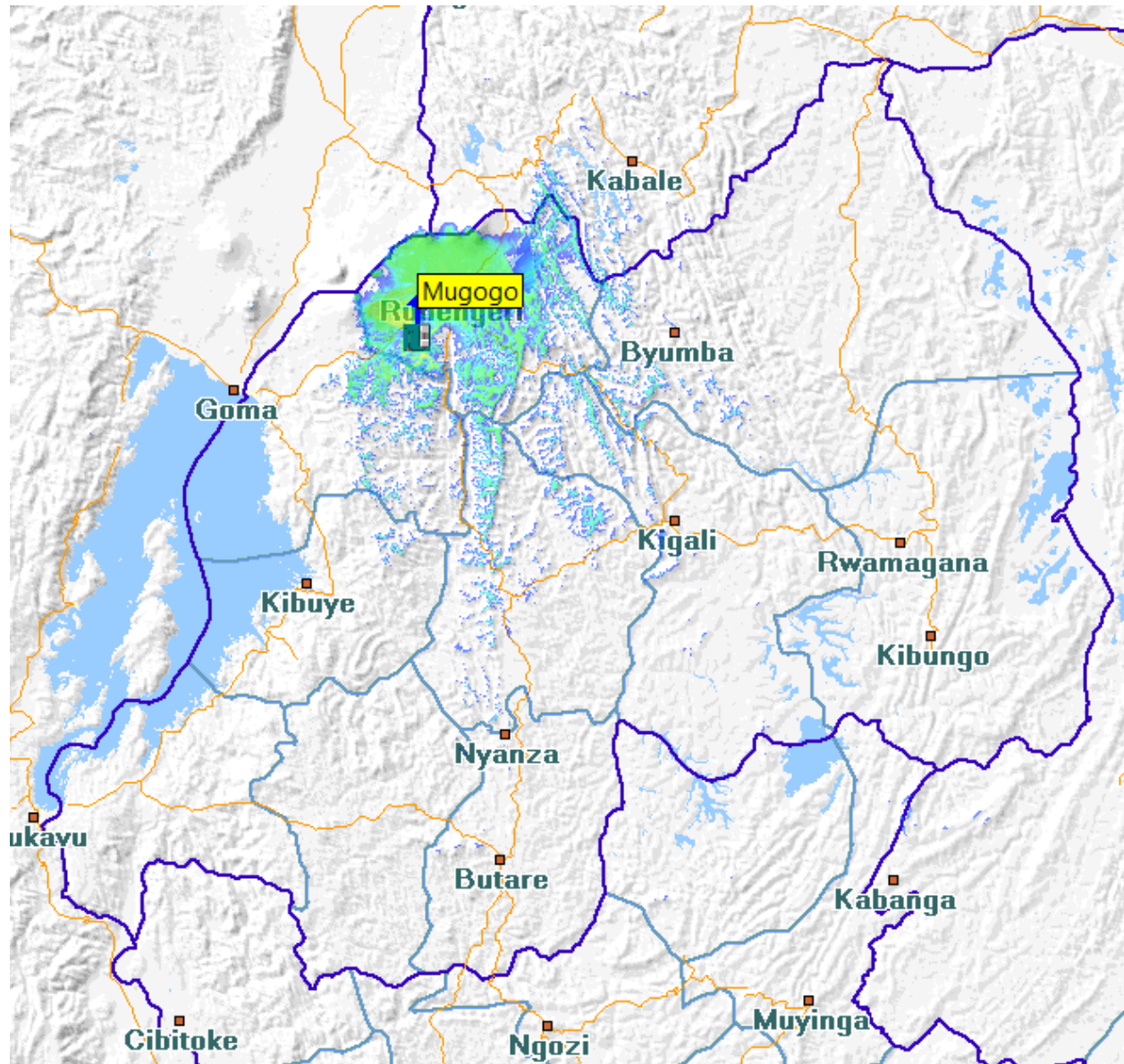
**Image 8: Approximate coverage of FM stations with one transmitter in Kigali (Jari site)**

(City Radio, Isango star, K-FM, Huguka Radio, Radio one, Authentic radio, Conseil Protestant du Rwanda, Voice of Africa, Voice of Hope, Kiss FM, Royal FM, Hot FM, Voice of America, Fine FM, Vision Radio, ADEPR Radio, Sana Radio & RFI)

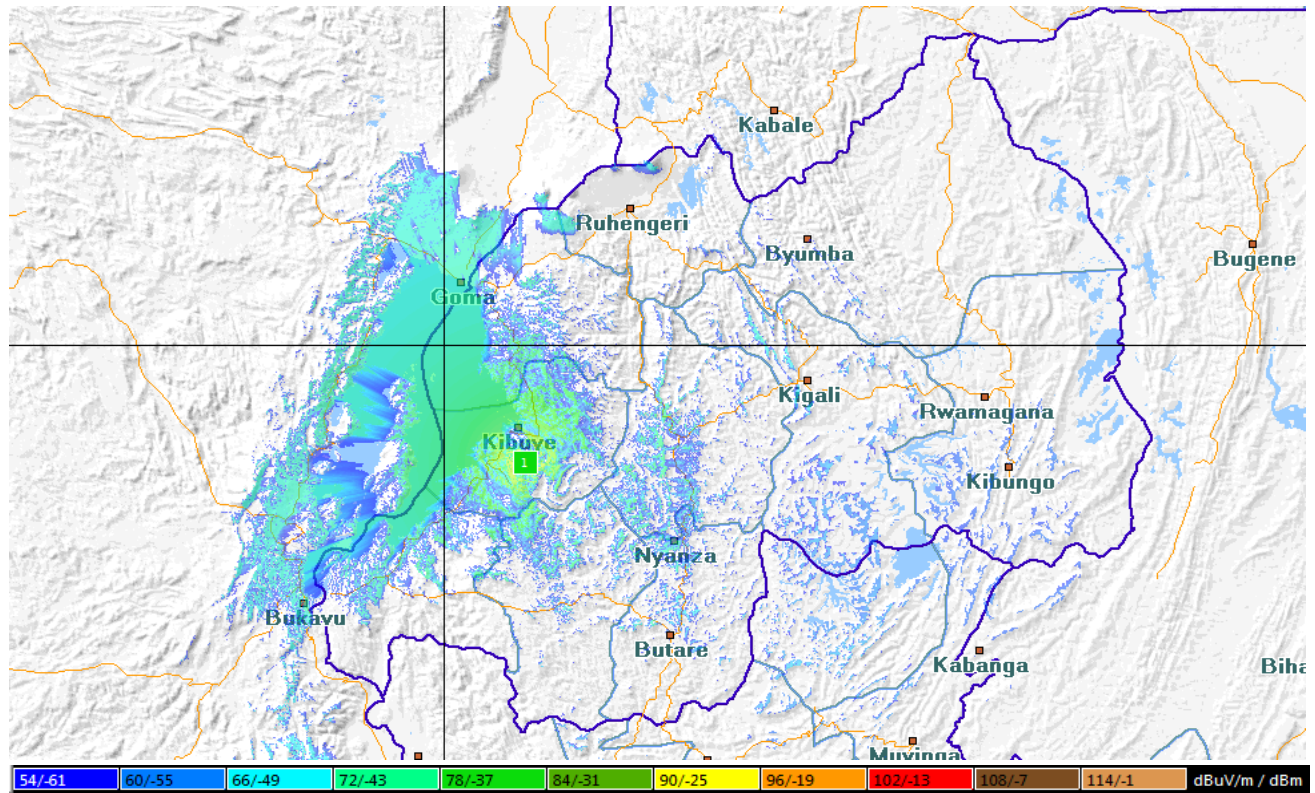




**Image 9: Approximate coverage of Top 5 SAI Ltd (Energy Radio)**

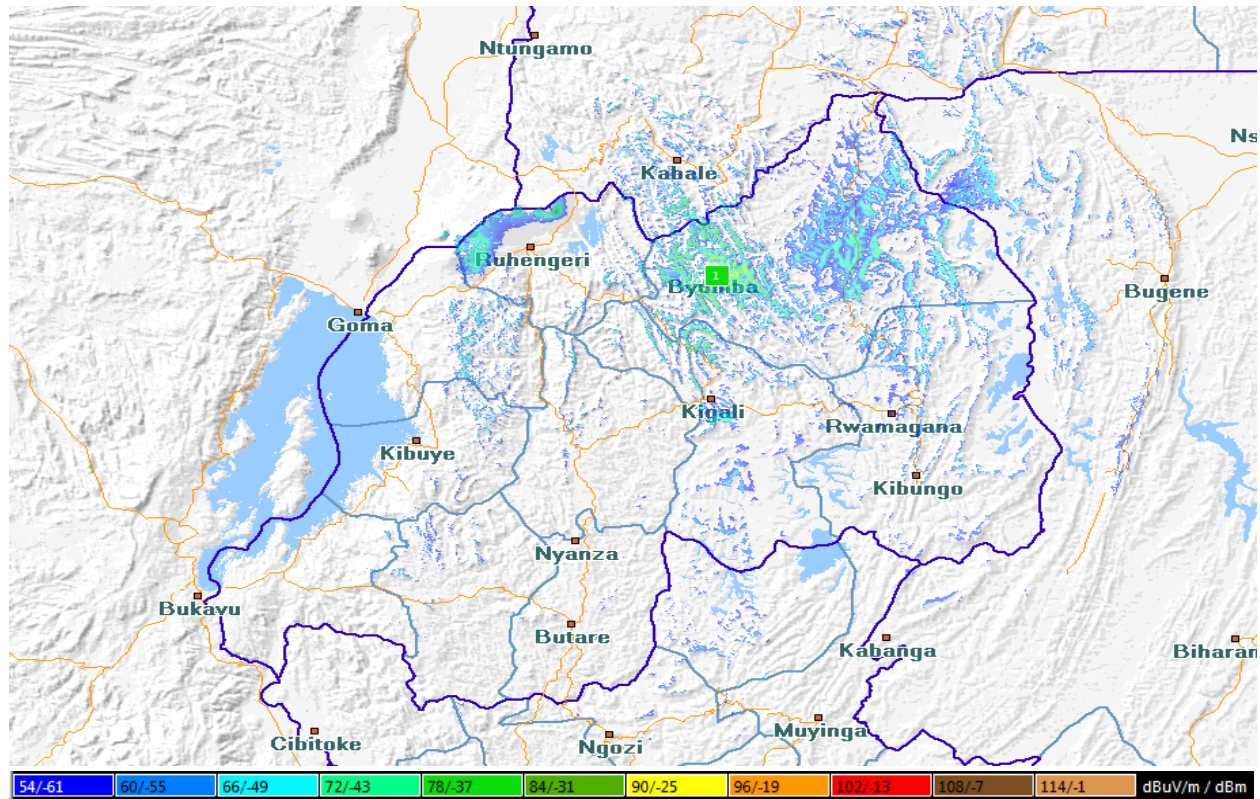


**Image 10: Approximate coverage of Isangano radio at Karongi site**

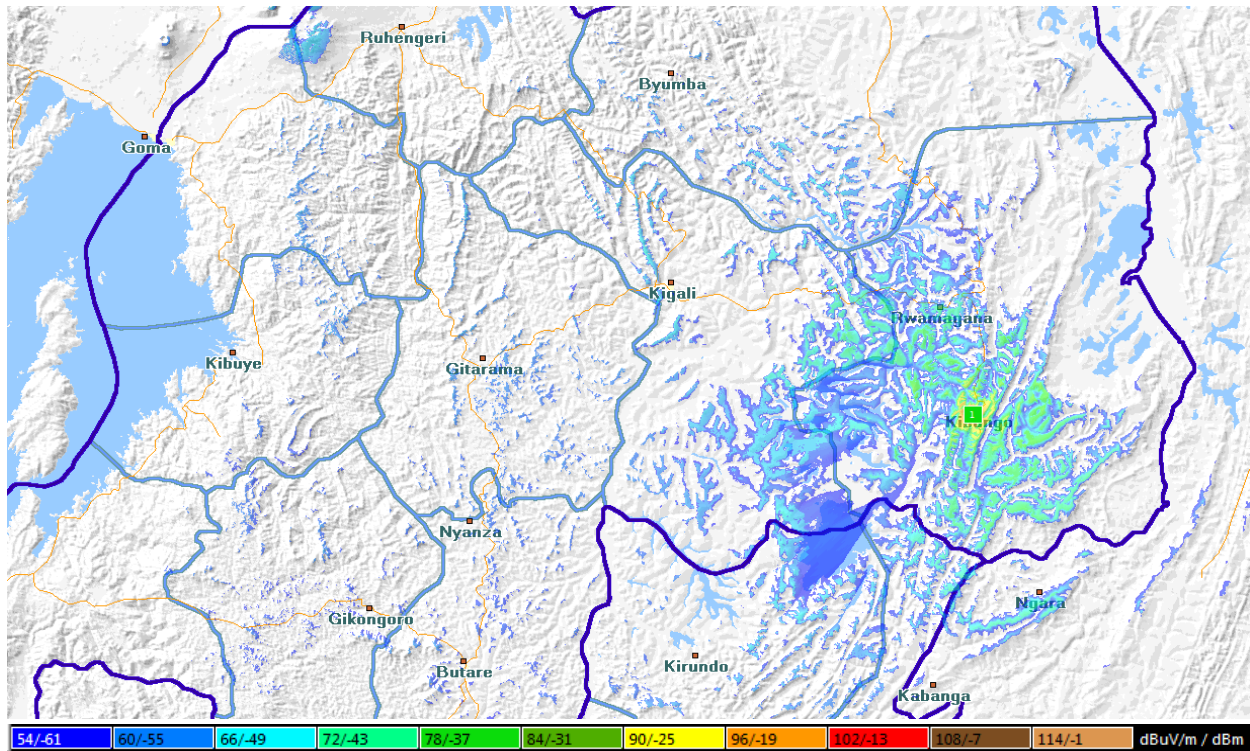




**Image 11: Approximate Radio coverage for Ishingiro Radio at Byumba**



**Image 12: Approximate Radio coverage of Izuba radio**





### **3. APPROXIMATE COVERAGE OF TV STATIONS IN RWANDA**

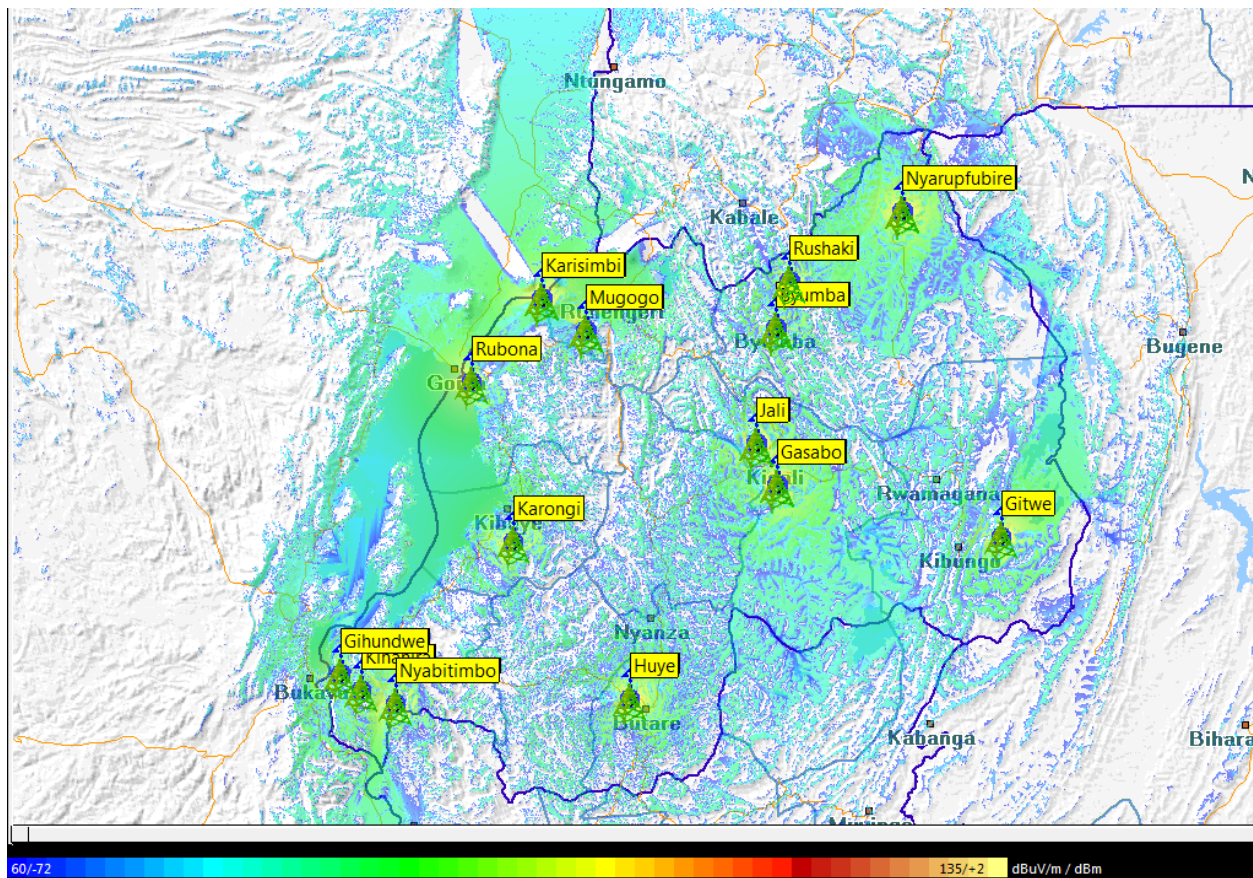
In digital TV broadcasting, there are two signal distributors namely Rwanda Broadcasting Agency (RBA) with 14 transmitters located at 14 sites and PANAFRICA Network Group Ltd with 18 transmitters located at 6 sites.

The aim of this document is to show their simulated coverage. It can help the signal distributors to add gap fillers to cover the areas not covered or add new transmitters in the areas not covered. Further, TV content providers can understand the coverage of their TV contents.

This document contains two parts; the simulated coverage of each network and TV stations broadcasted in each network. The TV stations on RBA network platform covers 80% and on PANAFRICA Network Group Ltd platform covers 60% of the whole country on terrestrial platform.

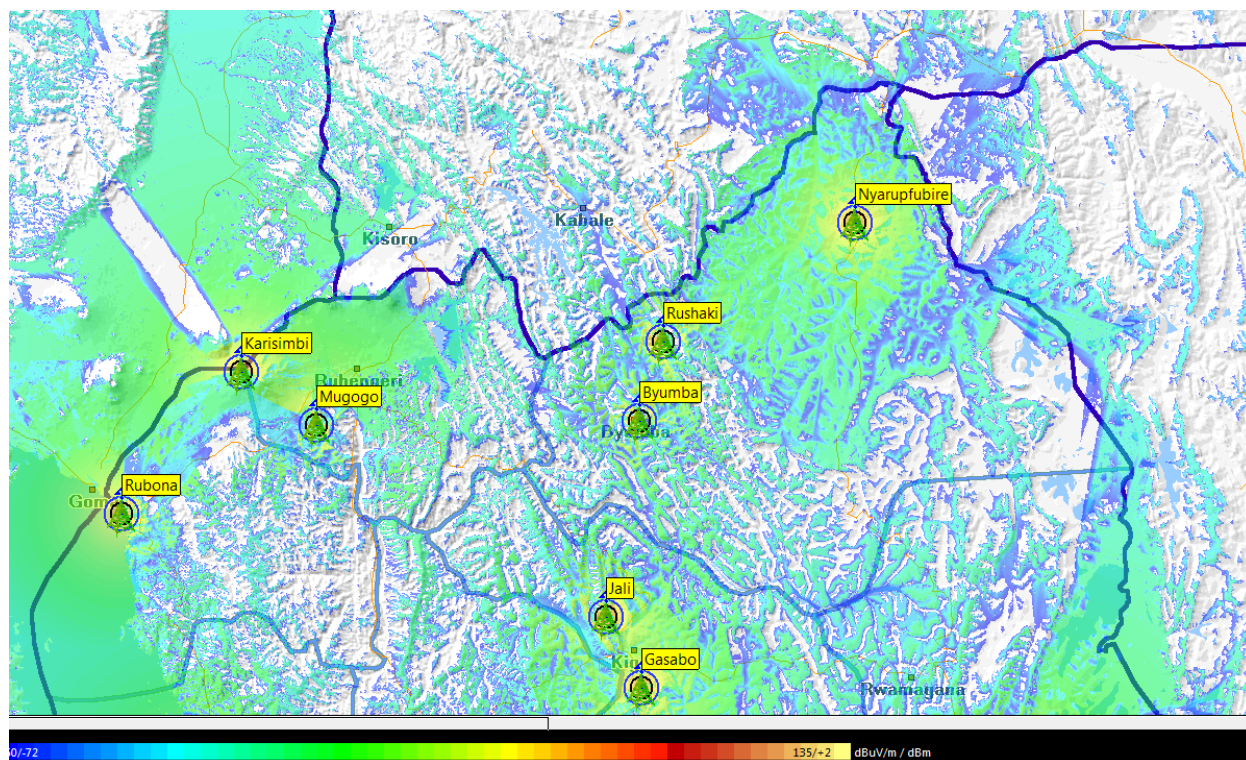
#### **1. PART ONE: THE SIMULATED COVERAGE**

**Fig1: Rwanda Broadcasting Agency Digital TV network Coverage**

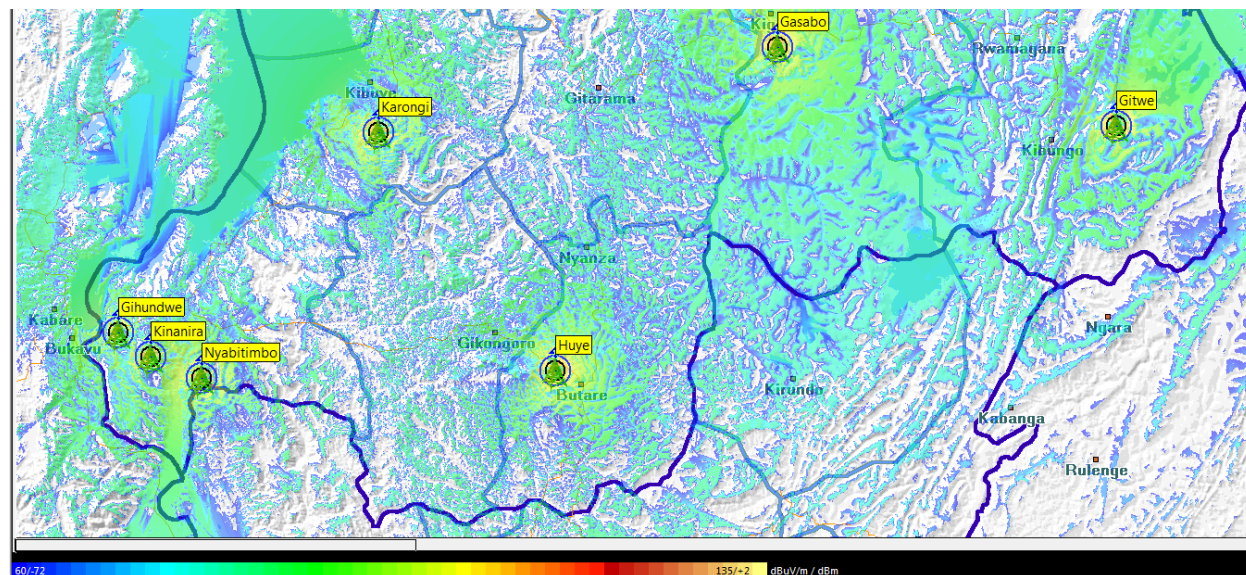




**Fig2: The enlarged RBA Digital TV network in the North and Central part of the country**

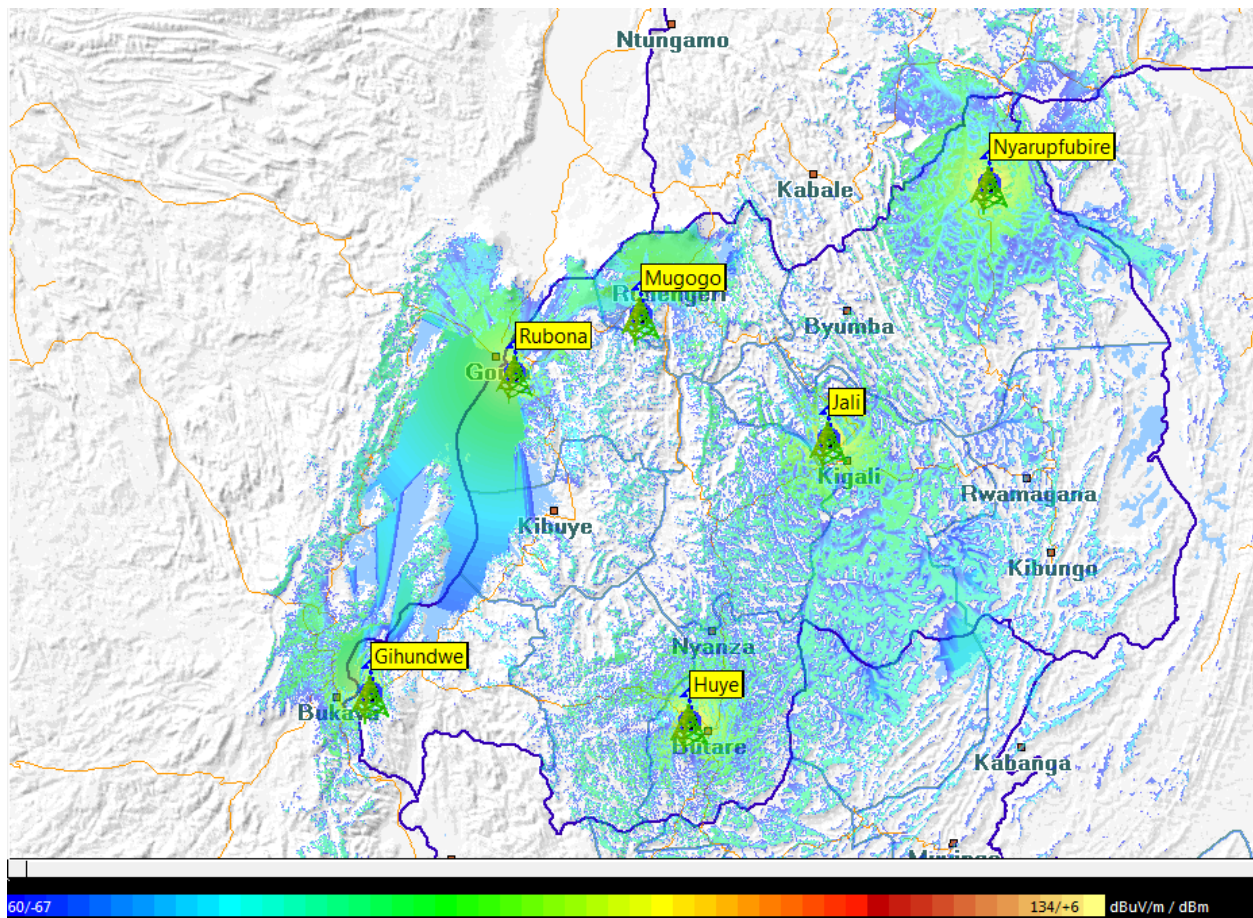


**Fig3: Enlarged RBA Digital TV network in the Southern and central part of the country**

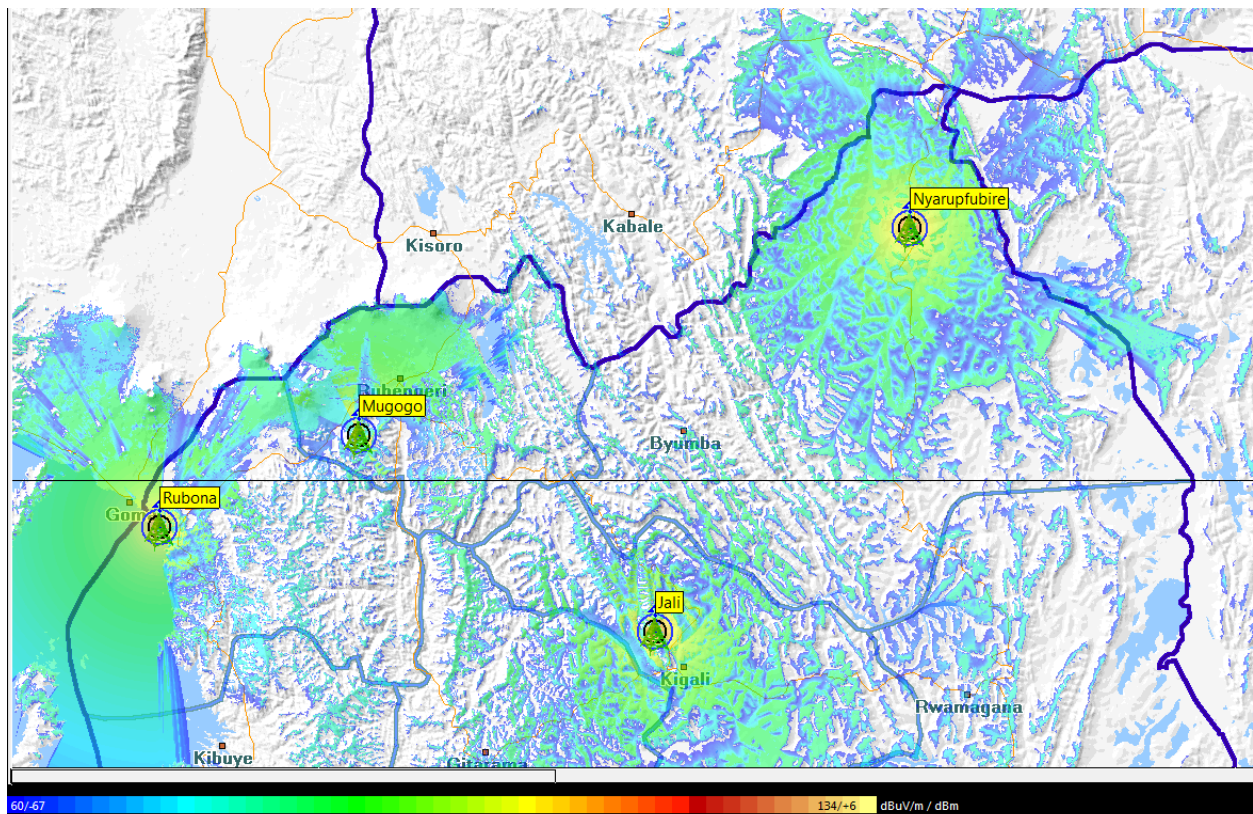




**Fig4: PANAFRICA Network Group Ltd Digital TV Network Coverage**

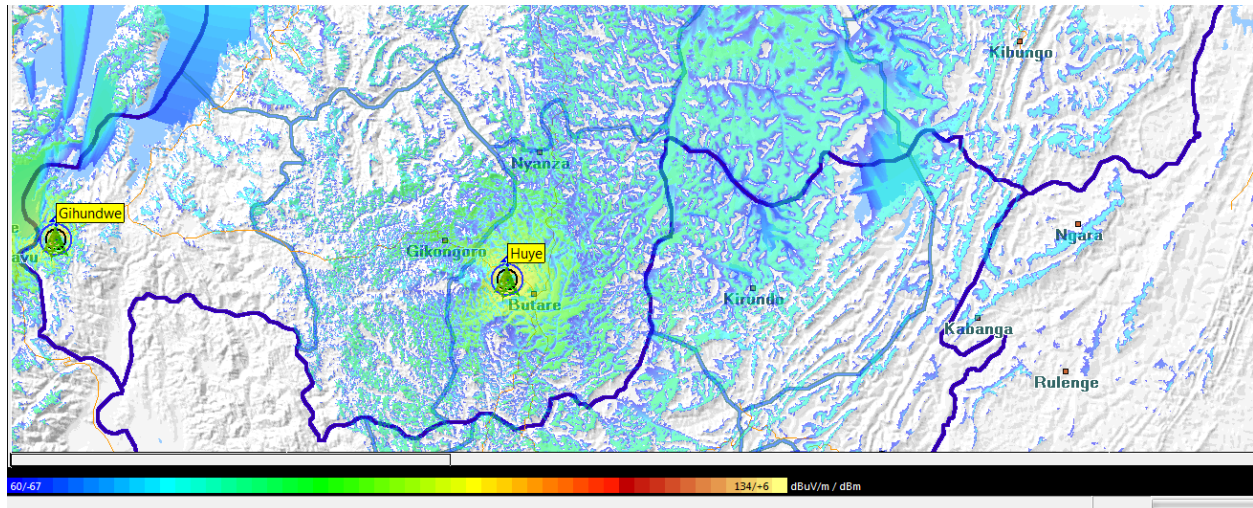


**Fig5: Enlarged PANAFRICA Network Group Ltd Network Coverage in the Northern part**





**Fig6: Enlarged PANAFRICA Network Group Ltd Network Coverage in the Southern and Central part**



### **TV STATIONS CARRIED IN EACH SIGNAL DISTRIBUTOR'S NETWORK**

#### **a) TV stations at RBA Network**

1. Rwanda Television(RTV)
2. Isango Star TV
3. TV One
4. Flash TV
5. Big Television Network (BTN) TV
6. France 24 French & English
7. Pacis TV.
8. KC2.

#### **b) TV Stations at StarTimes Media Ltd Network**

1. TV One
2. Flash TV
3. Big Television Network (BTN) TV
4. Authentic TV
5. Rwanda Television (RTV)
6. Isango Star TV
7. TV10
8. Victory TV
9. Prime TV
10. Buryohe TV
11. Isibo TV
12. Pacis TV.