

Operator Assisted Drive Test Report

For

Davanagere

July 2022

TRAI RO, Bengaluru

Key Performance Indicators:

- All TSPs have met the 2% QOS benchmark of Drop Call Rate except BSNL 2G, BSNL 3G, VIL 4G.
- All TSPs have met the 3% QOS benchmark of Call Block Rate except BSNL 2G.
- All TSPs have **not** met the Rx Quality (%) except VIL 4G.

The Operator Assisted Drive Test has been carried out by Regional Office, Bangalore with the help of Service Providers from 18-07-2022 to 21-07-2022. The drive test covered a drive route of 320 KMs & 6 hotspots. Approximately 620 calls were made for each of the 7 networks: three 2G networks, one 3G network and three LTE network covering four TSPs.

Overview

Voice
Summary

Data
Summary

Overview

Regional Office, TRAI Bengaluru conducted Operator Assisted Drive Test from 18-07-2022 to 21-07-2022 covering various locations in Davanagere City & surrounding region. The performance of Airtel, BSNL, Vodafone Idea and Jio were monitored across various technologies (2G, 3G and 4G/4G). The test results obtained from these drive tests were utilized to assess the network quality for Voice and Data services in terms of

Voice: Coverage, Quality, Handover Success Rate, Call Setup Success Rate, Drop Call Rate and Block Call Rate.

Data: Download and Upload Throughputs, Web Browsing Delay and Latency

Drive Test Details:

Voice Tests: Calls were made for 90 sec duration with wait time of 10 sec between calls in all technologies. The drive test covered a drive route of approximately 320 KMs over a period of 4 days from 18-07-2022 to 21-07-2022. Approximately 620+ calls were made for each of the 7 networks: three 2G (Lock Mode) networks, one 3G (Dual mode) networks and three 4G network covering 4 unique TSPs.

Data Tests: Dynamic data test (Test Data on Move) was conducted for 320 kms over a period of 3 days for download throughput for 3G & 4G technology. Data Tests were performed at 6 static locations; three 2G (Lock mode) networks, one 3G (Dual mode) networks and three 4G (Free mode) networks covering 4 unique TSPs were tested. **All the data through put figure mentioned in the report are based on the average value.**

* For Voice and Data KPI's, 2G measurement is done with UE locked on 2G, 3G measurement is done with UE in Dual mode (2G & 3G) and 4G measurement is done with UE in Free Mode.

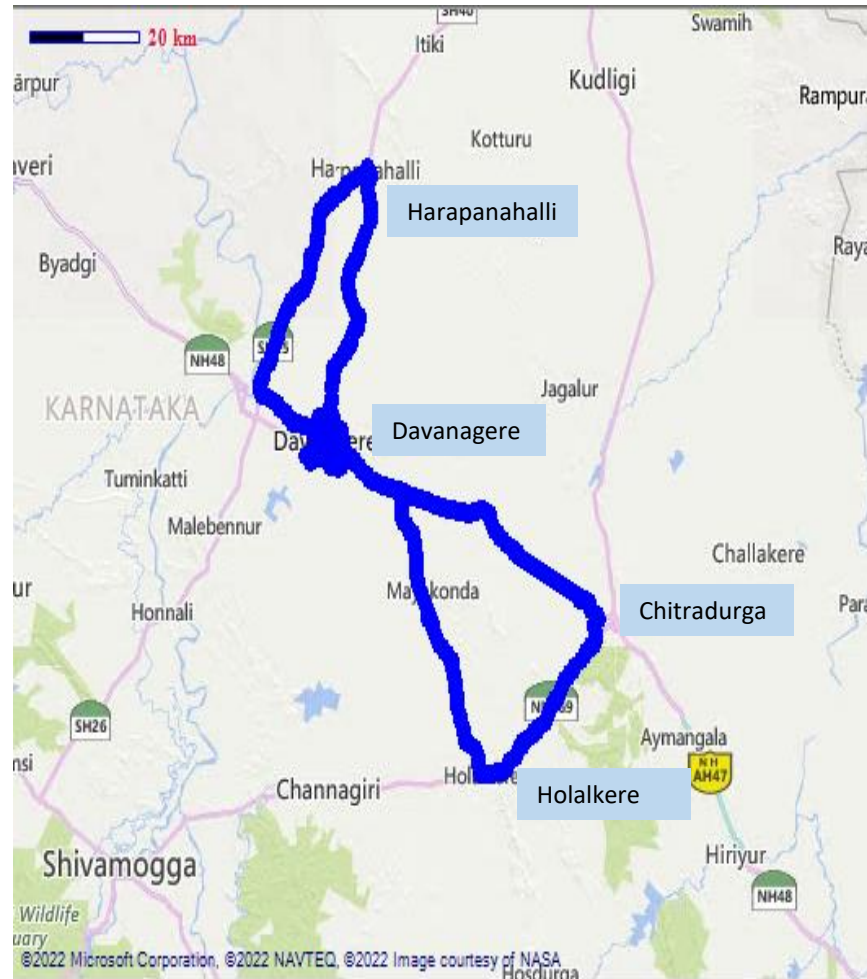
* 3G KPI's which are calculated from UE in Dual Mode (2G & 3G) includes samples and events of 2G.

* 4G KPI's which are calculated from the UE in Free Mode included samples and events of 2G & 3G.

Service	Specifications
Download	2G (Locked) - 500KB, 3G (Dual) - 20 MB, 4G (Free) - 40 MB
Upload	2G (Locked) - 100KB, 3G (Dual) - 5 MB, 4G (Free) - 10 MB
Web Browsing	3 links of e/m commerce website www.amazon.in , www.flipkart.com and PayTm
Latency	32 Bytes on www.google.com
Video Streaming	130 secs clip

Overview

Voice & Dynamic Data Test (Data Test on Move) Drive Route



Areas covered	
Davangere	
Harihara	
Harapanahalli	
Laxmipura	
Anagodu	
Chitradurga	
Holalkere	

Areas covered	
DAY 1	Davanagere- Harihar- Harapanahalli - Laxmipura - Davanagere
DAY 2	Davanagere – Chitradurga –Holalkere -Anagodu
DAY 3	Davanagere (complete city)
DAY 4	Static Locations

Data Service Test- Static Locations

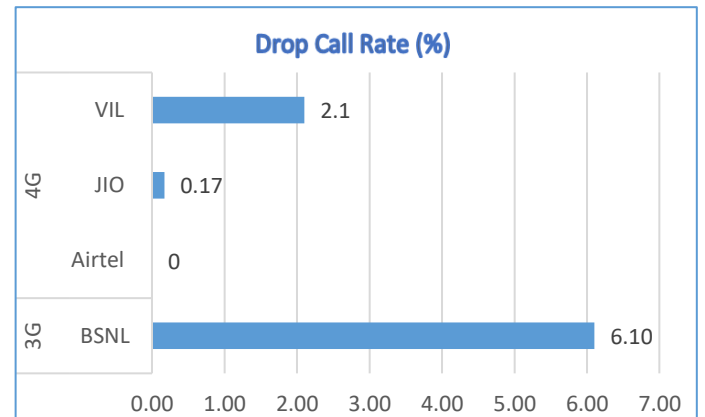
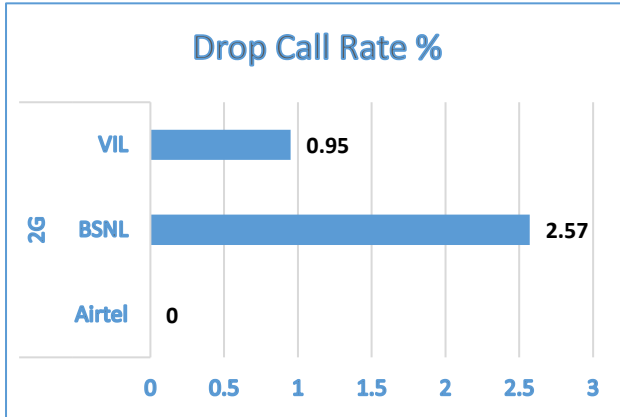
Sub Register Office
RTO Office
Chigateri General Hospital
Anjaneya Temple
KSRTC Bus Stand
Jain Institute

Voice Calls

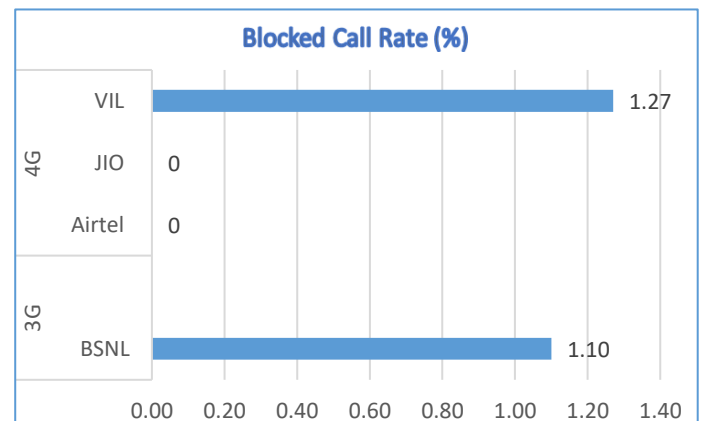
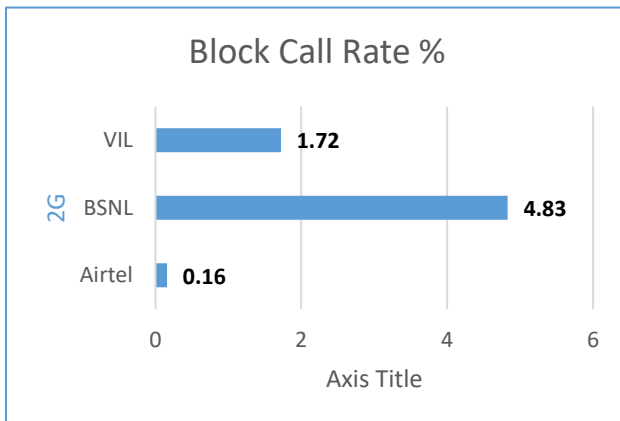
Key Observations

QoS compliance of the TSPs for Voice across technologies 2G/3G/4G-4G:

Drop Call Rate (%)



Block Call Rate (%)



KPIs	2G			3G	4G		
	Airtel	BSNL	VIL	BSNL	Airtel	RJIL	VIL
Drop Call Rate %	0	2.57	0.95	6.10	0	0.17	2.1
Block Call Rate %	0.16	4.83	1.72	1.10	0	0	1.27

- a) All TSPs have met the 2% QOS benchmark of Drop Call Rate except BSNL 2G, BSNL 3G, VIL 4G.
- b) All TSPs have met the 3% QOS benchmark of Call Block Rate except BSNL 2G.

Voice Calls

Key Observations

Coverage

a) Percentage of coverage samples for 2G \geq -85 dBm.

TSPs	2G		
	Airtel	BSNL	VIL
Coverage%	95	75.10	76.09

b) Percentage of coverage samples for 3G \geq -90 dBm & LTE \geq -110 dBm.

TSPs	3G	4G		
	BSNL	Airtel	JIO	VIL
Coverage %	83.80	99.07	94.12	95.44

c) Percentage of time spent on 3G/4G network

TSPs	3G	4G		
	BSNL	Airtel	JIO	VIL
Time Spent on 3G/4G%	66.80	100	100	100

Summary

City Level Summary

Voice Call	2G		
	Airtel	BSNL	VIL
Call Attempt	620	600	639
Blocked Call Rate (%)	0.16	4.83	1.72
CSSR% (Accessibility)	99.84	95.17	98.28
Drop Call Rate (%)	0	2.57	0.95
Mobility HOSR (%)	98.65	96.60	96.59
Rx Quality (%)	94.74	94.10	91.94

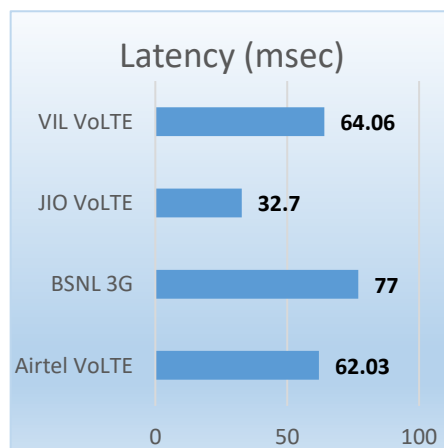
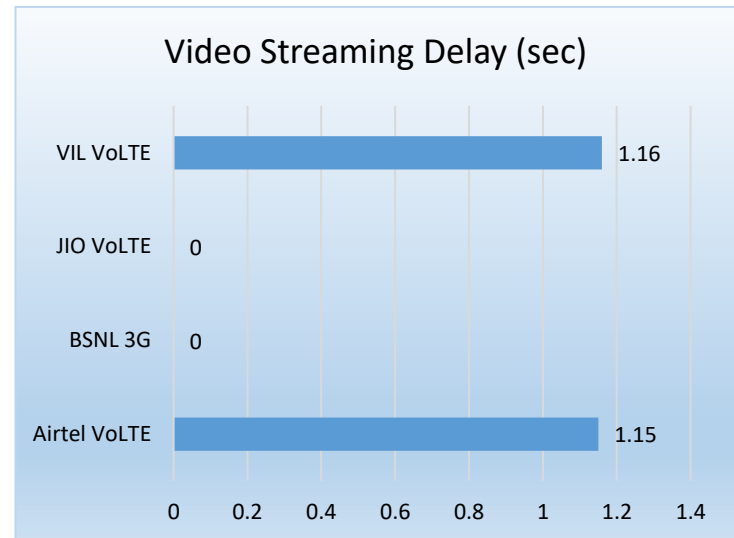
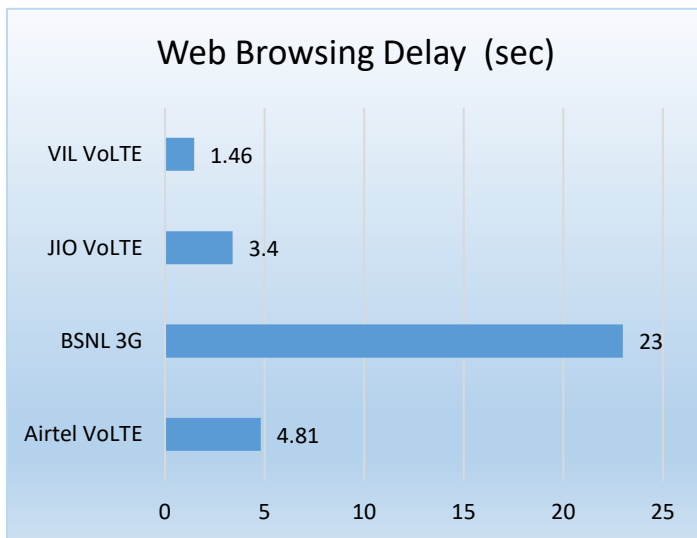
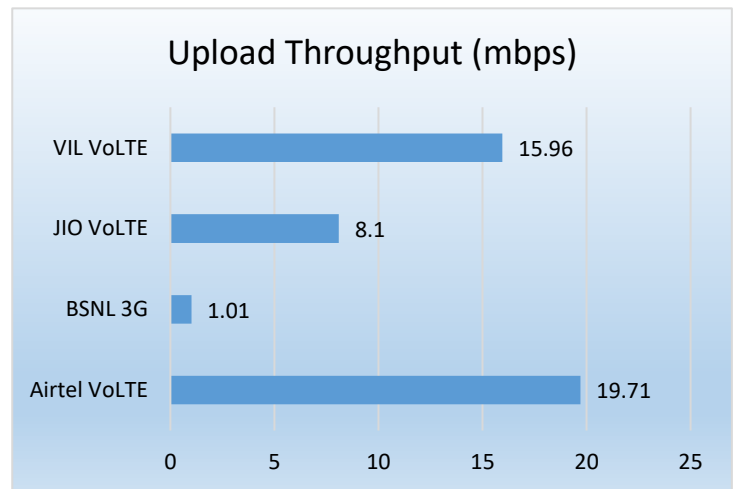
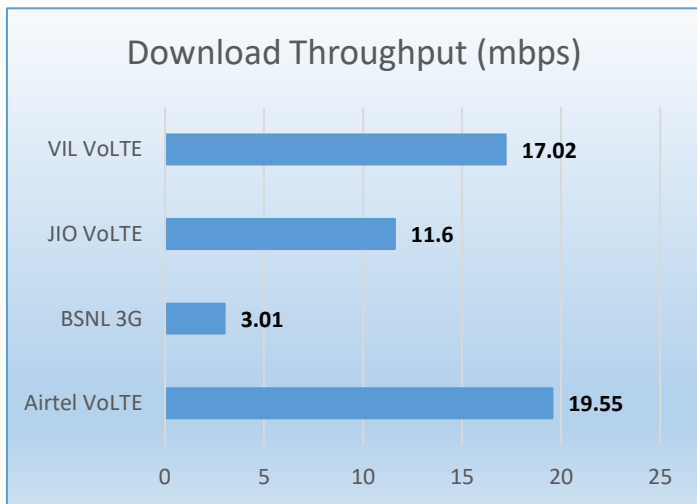
Voice Call	3G/4G			
	Airtel 4G	BSNL 3G	JIO 4G	VIL 4G
Call Attempt	623	445	599	626
Blocked Call Rate (%)	0	1.10	0	1.27
CSSR% (Accessibility)	100	98.9	99.34	98.73
Drop Call Rate (%)	0	6.10	0.17	2.1
Mobility HOSR (%)	99.28	100	97.66	99.44
Rx Quality (%)	94.66	85.90	90.83	95.37

Data Services Static

Key Observations

Data was tested at 6 locations .Following services were tested: Data Download/Upload, Latency (www.google.com), and Web browsing (Flipkart, Amazon, PayTm)

Data Download, Upload Performance (Mbps), Web Browsing delay, Video Streaming and Latency 3G/4G



Summary

City Level Summary(contd.)

Data Services Static	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	122.34	23.51	173
Upload Throughput (kbps)	7.84	11.75	165
Web Browsing Delay (sec)	107.54	139	8.66
Latency (msec)	255.47	77	220.6

Data Services Static	3G/4G			
	Airtel 4G	BSNL 3G	JIO 4G	VIL 4G
Download Throughput (mbps)	19.55	3.01	11.6	17.02
Upload Throughput (mbps)	19.71	1.01	8.1	15.96
Web Browsing Delay (sec)	4.81	23	3.4	1.46
Video Streaming Delay (sec)	1.15	-	0	1.16
Latency (msec)	62.03	77	32.7	64.06

Data Services Dynamic (Data Test on Move)	3G/4G			
	Airtel 4G	BSNL 3G	JIO 4G	VIL 4G
Download Throughput (mbps)	28.970	3.05	9.75	13.3384
Upload Throughput (mbps)	22.03	-	2.18	4.8136

Summary

City Level Data Services Static(contd.)

Data Services Static – Sub Registrar Office	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	118.02	31.94	118
Upload Throughput (kbps)	8.22	17.06	128
Web Browsing Delay (sec)	111.5	113.2	8
Latency (ms)	245	57	216

Data Services Static –Sub Registrar Office	3G	4G		
	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	2.62	7.33	14.02	11.66
Upload Throughput (Mbps)	1.2	10.14	13.26	10.31
Web Browsing Delay (sec)	22	5.02	3.88	1.6
Video Streaming Delay (sec)	-	1.66	0	1.4
Latency (ms)	116	71	33	69

Data Services Static RTO Office	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	155.68	26.94	162
Upload Throughput (kbps)	7	9.04	186
Web Browsing Delay (sec)	68.38	108.2	8.6
Latency (msec)	246	57	236

Data Services Static - RTO Office	3G	4G		
	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	3.18	17.72	14.2	11.33
Upload Throughput (Mbps)	0.75	17.5	5.34	13.882
Web Browsing Delay (sec)	16.6	4.34	3.06	1.4
Video Streaming Delay (sec)	-	0.78	0	1
Latency (ms)	116	78	34	70.2

Summary

City Level Data Services Static(contd.)

Data Services Static – CG Hospital	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	146.04	28.16	146
Upload Throughput (kbps)	8.14	26.31	172
Web Browsing Delay (sec)	86.88	65.4	8.6
Latency (ms)	272	57	280

Data Services Static – CG Hospital	3G	4G		
	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	5.14	26.95	7.64	16.2
Upload Throughput (Mbps)	1.34	20.8	5.66	12.57
Web Browsing Delay (sec)	9.6	3.84	3.54	1.8
Video Streaming Delay (sec)	0	0.66	0	1
Latency (ms)	57	66	38	66.2

Data Services Static – Sri Anjaneya Swamy Temple	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	107.76	37.16	234
Upload Throughput (kbps)	7.96	7.71	208
Web Browsing Delay (sec)	142.97	235	9.4
Latency (msec)	269	116	207

Data Services Static – Sri Anjaneya Swamy Temple	3G	4G		
	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	4.08	9.86	12.1	23.05
Upload Throughput (Mbps)	1.36	23.69	6.74	12.02
Web Browsing Delay (sec)	24.8	4.77	3.22	2
Video Streaming Delay (sec)	-	1.46	0	1
Latency (ms)	57	54	29	52

Summary

City Level Data Services Static(contd.)

Data Services Static –KSRTC Bus Stand	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	118.02	22.08	148
Upload Throughput (kbps)	7.6	12.35	80
Web Browsing Delay (sec)	111.49	68	8.8
Latency (ms)	245	116	187

Data Services Static – KSRTC Bus Stand	3G	4G		
	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	1.63	34.54	11.82	12.98
Upload Throughput (Mbps)	0.65	22.95	4.14	13.35
Web Browsing Delay (sec)	25.4	5.86	3.34	1
Video Streaming Delay (sec)	-	0.69	0	1
Latency (ms)	57	48	33	69

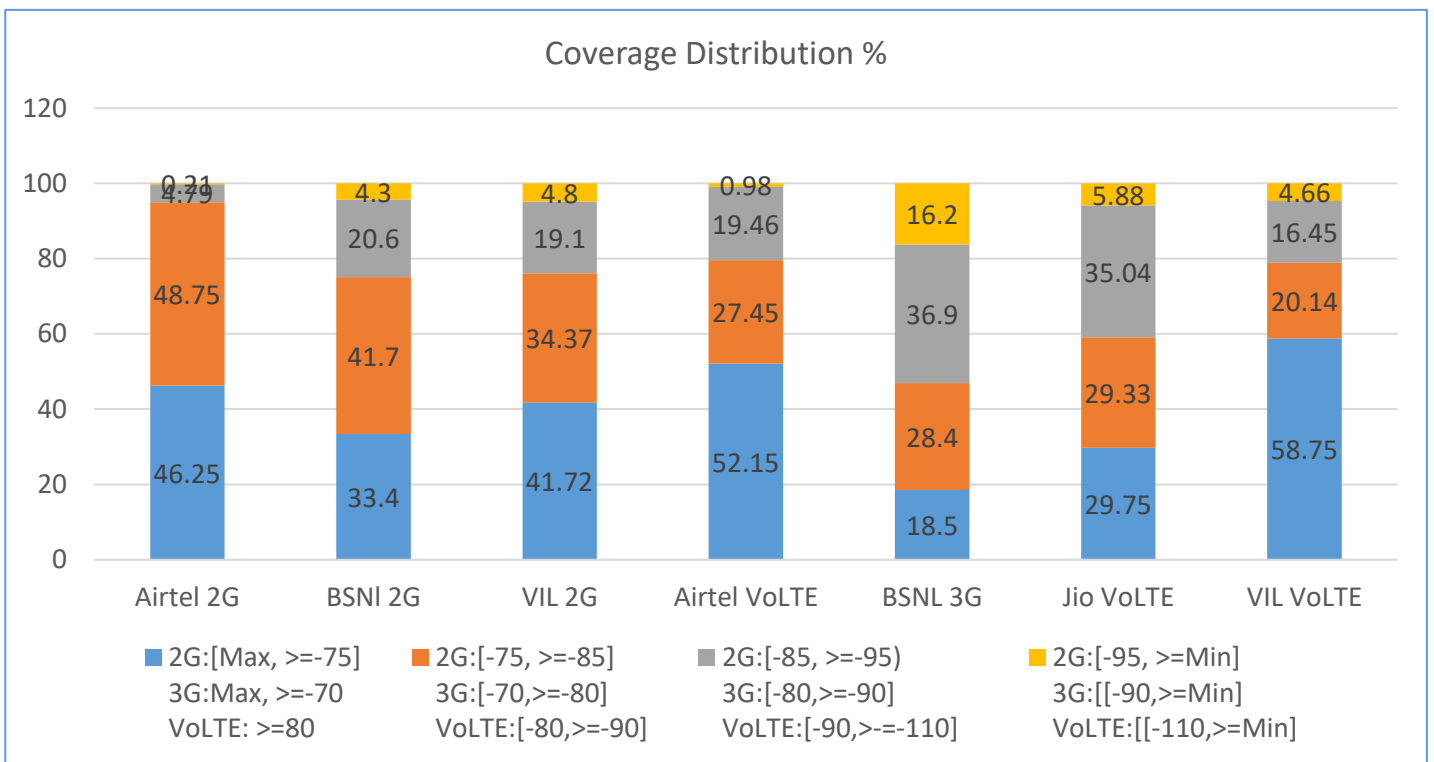
Data Services Static – Jain Institute of Technology	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	88.52	16.86	230
Upload Throughput (kbps)	8.1	10.38	216
Web Browsing Delay (sec)	124.02	243	8.6
Latency (msec)	257	57	197

Data Services Static – Jain Institute of Technology	3G	4G		
	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	1.41	20.89	9.94	27.01
Upload Throughput (Mbps)	0.73	23.19	13.24	33.14
Web Browsing Delay (sec)	40.2	5.06	3.3	1
Video Streaming Delay (sec)	-	1.63	0	1.6
Latency (ms)	57	55	30	58

I. Coverage Details

RF Coverage relates to the geographical footprint within the system that has sufficient RF signal strength to provide for a call session. The Coverage rate is calculated on the basis of % of samples in which the Rx level ≥ -85 dBm, RSCP is ≥ -90 dBm & RSRP ≥ -110 dBm. The details are as follows.

TSP	Coverage Rate %
Airtel 2G	95
BSNI 2G	75.1
VIL 2G	76.09
Airtel 4G	99.07
BSNL 3 G	83.80
Jio 4G	94.12
VIL 4G	95.44

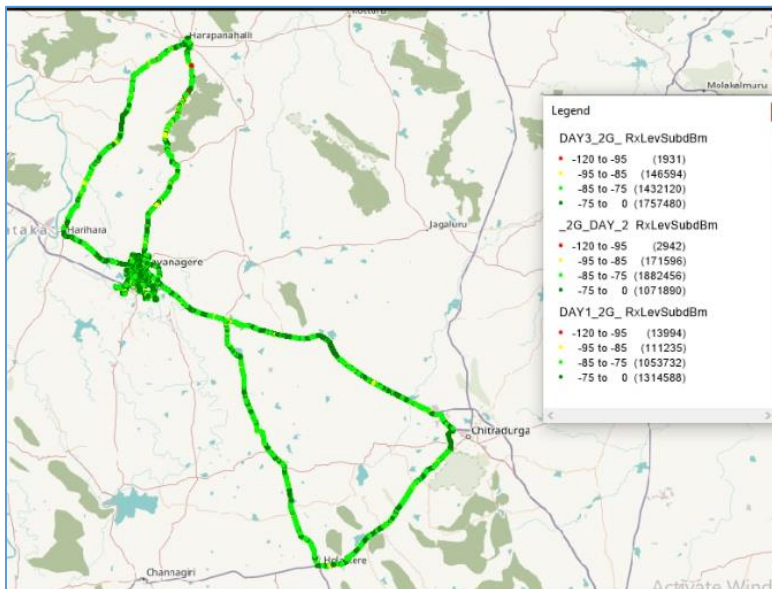


I. Coverage Details

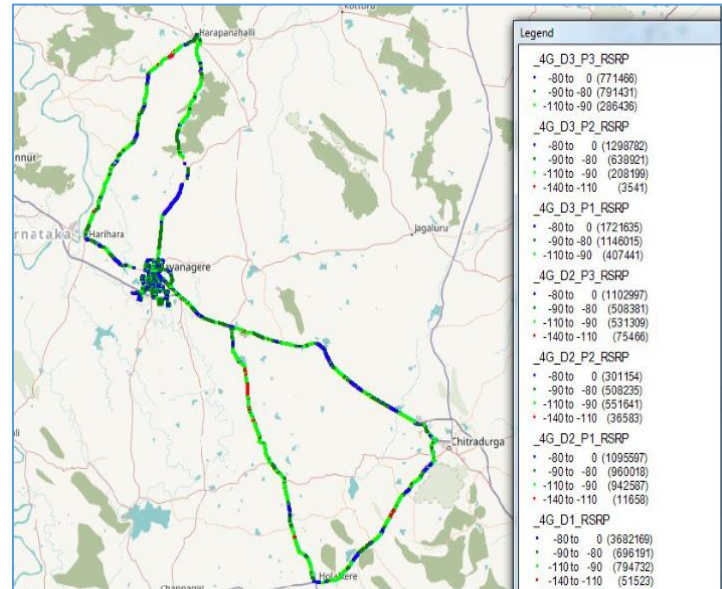
AIRTEL

Technology	Coverage Rate %
2G	95.00
4G	99.07

2G



4G



2G

Overall RxLevel	# Samples	% PDF
[Max, >=-75]	4143958	46.25
[-75, >=-85)	4368308	48.75
[-85, >=-95)	429425	4.79
[-95, >=Min)	18867	0.21
Total	8960558	100

4G/VoLTE

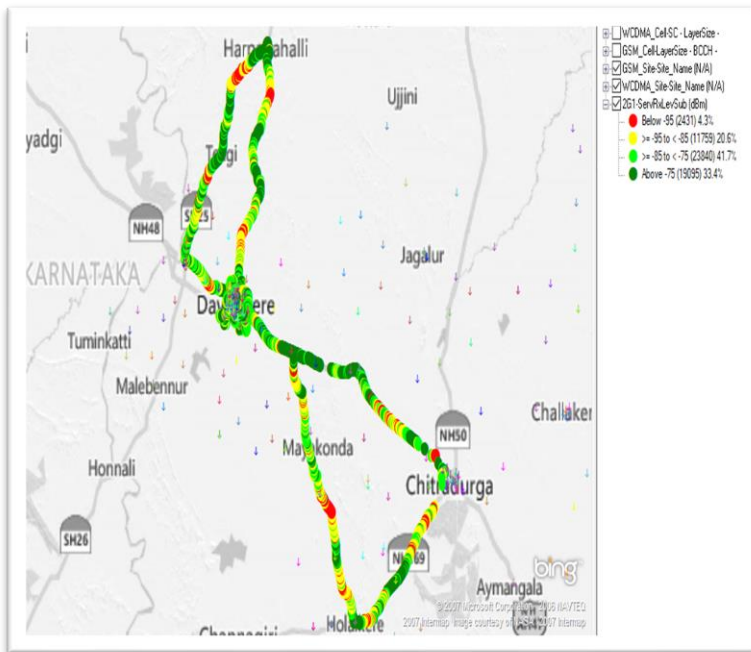
Overall RSRP	# Samples	% PDF
[Max, >=-80]	9973800	52.15
[-80, >=-90)	5249192	27.45
[-90, >=-110)	3722345	19.46
[-110, >=Min)	178771	0.93
Total	19124108	100

I. Coverage Details

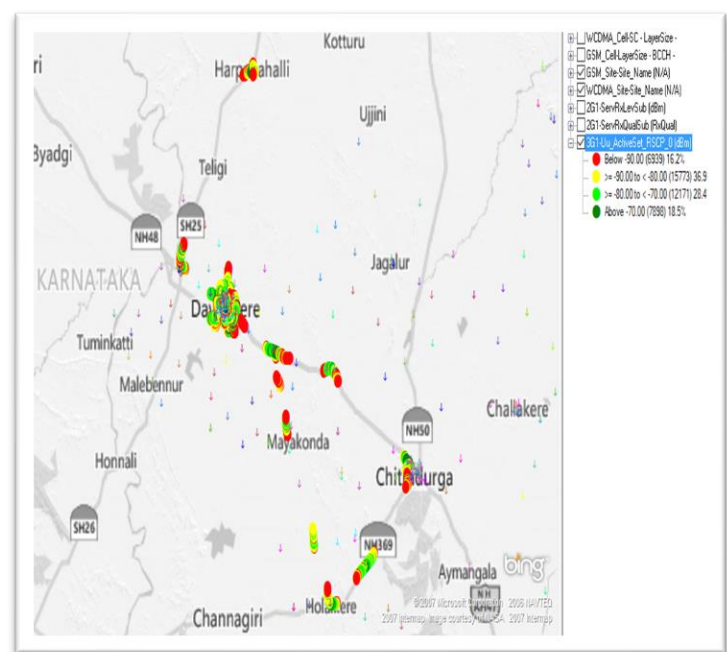
BSNL

Technology	Coverage Rate %
2G	75.10
3G	83.80

2G



3G



2G

Overall RxLevel	# Samples	% PDF
[Max, >=-75]	19095	33.40
[-75, >=-85)	23840	41.70
[-85, >=-95)	11759	20.60
[-95, >=Min)	2431	4.30
Total	57125	100.00

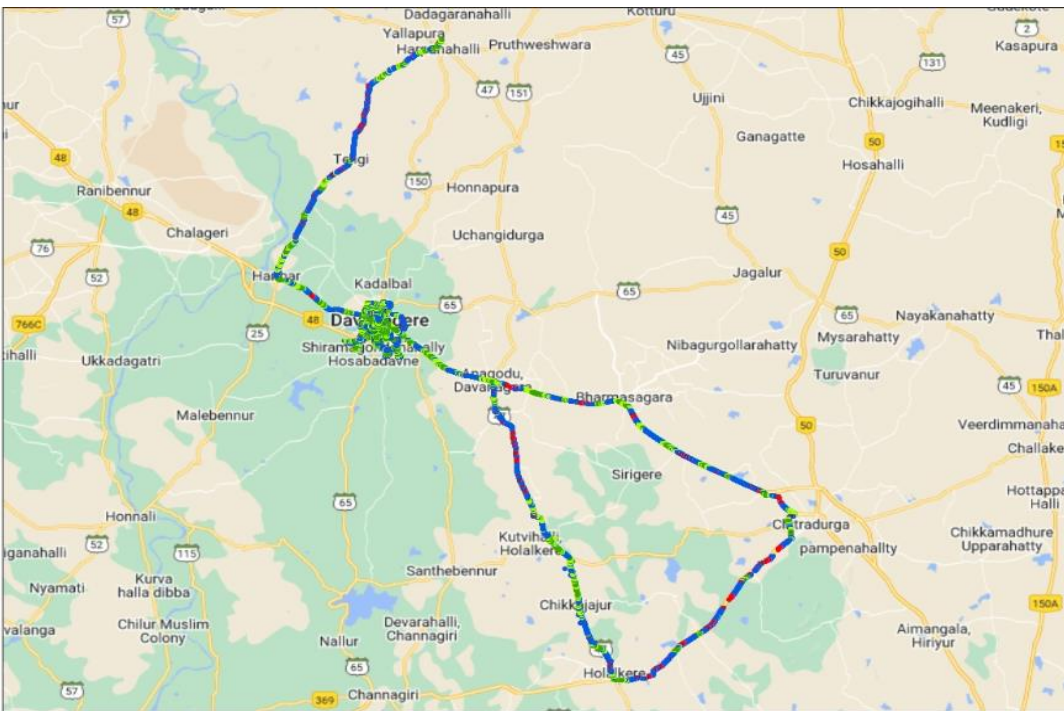
3G

Overall RSCP	# Samples	% PDF
[Max, >=-70]	7898	18.50
[-70, >=-80)	12171	28.40
[-80, >=-90)	15773	36.90
[-90, >=Min)	6939	16.20
Total	42781	100.00

I. Coverage Details

JIO

Technology	Coverage Rate %
4G	94.12



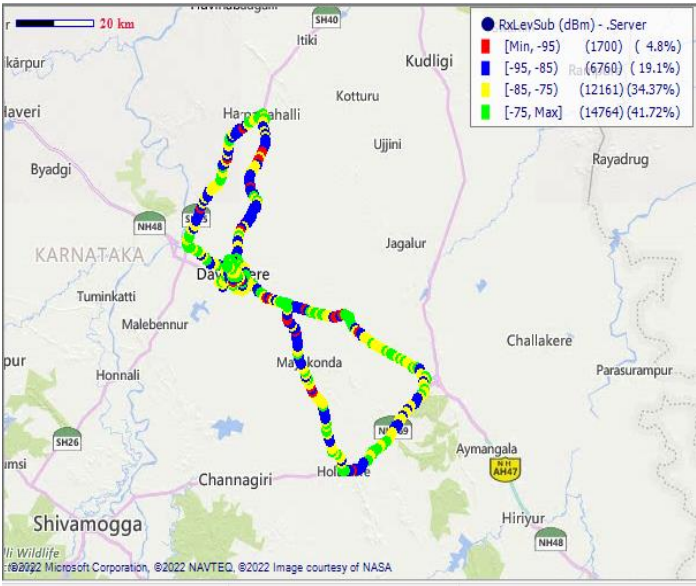
4G/VoLTE		
Overall RSRP	# Samples	% PDF
[Max, >=-80]	19073	29.75
[-80, >=-90)	18799	29.33
[-90, >=-110)	22463	35.04
[-110, >=Min)	3766	5.88
Total	64101	100

I. Coverage Details

VIL

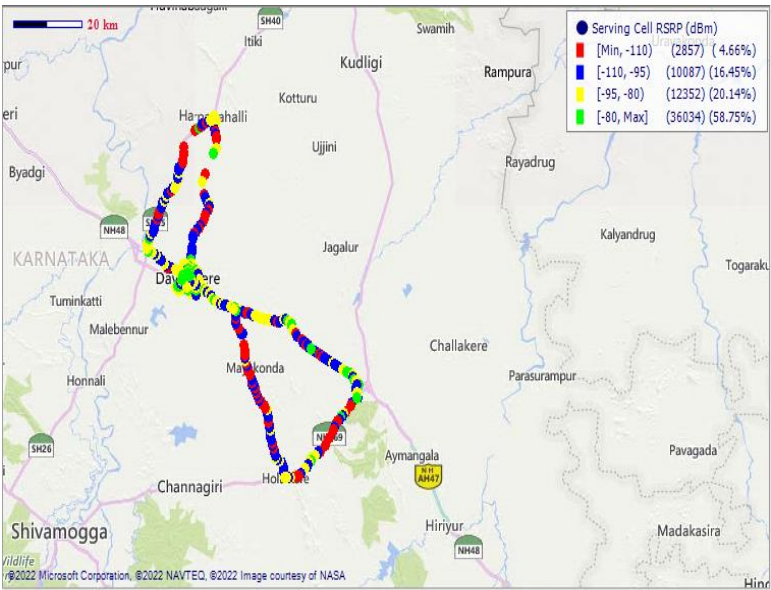
Technology	Coverage Rate %
2G	76.09
4G	95.44

2G



2G		
Overall RxLevel	# Samples	% PDF
[Max, >=-75]	14764	41.72
[-75, >=-85)	12161	34.37
[-85, >=-95)	6760	19.1
[-95, >=Min)	1700	4.8
Total	35385	99.99

4G

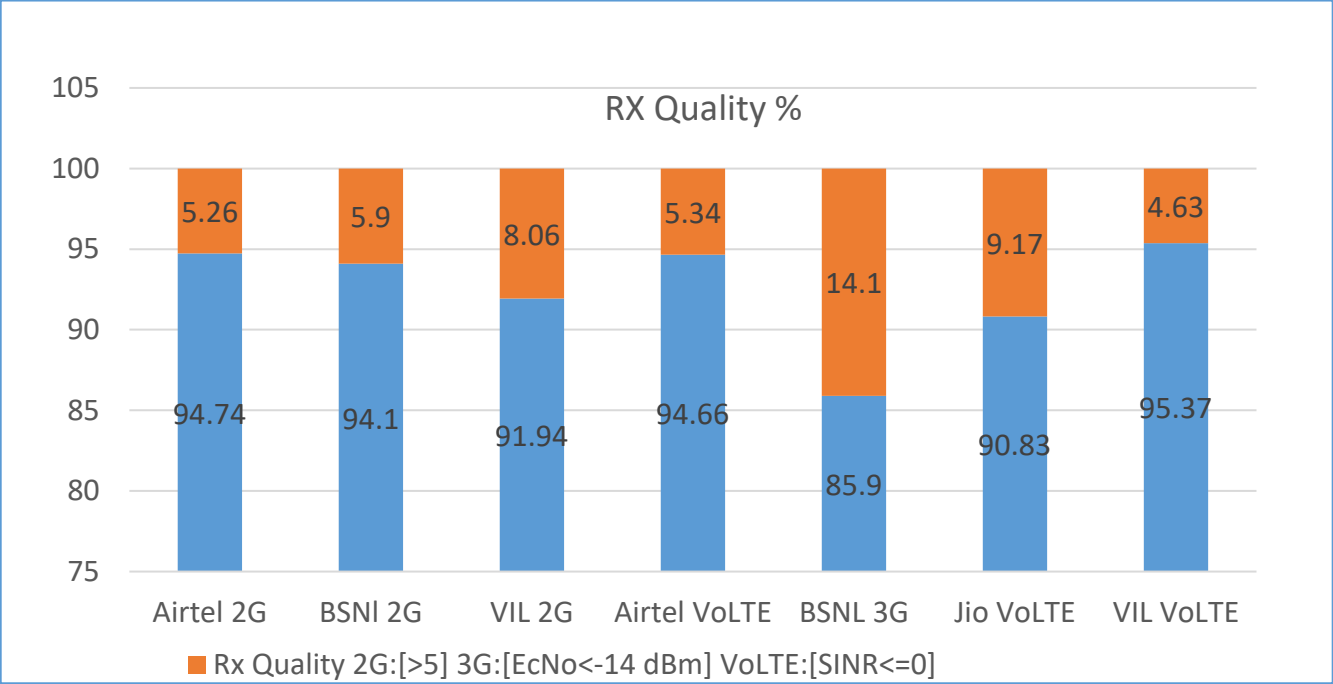


4G/VoLTE		
Overall RSRP	# Samples	% PDF
[Max, >=-80]	36034	58.75
[-80, >=-90)	12352	20.14
[-90, >=-110)	10087	16.45
[-110, >=Min)	2857	4.66
Total	61330	100

II. Quality Details

For measuring voice quality, as per the QoS norms, RxQual ≤ 5 for GSM TSPs, EcNo ≥ -14 dBm for 3G TSP and SINR > 0 in case of 4G is considered to be good, whereas quality beyond this benchmark is considered to be bad. The benchmark should usually be $\geq 95\%$.

TSP	Rx Quality %
Airtel 2G	94.74
BSNI 2G	94.1
VIL 2G	91.94
Airtel 4G	94.66
BSNL 3G	85.9
Jio 4G	90.83
VIL 4G	95.37

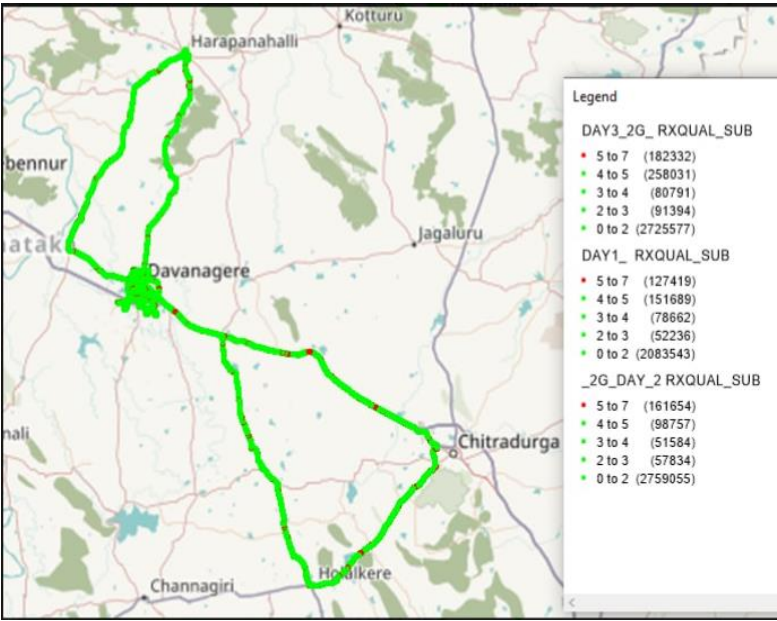


II. Quality Details

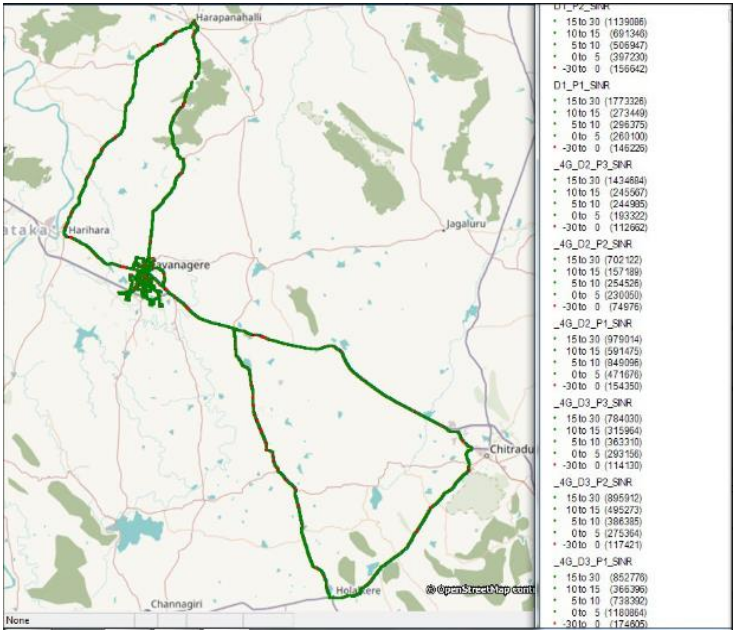
Airtel

Technology	Rx Quality %
2G	94.74
4G	94.66

2G



4G



Overall Rx Quality	# Samples	% PDF
(Min, <=2)	7568175	84.46
(2, <=3)	201464	2.25
(3, <=4)	211037	2.36
(4, <=5)	508477	5.67
(5, <=Max)	471405	5.26
Total	8960558	100%

Overall SINR	# Samples	% PDF
(Min, <=0)	1051012	5.34
(0, <=5)	3301762	16.77
(5, <=10)	3640016	18.49
(10, <=15)	3136658	15.93
(15, <=Max)	8560950	43.48
Total	19690398	100

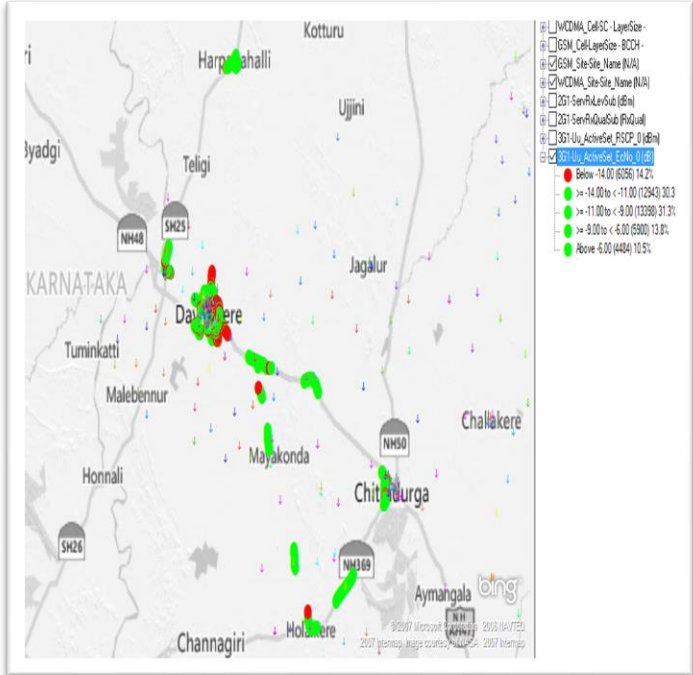
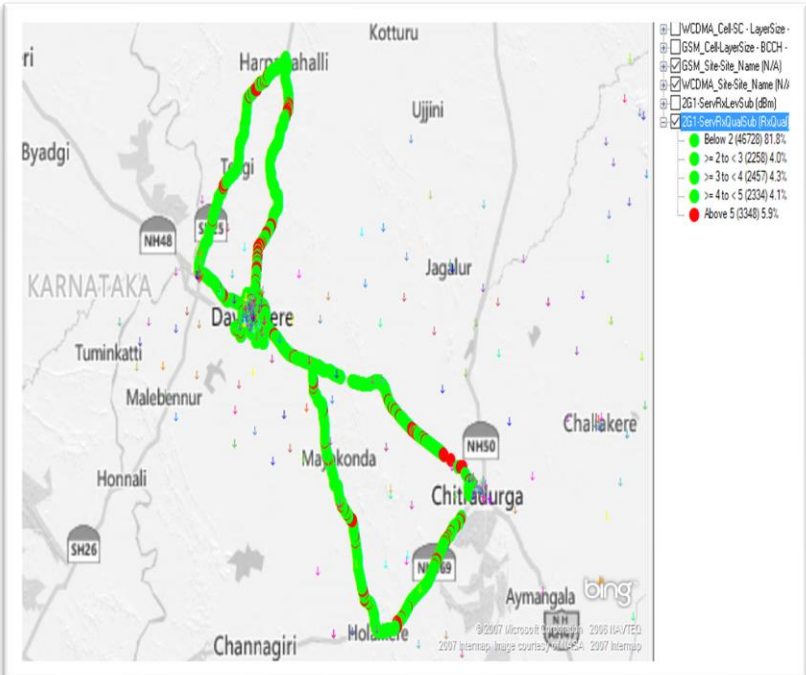
II. Quality Details

BSNL

Technology	Rx Quality %
2G	94.10
3G	85.90

2G

3G



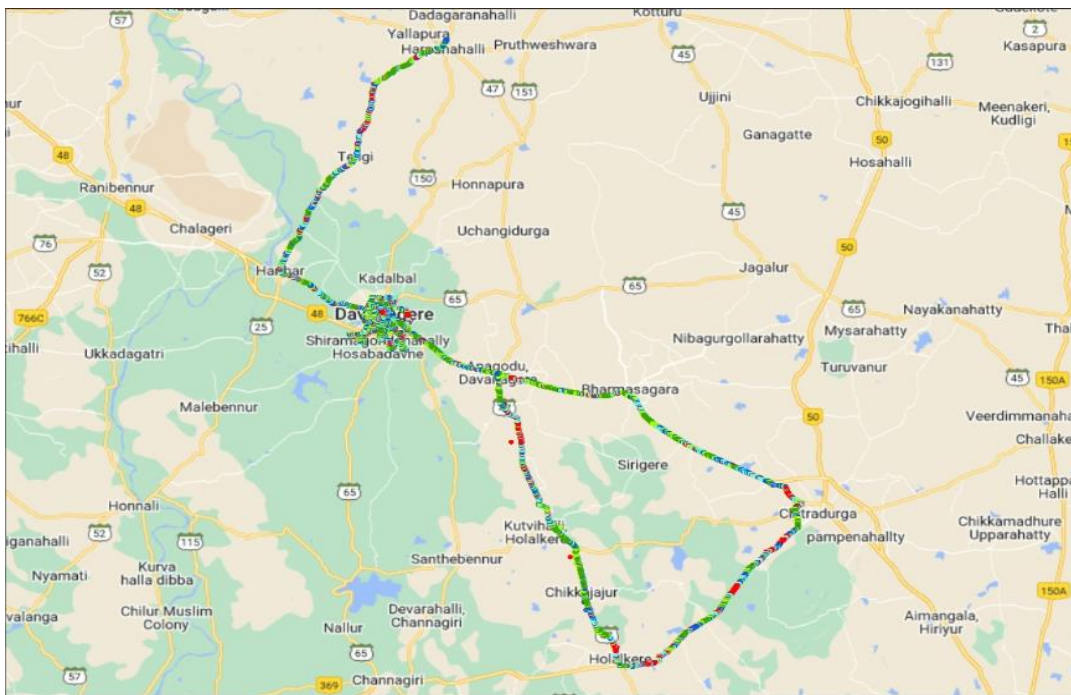
Overall Rx Quality	# Samples	% PDF
(Min, <=2)	46728	81.80
(2, <=3)	2258	4.00
(3, <=4)	2457	4.20
(4, <=5)	2334	4.10
(5, <=Max)	3348	5.90
Total	57125	100.00

Overall EcNo	# Samples	% PDF
(Max, <=-6)	4484	10.50
(-6, <=-9)	5900	13.80
(-9, <=-11)	13398	31.30
(-11, <=-14)	12943	30.30
(-14, <= Min)	6056	14.10
Total	42781	100.00

II. Quality Details

JIO

Technology	Rx Quality (%)
4G/4G	90.83



Overall SINR	# Samples	% PDF
(Min, <=0)	5881	9.17
(0, <=5)	12697	19.81
(5, <=10)	15264	23.81
(10, <=15)	12514	19.52
(15, <=Max)	17745	27.68
Total	64101	100

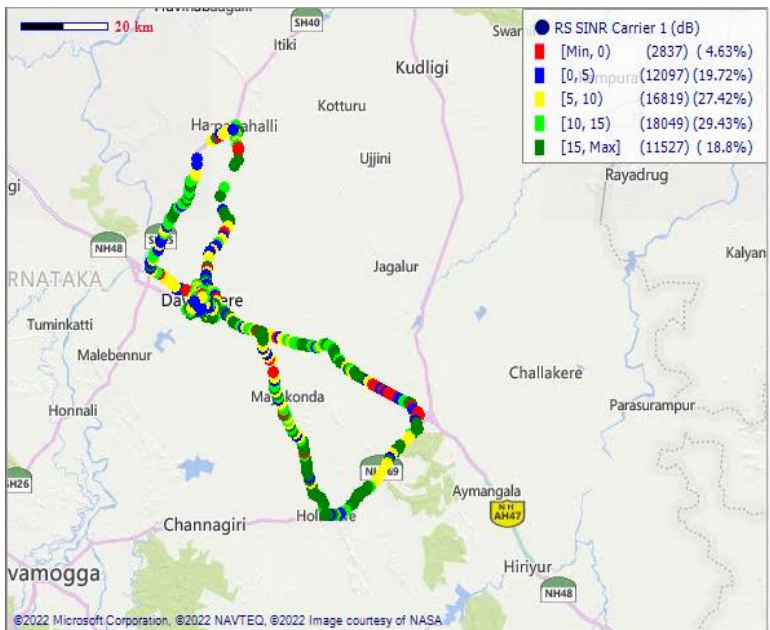
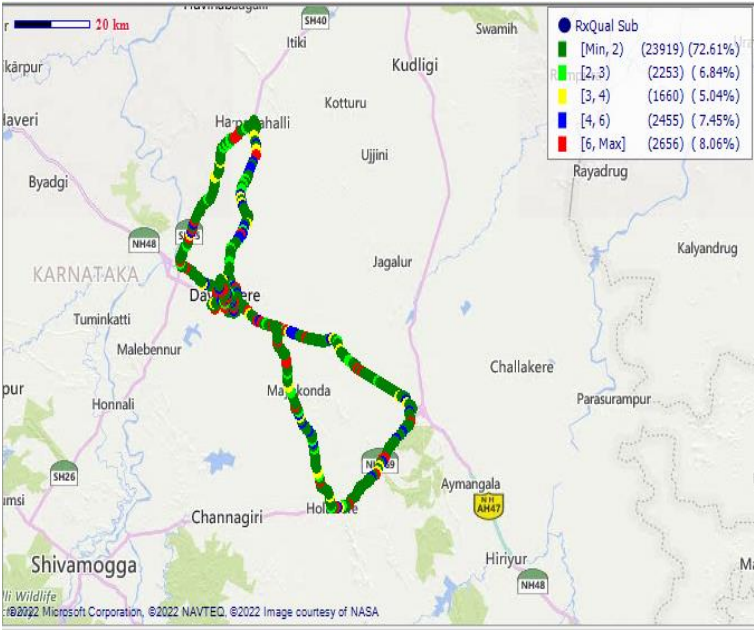
II. Quality Details

VIL

Technology	Rx Quality %
2G	91.94
4G	95.37

2G

4G

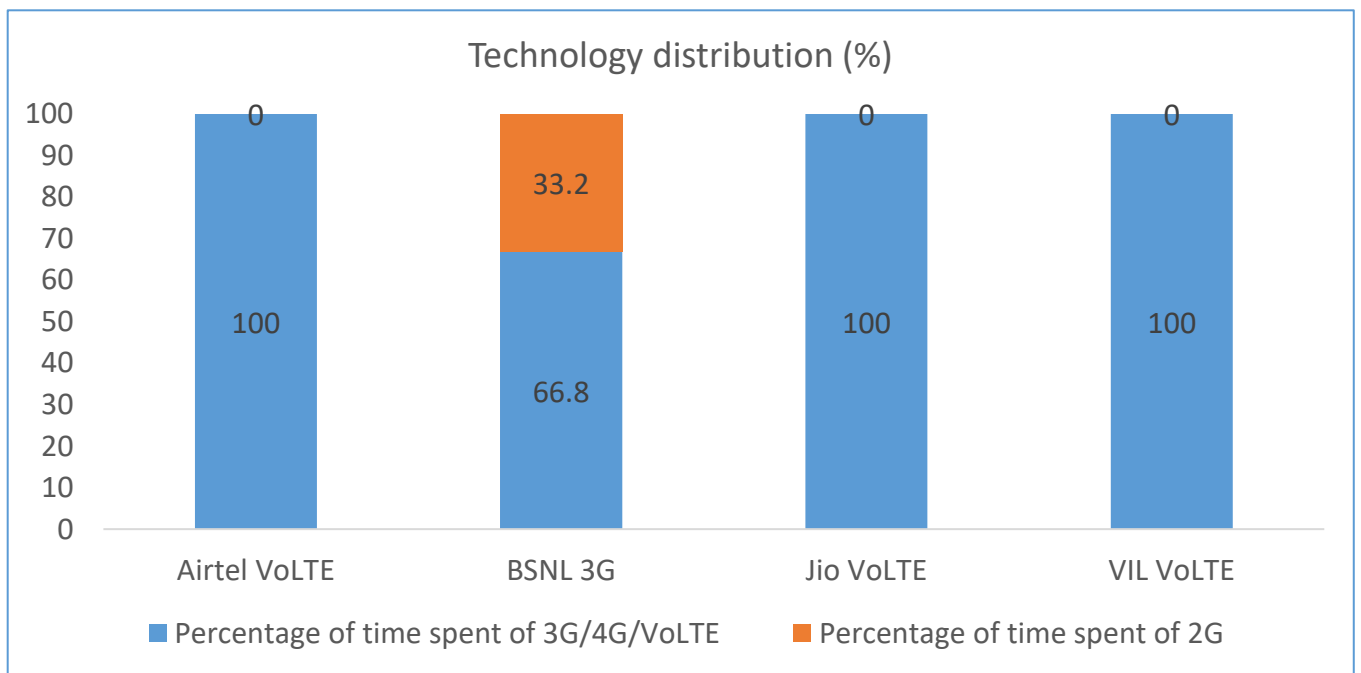


Overall Rx Quality	# Samples	% PDF
(Min, <=2)	23919	72.61
(2, <=3)	2253	6.84
(3, <=4)	1660	5.04
(4, <=5)	2455	7.45
(5, <=Max)	2656	8.06
Total	32943	100

Overall SINR	# Samples	% PDF
(Min, <=0)	2837	4.63
(0, <=5)	12097	19.72
(5, <=10)	16819	27.42
(10, <=15)	18049	29.43
(15, <=Max)	11527	18.8
Total	61329	100

III. Technology Details

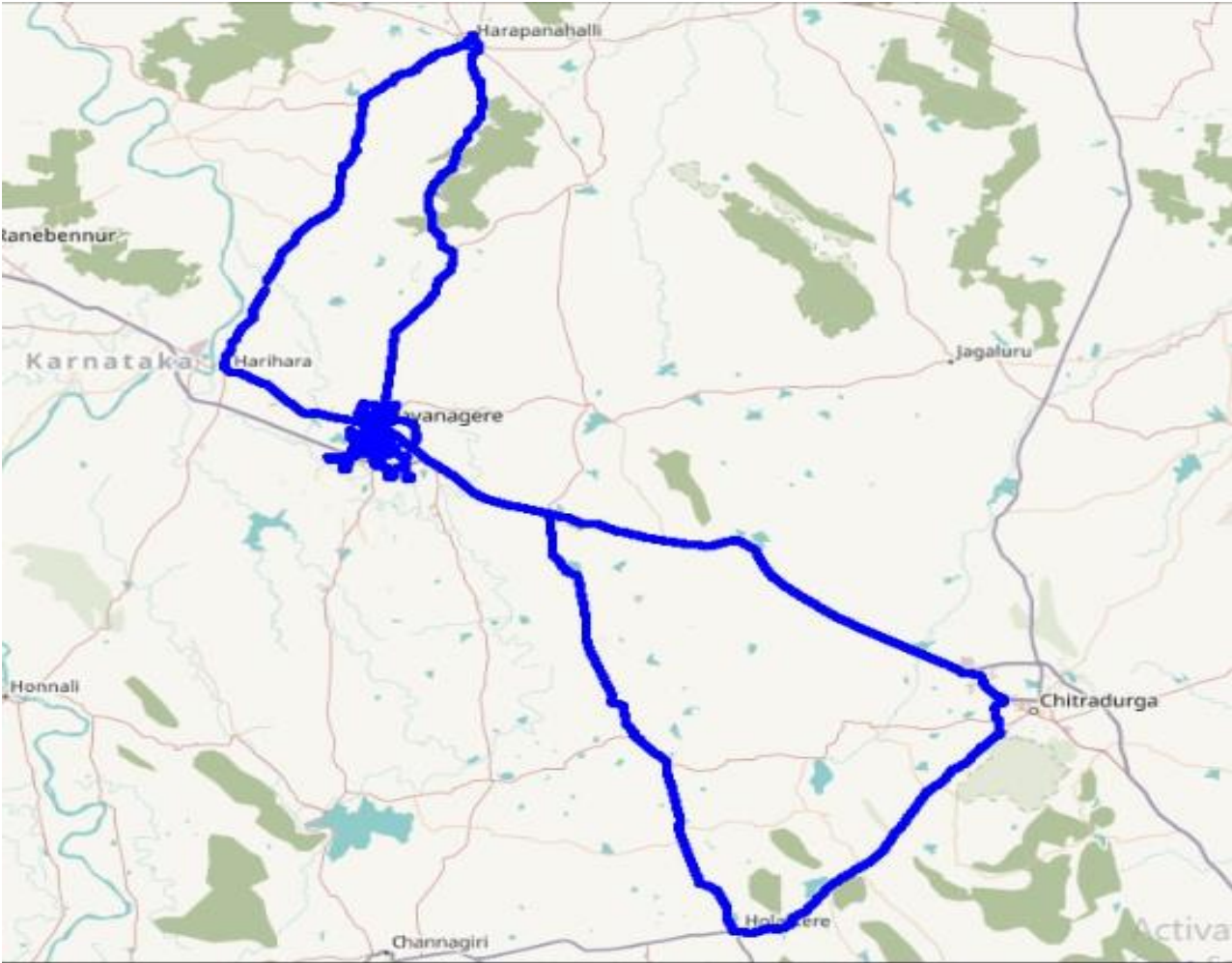
TSP	Percentage of time spent on 3G/4G/4G
Airtel 4G	100
BSNL 3G	66.8
Jio 4G	100
VIL 4G	100



III. Technology Details

Airtel

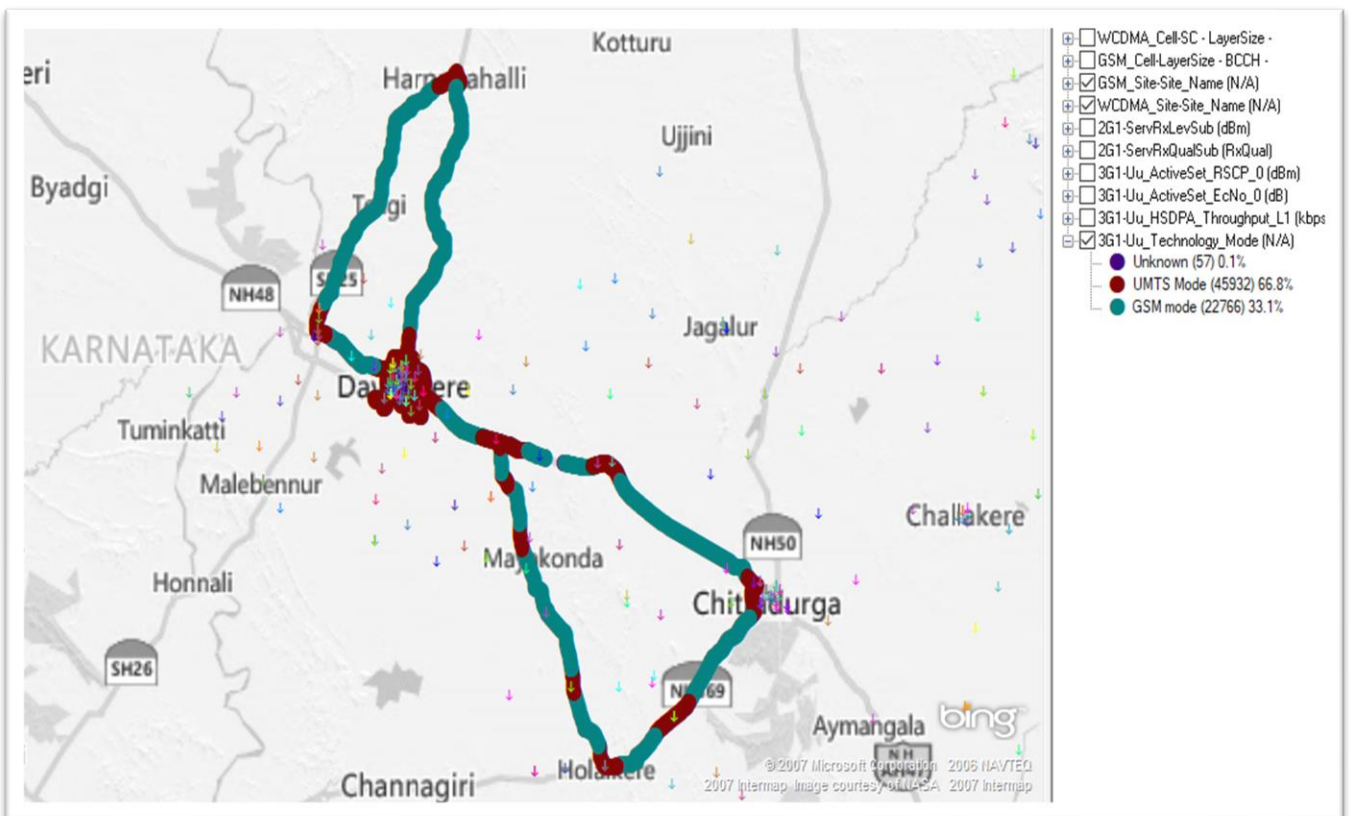
Technology	Time Spent on 4G
2G	100



III. Technology Details

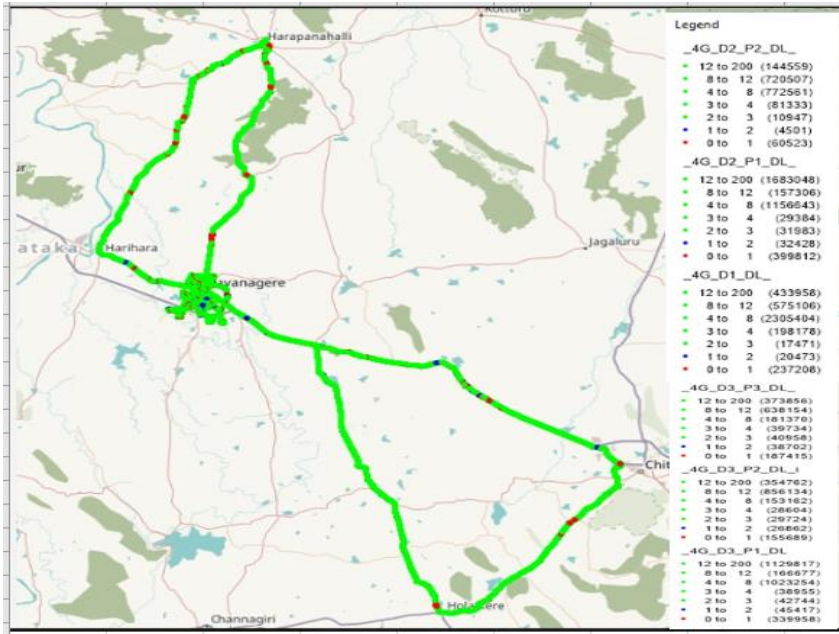
BSNL

Technology	Time Spent
3G	66.80

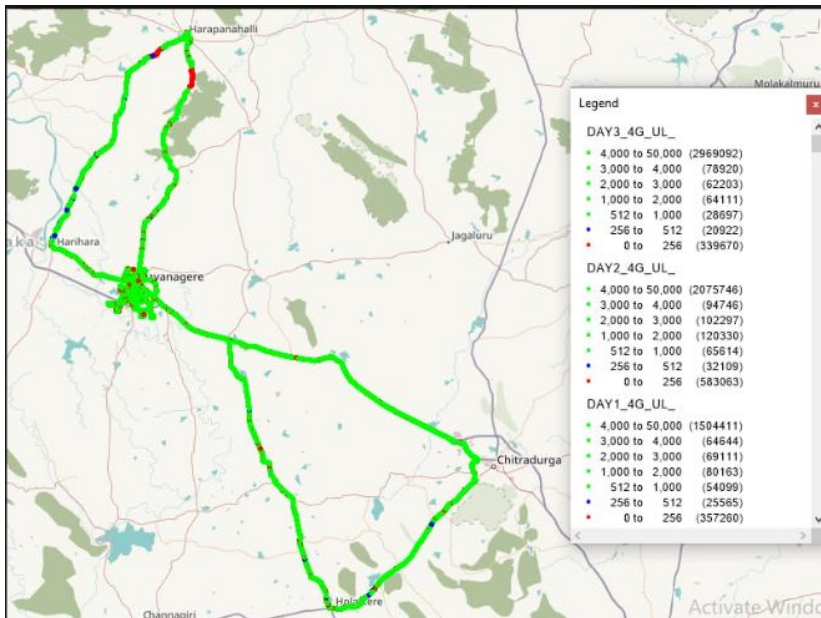


IV. Dynamic Data Test (Data Test on Move) - 4G DL/UL Details

Airtel



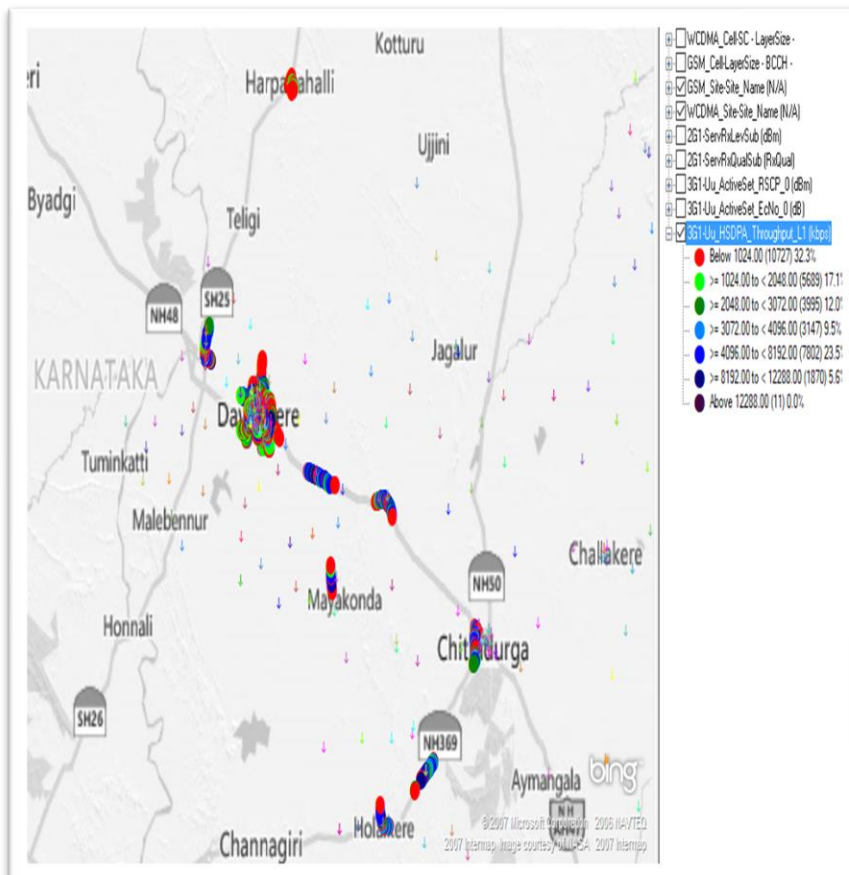
DL throughput	No. of Samples	%
0 to 1 Mbps	1380605	9.23
1 to 2 Mbps	168383	1.13
2 to 3 Mbps	173827	1.16
3 to 4 Mbps	416188	2.78
4 to 8 Mbps	5592394	37.37
8 to 12 Mbps	3113884	20.81
>12 Mbps	4120000	27.53
Total	14965281	100



UL throughput	No. of samples	%
0 to 0.256 Mbps	1279993	14.6
0.256 to 0.512 Mbps	78596	0.9
0.512 Mbps to 1 Mbps	148410	1.7
1 to 2 Mbps	264604	3.0
2 to 3 Mbps	233611	2.7
3 to 4 Mbps	238310	2.7
>4Mbps	6549249	74.5
Total	8792773	100

IV. Dynamic Data Test(Data Test on Move)- 3G DL/UL Details

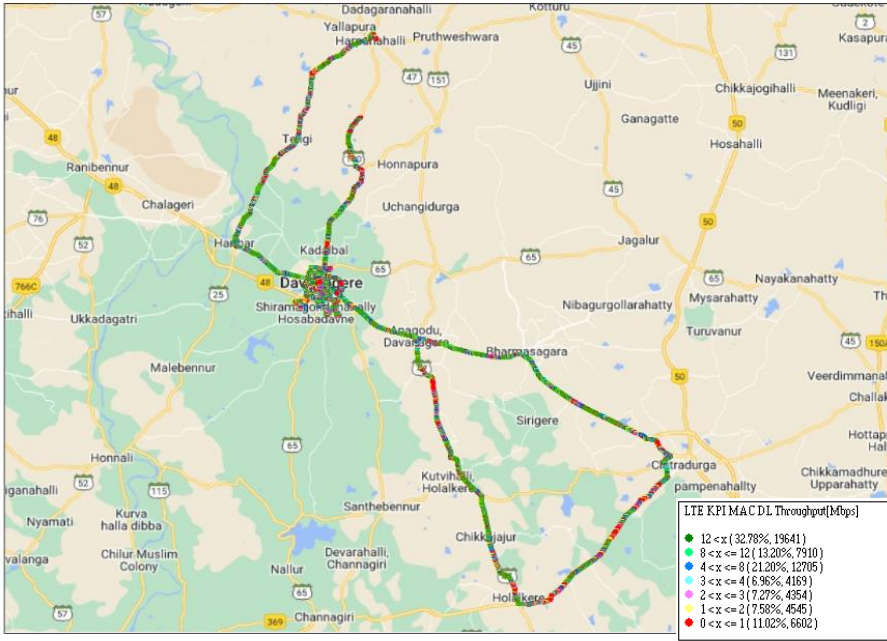
BSNL



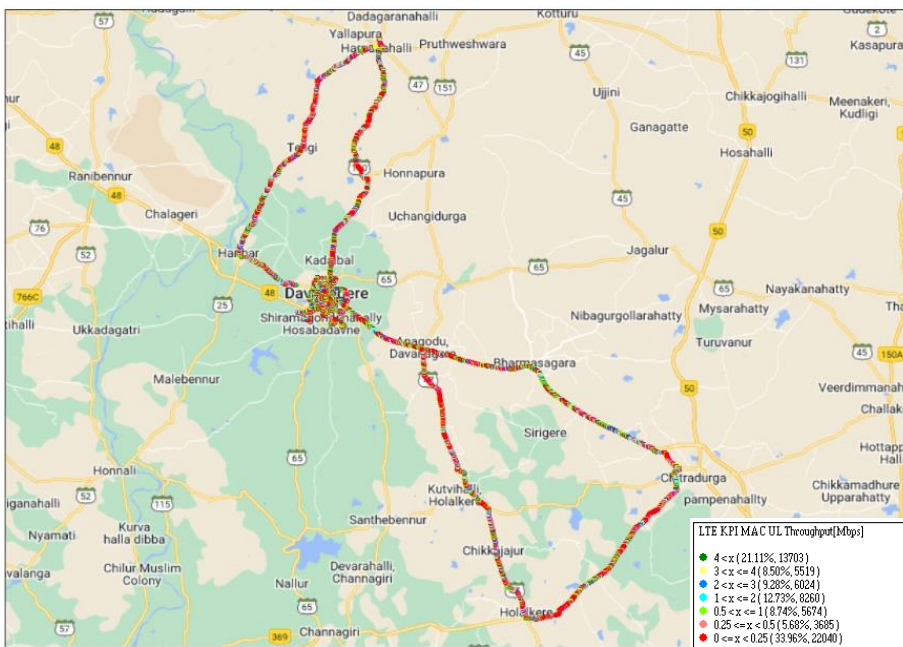
DL throughput	No. of Samples	%
0 to 1 Mbps	10727	32.3
1 to 2 Mbps	5689	17.1
2 to 3 Mbps	3995	12
3 to 4 Mbps	3147	9.5
4 to 8 Mbps	7802	23.5
8 to 12 Mbps	1870	5.6
>12 Mbps	11	0
Total	33241	100

IV. Dynamic Data Test(Data Test on Move)- 4G DL/UL Details

JIO



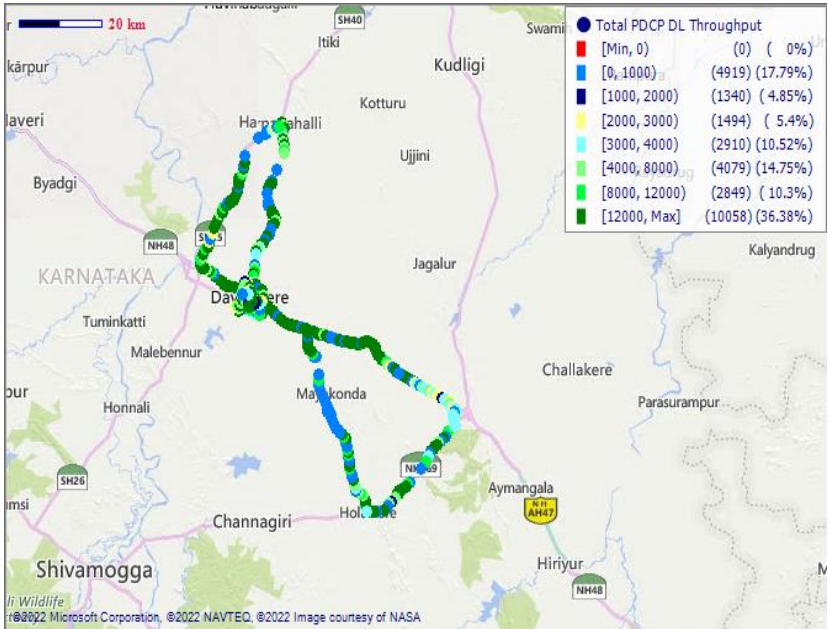
DL throughput	No. of Samples	%
0 to 1 Mbps	6602	11.02
1 to 2 Mbps	4545	7.58
2 to 3 Mbps	4354	7.27
3 to 4 Mbps	4169	6.96
4 to 8 Mbps	12705	21.20
8 to 12 Mbps	7910	13.20
>12 Mbps	19641	32.78
Total	59926	100



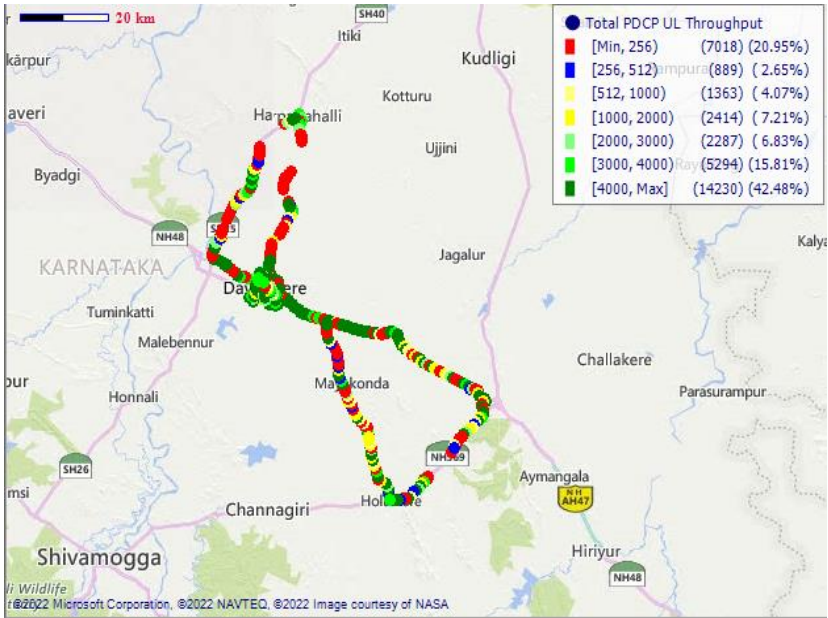
Upload throughput	No. of samples	%
0 to 256 kbps Mbps	22040	33.96
250 to 512 kbps	3685	5.68
512 Kbps to 1 Mbps	5674	8.74
1 to 2 Mbps	8260	12.73
2 to 3 Mbps	6024	9.28
3 to 4 Mbps	5519	8.50
>4Mbps	13703	21.11
Total	64905	100

IV. Dynamic Data Test (Data Test on Move)- 4G DL/UL Details

VIL



DL throughput	No. of Samples	%
0 to 1 Mbps	4919	17.79
1 to 2 Mbps	1340	4.85
2 to 3 Mbps	1494	5.4
3 to 4 Mbps	2910	10.52
4 to 8 Mbps	4079	14.75
8 to 12 Mbps	2849	10.3
>12 Mbps	10058	36.38
Total	27649	99.99



Upload throughput	No. of samples	%
0 to 256 kbps	7018	20.95
250 to 512 kbps	889	2.65
512 Kbps to 1 Mbps	1363	4.07
1 to 2 Mbps	2414	7.21
2 to 3 Mbps	2287	6.83
3 to 4 Mbps	5294	15.81
>4Mbps	14230	42.48
Total	33495	100

Techology-2G	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed	0.23	0.16	0.19	0.25	0.2	0.18
Upload Speed	0.1	0.15	0.11	0.12	0.13	0.12
Latency	N.A	N.A	N.A	N.A	N.A	N.A

Sub Registrar-Davanagere

RTO -Davanagere

C G Hospital-Davanagere

Your Result

N.A. Date: 21/07/22
Time: 10:23 AM
Lat: 14.47135
Long: 75.89940

EDGE -61 dBm

Download Speed 0.23 Mbps	Upload Speed 0.10 Mbps
Network Delay N.A. Ms	Packet Loss N.A. %

TEST AGAIN SEND TO TRAI

Your Result

AIRTEL Date: 21/07/22
Time: 12:13 PM
Lat: 14.48005
Long: 75.90720

EDGE -51 dBm

Download Speed 0.16 Mbps	Upload Speed 0.15 Mbps
Network Delay N.A. Ms	Packet Loss N.A. %

TEST AGAIN SEND TO TRAI

Your Result

AIRTEL Date: 21/07/22
Time: 02:16 PM
Lat: 14.45742
Long: 75.91901

EDGE -51 dBm

Download Speed 0.19 Mbps	Upload Speed 0.11 Mbps
Network Delay N.A. Ms	Packet Loss 88 %

TEST AGAIN SEND TO TRAI

Sri Anjaneya Swamy Temple

KSRTC Bus Stand -Davanagere

Jain Institute Of Tech -Davanagere

Your Result

N.A. Date: 21/07/22
Time: 03:53 PM
Lat: 14.44802
Long: 75.91163

EDGE -67 dBm

Download Speed 0.25 Mbps	Upload Speed 0.12 Mbps
Network Delay N.A. Ms	Packet Loss N.A. %

TEST AGAIN SEND TO TRAI

Your Result

N.A. Date: 21/07/22
Time: 05:19 PM
Lat: 14.46059
Long: 75.93029

EDGE -57 dBm

Download Speed 0.20 Mbps	Upload Speed 0.13 Mbps
Network Delay N.A. Ms	Packet Loss N.A. %

TEST AGAIN SEND TO TRAI

Your Result

N.A. Date: 21/07/22
Time: 05:53 PM
Lat: 14.43851
Long: 75.95122

EDGE -61 dBm

Download Speed 0.18 Mbps	Upload Speed 0.12 Mbps
Network Delay N.A. Ms	Packet Loss N.A. %

TEST AGAIN SEND TO TRAI

Techology-4G/VoLTE	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed	22.22	61.05	55.03	29.32	40.74	18.15
Upload Speed	8.23	7.47	8.06	25.84	8.49	5.5
Latency	N.A	N.A	N.A	N.A	N.A	N.A

Sub Registrar-Davanagere

Your Result

AIRTEL Date 21/07/22
Time 10:41 AM
LTE Lat. 14.47135
-87 dBm Long. 75.89944

Download Speed **22.22** Mbps
Upload Speed **8.23** Mbps

Network Delay **N.A.** Ms
Packet Loss **N.A.** %

RTO -Davanagere

Your Result

AIRTEL Date 21/07/22
Time 12:15 PM
LTE Lat. 14.47911
-77 dBm Long. 75.90665

Download Speed **61.05** Mbps
Upload Speed **7.47** Mbps

Network Delay **N.A.** Ms
Packet Loss **N.A.** %

C G Hospital-Davanagere

Your Result

AIRTEL Date 21/07/22
Time 02:08 PM
LTE Lat. 14.45709
-79 dBm Long. 75.91783

Download Speed **55.03** Mbps
Upload Speed **8.06** Mbps

Network Delay **N.A.** Ms
Packet Loss **N.A.** %

Sri Anjaneya Swamy Temple

Your Result

N.A. Date 21/07/22
Time 03:51 PM
LTE Lat. 14.44833
-71 dBm Long. 75.91092

Download Speed **29.32** Mbps
Upload Speed **25.84** Mbps

Network Delay **N.A.** Ms
Packet Loss **N.A.** %

KSRTC Bus Stand -Davanagere

Your Result

AIRTEL Date 21/07/22
Time 04:35 PM
LTE Lat. 14.46071
-71 dBm Long. 75.93059

Download Speed **40.74** Mbps
Upload Speed **8.49** Mbps

Network Delay **N.A.** Ms
Packet Loss **N.A.** %

Jain Institute Of Tech -Davanagere

Your Result

AIRTEL Date 21/07/22
Time 06:00 PM
LTE Lat. 14.43576
-87 dBm Long. 75.95843

Download Speed **18.15** Mbps
Upload Speed **5.50** Mbps

Network Delay **N.A.** Ms
Packet Loss **N.A.** %

Technology - 2G / GSM	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed in Mbps	0.09	0.04	0.08	0.03	0.07	0.03
Upload Speed in Mbps	0.06	0.03	0.07	0.01	0.04	0.02
Latency	NA	NA	NA	NA	NA	NA

Sub Registrar-Davanagere

Your Result

N.A. Date 21/07/22
Time 10:16 AM
EDGE Lat. 14.47133
-75 dBm Long. 75.89941

Download Speed: **0.09** Mbps
Upload Speed: **0.06** Mbps

Network Delay: **N.A.** Ms
Packet Loss: **N.A.** %

TEST AGAIN SEND TO TRAI

RTO -Davanagere

Your Result

N.A. Date 21/07/22
Time 12:24 PM
EDGE Lat. 14.47781
-65 dBm Long. 75.90648

Download Speed: **0.04** Mbps
Upload Speed: **0.03** Mbps

Network Delay: **N.A.** Ms
Packet Loss: **N.A.** %

TEST AGAIN SEND TO TRAI

C G Hospital-Davanagere

Your Result

N.A. Date 21/07/22
Time 02:01 PM
EDGE Lat. 14.45724
-79 dBm Long. 75.91491

Download Speed: **0.08** Mbps
Upload Speed: **0.07** Mbps

Network Delay: **N.A.** Ms
Packet Loss: **N.A.** %

TEST AGAIN SEND TO TRAI

Sri Anjaneya Swamy Temple

Your Result

CELLONE Date 21/07/22
Time 07:39 PM
EDGE Lat. 14.44990
-63 dBm Long. 75.91054

Download Speed: **0.03** Mbps
Upload Speed: **0.01** Mbps

Network Delay: **N.A.** Ms
Packet Loss: **N.A.** %

TEST AGAIN SEND TO TRAI

KSRTC Bus Stand -Davanagere

Your Result

N.A. Date 21/07/22
Time 05:28 PM
EDGE Lat. 14.46770
-51 dBm Long. 75.92119

Download Speed: **0.07** Mbps
Upload Speed: **0.04** Mbps

Network Delay: **N.A.** Ms
Packet Loss: **N.A.** %

TEST AGAIN SEND TO TRAI

Jain Institute Of Tech -Davanagere

Your Result

N.A. Date 21/07/22
Time 06:31 PM
EDGE Lat. 14.43577
-71 dBm Long. 75.95979

Download Speed: **0.03** Mbps
Upload Speed: **0.02** Mbps

Network Delay: **N.A.** Ms
Packet Loss: **N.A.** %

TEST AGAIN SEND TO TRAI

Technology - 3G / UMTS	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed in Mbps	2.09	4.18	3.70	1.76	2.12	1.20
Upload Speed in Mbps	1.32	0.83	1.55	0.30	1.55	0.20
Latency	NA	NA	NA	NA	NA	NA

Sub Registrar-Davanagere

RTO -Davanagere

C G Hospital-Davanagere

Sri Anjaneya Swamy Temple

KSRTC Bus Stand -Davanagere

Jain Institute Of Tech -Davanagere

V. TRAI My Speed App Test Details-4G

Techology-4G/VoLTE	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed	27.83	19.68	9.91	27.73	25.30	20.01
Upload Speed	6.54	8.94	6.19	4.70	6.57	22.57
Latency	40.1	38.1	48.3	37.4	34.6	27.3

Sub Registrar-Davanagere

JIO Date: 21/07/22
Time: 10:49 AM
LTE -92 dBm Lat: 14.47138 Long: 75.89927

Download Speed 27.83 Mbps	Upload Speed 6.54 Mbps
Network Delay 40.1 Ms	Packet Loss 0 %

RTO -Davanagere

JIO Date: 21/07/22
Time: 12:03 PM
LTE -78 dBm Lat: 14.47801 Long: 75.90649

Download Speed 19.68 Mbps	Upload Speed 8.94 Mbps
Network Delay 38.1 Ms	Packet Loss 0 %

C G Hospital-Davanagere

JIO Date: 21/07/22
Time: 02:10 PM
LTE -86 dBm Lat: 14.45845 Long: 75.91760

Download Speed 9.91 Mbps	Upload Speed 6.19 Mbps
Network Delay 48.3 Ms	Packet Loss 0 %

Sri Anjaneya Swamy Temple

JIO Date: 21/07/22
Time: 03:30 PM
LTE -74 dBm Lat: 14.44853 Long: 75.91115

Download Speed 27.73 Mbps	Upload Speed 4.70 Mbps
Network Delay 37.4 Ms	Packet Loss 0 %

KSRTC Bus Stand -Davanagere

Your Result
JIO Date: 21/07/22
Time: 04:35 PM
LTE -79 dBm Lat: 14.46032 Long: 75.93063

Download Speed 25.30 Mbps	Upload Speed 6.57 Mbps
Network Delay 34.6 Ms	Packet Loss 0 %

Jain Institute Of Tech -Davanagere

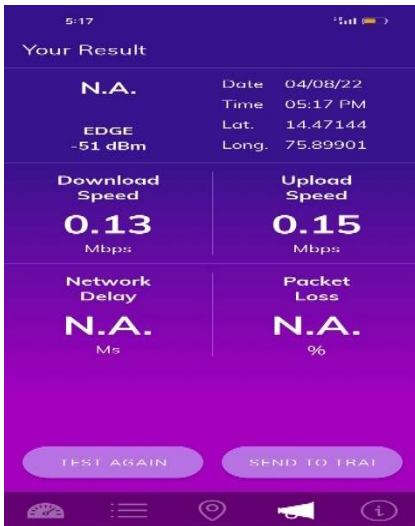
JIO Date: 21/07/22
Time: 05:56 PM
LTE -67 dBm Lat: 14.43232 Long: 75.96066

Download Speed 20.01 Mbps	Upload Speed 22.57 Mbps
Network Delay 27.3 Ms	Packet Loss 0 %

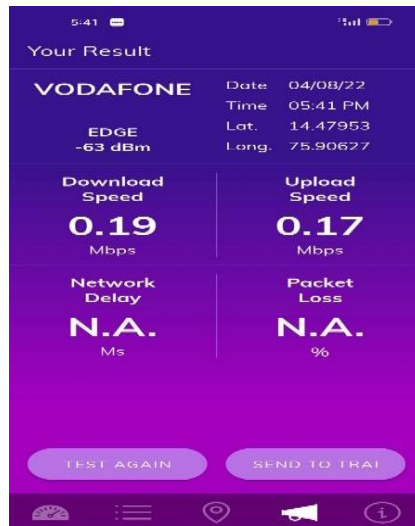
V. TRAI MySpeed App Test Details-2G

Techology-2G/GSM	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed(Mbps)	0.13	0.19	0.22	0.20	0.20	0.26
Upload Speed(Mbps)	0.15	0.17	0.22	0.20	0.10	0.20
Latency	NA	NA	NA	NA	NA	NA

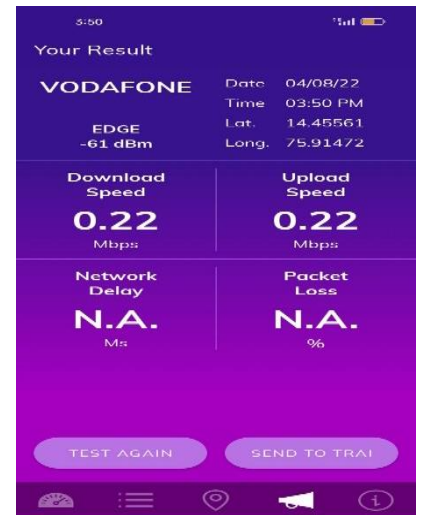
Sub Registrar-Davanagere



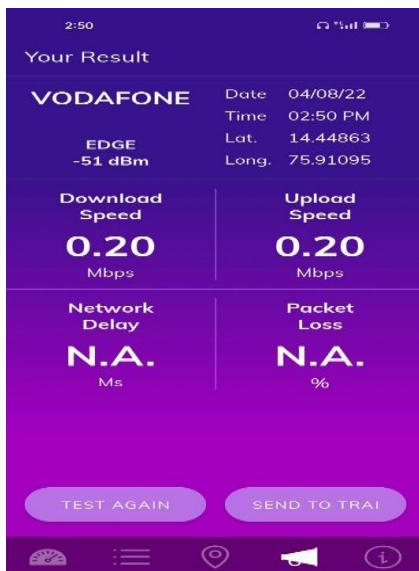
RTO -Davanagere



C G Hospital-Davanagere



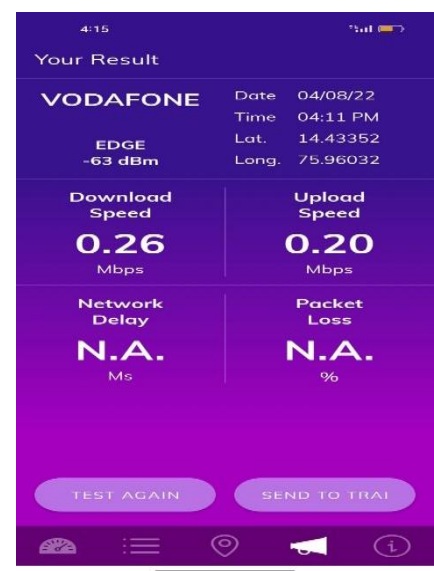
Sri Anjaneya Swamy Temple



KSRTC Bus Stand -Davanagere



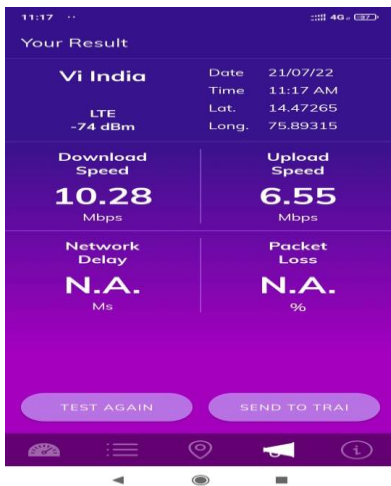
Jain Institute Of Tech -Davanagere



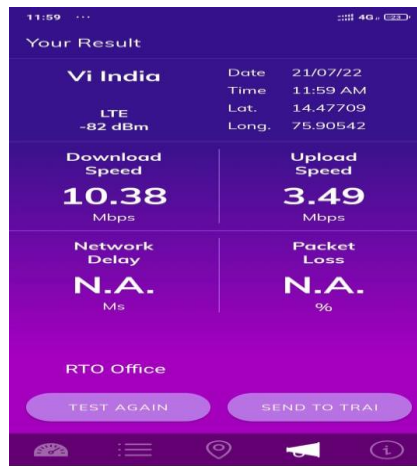
V. TRAI My Speed App Test Details-4G

Techology-4G/VoLTE	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed	10.28	10.38	11.18	16.96	36.67	30.74
Upload Speed	6.55	3.49	16.33	10.36	12.46	14.53
Latency	NA	NA	NA	NA	NA	NA

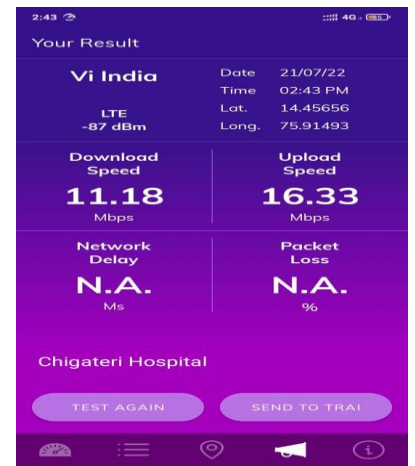
Sub Registrar-Davanagere



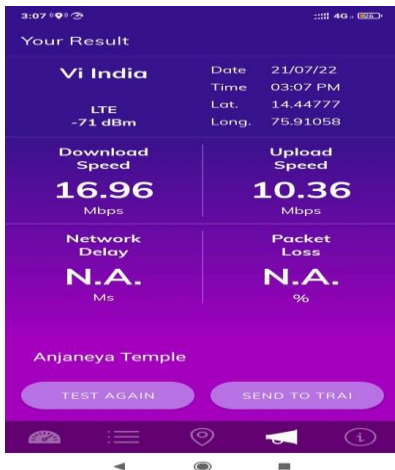
RTO -Davanagere



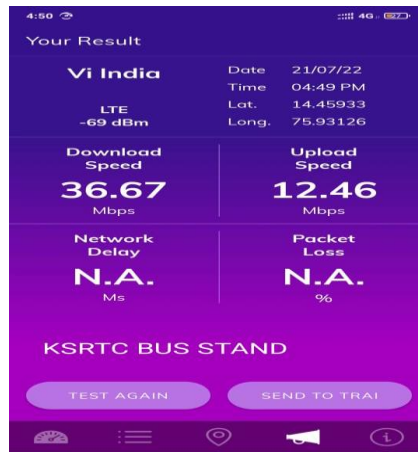
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