

## 1. RWAMAGANA (MTN, TIGO AND AIRTEL SITE)

Index	Service	Act	Max Avg	STD
1	TV	2.787375 V/m	2.801033 V/m	28 V/m
2	FM-Radio	2.145612 V/m	2.223803 V/m	28 V/m
3	Mid	1.453343 V/m	1.447631 V/m	28 V/m
4	Paging	0.7584813 V/m	0.7771782 V/m	28 V/m
5	BandIII	1.644921 V/m	1.633231 V/m	28 V/m
6	Trains	0.134736 V/m	0.134266 V/m	29.72725 V/m
7	BandIV	2.083851 V/m	2.042393 V/m	29.80995 V/m
8	BandV	0.8918317 V/m	0.9135605 V/m	38.64755 V/m
9	GSM-R	0.2552515 V/m	0.2248029 V/m	40.69532 V/m
10	GSM	1.714503 V/m	1.696336 V/m	41.02067 V/m
11	L-Band	0.599429 V/m	0.5877079 V/m	52.39454 V/m
12	DECT	0.5423898 V/m	0.5398572 V/m	59.61891 V/m
13	UMTS-TDD	1.459086 V/m	1.464967 V/m	59.93519 V/m
14	UMTS	1.220716 V/m	1.250374 V/m	61 V/m
15	W-LAN	2.063409 V/m	2.076266 V/m	61 V/m
16	ISM	0.9427508 V/m	0.9813704 V/m	61 V/m
	Total Value:	5.945251 V/m	5.918817 V/m	28 V/m
	Others Value:	0 V/m	0 V/m	0 V/m

## 2. KAYONZA

Index	Service	Act	Max Avg	STD
1	TV	2.908428 V/m	2.849327 V/m	28 V/m
2	FM-Radio	2.125736 V/m	2.223803 V/m	28 V/m
3	Mid	1.488426 V/m	1.455206 V/m	28 V/m
4	Paging	0.7712076 V/m	0.7771782 V/m	28 V/m
5	BandIII	1.651569 V/m	1.635396 V/m	28 V/m
6	Trains	0.1150473 V/m	0.134266 V/m	29.72725 V/m
7	BandIV	2.014783 V/m	2.065582 V/m	29.80995 V/m
8	BandV	0.890848 V/m	0.9135605 V/m	38.64755 V/m
9	GSM-R	0.2236151 V/m	0.2256227 V/m	40.69532 V/m
10	GSM	1.7093 V/m	1.697005 V/m	41.02067 V/m
11	L-Band	0.5913571 V/m	0.5993403 V/m	52.39454 V/m
12	DECT	0.5507708 V/m	0.545601 V/m	59.61891 V/m
13	UMTS-TDD	1.466344 V/m	1.464967 V/m	59.93519 V/m
14	UMTS	1.237695 V/m	1.250374 V/m	61 V/m
15	W-LAN	2.051523 V/m	2.076266 V/m	61 V/m
16	ISM	0.9639172 V/m	0.9813704 V/m	61 V/m
	Total Value:	5.985521 V/m	5.944031 V/m	28 V/m
	Others Value:	0 V/m	0 V/m	0 V/m

### 3. BYUMBA (ORINFOR SITE)

Index	Service	Act	Max	STD
1	TV	2.496883 V/m	3.795468 V/m	28 V/m
2	FM-Radio	1.589881 V/m	2.11182 V/m	28 V/m
3	Mid	1.298887 V/m	1.817311 V/m	28 V/m
4	Paging	0.7166843 V/m	1.10165 V/m	28 V/m
5	BandIII	1.763126 V/m	1.839929 V/m	28 V/m
	Total Value:	4.564982 V/m	5.313388 V/m	28 V/m
	Others Value:	2.601453 V/m	3.087322 V/m	28 V/m

#### 4. HUYE (NEAR NUR)

Index	Service	Minimum Frequency	Maximum Frequency	RBW	Act	Max Avg	STD
1	TV Band I	47 MHz	68 MHz	5 MHz	2.968841 V/m	3.061144 V/m	28 V/m
2	FM-Radio	87.5 MHz	108 MHz	200 kHz	1.836811 V/m	1.752686 V/m	28 V/m
3	Mid Wave	137 MHz	165 MHz	3 MHz	1.554636 V/m	1.594395 V/m	28 V/m
4	Paging	165 MHz	174 MHz	2 MHz	0.8469226 V/m	0.8251306 V/m	28 V/m
5	BandIII (DVB-T)	174 MHz	230 MHz	5 MHz	1.710847 V/m	1.81863 V/m	28 V/m
6	Trains	467.45 MHz	468.3 MHz	200 kHz	0.135718 V/m	0.1569141 V/m	29.72725 V/m
7	BandIV (DVB-T)	470 MHz	790 MHz	10 MHz	2.146847 V/m	2.136703 V/m	29.80995 V/m
8	BandV (DAB)	790 MHz	862 MHz	5 MHz	1.019779 V/m	1.02231 V/m	38.64755 V/m
9	GSM-R	876 MHz	880 MHz	500 kHz	0.2513517 V/m	0.257738 V/m	40.69532 V/m
10	GSM 900	890 MHz	960 MHz	500 kHz	1.02038 V/m	1.007083 V/m	41.02067 V/m
11	L-Band (DAB)	1.452 GHz	1.492 GHz	5 MHz	0.6488889 V/m	0.6613076 V/m	52.39454 V/m
12	GSM 1800	1.71 GHz	1.88 GHz	500 kHz	1.590241 V/m	1.610191 V/m	56.85955 V/m
13	DECT	1.88 GHz	1.9 GHz	3 MHz	0.556107 V/m	0.5944669 V/m	59.61891 V/m
14	UMTS-TDD	1.9 GHz	2.025 GHz	5 MHz	1.618632 V/m	1.607491 V/m	59.93519 V/m
15	UMTS DL	2.11 GHz	2.17 GHz	5 MHz	1.357703 V/m	1.389465 V/m	61 V/m
16	W-LAN	2.4 GHz	2.4835 GHz	20 MHz	2.257739 V/m	2.28401 V/m	61 V/m
17	ISM	2.4835 GHz	2.5 GHz	3 MHz	1.071442 V/m	1.074847 V/m	61 V/m
	Total Value:				6.244086 V/m	6.291021 V/m	28 V/m
	Others Value:				0 V/m	0 V/m	0 V/m

## 5. HUYE (TUMBA)

Index	Service	Act	Max	STD
1	TV	3.022794 V/m	3.318718 V/m	28 V/m
2	FM-Radio	1.729748 V/m	1.956141 V/m	28 V/m
3	Mid	1.685097 V/m	1.685097 V/m	28 V/m
4	Paging	0.781117 V/m	0.8919353 V/m	28 V/m
5	BandIII	1.816811 V/m	1.861325 V/m	28 V/m
6	Trains	0.1206475 V/m	0.1957398 V/m	29.72725 V/m
7	BandIV	2.223318 V/m	2.238552 V/m	29.80995 V/m
8	BandV	0.9944482 V/m	1.044299 V/m	38.64755 V/m
9	GSM-R	0.2429623 V/m	0.2786219 V/m	40.69532 V/m
10	GSM	2.014735 V/m	2.040749 V/m	41.02067 V/m
11	L-Band	0.6724176 V/m	0.6833436 V/m	52.39454 V/m
12	DECT	0.5921169 V/m	0.6354095 V/m	59.61891 V/m
13	UMTS-TDD	1.62434 V/m	1.678084 V/m	59.93519 V/m
14	UMTS	1.466177 V/m	1.466177 V/m	61 V/m
15	W-LAN	2.219275 V/m	2.383664 V/m	61 V/m
16	ISM	1.068805 V/m	1.128825 V/m	61 V/m
	Total Value:	8.903321 V/m	9.014223 V/m	28 V/m
	Others Value:	6.218205 V/m	6.24999 V/m	28 V/m

## 6. MUHANGA (NEAR MTN TOWER)

Index	Service	Act	Max	STD
1	TV	3.293592 V/m	3.318718 V/m	28 V/m
2	FM-Radio	1.793901 V/m	1.956141 V/m	28 V/m
3	Mid	1.553103 V/m	1.685097 V/m	28 V/m
4	Paging	0.8556389 V/m	0.8919353 V/m	28 V/m
5	BandIII	1.818639 V/m	1.889358 V/m	28 V/m
6	Trains	0.1472852 V/m	0.1957398 V/m	29.72725 V/m
7	BandIV	2.200161 V/m	2.238552 V/m	29.80995 V/m
8	BandV	1.025834 V/m	1.044299 V/m	38.64755 V/m
9	GSM-R	0.2394201 V/m	0.2786219 V/m	40.69532 V/m
10	GSM	1.962845 V/m	2.040749 V/m	41.02067 V/m
11	L-Band	0.6721655 V/m	0.6833436 V/m	52.39454 V/m
12	DECT	0.5813724 V/m	0.6382888 V/m	59.61891 V/m
13	UMTS-TDD	1.618106 V/m	1.678084 V/m	59.93519 V/m
14	UMTS	1.425643 V/m	1.466177 V/m	61 V/m
15	W-LAN	2.308003 V/m	2.383664 V/m	61 V/m
16	ISM	1.132907 V/m	1.132907 V/m	61 V/m
	Total Value:	8.946321 V/m	9.014223 V/m	28 V/m
	Others Value:	6.135425 V/m	6.24999 V/m	28 V/m

## 7. JALI (NEAR ORINFPOR TOWER)

Index	Service	Minimum Frequency	Maximum Frequency	RBW	Act	STD
1	TV Band I	47 MHz	68 MHz	5 MHz	3.154684 V/m	28 V/m
2	FM-Radio	87.5 MHz	108 MHz	200 kHz	4.797015 V/m	28 V/m
3	Mid Wave	137 MHz	165 MHz	3 MHz	1.66644 V/m	28 V/m
4	Paging	165 MHz	174 MHz	2 MHz	0.8292817 V/m	28 V/m
5	BandIII (DVB-T)	174 MHz	230 MHz	5 MHz	1.921811 V/m	28 V/m
6	Trains	467.45 MHz	468.3 MHz	200 kHz	0.1725663 V/m	29.72725 V/m
7	BandIV (DVB-T)	470 MHz	790 MHz	10 MHz	2.593914 V/m	29.80995 V/m
8	BandV (DAB)	790 MHz	862 MHz	5 MHz	1.005114 V/m	38.64755 V/m
9	GSM-R	876 MHz	880 MHz	500 kHz	0.2557475 V/m	40.69532 V/m
10	GSM 900	890 MHz	960 MHz	500 kHz	1.00729 V/m	41.02067 V/m
11	L-Band (DAB)	1.452 GHz	1.492 GHz	5 MHz	0.6537334 V/m	52.39454 V/m
12	GSM 1800	1.71 GHz	1.88 GHz	500 kHz	1.635695 V/m	56.85955 V/m
13	DECT	1.88 GHz	1.9 GHz	3 MHz	0.6310015 V/m	59.61891 V/m
14	UMTS-TDD	1.9 GHz	2.025 GHz	5 MHz	1.654635 V/m	59.93519 V/m
15	UMTS DL	2.11 GHz	2.17 GHz	5 MHz	1.399908 V/m	61 V/m
16	W-LAN	2.4 GHz	2.4835 GHz	20 MHz	2.297959 V/m	61 V/m
17	ISM	2.4835 GHz	2.5 GHz	3 MHz	1.067441 V/m	61 V/m
	Total Value:				10.13345 V/m	28 V/m
	Others Value:				6.252853 V/m	28 V/m

## 8. JALI (NEAR MTN, AIRTEL AND TIGO TOWERS)

Index	Service	Minimum Frequency	Maximum Frequency	RBW	Act	STD
1	Band I	47 MHz	68 MHz	5 MHz	2.971366 V/m	28 V/m
2	UKW	87.5 MHz	108 MHz	200 kHz	3.767528 V/m	28 V/m
3	Band II/DAB	174 MHz	230 MHz	5 MHz	1.82949 V/m	28 V/m
4	Band IV/V/DTVB	470 MHz	790 MHz	10 MHz	2.262522 V/m	29.79343 V/m
5	GSM 900	890 MHz	960 MHz	500 kHz	0.9330887 V/m	41.00867 V/m
6	GSM 1800	1.71 GHz	1.88 GHz	500 kHz	1.563883 V/m	56.85089 V/m
7	UMTS	1.92 GHz	2.17 GHz	5 MHz	2.572697 V/m	60.24163 V/m
	Total Value:				6.436185 V/m	28 V/m
	Others Value:				0 V/m	0 V/m

## 9. JALI (NEAR STARTIMES TOWERS)

Index	Service	Minimum Frequency	Maximum Frequency	RBW	Act	STD
1	Band I	47 MHz	68 MHz	5 MHz	3.193074 V/m	28 V/m
2	UKW	87.5 MHz	108 MHz	200 kHz	2.935396 V/m	28 V/m
3	Band II/DAB	174 MHz	230 MHz	5 MHz	2.000865 V/m	28 V/m
4	Band IV/V/DTVB	470 MHz	790 MHz	10 MHz	2.444636 V/m	29.79343 V/m
5	GSM 900	890 MHz	960 MHz	500 kHz	0.9098814 V/m	41.00867 V/m
6	GSM 1800	1.71 GHz	1.88 GHz	500 kHz	1.617851 V/m	56.85089 V/m
7	UMTS	1.92 GHz	2.17 GHz	5 MHz	2.682592 V/m	60.24163 V/m
	Total Value:				6.279618 V/m	28 V/m
	Others Value:				0 V/m	0 V/m

## 10. MININFRA BUILDING

Index	Service	Minimum Frequency	Maximum Frequency	RBW	Act	STD
1	Band I	47 MHz	68 MHz	5 MHz	3.752229 V/m	28 V/m
2	UKW	87.5 MHz	108 MHz	200 kHz	2.128946 V/m	28 V/m
3	Band II/DAB	174 MHz	230 MHz	5 MHz	1.697431 V/m	28 V/m
4	Band IV/V/DTVB	470 MHz	790 MHz	10 MHz	2.095907 V/m	29.79343 V/m
5	GSM 900	890 MHz	960 MHz	500 kHz	1.810031 V/m	41.00867 V/m
6	GSM 1800	1.71 GHz	1.88 GHz	500 kHz	2.02458 V/m	56.85089 V/m
7	UMTS	1.92 GHz	2.17 GHz	5 MHz	2.804963 V/m	60.24163 V/m
	Total Value:				8.532905 V/m	28 V/m
	Others Value:				5.628657 V/m	28 V/m

## 11. TELECOM HOUSE

Index	Service	Minimum Frequency	Maximum Frequency	RBW	Act	STD
1	Band I	47 MHz	68 MHz	5 MHz	3.767526 V/m	28 V/m
2	UKW	87.5 MHz	108 MHz	200 kHz	2.285554 V/m	28 V/m
3	Band II/DAB	174 MHz	230 MHz	5 MHz	2.16521 V/m	28 V/m
4	Band IV/V/DTVB	470 MHz	790 MHz	10 MHz	2.297536 V/m	29.79343 V/m
5	GSM 900	890 MHz	960 MHz	500 kHz	1.043807 V/m	41.00867 V/m
6	GSM 1800	1.71 GHz	1.88 GHz	500 kHz	1.757721 V/m	56.85089 V/m
7	UMTS	1.92 GHz	2.17 GHz	5 MHz	2.663239 V/m	60.24163 V/m
	Total Value:				8.453409 V/m	28 V/m
	Others Value:				5.550076 V/m	28 V/m

## 12. AMAHORO STADIUM

Index	Service	Minimum Frequency	Maximum Frequency	RBW	Act	STD
1	Band I	47 MHz	68 MHz	5 MHz	3.204024 V/m	28 V/m
2	UKW	87.5 MHz	108 MHz	200 kHz	1.700527 V/m	28 V/m
3	Band II/DAB	174 MHz	230 MHz	5 MHz	1.762402 V/m	28 V/m
4	Band IV/V/DTVB	470 MHz	790 MHz	10 MHz	2.242614 V/m	29.79343 V/m
5	GSM 900	890 MHz	960 MHz	500 kHz	1.220205 V/m	41.00867 V/m
6	GSM 1800	1.71 GHz	1.88 GHz	500 kHz	1.801383 V/m	56.85089 V/m
7	UMTS	1.92 GHz	2.17 GHz	5 MHz	2.568908 V/m	60.24163 V/m
	Total Value:				8.053856 V/m	28 V/m
	Others Value:				5.677895 V/m	28 V/m

### 13. KIST (MUHABURA BUILDING)

Battery: 22.07.11 10:05:10 GPS: 1°57'23.5" S Ant: 3AX 27M-3G SrvTbl: EU Full Band  
 30°3'49.2" E Cable: --- Stnd: ICNIRP GP

Table View: Condensed

Index	Service	Act	Max	Std
1	TV	2.577 $\mu\text{W}/\text{m}^2$	2.577 $\mu\text{W}/\text{m}^2$	2.080 $\text{W}/\text{m}^2$
2	FM-Radio	3.242 $\mu\text{W}/\text{m}^2$	4.143 $\mu\text{W}/\text{m}^2$	2.080 $\text{W}/\text{m}^2$
3	Mid	626.5 $\text{nW}/\text{m}^2$	709.7 $\text{nW}/\text{m}^2$	2.080 $\text{W}/\text{m}^2$
4	Paging	160.6 $\text{nW}/\text{m}^2$	214.6 $\text{nW}/\text{m}^2$	2.080 $\text{W}/\text{m}^2$
5	BandIII	810.0 $\text{nW}/\text{m}^2$	854.5 $\text{nW}/\text{m}^2$	2.080 $\text{W}/\text{m}^2$
6	Trains	3.693 $\text{nW}/\text{m}^2$	7.273 $\text{nW}/\text{m}^2$	2.344 $\text{W}/\text{m}^2$
7	BandIV	2.381 $\mu\text{W}/\text{m}^2$	3.298 $\mu\text{W}/\text{m}^2$	2.357 $\text{W}/\text{m}^2$
8	BandV	224.8 $\text{nW}/\text{m}^2$	252.5 $\text{nW}/\text{m}^2$	3.962 $\text{W}/\text{m}^2$
9	GSM-R	591.9 $\text{nW}/\text{m}^2$	3.824 $\mu\text{W}/\text{m}^2$	4.393 $\text{W}/\text{m}^2$
10	GSM	3.604 $\text{mW}/\text{m}^2$	6.039 $\text{mW}/\text{m}^2$	4.463 $\text{W}/\text{m}^2$
	Total	6.470 $\text{mW}/\text{m}^2$	7.513 $\text{mW}/\text{m}^2$	2.080 $\text{W}/\text{m}^2$

Isotropic  
 Index: 29.1 • MAN • Date: 22.07.11 10:05:11

MR: 8  $\text{mW}/\text{m}^2$  RBW: 200 kHz (Auto) Sweep Time: 4.987 s **RECALL**  
 Noise Suppr.: Off No. of Runs: 19  
 AVG: 6 min

Display Evaluation Extras

Result Type

Battery: 22.07.11 10:48:56 Ext. Power GPS: 1°57'46.3" S Ant: 3AX 27M-3G SrvTbl: EU Full Band  
 30°3'52.4" E Cable: --- Stnd: ICNIRP GP

Table View: Condensed

Index	Service	Act	Max	Std
7	BandIV	2.415 $\text{nW}/\text{cm}^2$	2.415 $\text{nW}/\text{cm}^2$	235.7 $\mu\text{W}/\text{cm}^2$
8	BandV	24.54 $\text{pW}/\text{cm}^2$	24.54 $\text{pW}/\text{cm}^2$	396.2 $\mu\text{W}/\text{cm}^2$
9	GSM-R	3.490 $\text{nW}/\text{cm}^2$	3.490 $\text{nW}/\text{cm}^2$	439.3 $\mu\text{W}/\text{cm}^2$
10	GSM	2.670 $\mu\text{W}/\text{cm}^2$	2.670 $\mu\text{W}/\text{cm}^2$	446.3 $\mu\text{W}/\text{cm}^2$
11	L-Band	9.814 $\text{pW}/\text{cm}^2$	9.814 $\text{pW}/\text{cm}^2$	728.2 $\mu\text{W}/\text{cm}^2$
12	DECT	7.526 $\text{pW}/\text{cm}^2$	7.526 $\text{pW}/\text{cm}^2$	942.8 $\mu\text{W}/\text{cm}^2$
13	UMTS-TDD	53.71 $\text{pW}/\text{cm}^2$	53.71 $\text{pW}/\text{cm}^2$	952.9 $\mu\text{W}/\text{cm}^2$
14	UMTS	1.281 $\mu\text{W}/\text{cm}^2$	1.281 $\mu\text{W}/\text{cm}^2$	987.0 $\mu\text{W}/\text{cm}^2$
15	W-LAN	102.8 $\text{pW}/\text{cm}^2$	102.8 $\text{pW}/\text{cm}^2$	987.0 $\mu\text{W}/\text{cm}^2$
16	ISM	21.09 $\text{pW}/\text{cm}^2$	21.09 $\text{pW}/\text{cm}^2$	987.0 $\mu\text{W}/\text{cm}^2$
	Total	3.960 $\mu\text{W}/\text{cm}^2$	3.960 $\mu\text{W}/\text{cm}^2$	208.0 $\mu\text{W}/\text{cm}^2$

Isotropic  
 Index: 45.1 • MAN • Date: 22.07.11 10:48:56

MR: 800  $\text{nW}/\text{cm}^2$  RBW: 200 kHz (Auto) Sweep Time: 5.076 s **RECALL**  
 Noise Suppr.: Off No. of Runs: 1  
 AVG: 6 min

Display Evaluation Extras

Result Type



**14. KINYINYA (NEAR DEUTSCHE WELLE RADIO)**

Battery: 10.01.12	Ext. Power 15:47:52	GPS:	1°54'58.4" S Ant: 30°7'00.4" E Cable:	3AX 27M-3G SrvTbl: --- Std:	EU Full Band ICNIRP GP	▶
Table View: Condensed ▼						
Index	Service	Act	Std			▶
1	TV	2.845 V/m	28.00 V/m			
2	FM-Radio	1.705 V/m	28.00 V/m			
3	Mid	1.461 V/m	28.00 V/m			
4	Paging	800.1 mV/m	28.00 V/m			
5	BandIII	1.601 V/m	28.00 V/m			
6	Trains	154.7 mV/m	29.73 V/m			
7	BandIV	2.008 V/m	29.81 V/m			
8	BandV	911.9 mV/m	38.65 V/m			
9	GSM-R	209.1 mV/m	40.70 V/m			
	Others	5.595 V/m	28.00 V/m			Result Type
	Total	8.071 V/m	28.00 V/m			
Isotropic						▶
Index: 114.1 • MAN • Date: 10.01.12 15:47:52						
MR:	160 V/m	RBW: 200 kHz (Auto)	Noise Suppr.:	Sweep Time: 1.893 s	<b>RECALL</b>	▶
				Off No. of Runs: 143	AVG: 4	
Display	Evaluation				Extras	

At the time of measurement, All the four Radio transmitters were operational and the measurement was done at about twenty meters from the antenna towers in residential area.