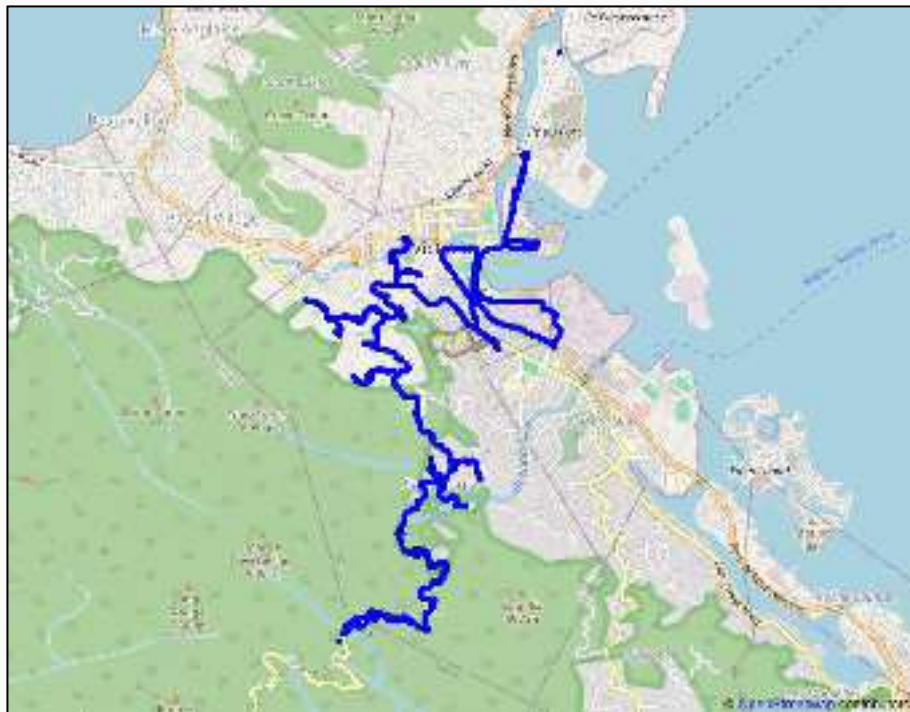


Seychelles Test Drive

Bel Air Phase-2 Report

Phase-1 Dates- 07th Oct 2024



Route Name: Mahe

District Name: Bel Air

Region: Central

Island: Mahé

Drive Test Distance: 33.45 kms

Drive Test Duration: 01 hours,08 minutes,35 seconds

Phase-2 Dates- 21st Oct 2024



Route Name: Mahe

District Name: Bel Air

Region: Central

Island: Mahé

Drive Test Distance: 29.47 kms

Drive Test Duration: 01 hours,26 minutes,12 seconds

Phase-1

Short Call Findings:

- The Call Setup Success Rate for Airtel is (97.70%), while for Operator CWS it is (91.67%).
- The Call Setup Time for Airtel is (6.76s), while for Operator CWS it is (8.17s)

Long Call Findings :

- The Call Retainability for Airtel is (95.00%), while for CWS it is (100.00%).
- The MOS quality observed for Airtel is (3.10), and for CWS, it is (3.35).

Phase-2

Short Call Findings:

- The Call Setup Success Rate for Airtel is (95.41%), while for Operator CWS it is (94.34%).
- The Call Setup Time for Airtel is (6.53s) , while for Operator CWS it is (7.86s)

Long Call Findings :

- The Call Retainability for Airtel is (89.29%), while for CWS it is (96.30%).
- The MOS quality observed for Airtel is (3.06), and for CWS, it is (3.34).

Phase-1

4G Preferred Data Findings:

- Airtel SFTP DL is (8.99 Mbps), while SFTP UL is (4.82 Mbps), CWS SFTP DL is (4.87 Mbps), while SFTP UL is (2.80 Mbps)
- Airtel HTTP DL is (10.86 Mbps), HTTP Capacity DL is (7.57 Mbps) ,HTTP UL is (5.45 Mbps) , and HTTP Capacity UL is (13.55 Mbps).
- CWS HTTP DL is (5.70 Mbps), HTTP Capacity DL is (11.12 Mbps) ,HTTP UL is (5.23Mbps) , and HTTP Capacity UL is (20.40 Mbps).
- On live web page testing for browsing, www.shein.com took (9.41s), www.nbs.gov.sc took (21.64s), and www.sbc.sc took (22.37s) on Airtel.
- On live web page testing for browsing, www.shein.com took (13.18s), www.nbs.gov.sc took (20.22s), and www.sbc.sc took (21.35s) on CWS.
- On static browsing, Kepler Webpage took (5.21s), and Kepler Mobile took (1.90s) on Airtel.
- On static browsing, Kepler Webpage took (46.55s), and Kepler Mobile took (2.91s) on CWS.
- YouTube average resolution in Airtel is (1000.60) pixels.
- YouTube average resolution in CWS is (913.95) pixels.
- Airtel scored 48.62% in Carrier Aggregation (CA).
- CWS scored 28.92% in Carrier Aggregation (CA).

Phase-2

4G Preferred Data Findings:

- Airtel SFTP DL is (10.01 Mbps), while SFTP UL is (4.78 Mbps), CWS SFTP DL is (4.55 Mbps), while SFTP UL is (2.58 Mbps)
- Airtel HTTP DL is (12.89 Mbps), HTTP Capacity DL is (22.23 Mbps) ,HTTP UL is (7.61 Mbps) , and HTTP Capacity UL is (15.17 Mbps).
- CWS HTTP DL is (5.54 Mbps), HTTP Capacity DL is (10.14 Mbps) ,HTTP UL is (4.86 Mbps) , and HTTP Capacity UL is (10.07 Mbps).
- On live web page testing for browsing, www.shein.com took (7.52s), www.nbs.gov.sc took (19.51s), and www.sbc.sc took (18.92s) on Airtel.
- On live web page testing for browsing, www.shein.com took (9.49s), www.nbs.gov.sc took (17.92s), and www.sbc.sc took (17.68s) on CWS.
- On static browsing, Kepler Webpage took (5.67s), and Kepler Mobile took (2.16s) on Airtel.
- On static browsing, Kepler Webpage took (5.57s), and Kepler Mobile took (2.81s) on CWS.
- YouTube average resolution in Airtel is (1010.07) pixels.
- YouTube average resolution in CWS is (1027.78) pixels.
- Airtel scored 50.57% in Carrier Aggregation (CA).
- CWS scored 28.57% in Carrier Aggregation (CA).

Phase-1

3G Preferred Data Test Findings:

- Airtel SFTP DL is (3.76 Mbps), while SFTP UL is (1.42 Mbps), CWS SFTP DL is (3.26 Mbps), while SFTP UL is (0.80 Mbps)
- Airtel HTTP DL is (3.13 Mbps), HTTP Capacity DL is (4.19 Mbps) ,HTTP UL is (2.40 Mbps) , and HTTP Capacity UL is (3.91 Mbps).
- CWS HTTP DL is (2.85 Mbps), HTTP Capacity DL is (6.85 Mbps) ,HTTP UL is (0.96 Mbps) , and HTTP Capacity UL is (3.65 Mbps).
- On live web page testing for browsing, www.shein.com took (17.64s), www.nbs.gov.sc took (16.65s), and www.sbc.sc took (20.07s) on Airtel.
- On live web page testing for browsing, www.shein.com took (11.52s), www.nbs.gov.sc took (11.09s), and www.sbc.sc took (18.92s) on CWS.
- On static browsing, Kepler Webpage took (5.26s), and Kepler Mobile took (3.03s) on Airtel.
- On static browsing, Kepler Webpage took (8.06s), and Kepler Mobile took (4.03s) on CWS.
- YouTube average resolution in Airtel is (938.59) pixels.
- YouTube average resolution in CWS is (941.50) pixels.

Phase-2

3G Preferred Data Test Findings:

- Airtel SFTP DL is (4.48 Mbps), while SFTP UL is (1.53 Mbps), CWS SFTP DL is (2.88 Mbps), while SFTP UL is (0.77 Mbps)
- Airtel HTTP DL is (3.76 Mbps), HTTP Capacity DL is (5.01 Mbps) ,HTTP UL is (1.91 Mbps) , and HTTP Capacity UL is (4.53 Mbps).
- CWS HTTP DL is (2.21 Mbps), HTTP Capacity DL is (5.12 Mbps) ,HTTP UL is (1.99 Mbps) , and HTTP Capacity UL is (3.78 Mbps).
- On live web page testing for browsing, www.shein.com took (13.03s), www.nbs.gov.sc took (16.32s), and www.sbc.sc took (17.71s) on Airtel.
- On live web page testing for browsing, www.shein.com took (12.33s), www.nbs.gov.sc took (11.67s), and www.sbc.sc took (15.67s) on CWS.
- On static browsing, Kepler Webpage took (4.95s), and Kepler Mobile took (3.18s) on Airtel.
- On static browsing, Kepler Webpage took (7.84s), and Kepler Mobile took (2.61s) on CWS.
- YouTube average resolution in Airtel is (986.98) pixels.
- YouTube average resolution in CWS is (1080.00) pixels.

Short Call

Call Duration	10 Seconds
Setup and Release phase	30 seconds
Minimum pause between calls	30 seconds

Long Call

Call Duration	120 Seconds
Setup and Release phase	30 seconds
Minimum between calls	30 seconds

DATA	Test Type and Timeout	Technology 3G Preferred	Technology 4G Preferred
POP always on. ICMP PAYLOAD PING 800 BYTES			
1	FILE TRANSFER DOWNLOAD	FTP DL (3MB)	FTP DL (5MB)
	135s	wait 10s	wait 10s
2	FILE TRANSFER UPLOAD	FTP UL (1MB)	FTP UL (3MB)
	135s	wait 10s	wait 10s
3	FILE TRANSFER DOWNLOAD	HTTP Get (3MB)	HTTP Get (5MB)
	135s	wait 10s	wait 10s
4	FILE TRANSFER UPLOAD	HTTP Put (1MB)	HTTP Put (3MB)
	135s	wait 10s	wait 10s
5	ICMP PING 32 BYTES	Ping (32 bytes) *5	Ping (32 bytes) *5
		wait 10s	wait 10s
6	YOUTUBE STREAMING	Video: YouTube 60sec	Video: YouTube 60sec
	95 seconds	wait 10s	wait 10s
7	KEPLER WEB BROWSING	HTTPS Browsing: Kepler	HTTPS Browsing: Kepler
	45s	wait 10s	wait 10s
8	LIVE WEB BROWSING	www.shein.com, www.nbs.gov.sc, www.sbc.sc	www.shein.com, www.nbs.gov.sc, www.sbc.sc
	45s	wait 10s	wait 10s
9	KEPLER MOBILE WEB BROWSING	HTTPS Browsing: Kepler Mobile	HTTPS Browsing: Kepler Mobile
	45s	wait 10s	wait 10s
10	ICMP PING 32 BYTES	Ping (32 bytes) 5 www.google.com	Ping (32 bytes) 5 www.google.com
		wait 10s	wait 10s
11	FILE TRANSFER-CAPACITY DOWNLOAD	HTTP Get (500MB) Multiple files	HTTP Get (500MB) Multiple files
	10s fixed duration	wait 10s	wait 10s
12	FILE TRANSFER-CAPACITY UPLOAD	HTTP Put (500MB)-Multiple Files	HTTP Put (500MB)-Multiple Files
	10s fixed duration	wait 10s	wait 10s

VOICE TEST KPI STATISTICS (Short Call)

Phase-1

Short Call Statistics		
Short Call Scenario	Operator 1	Operator 2
Voice KPIs	Airtel	CWS
Call Attempt	87	84
Call Failed	2	7
Call Connected	85	77
CSSR[%]	97.70	91.67
USCSR[%]	2.30	8.33
CST [s] Alerting	6.76	8.17
CST [s]Connected	6.99	8.39

CSSR= Call Setup Success rate
 USCSR=Unsuccessful call setup ratio
 CST=Call setup time
 Call Setup Success Ratio >97%
 CRR= Call retainability ratio
 DCR=Dropped-call rate
 MOS=Mean Opinion Score
 Drop Call Ratio<2

Call Setup Time (s)	Operators		Rank	
	Airtel	CWS	Airtel	CWS
Overall CST (until ringing/alerting)	6.76	8.17	1	2
CS calls CST (until ringing/alerting)	11.82	5.48	2	1
CSFB calls CST (until ringing/alerting)	6.57	9.00	1	2
Overall CST (until Connect/Connect Acknowledge)	6.99	8.39	1	2
CS calls CST (until Connect/Connect Acknowledge)	12.08	5.71	2	1
CSFB calls CST (until Connect/Connect Acknowledge)	6.81	9.22	1	2

Phase-2

Short Call Statistics		
Short Call Scenario	Operator 1	Operator 2
Voice KPIs	Airtel	CWS
Call Attempt	109	106
Call Failed	5	6
Call Connected	104	100
CSSR[%]	95.41	94.34
USCSR[%]	4.59	5.66
CST [s] Alerting	6.53	7.86
CST [s]Connected	6.77	8.08

Call Setup Time (s)	Operators		Rank	
	Airtel	CWS	Airtel	CWS
Overall CST (until ringing/alerting)	6.53	7.86	1	2
CS calls CST (until ringing/alerting)	7.97	6.64	2	1
CSFB calls CST (until ringing/alerting)	6.46	8.11	1	2
Overall CST (until Connect/Connect Acknowledge)	6.77	8.08	1	2
CS calls CST (until Connect/Connect Acknowledge)	8.07	6.74	2	1
CSFB calls CST (until Connect/Connect Acknowledge)	6.70	8.34	1	2



VOICE TEST KPI STATISTICS (Long Call)

Phase-1

Long Call Statistics				
Long Call Scenario		Operator 1		Operator 2
Voice KPIs		Airtel		CWS
Call Connected		20		22
Call Dropped		1		0
Call Completed		19		22
CRR[%]		95.00		100.00
DCR[%]		5.00		0.00
MOS		3.10		3.35
	Airtel short call	CWS short call	Airtel long call	CWS long call
CSFB Calls	84	63	15	17
CS Calls	3	21	5	5
Handover Statistics			Airtel MO	CWS MO
Handover Attempt			24	69
Handover Failure			0	2
Handover Success			24	67
HOSR %			100.00	97.10

Phase-2

Long Call Statistics				
Long Call Scenario		Operator 1		Operator 2
Voice KPIs		Airte		CWS
Call Connected		28		27
Call Dropped		3		1
Call Completed		25		26
CRR[%]		89.29		96.30
DCR[%]		10.71		3.70
MOS		3.06		3.34
	Airtel short call	CWS short call	Airtel long call	CWS long call
CSFB Calls	102	89	24	19
CS Calls	7	17	4	8
Handover Statistics			Airtel MO	CWS MO
Handover Attempt			48	62
Handover Failure			8	0
Handover Success			40	62
HOSR %			83.33	100.00

		Phase-1				Phase-2			
DATA Scenario		Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	8.99	4.87	1	2	10.01	4.55	1	2
	SFTP UL(Mbps)	4.82	2.80	1	2	4.78	2.58	1	2
	HTTP DL(Mbps)	10.86	5.75	1	2	12.89	5.54	1	2
	HTTP UL(Mbps)	5.45	5.23	1	2	7.61	4.86	1	2
	HTTP Capacity DL(Mbps)	7.57	11.12	2	1	22.23	10.14	1	2
	HTTP Capacity UL(Mbps)	13.55	20.40	2	1	15.17	10.07	1	2
BROWSER	Overall Browser DL Time (s)	11.94	12.75	1	2	10.65	10.78	1	2
	Kepler Webpage DL Time (s)	5.21	6.55	1	2	5.67	5.57	2	1
	Mobile Kepler Webpage DL Time (s)	1.90	2.91	1	2	2.16	2.81	1	2
	www.shein.com Webpage DL Time (s)	9.41	13.18	1	2	7.52	9.49	1	2
	www.nbs.gov.sc Webpage DL Time (s)	21.64	20.22	2	1	19.51	17.92	2	1
	www.sbc.sc Webpage DL Time (s)	22.37	21.35	2	1	18.92	17.68	2	1
LATENCY	Avg Latency (ms)	292.69	253.14	2	1	289.00	231.04	2	1
	Median Latency (ms)	275	212	2	1	396	209	2	1
YOUTUBE	YouTube Access Time (s)	8.49	2.62	2	1	6.56	2.30	2	1
	YouTube Average Resolution (pixels)	1000.60	913.95	1	2	1010.07	1027.78	2	1
	YouTube Success Ratio [%]	83.33	100.00	2	1	100.00	85.71	1	2

Phase-1

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	9	10	81.82	100.00
	Failure	2	0	18.18	0.00
SFTP UL	Success	9	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	10	9	83.33	81.82
	Failure	2	2	16.67	18.18
HTTP UL	Success	11	10	91.67	90.91
	Failure	1	1	8.33	9.09
HTTP Capacity DL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	10	9	90.91	90.00
	Failure	1	1	9.09	10.00

Phase-2

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	13	10	86.67	90.91
	Failure	2	1	13.33	9.09
SFTP UL	Success	15	10	93.75	90.91
	Failure	1	1	6.25	9.09
HTTP DL	Success	16	12	100.00	92.31
	Failure	0	1	0.00	7.69
HTTP UL	Success	16	12	100.00	85.71
	Failure	0	2	0.00	14.29
HTTP Capacity DL	Success	15	13	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	15	13	100.00	100.00
	Failure	0	0	0.00	0.00

Phase-1

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	10	11	83.33	100.00
	Failure	2	0	16.67	0.00
Mobile Kepler	Success	11	9	100.00	90.00
	Failure	0	1	0.00	10.00
www.shein.com	Success	9	11	75.00	100.00
	Failure	3	0	25.00	0.00
www.nbs.gov.sc	Success	11	10	91.67	100.00
	Failure	1	0	8.33	0.00
www.sbc.sc	Success	9	9	75.00	90.00
	Failure	3	1	25.00	10.00

Phase-2

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	13	11	86.67	91.67
	Failure	2	1	13.33	8.33
Mobile Kepler	Success	14	12	100.00	92.31
	Failure	0	1	0.00	7.69
www.shein.com	Success	15	12	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	13	13	86.67	100.00
	Failure	2	0	13.33	0.00
www.sbc.sc	Success	14	11	93.33	84.62
	Failure	1	2	6.67	15.38

Phase-1

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	18	20
	Average Latency [ms]	260.94	250.65
	Median Latency [ms]	153	196
	Ping session status: Successful	18	20
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	3	1
	Packet Loss<1%	14.29	4.76
www.google.com	Average Latency [ms]	426.38	192.90
	Median Latency [ms]	420	177
	Ping session status: Successful	8	10
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	11.11	0.00
102.133.176.104	Average Latency [ms]	128.60	308.40
	Median Latency [ms]	123	242
	Ping session status: Successful	10	10
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	2	1
	Packet Loss<1%	16.67	9.09

Phase-2

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	29	24
	Average Latency [ms]	280.86	224.17
	Median Latency [ms]	394	200
	Ping session status: Successful	29	24
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	3.33	0.00
www.google.com	Average Latency [ms]	421.93	187.25
	Median Latency [ms]	410	167
	Ping session status: Successful	15	13
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	129.71	264.45
	Median Latency [ms]	132	233
	Ping session status: Successful	14	11
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	6.67	0.00



4G PREFERRED YOUTUBE COMPARISON

Phase-1

LTE YOUTUBE Success Ratio		
KPIs	Airtel 4G	CWS 4G
Attempt(Count)	12	11
Success(Count)	10	11
Failure(Count)	2	0
YouTube Access Time (s)	8.49	2.62
YouTube Average Resolution (pixels)	1000.60	913.95
YouTube Success Ratio [%]	83.33	100.00

Phase-2

LTE YOUTUBE Success Ratio		
KPIs	Airtel 4G	CWS 4G
Attempt(Count)	16	14
Success(Count)	16	12
Failure(Count)	0	2
YouTube Access Time (s)	6.56	2.30
YouTube Average Resolution (pixels)	1010.07	1027.78
YouTube Success Ratio [%]	100.00	85.71



DATA TEST KPI STATISTICS (3G Preferred)

		Phase-1				Phase-2			
DATA Scenario		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	3.76	3.26	1	2	4.48	2.88	1	2
	SFTP UL(Mbps)	1.42	0.80	1	2	1.53	0.77	1	2
	HTTP DL(Mbps)	3.13	2.85	1	2	3.76	2.21	1	2
	HTTP UL(Mbps)	2.40	0.96	1	2	1.91	1.99	2	1
	HTTP Capacity DL(Mbps)	4.19	6.85	2	1	5.01	5.12	2	1
	HTTP Capacity UL(Mbps)	3.91	3.65	1	2	4.53	3.78	1	2
BROWSER	Overall Browser DL Time (s)	11.74	10.45	2	1	10.84	10.03	2	1
	Kepler Webpage DL Time (s)	5.26	8.06	1	2	4.95	7.84	1	2
	Mobile Kepler Webpage DL Time (s)	3.03	4.03	1	2	3.18	2.61	2	1
	www.shein.com Webpage DL Time (s)	17.64	11.52	2	1	13.03	12.33	2	1
	www.nbs.gov.sc Webpage DL Time (s)	16.65	11.09	2	1	16.32	11.67	2	1
	www.sbc.sc Webpage DL Time (s)	20.07	18.92	2	1	17.71	15.67	2	1
LATENCY	Avg Latency (ms)	310.65	197.49	2	1	318.21	221.54	2	1
	Median Latency (ms)	400	195	2	1	398	199	2	1
YOUTUBE	YouTube Access Time (s)	8.96	3.52	2	1	3.85	2.10	2	1
	YouTube Average Resolution (pixels)	938.59	941.5	2	1	986.98	1080.00	2	1
	YouTube Success Ratio [%]	80.00	80.00	1	1	85.71	81.82	1	2



3G PREFERRED THROUGHPUT FILE ACCESS

Phase-1

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	6	7	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	8	6	88.89	85.71
	Failure	1	1	11.11	14.29
HTTP DL	Success	10	8	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	8	5	80.00	50.00
	Failure	2	5	20.00	50.00
HTTP Capacity DL	Success	9	8	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	8	8	88.89	88.89
	Failure	1	1	11.11	11.11

Phase-2

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	10	7	100.00	87.50
	Failure	0	1	0.00	12.50
SFTP UL	Success	11	8	100.00	88.89
	Failure	0	1	0.00	11.11
HTTP DL	Success	14	8	100.00	88.89
	Failure	0	1	0.00	11.11
HTTP UL	Success	12	6	85.71	60.00
	Failure	2	4	14.29	40.00
HTTP Capacity DL	Success	12	9	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	12	10	92.31	100.00
	Failure	1	0	7.69	0.00

Phase-1

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	9	8	90.00	80.00
	Failure	1	2	10.00	20.00
Mobile Kepler	Success	10	8	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	9	6	100.00	66.67
	Failure	0	3	0.00	33.33
www.nbs.gov.sc	Success	7	8	70.00	80.00
	Failure	3	2	30.00	20.00
www.sbc.sc	Success	7	7	70.00	70.00
	Failure	3	3	30.00	30.00

Phase-2

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	11	8	84.62	88.89
	Failure	2	1	15.38	11.11
Mobile Kepler	Success	12	7	92.31	87.50
	Failure	1	1	7.69	12.50
www.shein.com	Success	12	7	100.00	87.50
	Failure	0	1	0.00	12.50
www.nbs.gov.sc	Success	10	5	100.00	83.33
	Failure	0	1	0.00	16.67
www.sbc.sc	Success	11	8	91.67	100.00
	Failure	1	0	8.33	0.00

Phase-1

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	13	15
	Average Latency [ms]	359.69	211.53
	Median Latency [ms]	413	175
	Ping session status: Successful	13	15
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	5	0
	Packet Loss<1%	27.78	0.00
www.google.com	Average Latency [ms]	430.00	141.13
	Median Latency [ms]	431	138
	Ping session status: Successful	8	8
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	247.20	292.00
	Median Latency [ms]	170	225
	Ping session status: Successful	5	7
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	5	0
	Packet Loss<1%	50.00	0.00

Phase-2

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	25	18
	Average Latency [ms]	316.68	260.44
	Median Latency [ms]	398	201
	Ping session status: Successful	25	18
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	2	0
	Packet Loss<1%	7.41	0.00
www.google.com	Average Latency [ms]	435.83	194.80
	Median Latency [ms]	411	141
	Ping session status: Successful	12	10
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	7.69	0.00
102.133.176.104	Average Latency [ms]	206.69	342.50
	Median Latency [ms]	136	243
	Ping session status: Successful	13	8
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	7.14	0.00



3G PREFERRED YOUTUBE COMPARISON

Phase-1

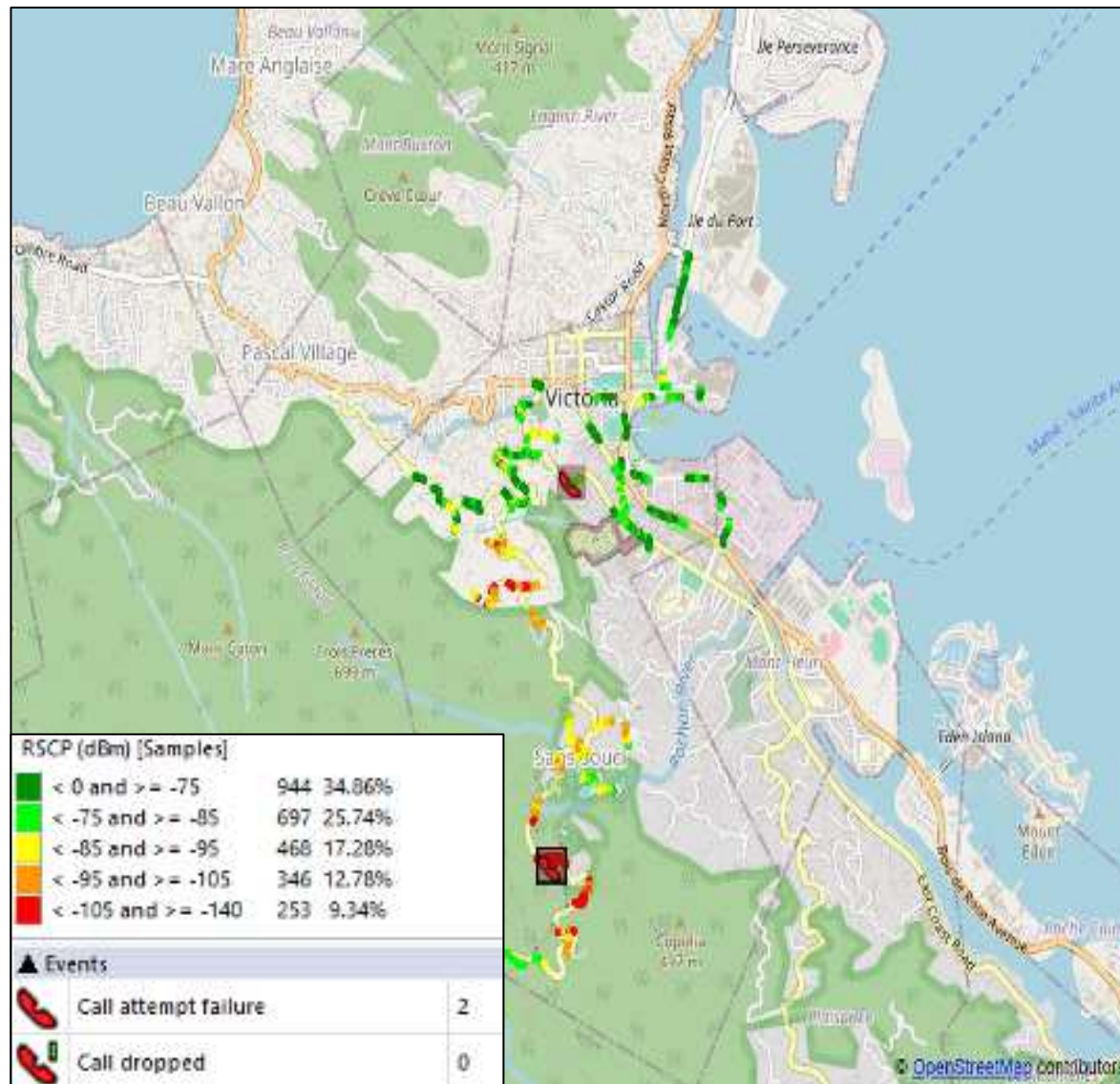
UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	10	10
Success(Count)	8	8
Failure(Count)	2	2
YouTube Access Time (s)	8.96	3.52
YouTube Average Resolution (pixels)	938.59	941.50
YouTube Success Ratio [%]	80.00	80.00

Phase-2

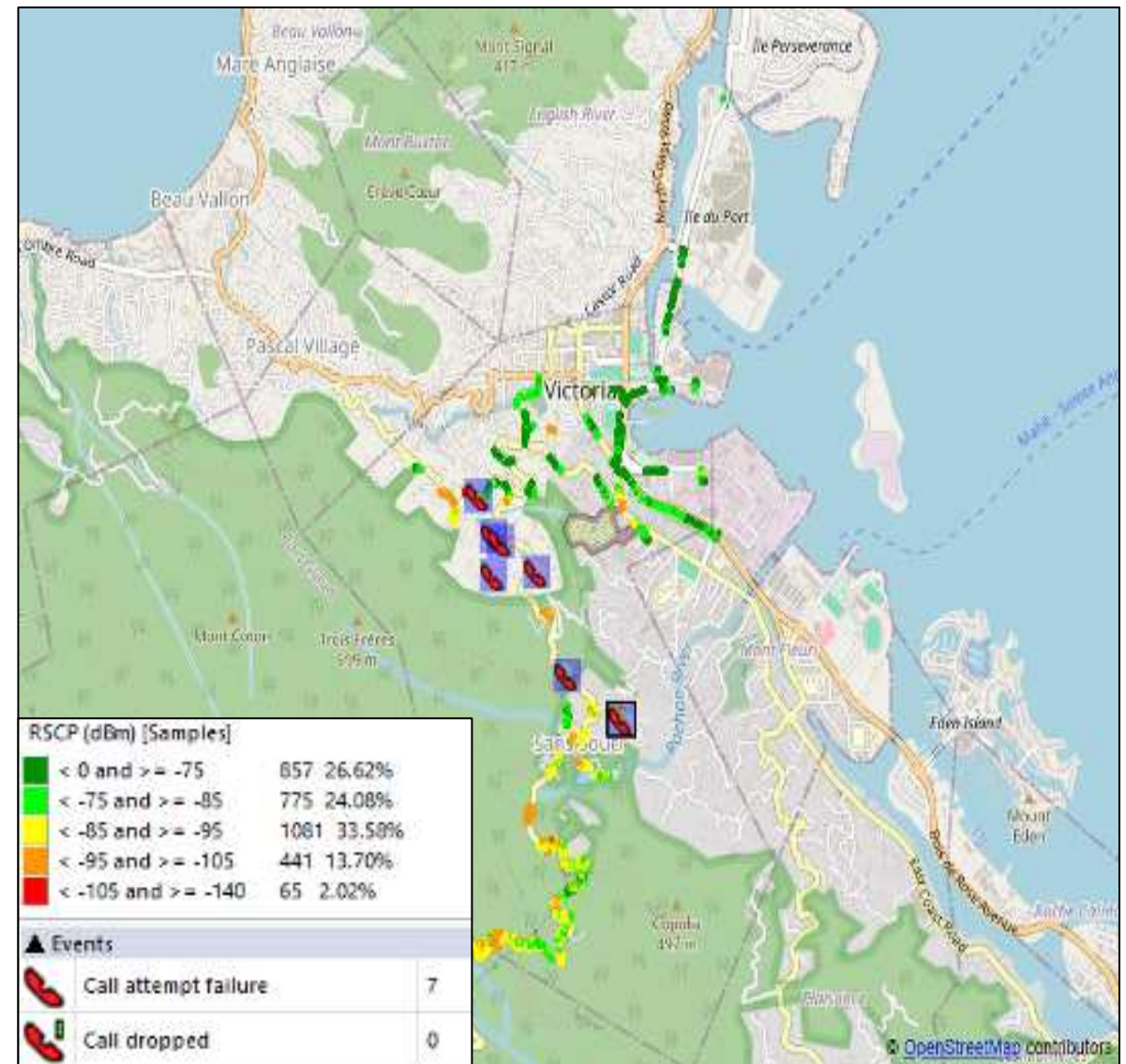
UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	14	11
Success(Count)	12	9
Failure(Count)	2	3
YouTube Access Time (s)	3.85	2.10
YouTube Average Resolution (pixels)	986.98	1080.00
YouTube Success Ratio [%]	85.71	81.82

Voice Call Events

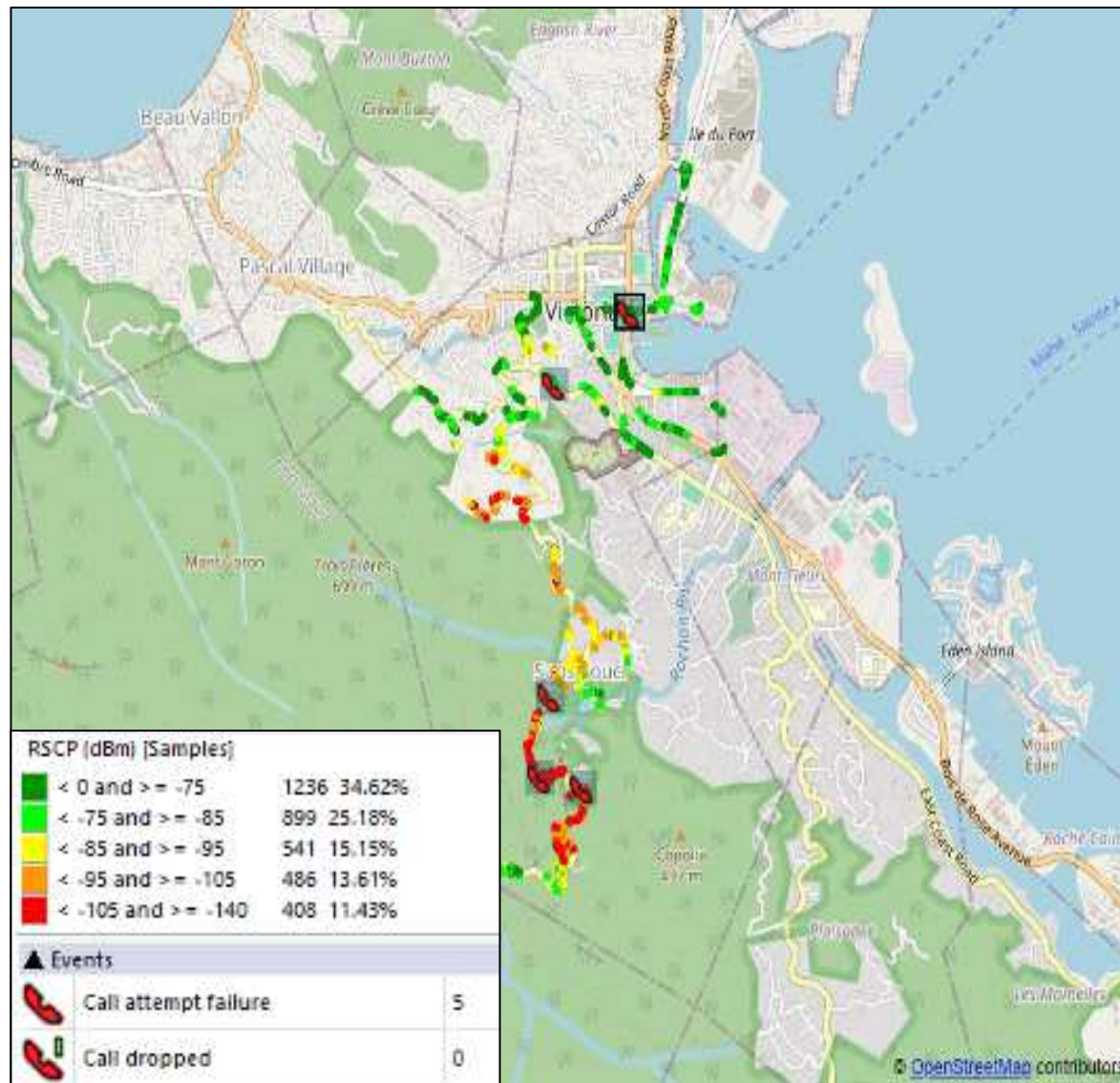
Airtel SC MO



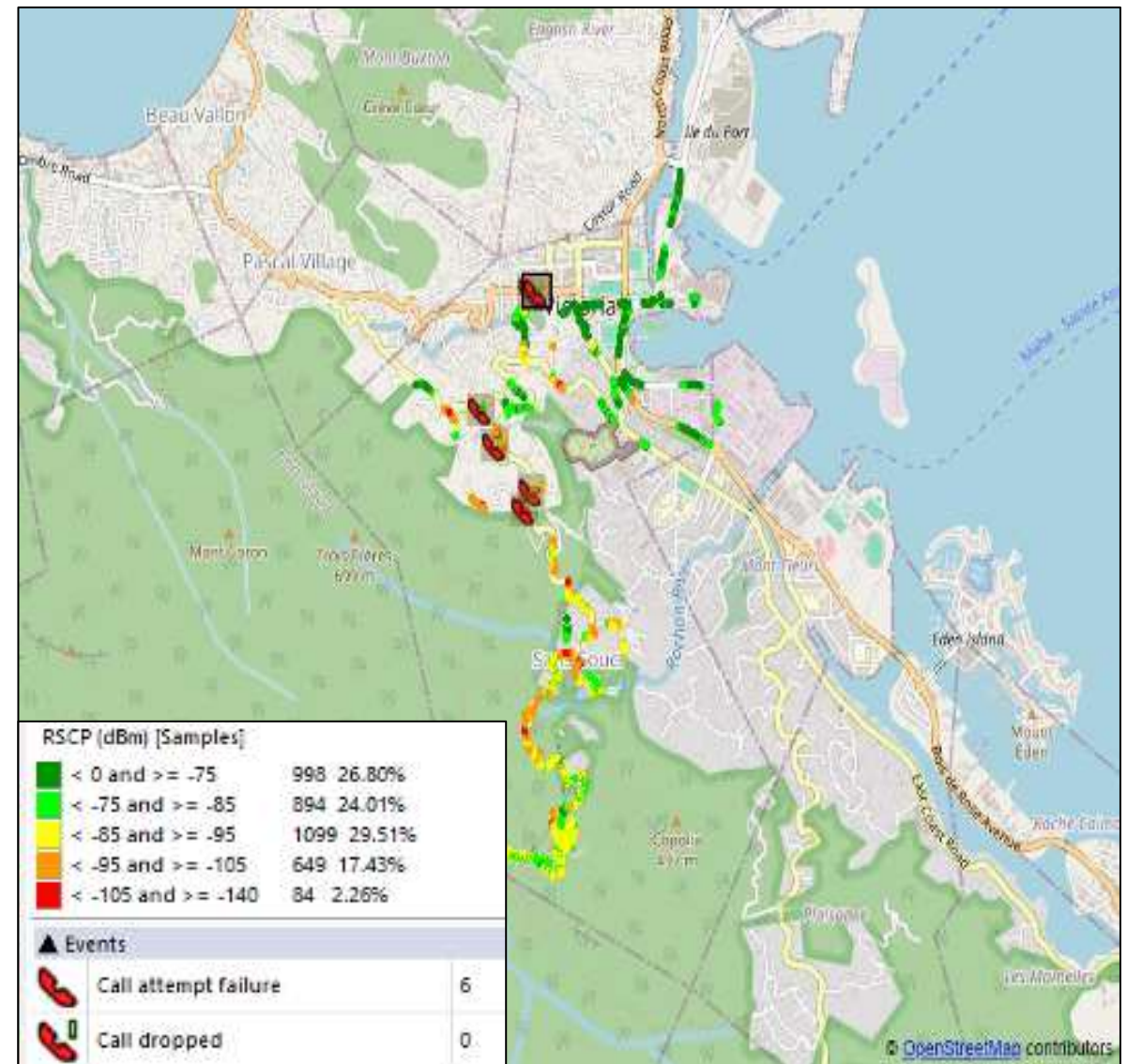
CWS SC MO



Airtel SC MO



CWS SC MO



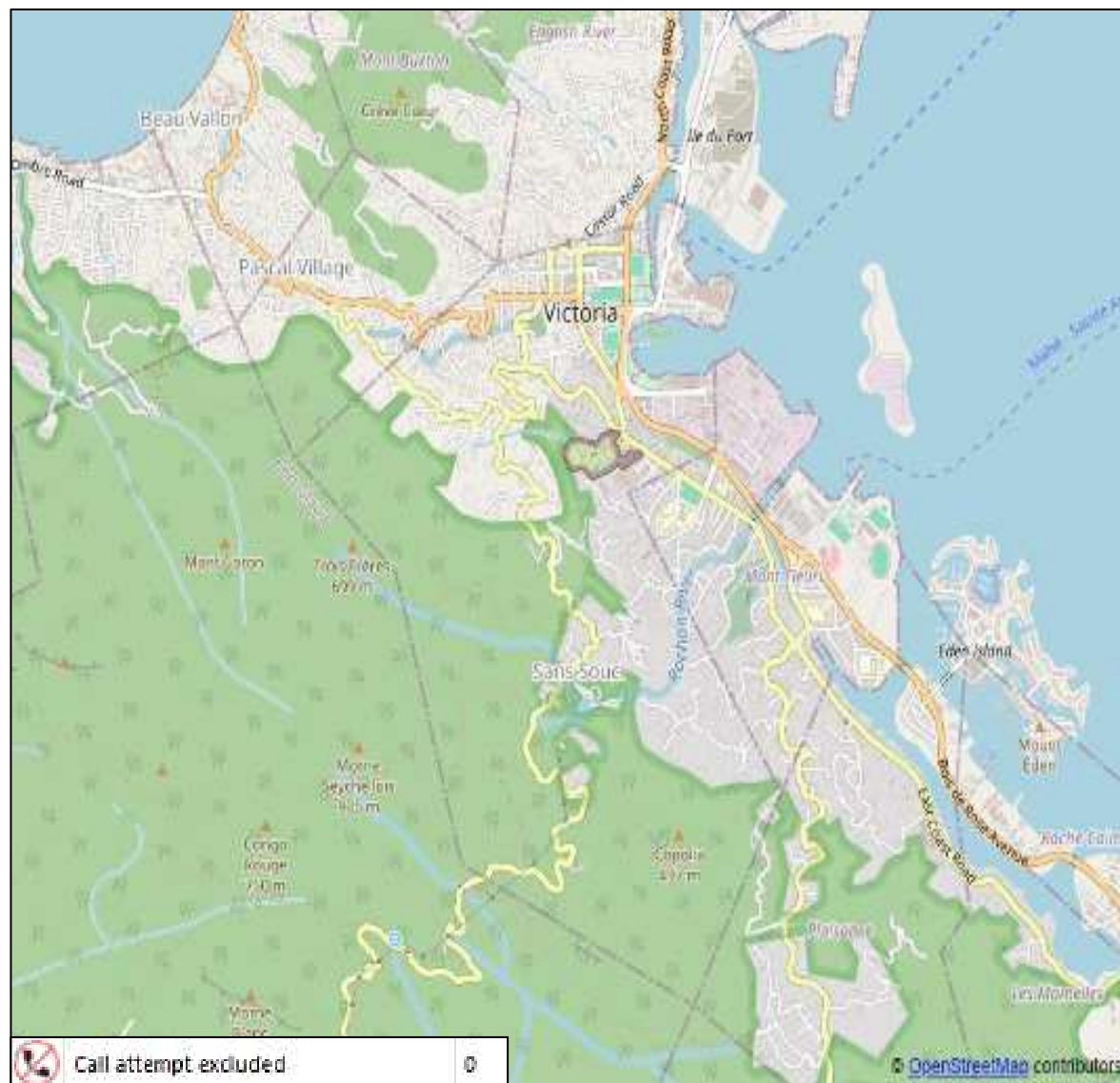
Airtel SC MO



CWS SC MO



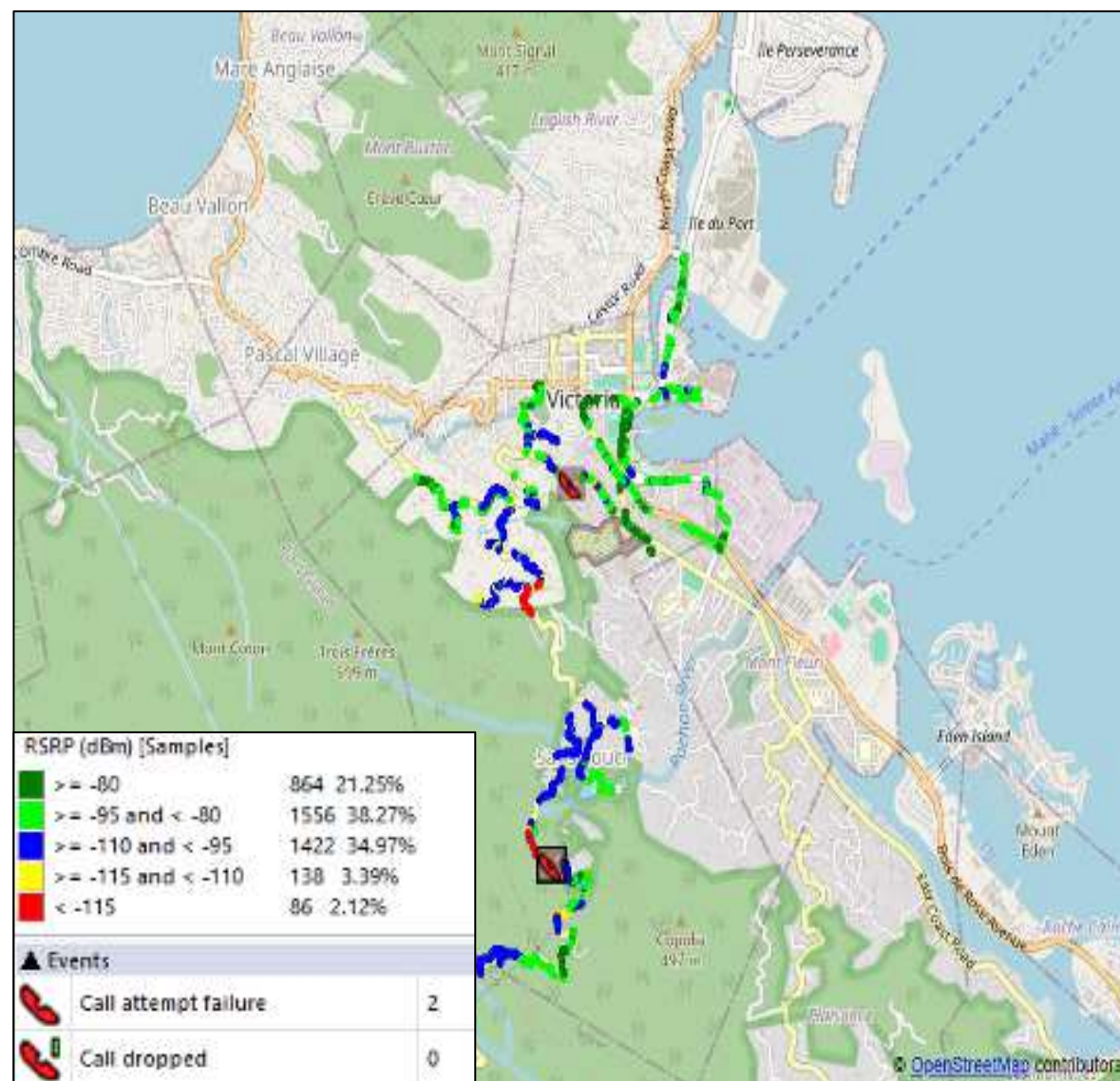
Airtel SC MO



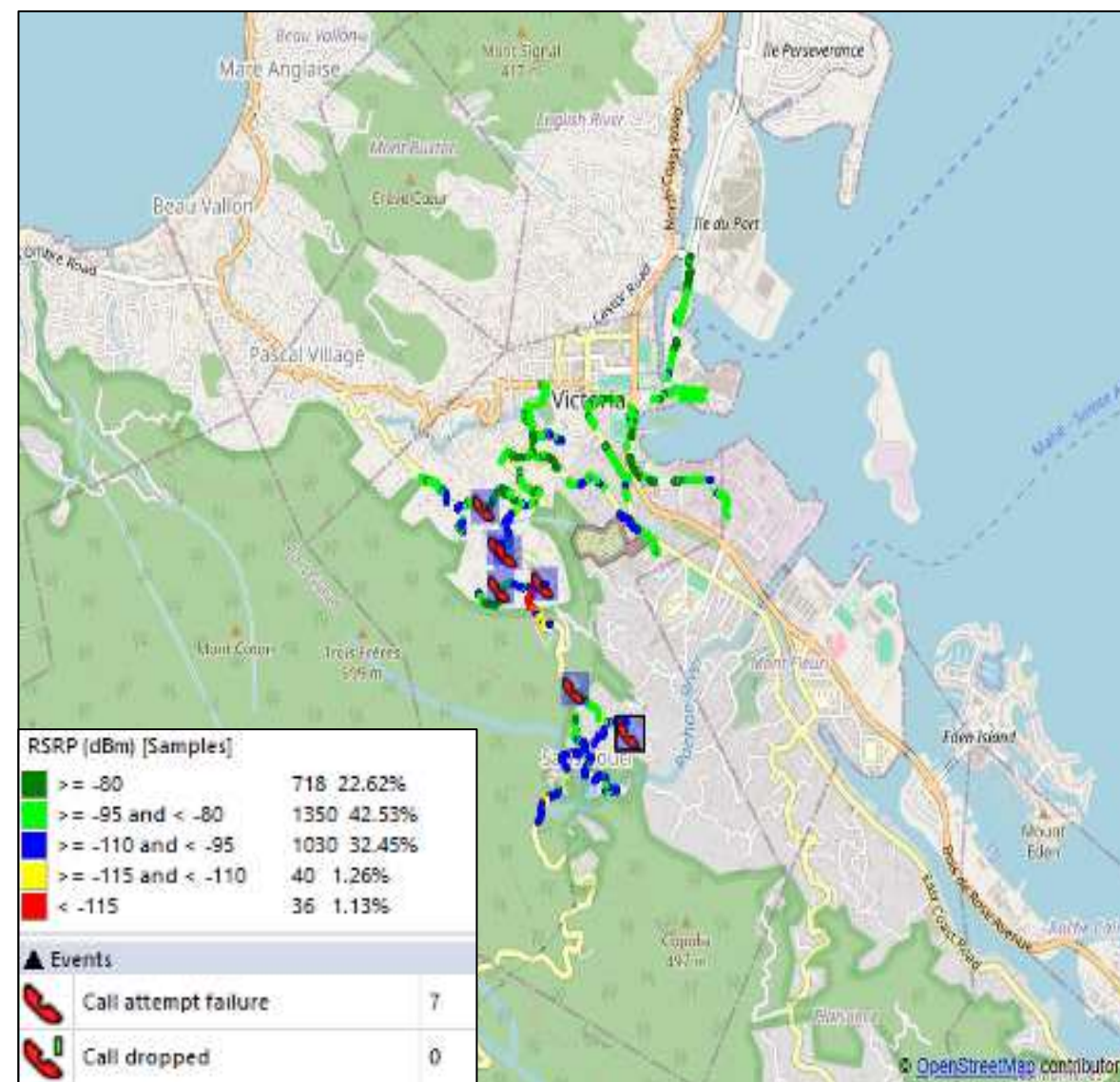
CWS SC MO



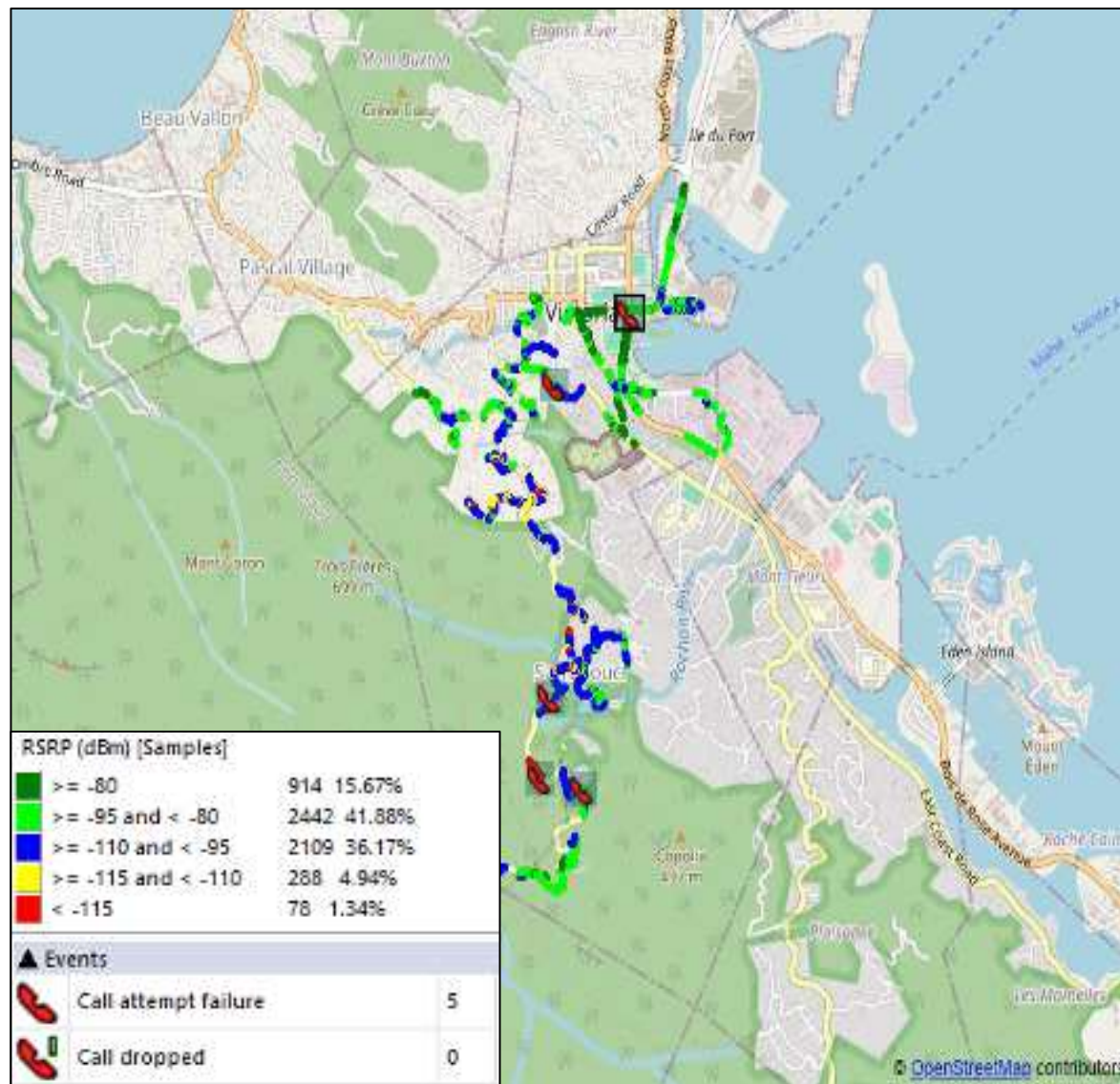
Airtel SC MO



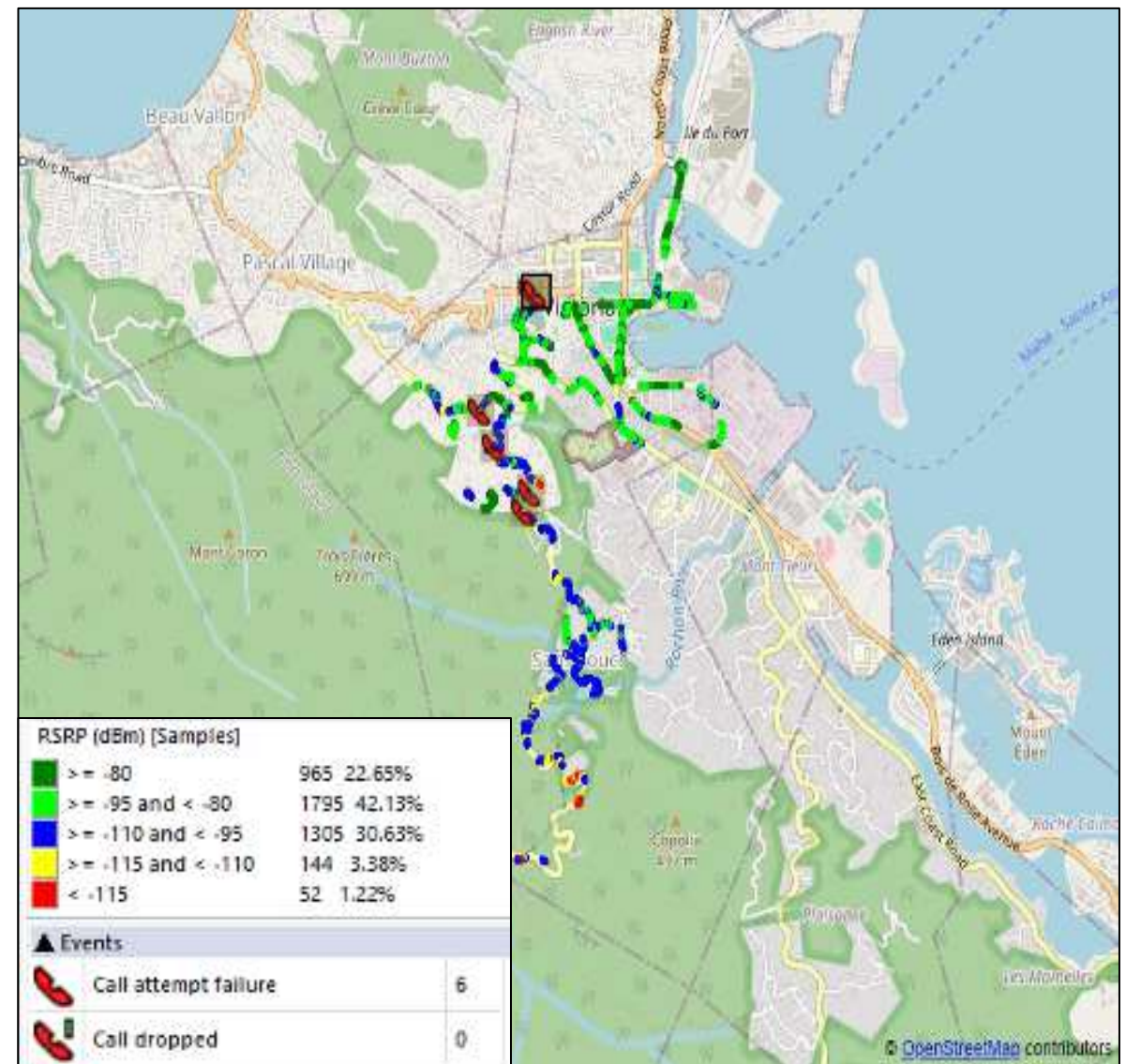
CWS SC MO



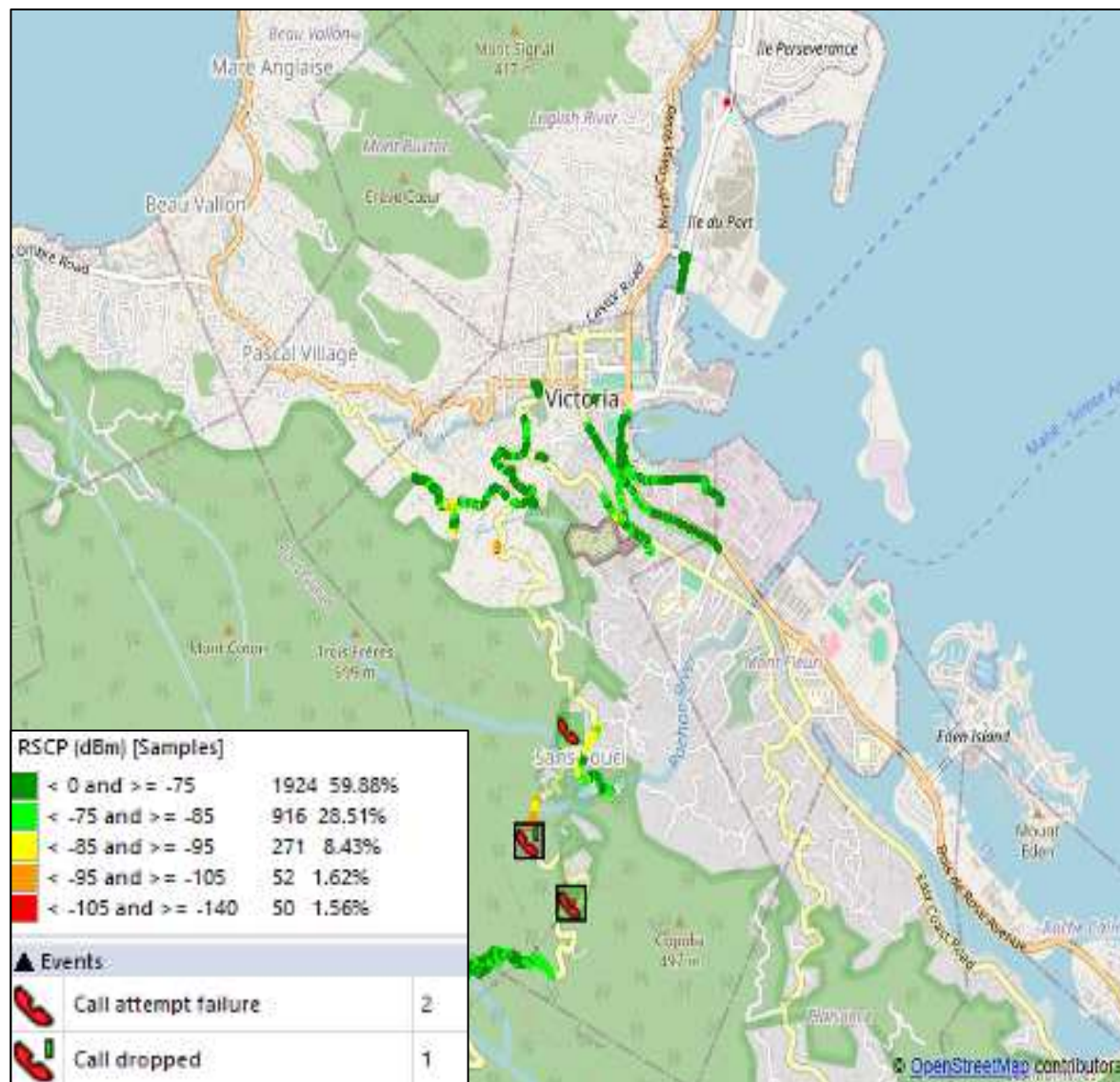
Airtel SC MO



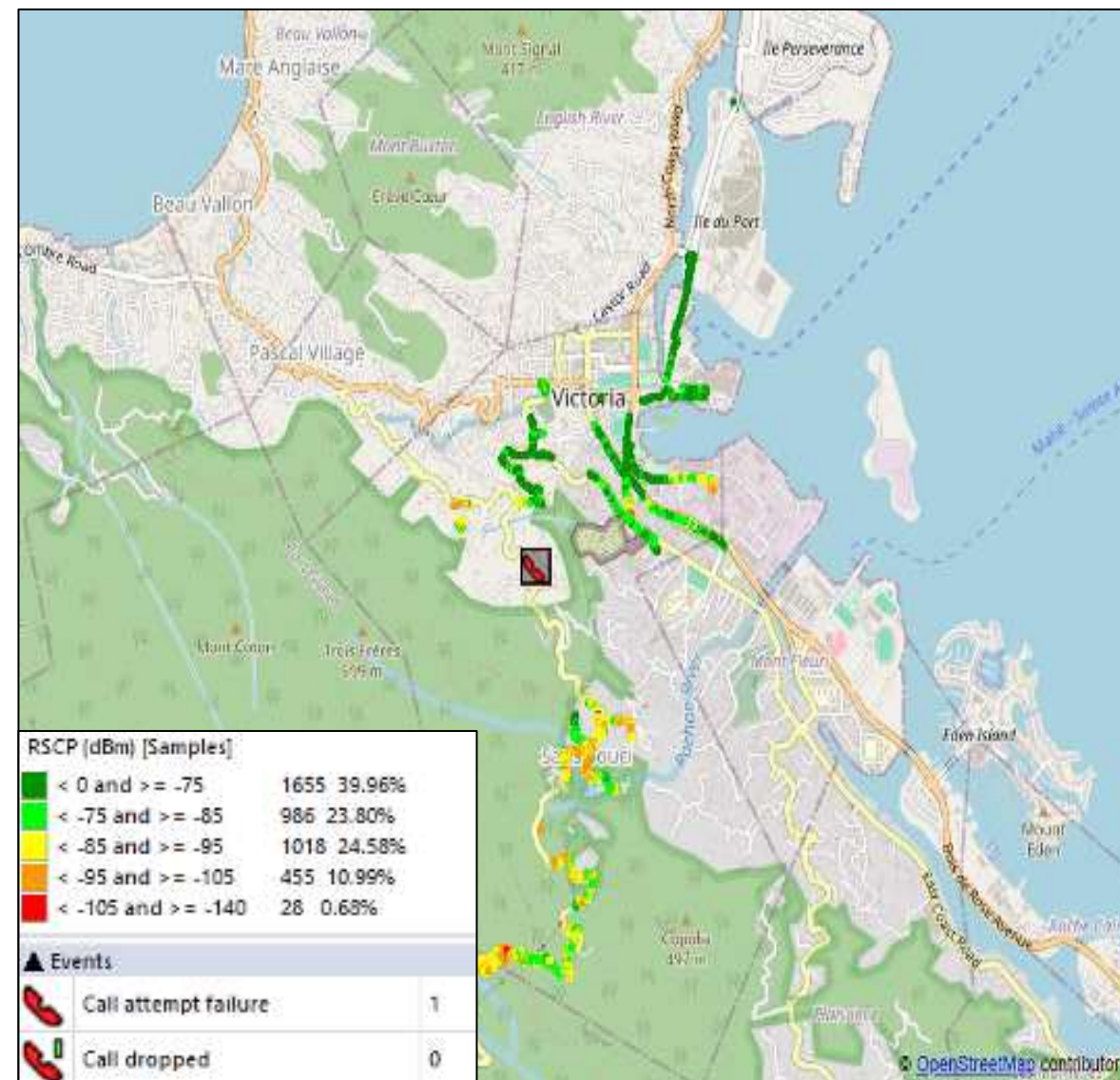
CWS SC MO



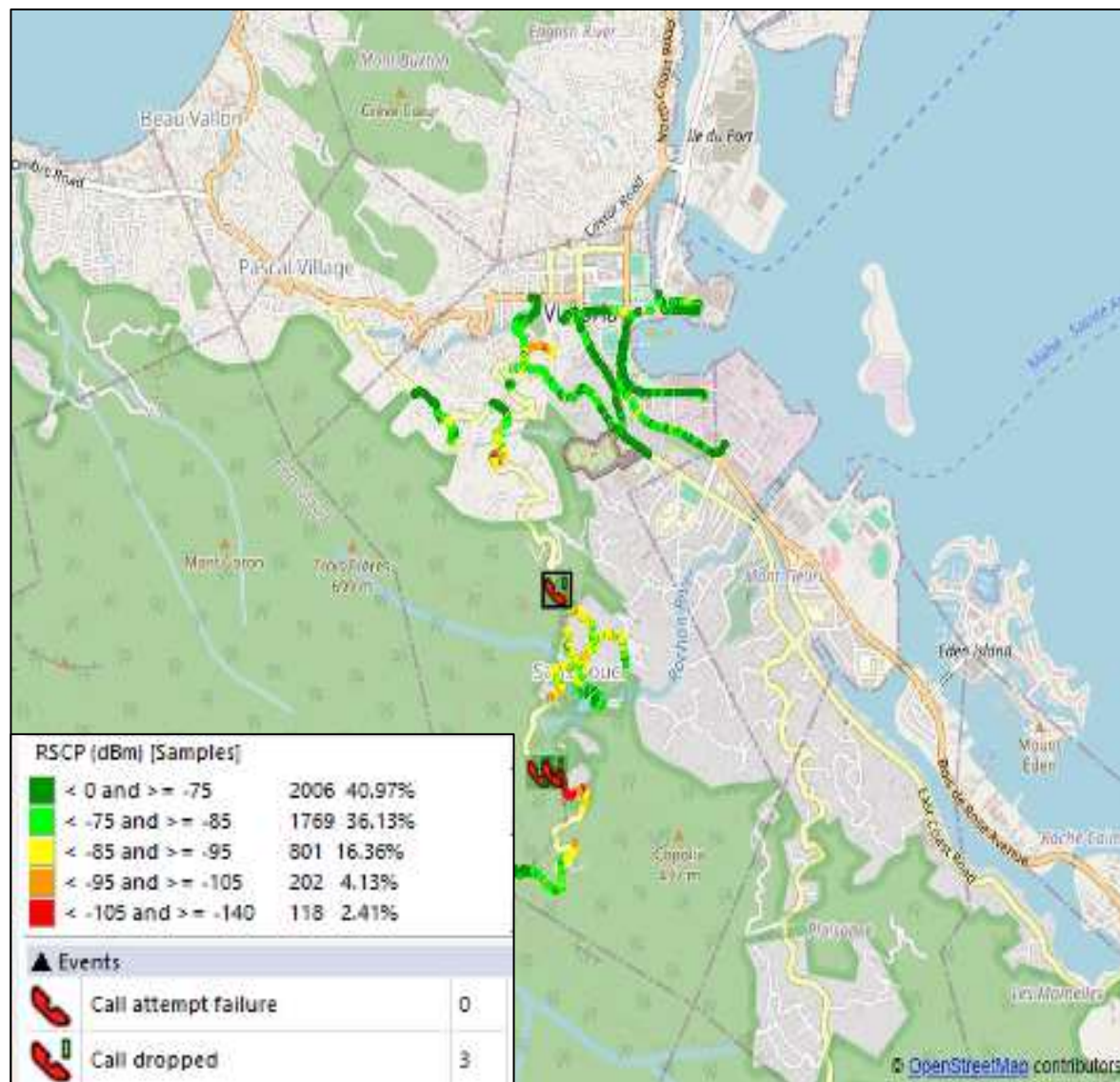
Airtel LC MO



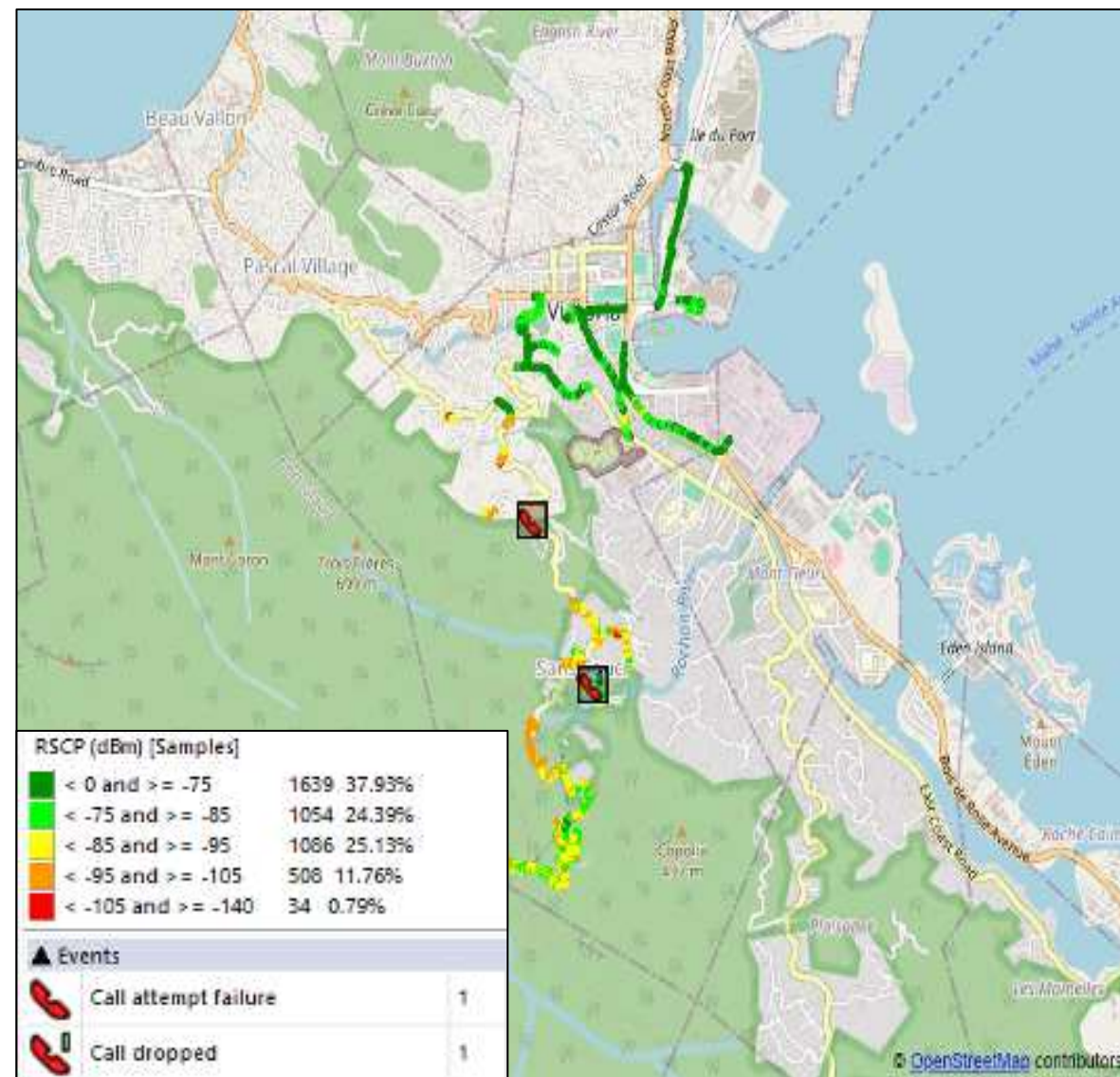
CWS LC MO



Airtel LC MO



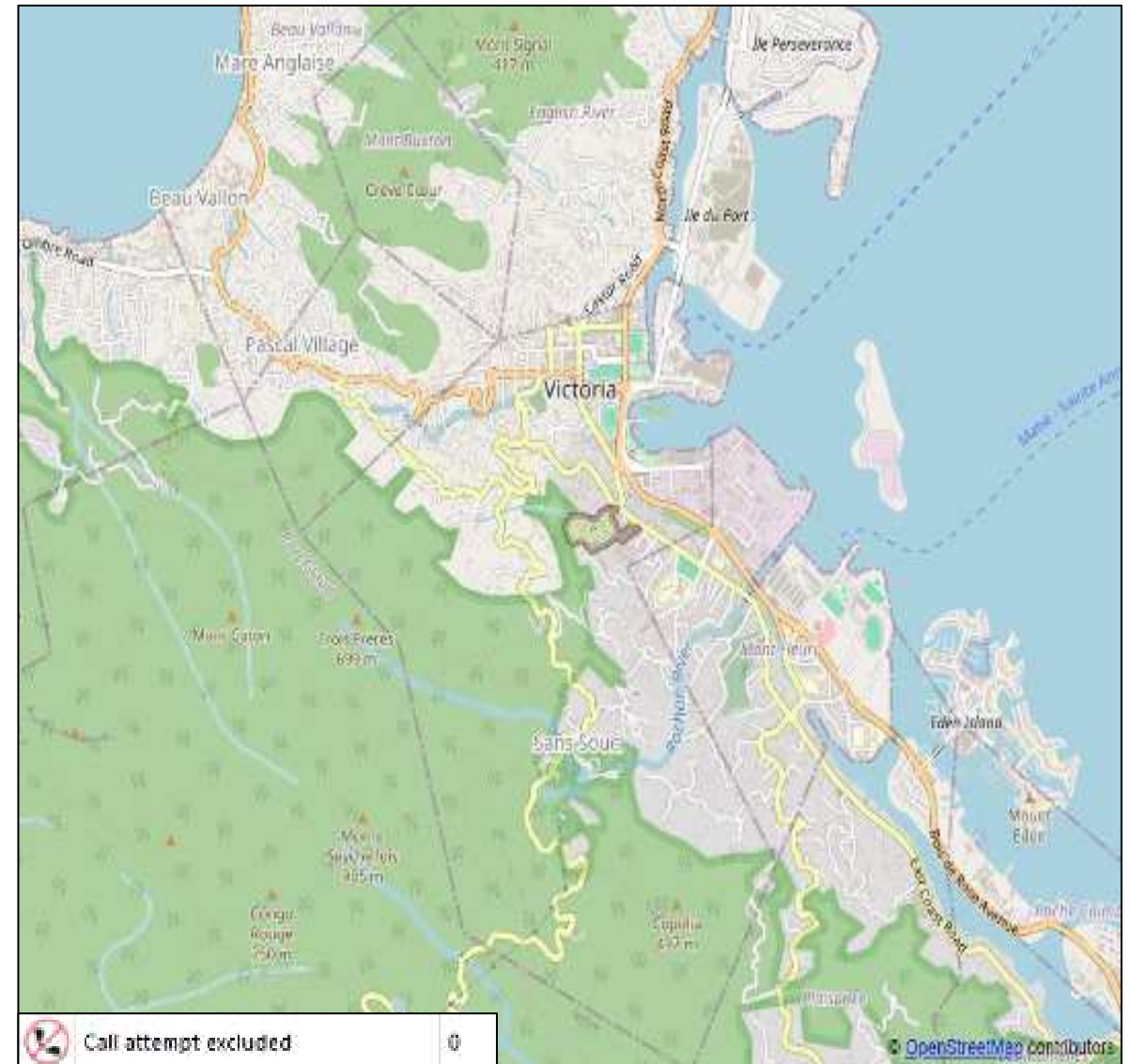
CWS LC MO



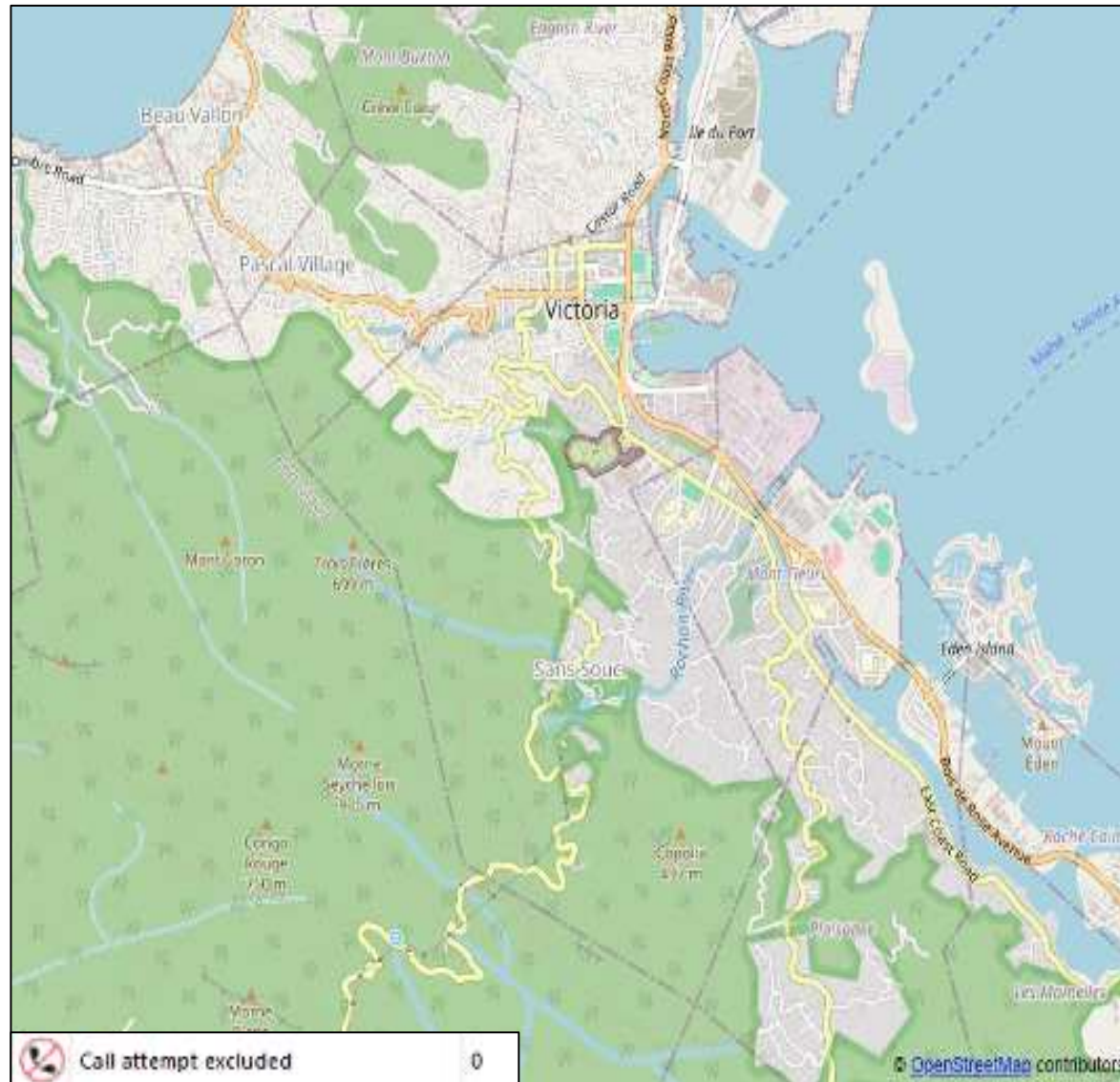
Airtel LC MO



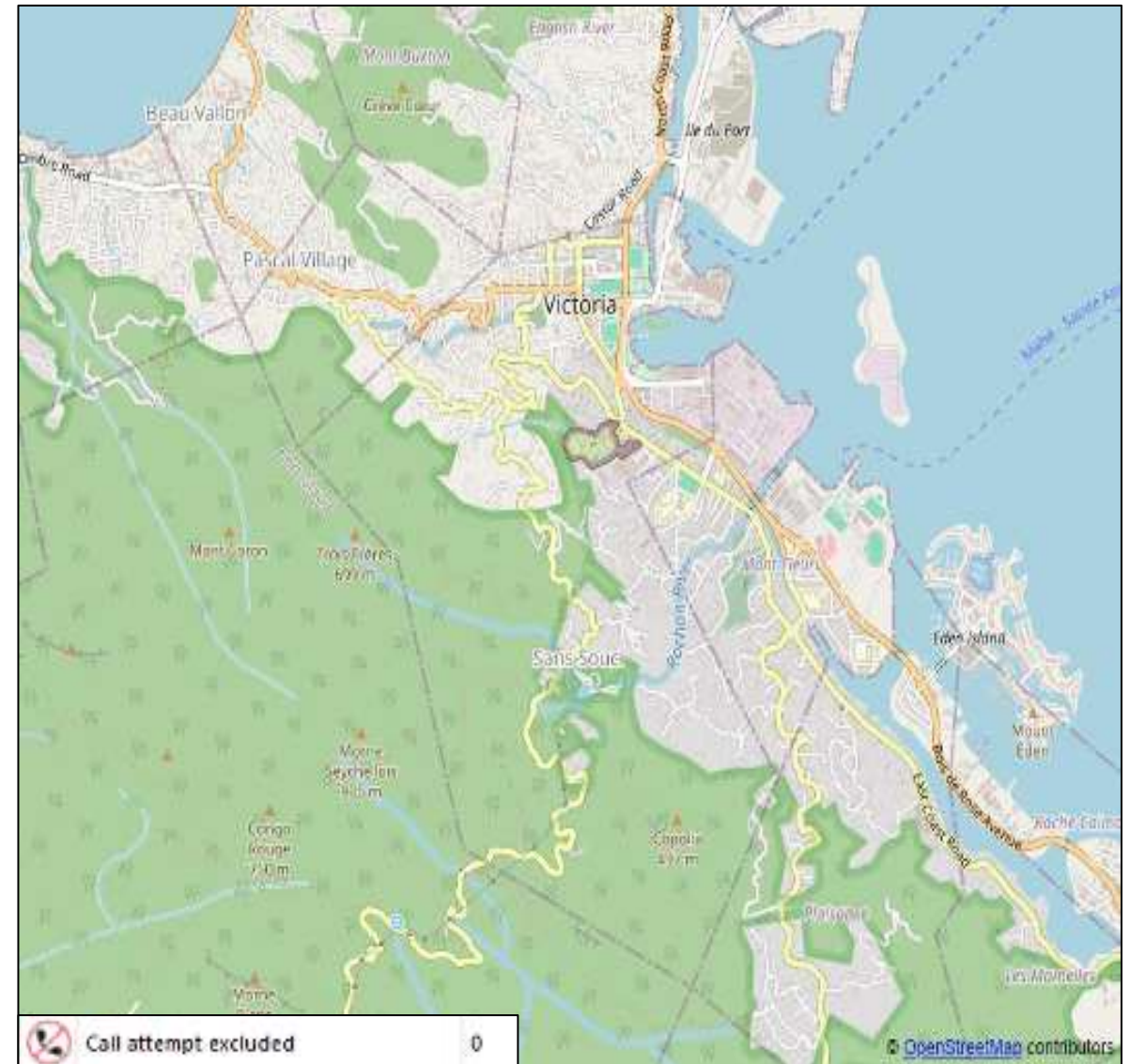
CWS LC MO



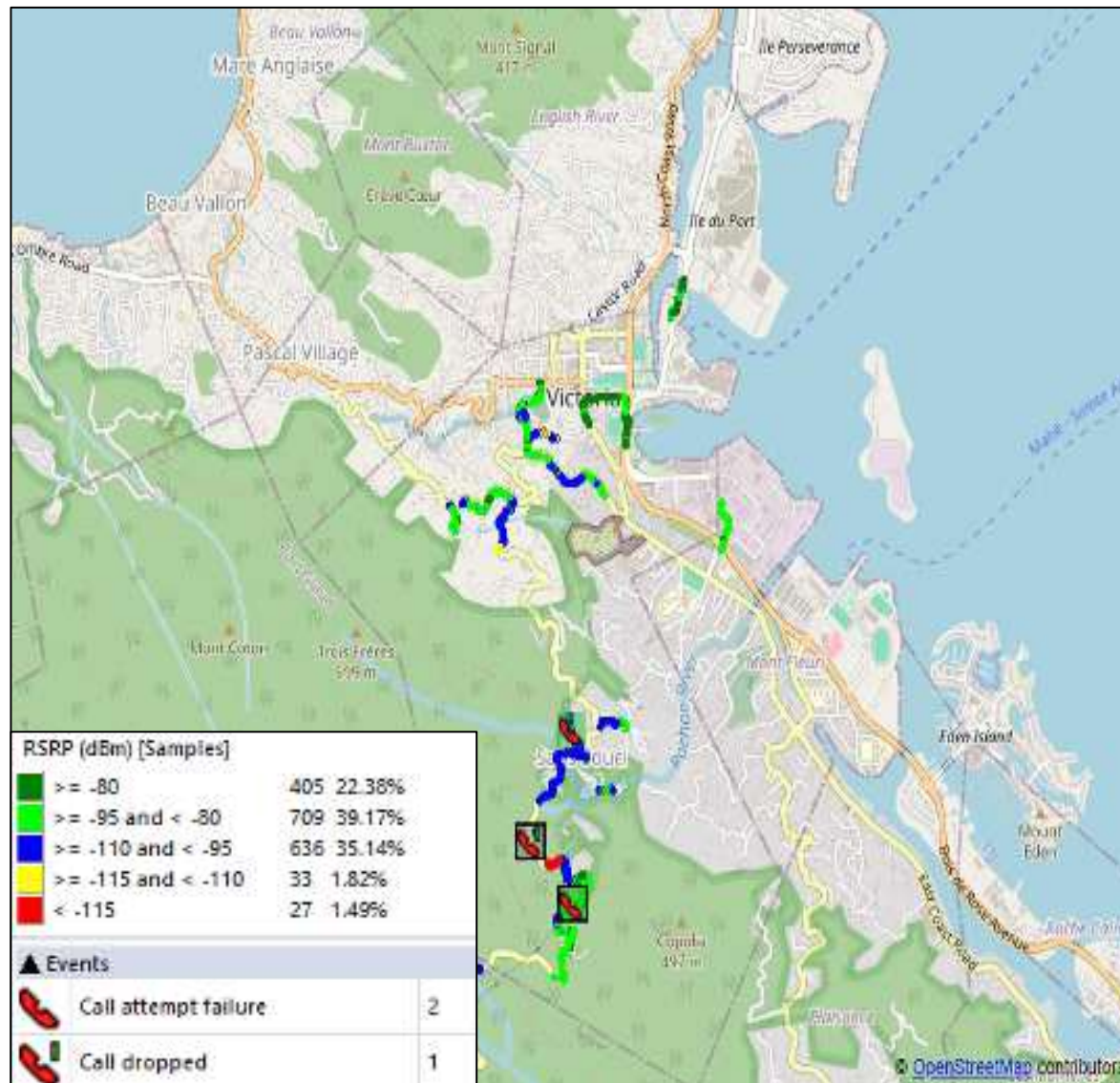
Airtel LC MO



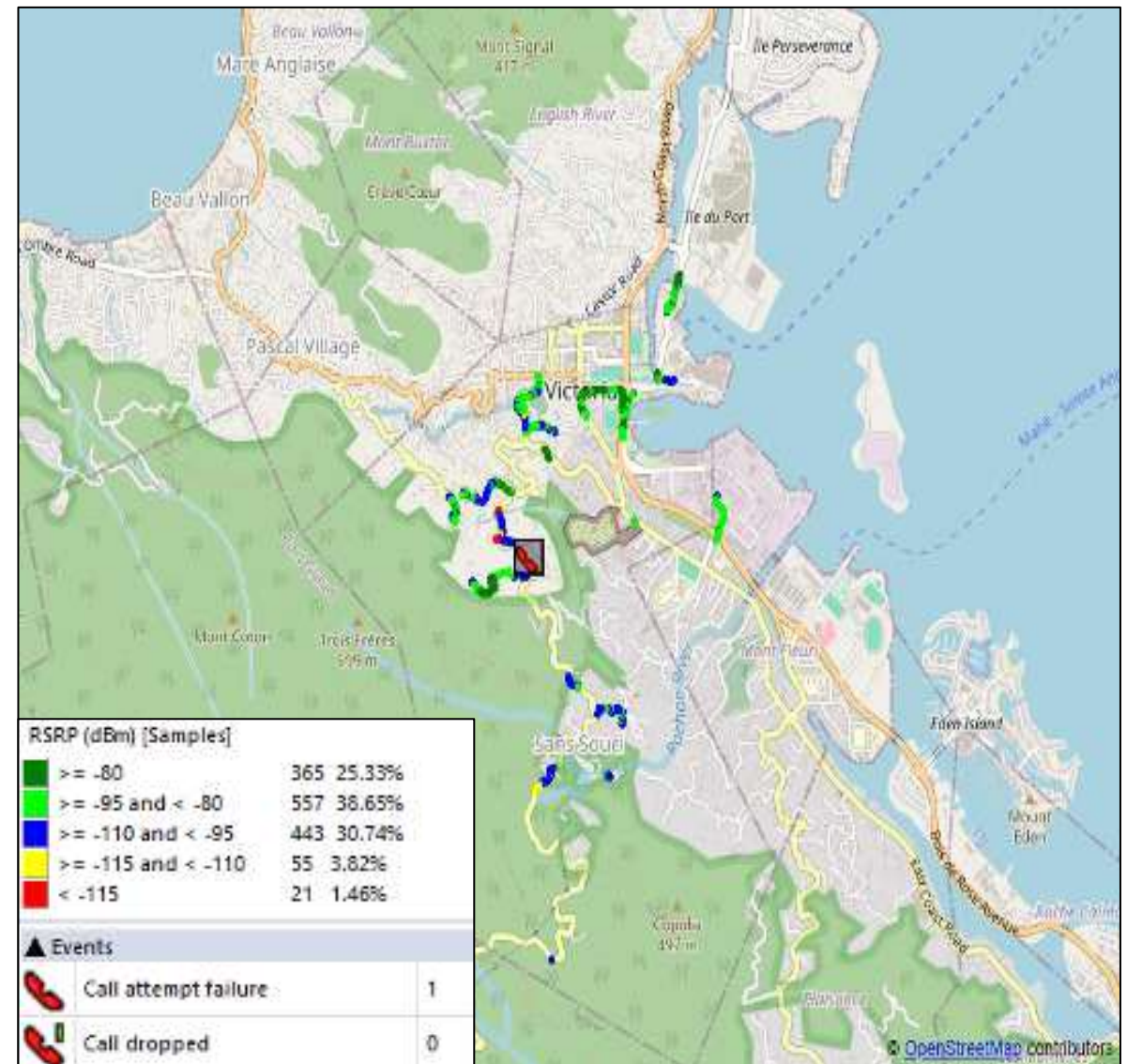
CWS LC MO



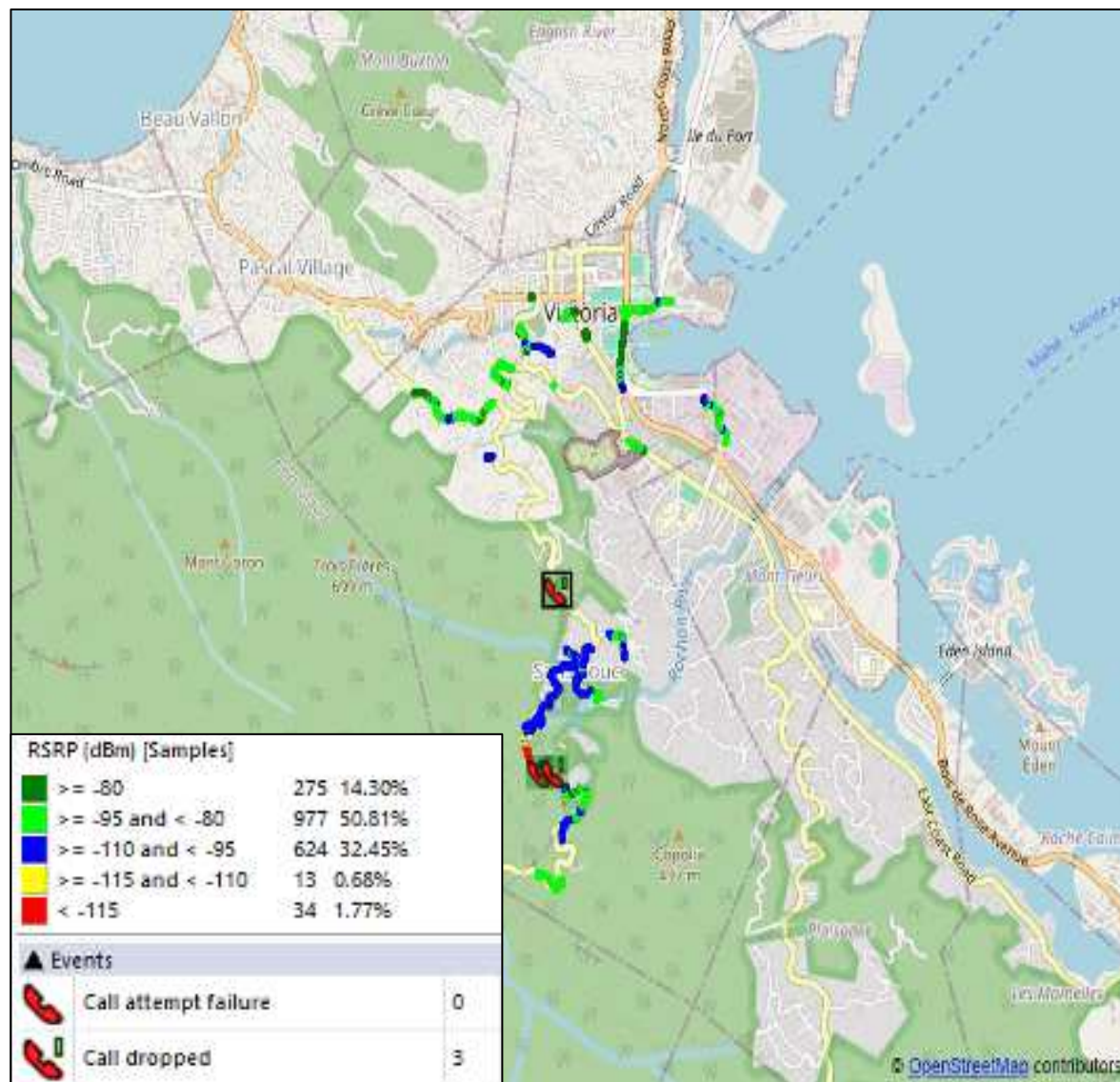
Airtel LC MO



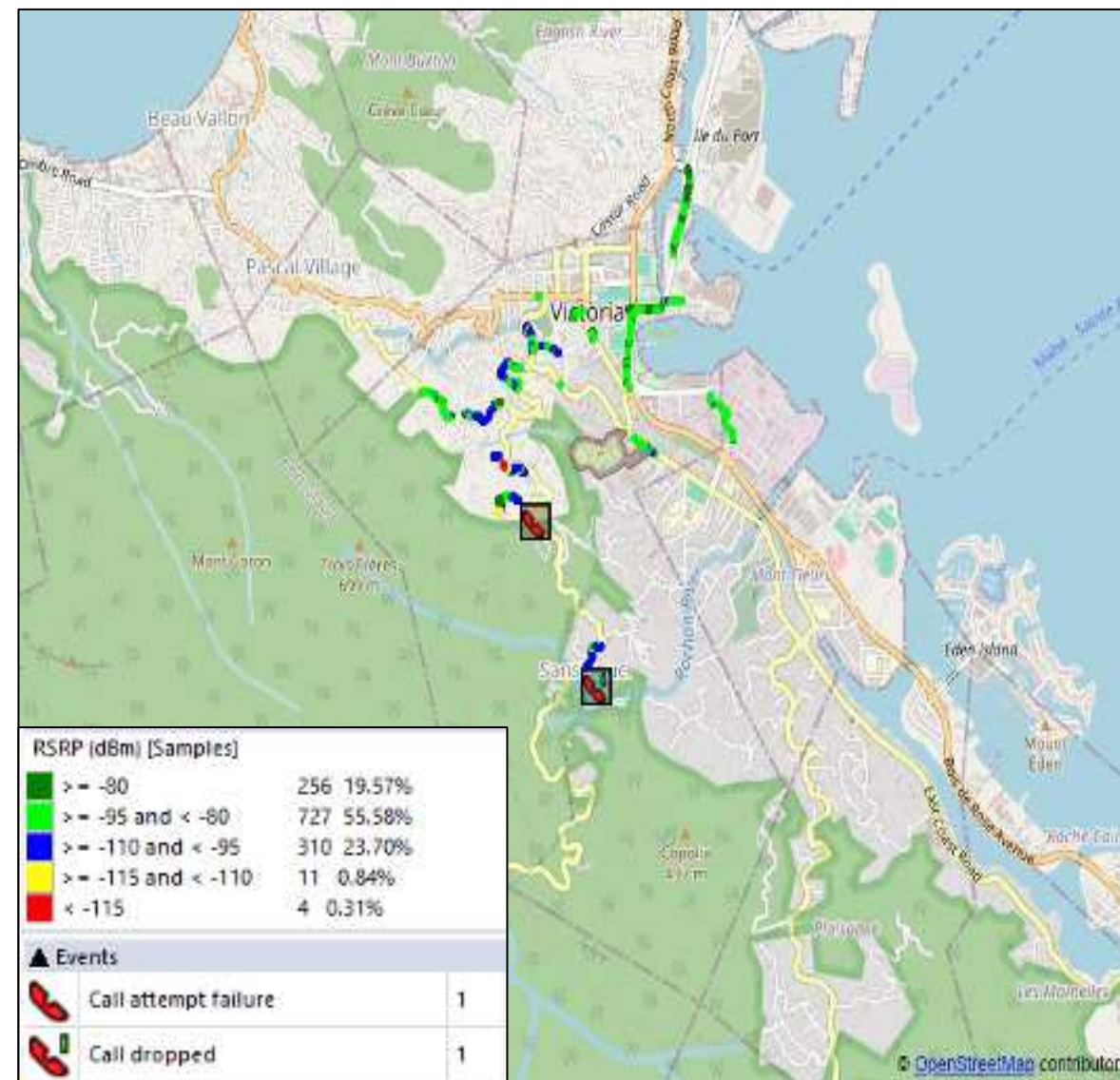
CWS LC MO



Airtel LC MO

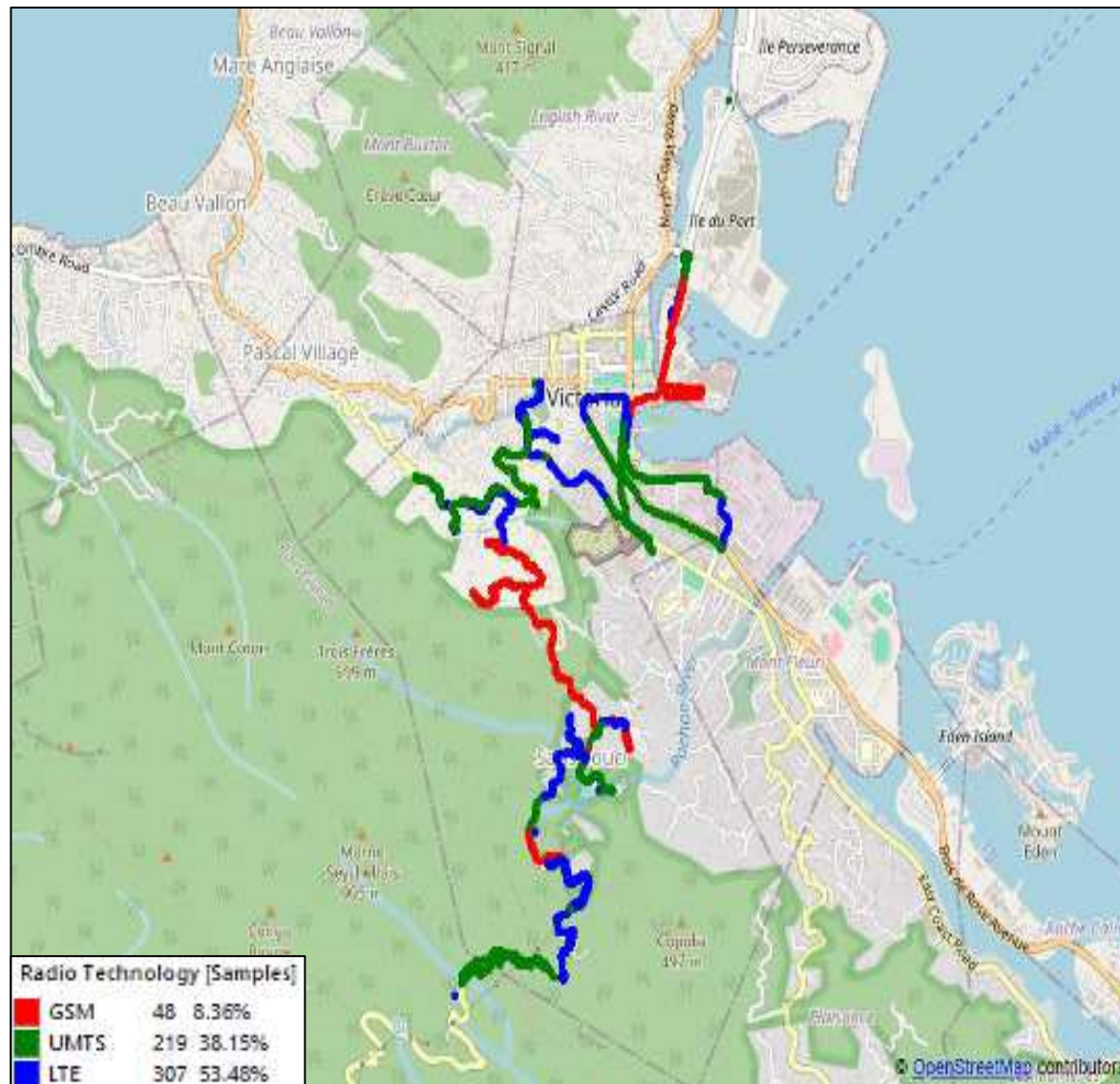


CWS LC MO

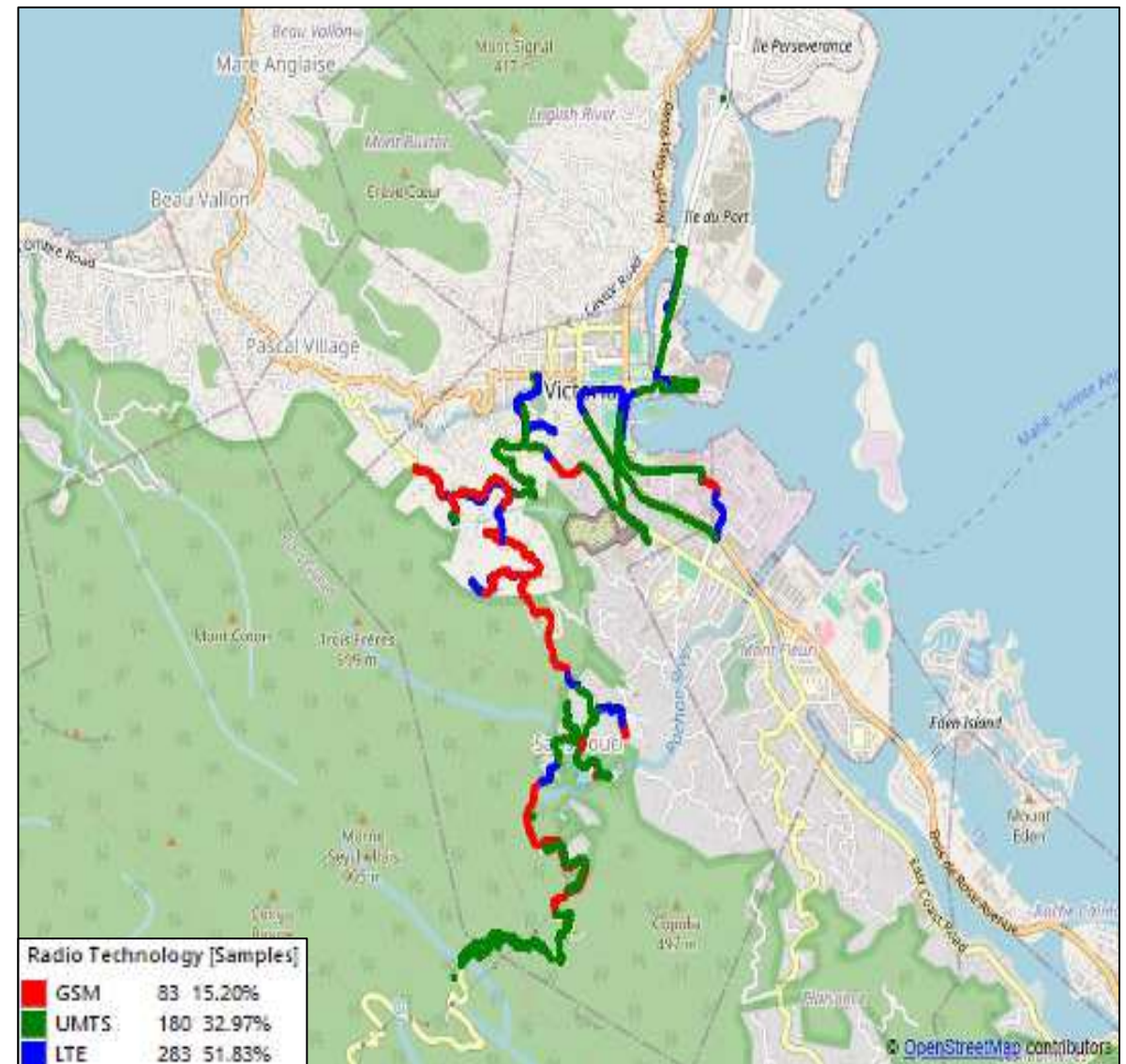


LONG CALL DRIVE PLOTS

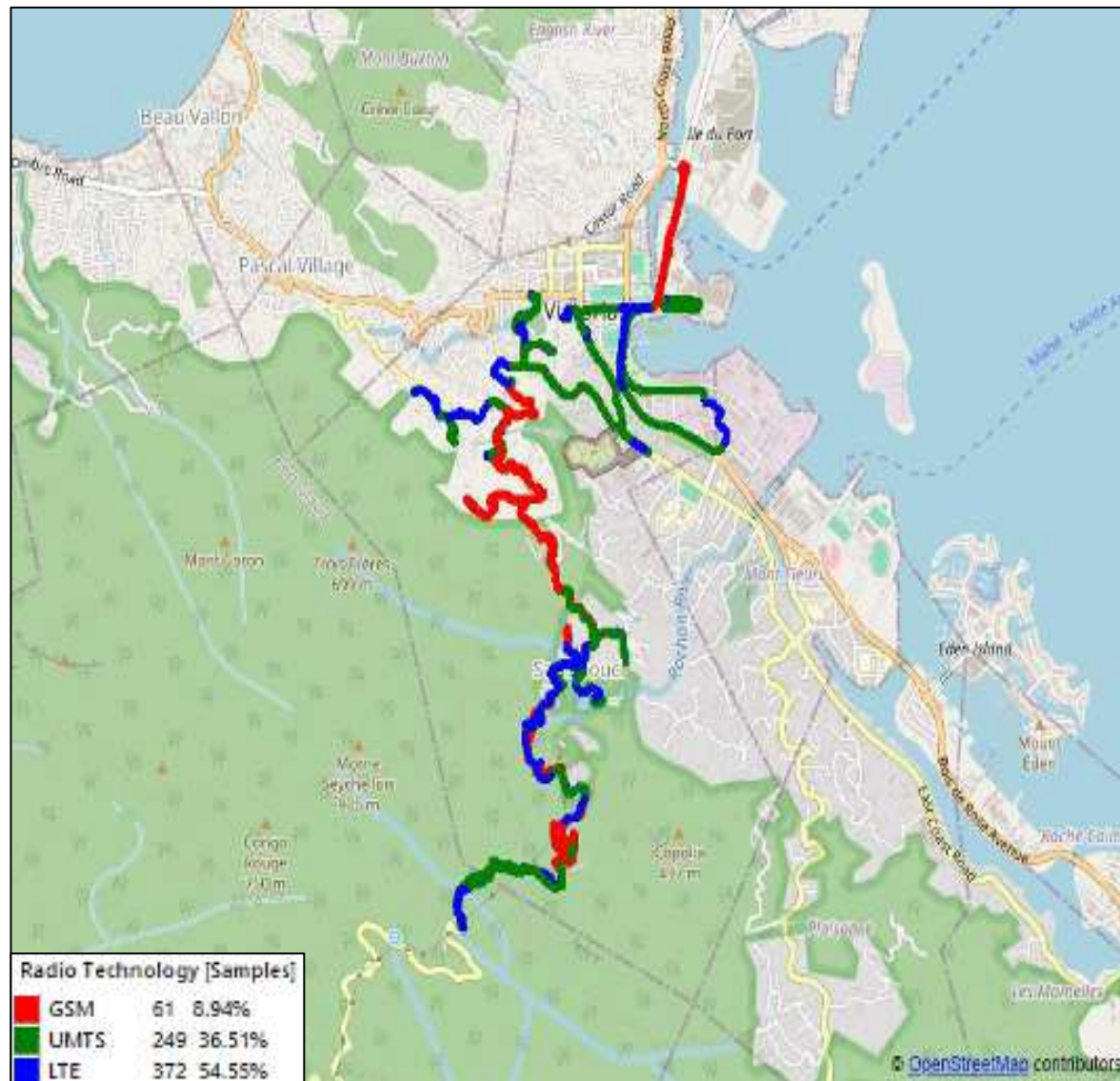
Airtel LC MO



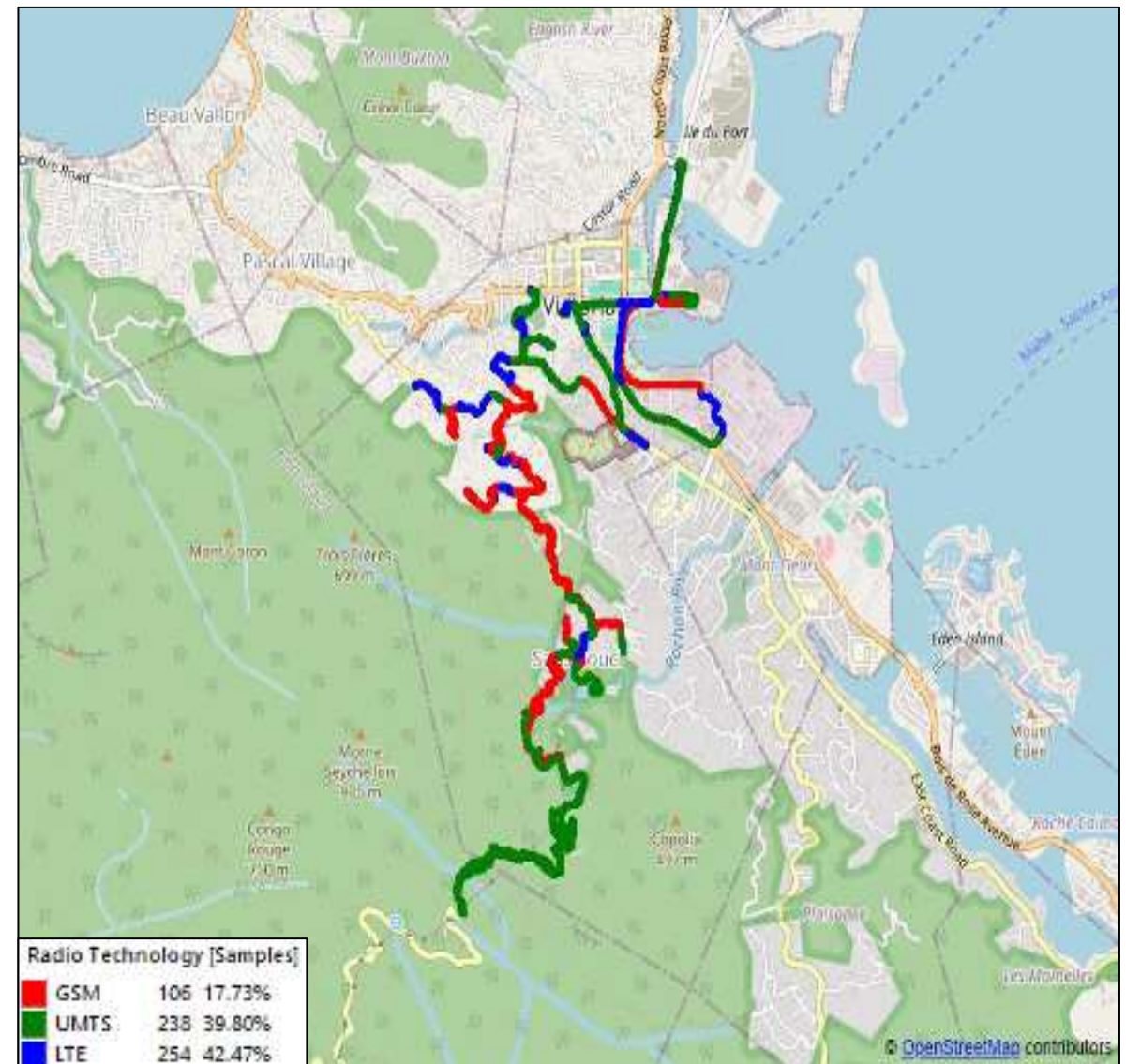
CWS LC MO



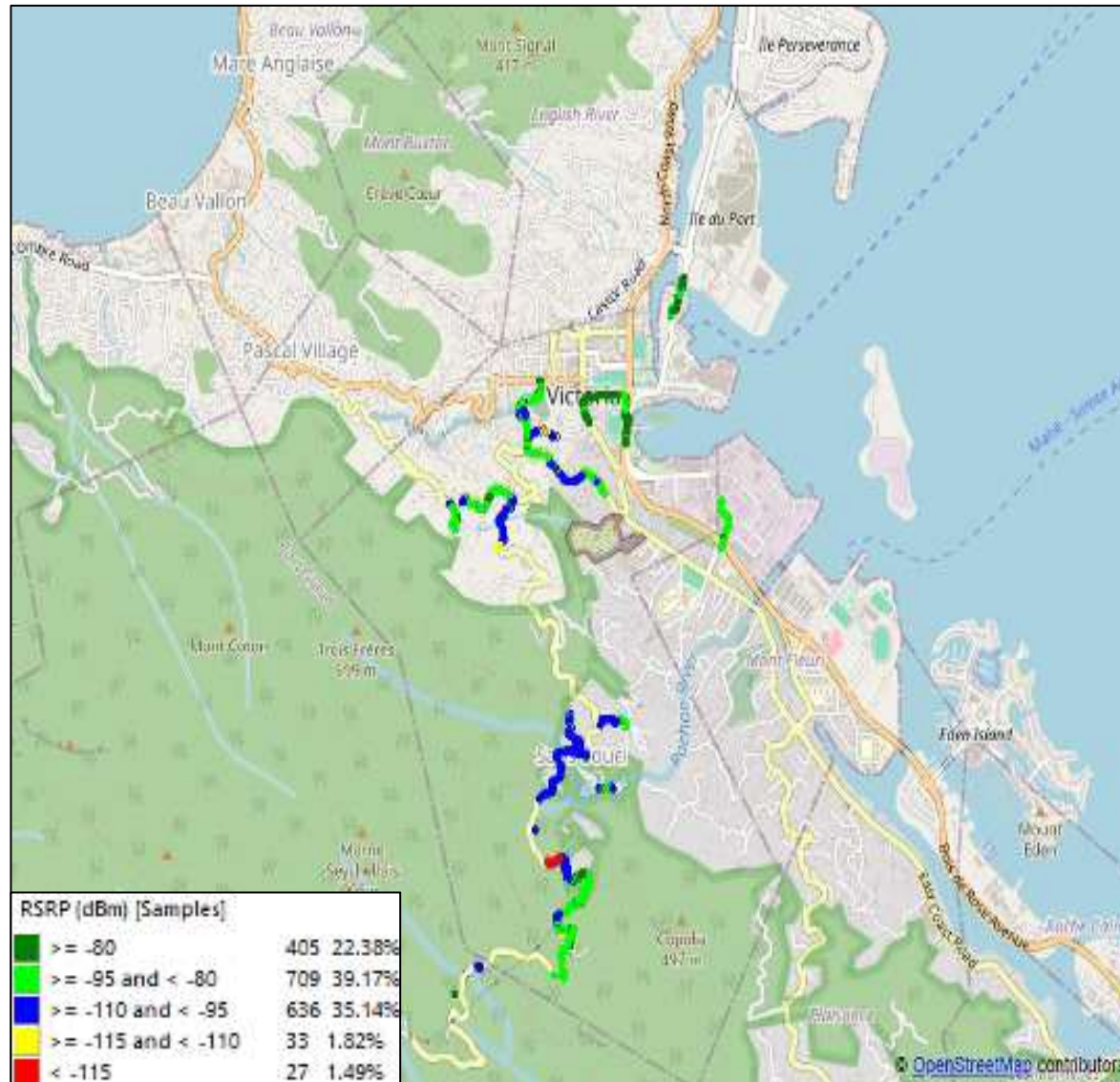
Airtel LC MO



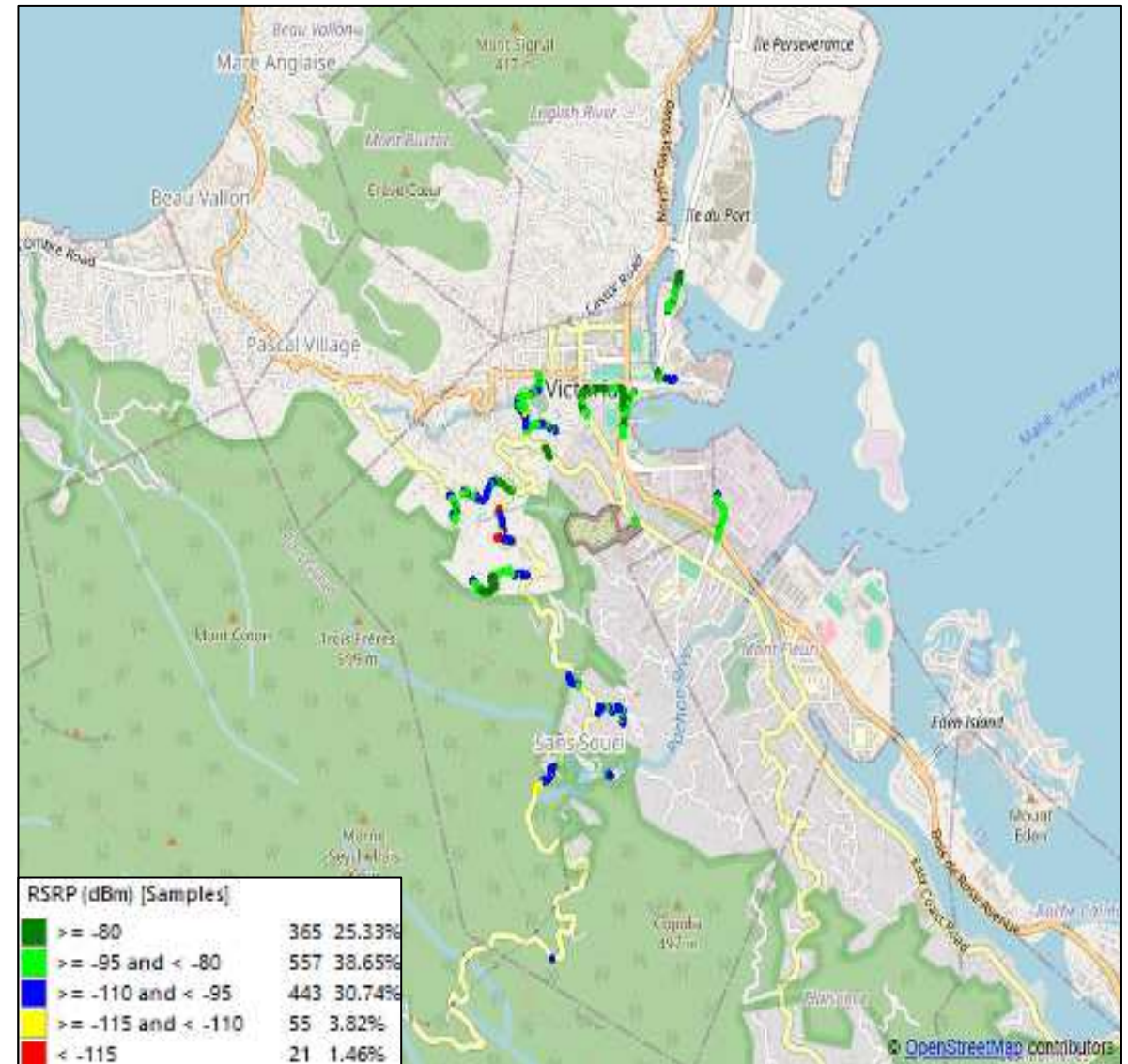
CWS LC MO



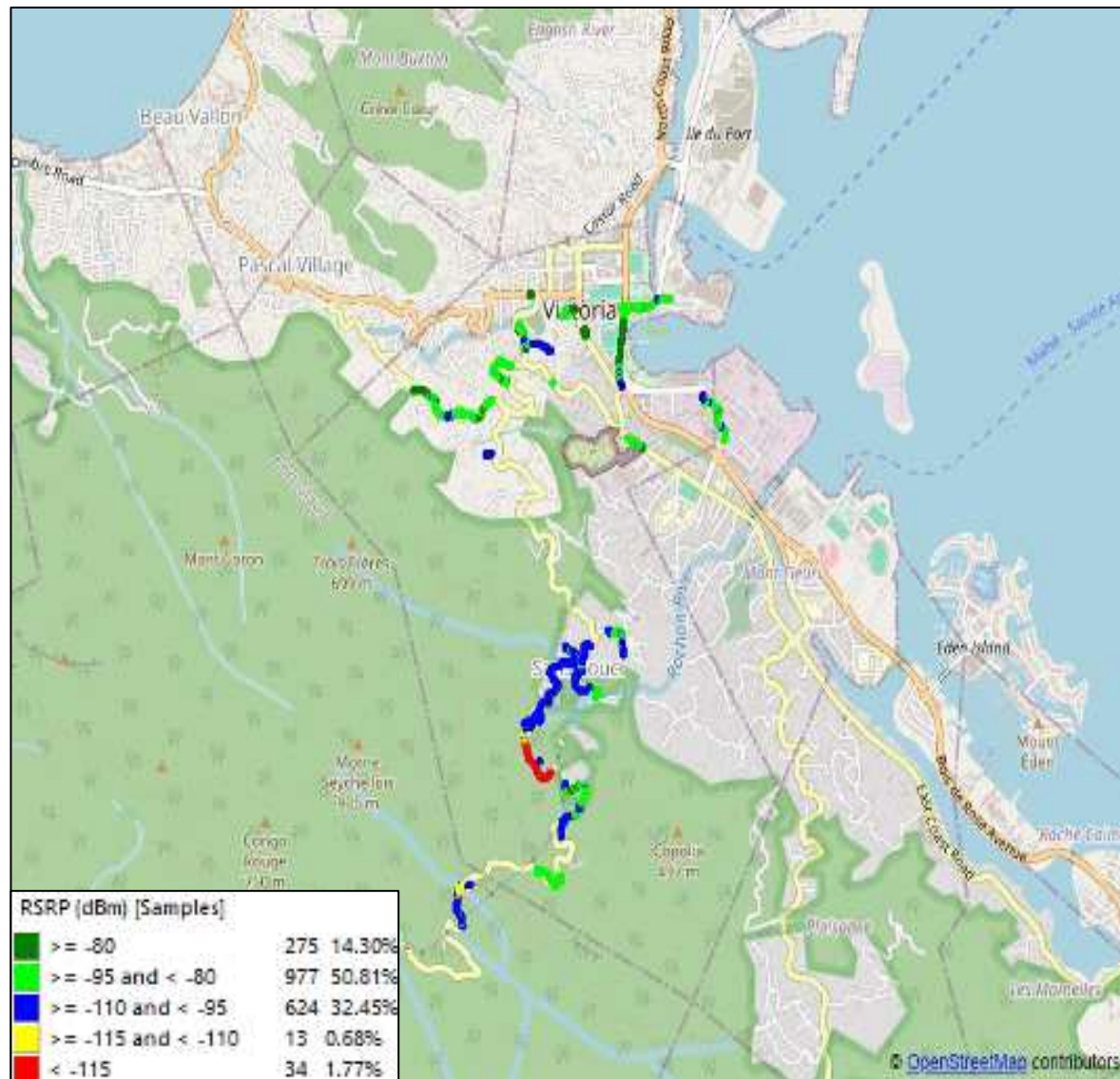
Airtel LC MO



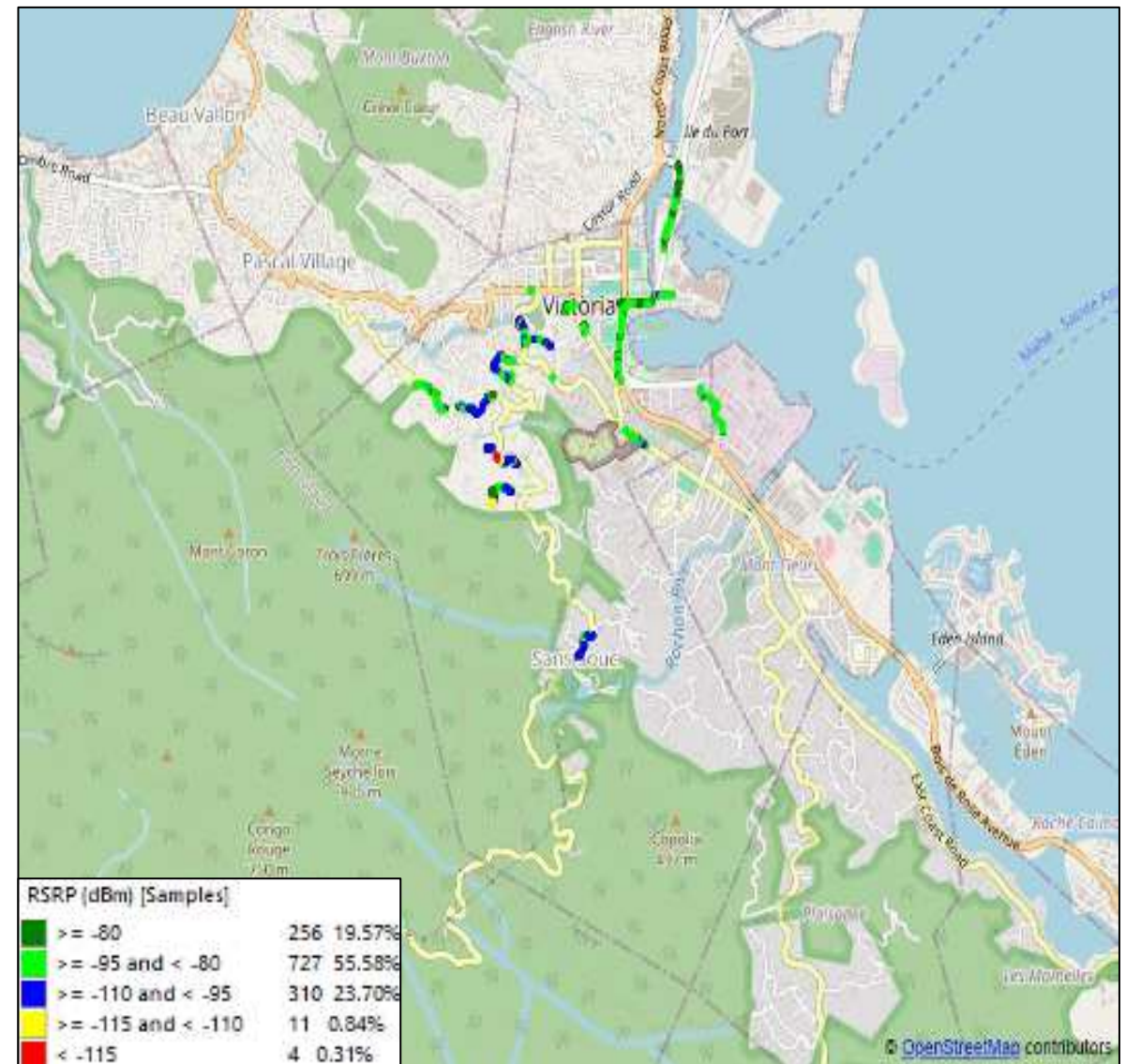
CWS LC MO



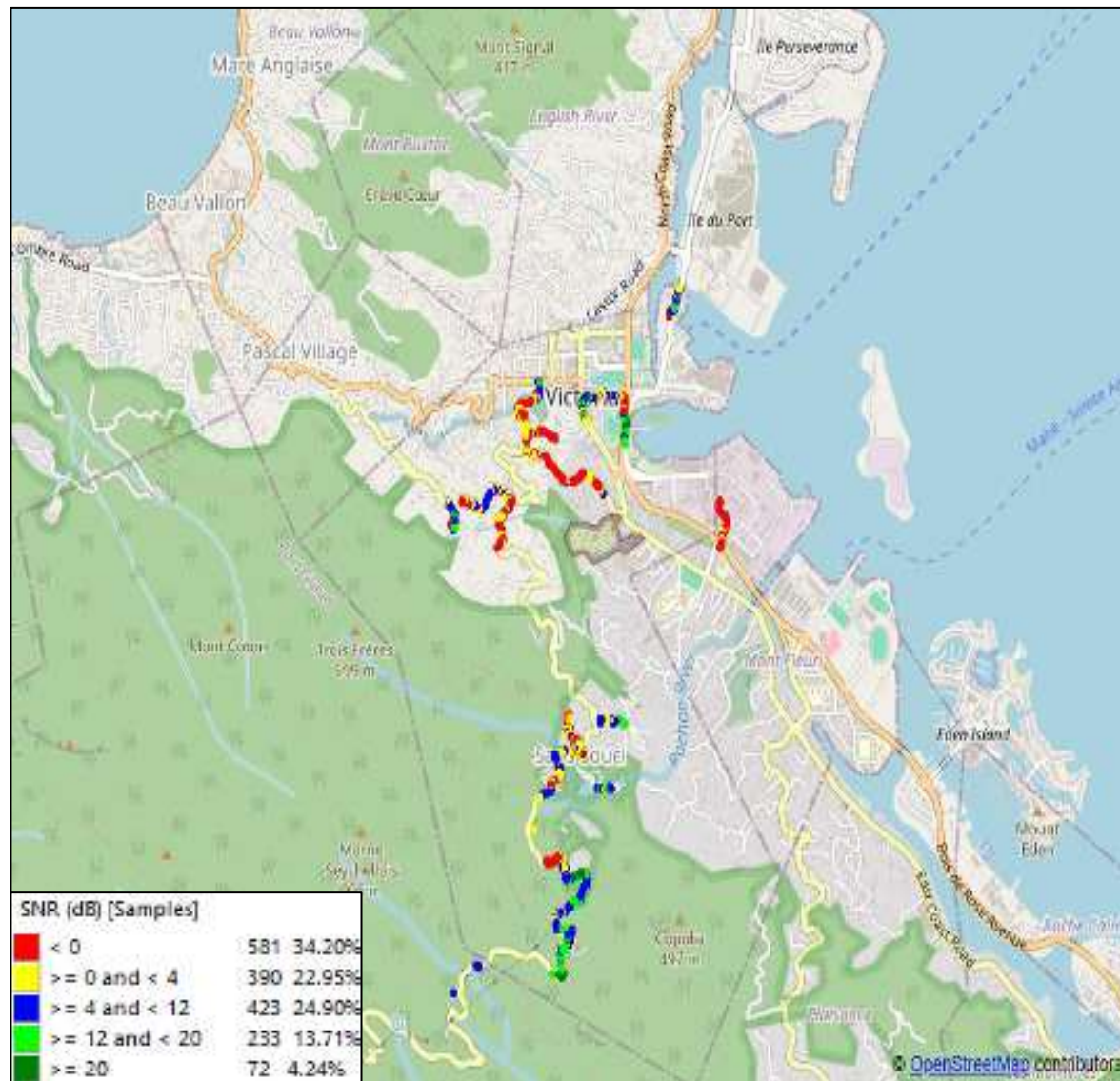
Airtel LC MO



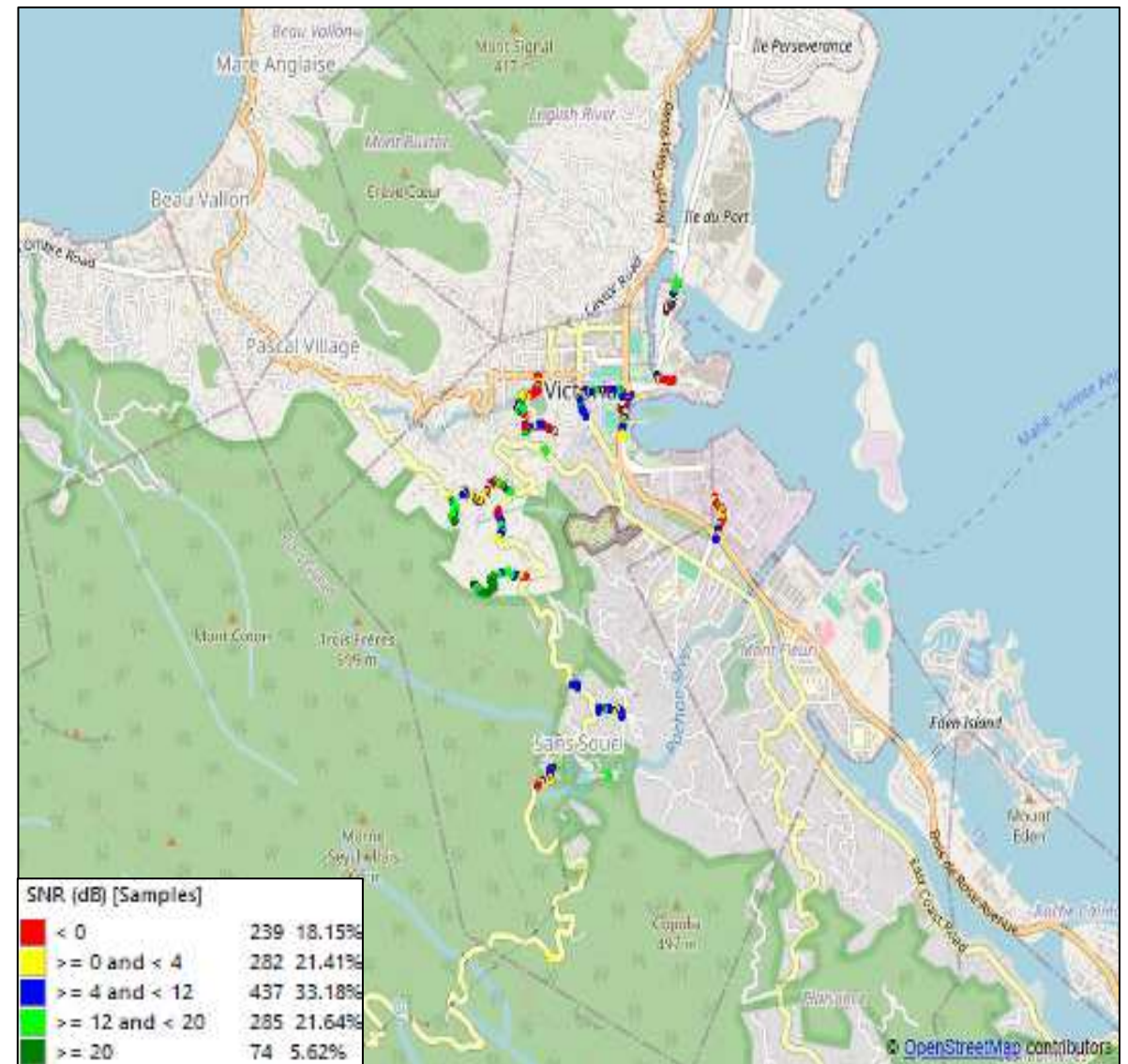
CWS LC MO



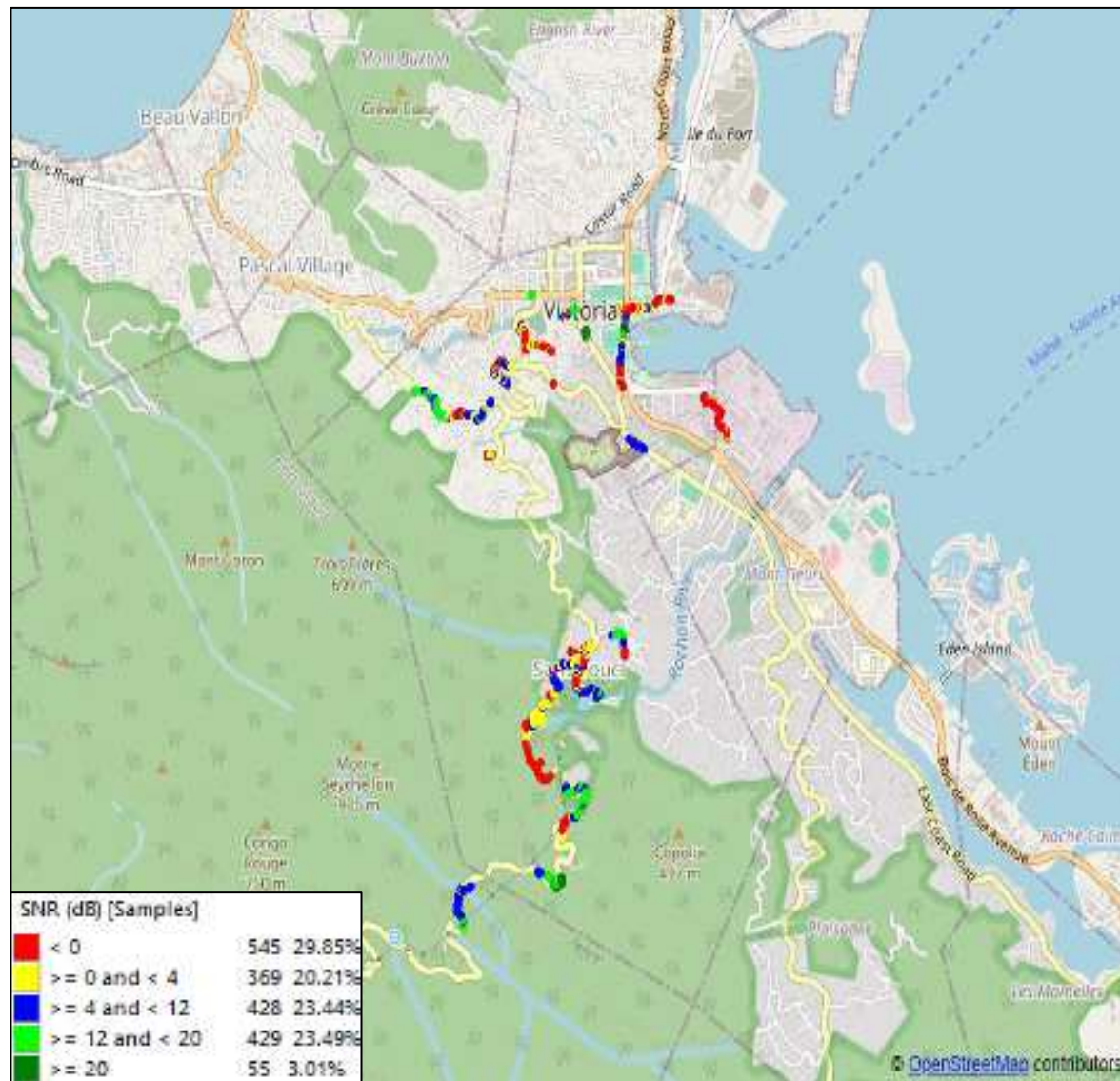
Airtel LC MO



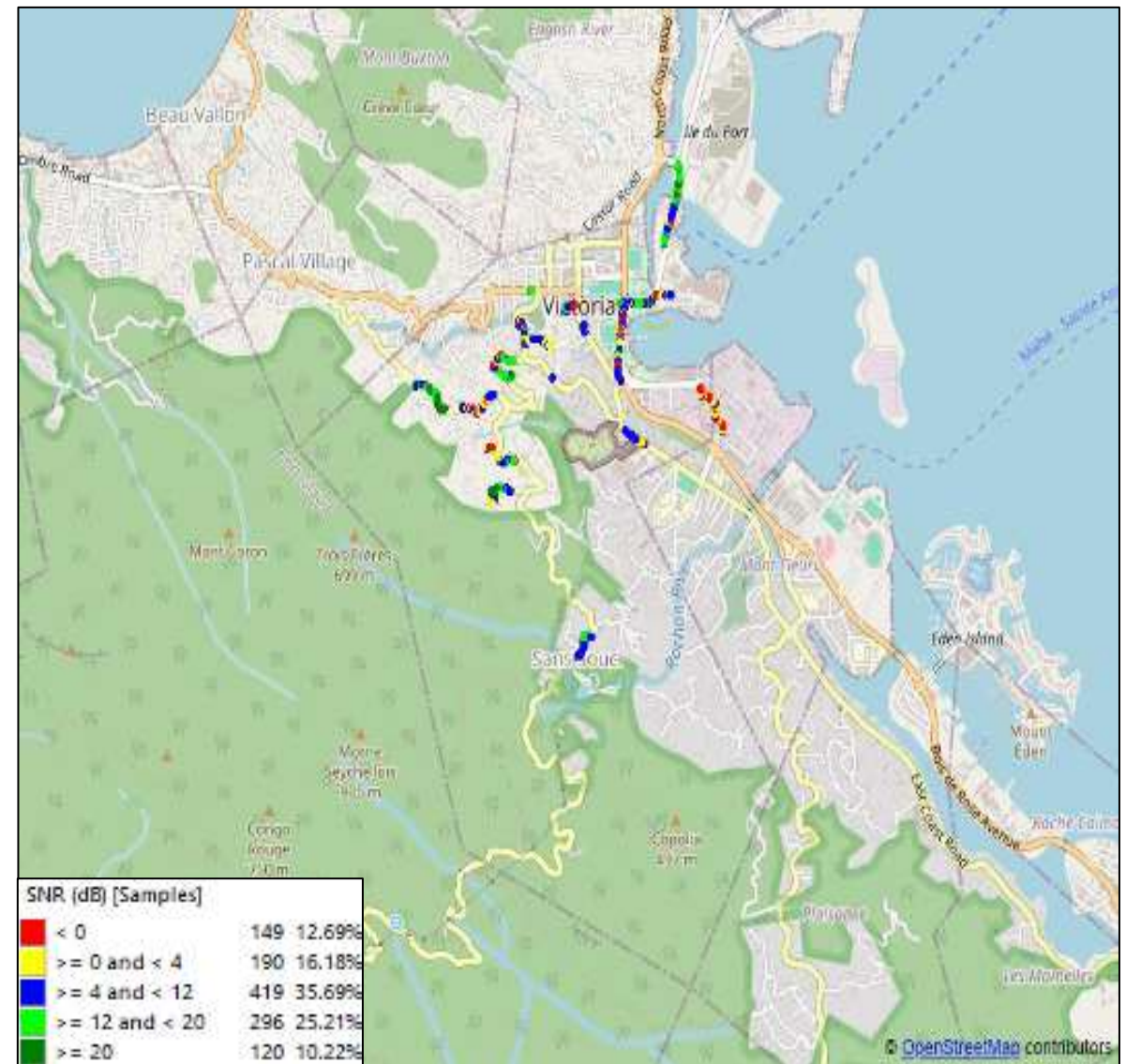
CWS LC MO



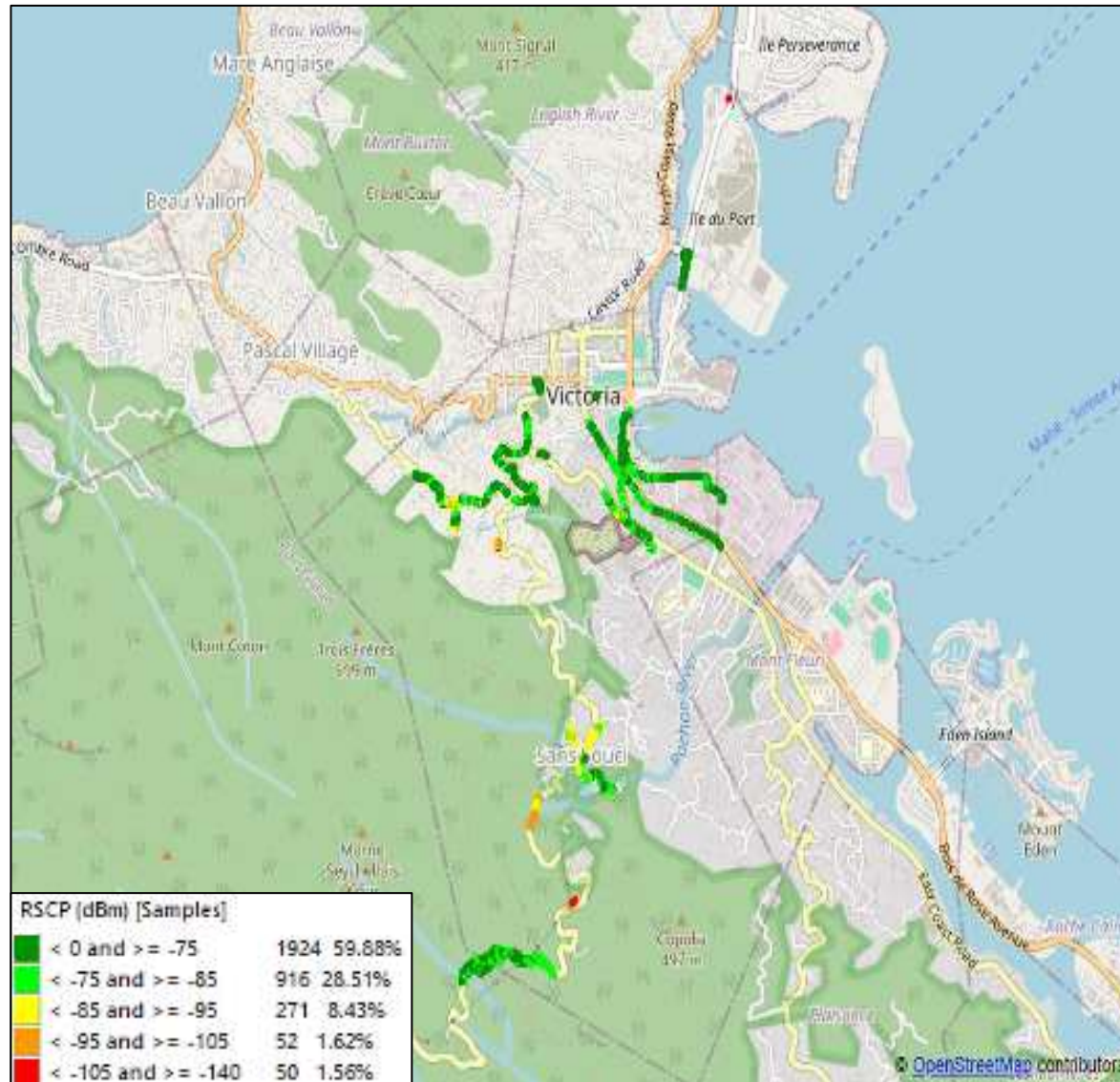
Airtel LC MO



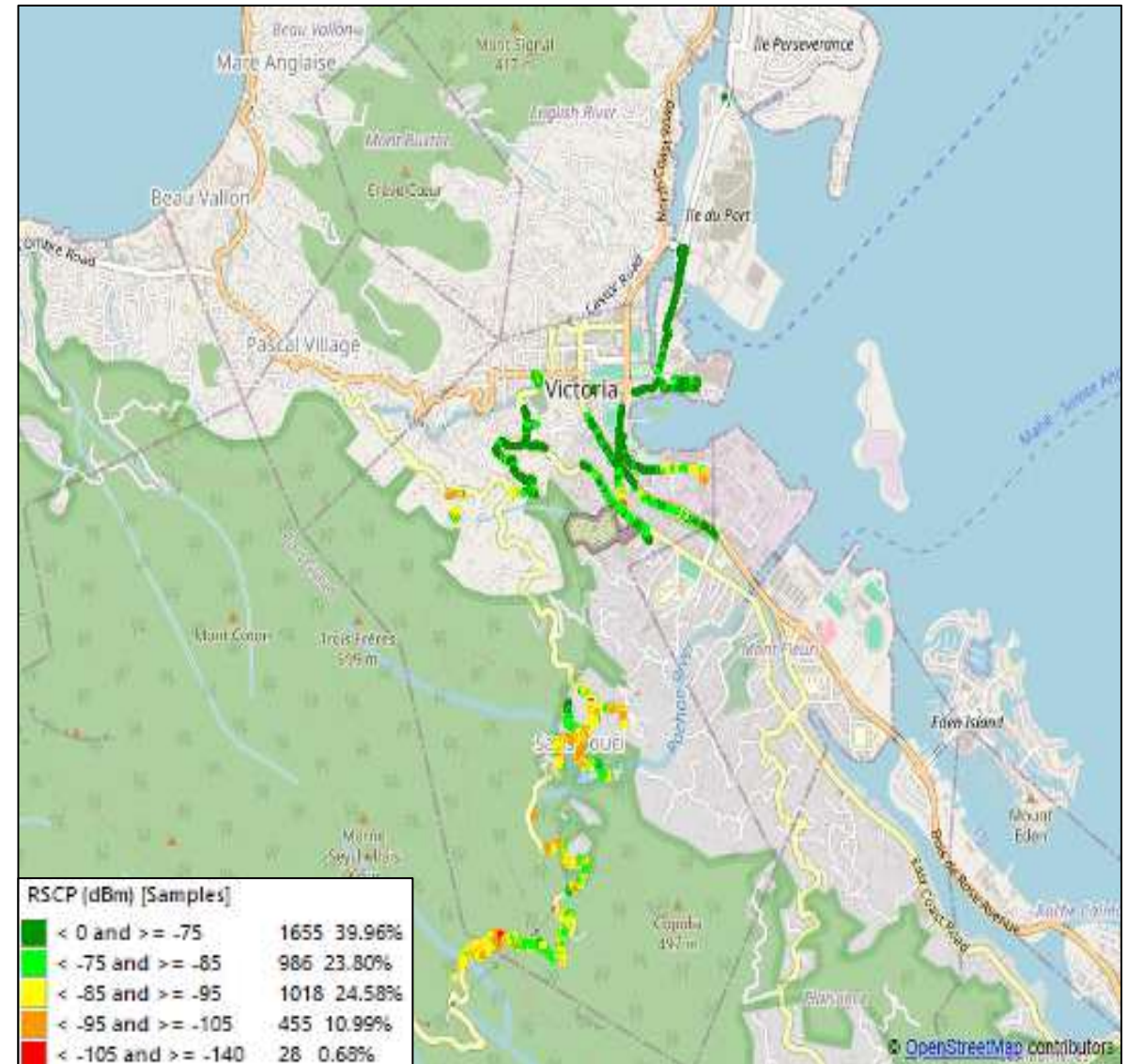
CWS LC MO



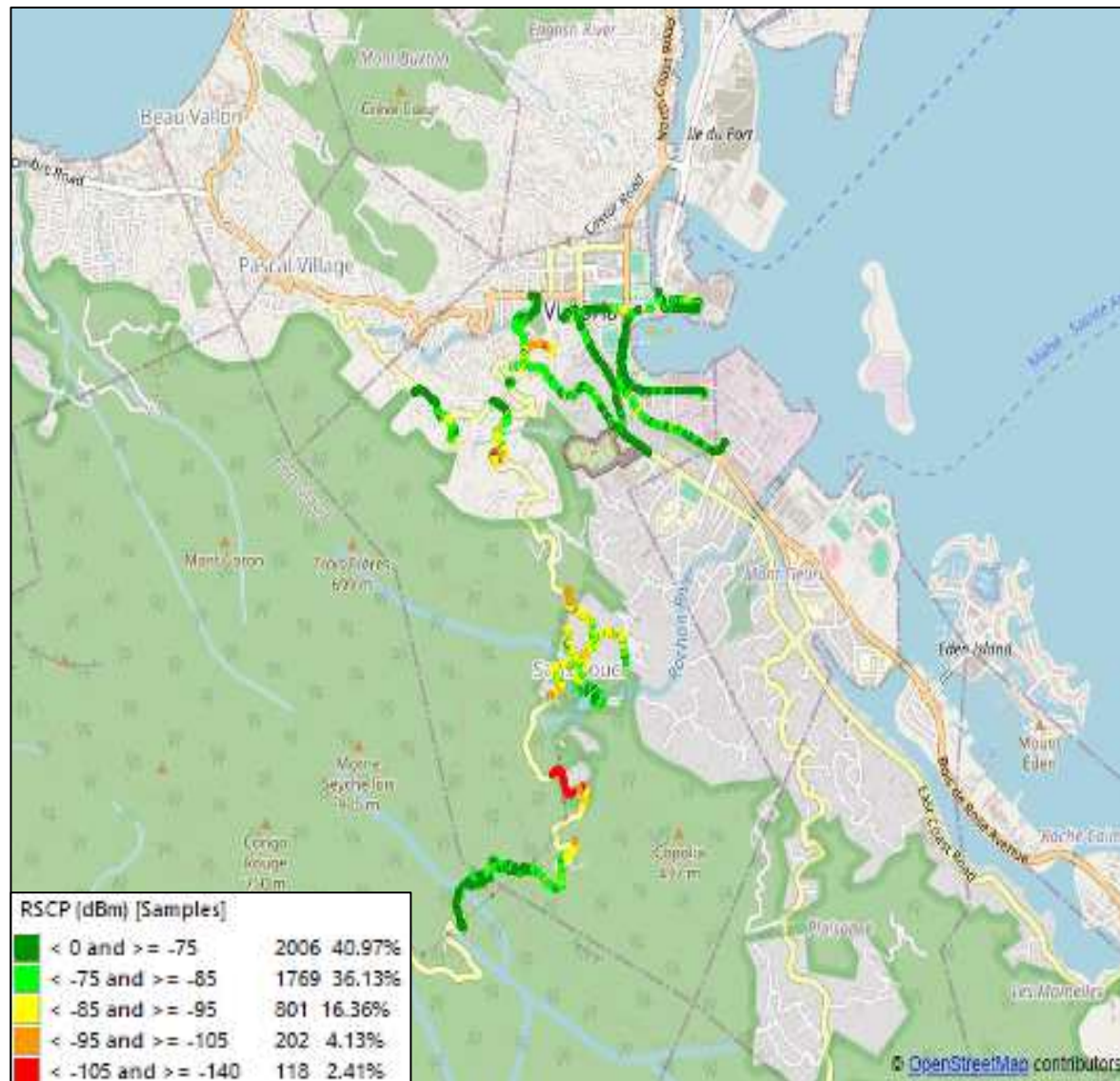
Airtel LC MO



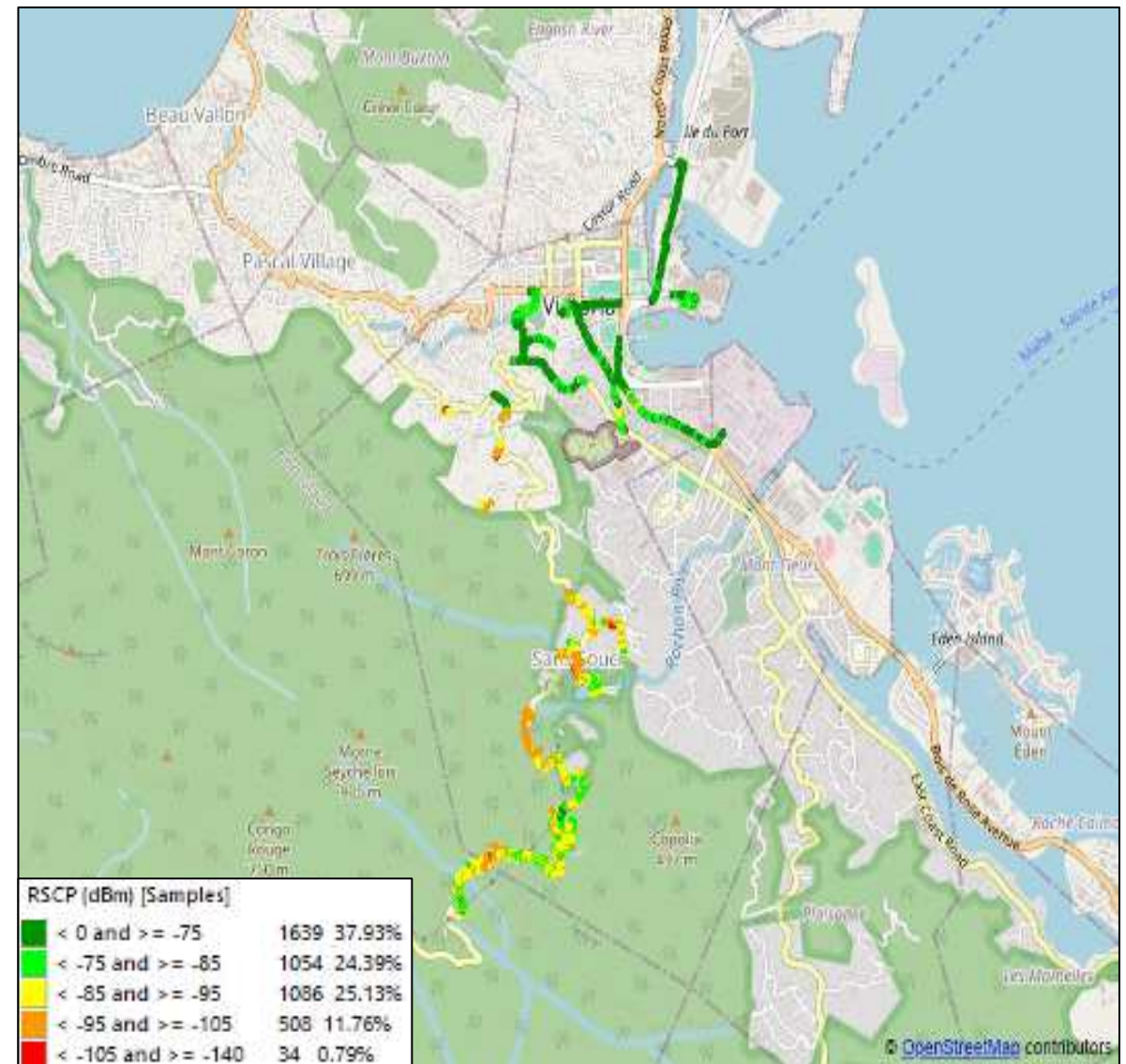
CWS LC MO



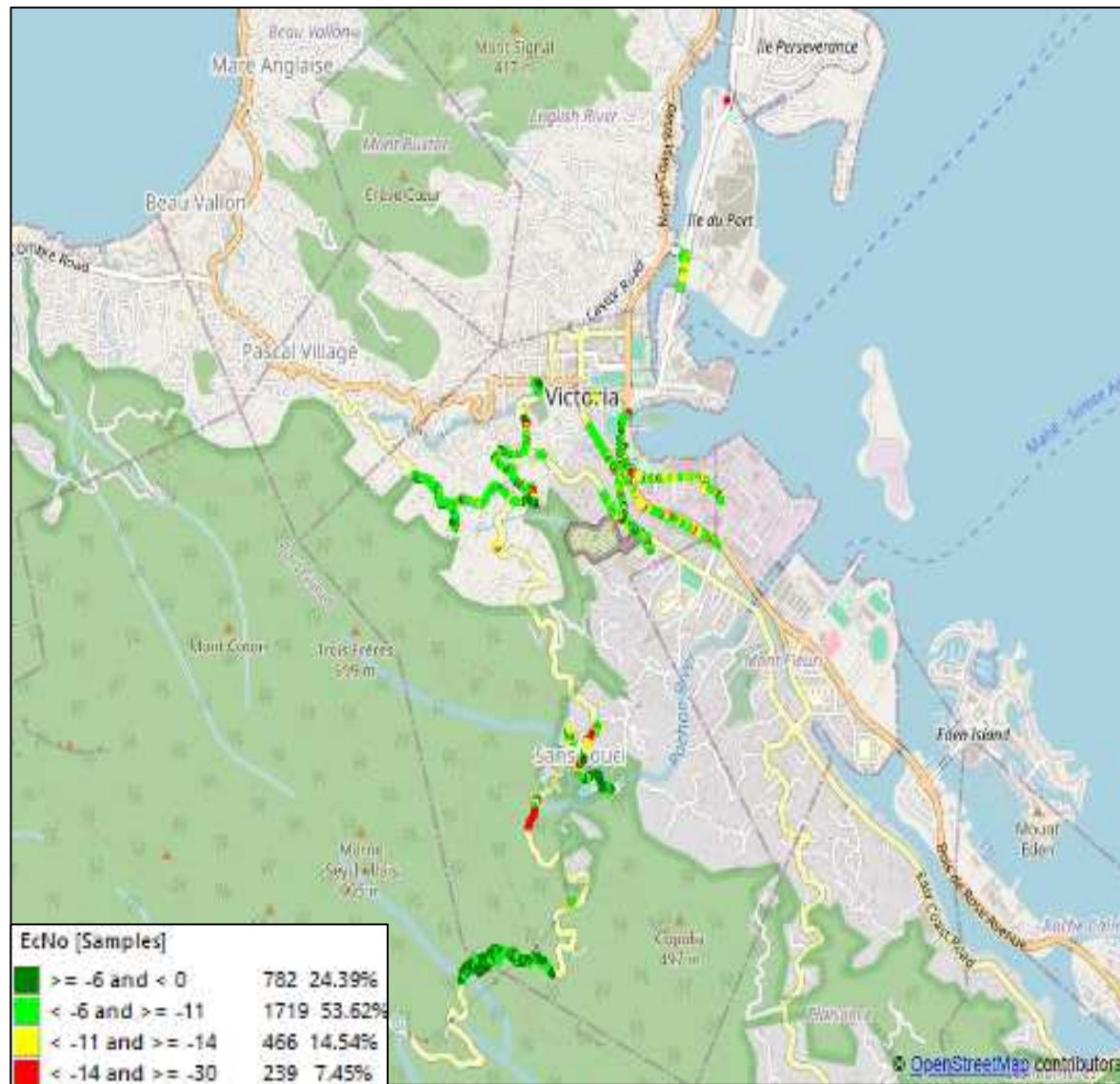
Airtel LC MO



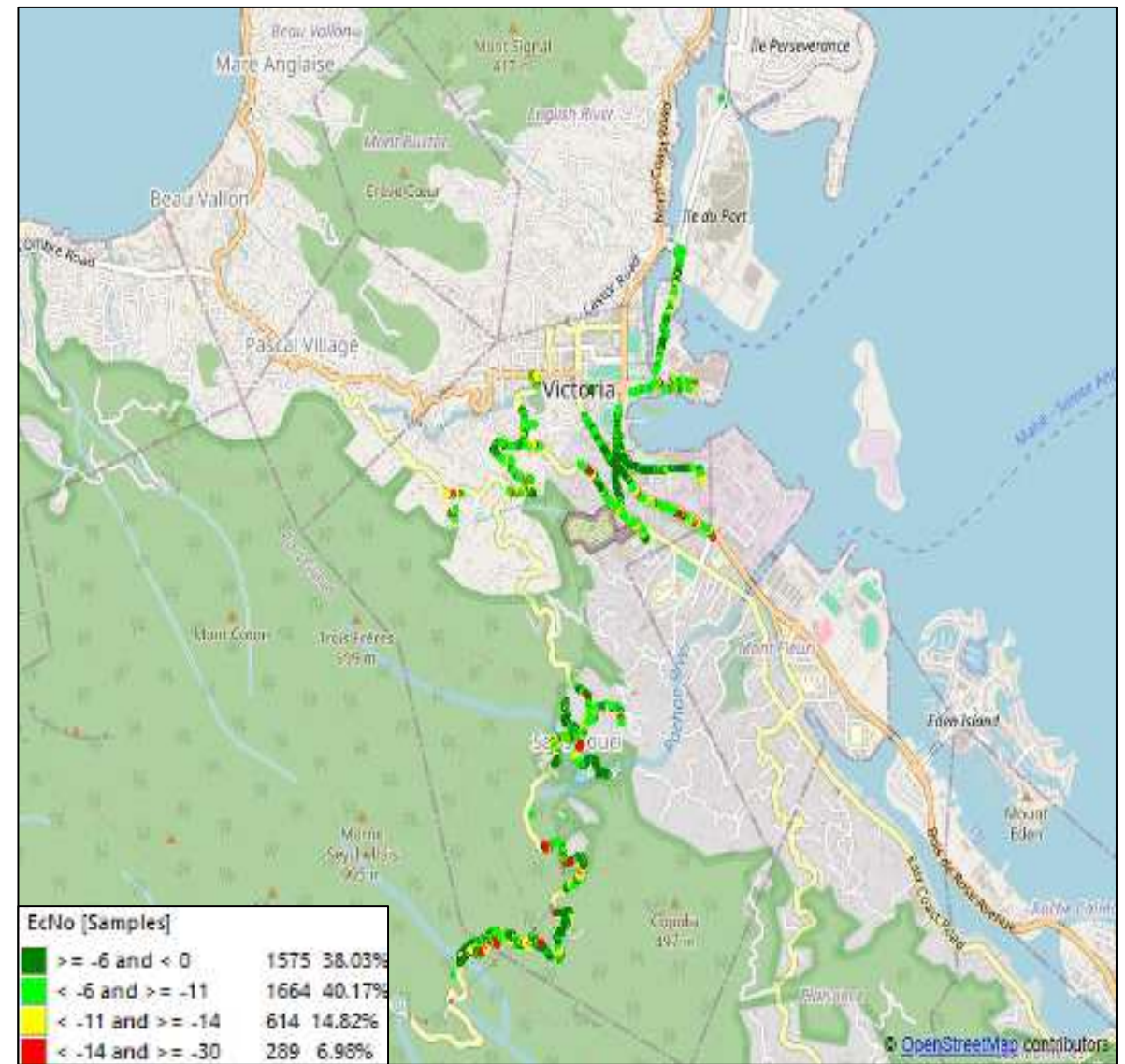
CWS LC MO



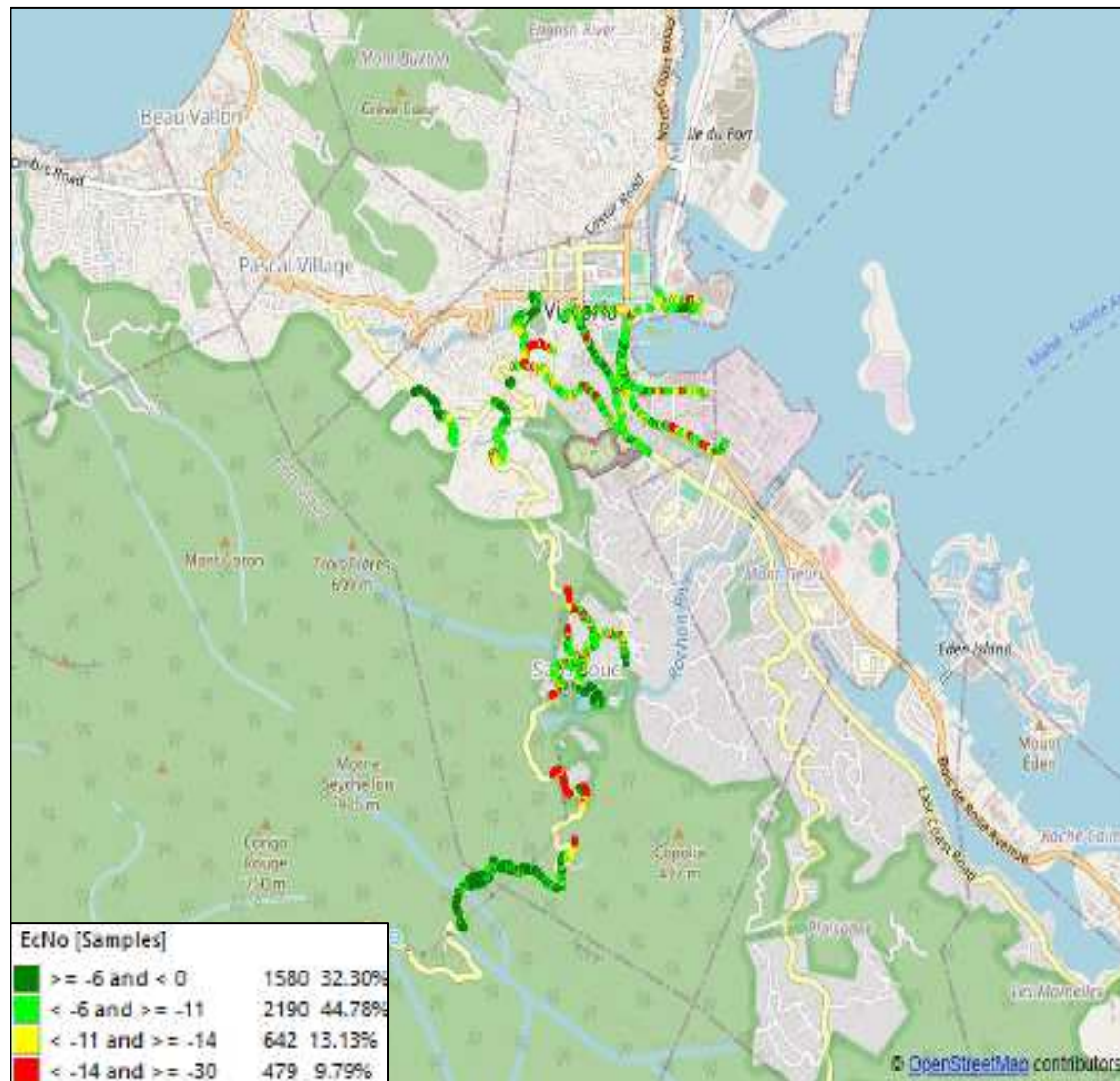
Airtel LC MO



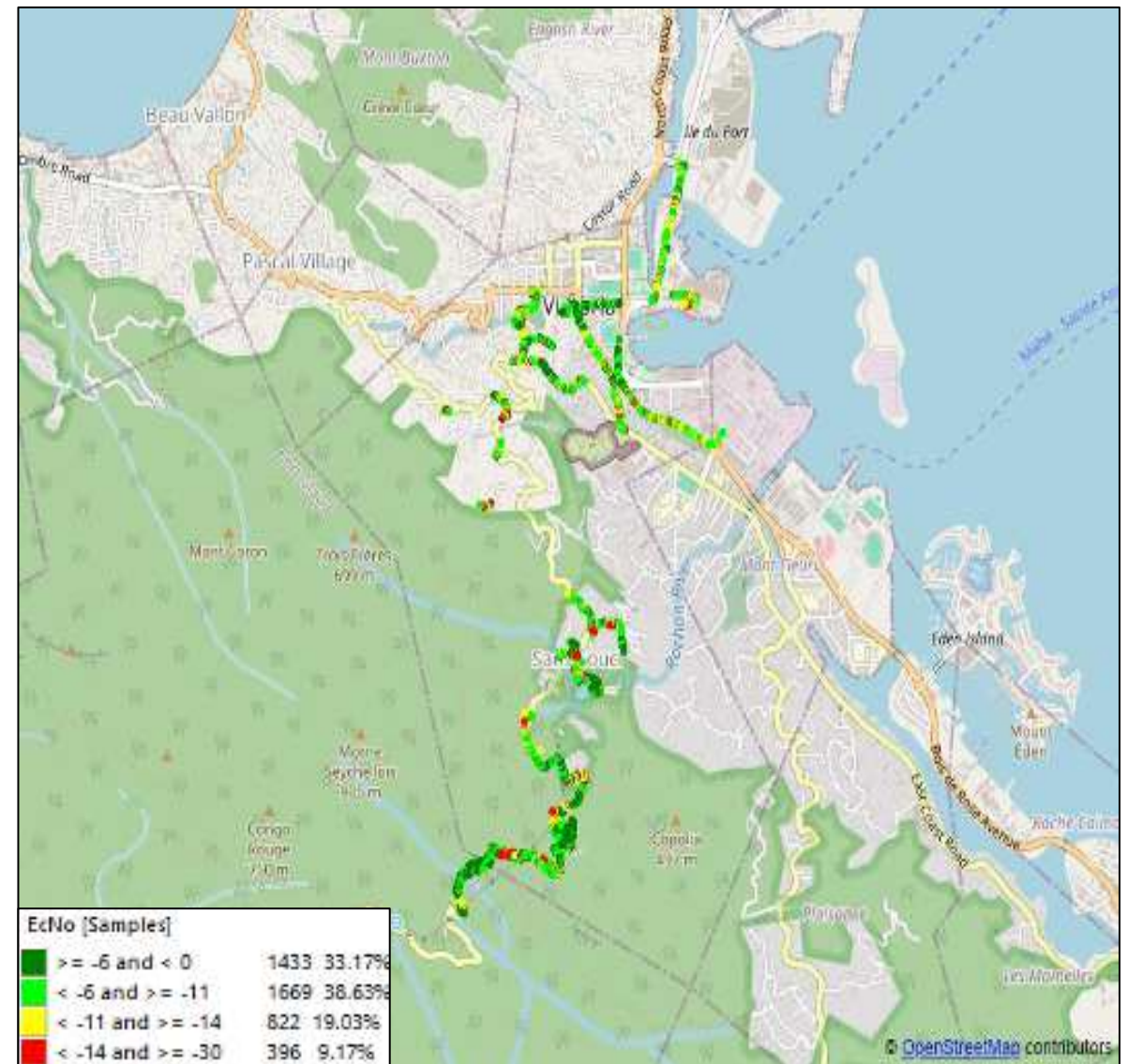
CWS LC MO



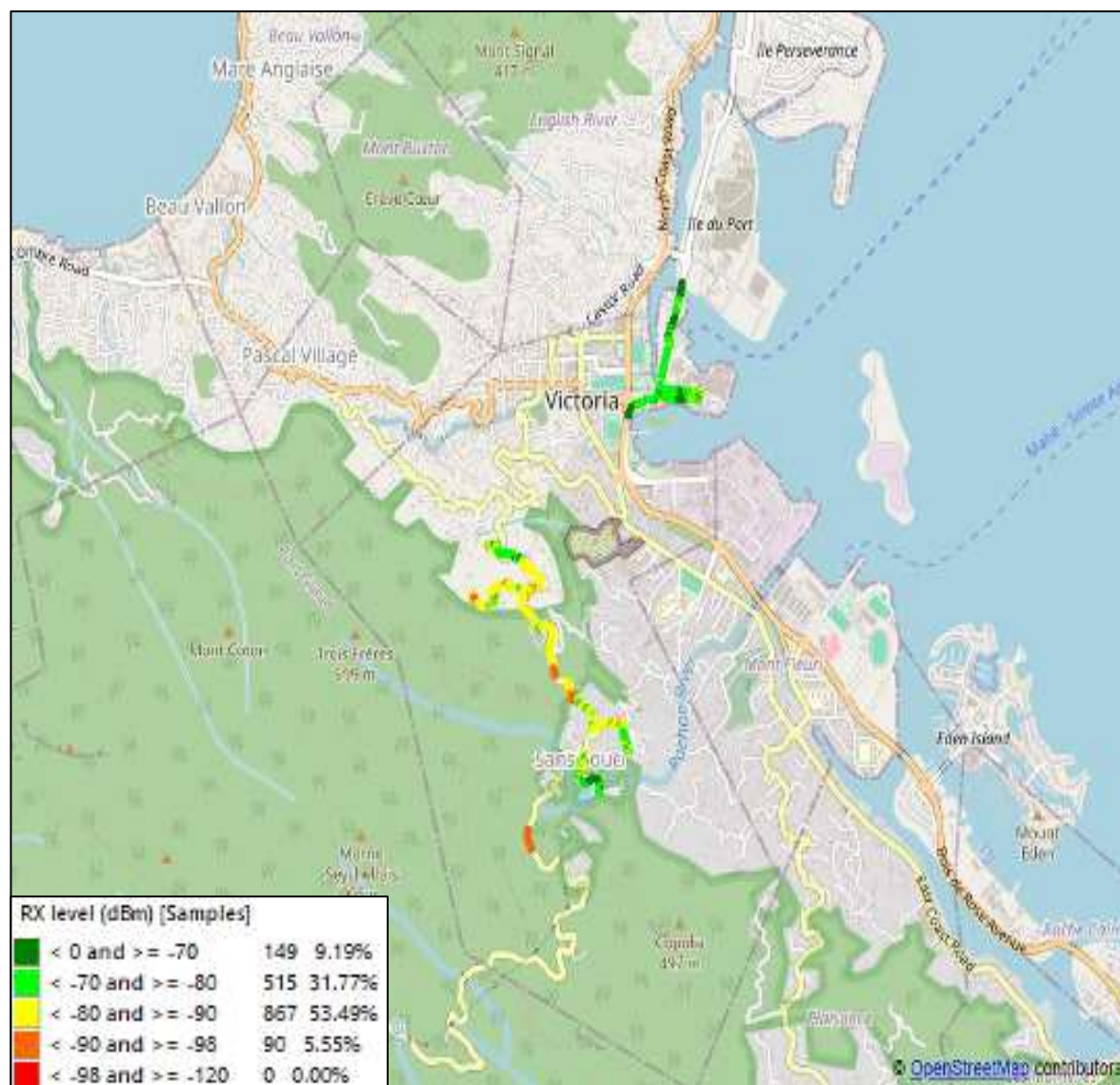
Airtel LC MO



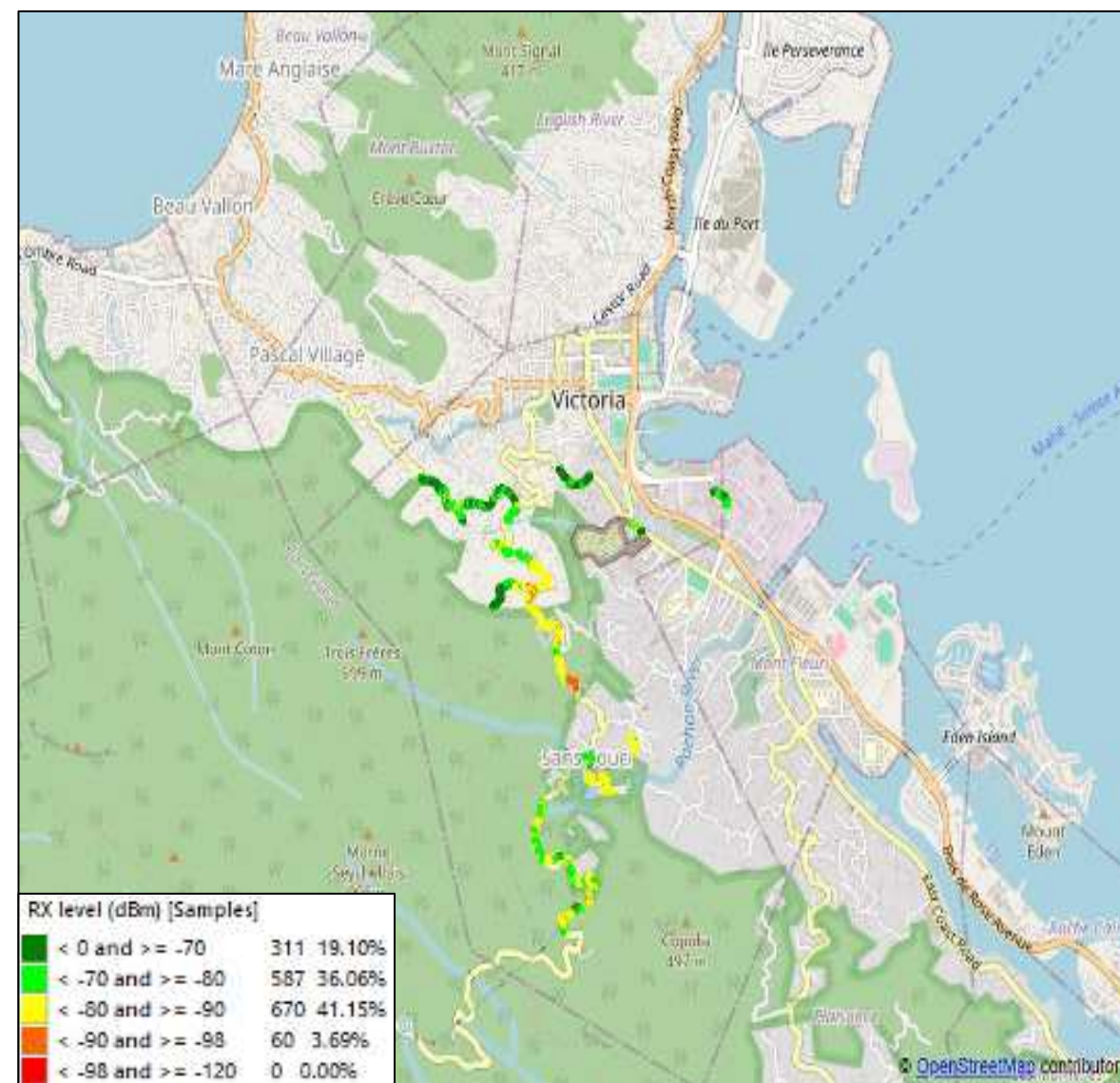
CWS LC MO



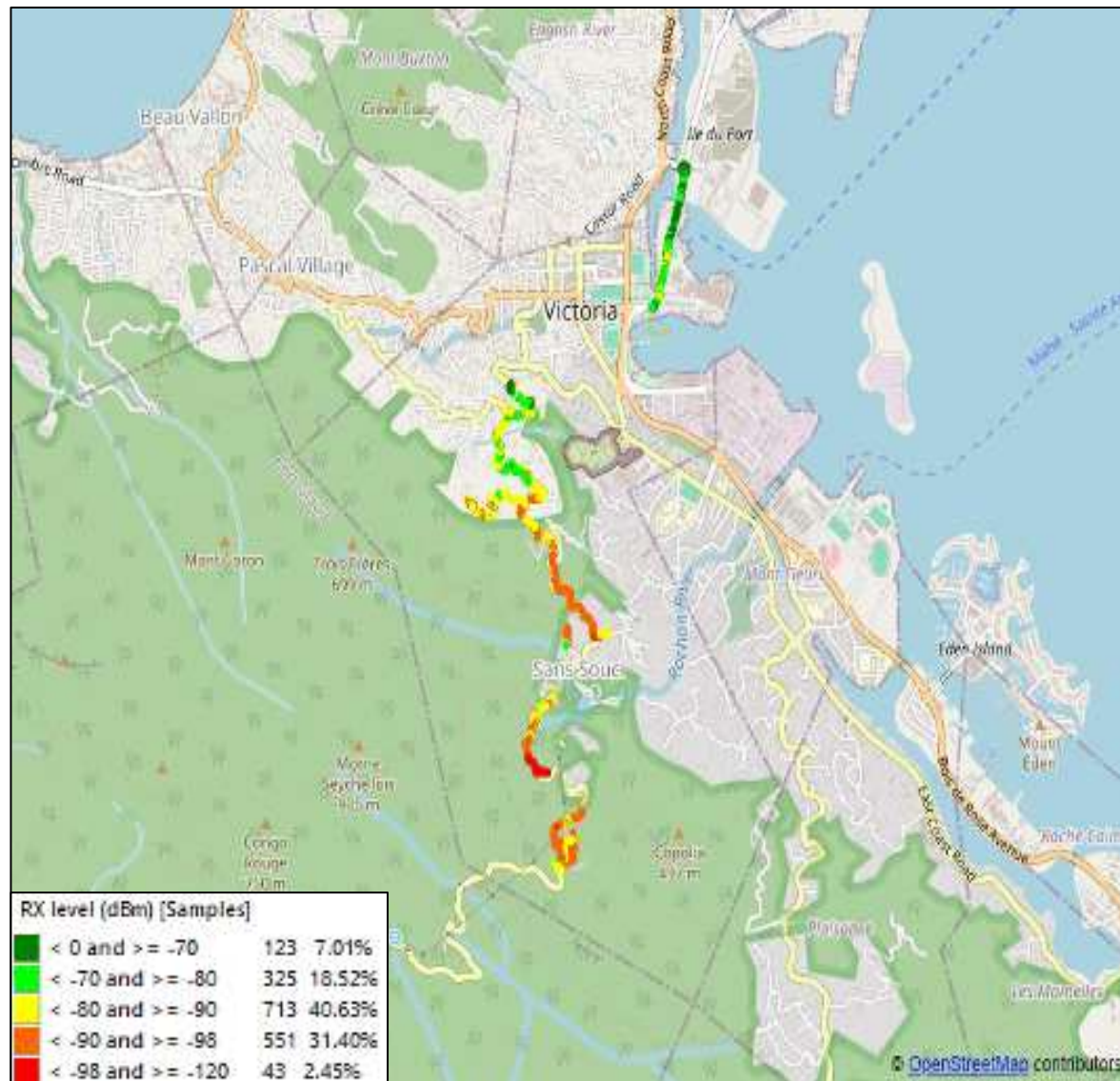
Airtel LC MO



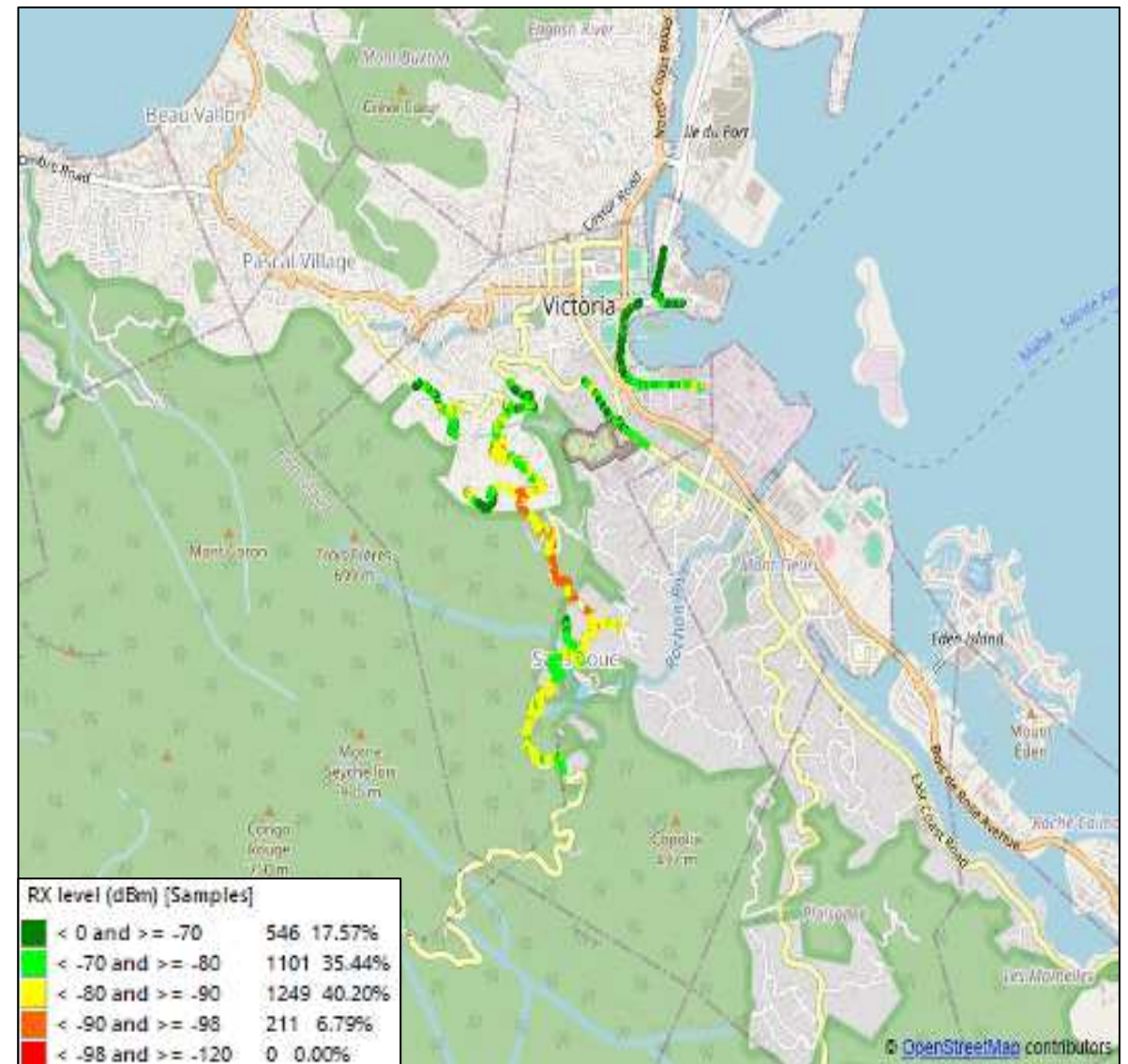
CWS LC MO



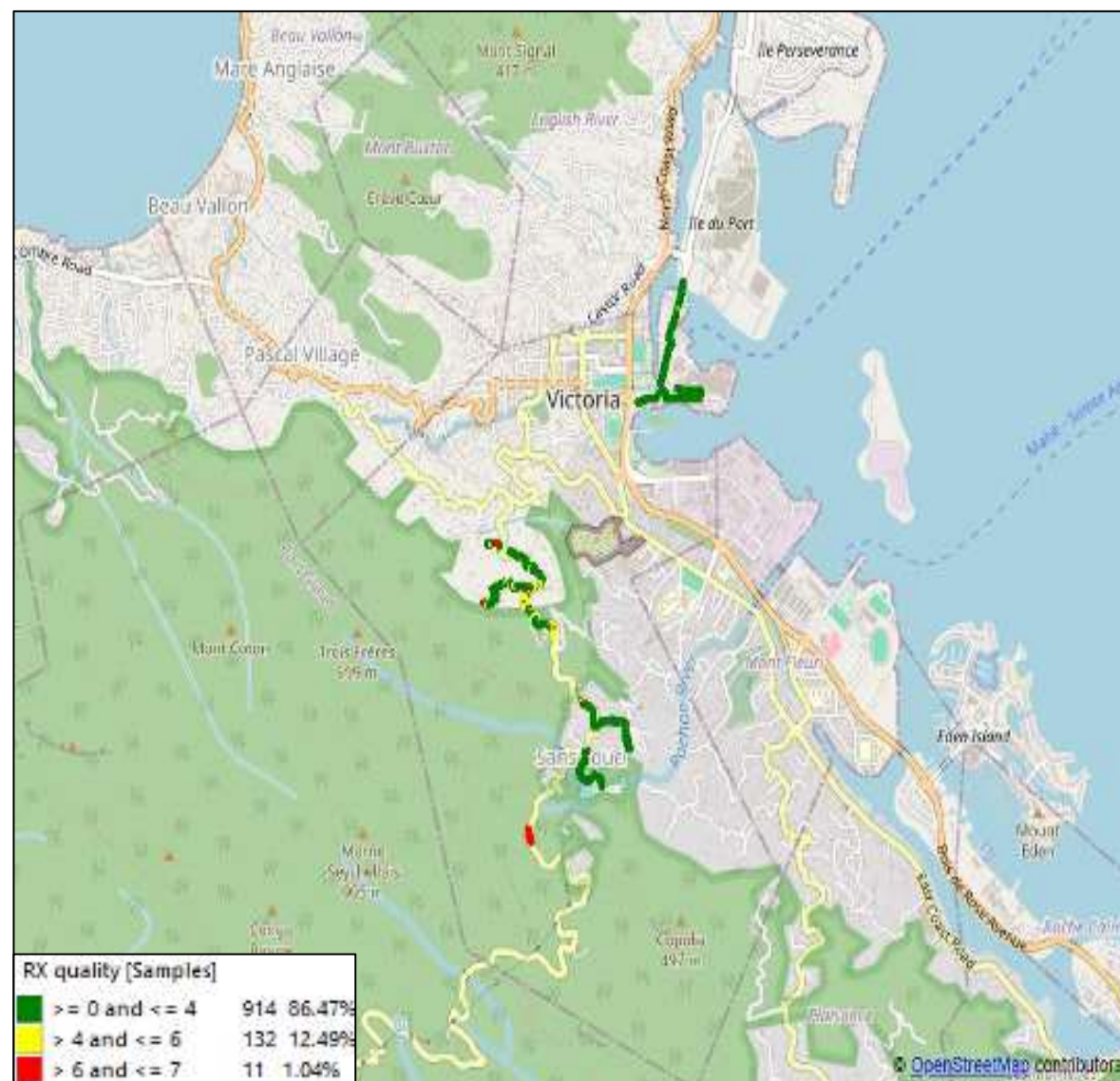
Airtel LC MO



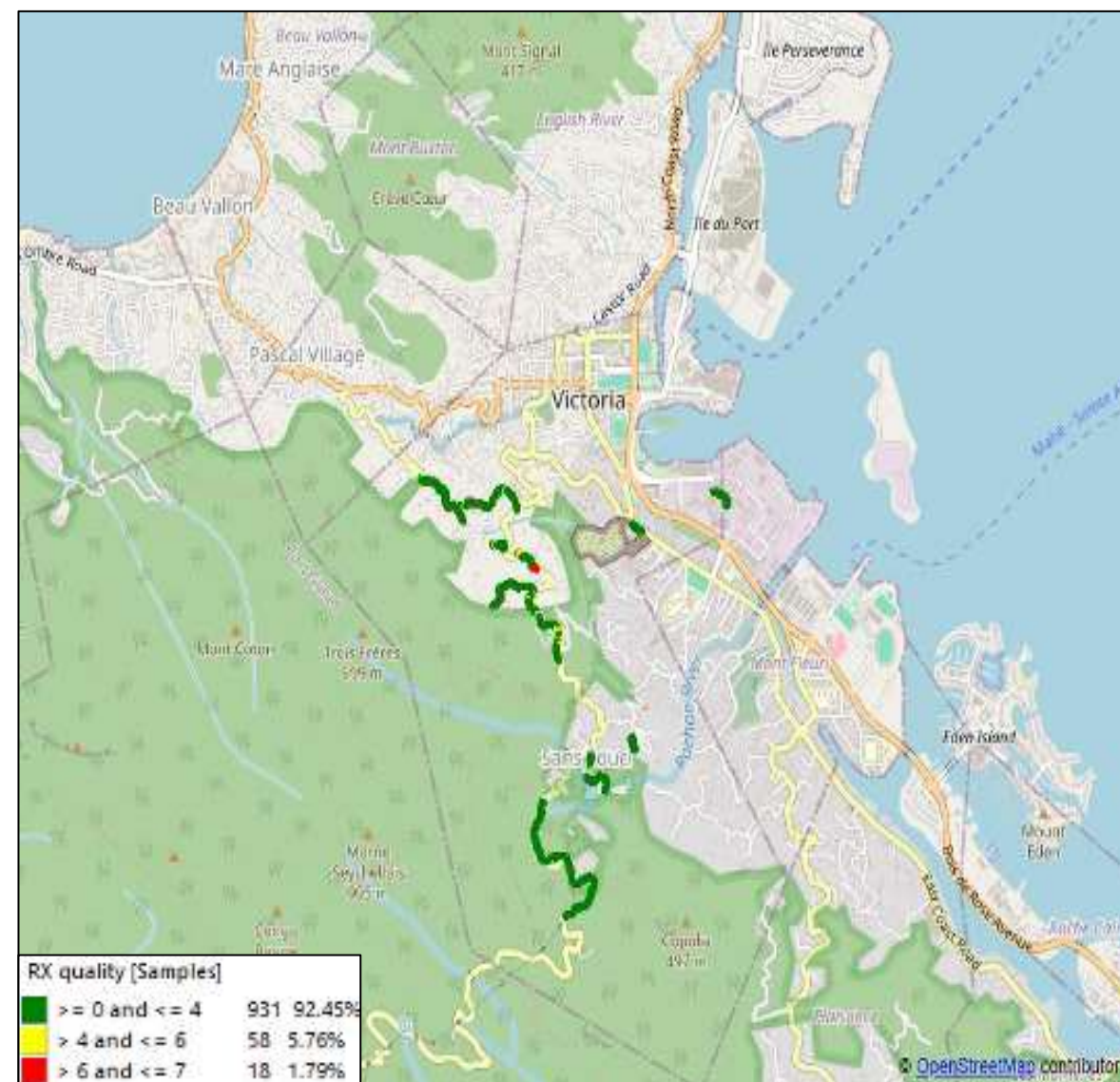
CWS LC MO



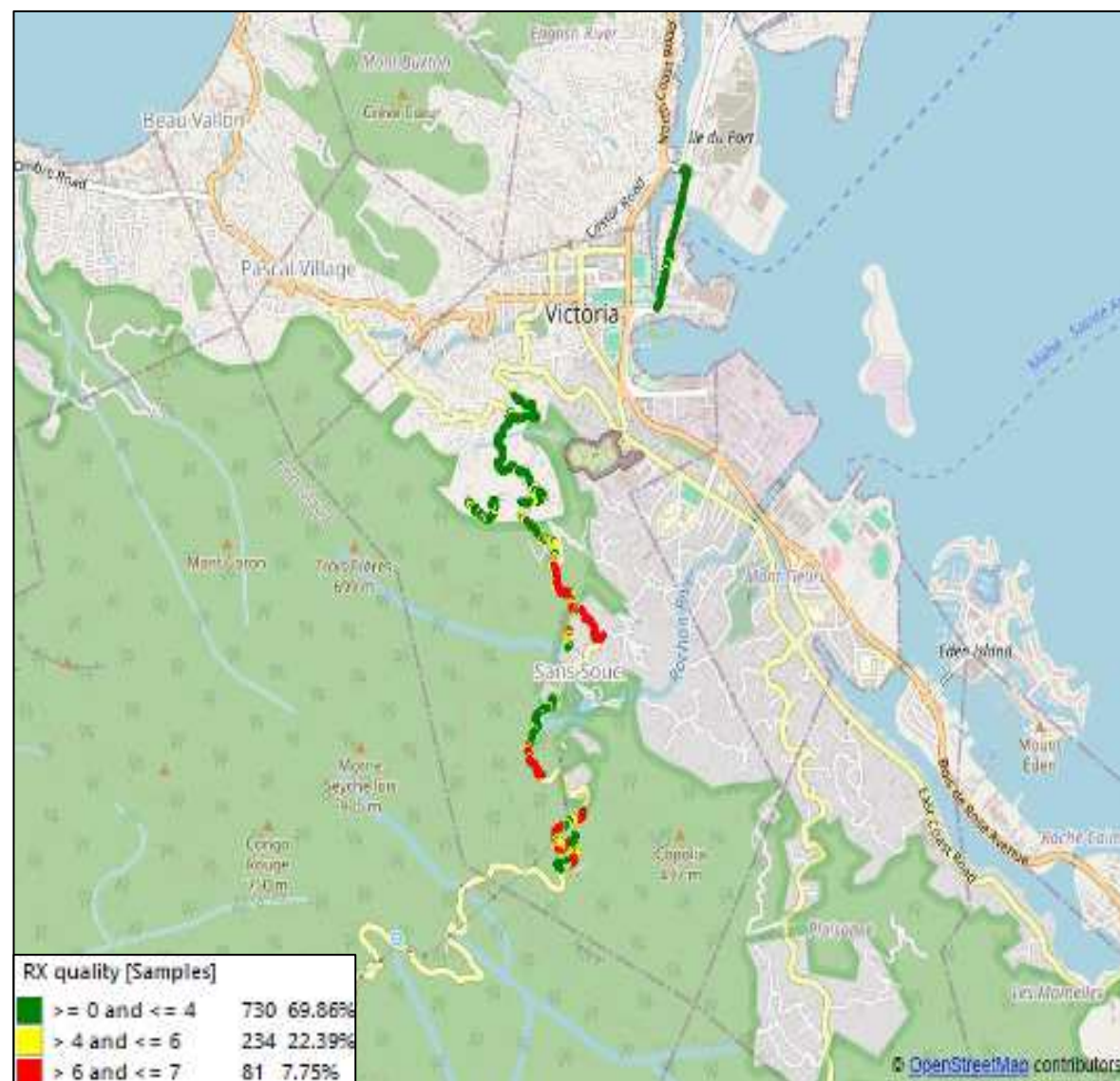
Airtel LC MO



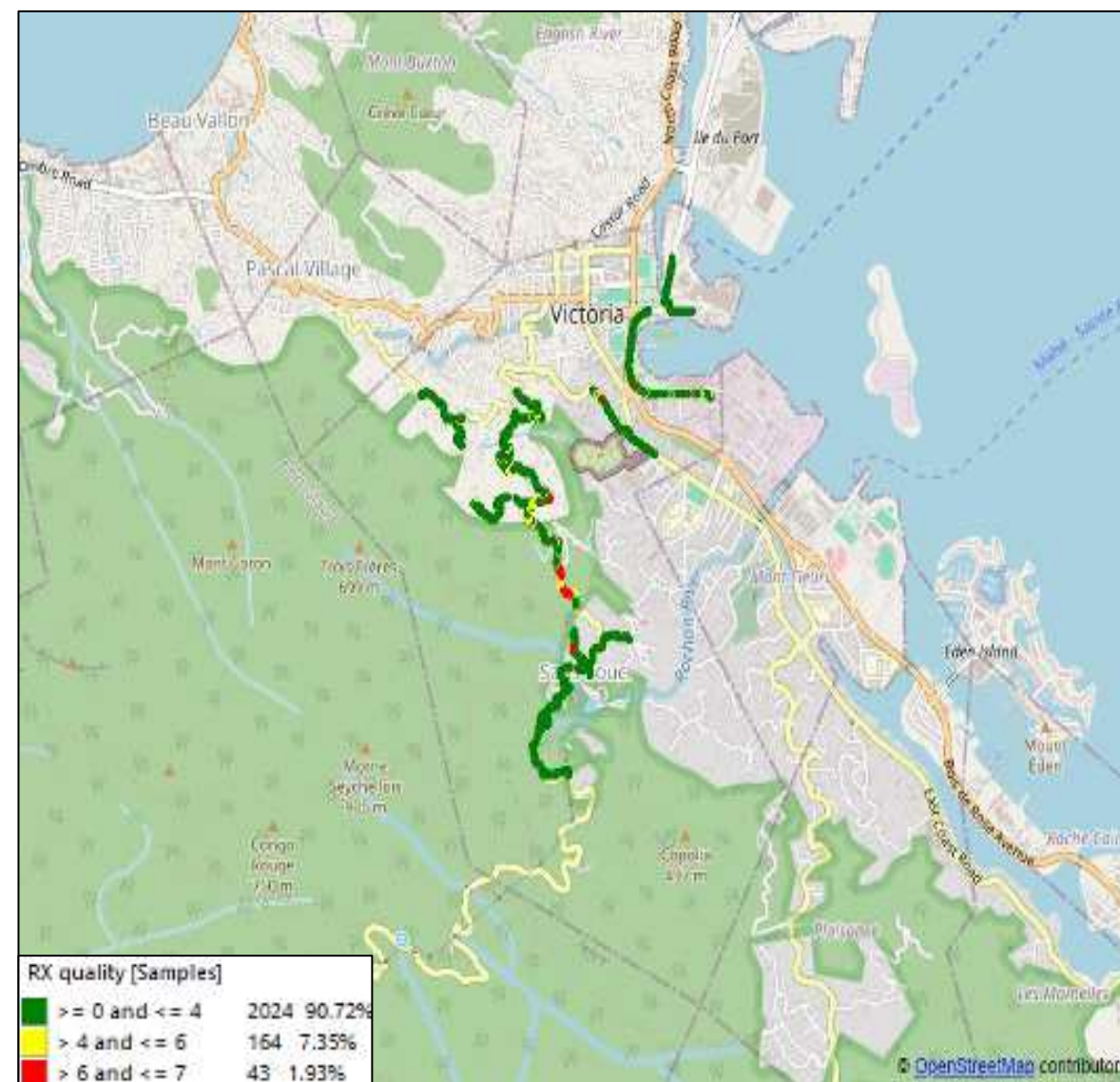
CWS LC MO



Airtel LC MO

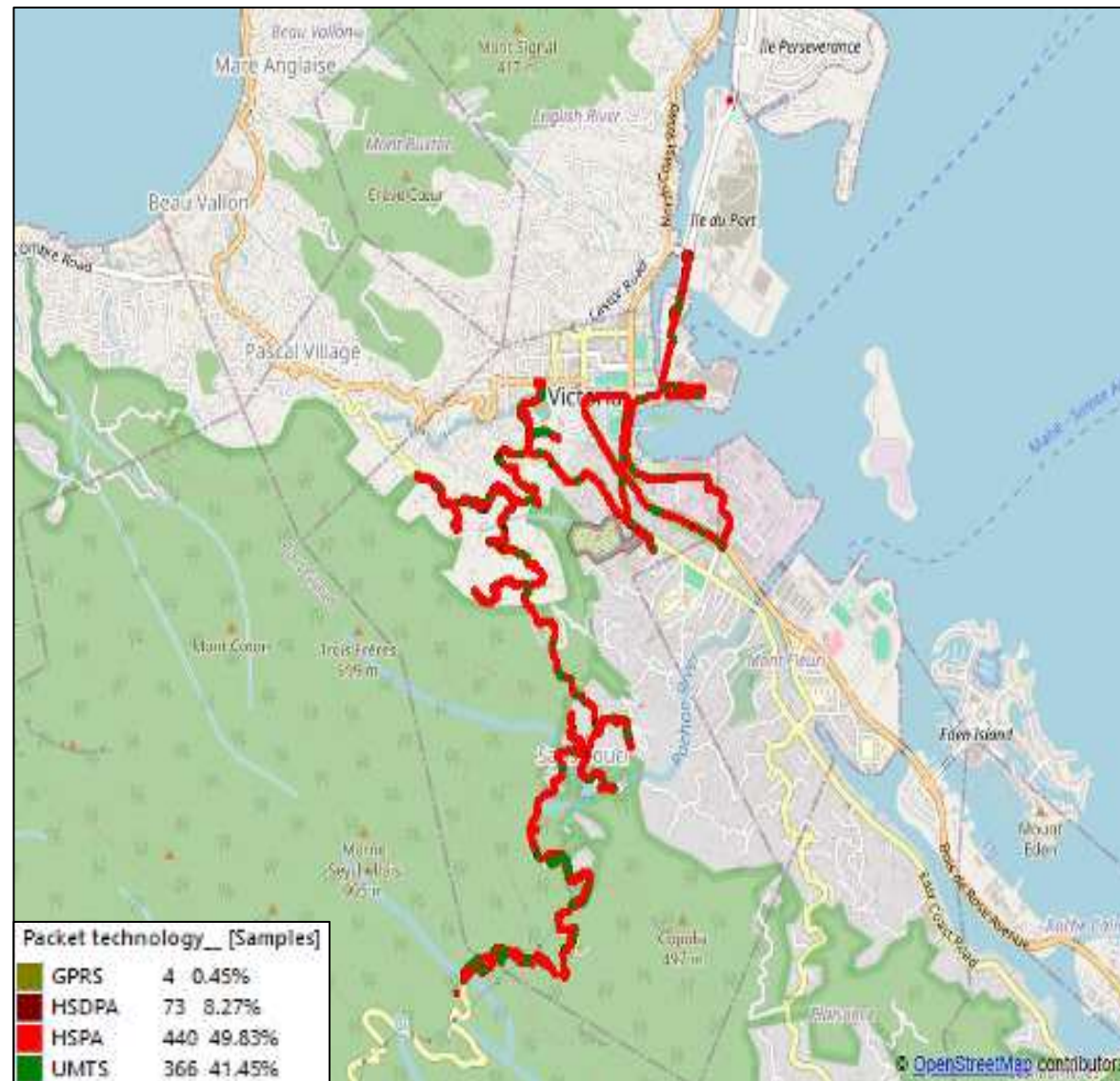


CWS LC MO

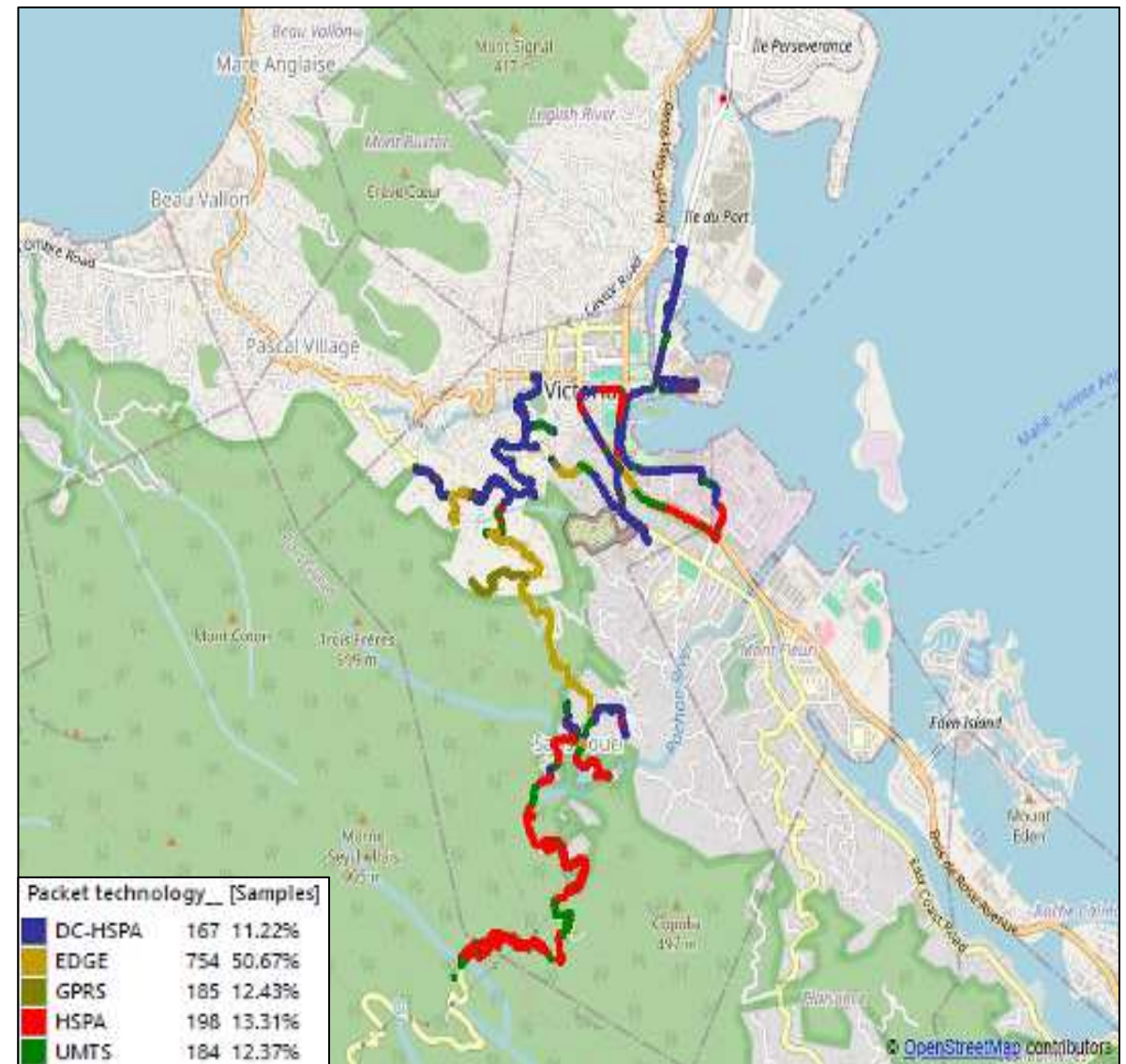


3G PREFERRED DATA DRIVE PLOTS

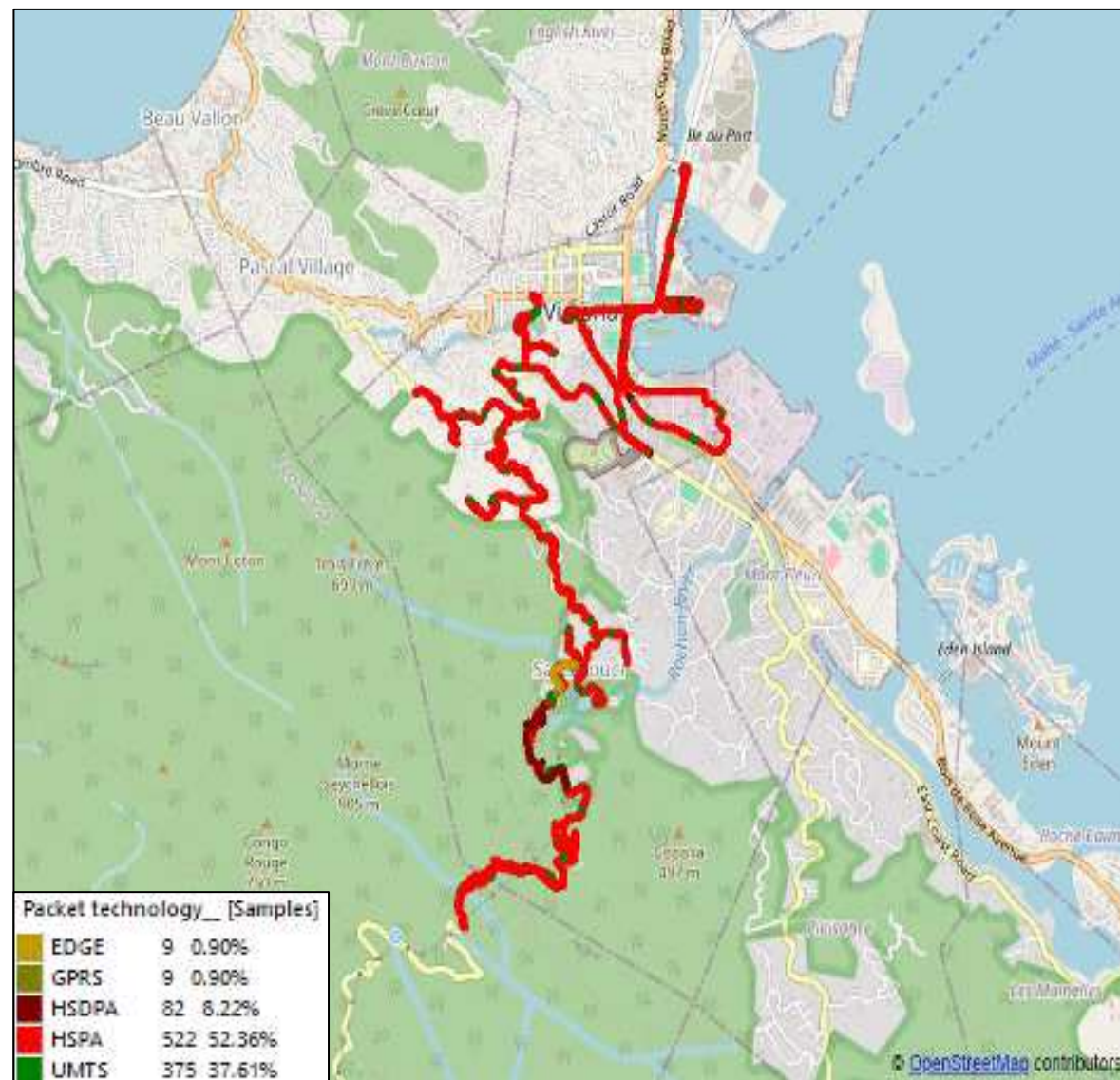
Airtel Data 3G



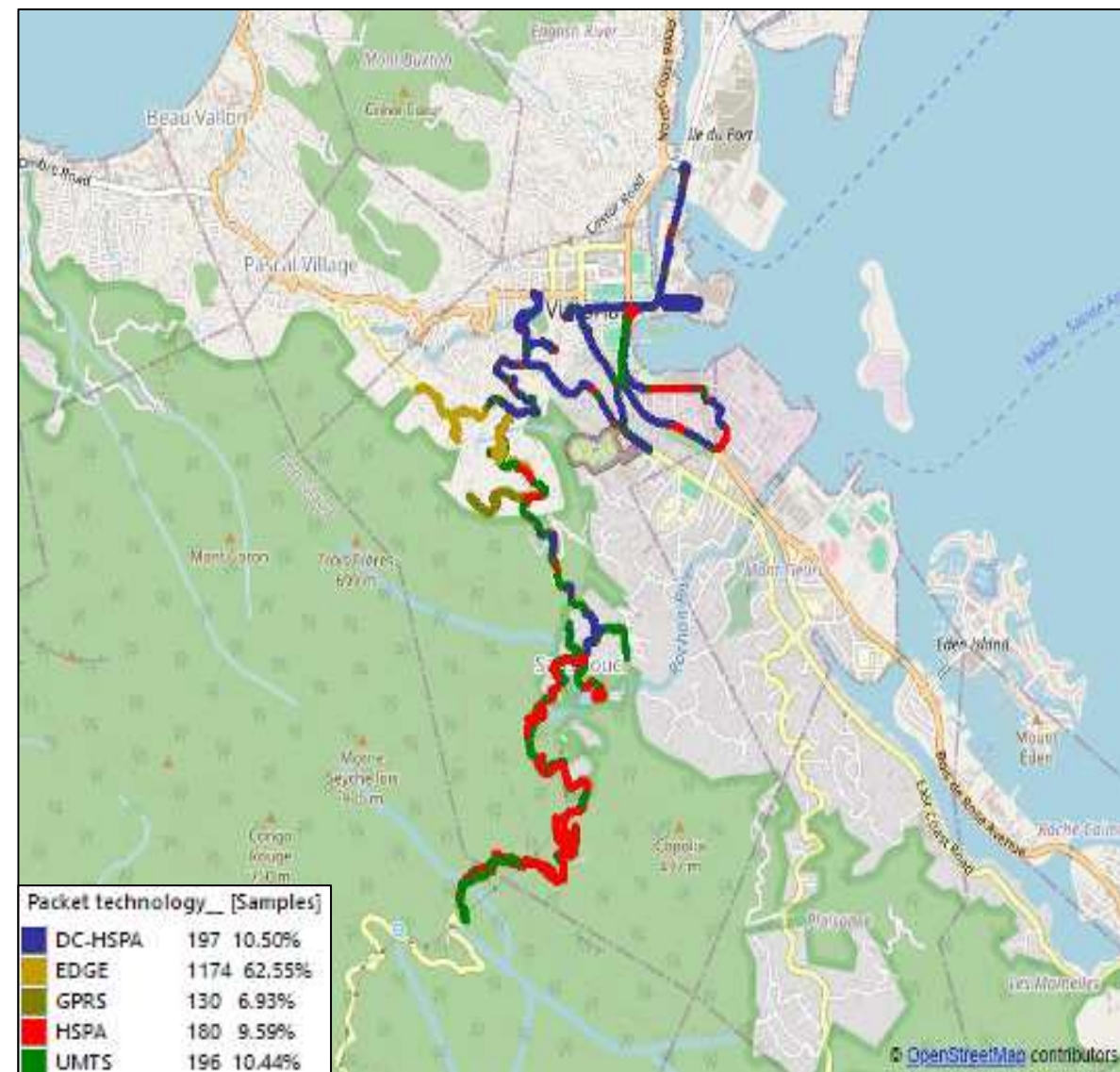
CWS Data 3G



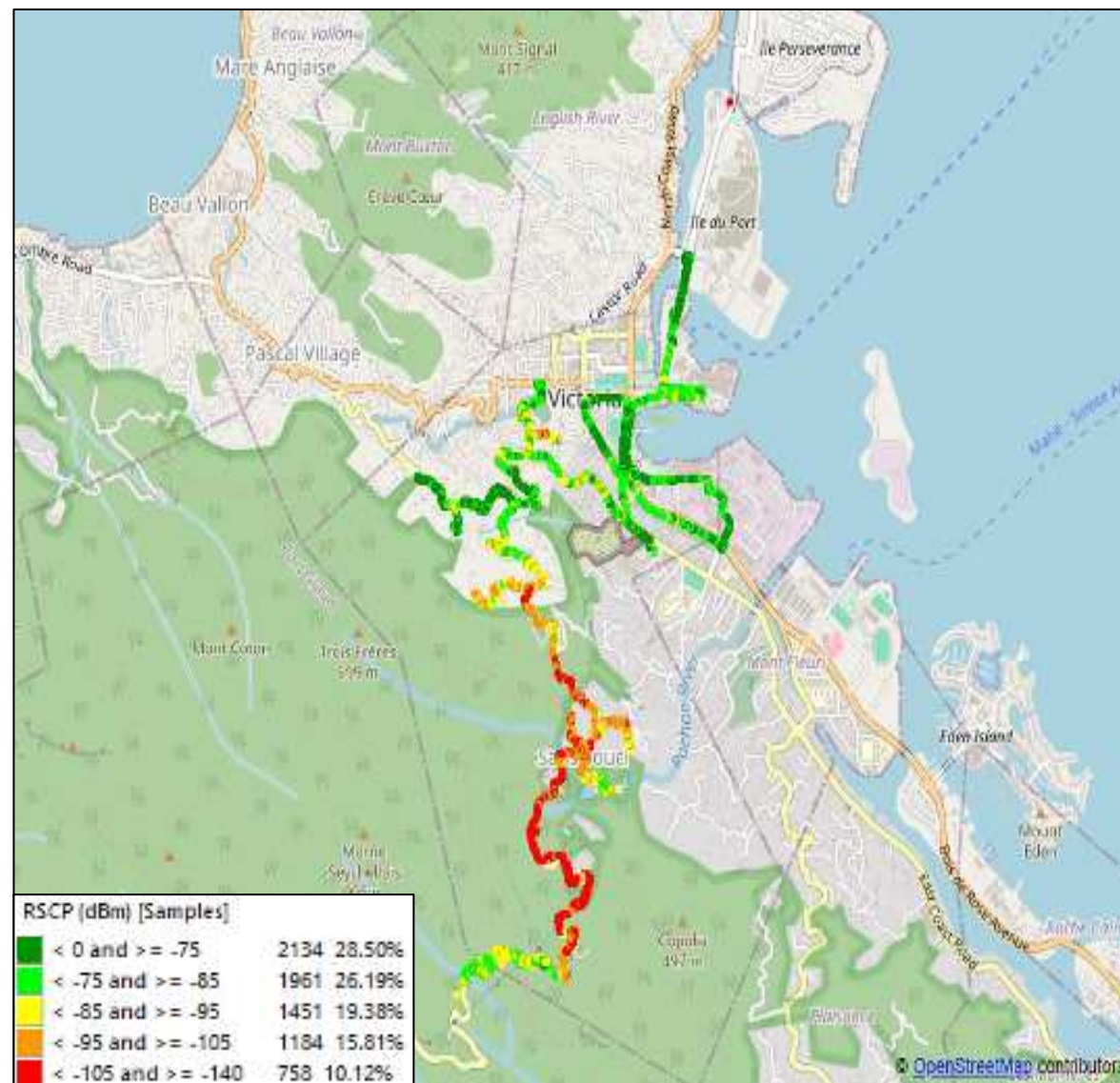
Airtel Data 3G



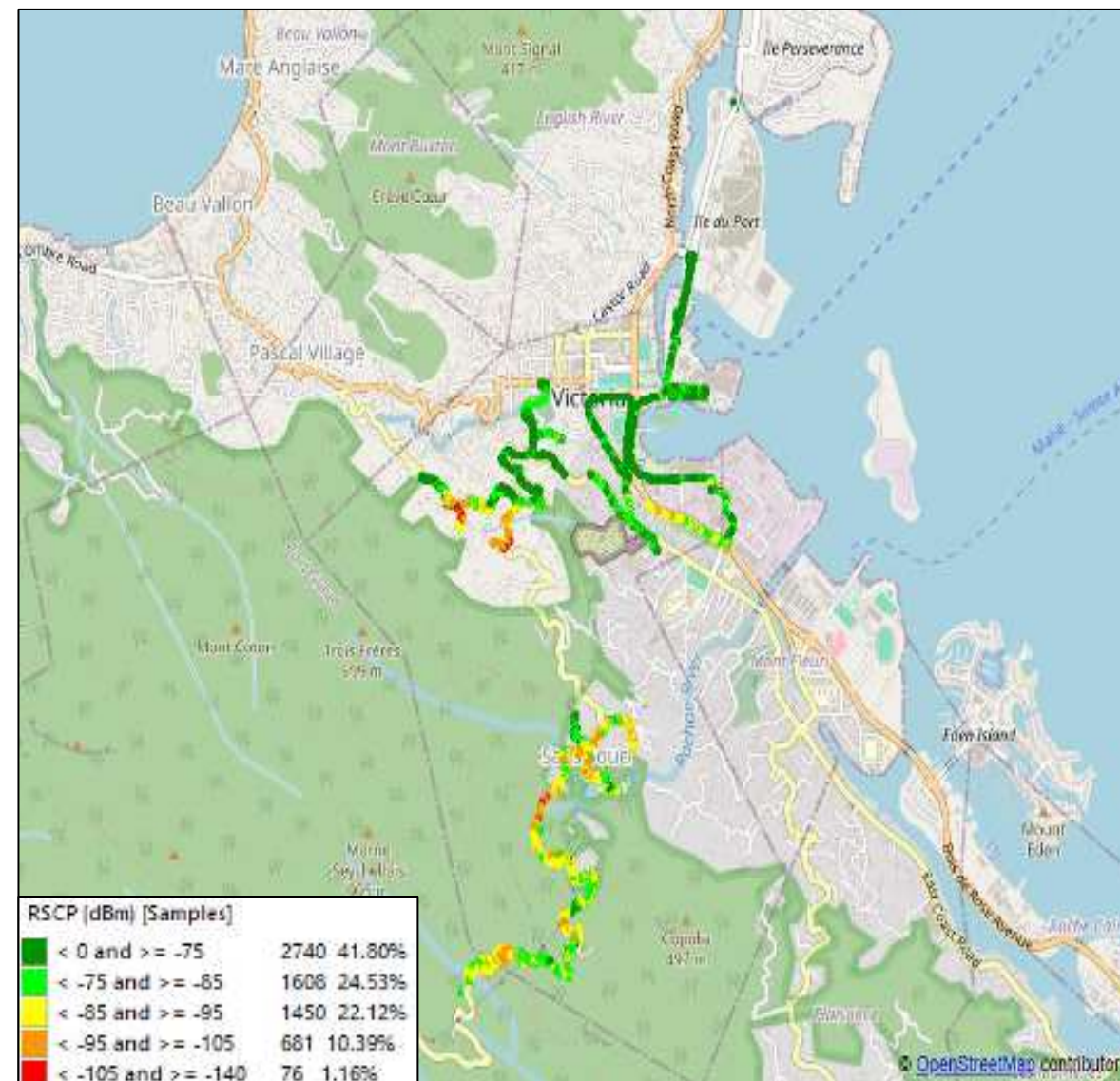
CWS Data 3G



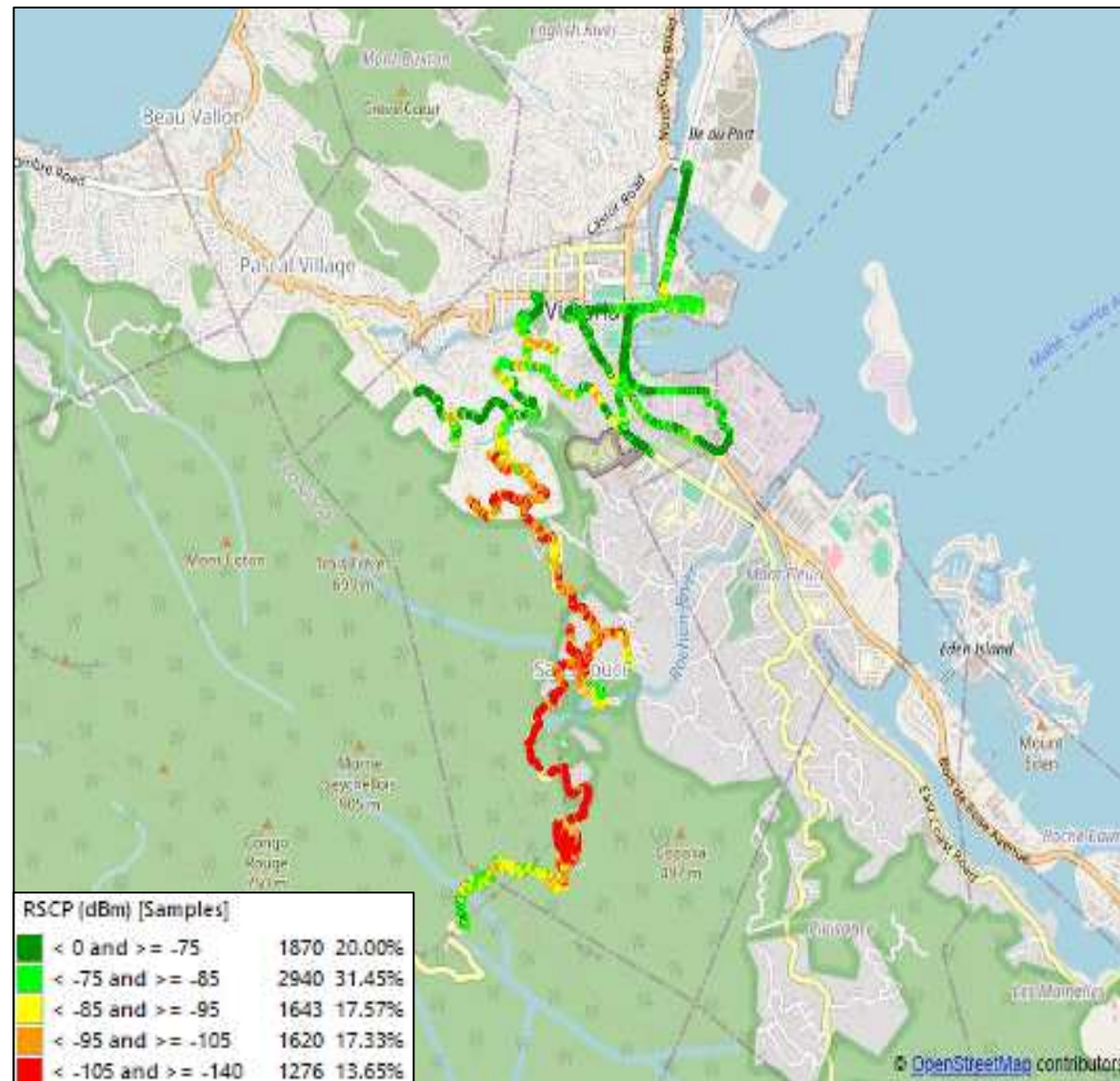
Airtel Data 3G



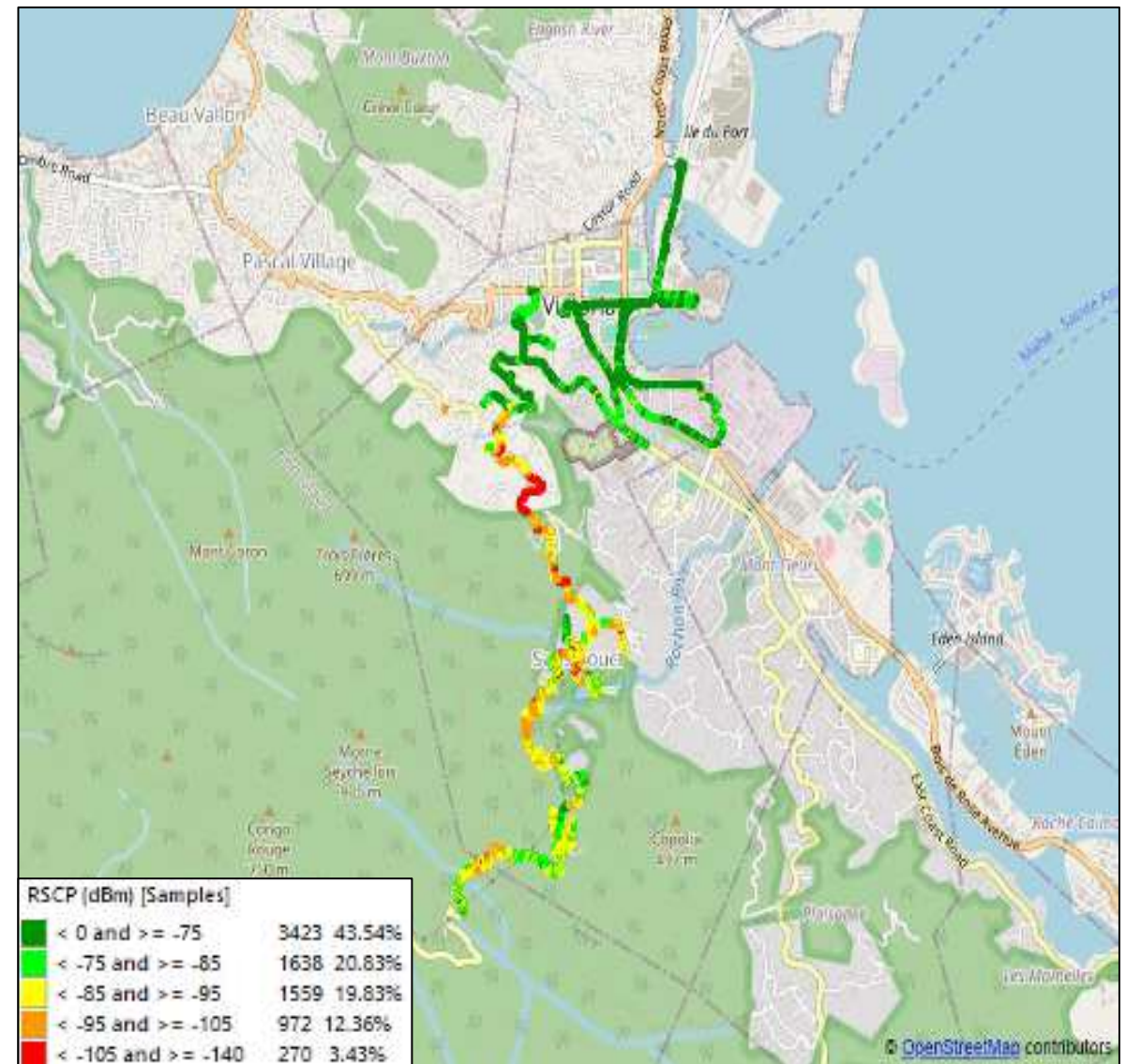
CWS Data 3G



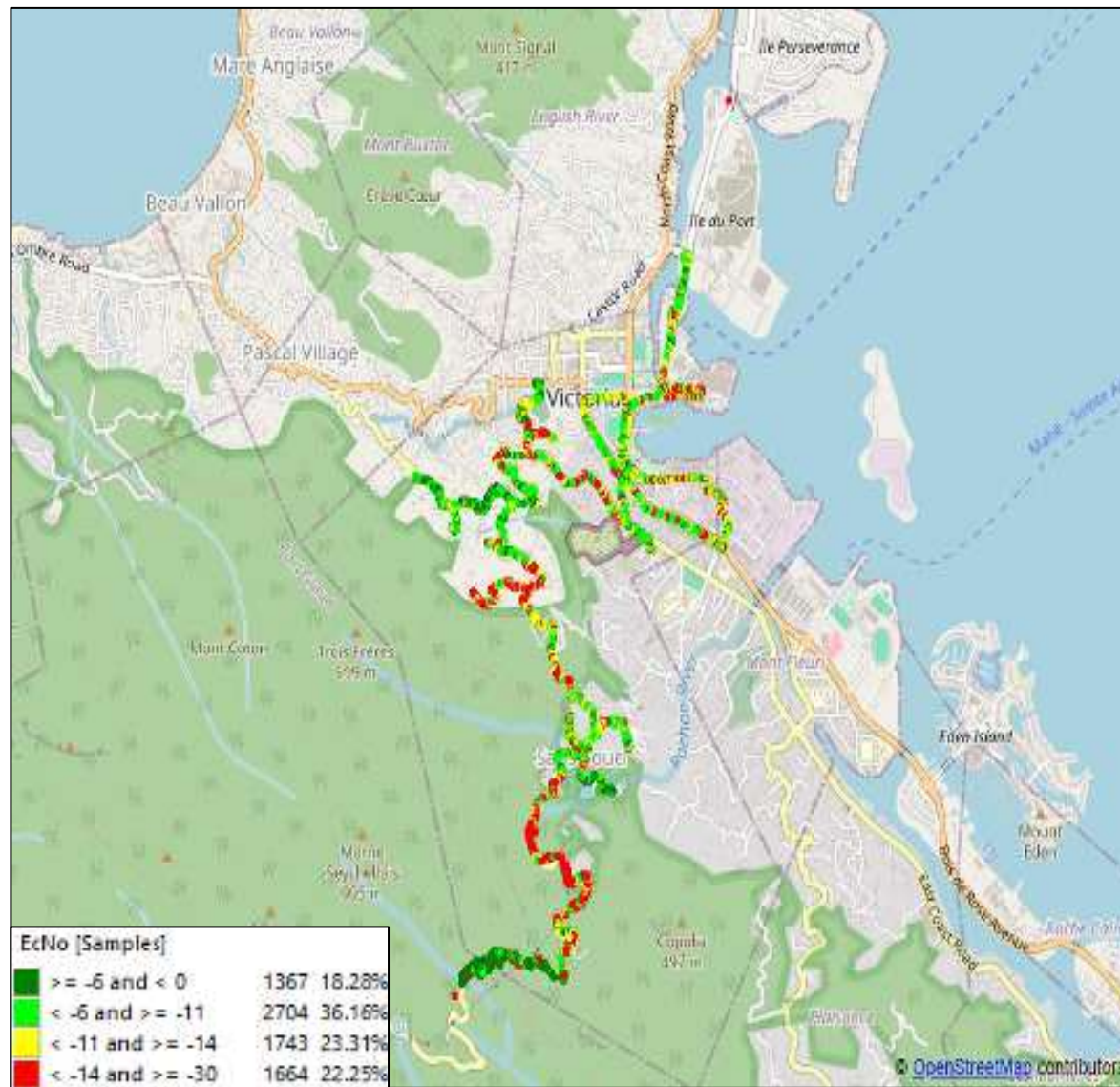
Airtel Data 3G



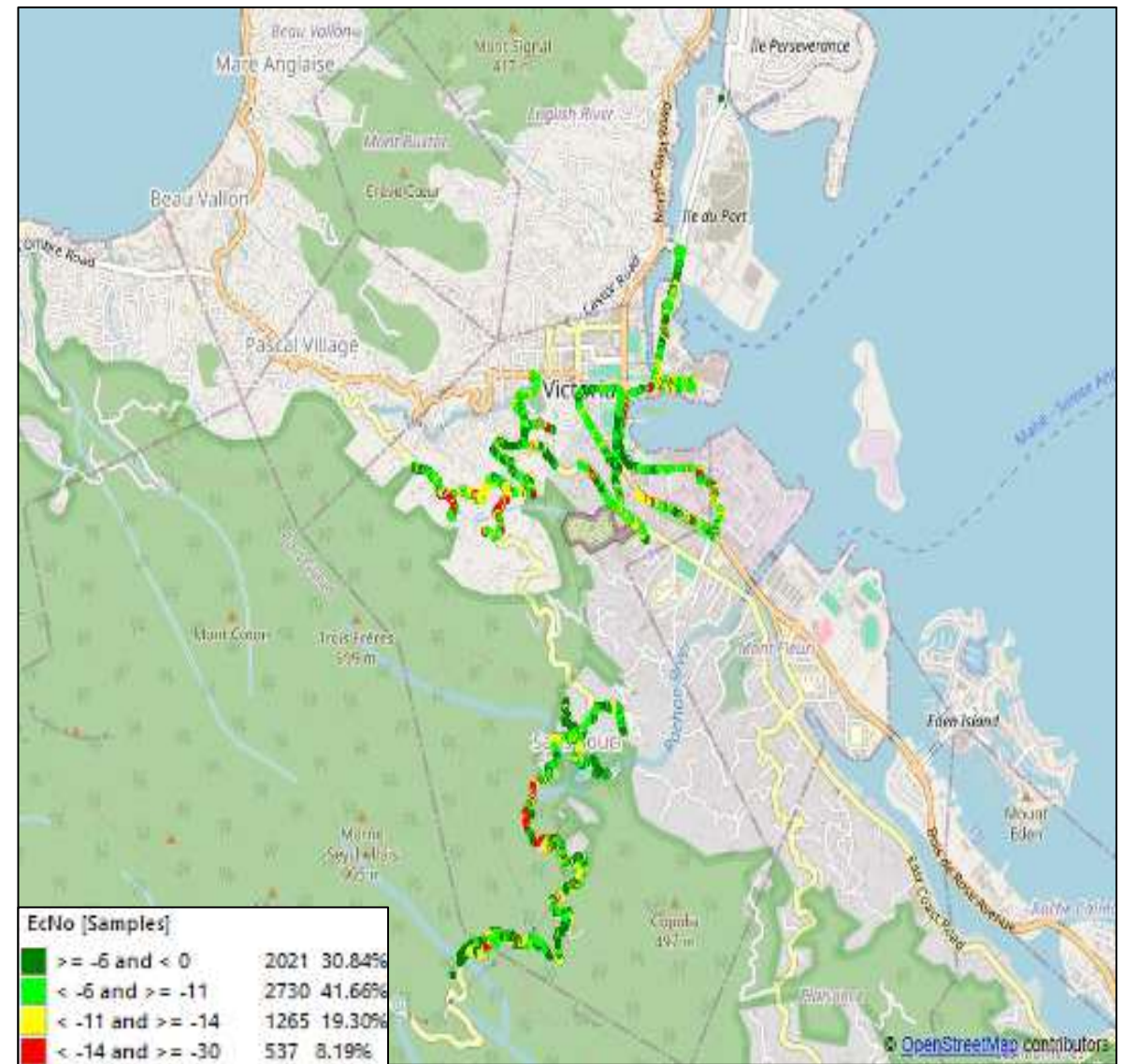
CWS Data 3G



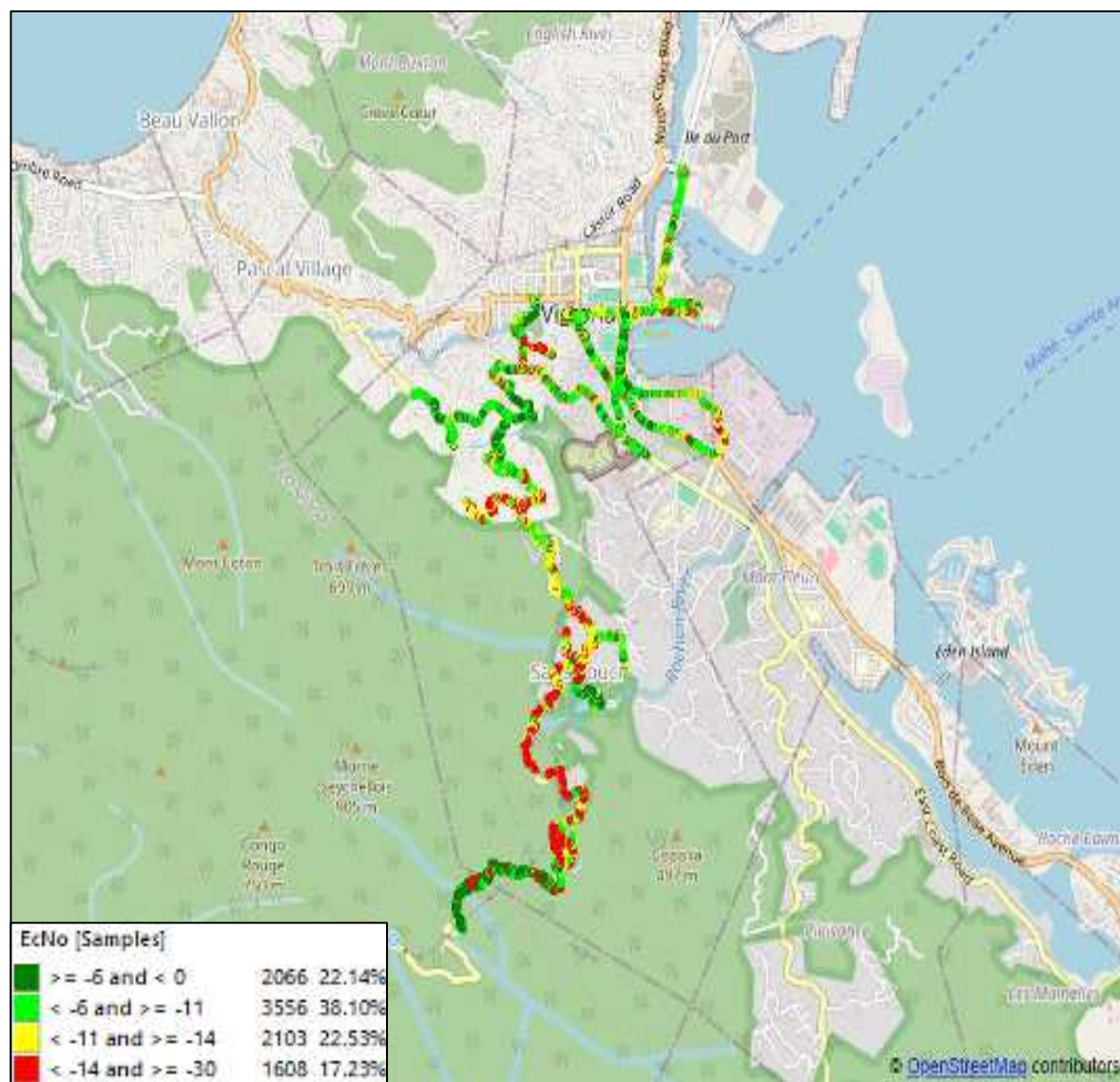
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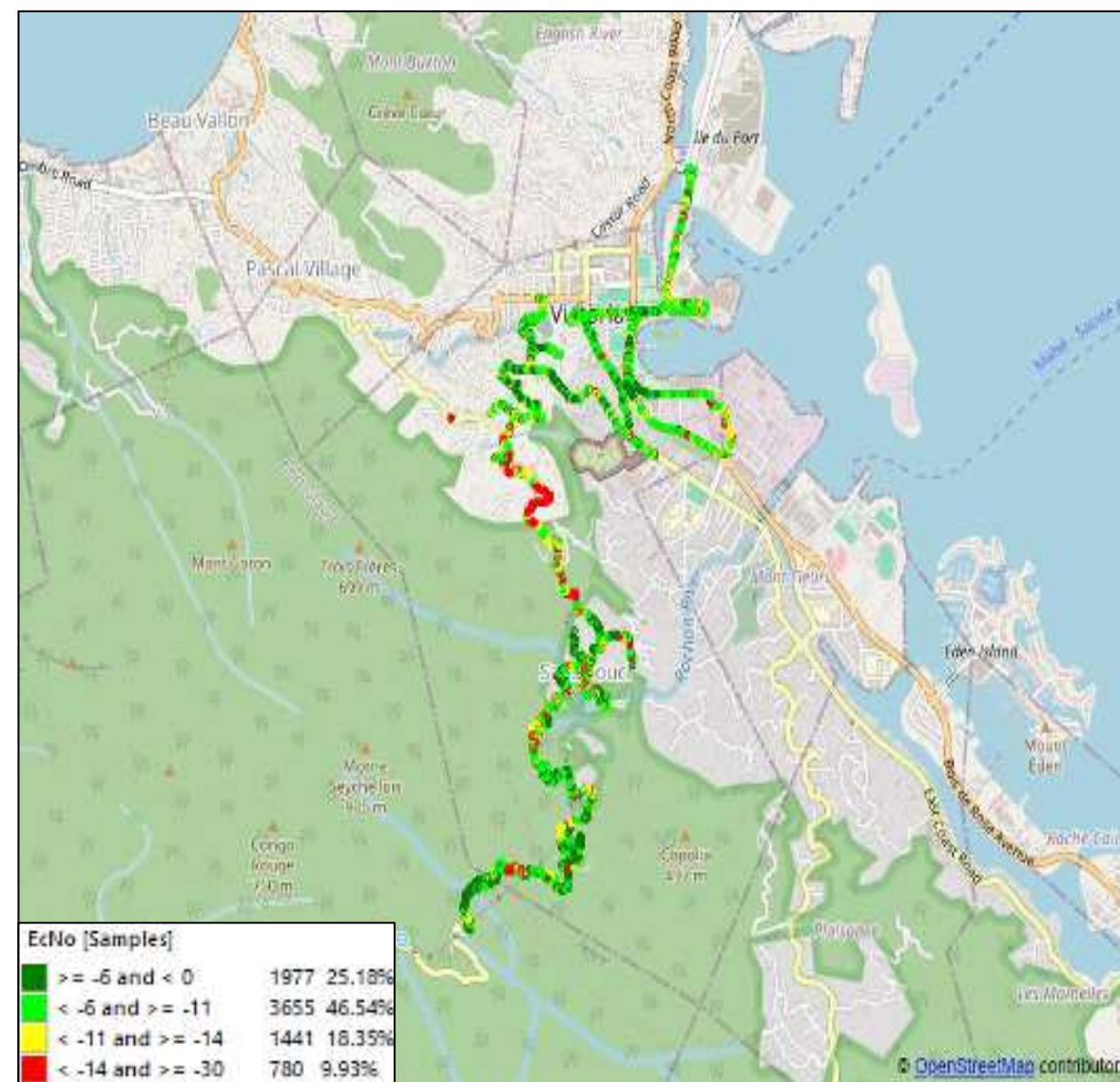
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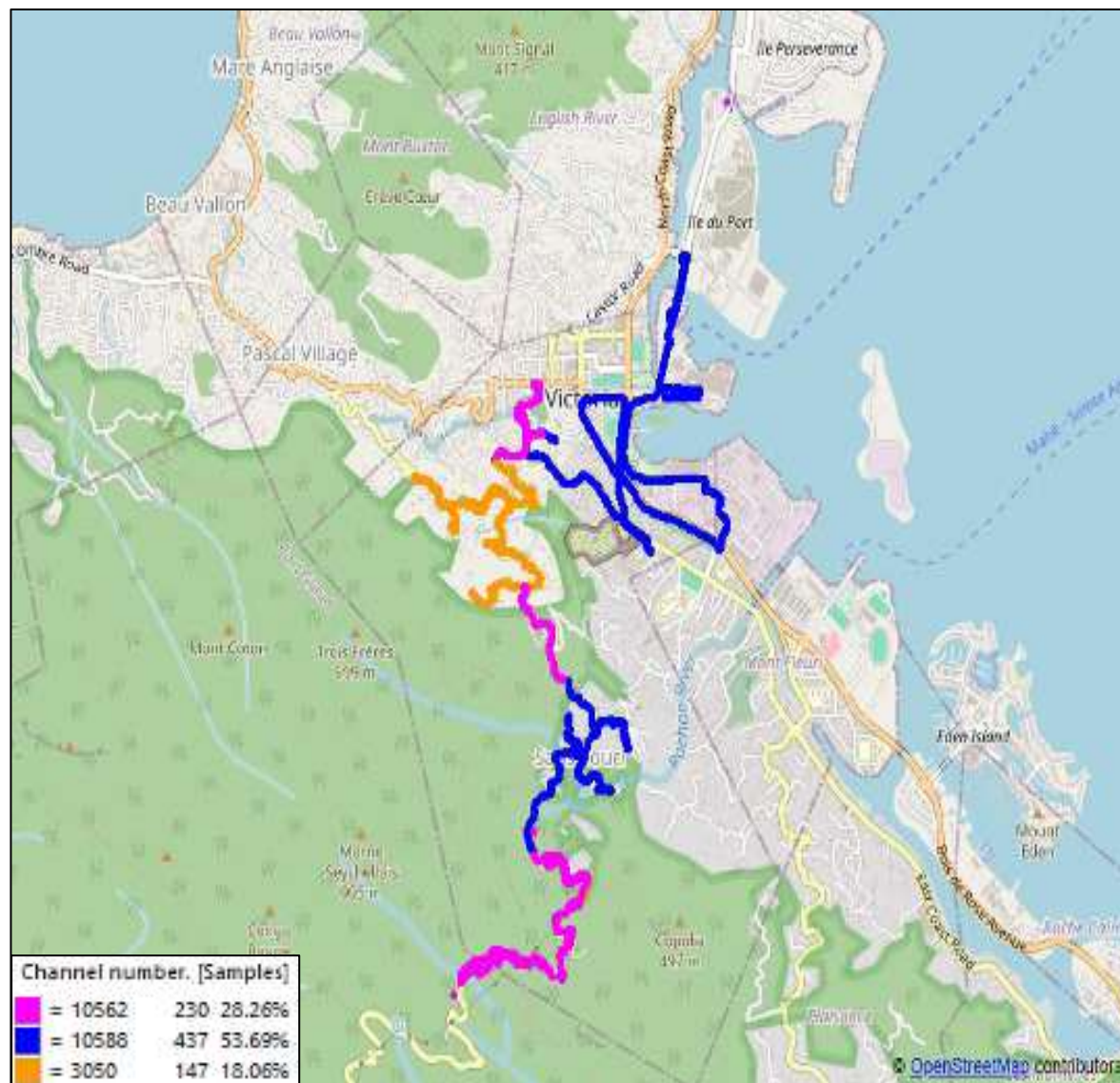
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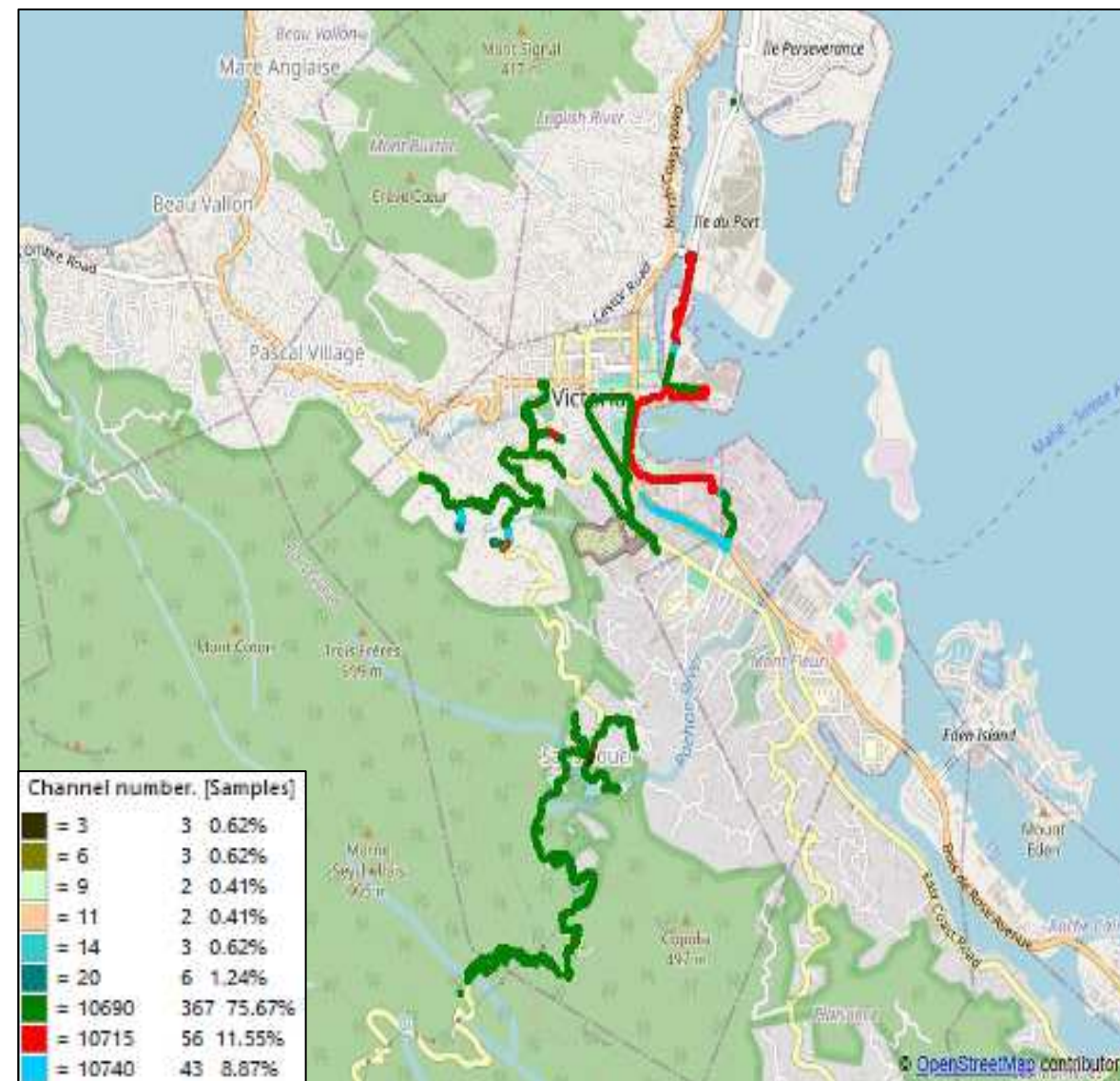
CWS Data 3G



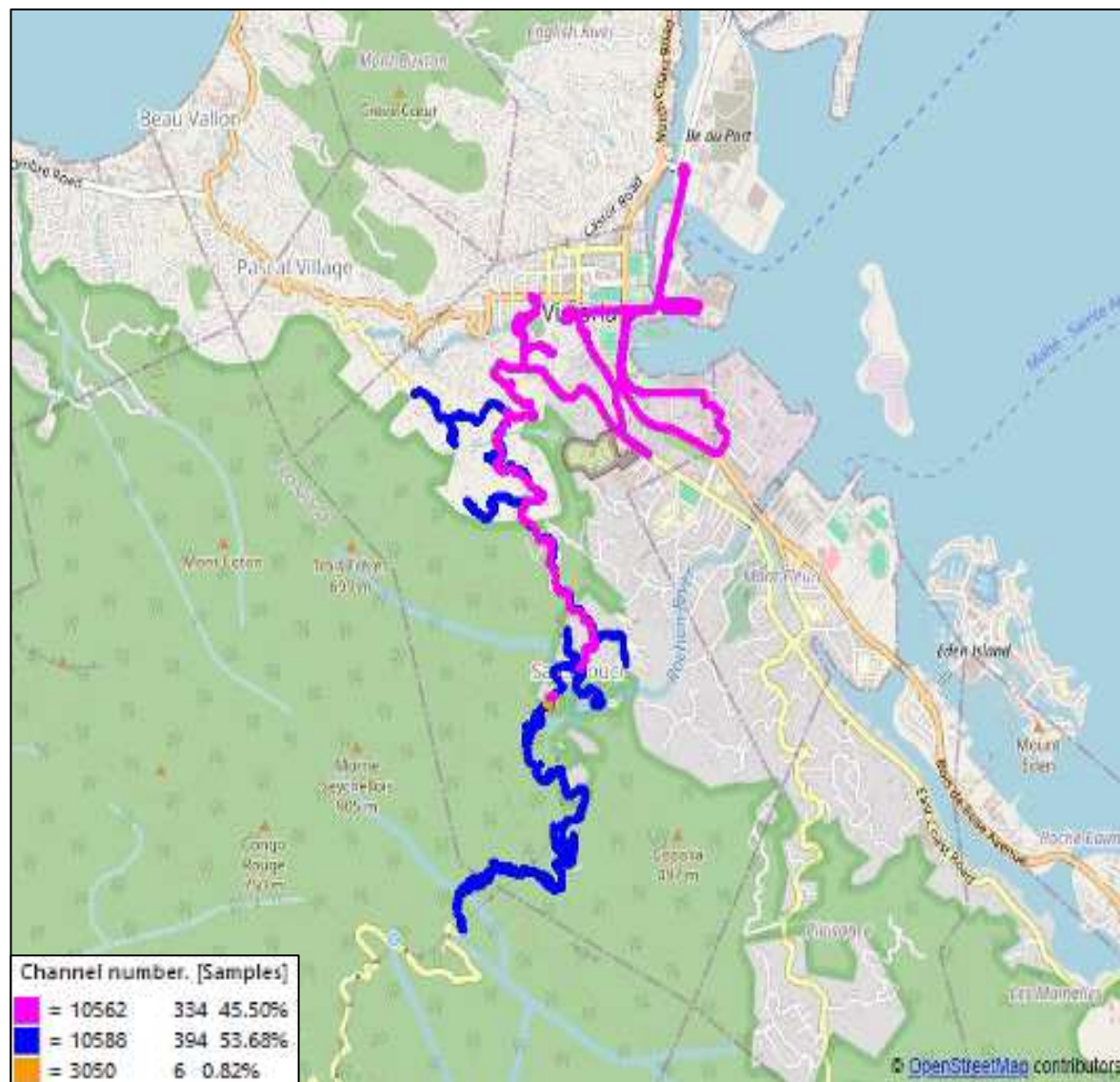
Airtel Data 3G



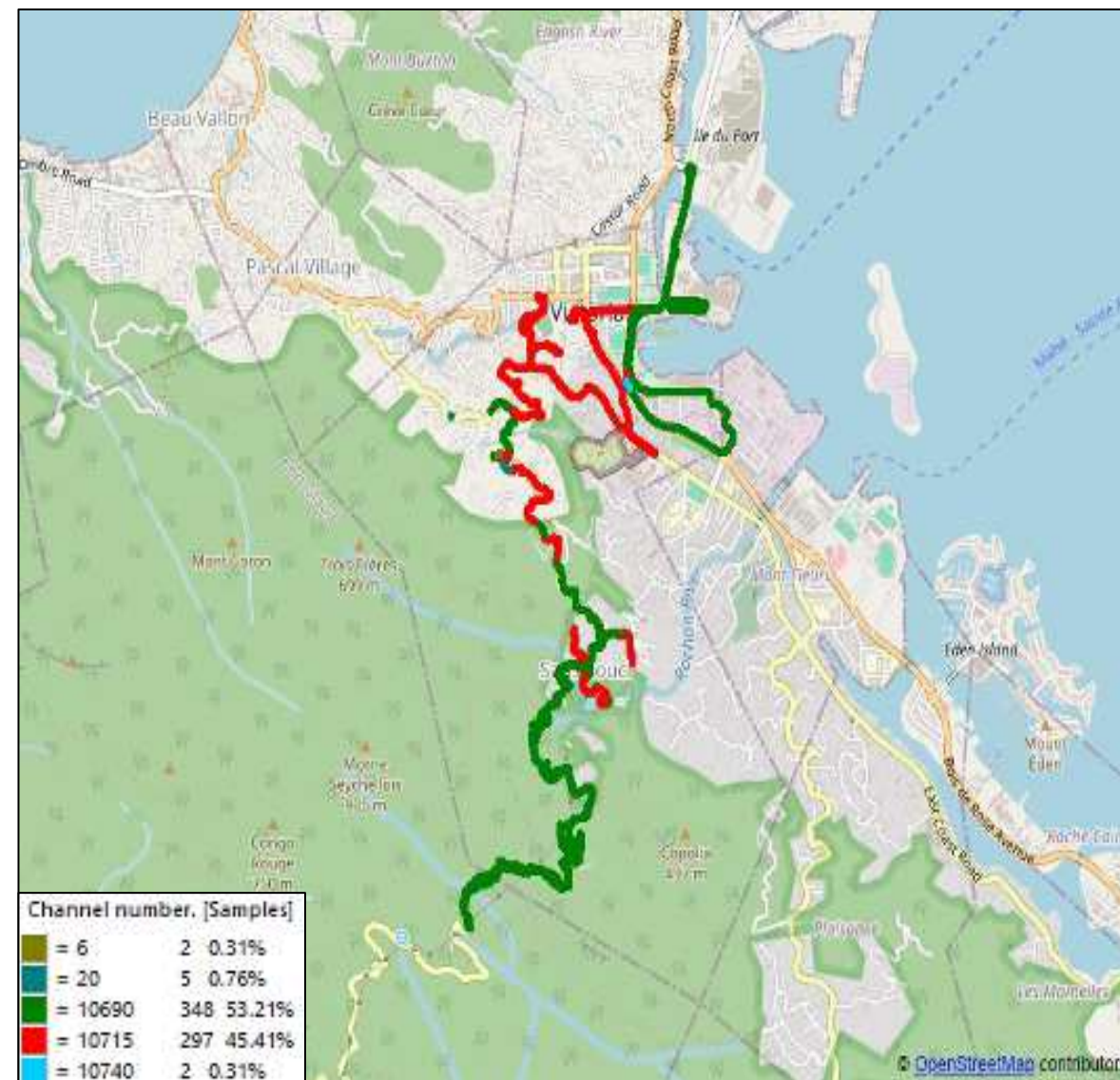
CWS Data 3G



Airtel Data 3G

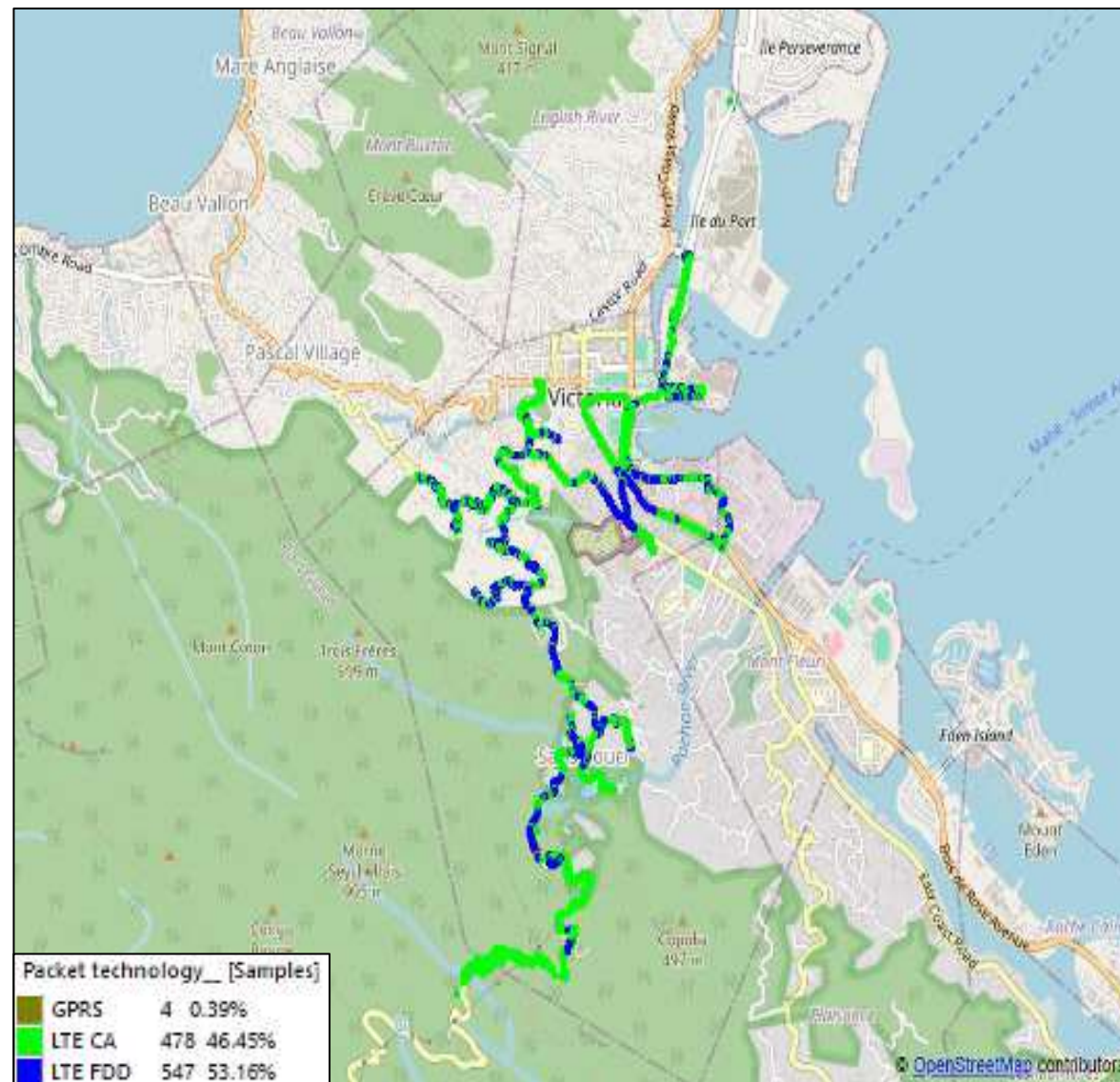


CWS Data 3G

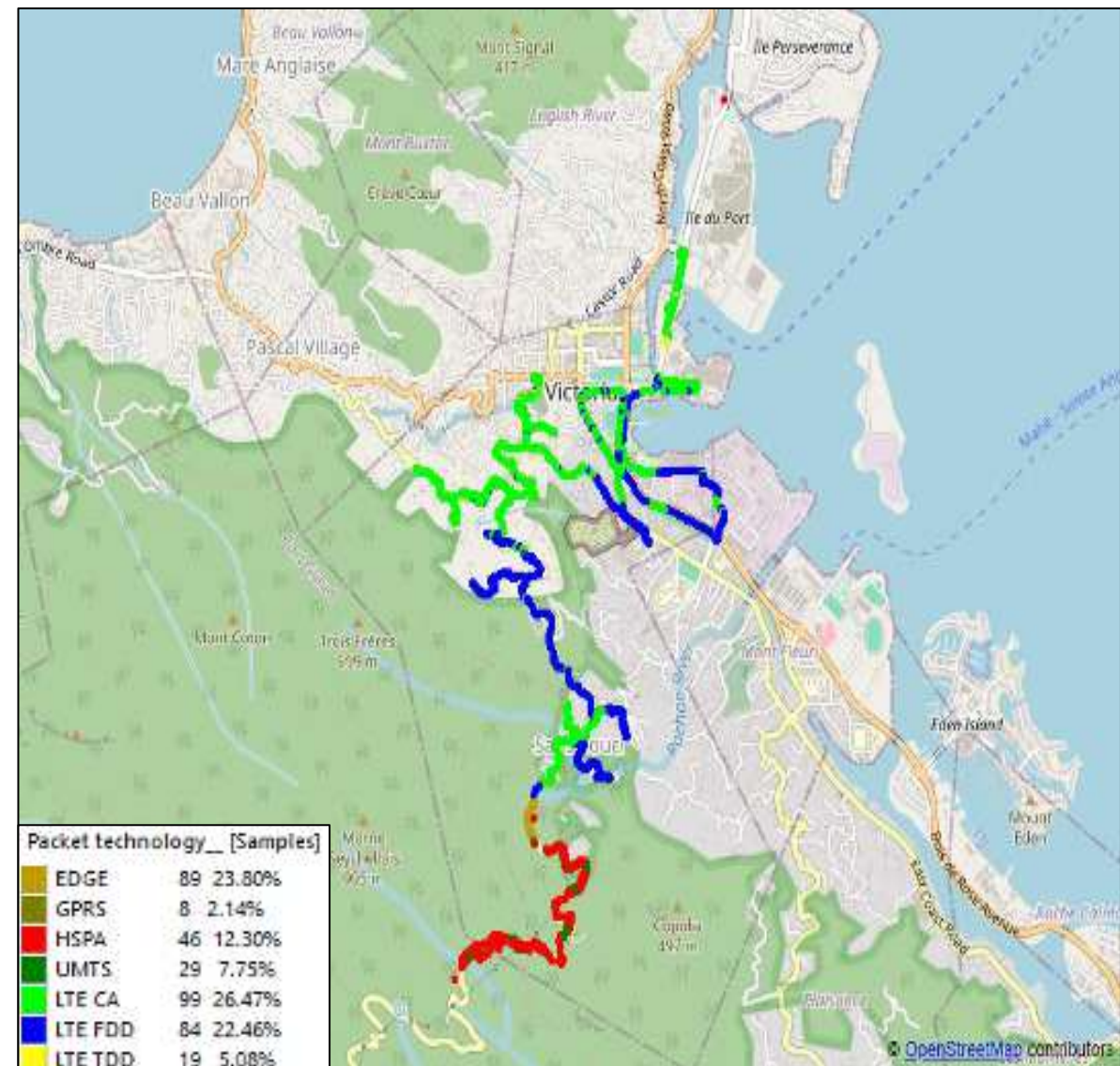


4G PREFERRED DATA DRIVE PLOTS

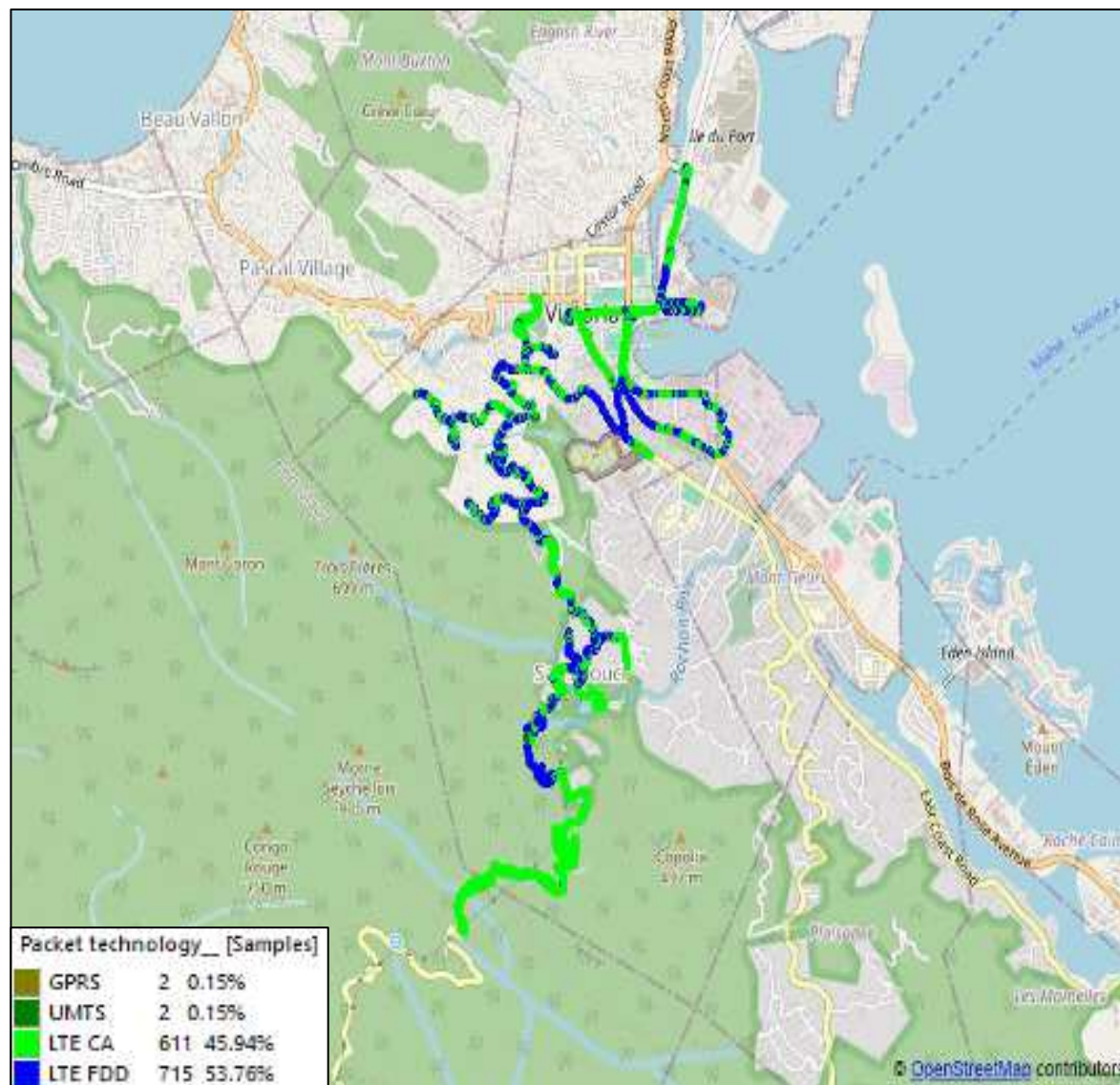
Airtel Data 4G



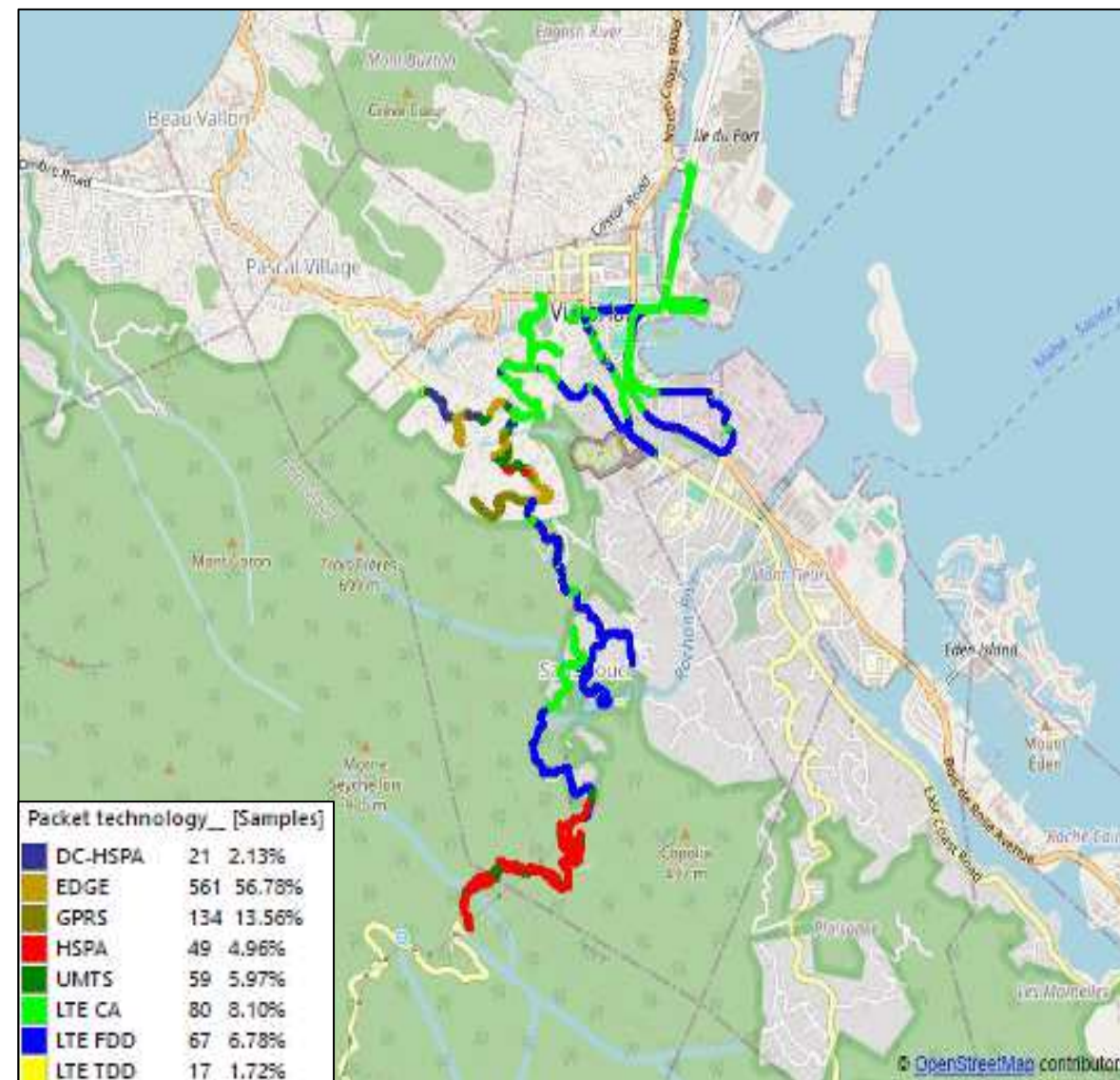
CWS Data 4G



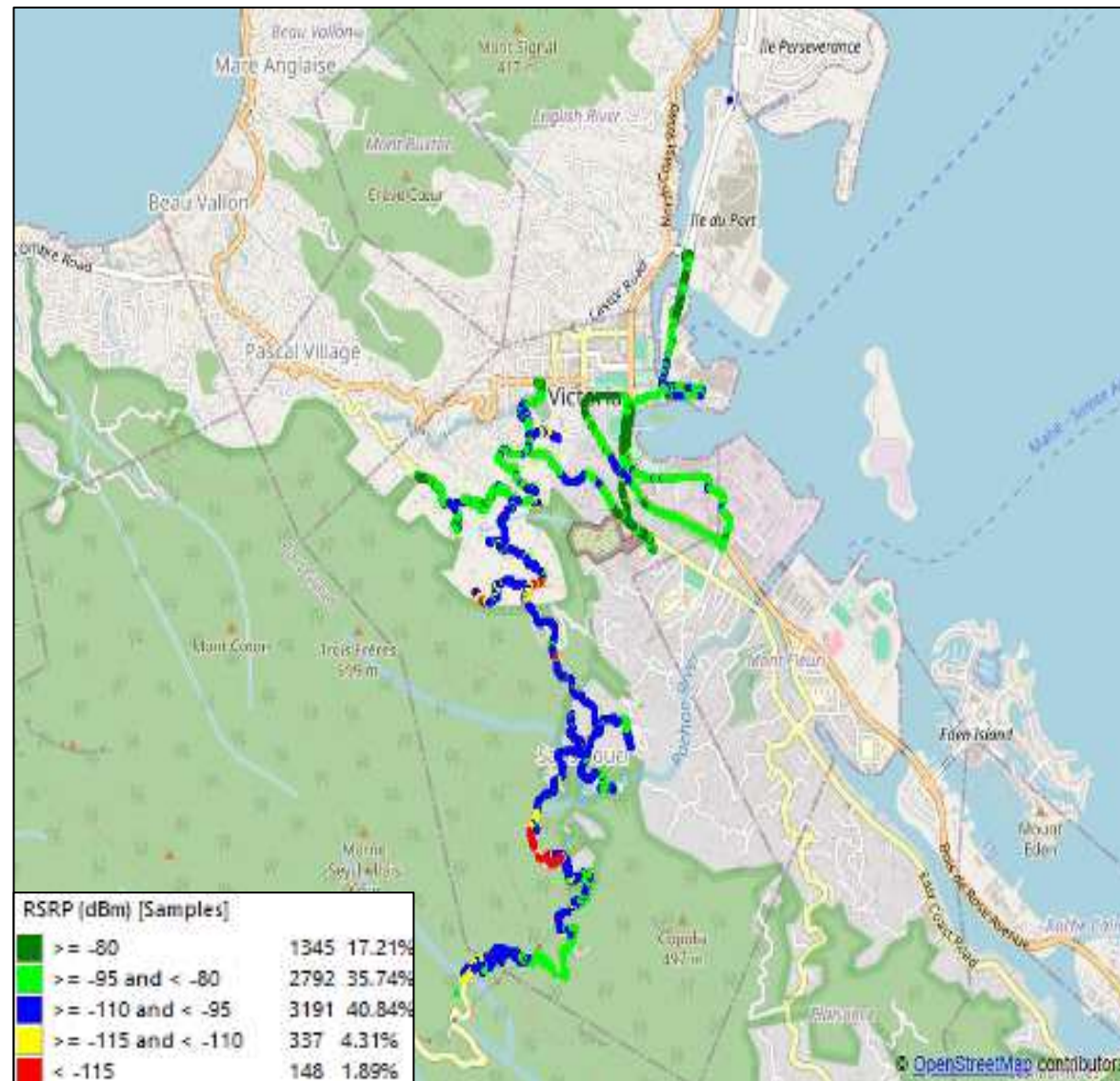
Airtel Data 4G



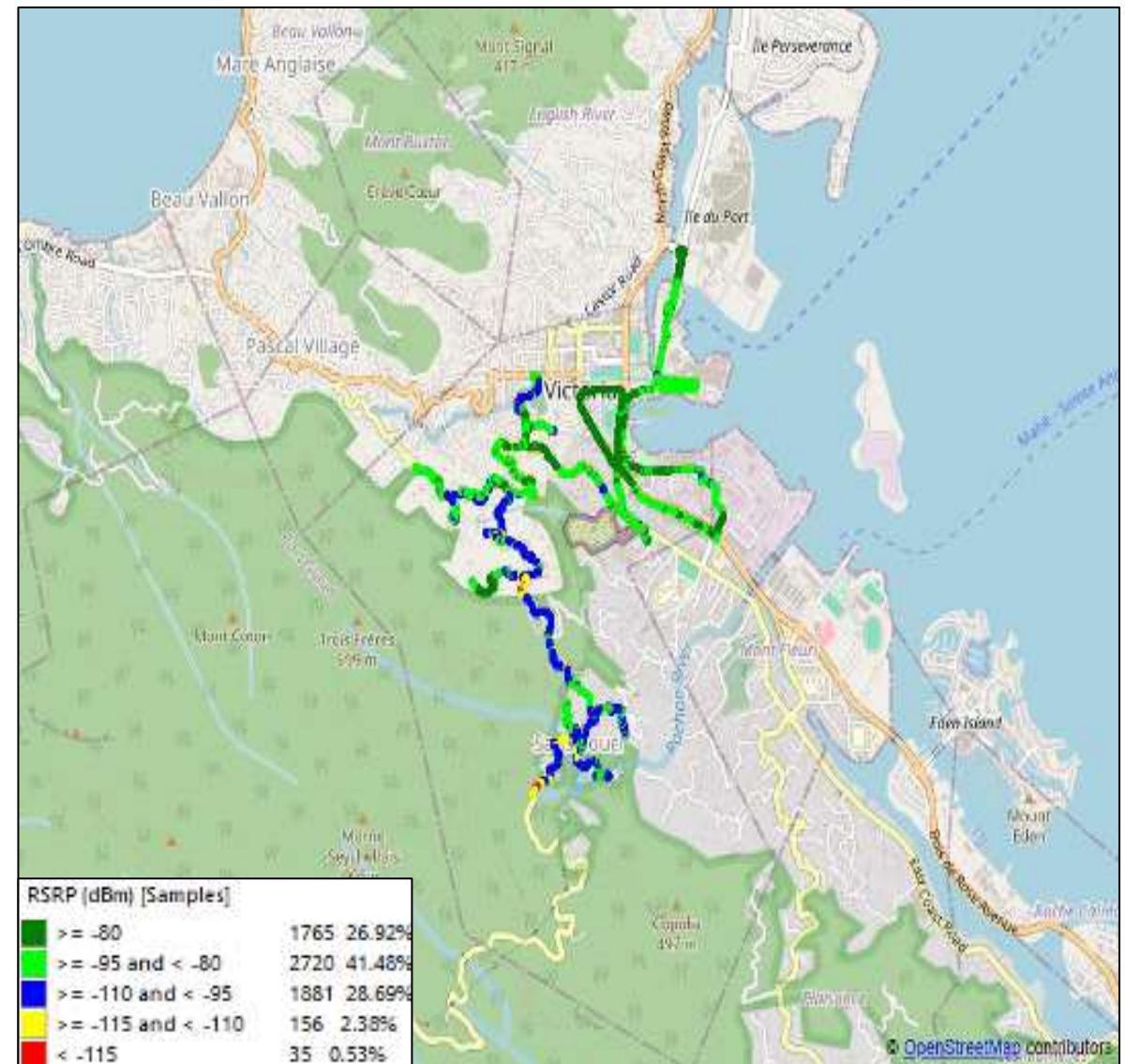
CWS Data 4G



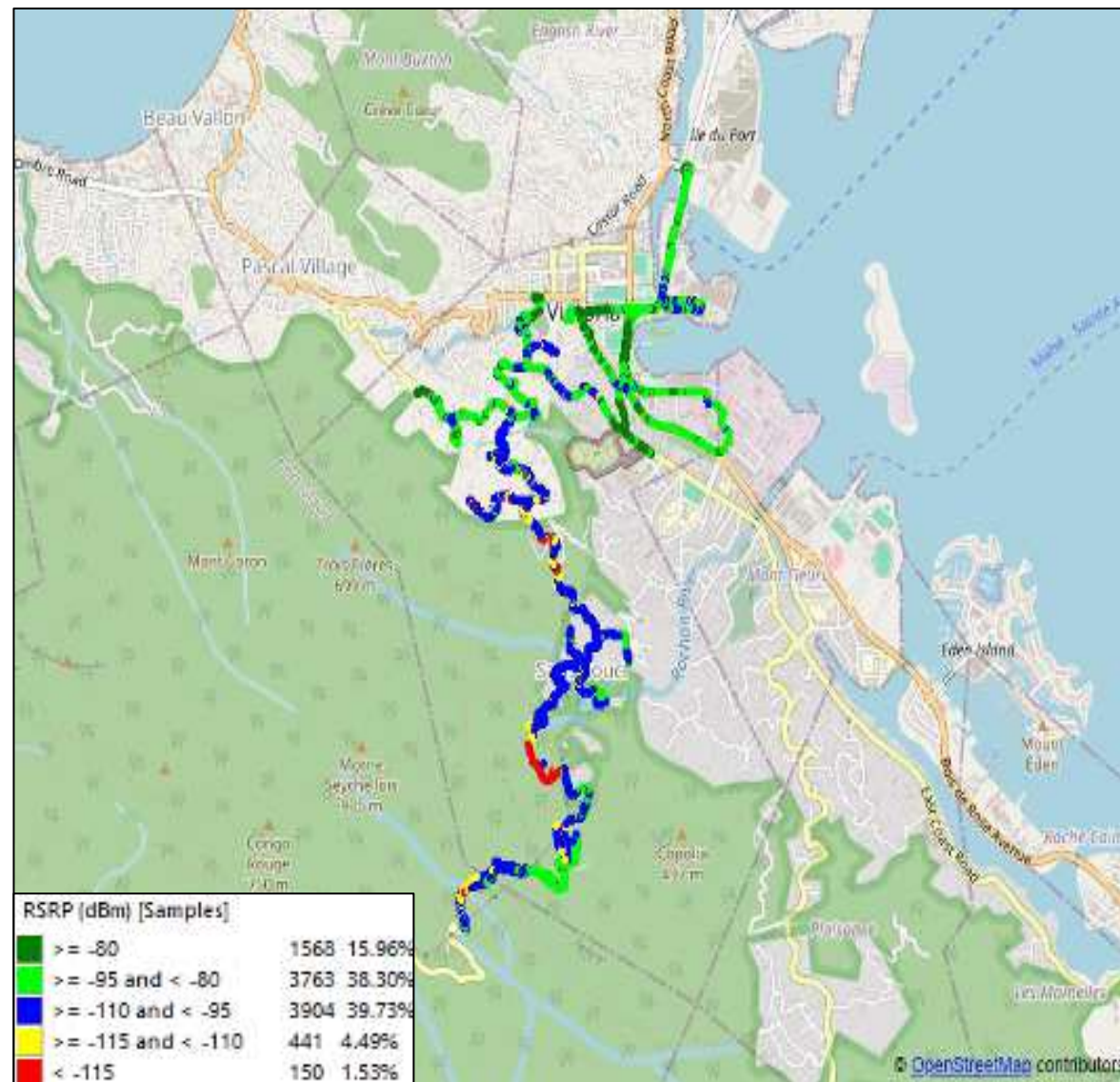
Airtel Data 4G



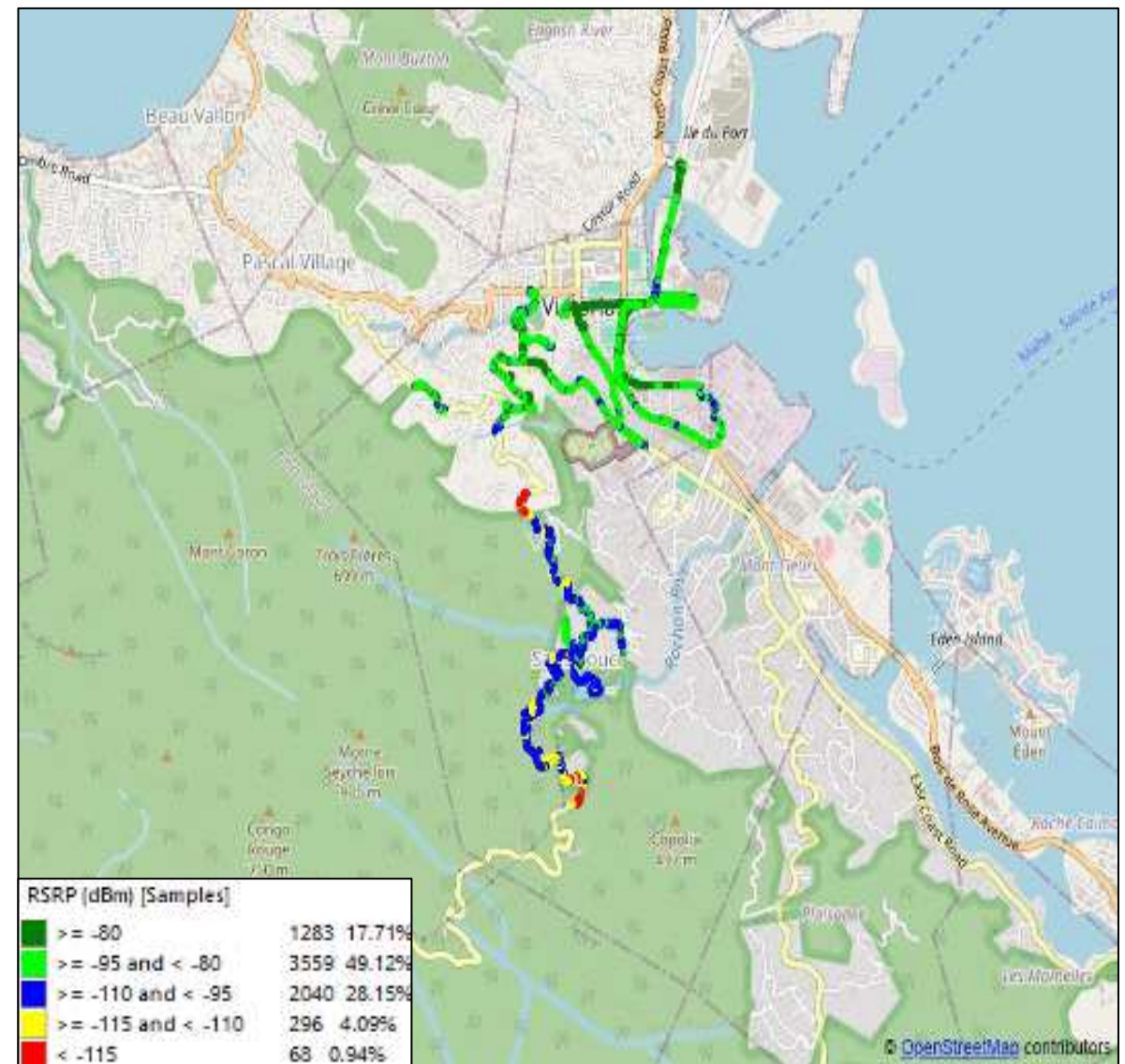
CWS Data 4G



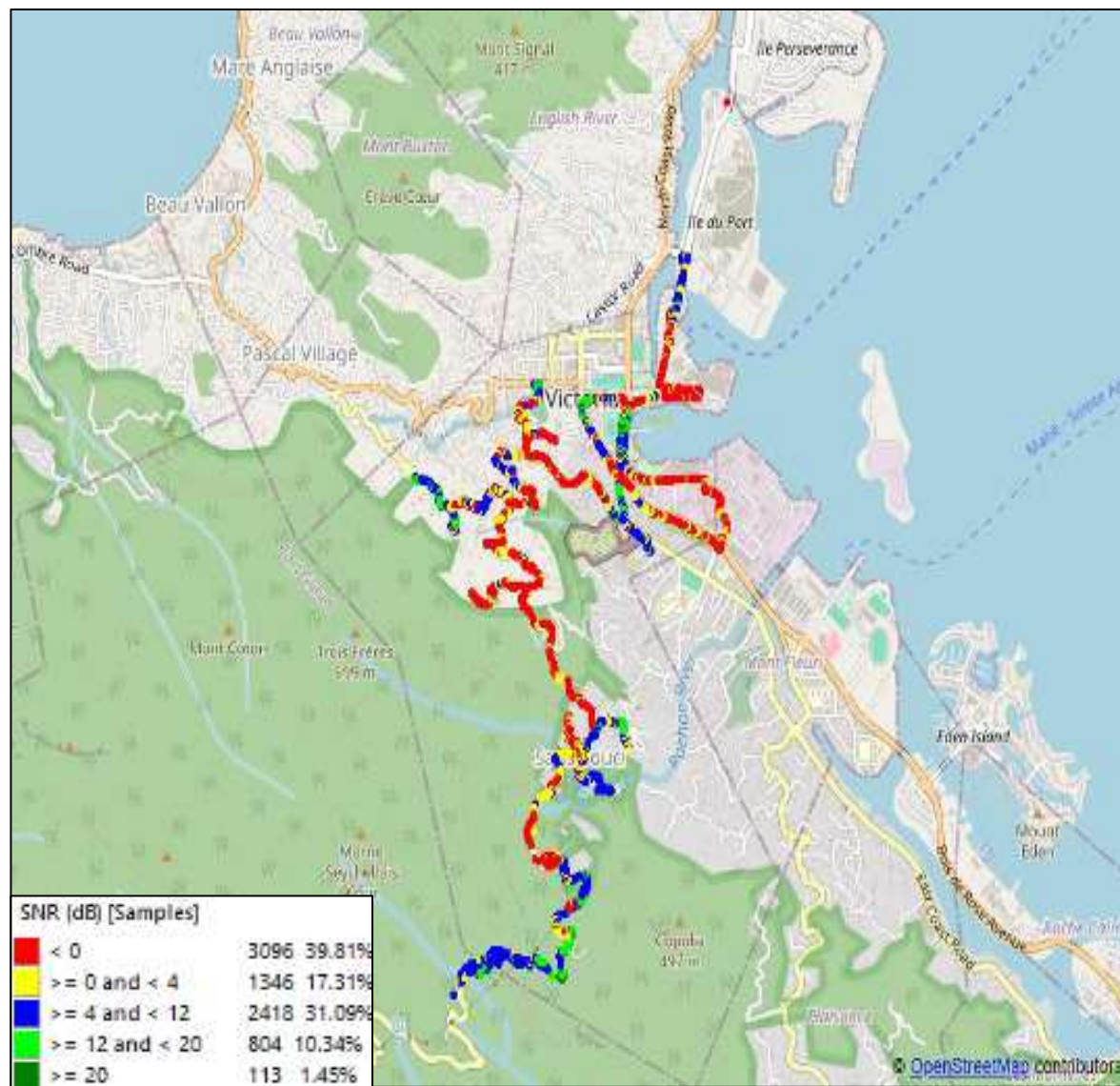
Airtel Data 4G



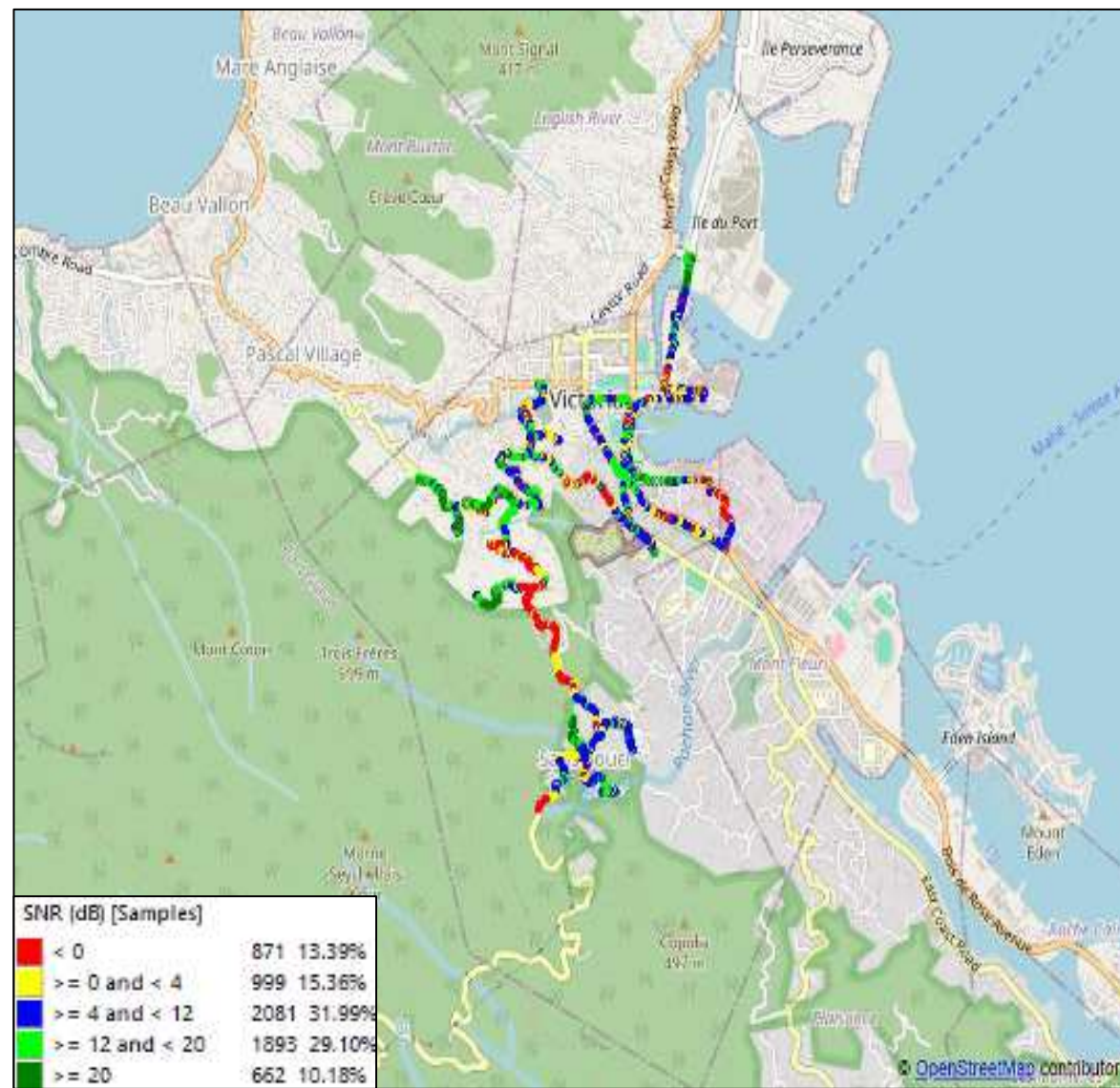
CWS Data 4G



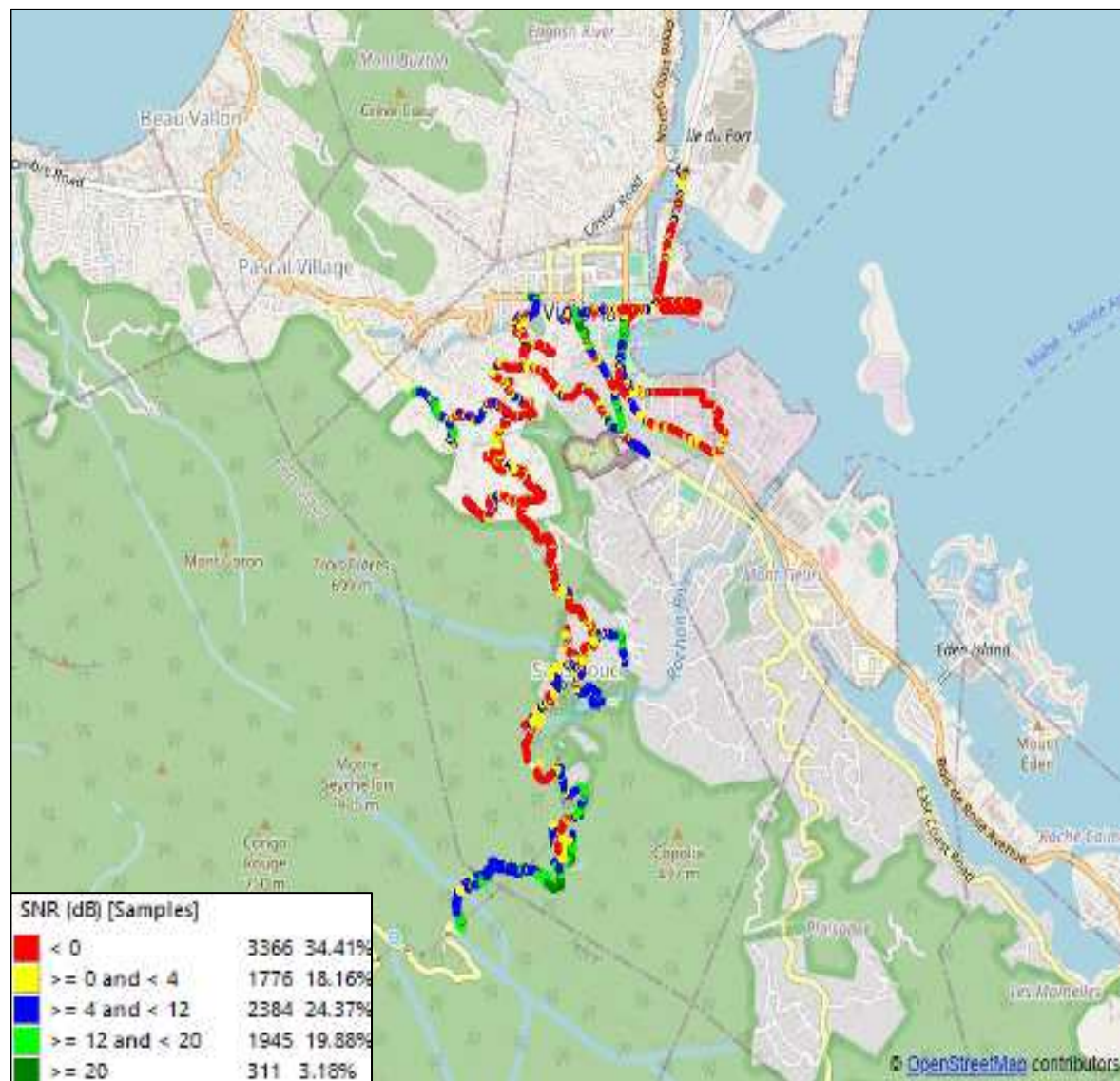
Airtel Data 4G



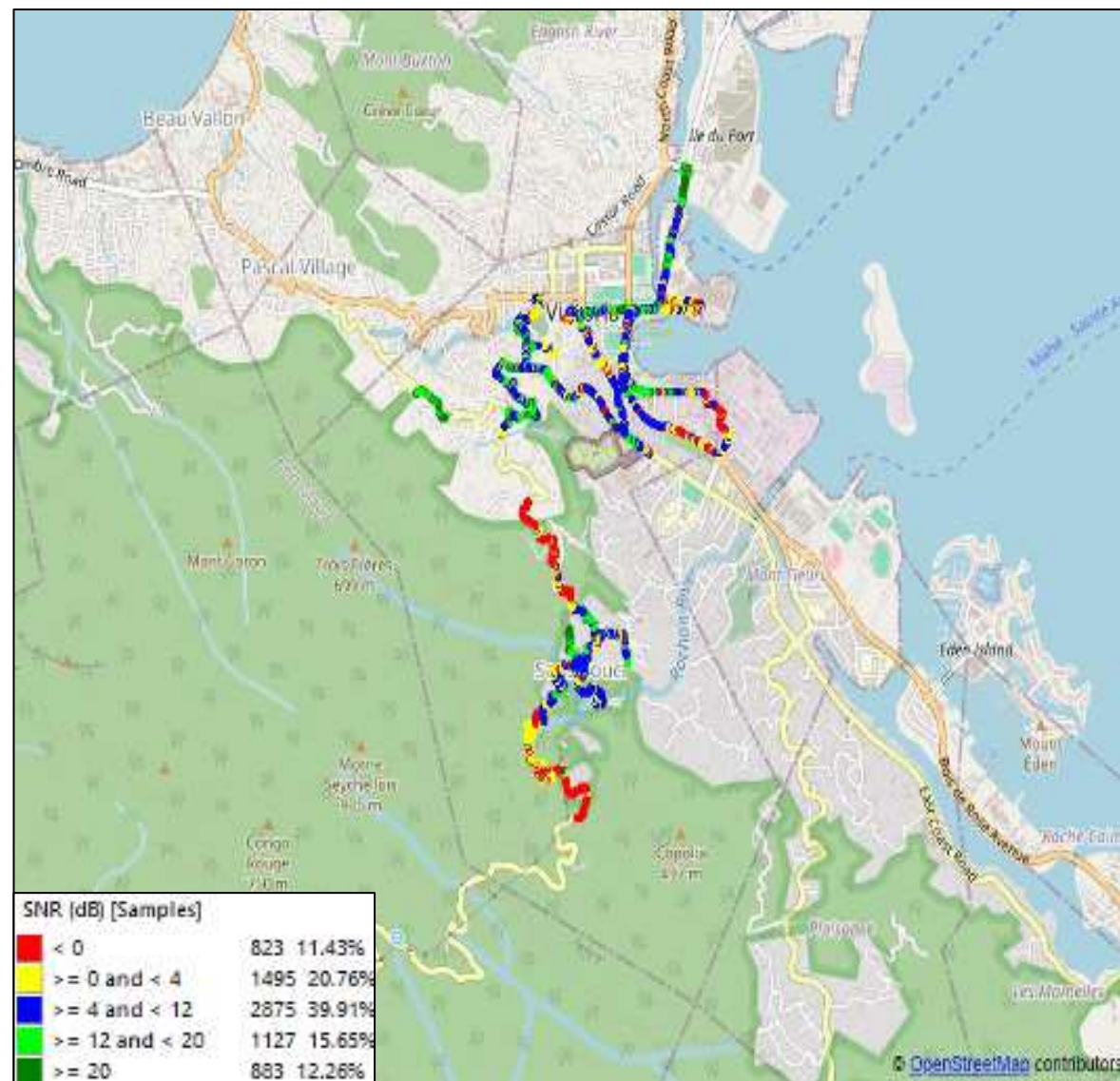
CWS Data 4G



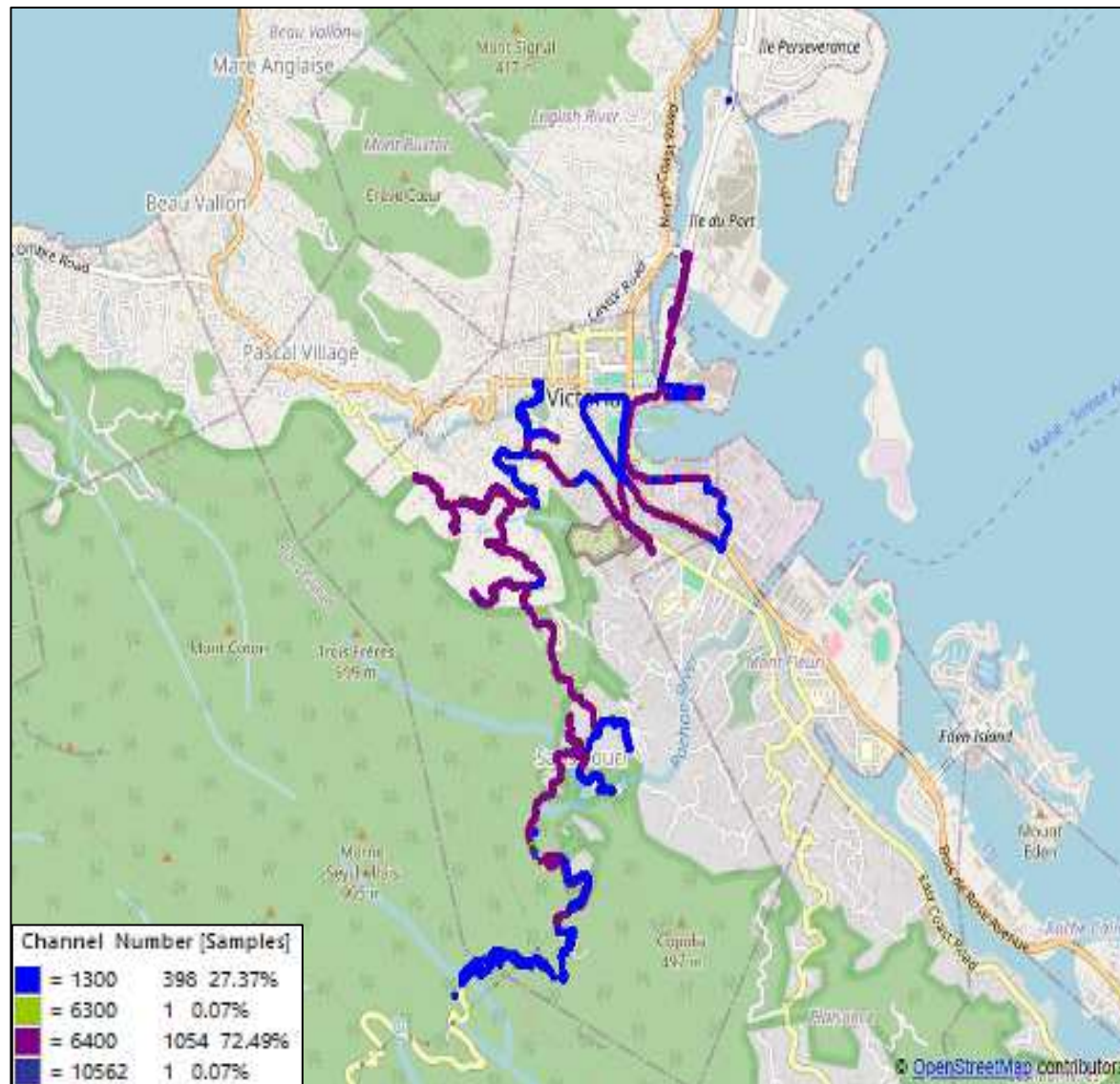
Airtel Data 4G



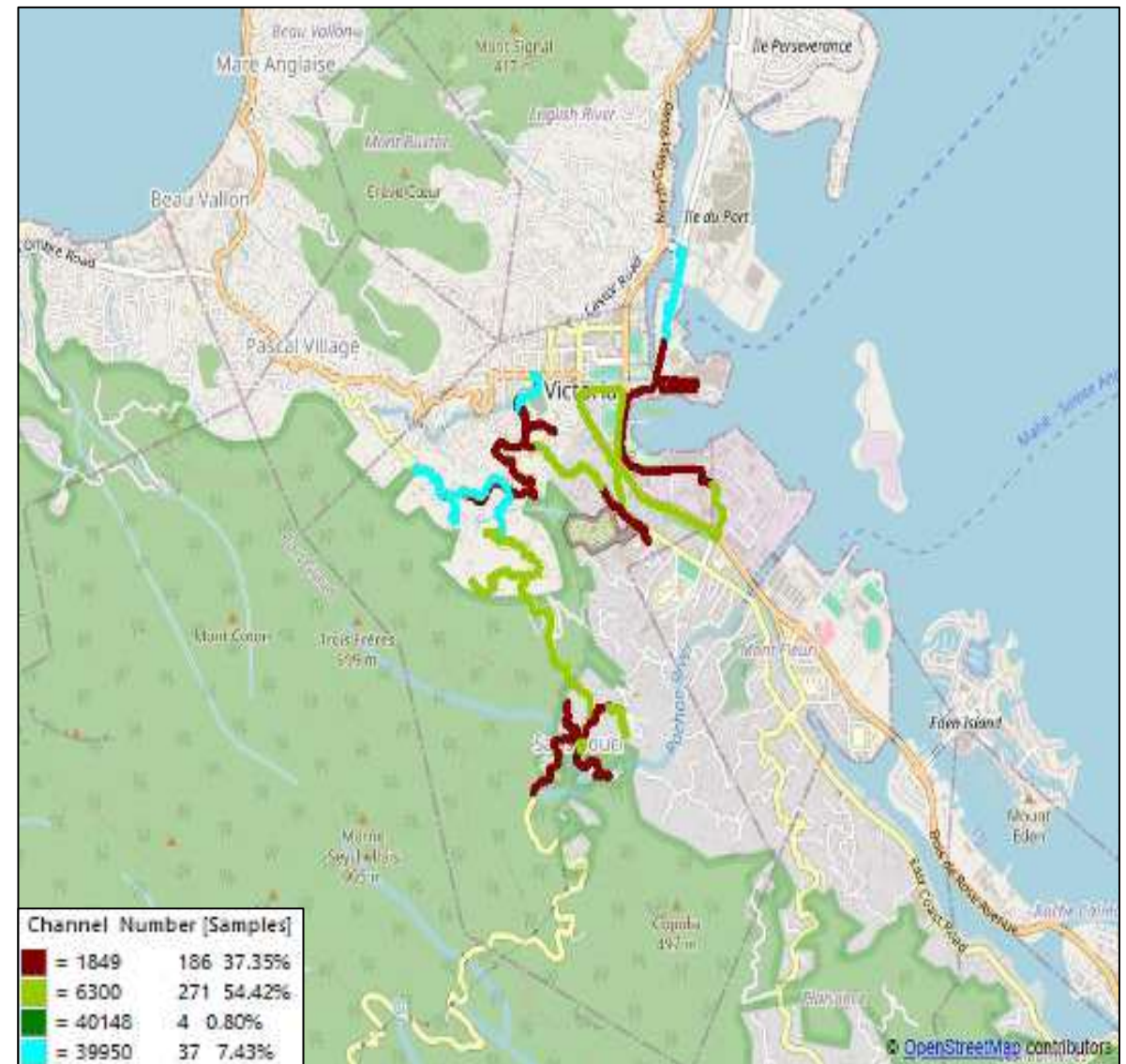
CWS Data 4G



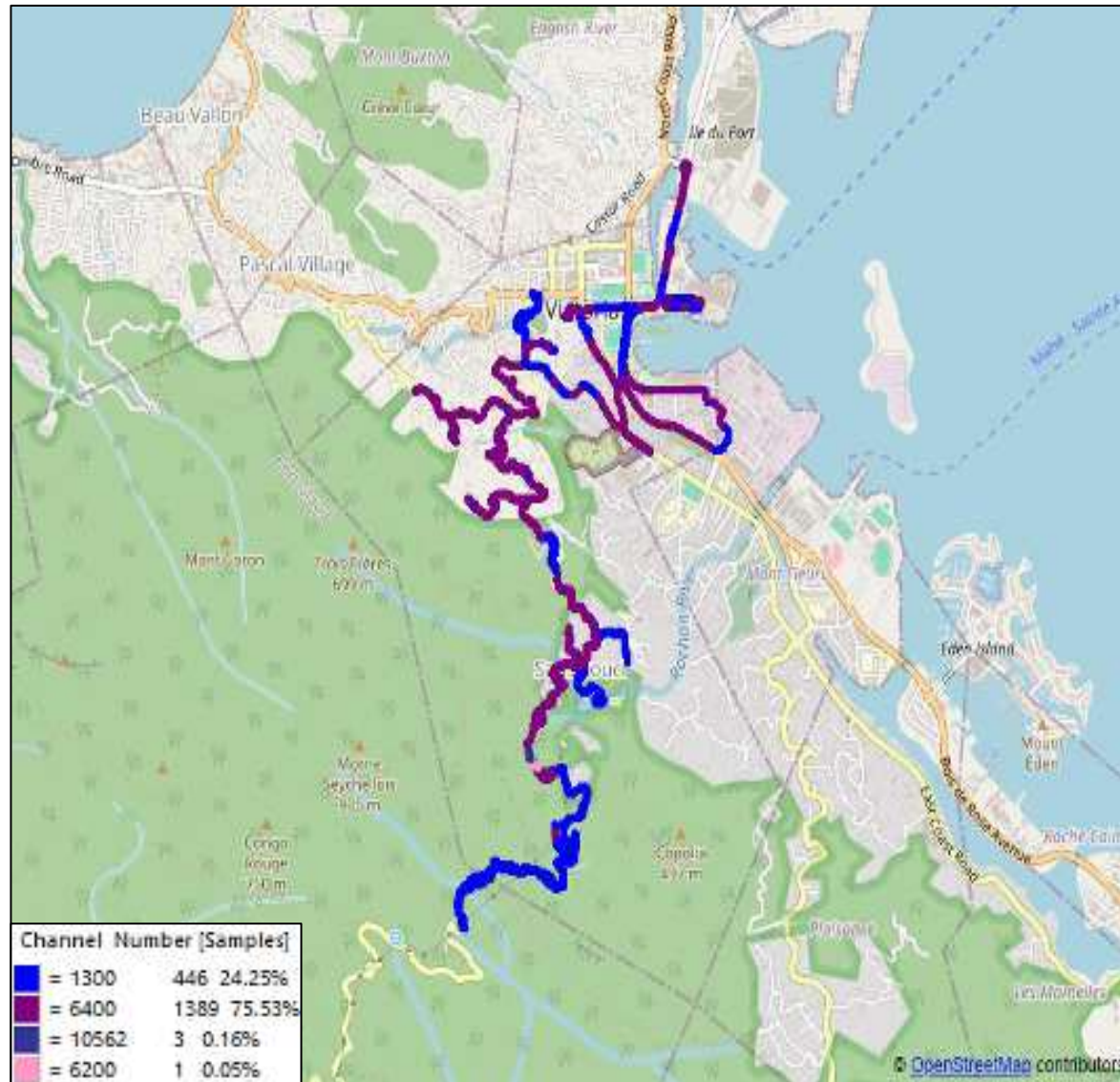
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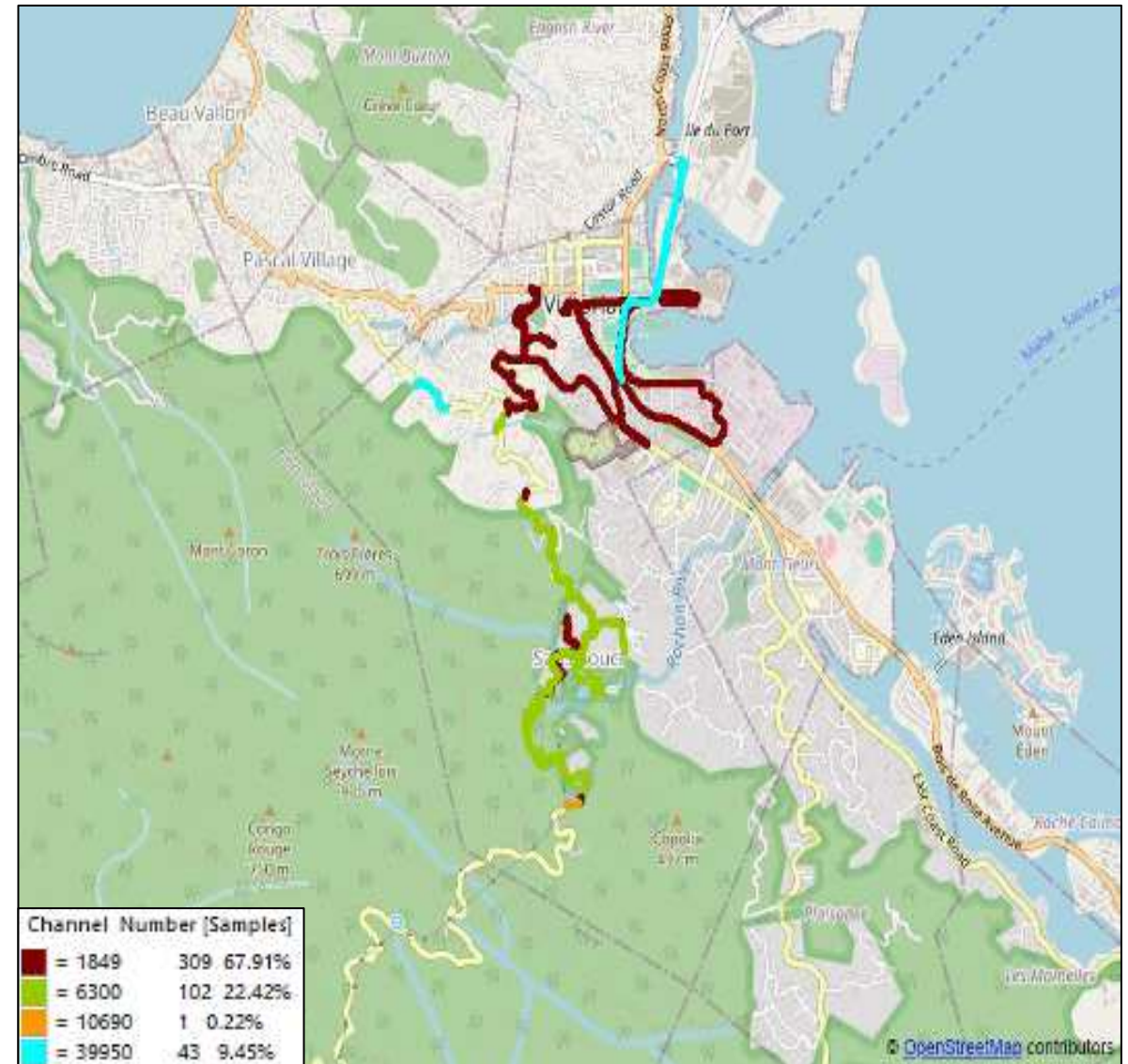
CWS Data 4G



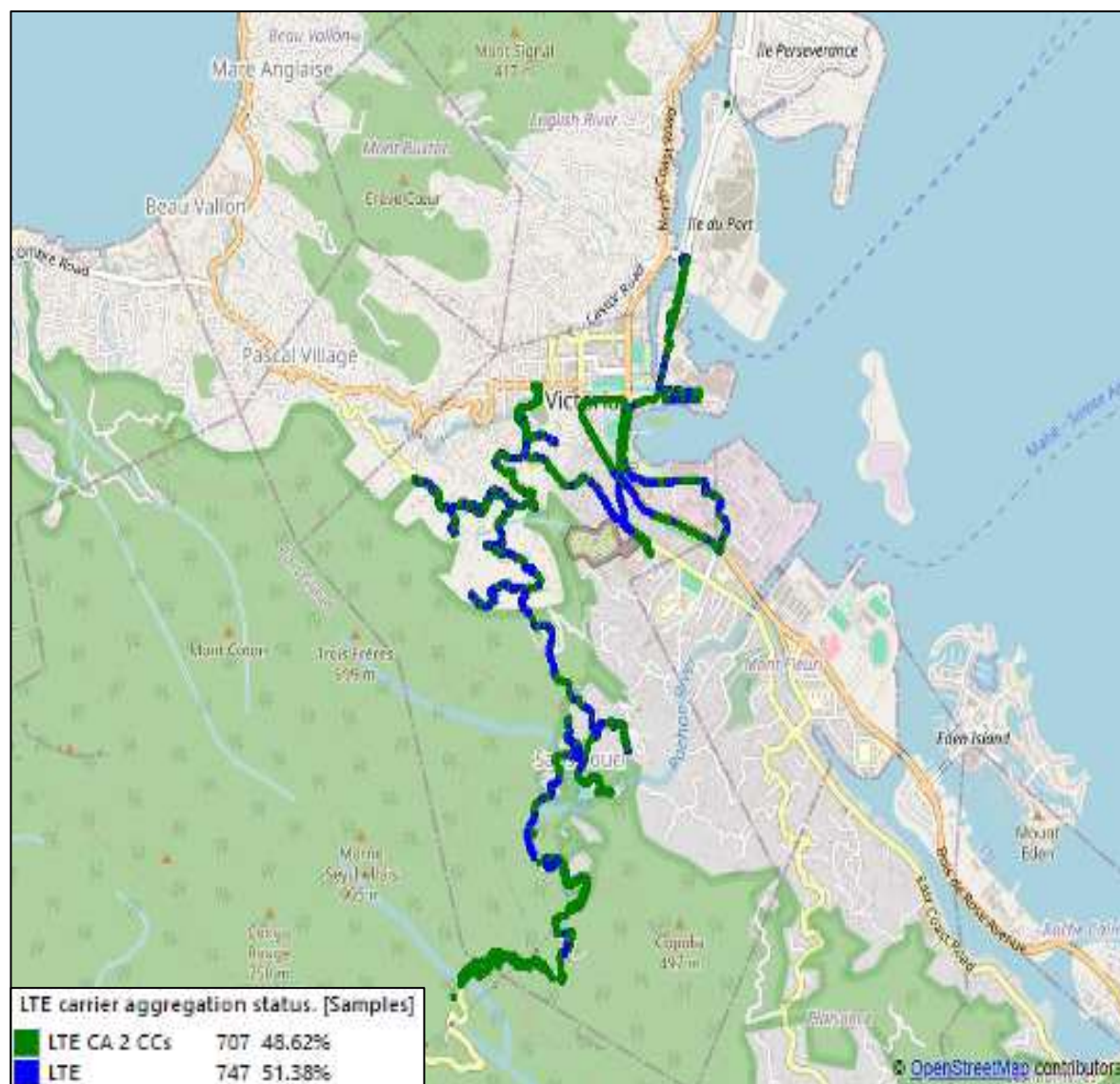
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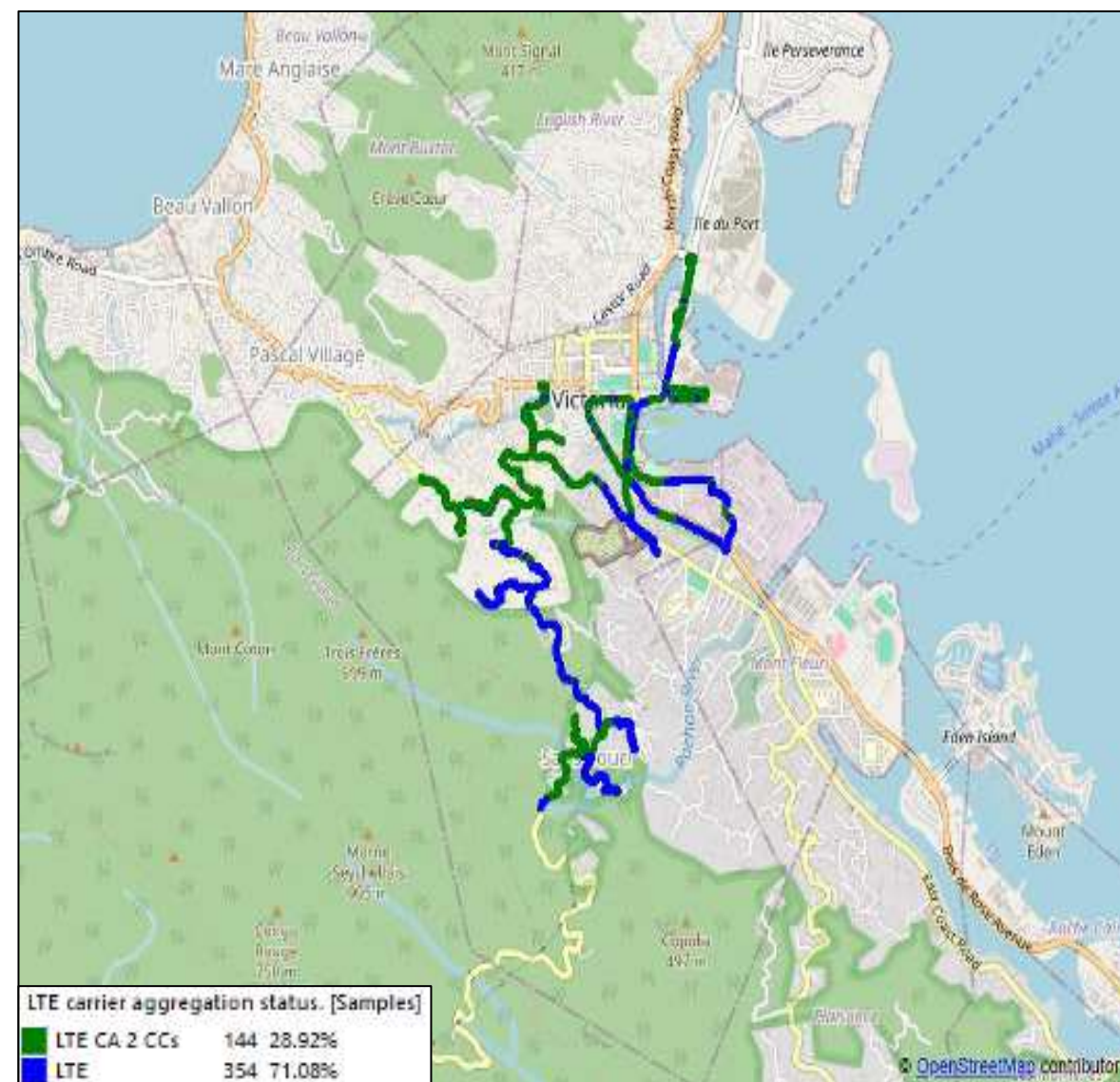
CWS Data 4G



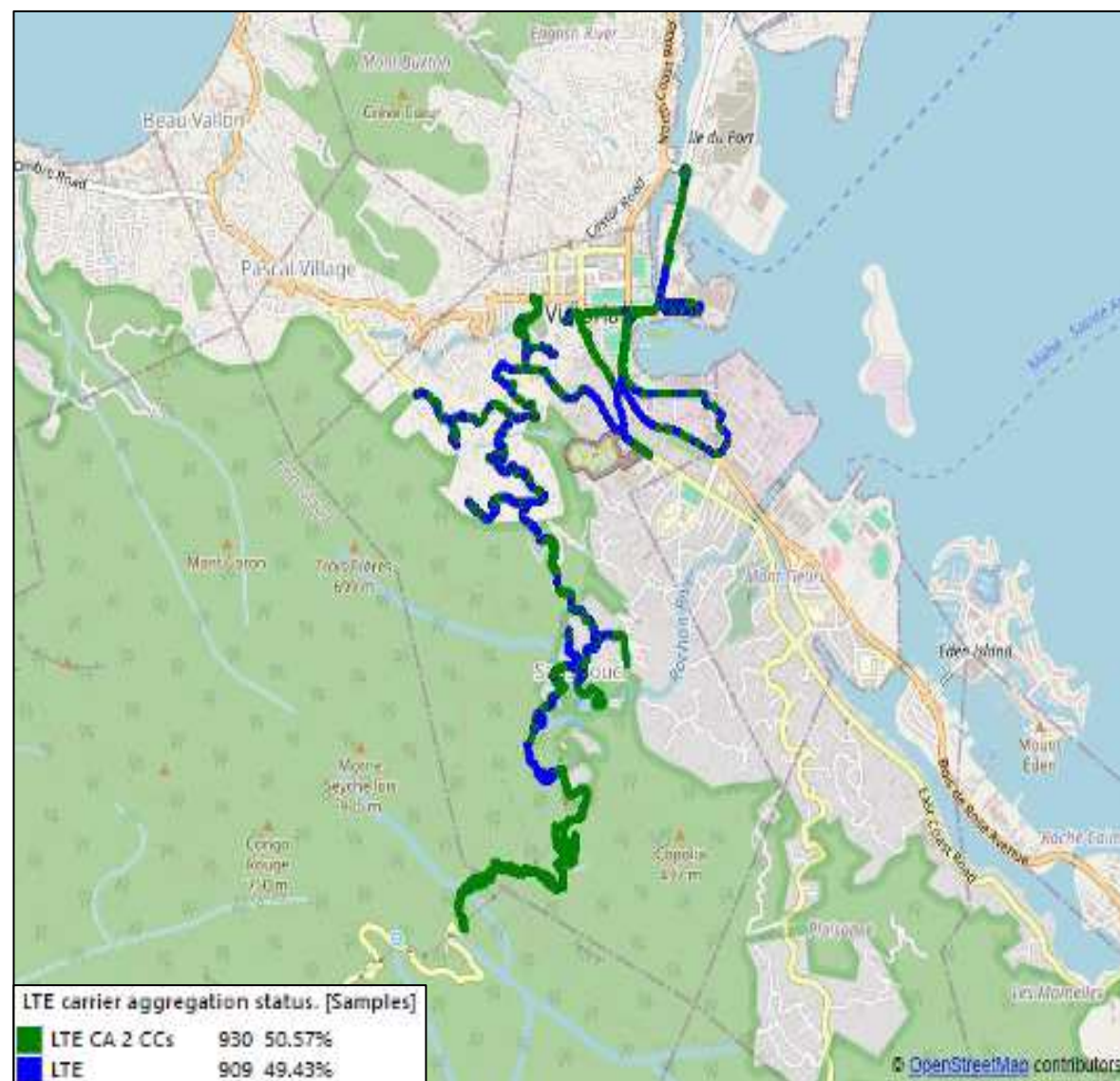
Airtel Data 4G



CWS Data 4G



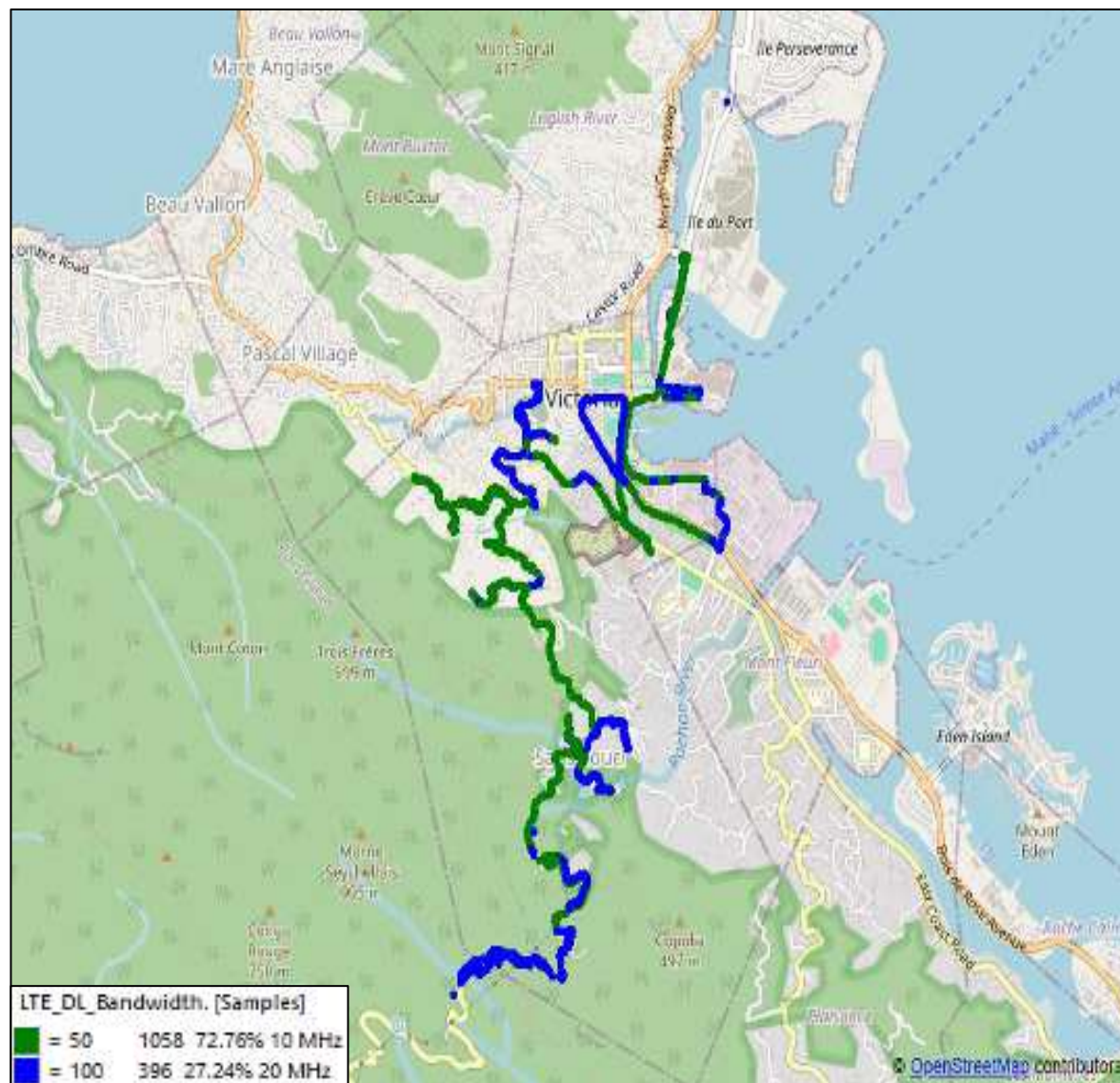
Airtel Data 4G



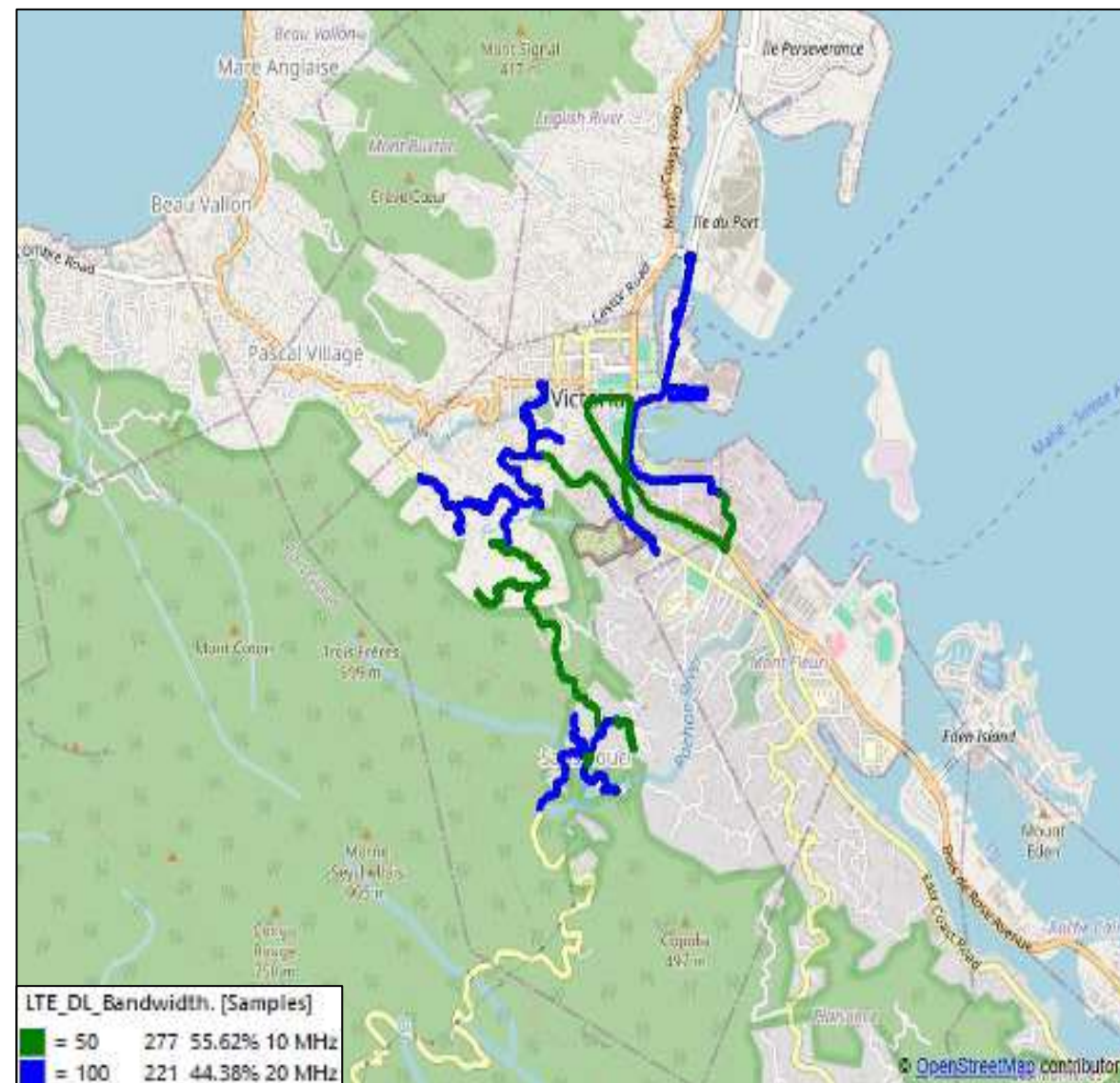
CWS Data 4G



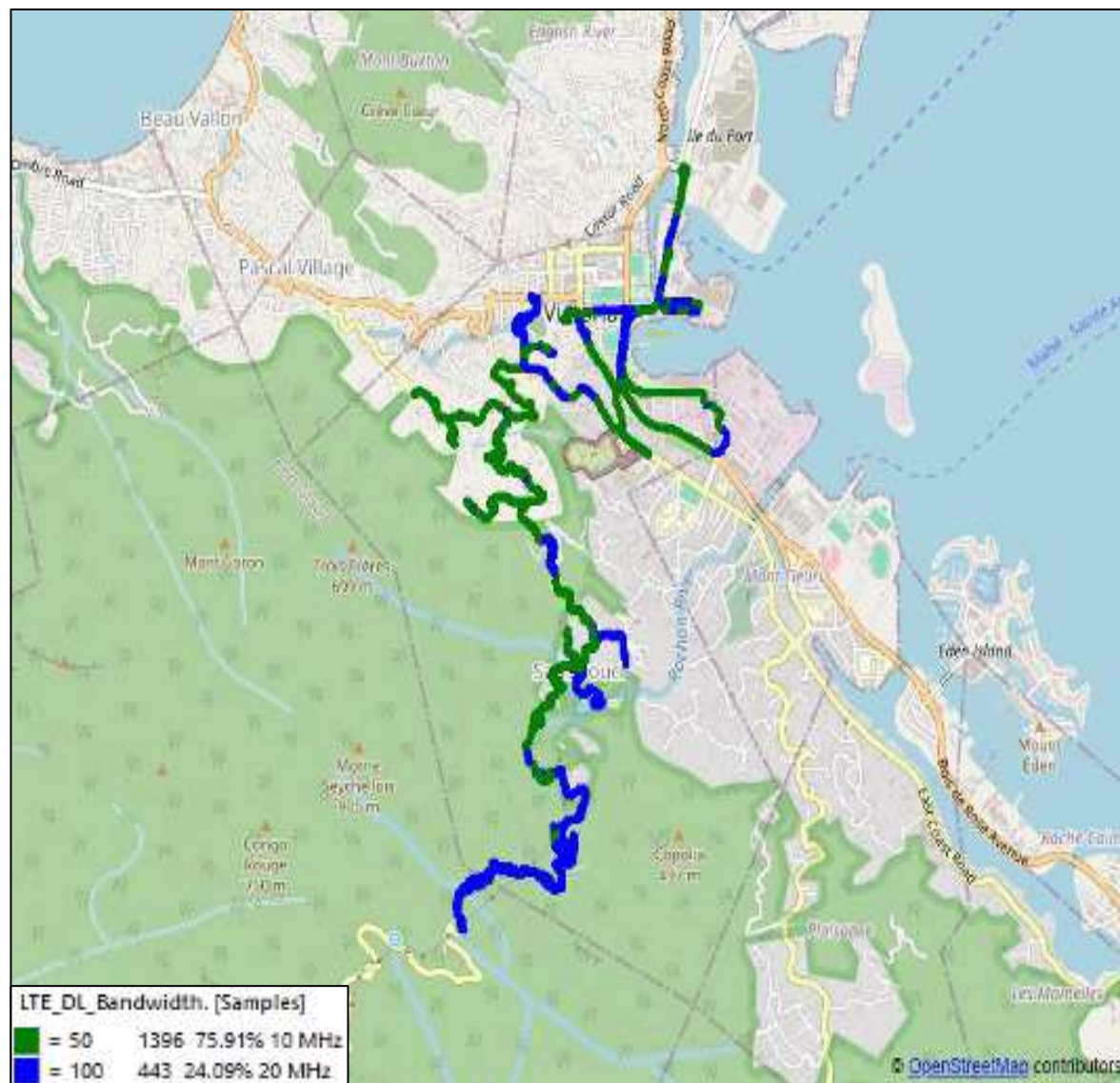
Airtel Data 4G



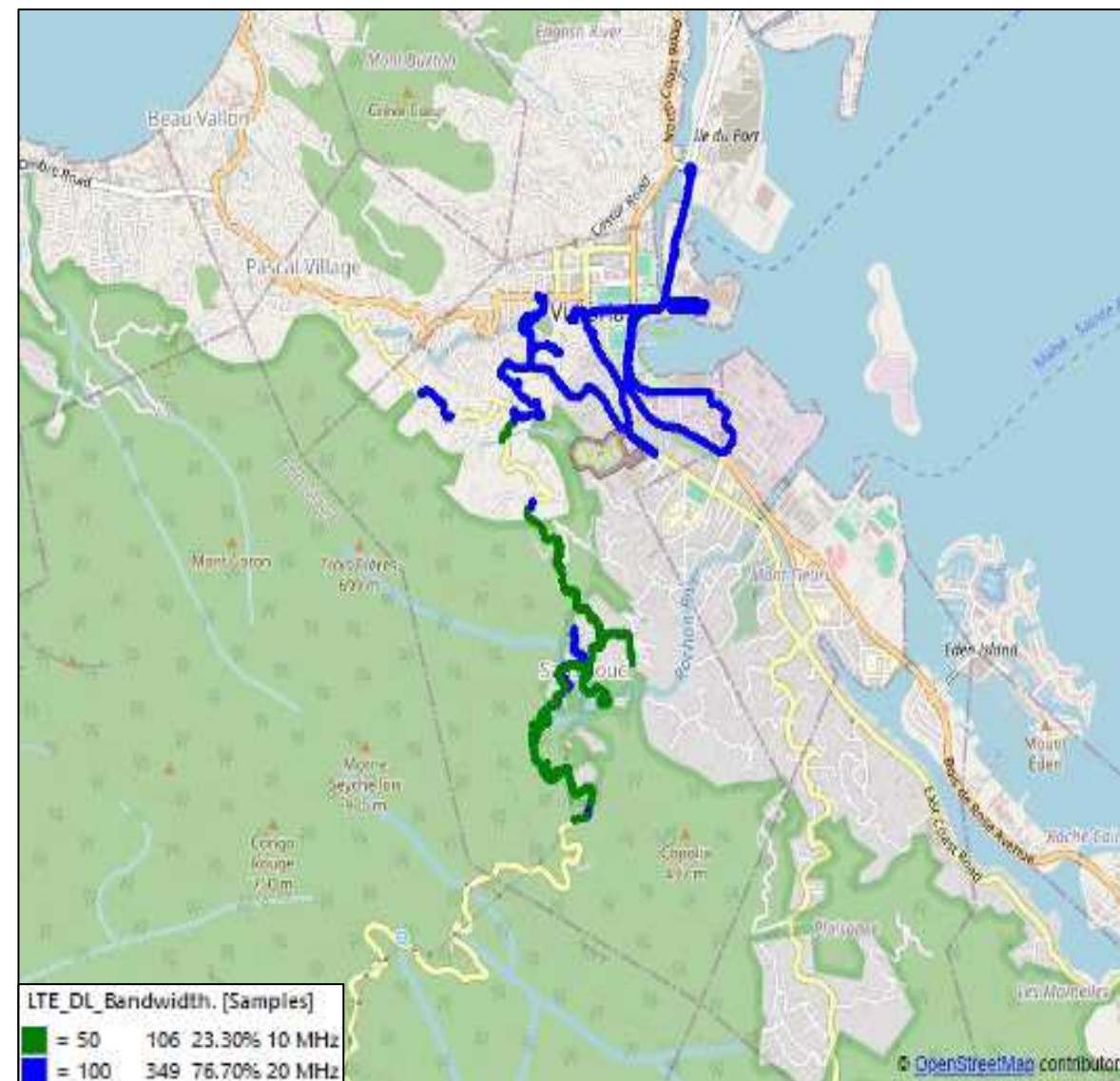
CWS Data 4G



Airtel Data 4G



CWS Data 4G



Negative Event Analysis

Phase-1 Call Drop & Call Attempt Failure Airtel , CWS Summary

Call Attempt Failure cause from Airtel	Count
Total Call Attempt Failure	2
Poor Coverage	1
Poor Quality	1

Call Attempt Failure cause from CWS	Count
Total Call Attempt Failure	7
Poor Coverage	5
Poor Quality	1
Network End	1

Call Drop cause from Airtel	Count
Total Call Drop	1
Poor Quality	1

Call Drop cause from CWS	Count
Total Call Drop	0

Phase-1 Call Attempt Failure Analysis 1 From MS5 Airtel MO

	Time	System	Serving band	Cal		1. best active RSCP	Time	Ch	SC	1. best active Ec/NO ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:13:15.535	UMTS FDD	2100	Dr	1678.		12:12:31.126	3050	432	-8.6	6507.	RRCSM	UMTS FDD	Downlink	12:13:08.363	DCCH	DOWNLINK_DIRECT_TRANSFER
2.	13:00:20.667	UMTS FDD	2100	Not	1679.	-80.8	12:12:31.788	3050	453		6508.	L3SM	UMTS FDD	Downlink	12:13:08.363	DCCH	IDENTITY_REQUEST
					1680.		12:12:31.788	3050	453	-12.2	6509.	RRCSM	UMTS FDD	Uplink	12:13:08.364	DCCH	UPLINK_DIRECT_TRANSFER
					1681.	-82.8	12:12:32.161	3050	432		6510.	L3SM	UMTS FDD	Uplink	12:13:08.364	DCCH	IDENTITY_RESPONSE
					1682.		12:12:32.161	3050	432	-9.1	6511.	RRCSM	UMTS FDD	Downlink	12:13:08.373	DCCH	ACTIVE_SET_UPDATE
					1683.	-79.8	12:12:32.648	3050	432		6512.	RRCSM	UMTS FDD	Uplink	12:13:08.385	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					1684.		12:12:32.648	3050	432	-12.3	6513.	RRCSM	UMTS FDD	Downlink	12:13:08.503	DCCH	MEASUREMENT_CONTROL
					1685.	-78.9	12:12:33.269	3050	432		6514.	RRCSM	UMTS FDD	Downlink	12:13:08.523	DCCH	DOWNLINK_DIRECT_TRANSFER
					1686.		12:12:33.269	3050	432	-13.6	6515.	L3SM	UMTS FDD	Downlink	12:13:08.523	DCCH	CALL_PROCEEDING
					1687.	-76	12:12:33.743	3050	432		6516.	RRCSM	UMTS FDD	Downlink	12:13:08.693	DCCH	RADIO_BEARER_SETUP
					1688.		12:12:33.743	3050	432	-14	6517.	RRCSM	UMTS FDD	Uplink	12:13:08.857	DCCH	MEASUREMENT_REPORT
					1689.	-77	12:12:34.416	3050	432		6518.	RRCSM	UMTS FDD	Uplink	12:13:09.046	DCCH	RADIO_BEARER_SETUP_COMPLETE
					1690.		12:12:34.416	3050	432	-11.3	6519.	RRCSM	UMTS FDD	Uplink	12:13:09.195	DCCH	MEASUREMENT_REPORT
					1691.	-74.6	12:12:34.830	3050	432		6520.	RRCSM	UMTS FDD	Uplink	12:13:09.229	DCCH	MEASUREMENT_REPORT
					1692.		12:12:34.830	3050	432	-10.6	6521.	RRCSM	UMTS FDD	Downlink	12:13:09.334	DCCH	RADIO_BEARER_RECONFIGURATION
					1693.	-76	12:12:35.413	3050	432		6522.	RRCSM	UMTS FDD	Uplink	12:13:09.338	DCCH	MEASUREMENT_REPORT
					1694.		12:12:35.413	3050	432	-7.9	6523.	RRCSM	UMTS FDD	Uplink	12:13:09.376	DCCH	RADIO_BEARER_RECONFIGURATION_COM
					1695.	-72.7	12:12:35.887	3050	432		6524.	RRCSM	UMTS FDD	Downlink	12:13:09.414	DCCH	DOWNLINK_DIRECT_TRANSFER
					1696.		12:12:35.887	3050	432	-10.2	6525.	L3SM	UMTS FDD	Downlink	12:13:09.414	DCCH	PROGRESS
					1697.	-67	12:12:36.465	3050	432		6526.	RRCSM	UMTS FDD	Downlink	12:13:09.734	DCCH	ACTIVE_SET_UPDATE
					1698.		12:12:36.465	3050	432	-7.2	6527.	RRCSM	UMTS FDD	Uplink	12:13:09.745	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					1699.	-92.3	12:13:07.488	10588	104		6528.	RRCSM	UMTS FDD	Uplink	12:13:09.857	DCCH	MEASUREMENT_REPORT
					1700.		12:13:07.488	10588	104	-17.1	6529.	RRCSM	UMTS FDD	Downlink	12:13:10.094	DCCH	MEASUREMENT_CONTROL
					1701.	-89.6	12:13:08.134	10588	104		6530.	RRCSM	UMTS FDD	Downlink	12:13:10.134	DCCH	ACTIVE_SET_UPDATE
					1702.		12:13:08.134	10588	104	-15.7	6531.	RRCSM	UMTS FDD	Uplink	12:13:10.165	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					1703.	-87.3	12:13:08.566	10588	104		6532.	RRCSM	UMTS FDD	Uplink	12:13:10.317	DCCH	MEASUREMENT_REPORT
					1704.		12:13:08.566	10588	104	-20.9	6533.	RRCSM	UMTS FDD	Downlink	12:13:10.494	DCCH	MEASUREMENT_CONTROL
					1705.	-80.5	12:13:09.188	10588	104		6534.	RRCSM	UMTS FDD	Uplink	12:13:10.497	DCCH	MEASUREMENT_REPORT
					1706.		12:13:09.188	10588	104	-17.1	6535.	RRCSM	UMTS FDD	Downlink	12:13:10.734	DCCH	ACTIVE_SET_UPDATE
					1707.	-79.9	12:13:09.634	10588	104		6536.	RRCSM	UMTS FDD	Uplink	12:13:10.765	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					1708.		12:13:09.634	10588	104	-17.4	6537.	RRCSM	UMTS FDD	Downlink	12:13:11.094	DCCH	MEASUREMENT_CONTROL
					1709.	-80.4	12:13:10.349	10588	104		6538.	RRCSM	UMTS FDD	Downlink	12:13:15.534	DCCH	DOWNLINK_DIRECT_TRANSFER

Analysis:

- This call failure event occurred on short call at 12:13:15:535 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the failure, UE was latched with PSC 104 and RF condition RSCP -79.9 dBm good but Ec/No -17.4 dB are very poor.
- Call failed due to poor network quality on the MO site. Network issues such as low signal strength or interference in the area are impacting call performance.

Phase-1 Call Attempt Failure Analysis 2 From MS5 Airtel MO

	Time	System	Serving band	Cal		1. best active RSCP	Time	Ch	SC	1. best active Ec/NO ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:13:15.535	UMTS FDD	2100	Dro	5375.		13:00:11.535	10588	88	-22.7		20023.	RRCSM	UMTS FDD	Downlink	13:00:09.004	DCCH	MEASUREMENT_CONTROL
2.	13:00:20.667	UMTS FDD	2100	No	5376.	-123.2	13:00:12.096	10588	88			20024.	RRCSM	UMTS FDD	Uplink	13:00:09.290	DCCH	MEASUREMENT_REPORT
					5377.		13:00:12.096	10588	88	-23.3		20025.	RRCSM	UMTS FDD	Downlink	13:00:09.394	DCCH	ACTIVE_SET_UPDATE
					5378.	-121.3	13:00:12.535	10588	88			20026.	RRCSM	UMTS FDD	Uplink	13:00:09.426	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					5379.		13:00:12.535	10588	88	-22.4		20027.	RRCSM	UMTS FDD	Downlink	13:00:09.554	DCCH	MEASUREMENT_CONTROL
					5380.	-123.8	13:00:13.336	10588	88			20028.	RRCSM	UMTS FDD	Uplink	13:00:09.579	DCCH	MEASUREMENT_REPORT
					5381.		13:00:13.336	10588	88	-24.5		20029.	RRCSM	UMTS FDD	Downlink	13:00:09.714	DCCH	RADIO_BEARER_SETUP
					5382.	-122	13:00:13.535	10588	88			20030.	RRCSM	UMTS FDD	Uplink	13:00:09.860	DCCH	MEASUREMENT_REPORT
					5383.		13:00:13.535	10588	88	-23.2		20031.	RRCSM	UMTS FDD	Uplink	13:00:10.028	DCCH	RADIO_BEARER_SETUP_COMPLETE
					5384.	-118.7	13:00:14.414	10588	88			20032.	RRCSM	UMTS FDD	Downlink	13:00:10.315	DCCH	RADIO_BEARER_RECONFIGURATION
					5385.		13:00:14.414	10588	88	-17.7		20033.	RRCSM	UMTS FDD	Downlink	13:00:10.355	DCCH	DOWNLINK_DIRECT_TRANSFER
					5386.	-119.9	13:00:14.734	10588	88			20034.	L3SM	UMTS FDD	Downlink	13:00:10.355	DCCH	PROGRESS
					5387.		13:00:14.734	10588	88	-21.4		20035.	RRCSM	UMTS FDD	Uplink	13:00:10.357	DCCH	RADIO_BEARER_RECONFIGURATION_COM
					5388.	-116.1	13:00:15.225	10588	88			20036.	RRCSM	UMTS FDD	Uplink	13:00:10.583	DCCH	MEASUREMENT_REPORT
					5389.		13:00:15.225	10588	88	-17.1		20037.	RRCSM	UMTS FDD	Downlink	13:00:10.595	DCCH	ACTIVE_SET_UPDATE
					5390.	-117.6	13:00:15.535	10588	88			20038.	RRCSM	UMTS FDD	Uplink	13:00:10.626	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					5391.		13:00:15.535	10588	88	-16.6		20039.	RRCSM	UMTS FDD	Downlink	13:00:10.915	DCCH	MEASUREMENT_CONTROL
					5392.	-113.9	13:00:16.516	10588	88			20040.	RRCSM	UMTS FDD	Downlink	13:00:10.995	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					5393.		13:00:16.516	10588	88	-15.7		20041.	RRCSM	UMTS FDD	Uplink	13:00:11.037	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					5394.	-113.4	13:00:16.716	10588	88			20042.	RRCSM	UMTS FDD	Downlink	13:00:11.874	DCCH	MEASUREMENT_CONTROL
					5395.		13:00:16.716	10588	88	-14.9		20043.	RRCSM	UMTS FDD	Downlink	13:00:13.034	DCCH	SECURITY_MODE_COMMAND
					5396.	-115	13:00:17.425	10588	88			20044.	RRCSM	UMTS FDD	Uplink	13:00:13.035	DCCH	SECURITY_MODE_COMPLETE
					5397.		13:00:17.425	10588	88	-17.3		20045.	RRCSM	UMTS FDD	Downlink	13:00:13.794	DCCH	DOWNLINK_DIRECT_TRANSFER
					5398.	-117.4	13:00:17.745	10588	88			20046.	L3SM	UMTS FDD	Downlink	13:00:13.794	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					5399.		13:00:17.745	10588	88	-19		20047.	RRCSM	UMTS FDD	Uplink	13:00:13.797	DCCH	UPLINK_DIRECT_TRANSFER
					5400.	-117.1	13:00:18.425	10588	88			20048.	L3SM	UMTS FDD	Uplink	13:00:13.797	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					5401.		13:00:18.425	10588	88	-16.7		20049.	RRCSM	UMTS FDD	Downlink	13:00:14.234	DCCH	DOWNLINK_DIRECT_TRANSFER
					5402.	-114.8	13:00:18.734	10588	88			20050.	L3SM	UMTS FDD	Downlink	13:00:14.234	DCCH	GMM_INFO
					5403.		13:00:18.734	10588	88	-17.9		20051.	RRCSM	UMTS FDD	Downlink	13:00:14.394	DCCH	SIGNALLING_CONNECTION_RELEASE
					5404.	-108.5	13:00:19.425	10588	88			20052.	RRCSM	UMTS FDD	Uplink	13:00:15.225	DCCH	MEASUREMENT_REPORT
					5405.		13:00:19.425	10588	88	-11.9		20053.	RRCSM	UMTS FDD	Uplink	13:00:17.778	DCCH	MEASUREMENT_REPORT
					5406.	-116	13:00:19.725	10588	88			20054.	RRCSM	UMTS FDD	Uplink	13:00:20.367	DCCH	UPLINK_DIRECT_TRANSFER
					5407.		13:00:19.725	10588	88	-18.6		20055.	L3SM	UMTS FDD	Uplink	13:00:20.367	DCCH	DISCONNECT
					5408.	-113.3	13:00:20.424	10588	88			20056.	RRCSM	UMTS FDD	Downlink	13:00:20.554	DCCH	DOWNLINK_DIRECT_TRANSFER
					5409.		13:00:20.424	10588	88	-15.6		20057.	L3SM	UMTS FDD	Downlink	13:00:20.554	DCCH	RELEASE
					5410.	-110.8	13:00:21.111	10588	88			20058.	RRCSM	UMTS FDD	Uplink	13:00:20.667	DCCH	UPLINK_DIRECT_TRANSFER
					5411.		13:00:21.111	10588	88	-12.8		20059.	L3SM	UMTS FDD	Uplink	13:00:20.667	DCCH	RELEASE_COMPLETE

Analysis:

- This call failure event occurred on short call at 13:00:20:667 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the failure, UE was latched with PSC 88 and RF condition RSCP -113.3 dBm and Ec/No -15.6 dB are very poor.
- Call failed due to poor network coverage at the MO site. Insufficient signal strength in the area is causing call failures. Improving coverage in this region is necessary to enhance call success rates."

Phase-1 Call Attempt Failure Analysis 1 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:27:13.585	UMTS FDD	2100	Dro	2666.		12:26:22.794	10690	20	-13.1		9533.	L3SM	UMTS FDD	Downlink	12:26:59.636	DCCH	TMSI_REALLOCATION_COMMAND
2.	12:28:51.260	GSM	900	Dro	2667.	-97.5	12:26:23.354	10715	20			9534.	RRCSM	UMTS FDD	Uplink	12:26:59.637	DCCH	UPLINK_DIRECT_TRANSFER
3.	12:31:37.571	UMTS FDD	2100	Dro	2668.		12:26:23.354	10715	20	-9.4		9535.	L3SM	UMTS FDD	Uplink	12:26:59.637	DCCH	TMSI_REALLOCATION_COMPLETE
4.	12:32:18.439	GSM	0	Call	2669.	-103.5	12:26:23.954	10690	316			9536.	RRCSM	UMTS FDD	Downlink	12:26:59.786	DCCH	DOWNLINK_DIRECT_TRANSFER
5.	12:33:08.185	GSM	900	Dro	2670.		12:26:23.954	10690	316	-15		9537.	L3SM	UMTS FDD	Downlink	12:26:59.786	DCCH	CALL_PROCEEDING
6.	12:37:30.515	GSM	900	Call	2671.	-103.7	12:26:24.455	10690	316			9538.	RRCSM	UMTS FDD	Uplink	12:27:00.910	DCCH	MEASUREMENT_REPORT
7.	12:39:09.762	UMTS FDD	2100	Call	2672.		12:26:24.455	10690	316	-16		9539.	RRCSM	UMTS FDD	Uplink	12:27:03.519	DCCH	MEASUREMENT_REPORT
					2673.	-104	12:26:24.954	10690	316			9540.	RRCSM	UMTS FDD	Downlink	12:27:03.646	DCCH	ACTIVE_SET_UPDATE
					2674.		12:26:24.954	10715	20	-16.6		9541.	RRCSM	UMTS FDD	Uplink	12:27:03.658	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					2675.	-103.4	12:26:25.484	10690	316			9542.	RRCSM	UMTS FDD	Downlink	12:27:03.776	DCCH	MEASUREMENT_CONTROL
					2676.		12:26:25.484	10690	316	-15.5		9543.	RRCSM	UMTS FDD	Uplink	12:27:03.908	DCCH	MEASUREMENT_REPORT
					2677.	-104	12:26:25.954	10690	316			9544.	RRCSM	UMTS FDD	Downlink	12:27:04.066	DCCH	ACTIVE_SET_UPDATE
					2678.		12:26:25.954	10690	316	-15.8		9545.	RRCSM	UMTS FDD	Uplink	12:27:04.078	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					2679.	-102.1	12:26:26.455	10690	316			9546.	RRCSM	UMTS FDD	Downlink	12:27:04.176	DCCH	MEASUREMENT_CONTROL
					2680.		12:26:26.455	10690	316	-14.5		9547.	RRCSM	UMTS FDD	Downlink	12:27:04.586	DCCH	DOWNLINK_DIRECT_TRANSFER
					2681.	-103.1	12:26:27.014	10690	316			9548.	L3SM	UMTS FDD	Downlink	12:27:04.586	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					2682.		12:26:27.014	10690	316	-12.6		9549.	RRCSM	UMTS FDD	Uplink	12:27:04.625	DCCH	UPLINK_DIRECT_TRANSFER
					2683.	-102	12:26:27.538	10690	316			9550.	L3SM	UMTS FDD	Uplink	12:27:04.625	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					2684.		12:26:27.538	10690	316	-13.3		9551.	RRCSM	UMTS FDD	Downlink	12:27:04.906	DCCH	SECURITY_MODE_COMMAND
					2685.	-116	12:26:57.576	10690	83			9552.	RRCSM	UMTS FDD	Uplink	12:27:04.906	DCCH	SECURITY_MODE_COMPLETE
					2686.		12:26:57.576	10690	83	-24.5		9553.	RRCSM	UMTS FDD	Downlink	12:27:05.246	DCCH	DOWNLINK_DIRECT_TRANSFER
					2687.	-116	12:26:57.786	10690	83			9554.	L3SM	UMTS FDD	Downlink	12:27:05.246	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					2688.	-116	12:26:58.338	10690	83			9555.	RRCSM	UMTS FDD	Uplink	12:27:05.248	DCCH	UPLINK_DIRECT_TRANSFER
					2689.		12:26:58.338	10690	83	-19.8		9556.	L3SM	UMTS FDD	Uplink	12:27:05.248	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					2690.	-116	12:26:58.895	10690	83			9557.	RRCSM	UMTS FDD	Uplink	12:27:05.251	DCCH	UPLINK_DIRECT_TRANSFER
					2691.		12:26:58.895	10690	83	-15		9558.	L3SM	UMTS FDD	Uplink	12:27:05.251	DCCH	SERVICE_REQUEST
					2692.	-116	12:26:59.411	10690	83			9559.	RRCSM	UMTS FDD	Uplink	12:27:05.302	DCCH	MEASUREMENT_REPORT
					2693.		12:26:59.411	10690	83	-20		9560.	RRCSM	UMTS FDD	Uplink	12:27:05.342	DCCH	MEASUREMENT_REPORT
					2694.	-86.7	12:27:03.703	10690	20			9561.	RRCSM	UMTS FDD	Downlink	12:27:05.356	DCCH	DOWNLINK_DIRECT_TRANSFER
					2695.		12:27:03.703	10690	20	-7.9		9562.	L3SM	UMTS FDD	Downlink	12:27:05.356	DCCH	SERVICE_ACCEPT
					2696.	-91.2	12:27:04.336	10690	20			9563.	RRCSM	UMTS FDD	Uplink	12:27:05.414	DCCH	MEASUREMENT_REPORT
					2697.		12:27:04.336	10690	20	-12.8		9564.	RRCSM	UMTS FDD	Downlink	12:27:05.576	DCCH	RADIO_BEARER_SETUP
					2698.	-95.1	12:27:04.677	10690	15			9565.	RRCSM	UMTS FDD	Uplink	12:27:05.828	DCCH	RADIO_BEARER_SETUP_COMPLETE
					2699.		12:27:04.677	10690	15	-15.5		9566.	RRCSM	UMTS FDD	Uplink	12:27:06.723	DCCH	MEASUREMENT_REPORT

Analysis:

- This call failure event occurred on short call at 12:27:13:585 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the failure, UE was latched with PSC 83 and RF condition RSCP -116 dBm poor but Ec/No -20 dB are very poor.
- Call failed due to poor network coverage and quality at the MO site. Low signal strength and degraded network quality are contributing to call failures

Phase-1 Call Attempt Failure Analysis 2 From MS7 CWS MO

	Time	System	Serving band		Time	RxLev sub	ARFCN	LAC	RAC	RXQ sub ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:27:13.585	UMTS FDD	2100	Dro	498.	12:28:44.734				4		10024.	L3SM	GSM	Uplink	12:28:47.088	SACCH	MEASUREMENT_REPORT
2.	12:28:51.260	GSM	900	Dro	499.	12:28:44.974	-91	20	1			10025.	L3SM	GSM	Downlink	12:28:47.240	SACCH	SYSTEM_INFORMATION_TYPE_6
3.	12:31:37.571	UMTS FDD	2100	Dro	500.	12:28:45.205				5		10026.	L3SM	GSM	Uplink	12:28:47.559	SACCH	MEASUREMENT_REPORT
4.	12:32:18.439	GSM	0	Call	501.	12:28:45.676	-92	20	1			10027.	L3SM	GSM	Downlink	12:28:47.711	SACCH	MEASUREMENT_INFORMATION
5.	12:33:08.185	GSM	900	Dro	502.	12:28:45.676				0		10028.	L3SM	GSM	Uplink	12:28:48.030	SACCH	MEASUREMENT_REPORT
6.	12:37:30.515	GSM	900	Call	503.	12:28:46.147	-90	20	1			10029.	L3SM	GSM	Downlink	12:28:48.182	SACCH	MEASUREMENT_INFORMATION
7.	12:39:09.762	UMTS FDD	2100	Call	504.	12:28:46.147				6		10030.	L3SM	GSM	Uplink	12:28:48.500	SACCH	MEASUREMENT_REPORT
					505.	12:28:46.618				0		10031.	L3SM	GSM	Downlink	12:28:48.653	SACCH	MEASUREMENT_INFORMATION
					506.	12:28:46.970	-92	20	1			10032.	L3SM	GSM	Uplink	12:28:48.971	SACCH	MEASUREMENT_REPORT
					507.	12:28:47.088				4		10033.	L3SM	GSM	Downlink	12:28:49.123	SACCH	MEASUREMENT_INFORMATION
					508.	12:28:47.559				0		10034.	L3SM	GSM	Uplink	12:28:49.442	SACCH	MEASUREMENT_REPORT
					509.	12:28:47.711	-87	20	1			10035.	L3SM	GSM	Downlink	12:28:49.594	SACCH	MEASUREMENT_INFORMATION
					510.	12:28:48.030				0		10036.	L3SM	GSM	Uplink	12:28:49.913	SACCH	MEASUREMENT_REPORT
					511.	12:28:48.500	-87	20	1			10037.	L3SM	GSM	Downlink	12:28:50.065	SACCH	MEASUREMENT_INFORMATION
					512.	12:28:48.975	-91	20	1			10038.	L3SM	GSM	Uplink	12:28:50.384	SACCH	MEASUREMENT_REPORT
					513.	12:28:49.682	-90	20	1			10039.	L3SM	GSM	Downlink	12:28:50.536	SACCH	SYSTEM_INFORMATION_TYPE_5
					514.	12:28:49.913				2		10040.	L3SM	GSM	Downlink	12:28:50.623	DCCH	ASSIGNMENT_COMMAND
					515.	12:28:50.336	-89	20	1			10041.	L3SM	GSM	Uplink	12:28:50.683	DCCH	ASSIGNMENT_COMPLETE
					516.	12:28:50.384				0		10042.	L3SM	GSM	Downlink	12:28:51.071	SACCH	SYSTEM_INFORMATION_TYPE_5
					517.	12:28:50.822	-89	20	1			10043.	L3SM	GSM	Uplink	12:28:51.118	SACCH	MEASUREMENT_REPORT
					518.	12:28:50.822				0		10044.	L3SM	GSM	Downlink	12:28:51.224	DCCH	DISCONNECT
					519.	12:28:51.118				0		10045.	L3SM	GSM	Uplink	12:28:51.260	DCCH	RELEASE
					520.	12:28:51.542	-88	24	1			10046.	L3SM	GSM	Downlink	12:28:51.385	DCCH	RELEASE_COMPLETE
					521.	12:28:51.597				0		10047.	L3SM	GSM	Downlink	12:28:51.551	SACCH	SYSTEM_INFORMATION_TYPE_5
					522.	12:28:51.800	-87	24	1			10048.	L3SM	GSM	Uplink	12:28:51.597	SACCH	MEASUREMENT_REPORT
					523.	12:28:51.800						10049.	L3SM	GSM	Downlink	12:28:51.763	DCCH	CHANNEL_RELEASE
					524.	12:28:53.578	-87	24	1	0		10050.	L3SM	GSM	Downlink	12:28:51.993	BCCH	SYSTEM_INFORMATION_TYPE_4
					525.	12:28:53.855	-90	20	1	0		10051.	L3SM	GSM	Downlink	12:28:52.229	BCCH	SYSTEM_INFORMATION_TYPE_1
					526.	12:28:54.359	-90	20	1	0		10052.	L3SM	GSM	Downlink	12:28:52.469	BCCH	SYSTEM_INFORMATION_TYPE_2
					527.	12:28:54.922	-90	20	1	0		10053.	L3SM	GSM	Downlink	12:28:52.700	BCCH	SYSTEM_INFORMATION_TYPE_3
					528.	12:28:55.503	-90	20	1	0		10054.	L3SM	GSM	Downlink	12:28:52.719	BCCH	SYSTEM_INFORMATION_TYPE_1
					529.	12:28:55.937	-90	20	1	0		10055.	L3SM	GSM	Downlink	12:28:52.719	BCCH	SYSTEM_INFORMATION_TYPE_2
					530.	12:28:56.574	-90	20	1	0		10056.	L3SM	GSM	Downlink	12:28:52.720	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					531.	12:28:57.072	-90	20	1	0		10057.	L3SM	GSM	Downlink	12:28:52.720	BCCH	SYSTEM_INFORMATION_TYPE_13
					532.	12:28:58.171	-90	20	1	0		10058.	L3SM	GSM	Downlink	12:28:52.724	BCCH	SYSTEM_INFORMATION_TYPE_4
					533.	12:28:58.647	-90	20	1	0		10059.	L3SM	GSM	Downlink	12:28:52.724	BCCH	SYSTEM_INFORMATION_TYPE_3

Analysis:

- This call failure event occurred on short call at 12:28:51:260 time when UE was latched on to the 2G network.
- After sending the 'CM Service Request' message to the core network, the core network responded with a 'Call Proceeding' message. However, the call was disconnected with Cause (27): Destination out of order.
- During the call failure UE, was latched with ARFCN 20 and RF condition Rxlev -89 dBm is good and Rxqual 0 which is good.
- Need to check MT.

Downlink

DISCONNECT 3GPP TS 24.008 ver 15.4.0 Rel 15 (9.3.7.1)

M Protocol Discriminator (hex data: 3)
(0x3) Call control (call related SS message)

M Transaction Identifier (hex data: 8)
TI flag: 1 (the message is sent to the side that originates the TI)
TI value: 0

M Message Type (hex data: 25)
Message number: 37

M Cause (hex data: 02e09b)
Coding standard: Standard defined for the GSM PLMNs
Location: user

Cause (27): Destination out of order

Phase-1 Call Attempt Failure Analysis 2 From MS8 CWS MT

	Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
76.	12:27:05.425	-74	6	35	1	0		┌ └	9510.	MACSM	GSM	Downlink	12:28:47.517	PACCH	PACKET_UPLINK_ACK/NACK
77.	12:27:05.887	-74	6	35	1	0			9511.	MACSM	GSM	Uplink	12:28:47.554	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK
78.	12:27:06.607	-74	6	35	1	0			9512.	MACSM	GSM	Downlink	12:28:47.614	PACCH	PACKET_UPLINK_ACK/NACK
79.	12:27:06.990	-74	6	35	1	0			9513.	MACSM	GSM	Downlink	12:28:47.614	PACCH	PACKET_UPLINK_ACK/NACK
80.	12:27:07.413	-74	6	35	1	0			9514.	MACSM	GSM	Downlink	12:28:47.637	PACCH	PACKET_UPLINK_ACK/NACK
81.	12:27:08.000	-74	6	35	1	0			9515.	MACSM	GSM	Uplink	12:28:47.656	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK
82.	12:27:08.414	-74	6	35	1	0			9516.	MACSM	GSM	Uplink	12:28:47.933	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK
83.	12:27:08.882	-74	6	35	1	0			9517.	MACSM	GSM	Downlink	12:28:47.937	PACCH	PACKET_UPLINK_ACK/NACK
84.	12:27:09.439	-67	6	35	1	0			9518.	MACSM	GSM	Downlink	12:28:47.974	PACCH	PACKET_UPLINK_ASSIGNMENT
85.	12:27:10.025				1	0			9519.	MACSM	GSM	Downlink	12:28:47.997	PACCH	PACKET_UPLINK_ACK/NACK
86.	12:27:10.503	-67	6	35	1	0		9520.	L3SM	GSM	Downlink	12:28:48.016	PDTCH	ROUTING_AREA_UPDATE_ACCEPT	
87.	12:28:47.527	-86	6	35	1	0		9521.	L3SM	GSM	Uplink	12:28:48.017	PDTCH	ROUTING_AREA_UPDATE_COMPLETE	
88.	12:28:48.017	-85	6	35	1	0		9522.	L3SM	GSM	Downlink	12:28:48.017	PDTCH	ROUTING_AREA_UPDATE_ACCEPT	
89.	12:28:48.408	-86	6	35	1	0		9523.	MACSM	GSM	Uplink	12:28:48.035	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK	
90.	12:28:49.114	-87	6	35	1	0		9524.	MACSM	GSM	Downlink	12:28:48.094	PACCH	PACKET_UPLINK_ACK/NACK	
91.	12:28:49.470	-87	6	35	1	0		9525.	MACSM	GSM	Downlink	12:28:48.094	PACCH	PACKET_UPLINK_ACK/NACK	
92.	12:28:50.074	-87	6	35	1	0		9526.	MACSM	GSM	Downlink	12:28:48.117	PACCH	PACKET_UPLINK_ACK/NACK	
93.	12:28:50.541	-87	6	35	1	0		9527.	MACSM	GSM	Downlink	12:28:48.136	PACCH	PACKET_UPLINK_ACK/NACK	
94.	12:28:51.038	-87	6	35	1	0		9528.	MACSM	GSM	Downlink	12:28:48.537	PACCH	PACKET_UPLINK_ACK/NACK	
95.	12:28:51.343	-87	6	35	1	0		9529.	L3SM	GSM	Downlink	12:28:48.574	PDTCH	MODIFY_PDP_CONTEXT_REQUEST	
96.	12:28:51.603	-85	6	35	1	0		9530.	MACSM	GSM	Downlink	12:28:48.717	PACCH	PACKET_UPLINK_ACK/NACK	
97.	12:28:52.487				1	0		9531.	MACSM	GSM	Downlink	12:28:49.756	PACCH	PACKET_UPLINK_ACK/NACK	
98.	12:28:53.006	-86	6	35	1	0		9532.	MACSM	GSM	Downlink	12:28:49.816	PACCH	PACKET_DOWNLINK_ASSIGNMENT	
99.	12:28:53.486	-85	6	35	1	0		9533.	L3SM	GSM	Downlink	12:28:49.885	BCCH	SYSTEM_INFORMATION_TYPE_3	
100.	12:28:54.428	-85	6	35	1	0		9534.	MACSM	GSM	Downlink	12:28:49.996	PACCH	PACKET_UPLINK_ACK/NACK	
101.	12:28:55.413	-85	6	35	1	0		9535.	MACSM	GSM	Downlink	12:28:49.996	PACCH	PACKET_UPLINK_ACK/NACK	
102.	12:28:56.781	-87	6	35	1	0		9536.	MACSM	GSM	Downlink	12:28:50.374	PACCH	PACKET_UPLINK_ACK/NACK	
103.	12:29:39.816						0	9537.	MACSM	GSM	Downlink	12:28:50.397	PACCH	PACKET_UPLINK_ACK/NACK	
104.	12:29:39.950	-69	20	25	1			9538.	MACSM	GSM	Downlink	12:28:50.494	PACCH	PACKET_UPLINK_ACK/NACK	
105.	12:29:41.346	-69	20	25	1			9539.	MACSM	GSM	Uplink	12:28:50.494	PACCH	PACKET_CONTROL_ACKNOWLEDGEMENT	
106.	12:29:41.833	-70	20	25	1			9540.	MACSM	GSM	Uplink	12:28:50.573	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK	
107.	12:29:42.413	-68	20	25	1			9541.	MACSM	GSM	Downlink	12:28:50.596	PACCH	PACKET_UPLINK_ACK/NACK	
108.	12:29:42.774	-68	20	25	1			9542.	MACSM	GSM	Downlink	12:28:50.836	PACCH	PACKET_UPLINK_ACK/NACK	
109.	12:29:43.414	-68	20	25	1			9543.	MACSM	GSM	Downlink	12:28:51.076	PACCH	PACKET_UPLINK_ACK/NACK	
110.	12:29:43.907	-69	20	25	1			9544.	L3SM	GSM	Downlink	12:28:51.603	CCCH	PAGING_REQUEST_TYPE_1	
111.	12:29:44.345	-70	20	25	1			9545.	L3SM	GSM	Downlink	12:28:53.006	CCCH	PAGING_REQUEST_TYPE_1	

Analysis:

- On MT End, During the setup fail, UE was latched with ARFCN 6 and RF condition Rxlev -87 dBm is good and Rxqual 0 which is good.
- As per the analysis call failure happened from network end.

Phase-1 Call Attempt Failure Analysis 3 From MS7 CWS MO

	Time	System	Serving band		1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:27:13.585	UMTS FDD	2100	Dro	2993.	12:31:34.782	10690	316	-13	11137.	RRCSM	UMTS FDD	Downlink	12:31:22.720	DCCH	DOWNLINK_DIRECT_TRANSFER
2.	12:28:51.260	GSM	900	Dro	2994.	12:31:35.212	10690	218	-104.2	11138.	L3SM	UMTS FDD	Downlink	12:31:22.720	DCCH	TMSI_REALLOCATION_COMMAND
3.	12:31:37.571	UMTS FDD	2100	Dro	2995.	12:31:35.212	10690	218	-11.4	11139.	RRCSM	UMTS FDD	Uplink	12:31:22.721	DCCH	UPLINK_DIRECT_TRANSFER
4.	12:32:18.439	GSM	0	Call	2996.	12:31:35.282	10690	218	-104.2	11140.	L3SM	UMTS FDD	Uplink	12:31:22.721	DCCH	TMSI_REALLOCATION_COMPLETE
5.	12:33:08.185	GSM	900	Dro	2997.	12:31:35.282	10690	218	-11.4	11141.	RRCSM	UMTS FDD	Downlink	12:31:23.040	DCCH	DOWNLINK_DIRECT_TRANSFER
6.	12:37:30.515	GSM	900	Call	2998.	12:31:35.718	10690	218	-105.8	11142.	L3SM	UMTS FDD	Downlink	12:31:23.040	DCCH	CALL_PROCEEDING
7.	12:39:09.762	UMTS FDD	2100	Call	2999.	12:31:35.718	10690	218	-16.3	11143.	RRCSM	UMTS FDD	Uplink	12:31:23.212	DCCH	MEASUREMENT_REPORT
					3000.	12:31:35.761	10690	218	-105.8	11144.	RRCSM	UMTS FDD	Uplink	12:31:23.712	DCCH	MEASUREMENT_REPORT
					3001.	12:31:35.761	10690	218	-16.3	11145.	RRCSM	UMTS FDD	Uplink	12:31:23.842	DCCH	MEASUREMENT_REPORT
					3002.	12:31:35.782	10690	218	-105.8	11146.	RRCSM	UMTS FDD	Downlink	12:31:24.160	DCCH	MEASUREMENT_CONTROL
					3003.	12:31:35.782	10690	218	-16.3	11147.	RRCSM	UMTS FDD	Uplink	12:31:24.222	DCCH	MEASUREMENT_REPORT
					3004.	12:31:35.852	10690	218	-105.8	11148.	RRCSM	UMTS FDD	Uplink	12:31:24.722	DCCH	MEASUREMENT_REPORT
					3005.	12:31:35.852	10690	218	-16.3	11149.	RRCSM	UMTS FDD	Uplink	12:31:25.161	DCCH	MEASUREMENT_REPORT
					3006.	12:31:36.336	10690	15	-101.5	11150.	RRCSM	UMTS FDD	Uplink	12:31:25.222	DCCH	MEASUREMENT_REPORT
					3007.	12:31:36.336	10690	15	-12.5	11151.	RRCSM	UMTS FDD	Uplink	12:31:25.694	DCCH	MEASUREMENT_REPORT
					3008.	12:31:36.762	10690	15	-101.5	11152.	RRCSM	UMTS FDD	Uplink	12:31:25.722	DCCH	MEASUREMENT_REPORT
					3009.	12:31:36.762	10690	15	-12.5	11153.	RRCSM	UMTS FDD	Uplink	12:31:25.842	DCCH	MEASUREMENT_REPORT
					3010.	12:31:36.792	10690	15	-101.5	11154.	RRCSM	UMTS FDD	Downlink	12:31:26.040	DCCH	ACTIVE_SET_UPDATE
					3011.	12:31:36.792	10690	15	-12.5	11155.	RRCSM	UMTS FDD	Uplink	12:31:26.067	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					3012.	12:31:36.880	10690	15	-97.6	11156.	RRCSM	UMTS FDD	Uplink	12:31:26.161	DCCH	MEASUREMENT_REPORT
					3013.	12:31:36.880	10690	15	-9.5	11157.	RRCSM	UMTS FDD	Uplink	12:31:26.232	DCCH	MEASUREMENT_REPORT
					3014.	12:31:37.243	10690	15	-100.9	11158.	RRCSM	UMTS FDD	Downlink	12:31:26.320	DCCH	MEASUREMENT_CONTROL
					3015.	12:31:37.243	10690	15	-9.4	11159.	RRCSM	UMTS FDD	Downlink	12:31:26.520	DCCH	MEASUREMENT_CONTROL
					3016.	12:31:37.292	10690	15	-100.9	11160.	RRCSM	UMTS FDD	Uplink	12:31:26.732	DCCH	MEASUREMENT_REPORT
					3017.	12:31:37.292	10690	15	-9.4	11161.	RRCSM	UMTS FDD	Uplink	12:31:26.732	DCCH	MEASUREMENT_REPORT
					3018.	12:31:37.792	10690	15	-100.9	11162.	RRCSM	UMTS FDD	Uplink	12:31:27.232	DCCH	MEASUREMENT_REPORT
					3019.	12:31:37.792	10690	218	-101.3	11163.	RRCSM	UMTS FDD	Uplink	12:31:27.521	DCCH	MEASUREMENT_REPORT
					3020.	12:31:37.792	10690	15	-9.4	11164.	RRCSM	UMTS FDD	Uplink	12:31:27.732	DCCH	MEASUREMENT_REPORT
					3021.	12:31:37.792	10690	218	-14	11165.	RRCSM	UMTS FDD	Uplink	12:31:27.762	DCCH	MEASUREMENT_REPORT
					3022.	12:31:37.917	10690	218	-101.3	11166.	RRCSM	UMTS FDD	Uplink	12:31:27.852	DCCH	MEASUREMENT_REPORT
					3023.	12:31:37.917	10690	218	-14	11167.	RRCSM	UMTS FDD	Uplink	12:31:28.072	DCCH	MEASUREMENT_REPORT
					3024.	12:31:38.241	10690	218	-101.3	11168.	RRCSM	UMTS FDD	Uplink	12:31:28.252	DCCH	MEASUREMENT_REPORT
					3025.	12:31:38.241	10690	218	-14	11169.	RRCSM	UMTS FDD	Uplink	12:31:28.521	DCCH	MEASUREMENT_REPORT
					3026.	12:31:38.282	10690	218	-100.9	11170.	RRCSM	UMTS FDD	Uplink	12:31:28.752	DCCH	MEASUREMENT_REPORT
					3027.	12:31:38.282	10690	218	-12.5	11171.	RRCSM	UMTS FDD	Uplink	12:31:29.252	DCCH	MEASUREMENT_REPORT
					3028.	12:31:38.292	10690	218	-100.9	11172.	RRCSM	UMTS FDD	Uplink	12:31:29.521	DCCH	MEASUREMENT_REPORT

Analysis:

- This call failure event occurred on short call at 12:31:37:571 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the failure, UE was latched with PSC 15 and RF condition RSCP -100.9 dBm poor but Ec/No -9.4 dB are very poor.
- Call failed due to poor network coverage at the MO site. Insufficient signal strength in the area is causing call failures.

Phase-1 Call Attempt Failure Analysis 4 From MS7 CWS MO

	Time	System	Serving band		Time	Band (MHz)	Ch	PCI	RSRP	SNR		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:27:13.585	UMTS FDD	2100	Dro	4174.	12:31:10.444	1800	1849	103	-114.9		11512.	RRCSM	LTE FDD	Downlink	12:32:18.118	DCCH	DLInformationTransfer
2.	12:28:51.260	GSM	900	Dro	4175.	12:31:10.444				-0.9		11513.	L3SM	LTE FDD	Downlink	12:32:18.118		TRACKING_AREA_UPDATE_ACCEPT
3.	12:31:37.571	UMTS FDD	2100	Dro	4176.	12:31:11.231	1800	1849	103	-117.2		11514.	L3SM	LTE FDD	Uplink	12:32:18.121		TRACKING_AREA_UPDATE_COMPLETE
4.	12:32:18.439	GSM	0	Cal	4177.	12:31:11.231				-2.1		11515.	RRCSM	LTE FDD	Uplink	12:32:18.121	DCCH	ULInformationTransfer
5.	12:33:08.185	GSM	900	Dro	4178.	12:31:11.739	1800	1849	103	-114.4		11516.	RRCSM	LTE FDD	Downlink	12:32:18.135	DCCH	RRConnectionRelease
6.	12:37:30.515	GSM	900	Call	4179.	12:31:11.739				-2.1		11517.	RRCSM	LTE FDD	Downlink	12:32:18.313	PCCH	Paging
7.	12:39:09.762	UMTS FDD	2100	Call	4180.	12:31:12.279	1800	1849	103	-114.8		11518.	L3SM	LTE FDD	Uplink	12:32:18.313		SERVICE_REQUEST
					4181.	12:31:12.279				-1.2		11519.	RRCSM	LTE FDD	Uplink	12:32:18.313	CCCH	RRConnectionRequest
					4182.	12:31:12.793	1800	1849	103	-117.9		11520.	RRCSM	LTE FDD	Downlink	12:32:18.350	CCCH	RRConnectionSetup
					4183.	12:31:12.793				-1.8		11521.	RRCSM	LTE FDD	Uplink	12:32:18.354	DCCH	RRConnectionSetupComplete
					4184.	12:31:13.318	1800	1849	103	-116.4		11522.	RRCSM	LTE FDD	Downlink	12:32:18.368	DCCH	UECapabilityEnquiry
					4185.	12:31:13.318				-1.9		11523.	RRCSM	LTE FDD	Uplink	12:32:18.369	DCCH	UECapabilityInformation
					4186.	12:31:13.854	1800	1849	103	-120.9		11524.	RRCSM	UMTS FDD	Uplink	12:32:18.369		INTER_RAT_HANDOVER_INFO
					4187.	12:31:13.854				-2.4		11525.	RRCSM	LTE FDD	Downlink	12:32:18.391	DCCH	SecurityModeCommand
					4188.	12:31:14.233	1800	1849	103	-120.8		11526.	RRCSM	LTE FDD	Uplink	12:32:18.392	DCCH	SecurityModeComplete
					4189.	12:31:15.673	1800	1849	103	-120.8		11527.	RRCSM	LTE FDD	Downlink	12:32:18.392	DCCH	RRConnectionReconfiguration
					4190.	12:31:16.254	1800	1849	103	-120.8		11528.	RRCSM	LTE FDD	Uplink	12:32:18.394	DCCH	RRConnectionReconfigurationComplete
					4191.	12:31:17.882	1800	1849	103	-120.8		11529.	RRCSM	LTE FDD	Downlink	12:32:18.439	DCCH	RRConnectionReconfiguration
					4192.	12:32:17.885	800	6300	436	-99.6		11530.	RRCSM	LTE FDD	Uplink	12:32:18.439	DCCH	RRConnectionReconfigurationComplete
					4193.	12:32:18.439	800	6300	436	-102.2		11531.	RRCSM	LTE FDD	Downlink	12:32:18.444	DCCH	DLInformationTransfer
					4194.	12:32:18.932	800	6300	436	-102.6		11532.	L3SM	LTE FDD	Downlink	12:32:18.444		MODIFY_EPS_BEARER_CONTEXT_REQUEST
					4195.	12:32:19.457	800	6300	436	-100.2		11533.	L3SM	LTE FDD	Uplink	12:32:18.445		MODIFY_EPS_BEARER_CONTEXT_ACCEPT
					4196.	12:32:19.756	800	6300	436	-101.3		11534.	RRCSM	LTE FDD	Uplink	12:32:18.446	DCCH	ULInformationTransfer
					4197.	12:32:20.496	800	6300	436	-110.8		11535.	RRCSM	LTE FDD	Uplink	12:32:18.810	DCCH	MeasurementReport
					4198.	12:32:21.006	800	6300	16	-108.4		11536.	RRCSM	LTE FDD	Uplink	12:32:18.810	DCCH	MeasurementReport
					4199.	12:32:21.006						11537.	RRCSM	LTE FDD	Downlink	12:32:19.593	PCCH	Paging
					4200.	12:32:21.006				-3.1		11538.	RRCSM	LTE FDD	Uplink	12:32:20.730	DCCH	MeasurementReport
					4201.	12:32:21.508	800	6300	16	-109.5		11539.	RRCSM	LTE FDD	Downlink	12:32:20.857	DCCH	RRConnectionReconfiguration
					4202.	12:32:21.508				-5.2		11540.	RRCSM	LTE FDD	Uplink	12:32:20.869	DCCH	RRConnectionReconfigurationComplete
					4203.	12:32:22.066	800	6300	16	-109.8		11541.	RRCSM	LTE FDD	Downlink	12:32:20.898	DCCH	RRConnectionReconfiguration
					4204.	12:32:22.066				-5.9		11542.	RRCSM	LTE FDD	Downlink	12:32:20.899	BCCH-SCH	SystemInformationBlockType1
					4205.	12:32:22.549	800	6300	279	-106.9		11543.	RRCSM	LTE FDD	Uplink	12:32:20.902	DCCH	RRConnectionReconfigurationComplete
					4206.	12:32:22.549				-8.1		11544.	RRCSM	LTE FDD	Downlink	12:32:20.960	DCCH	RRConnectionReconfiguration
					4207.	12:32:23.060	800	6300	279	-109.6		11545.	RRCSM	LTE FDD	Uplink	12:32:20.962	DCCH	RRConnectionReconfigurationComplete
					4208.	12:32:23.060				-7.5		11546.	RRCSM	LTE FDD	Downlink	12:32:21.026	BCCH-SCH	SystemInformation - SIB2 SIB3

Analysis:

- This call failure event occurred on short call at 10:32:18:029 time when UE was latched with LTE network.
- During the session before the call failure UE send "Service Request". Then call setup has been failed.
- During the session UE was latched with PCI 436 and RF condition RSRP -120 dBm is poor and SINR -2.4 dB was very .
- Call failed due to poor network coverage at the MO site. Insufficient signal strength in the area is causing call failures.

Phase-1 Call Attempt Failure Analysis 5 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	LAC	RAC	RXQ sub		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:27:13.585	UMTS FDD	2100	Dro	827.	12:32:58.694	-78	10	1				11686.	L3SM	GSM	Downlink	12:33:02.285	SACCH	SYSTEM_INFORMATION_TYPE_5TER
2.	12:28:51.260	GSM	900	Dro	828.	12:32:58.971					0		11687.	L3SM	GSM	Uplink	12:33:02.331	SACCH	MEASUREMENT_REPORT
3.	12:31:37.571	UMTS FDD	2100	Dro	829.	12:32:59.414	-74	10	1				11688.	L3SM	GSM	Downlink	12:33:02.765	SACCH	SYSTEM_INFORMATION_TYPE_6
4.	12:32:18.439	GSM	0	Call	830.	12:32:59.719	-72	10	1				11689.	L3SM	GSM	Uplink	12:33:02.811	SACCH	MEASUREMENT_REPORT
5.	12:33:08.185	GSM	900	Dro	831.	12:33:00.411	-70	10	1				11690.	L3SM	GSM	Downlink	12:33:03.245	SACCH	SYSTEM_INFORMATION_TYPE_5
6.	12:37:30.515	GSM	900	Call	832.	12:33:00.891	-75	10	1				11691.	L3SM	GSM	Uplink	12:33:03.291	SACCH	MEASUREMENT_REPORT
7.	12:39:09.762	UMTS FDD	2100	Call	833.	12:33:01.413	-74	10	1				11692.	L3SM	GSM	Downlink	12:33:03.725	SACCH	SYSTEM_INFORMATION_TYPE_5TER
					834.	12:33:01.879	-75	10	1				11693.	L3SM	GSM	Uplink	12:33:03.771	SACCH	MEASUREMENT_REPORT
					835.	12:33:02.516	-72	10	1				11694.	L3SM	GSM	Downlink	12:33:04.205	SACCH	SYSTEM_INFORMATION_TYPE_6
					836.	12:33:02.977	-70	10	1				11695.	L3SM	GSM	Uplink	12:33:04.251	SACCH	MEASUREMENT_REPORT
					837.	12:33:03.413	-72	10	1				11696.	L3SM	GSM	Downlink	12:33:04.685	SACCH	SYSTEM_INFORMATION_TYPE_5
					838.	12:33:03.877	-66	10	1				11697.	L3SM	GSM	Uplink	12:33:04.731	SACCH	MEASUREMENT_REPORT
					839.	12:33:04.731	-72	10	1				11698.	L3SM	GSM	Downlink	12:33:05.165	SACCH	SYSTEM_INFORMATION_TYPE_5TER
					840.	12:33:05.216	-64	10	1				11699.	L3SM	GSM	Uplink	12:33:05.211	SACCH	MEASUREMENT_REPORT
					841.	12:33:05.691					0		11700.	L3SM	GSM	Downlink	12:33:05.645	SACCH	SYSTEM_INFORMATION_TYPE_6
					842.	12:33:06.171					0		11701.	L3SM	GSM	Uplink	12:33:05.691	SACCH	MEASUREMENT_REPORT
					843.	12:33:06.337	-68	10	1				11702.	L3SM	GSM	Downlink	12:33:06.125	SACCH	SYSTEM_INFORMATION_TYPE_5
					844.	12:33:06.679	-69	10	1				11703.	L3SM	GSM	Uplink	12:33:06.171	SACCH	MEASUREMENT_REPORT
					845.	12:33:07.196	-68	10	1				11704.	L3SM	GSM	Downlink	12:33:06.605	SACCH	SYSTEM_INFORMATION_TYPE_5TER
					846.	12:33:07.611	-77	10	1				11705.	L3SM	GSM	Uplink	12:33:06.651	SACCH	MEASUREMENT_REPORT
					847.	12:33:08.045					0		11706.	L3SM	GSM	Downlink	12:33:07.085	SACCH	SYSTEM_INFORMATION_TYPE_6
					848.	12:33:08.091					0		11707.	L3SM	GSM	Uplink	12:33:07.131	SACCH	MEASUREMENT_REPORT
					849.	12:33:08.336	-70	10	1				11708.	L3SM	GSM	Downlink	12:33:07.565	SACCH	SYSTEM_INFORMATION_TYPE_5
					850.	12:33:08.728							11709.	L3SM	GSM	Uplink	12:33:07.611	SACCH	MEASUREMENT_REPORT
					851.	12:33:41.028	-48	10	1				11710.	L3SM	GSM	Downlink	12:33:07.916	DCCH	DISCONNECT
					852.	12:33:41.028					0		11711.	L3SM	GSM	Downlink	12:33:08.045	SACCH	SYSTEM_INFORMATION_TYPE_5TER
					853.	12:33:41.969	-48	10	1				11712.	L3SM	GSM	Uplink	12:33:08.091	SACCH	MEASUREMENT_REPORT
					854.	12:33:42.440	-48	10	1				11713.	L3SM	GSM	Uplink	12:33:08.185	DCCH	RELEASE
					855.	12:33:43.044	-48	10	1				11714.	L3SM	GSM	Downlink	12:33:08.336	DCCH	RELEASE_COMPLETE
					856.	12:33:43.515	-53	10	1				11715.	L3SM	GSM	Downlink	12:33:08.456	DCCH	CHANNEL_RELEASE
					857.	12:33:44.074	-56	10	1				11716.	L3SM	GSM	Downlink	12:33:08.525	SACCH	SYSTEM_INFORMATION_TYPE_6
					858.	12:33:44.457	-61	10	1				11717.	RRCSM	LTE FDD	Downlink	12:33:08.700	BCCH-BCH	MasterInformationBlock
					859.	12:33:44.928	-52	10	1				11718.	RRCSM	LTE FDD	Downlink	12:33:08.724	BCCH-SCH	SystemInformationBlockType1
					860.	12:33:45.736	-56	10	1				11719.	RRCSM	LTE FDD	Downlink	12:33:08.724	BCCH-SCH	SystemInformation - SIB5

Analysis:

- This call failure event occurred on short call at 12:33:18:185 time when UE was latched with 2G network.
- After sending the 'CM Service Request' message to the core network, the core network responded with a 'Call Proceeding' message. However, the call was disconnected with Cause (27): Destination out of order.
- During the call failure UE, was latched with ARFCN 10 and RF condition Rxlev -77 dBm is good and Rxqual 0 which is good.
- Need to check MT.

Downlink

DISCONNECT 3GPP TS 24.008 ver 15.4.0 Rel 15 (9.3.7.1)

M Protocol Discriminator (hex data: 3)
(0x3) Call control (call related SS message)

M Transaction Identifier (hex data: 8)
Ti flag: 1 (the message is sent to the side that originates the TI)
Ti value: 0

M Message Type (hex data: 25)
Message number: 37

M Cause (hex data: 02e09b)
Coding standard: Standard defined for the GSM PLMNs
Location: user

Cause (27): Destination out of order

Phase-1 Call Attempt Failure Analysis 5 From MS8 CWS MT

	Time	Band (MHz)	Ch	PCI	RSRP	SNR		System	Transf. dir.	Time	Subchannel	Message name
5496.	12:31:58.343					6.3	10490.	LTE TDD	Downlink	12:32:13.176	PCCH	Paging
5497.	12:31:59.416	2496	40148	42	-106.3		10491.	LTE TDD	Downlink	12:32:14.456	PCCH	Paging
5498.	12:31:59.416					7.8	10492.	LTE TDD	Uplink	12:32:19.788		SERVICE_REQUEST
5499.	12:32:00.416	2496	40148	42	-111.6		10493.	LTE TDD	Uplink	12:32:19.788	CCCH	RRConnectionRequest
5500.	12:32:00.416					5.5	10494.	LTE TDD	Downlink	12:32:19.868	CCCH	RRConnectionSetup
5501.	12:32:00.769	2496	40148	42	-111.6		10495.	LTE TDD	Uplink	12:32:19.873	DCCH	RRConnectionSetupComplete
5502.	12:32:01.658	2496	40148	42	-110.9		10496.	LTE TDD	Downlink	12:32:19.948	DCCH	SecurityModeCommand
5503.	12:32:01.658					8.6	10497.	LTE TDD	Uplink	12:32:19.949	DCCH	SecurityModeComplete
5504.	12:32:03.072	2496	40148	42	-104.8		10498.	LTE TDD	Downlink	12:32:19.950	DCCH	RRConnectionReconfiguration
5505.	12:32:03.072					10.7	10499.	LTE TDD	Uplink	12:32:19.955	DCCH	RRConnectionReconfigurationComplete
5506.	12:32:04.615	2496	40148	42	-114.1		10500.	LTE TDD	Downlink	12:32:20.063	DCCH	UEInformationRequest
5507.	12:32:04.615					3.3	10501.	LTE TDD	Uplink	12:32:20.063	DCCH	UEInformationResponse
5508.	12:32:05.711	2496	40148	42	-116.4		10502.	LTE TDD	Downlink	12:32:20.064	DCCH	UECapabilityEnquiry
5509.	12:32:05.711					1.8	10503.	LTE TDD	Uplink	12:32:20.065	DCCH	UECapabilityInformation
5510.	12:32:06.809	2496	40148	42	-114.1		10504.	UMTS FDD	Uplink	12:32:20.065		INTER_RAT_HANDOVER_INFO
5511.	12:32:06.809					5.1	10505.	LTE TDD	Downlink	12:32:20.065	DCCH	RRConnectionReconfiguration
5512.	12:32:08.097	2496	40148	42	-115.1		10506.	LTE TDD	Uplink	12:32:20.075	DCCH	RRConnectionReconfigurationComplete
5513.	12:32:08.097					3.7	10507.	LTE TDD	Downlink	12:32:20.153	DCCH	RRConnectionReconfiguration
5514.	12:32:08.569	2496	40148	42	-115.1		10508.	LTE TDD	Uplink	12:32:20.155	DCCH	RRConnectionReconfigurationComplete
5515.	12:32:09.347	2496	40148	42	-119.6		10509.	LTE TDD	Uplink	12:32:20.370	DCCH	MeasurementReport
5516.	12:32:09.347					0.3	10510.	LTE TDD	Downlink	12:32:20.427	DCCH	RRConnectionReconfiguration
5517.	12:32:10.709	2496	40148	42	-117.3		10511.	LTE TDD	Uplink	12:32:20.449	DCCH	RRConnectionReconfigurationComplete
5518.	12:32:10.709					-0.7	10512.	LTE TDD	Downlink	12:32:20.479	DCCH	RRConnectionReconfiguration
5519.	12:32:12.431	2496	40148	42	-114.8		10513.	LTE TDD	Downlink	12:32:20.480	BCCH-SCH	SystemInformationBlockType1
5520.	12:32:12.431					3.5	10514.	LTE TDD	Uplink	12:32:20.483	DCCH	RRConnectionReconfigurationComplete
5521.	12:32:13.428	2496	40148	42	-121.1		10515.	LTE TDD	Downlink	12:32:20.508	DCCH	RRConnectionReconfiguration
5522.	12:32:13.428					-2.8	10516.	LTE TDD	Uplink	12:32:20.520	DCCH	RRConnectionReconfigurationComplete
5523.	12:32:14.609	2496	40148	42	-121		10517.	LTE TDD	Downlink	12:32:20.539	BCCH-SCH	SystemInformation - SIB2, SIB3
5524.	12:32:14.609					-3.2	10518.	LTE TDD	Downlink	12:32:20.578	DCCH	RRConnectionReconfiguration
5525.	12:32:15.831	2496	40148	42	-122.1		10519.	LTE TDD	Uplink	12:32:20.579	DCCH	RRConnectionReconfigurationComplete
5526.	12:32:15.831					-6	10520.	LTE TDD	Downlink	12:32:20.739	BCCH-SCH	SystemInformation - SIB5
5527.	12:32:17.055	2496	40148	42	-123.1		10521.	LTE TDD	Downlink	12:32:20.855	PCCH	Paging
5528.	12:32:17.055					-7.7	10522.	LTE TDD	Downlink	12:32:21.083	DCCH	RRConnectionReconfiguration
5529.	12:32:18.415	2496	40148	42	-126.1		10523.	LTE TDD	Uplink	12:32:21.089	DCCH	RRConnectionReconfigurationComplete
5530.	12:32:18.415					-4.4	10524.	LTE TDD	Uplink	12:32:21.254	DCCH	MeasurementReport
5531.	12:32:19.997	2496	40148	42	-125.1		10525.	LTE TDD	Uplink	12:32:21.255	DCCH	MeasurementReport
5532.	12:32:19.997					-6.9	10526.	LTE TDD	Downlink	12:32:21.281	DCCH	RRConnectionReconfiguration

Analysis:

- On MT End, During the setup fail, UE was latched with PCI 42 and RF condition RSRP -125.1 dBm is and SINR -6.9 which is poor.
- Call failed at the MT end due to poor network coverage. The terminating device experienced low signal strength, leading to call failure.

Phase-1 Call Attempt Failure Analysis 6 From MS7 CWS MO

	Time	System	Serving band		Time	RxLev sub	ARFCN	LAC	RAC	RXQ sub ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:27:13.585	UMTS FDD	2100	Dro	1155.	12:37:22.973	-96	15	1	0		12879.	L3SM	GSM	Downlink	12:37:28.702	DCCH	CHANNEL_RELEASE
2.	12:28:51.260	GSM	900	Dro	1156.	12:37:23.412			1	0		12880.	L3SM	GSM	Downlink	12:37:29.707	BCCH	SYSTEM_INFORMATION_TYPE_3
3.	12:31:37.571	UMTS FDD	2100	Dro	1157.	12:37:23.906	-93	15	1	0		12881.	L3SM	GSM	Downlink	12:37:29.942	BCCH	SYSTEM_INFORMATION_TYPE_4
4.	12:32:18.439	GSM	0	Call	1158.	12:37:23.906				2		12882.	L3SM	GSM	Downlink	12:37:30.046	BCCH	SYSTEM_INFORMATION_TYPE_1
5.	12:33:08.185	GSM	900	Dro	1159.	12:37:24.412	-94	15	1	0		12883.	L3SM	GSM	Downlink	12:37:30.046	BCCH	SYSTEM_INFORMATION_TYPE_2
6.	12:37:30.515	GSM	900	Call	1160.	12:37:24.412				6		12884.	L3SM	GSM	Downlink	12:37:30.046	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
7.	12:39:09.762	UMTS FDD	2100	Call	1161.	12:37:24.696				6		12885.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					1162.	12:37:24.724	-95	15	1	0		12886.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					1163.	12:37:25.166				5		12887.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					1164.	12:37:25.412	-96	15	1	0		12888.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					1165.	12:37:25.637				7		12889.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					1166.	12:37:26.108			1	0		12890.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					1167.	12:37:26.108				4		12891.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					1168.	12:37:26.579	-95	15	1	0		12892.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_13
					1169.	12:37:26.579				6		12893.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_4
					1170.	12:37:27.050	-92	15	1	0		12894.	L3SM	GSM	Downlink	12:37:30.047	BCCH	SYSTEM_INFORMATION_TYPE_3
					1171.	12:37:27.050				5		12895.	L3SM	GSM	Downlink	12:37:30.156	CCCH	IMMEDIATE_ASSIGNMENT
					1172.	12:37:27.520	-94	15	1	0		12896.	L3SM	GSM	Downlink	12:37:30.188	BCCH	SYSTEM_INFORMATION_TYPE_13
					1173.	12:37:27.520				6		12897.	MACSM	GSM	Uplink	12:37:30.248	PACCH	PACKET_RESOURCE_REQUEST
					1174.	12:37:27.995	-94	15	1	0		12898.	MACSM	GSM	Downlink	12:37:30.368	PACCH	PACKET_UPLINK_ASSIGNMENT
					1175.	12:37:28.462				5		12899.	MACSM	GSM	Uplink	12:37:30.368	PACCH	PACKET_UPLINK_DUMMY_CONTROL_BLOCK
					1176.	12:37:28.614	-95	15	1	0		12900.	MACSM	GSM	Downlink	12:37:30.621	PACCH	PACKET_DOWNLINK_ASSIGNMENT
					1177.	12:37:29.194			1	0		12901.	MACSM	GSM	Downlink	12:37:30.708	PACCH	PACKET_POWER_CONTROL/TIMING_ADVANCE
					1178.	12:37:29.194						12902.	MACSM	GSM	Downlink	12:37:30.805	PACCH	PACKET_UPLINK_ACK/NACK
					1179.	12:37:30.515	-95	15	1	0		12903.	MACSM	GSM	Uplink	12:37:30.847	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK
					1180.	12:37:30.861	-84	1	1	0		12904.	MACSM	GSM	Uplink	12:37:30.985	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK
					1181.	12:37:31.414	-82	1	1	0		12905.	MACSM	GSM	Downlink	12:37:31.027	PACCH	PACKET_UPLINK_ACK/NACK
					1182.	12:37:32.055	-82	1	1	0		12906.	MACSM	GSM	Uplink	12:37:31.124	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK
					1183.	12:37:32.412	-81	1	1	0		12907.	MACSM	GSM	Downlink	12:37:31.128	PACCH	PACKET_UPLINK_ACK/NACK
					1184.	12:37:33.020	-81	1	1	0		12908.	MACSM	GSM	Downlink	12:37:31.188	PACCH	PACKET_UPLINK_ACK/NACK
					1185.	12:37:33.504	-81	1	1	0		12909.	MACSM	GSM	Downlink	12:37:31.225	PACCH	PACKET_UPLINK_ACK/NACK
					1186.	12:37:34.119	-82	1	1	0		12910.	MACSM	GSM	Downlink	12:37:31.267	PACCH	PACKET_UPLINK_ACK/NACK
					1187.	12:37:34.428	-82	1	1	0		12911.	MACSM	GSM	Uplink	12:37:31.304	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK
					1188.	12:37:35.079	-82	1	1	0		12912.	MACSM	GSM	Uplink	12:37:31.447	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK

Analysis:

- This call failure event occurred on short call at 12:37:30:515 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Setup" message. After that call setup has been failed.
- During the call failure UE, was latched with ARFCN 15 and RF condition Rxlev -92 dBm is good and Rxqual 6 which is poor.
- As per the analysis call failure happened due to poor quality of the network.

Phase-1 Call Attempt Failure Analysis 7 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:27:13.585	UMTS FDD	2100	Dro	3213.		12:39:03.775	10690	202	-25.1		13268.	RRCSM	UMTS FDD	Uplink	12:38:49.252	DCCH	INITIAL_DIRECT_TRANSFER
2.	12:28:51.260	GSM	900	Dro	3214.	-109	12:39:04.360	10690	202			13269.	L3SM	UMTS FDD	Uplink	12:38:49.252	DCCH	ROUTING_AREA_UPDATE_REQUEST
3.	12:31:37.571	UMTS FDD	2100	Dro	3215.		12:39:04.360	10690	202	-23.4		13270.	RRCSM	UMTS FDD	Downlink	12:38:49.555	DCCH	MEASUREMENT_CONTROL
4.	12:32:18.439	GSM	0	Call	3216.	-109.1	12:39:04.787	10690	202			13271.	RRCSM	UMTS FDD	Downlink	12:38:49.575	DCCH	SECURITY_MODE_COMMAND
5.	12:33:08.185	GSM	900	Dro	3217.		12:39:04.787	10690	202	-23.8		13272.	RRCSM	UMTS FDD	Uplink	12:38:49.575	DCCH	SECURITY_MODE_COMPLETE
6.	12:37:30.515	GSM	900	Call	3218.	-112.1	12:39:05.398	10690	202			13273.	RRCSM	UMTS FDD	Uplink	12:38:49.646	DCCH	UPLINK_DIRECT_TRANSFER
7.	12:39:09.762	UMTS FDD	2100	Call	3219.		12:39:05.398	10690	202	-25.6		13274.	L3SM	UMTS FDD	Uplink	12:38:49.646	DCCH	SETUP
					3220.	-112.4	12:39:06.068	10690	202			13275.	RRCSM	UMTS FDD	Downlink	12:38:49.675	DCCH	DOWNLINK_DIRECT_TRANSFER
					3221.		12:39:06.068	10690	202	-24.9		13276.	L3SM	UMTS FDD	Downlink	12:38:49.675	DCCH	TMSI_REALLOCATION_COMMAND
					3222.	-110.9	12:39:06.332	10690	202			13277.	RRCSM	UMTS FDD	Uplink	12:38:49.676	DCCH	UPLINK_DIRECT_TRANSFER
					3223.		12:39:06.332	10690	202	-22.2		13278.	L3SM	UMTS FDD	Uplink	12:38:49.676	DCCH	TMSI_REALLOCATION_COMPLETE
					3224.	-111	12:39:06.840	10690	202			13279.	RRCSM	UMTS FDD	Uplink	12:38:49.798	DCCH	MEASUREMENT_REPORT
					3225.		12:39:06.840	10690	202	-22		13280.	RRCSM	UMTS FDD	Downlink	12:38:49.815	DCCH	DOWNLINK_DIRECT_TRANSFER
					3226.	-110.9	12:39:07.412	10690	202			13281.	L3SM	UMTS FDD	Downlink	12:38:49.815	DCCH	CALL_PROCEEDING
					3227.		12:39:07.412	10690	202	-23.9		13282.	RRCSM	UMTS FDD	Uplink	12:38:51.281	DCCH	MEASUREMENT_REPORT
					3228.	-113.7	12:39:08.039	10690	202			13283.	RRCSM	UMTS FDD	Uplink	12:38:53.799	DCCH	MEASUREMENT_REPORT
					3229.		12:39:08.039	10690	202	-24.8		13284.	RRCSM	UMTS FDD	Downlink	12:38:54.585	DCCH	DOWNLINK_DIRECT_TRANSFER
					3230.	-113.3	12:39:08.457	10690	202			13285.	L3SM	UMTS FDD	Downlink	12:38:54.585	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					3231.	-110.4	12:39:09.057	10690	202			13286.	RRCSM	UMTS FDD	Uplink	12:38:54.622	DCCH	UPLINK_DIRECT_TRANSFER
					3232.		12:39:09.057	10690	202	-24.5		13287.	L3SM	UMTS FDD	Uplink	12:38:54.622	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					3233.	-118.6	12:39:09.762	10690	202			13288.	RRCSM	UMTS FDD	Uplink	12:38:54.789	DCCH	MEASUREMENT_REPORT
					3234.		12:39:09.762	10690	202	-24.8		13289.	RRCSM	UMTS FDD	Downlink	12:38:54.815	DCCH	SECURITY_MODE_COMMAND
					3235.	-118.6	12:39:10.297	10690	202			13290.	RRCSM	UMTS FDD	Uplink	12:38:54.815	DCCH	SECURITY_MODE_COMPLETE
					3236.		12:39:10.297	10690	202	-24.8		13291.	RRCSM	UMTS FDD	Downlink	12:38:55.295	DCCH	DOWNLINK_DIRECT_TRANSFER
					3237.	-118.6	12:39:10.706	10690	202			13292.	L3SM	UMTS FDD	Downlink	12:38:55.295	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					3238.		12:39:10.706	10690	202	-24.8		13293.	RRCSM	UMTS FDD	Uplink	12:38:55.297	DCCH	UPLINK_DIRECT_TRANSFER
					3239.	-118.6	12:39:11.278	10690	202			13294.	L3SM	UMTS FDD	Uplink	12:38:55.297	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					3240.		12:39:11.278	10690	202	-24.8		13295.	RRCSM	UMTS FDD	Uplink	12:38:55.299	DCCH	UPLINK_DIRECT_TRANSFER
					3241.	-95.2	12:39:11.794	10690	220			13296.	L3SM	UMTS FDD	Uplink	12:38:55.299	DCCH	SERVICE_REQUEST
					3242.		12:39:11.794	10690	220	-12.6		13297.	RRCSM	UMTS FDD	Downlink	12:38:55.405	DCCH	DOWNLINK_DIRECT_TRANSFER
					3243.	-101.4	12:39:12.306	10690	220			13298.	L3SM	UMTS FDD	Downlink	12:38:55.405	DCCH	SERVICE_ACCEPT
					3244.		12:39:12.306	10690	220	-15.6		13299.	RRCSM	UMTS FDD	Downlink	12:38:55.565	DCCH	RADIO_BEARER_SETUP
					3245.	-98.2	12:39:12.796	10690	220			13300.	RRCSM	UMTS FDD	Uplink	12:38:55.597	DCCH	MEASUREMENT_REPORT
					3246.		12:39:12.796	10690	220	-10.6		13301.	RRCSM	UMTS FDD	Uplink	12:38:55.629	DCCH	MEASUREMENT REPORT

Analysis:

- This call failure event occurred on short call at 12:39:09:762 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the failure, UE was latched with PSC 202 and RF condition RSCP -118 dBm poor but Ec/No -24.8 dB are very poor.
- Call failed due to poor network coverage and quality at the MO site. Low signal strength and degraded network quality are contributing to call failures.

Phase-1 Call Drop Analysis 1 From MS9 Airtel MO

	Time	System	Serving band		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:50:21.575	GSM	900		2725.	12:42:55.381							10041.	RRCSM	UMTS FDD	Downlink	12:49:56.843	DCCH	DOWNLINK_DIRECT_TRANSFER
					2726.	12:42:55.620	-67	97	60	50000	1		10042.	L3SM	UMTS FDD	Downlink	12:49:56.843	DCCH	ALERTING
					2727.	12:42:56.263	-70	97	60	50000	1		10043.	RRCSM	UMTS FDD	Downlink	12:49:57.083	DCCH	DOWNLINK_DIRECT_TRANSFER
					2728.	12:42:56.702	-73	97	60	50000	1		10044.	L3SM	UMTS FDD	Downlink	12:49:57.083	DCCH	CONNECT
					2729.	12:42:57.239	-73	97	60	50000	1		10045.	RRCSM	UMTS FDD	Uplink	12:49:57.084	DCCH	UPLINK_DIRECT_TRANSFER
					2730.	12:42:57.862	-72	97	60	50000	1		10046.	L3SM	UMTS FDD	Uplink	12:49:57.084	DCCH	CONNECT_ACKNOWLEDGE
					2731.	12:42:58.305	-72	97	60	50000	1		10047.	RRCSM	UMTS FDD	Downlink	12:49:57.283	DCCH	MEASUREMENT_CONTROL
					2732.	12:42:58.854	-73	97	60	50000	1		10048.	RRCSM	UMTS FDD	Downlink	12:49:57.363	DCCH	SECURITY_MODE_COMMAND
					2733.	12:42:59.311	-73	97	60	50000	1		10049.	RRCSM	UMTS FDD	Uplink	12:49:57.364	DCCH	SECURITY_MODE_COMPLETE
					2734.	12:43:00.013	-73	97	60	50000	1		10050.	RRCSM	UMTS FDD	Uplink	12:49:57.384	DCCH	MEASUREMENT_REPORT
					2735.	12:43:00.423	-73	97	60	50000	1		10051.	RRCSM	UMTS FDD	Uplink	12:49:57.634	DCCH	MEASUREMENT_REPORT
					2736.	12:43:01.088	-73	97	60	50000	1		10052.	RRCSM	UMTS FDD	Downlink	12:49:57.763	DCCH	DOWNLINK_DIRECT_TRANSFER
					2737.	12:50:09.517	-92	93	60	60000	1		10053.	L3SM	UMTS FDD	Downlink	12:49:57.763	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					2738.	12:50:09.517					7		10054.	RRCSM	UMTS FDD	Uplink	12:49:57.766	DCCH	UPLINK_DIRECT_TRANSFER
					2739.	12:50:10.061	-92	93	60	60000	1		10055.	L3SM	UMTS FDD	Uplink	12:49:57.766	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					2740.	12:50:10.061					6		10056.	RRCSM	UMTS FDD	Downlink	12:49:58.043	DCCH	DOWNLINK_DIRECT_TRANSFER
					2741.	12:50:10.703	-93	93	60	60000	1		10057.	L3SM	UMTS FDD	Downlink	12:49:58.043	DCCH	GMM_INFO
					2742.	12:50:10.703					7		10058.	RRCSM	UMTS FDD	Downlink	12:49:58.203	DCCH	SIGNALLING_CONNECTION_RELEASE
					2743.	12:50:11.363	-92	93	60	60000	1		10059.	RRCSM	UMTS FDD	Uplink	12:50:02.626	DCCH	MEASUREMENT_REPORT
					2744.	12:50:11.917	-93	93	60	60000	1		10060.	RRCSM	UMTS FDD	Downlink	12:50:02.923	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					2745.	12:50:12.877	-92	93	60	60000	1		10061.	RRCSM	UMTS FDD	Uplink	12:50:02.965	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE
					2746.	12:50:13.421	-93	93	60	60000	1		10062.	RRCSM	UMTS FDD	Downlink	12:50:03.523	DCCH	MEASUREMENT_CONTROL
					2747.	12:50:13.837	-92	93	60	60000	1		10063.	RRCSM	UMTS FDD	Uplink	12:50:06.621	DCCH	MEASUREMENT_REPORT
					2748.	12:50:14.317	-92	93	60	60000	1		10064.	RRCSM	UMTS FDD	Uplink	12:50:08.372	DCCH	MEASUREMENT_REPORT
					2749.	12:50:14.903	-92	93	60	60000	1		10065.	RRCSM	UMTS FDD	Downlink	12:50:08.683	DCCH	HANDOVER_FROM_UTRAN_COMMAND_GSM
					2750.	12:50:15.422	-92	93	60	60000	1		10066.	L3SM	UMTS FDD	Downlink	12:50:08.683	DCCH	HANDOVER_COMMAND
					2751.	12:50:15.844	-94	93	60	60000	1		10067.	L3SM	GSM	Downlink	12:50:08.700	DCCH	HANDOVER_COMMAND
					2752.	12:50:16.422	-94	93	60	60000	1		10068.	L3SM	GSM	Downlink	12:50:08.903	DCCH	PHYSICAL_INFORMATION
					2753.	12:50:16.980	-94	93	60	60000	1		10069.	L3SM	GSM	Uplink	12:50:08.903	DCCH	HANDOVER_COMPLETE
					2754.	12:50:17.351	-94	93	60	60000	1		10070.	L3SM	GSM	Downlink	12:50:08.963	DCCH	PHYSICAL_INFORMATION
					2755.	12:50:17.741	-93	93	60	60000	1		10071.	L3SM	GSM	Uplink	12:50:09.391	DCCH	GPRS_SUSPENSION_REQUEST
					2756.	12:50:18.422	-94	93	60	60000	1		10072.	L3SM	GSM	Downlink	12:50:09.471	SACCH	SYSTEM_INFORMATION_TYPE_5
					2757.	12:50:18.844	-93	93	60	60000	1		10073.	L3SM	GSM	Uplink	12:50:09.517	SACCH	MEASUREMENT_REPORT
					2758.	12:50:19.423	-94	93	60	60000	1		10074.	L3SM	GSM	Uplink	12:50:09.997	SACCH	MEASUREMENT_REPORT
					2759.	12:50:19.984	-93	93	60	60000	1		10075.	L3SM	GSM	Uplink	12:50:10.477	SACCH	MEASUREMENT_REPORT
					2760.	12:50:20.557	-93	93	60	60000	1		10076.	L3SM	GSM	Downlink	12:50:10.911	SACCH	SYSTEM_INFORMATION_TYPE_5
					2761.	12:50:21.101	-94	93	60	60000	1		10077.	L3SM	GSM	Uplink	12:50:10.957	SACCH	MEASUREMENT_REPORT

Analysis:

- This call drop event occurred on long call at 12:50:21:575 time when UE was latched with 2G network.
- After getting Alerting message at 12:49:56:843 time than Call drop happened.
- During the session UE was latched with ARFCN 93 and RF condition Rx lev -92 dBm is good and Rx qual 6 dB was very poor.
- As per the Analysis the call setup drop event occurred due to poor quality in the network.

Phase-2 Call Drop & Call Attempt Failure Airtel , CWS Summary

Call Attempt Failure cause from Airtel	Count
Total Call Attempt Failure	5
Poor Coverage	3
Poor Quality	2

Call Attempt Failure cause from CWS	Count
Total Call Attempt Failure	6
Poor Coverage	2
Poor Quality	2
Network End	2

Call Drop cause from Airtel	Count
Total Call Drop	3
Poor Coverage	3

Call Drop cause from CWS	Count
Total Call Drop	1
Poor Quality	1

Phase-2 Call Attempt Failure Analysis 1 From MS5 Airtel MO

	Time	System	Serving band		1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name ▲
1.	11:02:40.325	UMTS FDD	2100	Dro	3537, -105.7	11:02:33.150	10588	88		13829.	RRCSM	UMTS FDD	Downlink	11:02:37.084	DCCH	ACTIVE_SET_UPDATE
2.	11:03:30.000	UMTS FDD	2100	Nor	3538,	11:02:33.150	10588	88	-13.3	13830.	RRCSM	UMTS FDD	Uplink	11:02:37.126	DCCH	ACTIVE_SET_UPDATE_COMPLETE
3.	11:04:30.556	LTE FDD	800	Tim	3539, -106.2	11:02:33.634	10588	88		13831.	RRCSM	UMTS FDD	Downlink	11:02:37.485	DCCH	MEASUREMENT_CONTROL
4.	11:20:46.863	UMTS FDD	900	Dro	3540,	11:02:33.634	10588	485	-14.2	13832.	RRCSM	UMTS FDD	Downlink	11:02:37.644	DCCH	MEASUREMENT_CONTROL
5.	11:44:43.010	UMTS FDD	900	Call	3541, -106.6	11:02:34.367	10588	121		13833.	RRCSM	UMTS FDD	Uplink	11:02:37.646	DCCH	MEASUREMENT_REPORT
					3542,	11:02:34.367	10588	121	-15.5	13834.	RRCSM	UMTS FDD	Uplink	11:02:37.675	DCCH	MEASUREMENT_REPORT
					3543, -107.5	11:02:34.845	10588	88		13835.	RRCSM	UMTS FDD	Downlink	11:02:37.684	DCCH	ACTIVE_SET_UPDATE
					3544,	11:02:34.845	10588	88	-15.6	13836.	RRCSM	UMTS FDD	Uplink	11:02:37.726	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					3545, -105.9	11:02:35.354	10588	88		13837.	RRCSM	UMTS FDD	Downlink	11:02:38.204	DCCH	MEASUREMENT_CONTROL
					3546,	11:02:35.354	10588	88	-14.9	13838.	RRCSM	UMTS FDD	Downlink	11:02:38.364	DCCH	MEASUREMENT_CONTROL
					3547, -112.3	11:02:35.948	10588	485		13839.	RRCSM	UMTS FDD	Downlink	11:02:38.404	DCCH	ACTIVE_SET_UPDATE
					3548,	11:02:35.948	10588	485	-18.4	13840.	RRCSM	UMTS FDD	Uplink	11:02:38.446	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					3549, -113.2	11:02:36.406	10588	485		13841.	RRCSM	UMTS FDD	Uplink	11:02:38.491	DCCH	MEASUREMENT_REPORT
					3550,	11:02:36.406	10588	485	-17.4	13842.	RRCSM	UMTS FDD	Uplink	11:02:38.595	DCCH	MEASUREMENT_REPORT
					3551, -110.7	11:02:36.977	10588	121		13843.	RRCSM	UMTS FDD	Downlink	11:02:38.804	DCCH	MEASUREMENT_CONTROL
					3552,	11:02:36.977	10588	121	-16	13844.	RRCSM	UMTS FDD	Downlink	11:02:39.004	DCCH	MEASUREMENT_CONTROL
					3553, -113	11:02:37.362	10588	121		13845.	RRCSM	UMTS FDD	Downlink	11:02:39.124	DCCH	SECURITY_MODE_COMMAND
					3554,	11:02:37.362	10588	121	-20.2	13846.	RRCSM	UMTS FDD	Uplink	11:02:39.125	DCCH	SECURITY_MODE_COMPLETE
					3555, -113	11:02:38.055	10588	485		13847.	RRCSM	UMTS FDD	Uplink	11:02:39.365	DCCH	UPLINK_DIRECT_TRANSFER
					3556,	11:02:38.055	10588	485	-18.2	13848.	L3SM	UMTS FDD	Uplink	11:02:39.365	DCCH	ACTIVATE_PDP_CONTEXT_REQUEST
					3557, -112.5	11:02:38.345	10588	121		13849.	RRCSM	UMTS FDD	Downlink	11:02:39.444	DCCH	ACTIVE_SET_UPDATE
					3558,	11:02:38.345	10588	121	-16.3	13850.	RRCSM	UMTS FDD	Uplink	11:02:39.486	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					3559, -110.8	11:02:38.952	10588	88		13851.	RRCSM	UMTS FDD	Uplink	11:02:39.633	DCCH	MEASUREMENT_REPORT
					3560,	11:02:38.952	10588	88	-17.7	13852.	RRCSM	UMTS FDD	Uplink	11:02:39.718	DCCH	MEASUREMENT_REPORT
					3561, -118	11:02:39.476	10588	88		13853.	RRCSM	UMTS FDD	Downlink	11:02:39.844	DCCH	MEASUREMENT_CONTROL
					3562,	11:02:39.476	10588	88	-19.6	13854.	RRCSM	UMTS FDD	Uplink	11:02:40.079	DCCH	MEASUREMENT_REPORT
					3563, -114.9	11:02:40.054	10588	88		13855.	RRCSM	UMTS FDD	Downlink	11:02:40.164	DCCH	MEASUREMENT_CONTROL
					3564,	11:02:40.054	10588	88	-16.7	13856.	RRCSM	UMTS FDD	Downlink	11:02:40.204	DCCH	ACTIVE_SET_UPDATE
					3565, -108.5	11:02:40.394	10588	23		13857.	RRCSM	UMTS FDD	Uplink	11:02:40.246	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					3566,	11:02:40.394	10588	23	-10.1	13858.	RRCSM	UMTS FDD	Downlink	11:02:40.324	DCCH	DOWNLINK_DIRECT_TRANSFER
					3567, -107.7	11:02:40.988	10588	23		13859.	L3SM	UMTS FDD	Downlink	11:02:40.324	DCCH	DISCONNECT
					3568,	11:02:40.988	10588	23	-11.3	13860.	RRCSM	UMTS FDD	Uplink	11:02:40.325	DCCH	UPLINK_DIRECT_TRANSFER
					3569, -109.2	11:02:41.455	10588	23		13861.	L3SM	UMTS FDD	Uplink	11:02:40.325	DCCH	RELEASE
					3570,	11:02:41.455	10588	23	-12	13862.	RRCSM	UMTS FDD	Uplink	11:02:40.358	DCCH	MEASUREMENT_REPORT
					3571, -110.3	11:02:41.977	10588	23		13863.	RRCSM	UMTS FDD	Downlink	11:02:40.644	DCCH	MEASUREMENT_CONTROL
					3572,	11:02:41.977	10588	23	-13.5	13864.	RRCSM	UMTS FDD	Downlink	11:02:40.804	DCCH	MEASUREMENT_CONTROL
					3573, -111.1	11:02:42.717	10588	23		13865.	RRCSM	UMTS FDD	Downlink	11:02:40.844	DCCH	ACTIVE_SET_UPDATE

Analysis:

- This call failure event occurred on short call at 11:02:40:325 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 88 and RF condition RSCP -110.8 dBm and Ec/No -17.7 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 2 From MS5 Airtel MO

	Time	System	Serving band		1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name ▲
1.	11:02:40.325	UMTS FDD	2100	Dro	3654.	11:03:23.221	10588	88	-9.6	14140.	RRCSM	UMTS FDD	Downlink	11:03:19.320	DCCH	RADIO_BEARER_SETUP
2.	11:03:30.000	UMTS FDD	2100	No	3655.	11:03:23.724	10588	88		14141.	RRCSM	UMTS FDD	Uplink	11:03:19.673	DCCH	RADIO_BEARER_SETUP_COMPLETE
3.	11:04:30.556	LTE FDD	800	Tim	3656.	11:03:23.724	10588	88	-12.5	14142.	RRCSM	UMTS FDD	Downlink	11:03:19.961	DCCH	RADIO_BEARER_RECONFIGURATION
4.	11:20:46.863	UMTS FDD	900	Dro	3657.	11:03:24.221	10588	88		14143.	RRCSM	UMTS FDD	Uplink	11:03:20.003	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
5.	11:44:43.010	UMTS FDD	900	Call	3658.	11:03:24.221	10588	88	-9.6	14144.	RRCSM	UMTS FDD	Downlink	11:03:20.041	DCCH	DOWNLINK_DIRECT_TRANSFER
					3659.	11:03:24.924	10588	88		14145.	L3SM	UMTS FDD	Downlink	11:03:20.041	DCCH	PROGRESS
					3660.	11:03:24.924	10588	88	-12	14146.	RRCSM	UMTS FDD	Downlink	11:03:20.281	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					3661.	11:03:25.445	10588	88		14147.	RRCSM	UMTS FDD	Uplink	11:03:20.323	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE
					3662.	11:03:25.445	10588	88	-12.4	14148.	RRCSM	UMTS FDD	Downlink	11:03:21.201	DCCH	MEASUREMENT_CONTROL
					3663.	11:03:25.885	10588	88		14149.	RRCSM	UMTS FDD	Downlink	11:03:22.321	DCCH	SECURITY_MODE_COMMAND
					3664.	11:03:25.885	10588	88	-13.4	14150.	RRCSM	UMTS FDD	Uplink	11:03:22.321	DCCH	SECURITY_MODE_COMPLETE
					3665.	11:03:26.224	10588	88		14151.	RRCSM	UMTS FDD	Downlink	11:03:22.761	DCCH	DOWNLINK_DIRECT_TRANSFER
					3666.	11:03:26.224	10588	88	-16.8	14152.	L3SM	UMTS FDD	Downlink	11:03:22.761	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					3667.	11:03:27.051	10588	88		14153.	RRCSM	UMTS FDD	Uplink	11:03:22.763	DCCH	UPLINK_DIRECT_TRANSFER
					3668.	11:03:27.051	10588	88	-16.4	14154.	L3SM	UMTS FDD	Uplink	11:03:22.763	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					3669.	11:03:27.424	10588	88		14155.	RRCSM	UMTS FDD	Uplink	11:03:22.765	DCCH	UPLINK_DIRECT_TRANSFER
					3670.	11:03:27.424	10588	88	-16.3	14156.	L3SM	UMTS FDD	Uplink	11:03:22.765	DCCH	SERVICE_REQUEST
					3671.	11:03:28.036	10588	88		14157.	RRCSM	UMTS FDD	Downlink	11:03:23.040	DCCH	DOWNLINK_DIRECT_TRANSFER
					3672.	11:03:28.036	10588	88	-11.4	14158.	L3SM	UMTS FDD	Downlink	11:03:23.040	DCCH	GMM_INFO
					3673.	11:03:28.380	10588	88		14159.	RRCSM	UMTS FDD	Downlink	11:03:23.121	DCCH	DOWNLINK_DIRECT_TRANSFER
					3674.	11:03:29.051	10588	88		14160.	L3SM	UMTS FDD	Downlink	11:03:23.121	DCCH	SERVICE_ACCEPT
					3675.	11:03:29.051	10588	88	-11	14161.	RRCSM	UMTS FDD	Downlink	11:03:23.361	DCCH	RADIO_BEARER_SETUP
					3676.	11:03:29.471	10588	88		14162.	RRCSM	UMTS FDD	Uplink	11:03:23.723	DCCH	RADIO_BEARER_SETUP_COMPLETE
					3677.	11:03:29.471	10588	88	-18.6	14163.	RRCSM	UMTS FDD	Downlink	11:03:24.000	DCCH	DOWNLINK_DIRECT_TRANSFER
					3678.	11:03:30.211	10588	88		14164.	L3SM	UMTS FDD	Downlink	11:03:24.000	DCCH	MODIFY_PDP_CONTEXT_REQUEST
					3679.	11:03:30.211	10588	88	-10.8	14165.	RRCSM	UMTS FDD	Uplink	11:03:24.002	DCCH	UPLINK_DIRECT_TRANSFER
					3680.	11:03:30.683	10588	88		14166.	L3SM	UMTS FDD	Uplink	11:03:24.002	DCCH	MODIFY_PDP_CONTEXT_ACCEPT
					3681.	11:03:30.683	10588	88	-13	14167.	RRCSM	UMTS FDD	Downlink	11:03:25.320	DCCH	RADIO_BEARER_RECONFIGURATION
					3682.	11:03:36.561	10588	88		14168.	RRCSM	UMTS FDD	Uplink	11:03:25.713	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
					3683.	11:03:36.561	10588	88	-22.4	14169.	RRCSM	UMTS FDD	Downlink	11:03:26.720	DCCH	DOWNLINK_DIRECT_TRANSFER
					3684.	11:03:37.161	10562	88		14170.	L3SM	UMTS FDD	Downlink	11:03:26.720	DCCH	PROGRESS
					3685.	11:03:37.161	10562	88	-15.3	14171.	RRCSM	UMTS FDD	Uplink	11:03:26.884	DCCH	MEASUREMENT_REPORT
					3686.	11:03:38.129	10562	88		14172.	RRCSM	UMTS FDD	Uplink	11:03:29.795	DCCH	UPLINK_DIRECT_TRANSFER
					3687.	11:03:38.129	10562	88	-22.4	14173.	L3SM	UMTS FDD	Uplink	11:03:29.795	DCCH	DISCONNECT
					3688.	11:03:38.712	10562	88		14174.	RRCSM	UMTS FDD	Downlink	11:03:30.000	DCCH	DOWNLINK_DIRECT_TRANSFER
					3689.	11:03:38.712	10562	88	-20.7	14175.	L3SM	UMTS FDD	Downlink	11:03:30.000	DCCH	RELEASE
					3690.	11:03:39.160	10562	88		14176.	RRCSM	UMTS FDD	Uplink	11:03:30.001	DCCH	UPLINK_DIRECT_TRANSFER

Analysis:

- This call failure event occurred on short call at 11:03:30:000 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 88 and RF condition RSCP -119.5 dBm and Ec/No -18.6 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 3 From MS5 Airtel MO

	Time	System	Serving band		1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	11:02:40.325	UMTS FDD	2100	Dro	3685.		11:03:37.161	10562	88	-15.3	14355.	RRCSM	UMTS FDD	Downlink	11:04:19.767	DCCH	MEASUREMENT_CONTROL
2.	11:03:30.000	UMTS FDD	2100	Noi	3686.	-128	11:03:38.129	10562	88		14356.	RRCSM	UMTS FDD	Downlink	11:04:19.807	DCCH	DOWNLINK_DIRECT_TRANSFER
3.	11:04:30.556	LTE FDD	800	Tim	3687.		11:03:38.129	10562	88	-22.4	14357.	L3SM	UMTS FDD	Downlink	11:04:19.807	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
4.	11:20:46.863	UMTS FDD	900	Dro	3688.	-123	11:03:38.712	10562	88		14358.	RRCSM	UMTS FDD	Uplink	11:04:19.868	DCCH	MEASUREMENT_REPORT
5.	11:44:43.010	UMTS FDD	900	Call	3689.		11:03:38.712	10562	88	-20.7	14359.	RRCSM	UMTS FDD	Uplink	11:04:19.958	DCCH	UPLINK_DIRECT_TRANSFER
					3690.	-129.3	11:03:39.160	10562	88		14360.	L3SM	UMTS FDD	Uplink	11:04:19.958	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					3691.		11:03:39.160	10562	88	-23.7	14361.	RRCSM	UMTS FDD	Downlink	11:04:20.077	DCCH	SECURITY_MODE_COMMAND
					3692.	-122.7	11:03:39.729	10562	88		14362.	RRCSM	UMTS FDD	Uplink	11:04:20.077	DCCH	SECURITY_MODE_COMPLETE
					3693.		11:03:39.729	10562	88	-19.9	14363.	RRCSM	UMTS FDD	Uplink	11:04:20.118	DCCH	MEASUREMENT_REPORT
					3694.	-126.5	11:03:40.671	10562	88		14364.	RRCSM	UMTS FDD	Downlink	11:04:20.307	DCCH	RADIO_BEARER_SETUP
					3695.		11:03:40.671	10562	88	-23.6	14365.	RRCSM	UMTS FDD	Uplink	11:04:20.664	DCCH	RADIO_BEARER_SETUP_COMPLETE
					3696.	-126	11:03:41.371	10562	88		14366.	RRCSM	UMTS FDD	Downlink	11:04:20.897	DCCH	MEASUREMENT_CONTROL
					3697.		11:03:41.371	10562	88	-22.3	14367.	RRCSM	UMTS FDD	Downlink	11:04:20.937	DCCH	MEASUREMENT_CONTROL
					3698.	-108.3	11:04:22.208	10562	121		14368.	RRCSM	UMTS FDD	Downlink	11:04:21.017	DCCH	RADIO_BEARER_RECONFIGURATION
					3699.		11:04:22.208	10562	121	-8.9	14369.	RRCSM	UMTS FDD	Uplink	11:04:21.060	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
					3700.	-111.1	11:04:22.581	10562	121		14370.	RRCSM	UMTS FDD	Uplink	11:04:22.182	DCCH	MEASUREMENT_REPORT
					3701.		11:04:22.581	10562	121	-12.1	14371.	RRCSM	UMTS FDD	Uplink	11:04:22.208	DCCH	MEASUREMENT_REPORT
					3702.	-107.8	11:04:23.082	10562	121		14372.	RRCSM	UMTS FDD	Uplink	11:04:22.220	DCCH	MEASUREMENT_REPORT
					3703.		11:04:23.082	10562	121	-9.4	14373.	RRCSM	UMTS FDD	Uplink	11:04:23.401	DCCH	MEASUREMENT_REPORT
					3704.	-111.9	11:04:23.746	10562	121		14374.	RRCSM	UMTS FDD	Downlink	11:04:23.617	DCCH	ACTIVE_SET_UPDATE
					3705.		11:04:23.746	10562	121	-11.6	14375.	RRCSM	UMTS FDD	Uplink	11:04:23.637	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					3706.	-114.7	11:04:24.339	10562	121		14376.	RRCSM	UMTS FDD	Downlink	11:04:23.817	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					3707.		11:04:24.339	10562	121	-12.6	14377.	RRCSM	UMTS FDD	Uplink	11:04:23.859	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE
					3708.	-113.5	11:04:24.908	10562	121		14378.	RRCSM	UMTS FDD	Downlink	11:04:24.137	DCCH	MEASUREMENT_CONTROL
					3709.		11:04:24.908	10562	121	-12.7	14379.	RRCSM	UMTS FDD	Downlink	11:04:24.857	DCCH	RRC_CONNECTION_RELEASE
					3710.	-87	11:05:02.558	3050	121		14380.	RRCSM	UMTS FDD	Uplink	11:04:24.857	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					3711.		11:05:02.558	3050	121	-16.2	14381.	RRCSM	UMTS FDD	Downlink	11:04:24.897	DCCH	RRC_CONNECTION_RELEASE
					3712.	-87	11:05:03.055	3050	121		14382.	RRCSM	UMTS FDD	Uplink	11:04:24.898	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					3713.		11:05:03.055	3050	121	-9.2	14383.	RRCSM	LTE FDD	Downlink	11:04:25.091	BCCH-BCH	MasterInformationBlock
					3714.	-87	11:05:03.264	3050	121		14384.	RRCSM	LTE FDD	Downlink	11:04:25.105	BCCH-SCH	SystemInformationBlockType1
					3715.		11:05:03.264	3050	121	-13.2	14385.	RRCSM	LTE FDD	Downlink	11:04:25.140	BCCH-SCH	SystemInformation - SIB2,SIB3
					3716.	-87	11:05:03.985	3050	121		14386.	L3SM	LTE FDD	Uplink	11:04:25.161		TRACKING_AREA_UPDATE_REQUEST
					3717.		11:05:03.985	3050	121	-11.9	14387.	RRCSM	LTE FDD	Uplink	11:04:25.161	CCCH	RRCConnectionRequest
					3718.	-87	11:05:04.261	3050	121		14388.	RRCSM	LTE FDD	Downlink	11:04:25.255	CCCH	RRCConnectionSetup
					3719.		11:05:04.261	3050	121	-7	14389.	RRCSM	LTE FDD	Uplink	11:04:25.259	DCCH	RRCConnectionSetupComplete
					3720.	-87	11:05:05.053	3050	121		14390.	RRCSM	LTE FDD	Downlink	11:04:25.434	DCCH	DLInformationTransfer
					3721.		11:05:05.053	3050	121	-8.6	14391.	L3SM	LTE FDD	Downlink	11:04:25.434		AUTHENTICATION_REQUEST

Analysis:

- This call failure event occurred on short call at 11:04:30:556 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 121 and RF condition RSCP -113.5 dBm is poor and Ec/No -12.7 dB which is ok.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 4 From MS5 Airtel MO

	Time	System	Serving band		1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	11:02:40.325	UMTS FDD	2100	Dro	4911.		11:20:41.242	3050	128	-8.4	19861.	RRCSM	UMTS FDD	Uplink	11:20:39.375	DCCH	MEASUREMENT_REPORT
2.	11:03:30.000	UMTS FDD	2100	Nor	4912.	-77	11:20:41.812	3050	128		19862.	RRCSM	UMTS FDD	Uplink	11:20:39.443	DCCH	UPLINK_DIRECT_TRANSFER
3.	11:04:30.556	LTE FDD	800	Tim	4913.		11:20:41.812	3050	128	-9.4	19863.	L3SM	UMTS FDD	Uplink	11:20:39.443	DCCH	SETUP
4.	11:20:46.863	UMTS FDD	900	Dro	4914.	-80.5	11:20:42.242	3050	128		19864.	RRCSM	UMTS FDD	Downlink	11:20:39.462	DCCH	DOWNLINK_DIRECT_TRANSFER
5.	11:44:43.010	UMTS FDD	900	Call	4915.		11:20:42.242	3050	128	-10.1	19865.	L3SM	UMTS FDD	Downlink	11:20:39.462	DCCH	IDENTITY_REQUEST
					4916.	-79.2	11:20:42.743	3050	128		19866.	RRCSM	UMTS FDD	Uplink	11:20:39.462	DCCH	UPLINK_DIRECT_TRANSFER
					4917.		11:20:42.743	3050	128	-9.7	19867.	L3SM	UMTS FDD	Uplink	11:20:39.462	DCCH	IDENTITY_RESPONSE
					4918.	-74.9	11:20:43.242	3050	128		19868.	RRCSM	UMTS FDD	Uplink	11:20:39.473	DCCH	MEASUREMENT_REPORT
					4919.		11:20:43.242	3050	128	-8.8	19869.	RRCSM	UMTS FDD	Uplink	11:20:39.515	DCCH	MEASUREMENT_REPORT
					4920.	-78.2	11:20:43.991	3050	128		19870.	RRCSM	UMTS FDD	Downlink	11:20:39.522	DCCH	ACTIVE_SET_UPDATE
					4921.		11:20:43.991	3050	128	-8.7	19871.	RRCSM	UMTS FDD	Uplink	11:20:39.533	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4922.	-78.6	11:20:44.242	3050	128		19872.	RRCSM	UMTS FDD	Downlink	11:20:39.572	DCCH	DOWNLINK_DIRECT_TRANSFER
					4923.		11:20:44.242	3050	128	-8.6	19873.	L3SM	UMTS FDD	Downlink	11:20:39.572	DCCH	CALL_PROCEEDING
					4924.	-80	11:20:45.056	3050	128		19874.	RRCSM	UMTS FDD	Downlink	11:20:39.662	DCCH	MEASUREMENT_CONTROL
					4925.		11:20:45.056	3050	128	-10.3	19875.	RRCSM	UMTS FDD	Downlink	11:20:39.672	DCCH	ACTIVE_SET_UPDATE
					4926.	-79.5	11:20:45.245	3050	128		19876.	RRCSM	UMTS FDD	Uplink	11:20:39.683	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4927.		11:20:45.245	3050	128	-10	19877.	RRCSM	UMTS FDD	Downlink	11:20:39.792	DCCH	MEASUREMENT_CONTROL
					4928.	-79.2	11:20:46.058	3050	128		19878.	RRCSM	UMTS FDD	Downlink	11:20:40.022	DCCH	RADIO_BEARER_SETUP
					4929.		11:20:46.058	3050	128	-8.9	19879.	RRCSM	UMTS FDD	Uplink	11:20:40.313	DCCH	MEASUREMENT_REPORT
					4930.	-78.5	11:20:46.245	3050	485		19880.	RRCSM	UMTS FDD	Uplink	11:20:40.375	DCCH	RADIO_BEARER_SETUP_COMPLETE
					4931.		11:20:46.245	3050	485	-8.8	19881.	RRCSM	UMTS FDD	Uplink	11:20:40.693	DCCH	MEASUREMENT_REPORT
					4932.	-79.5	11:20:47.052	3050	128		19882.	RRCSM	UMTS FDD	Uplink	11:20:40.693	DCCH	MEASUREMENT_REPORT
					4933.		11:20:47.052	3050	128	-9.7	19883.	RRCSM	UMTS FDD	Downlink	11:20:40.702	DCCH	RADIO_BEARER_RECONFIGURATION
					4934.	-79	11:21:18.993	3050	485		19884.	RRCSM	UMTS FDD	Uplink	11:20:40.744	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
					4935.		11:21:18.993	3050	485	-9.6	19885.	RRCSM	UMTS FDD	Downlink	11:20:40.782	DCCH	DOWNLINK_DIRECT_TRANSFER
					4936.	-79	11:21:19.550	3050	485		19886.	L3SM	UMTS FDD	Downlink	11:20:40.782	DCCH	PROGRESS
					4937.		11:21:19.550	3050	485	-11.6	19887.	RRCSM	UMTS FDD	Downlink	11:20:46.862	DCCH	DOWNLINK_DIRECT_TRANSFER
					4938.	-79	11:21:19.985	3050	485		19888.	L3SM	UMTS FDD	Downlink	11:20:46.862	DCCH	DISCONNECT
					4939.		11:21:19.985	3050	128	-7	19889.	RRCSM	UMTS FDD	Uplink	11:20:46.863	DCCH	UPLINK_DIRECT_TRANSFER
					4940.	-79	11:21:20.440	3050	485		19890.	L3SM	UMTS FDD	Uplink	11:20:46.863	DCCH	RELEASE
					4941.		11:21:20.440	3050	128	-6.5	19891.	RRCSM	UMTS FDD	Downlink	11:20:47.062	DCCH	MEASUREMENT_CONTROL
					4942.	-79	11:21:21.032	3050	485		19892.	RRCSM	UMTS FDD	Downlink	11:20:47.142	DCCH	DOWNLINK_DIRECT_TRANSFER
					4943.		11:21:21.032	3050	128	-4.5	19893.	L3SM	UMTS FDD	Downlink	11:20:47.142	DCCH	RELEASE_COMPLETE
					4944.	-79	11:21:21.501	3050	485		19894.	RRCSM	UMTS FDD	Uplink	11:20:47.153	DCCH	MEASUREMENT_REPORT
					4945.		11:21:21.501	3050	128	-5.5	19895.	RRCSM	UMTS FDD	Downlink	11:20:47.382	DCCH	RRC_CONNECTION_RELEASE
					4946.	-79	11:21:22.016	3050	485		19896.	RRCSM	UMTS FDD	Uplink	11:20:47.383	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					4947.		11:21:22.016	3050	128	-5.8	19897.	RRCSM	UMTS FDD	Downlink	11:20:47.422	DCCH	RRC_CONNECTION_RELEASE

Analysis:

- This call failure event occurred on short call at 11:20:46:863 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 485 and RF condition RSCP -78.5 dBm and ECNO -8.8 dB both are good.
- Need to check MT End.

Phase-2 Call Attempt Failure Analysis 4 From MS6 Airtel MT

	Time	Cell type	Band	Band (MHz)	Ch	PCI	RSRP	SNR	Event ID	System	Transf. dir.	Time	Subchannel	Message name
6899.	11:20:35.436							-4.9	16069.	L3SM	LTE FDD	Uplink	11:20:44.324	ESM_INFORMATION_RESPONSE
6900.	11:20:36.124	Serving	B20	800		6400 17	-93.8		16070.	RRCSM	LTE FDD	Uplink	11:20:44.325	ULInformationTransfer
6901.	11:20:36.124							-5.5	16071.	RRCSM	LTE FDD	Downlink	11:20:44.447	SecurityModeCommand
6902.	11:20:36.558	Serving	B20	800		6400 17	-94.5		16072.	RRCSM	LTE FDD	Uplink	11:20:44.448	SecurityModeComplete
6903.	11:20:36.558							-5.5	16073.	RRCSM	LTE FDD	Downlink	11:20:44.459	UECapabilityEnquiry
6904.	11:20:37.176	Serving	B20	800		6400 17	-97.3		16074.	RRCSM	LTE FDD	Uplink	11:20:44.462	UECapabilityInformation
6905.	11:20:37.176							-6.2	16075.	RRCSM	UMTS FDD	Uplink	11:20:44.462	INTER_RAT_HANDOVER_INFO
6906.	11:20:37.524	Serving	B20	800		6400 17	-96.8		16076.	RRCSM	LTE FDD	Downlink	11:20:44.486	RRCCConnectionReconfiguration
6907.	11:20:37.524							-5.9	16077.	RRCSM	LTE FDD	Uplink	11:20:44.498	RRCCConnectionReconfigurationComplete
6908.	11:20:39.061	Serving	B20	800		6400 17	-96.8		16078.	L3SM	LTE FDD	Downlink	11:20:44.498	ACTIVATE_DEFAULT_EPS_BEARER_CONTEXT_REQUEST
6909.	11:20:40.060								16079.	L3SM	LTE FDD	Downlink	11:20:44.498	ATTACH_ACCEPT
6910.	11:20:41.325	Serving	B20	800		6400 17	-96.8		16080.	L3SM	LTE FDD	Uplink	11:20:44.502	ATTACH_COMPLETE
6911.	11:20:44.532	Serving	B20	800		6400 190	-94.4		16081.	L3SM	LTE FDD	Uplink	11:20:44.502	ACTIVATE_DEFAULT_EPS_BEARER_CONTEXT_ACCEPT
6912.	11:20:44.532							-5	16082.	RRCSM	LTE FDD	Uplink	11:20:44.502	ULInformationTransfer
6913.	11:20:45.029	Serving	B20	800		6400 190	-97.9		16083.	RRCSM	LTE FDD	Downlink	11:20:44.529	DLInformationTransfer
6914.	11:20:45.029							-4.8	16084.	L3SM	LTE FDD	Downlink	11:20:44.529	EMM_INFORMATION
6915.	11:20:45.542	Serving	B20	800		6400 190	-98.2		16085.	RRCSM	LTE FDD	Uplink	11:20:44.640	MeasurementReport
6916.	11:20:45.542							-5.2	16086.	RRCSM	LTE FDD	Downlink	11:20:44.674	RRCCConnectionReconfiguration
6917.	11:20:46.064	Serving	B20	800		6400 190	-97.4		16087.	RRCSM	LTE FDD	Uplink	11:20:44.675	RRCCConnectionReconfigurationComplete
6918.	11:20:46.064							-4.4	16088.	RRCSM	LTE FDD	Uplink	11:20:45.000	MeasurementReport
6919.	11:20:46.544	Serving	B20	800		6400 190	-97.3		16089.	RRCSM	LTE FDD	Downlink	11:20:45.036	RRCCConnectionReconfiguration
6920.	11:20:46.544							-4.1	16090.	RRCSM	LTE FDD	Uplink	11:20:45.038	RRCCConnectionReconfigurationComplete
6921.	11:20:47.061	Serving	B20	800		6400 190	-96.6		16091.	RRCSM	LTE FDD	Downlink	11:20:50.394	RRCCConnectionReconfiguration
6922.	11:20:47.061							-5	16092.	RRCSM	LTE FDD	Uplink	11:20:50.395	RRCCConnectionReconfigurationComplete
6923.	11:20:47.544	Serving	B20	800		6400 190	-98.6		16093.	RRCSM	LTE FDD	Uplink	11:20:50.572	MeasurementReport
6924.	11:20:47.544							-5.9	16094.	RRCSM	LTE FDD	Uplink	11:20:50.892	MeasurementReport
6925.	11:20:48.071	Serving	B20	800		6400 190	-97.8		16095.	RRCSM	LTE FDD	Downlink	11:20:50.936	RRCCConnectionReconfiguration
6926.	11:20:48.071							-4.7	16096.	RRCSM	LTE FDD	Uplink	11:20:50.979	RRCCConnectionReconfigurationComplete
6927.	11:20:48.603	Serving	B20	800		6400 190	-100		16097.	RRCSM	LTE FDD	Uplink	11:20:51.811	MeasurementReport
6928.	11:20:48.603							-5.9	16098.	RRCSM	LTE FDD	Uplink	11:20:52.852	MeasurementReport
6929.	11:20:49.133	Serving	B20	800		6400 190	-98.1		16099.	RRCSM	LTE FDD	Downlink	11:20:52.933	RRCCConnectionReconfiguration
6930.	11:20:49.133							-5.5	16100.	RRCSM	LTE FDD	Uplink	11:20:52.944	RRCCConnectionReconfigurationComplete
6931.	11:20:49.653	Serving	B20	800		6400 190	-97.9		16101.	RRCSM	LTE FDD	Uplink	11:20:53.091	MeasurementReport
6932.	11:20:49.653							-5.8	16102.	RRCSM	LTE FDD	Uplink	11:20:53.132	MeasurementReport
6933.	11:20:50.124	Serving	B20	800		6400 190	-98		16103.	RRCSM	LTE FDD	Downlink	11:20:53.262	RRCCConnectionReconfiguration
6934.	11:20:50.124							-4.7	16104.	RRCSM	LTE FDD	Uplink	11:20:53.265	RRCCConnectionReconfigurationComplete

Analysis:

- On MT End, During the setup fail, UE was latched with PCI 190 and RF condition RSRP -97.3 dBm is ok and SNR - 4.1dB which is poor.
- As per the Analysis the call setup failure event occurred due to poor quality of the network.

Phase-2 Call Attempt Failure Analysis 5 From MS5 Airtel MO

	Time	System	Serving band		1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name ▲
1.	11:02:40.325	UMTS FDD	2100	Dro	7082.	11:44:11.175	10588	96	-9.3	28291.	RRCSM	UMTS FDD	Uplink	11:44:41.010	DCCH	INITIAL_DIRECT_TRANSFER
2.	11:03:30.000	UMTS FDD	2100	Noi	7083.	11:44:11.618	10588	96		28292.	L3SM	UMTS FDD	Uplink	11:44:41.010	DCCH	ROUTING_AREA_UPDATE_REQUEST
3.	11:04:30.556	LTE FDD	800	Tim	7084.	11:44:11.618	10588	96	-7.4	28293.	RRCSM	UMTS FDD	Downlink	11:44:41.244	DCCH	MEASUREMENT_CONTROL
4.	11:20:46.863	UMTS FDD	900	Dro	7085.	11:44:12.071	10588	96		28294.	RRCSM	UMTS FDD	Downlink	11:44:41.313	DCCH	MEASUREMENT_CONTROL
5.	11:44:43.010	UMTS FDD	900	Cal	7086.	11:44:12.071	10588	96	-14.5	28295.	RRCSM	UMTS FDD	Downlink	11:44:41.324	DCCH	MEASUREMENT_CONTROL
					7087.	11:44:12.618	10588	96	-73.7	28296.	RRCSM	UMTS FDD	Downlink	11:44:41.334	DCCH	MEASUREMENT_CONTROL
					7088.	11:44:12.618	10588	96	-10.5	28297.	RRCSM	UMTS FDD	Downlink	11:44:41.344	DCCH	MEASUREMENT_CONTROL
					7089.	11:44:13.101	10588	96	-71.3	28298.	RRCSM	UMTS FDD	Downlink	11:44:41.344	DCCH	MEASUREMENT_CONTROL
					7090.	11:44:13.101	10588	96	-8	28299.	RRCSM	UMTS FDD	Downlink	11:44:41.384	DCCH	DOWNLINK_DIRECT_TRANSFER
					7091.	11:44:40.797	3050	432	-66	28300.	L3SM	UMTS FDD	Downlink	11:44:41.384	DCCH	AUTHENTICATION_REQUEST
					7092.	11:44:40.797	3050	432	-11.7	28301.	RRCSM	UMTS FDD	Uplink	11:44:41.435	DCCH	MEASUREMENT_REPORT
					7093.	11:44:41.063	3050	432	-66	28302.	RRCSM	UMTS FDD	Uplink	11:44:41.477	DCCH	UPLINK_DIRECT_TRANSFER
					7094.	11:44:41.063	3050	432	-7.2	28303.	L3SM	UMTS FDD	Uplink	11:44:41.477	DCCH	AUTHENTICATION_RESPONSE
					7095.	11:44:41.784	3050	432	-66	28304.	RRCSM	UMTS FDD	Downlink	11:44:41.564	DCCH	SECURITY_MODE_COMMAND
					7096.	11:44:41.784	3050	432	-6.3	28305.	RRCSM	UMTS FDD	Uplink	11:44:41.564	DCCH	SECURITY_MODE_COMPLETE
					7097.	11:44:42.063	3050	432	-66	28306.	RRCSM	UMTS FDD	Uplink	11:44:41.655	DCCH	UPLINK_DIRECT_TRANSFER
					7098.	11:44:42.063	3050	432	-10.6	28307.	L3SM	UMTS FDD	Uplink	11:44:41.655	DCCH	SETUP
					7099.	11:44:42.489	3050	432	-66	28308.	RRCSM	UMTS FDD	Downlink	11:44:41.664	DCCH	DOWNLINK_DIRECT_TRANSFER
					7100.	11:44:42.489	3050	432	-12.8	28309.	L3SM	UMTS FDD	Downlink	11:44:41.664	DCCH	IDENTITY_REQUEST
					7101.	11:44:43.464	3050	432	-66	28310.	RRCSM	UMTS FDD	Uplink	11:44:41.664	DCCH	UPLINK_DIRECT_TRANSFER
					7102.	11:44:43.464	3050	432	-6.2	28311.	L3SM	UMTS FDD	Uplink	11:44:41.664	DCCH	IDENTITY_RESPONSE
					7103.	11:44:43.981	3050	432	-66	28312.	RRCSM	UMTS FDD	Uplink	11:44:41.685	DCCH	MEASUREMENT_REPORT
					7104.	11:44:43.981	3050	432	-5.7	28313.	RRCSM	UMTS FDD	Downlink	11:44:41.784	DCCH	DOWNLINK_DIRECT_TRANSFER
					7105.	11:44:44.374	3050	432	-66	28314.	L3SM	UMTS FDD	Downlink	11:44:41.784	DCCH	CALL_PROCEEDING
					7106.	11:44:44.374	3050	432	-7.5	28315.	RRCSM	UMTS FDD	Uplink	11:44:42.525	DCCH	MEASUREMENT_REPORT
					7107.	11:44:45.063	3050	432	-69.6	28316.	RRCSM	UMTS FDD	Uplink	11:44:42.637	DCCH	MEASUREMENT_REPORT
					7108.	11:44:45.063	3050	432	-6.6	28317.	RRCSM	UMTS FDD	Uplink	11:44:42.665	DCCH	MEASUREMENT_REPORT
					7109.	11:44:45.386	3050	432	-63.8	28318.	RRCSM	UMTS FDD	Uplink	11:44:43.010	DCCH	UPLINK_DIRECT_TRANSFER
					7110.	11:44:45.386	3050	432	-5.2	28319.	L3SM	UMTS FDD	Uplink	11:44:43.010	DCCH	DISCONNECT
					7111.	11:44:46.045	3050	432	-68.4	28320.	RRCSM	UMTS FDD	Downlink	11:44:43.094	DCCH	DOWNLINK_DIRECT_TRANSFER
					7112.	11:44:46.045	3050	432	-6.6	28321.	L3SM	UMTS FDD	Downlink	11:44:43.094	DCCH	RELEASE
					7113.	11:44:46.530	3050	432	-66	28322.	RRCSM	UMTS FDD	Uplink	11:44:43.094	DCCH	UPLINK_DIRECT_TRANSFER
					7114.	11:44:46.530	3050	432	-7.7	28323.	L3SM	UMTS FDD	Uplink	11:44:43.094	DCCH	RELEASE_COMPLETE
					7115.	11:44:47.165	3050	432	-69.9	28324.	RRCSM	UMTS FDD	Downlink	11:44:43.174	DCCH	MEASUREMENT_CONTROL
					7116.	11:44:47.165	3050	432	-6.9	28325.	RRCSM	UMTS FDD	Downlink	11:44:43.184	DCCH	SIGNALLING_CONNECTION_RELEASE
					7117.	11:44:47.527	3050	432	-69.4	28326.	RRCSM	UMTS FDD	Uplink	11:44:43.185	DCCH	INITIAL_DIRECT_TRANSFER
					7118.	11:44:47.527	3050	432	-8.4	28327.	L3SM	UMTS FDD	Uplink	11:44:43.185	DCCH	LOCATION_UPDATING_REQUEST

Analysis:

- This call failure event occurred on short call at 11:44:43:010 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 432 and RF condition RSCP -66 dBm and ECNO -12.8 dB both are good.
- Need to check MT End.

Phase-2 Call Attempt Failure Analysis 5 From MS6 Airtel MT

	Time	Cell type	Band	Band (MHz)	Ch	PCI	RSRP	SNR	Event ID	System	Transf. dir.	Time	Subchannel	Message name
9849.	11:44:32.548							-5.3	23183.	L3SM	LTE FDD	Downlink	11:44:10.064	MODIFY_EPS_BEARER_CONTEXT_REQUEST
9850.	11:44:33.067	Serving	B20	800		6400 16	-85.9		23184.	L3SM	LTE FDD	Uplink	11:44:10.065	MODIFY_EPS_BEARER_CONTEXT_ACCEPT
9851.	11:44:33.793	Serving	B20	800		6400 16	-88.6		23185.	RRCSM	LTE FDD	Uplink	11:44:10.066	ULInformationTransfer
9852.	11:44:33.793							-5.9	23186.	RRCSM	LTE FDD	Uplink	11:44:10.161	MeasurementReport
9853.	11:44:34.067	Serving	B20	800		6400 16	-88.6		23187.	RRCSM	LTE FDD	Downlink	11:44:10.180	RRCCConnectionReconfiguration
9854.	11:44:35.232	Serving	B20	800		6400 16	-84.9		23188.	RRCSM	LTE FDD	Uplink	11:44:10.181	RRCCConnectionReconfigurationComplete
9855.	11:44:35.232							-2.3	23189.	RRCSM	LTE FDD	Downlink	11:44:10.668	SystemInformationBlockType1
9856.	11:44:36.374	Serving	B20	800		6400 16	-85.7		23190.	RRCSM	LTE FDD	Uplink	11:44:26.152	MeasurementReport
9857.	11:44:36.374							-5.6	23191.	RRCSM	LTE FDD	Downlink	11:44:26.191	RRCCConnectionReconfiguration
9858.	11:44:37.064	Serving	B20	800		6400 16	-85.7		23192.	RRCSM	LTE FDD	Uplink	11:44:26.201	RRCCConnectionReconfigurationComplete
9859.	11:44:38.016	Serving	B20	800		6400 16	-85.3		23193.	RRCSM	LTE FDD	Downlink	11:44:28.317	RRCCConnectionReconfiguration
9860.	11:44:38.016							-5.4	23194.	RRCSM	LTE FDD	Uplink	11:44:28.329	RRCCConnectionReconfigurationComplete
9861.	11:44:39.016	Serving	B20	800		6400 16	-86.8		23195.	RRCSM	LTE FDD	Uplink	11:44:28.416	MeasurementReport
9862.	11:44:39.016							-8.7	23196.	RRCSM	LTE FDD	Downlink	11:44:28.439	RRCCConnectionReconfiguration
9863.	11:44:39.511	Serving	B20	800		6400 16	-86.8		23197.	RRCSM	LTE FDD	Uplink	11:44:28.440	RRCCConnectionReconfigurationComplete
9864.	11:44:40.734	Serving	B20	800		6400 16	-87.6		23198.	RRCSM	LTE FDD	Downlink	11:44:29.882	Paging
9865.	11:44:40.734							-8.4	23199.	RRCSM	LTE FDD	Uplink	11:44:29.927	MeasurementReport
9866.	11:44:41.511	Serving	B20	800		6400 16	-86.7		23200.	RRCSM	LTE FDD	Downlink	11:44:29.971	RRCCConnectionReconfiguration
9867.	11:44:41.511							-9.5	23201.	RRCSM	LTE FDD	Uplink	11:44:29.983	RRCCConnectionReconfigurationComplete
9868.	11:44:42.067	Serving	B20	800		6400 16	-86.7		23202.	RRCSM	LTE FDD	Downlink	11:44:30.080	RRCCConnectionRelease
9869.	11:44:42.753	Serving	B20	800		6400 16	-86.7		23203.	RRCSM	LTE FDD	Downlink	11:44:31.232	Paging
9870.	11:44:42.753							-10.8	23204.	RRCSM	LTE FDD	Downlink	11:44:36.352	Paging
9871.	11:44:43.067	Serving	B20	800		6400 16	-86.7		23205.	RRCSM	LTE FDD	Downlink	11:44:45.312	Paging
9872.	11:44:44.192	Serving	B20	800		6400 16	-83.4		23206.	L3SM	LTE FDD	Uplink	11:44:45.313	SERVICE_REQUEST
9873.	11:44:44.192							-6.6	23207.	RRCSM	LTE FDD	Uplink	11:44:45.313	RRCCConnectionRequest
9874.	11:44:45.621	Serving	B20	800		6400 16	-87.9		23208.	RRCSM	LTE FDD	Downlink	11:44:45.397	RRCCConnectionSetup
9875.	11:44:45.621							-8.7	23209.	RRCSM	LTE FDD	Uplink	11:44:45.400	RRCCConnectionSetupComplete
9876.	11:44:45.812	Serving	B20	800		6400 16	-87.5		23210.	RRCSM	LTE FDD	Downlink	11:44:45.446	SecurityModeCommand
9877.	11:44:45.812							-7.8	23211.	RRCSM	LTE FDD	Uplink	11:44:45.446	SecurityModeComplete
9878.	11:44:53.888	Serving	B3	1800		1300 77	-92.9		23212.	RRCSM	LTE FDD	Downlink	11:44:45.473	RRCCConnectionReconfiguration
9879.	11:44:53.888								23213.	RRCSM	LTE FDD	Uplink	11:44:45.486	RRCCConnectionReconfigurationComplete
9880.	11:44:54.066	Serving	B3	1800		1300 77	-89.3		23214.	RRCSM	LTE FDD	Downlink	11:44:45.518	UECapabilityEnquiry
9881.	11:44:54.066							0.5	23215.	RRCSM	LTE FDD	Uplink	11:44:45.519	UECapabilityInformation
9882.	11:44:55.393	Serving	B3	1800		1300 77	-89.8		23216.	RRCSM	UMTS FDD	Uplink	11:44:45.519	INTER_RAT_HANDOVER_INFO
9883.	11:44:55.393							2.9	23217.	RRCSM	LTE FDD	Uplink	11:44:45.534	MeasurementReport
9884.	11:44:56.455	Serving	B3	1800		1300 77	-88.5		23218.	RRCSM	LTE FDD	Downlink	11:44:45.549	DLInformationTransfer

Analysis:

- On MT End, During the setup fail, UE was latched with PCI 16 and RF condition RSRP -86.7 dBm is ok and SNR – 10.8 dB which is poor.
- As per the Analysis the call setup failure event occurred due to poor quality of the network.

Phase-2 Call Attempt Failure Analysis 1 From MS7 CWC MO

	Time	System	Serving band	Call	1. best active RSCP	Time	Ch	SC	1. best active ▲	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	10:29:10.710	UMTS FDD	2100	Dro	489. -87	10:29:05.225	10690	370		2681.	L3SM	UMTS FDD	Uplink	10:29:02.657	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
2.	10:32:41.816	GSM	900	Dro	490. -8.8	10:29:05.225	10690	370		2682.	RRCSM	UMTS FDD	Downlink	10:29:02.908	DCCH	SECURITY_MODE_COMMAND
3.	10:34:15.918	UMTS FDD	2100	Dro	491. -89.9	10:29:05.979	10690	316		2683.	RRCSM	UMTS FDD	Uplink	10:29:02.909	DCCH	SECURITY_MODE_COMPLETE
4.	10:38:31.068	UMTS FDD	2100	Dro	492. -9.5	10:29:05.979	10690	316		2684.	RRCSM	UMTS FDD	Downlink	10:29:03.378	DCCH	DOWNLINK_DIRECT_TRANSFER
5.	11:14:56.716	UMTS FDD	2100	Dro	493. -87.5	10:29:06.229	10690	316		2685.	L3SM	UMTS FDD	Downlink	10:29:03.378	DCCH	ROUTING_AREA_UPDATE_ACCEPT
6.	11:15:37.961	UMTS FDD	2100	Dro	494. -8.8	10:29:06.229	10690	316		2686.	RRCSM	UMTS FDD	Uplink	10:29:03.380	DCCH	UPLINK_DIRECT_TRANSFER
					495. -79.8	10:29:06.997	10690	20		2687.	L3SM	UMTS FDD	Uplink	10:29:03.380	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					496. -5.2	10:29:06.997	10690	20		2688.	RRCSM	UMTS FDD	Uplink	10:29:05.694	DCCH	MEASUREMENT_REPORT
					497. -88.2	10:29:07.552	10690	370		2689.	RRCSM	UMTS FDD	Downlink	10:29:05.838	DCCH	ACTIVE_SET_UPDATE
					498. -8.8	10:29:07.552	10690	370		2690.	RRCSM	UMTS FDD	Uplink	10:29:05.870	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					499. -92.5	10:29:08.051	10690	370		2691.	RRCSM	UMTS FDD	Downlink	10:29:05.978	DCCH	MEASUREMENT_CONTROL
					500. -17.1	10:29:08.051	10690	370		2692.	RRCSM	UMTS FDD	Uplink	10:29:07.281	DCCH	MEASUREMENT_REPORT
					501. -89.3	10:29:08.229	10690	20		2693.	RRCSM	UMTS FDD	Uplink	10:29:07.400	DCCH	MEASUREMENT_REPORT
					502. -11.9	10:29:08.229	10690	20		2694.	RRCSM	UMTS FDD	Downlink	10:29:07.408	DCCH	MEASUREMENT_CONTROL
					503. -88.7	10:29:08.982	10690	370		2695.	RRCSM	UMTS FDD	Downlink	10:29:07.508	DCCH	ACTIVE_SET_UPDATE
					504. -10.3	10:29:08.982	10690	370		2696.	RRCSM	UMTS FDD	Uplink	10:29:07.540	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					505. -86	10:29:09.394	10690	370		2697.	RRCSM	UMTS FDD	Downlink	10:29:09.668	DCCH	RADIO_BEARER_SETUP
					506. -12.7	10:29:09.394	10690	370		2698.	RRCSM	UMTS FDD	Uplink	10:29:09.912	DCCH	RADIO_BEARER_SETUP_COMPLETE
					507. -77.6	10:29:09.984	10690	370		2699.	RRCSM	UMTS FDD	Uplink	10:29:09.988	DCCH	MEASUREMENT_REPORT
					508. -11.9	10:29:09.984	10690	370		2700.	RRCSM	UMTS FDD	Downlink	10:29:10.158	DCCH	MEASUREMENT_CONTROL
					509. -78.5	10:29:10.648	10690	20		2701.	RRCSM	UMTS FDD	Downlink	10:29:10.198	DCCH	MEASUREMENT_CONTROL
					510. -8.6	10:29:10.648	10690	20		2702.	RRCSM	UMTS FDD	Downlink	10:29:10.277	DCCH	MEASUREMENT_CONTROL
					511. -73.4	10:29:11.050	10690	370		2703.	RRCSM	UMTS FDD	Downlink	10:29:10.318	DCCH	MEASUREMENT_CONTROL
					512. -11.3	10:29:11.050	10690	370		2704.	RRCSM	UMTS FDD	Downlink	10:29:10.558	DCCH	MEASUREMENT_CONTROL
					513. -80.1	10:29:11.508	10690	370		2705.	RRCSM	UMTS FDD	Downlink	10:29:10.598	DCCH	DOWNLINK_DIRECT_TRANSFER
					514. -7.2	10:29:11.508	10690	370		2706.	L3SM	UMTS FDD	Downlink	10:29:10.598	DCCH	DISCONNECT
					515. -76.8	10:29:12.217	10690	370		2707.	RRCSM	UMTS FDD	Uplink	10:29:10.710	DCCH	UPLINK_DIRECT_TRANSFER
					516. -7.1	10:29:12.217	10690	370		2708.	L3SM	UMTS FDD	Uplink	10:29:10.710	DCCH	RELEASE
					517. -61	10:29:42.212	10690	160		2709.	RRCSM	UMTS FDD	Downlink	10:29:10.917	DCCH	DOWNLINK_DIRECT_TRANSFER
					518. -7.7	10:29:42.212	10690	160		2710.	L3SM	UMTS FDD	Downlink	10:29:10.917	DCCH	RELEASE_COMPLETE
					519. -61	10:29:42.900	10690	160		2711.	RRCSM	UMTS FDD	Downlink	10:29:11.077	DCCH	RADIO_BEARER_RELEASE
					520. -5.4	10:29:42.900	10690	160		2712.	RRCSM	UMTS FDD	Uplink	10:29:11.501	DCCH	MEASUREMENT_REPORT
					521. -61	10:29:43.413	10690	160		2713.	RRCSM	UMTS FDD	Downlink	10:29:11.717	DCCH	MEASUREMENT_CONTROL
					522. -6.7	10:29:43.413	10690	160		2714.	RRCSM	UMTS FDD	Uplink	10:29:11.870	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					523. -61	10:29:43.980	10690	160		2715.	RRCSM	UMTS FDD	Uplink	10:29:11.901	DCCH	MEASUREMENT_REPORT
					524. -5.5	10:29:43.980	10690	160		2716.	RRCSM	UMTS FDD	Downlink	10:29:12.118	DCCH	RRC_CONNECTION_RELEASE
					525. -61	10:29:44.414	10690	160		2717.	RRCSM	UMTS FDD	Uplink	10:29:12.119	DCCH	RRC_CONNECTION_RELEASE_COMPLETE

Analysis:

- This call failure event occurred on short call at 10:29:10:710 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the failure, UE was latched with PSC 370 and RF condition RSCP -92.5 dBm good but Ec/No -17.1 dB are very poor.
- As per the analysis call failed happened due to poor quality of the network.

Phase-2 Call Attempt Failure Analysis 2 From MS7 CWS MO

	Time	System	Serving band	Call		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub	▲	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	10:29:10.710	UMTS FDD	2100	Dro	412.	10:32:29.668	-82	6	35	1	0			3802.	L3SM	GSM	Uplink	10:32:37.298	SACCH	MEASUREMENT_REPORT
2.	10:32:41.816	GSM	900	Dro	413.	10:32:30.237	-85	6	35	1	0			3803.	L3SM	GSM	Downlink	10:32:37.649	SACCH	MEASUREMENT_INFORMATION
3.	10:34:15.918	UMTS FDD	2100	Dro	414.	10:32:31.219	-76	6	35	1	0			3804.	L3SM	GSM	Uplink	10:32:37.769	SACCH	MEASUREMENT_REPORT
4.	10:38:31.068	UMTS FDD	2100	Dro	415.	10:32:31.690	-82	6	35	1	0			3805.	L3SM	GSM	Downlink	10:32:38.119	SACCH	MEASUREMENT_INFORMATION
5.	11:14:56.716	UMTS FDD	2100	Dro	416.	10:32:32.161	-82	6	35	1	0			3806.	L3SM	GSM	Uplink	10:32:38.240	SACCH	MEASUREMENT_REPORT
6.	11:15:37.961	UMTS FDD	2100	Dro	417.	10:32:32.785	-81	6	35	1	0			3807.	L3SM	GSM	Downlink	10:32:38.590	SACCH	SYSTEM_INFORMATION_TYPE_5
					418.	10:32:33.154	-79	6	35	1	0			3808.	L3SM	GSM	Uplink	10:32:38.710	SACCH	MEASUREMENT_REPORT
					419.	10:32:33.668	-77	6	35	1	0			3809.	L3SM	GSM	Downlink	10:32:39.061	SACCH	SYSTEM_INFORMATION_TYPE_STER
					420.	10:32:34.103	-80	6	35	1	0			3810.	L3SM	GSM	Uplink	10:32:39.181	SACCH	MEASUREMENT_REPORT
					421.	10:32:34.983	-80	6	35	1	0			3811.	L3SM	GSM	Downlink	10:32:39.532	SACCH	SYSTEM_INFORMATION_TYPE_6
					422.	10:32:35.415	-81	6	35	1	0			3812.	L3SM	GSM	Uplink	10:32:39.652	SACCH	MEASUREMENT_REPORT
					423.	10:32:35.886	-78	6	35	1	0			3813.	L3SM	GSM	Downlink	10:32:40.002	SACCH	MEASUREMENT_INFORMATION
					424.	10:32:36.398	-78	6	35	1	0			3814.	L3SM	GSM	Uplink	10:32:40.123	SACCH	MEASUREMENT_REPORT
					425.	10:32:37.049	-80	6	35	1	0			3815.	L3SM	GSM	Downlink	10:32:40.473	SACCH	MEASUREMENT_INFORMATION
					426.	10:32:37.359	-77	6	35	1	0			3816.	L3SM	GSM	Uplink	10:32:40.593	SACCH	MEASUREMENT_REPORT
					427.	10:32:37.982	-69	6	35	1	0			3817.	L3SM	GSM	Downlink	10:32:40.944	SACCH	MEASUREMENT_INFORMATION
					428.	10:32:38.281	-65	6	35	1	0			3818.	L3SM	GSM	Uplink	10:32:41.064	SACCH	MEASUREMENT_REPORT
					429.	10:32:39.181	-70	6	35	1	0			3819.	L3SM	GSM	Downlink	10:32:41.105	DCCH	ASSIGNMENT_COMMAND
					430.	10:32:40.122	-72	6	35	1	0			3820.	L3SM	GSM	Uplink	10:32:41.165	DCCH	ASSIGNMENT_COMPLETE
					431.	10:32:40.593	-76	6	35	1	0			3821.	L3SM	GSM	Uplink	10:32:41.352	SACCH	MEASUREMENT_REPORT
					432.	10:32:40.593						0		3822.	L3SM	GSM	Downlink	10:32:41.592	DCCH	DISCONNECT
					433.	10:32:41.064						0		3823.	L3SM	GSM	Downlink	10:32:41.786	SACCH	SYSTEM_INFORMATION_TYPE_5
					434.	10:32:41.352						7		3824.	L3SM	GSM	Uplink	10:32:41.816	DCCH	RELEASE
					435.	10:32:41.477	-70	24	35	1	0			3825.	L3SM	GSM	Uplink	10:32:41.832	SACCH	MEASUREMENT_REPORT
					436.	10:32:41.786						7		3826.	L3SM	GSM	Downlink	10:32:41.993	DCCH	RELEASE_COMPLETE
					437.	10:32:41.832						0		3827.	L3SM	GSM	Downlink	10:32:42.192	DCCH	CHANNEL_RELEASE
					438.	10:32:41.957	-82	24	35	1	0			3828.	L3SM	GSM	Downlink	10:32:42.266	SACCH	SYSTEM_INFORMATION_TYPE_STER
					439.	10:32:42.266								3829.	L3SM	GSM	Uplink	10:32:42.358	PDTCH	MODIFY_PDP_CONTEXT_ACCEPT
					440.	10:32:42.342	-82	24	35	1	0			3830.	L3SM	GSM	Downlink	10:32:42.448	BCCH	SYSTEM_INFORMATION_TYPE_3
					441.	10:32:43.050	-84	6	35	1	0			3831.	L3SM	GSM	Downlink	10:32:42.466	CCCH	IMMEDIATE_ASSIGNMENT
					442.	10:32:43.423	-87	6	35	1	0			3832.	MACSM	GSM	Uplink	10:32:42.545	PACCH	PACKET_RESOURCE_REQUEST
					443.	10:32:43.986	-87	6	35	1	0			3833.	MACSM	GSM	Downlink	10:32:42.643	PAGCH	PACKET_UPLINK_ASSIGNMENT
					444.	10:32:44.434	-87	6	35	1	0			3834.	MACSM	GSM	Uplink	10:32:42.643	PACCH	PACKET_UPLINK_DUMMY_CONTROL_BLOCK
					445.	10:32:45.048	-87	6	35	1	0			3835.	MACSM	GSM	Downlink	10:32:42.781	PACCH	PACKET_UPLINK_ACK/NACK
					446.	10:32:45.246	-88	6	35	1	0			3836.	MACSM	GSM	Downlink	10:32:42.800	PACCH	PACKET_DOWNLINK_ASSIGNMENT
					447.	10:32:45.982	-88	6	35	1	0			3837.	MACSM	GSM	Uplink	10:32:42.800	PACCH	PACKET_CONTROL_ACKNOWLEDGEMENT

Analysis:

- This call failure event occurred on short call at 10:32:41:816 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 24 and RF condition Rx lev -70 dBm is good and Rx qual 7 dB which is poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-2 Call Attempt Failure Analysis 3 From MS7 CWC MO

	Time	System	Serving band	Call	1. best active RSCP	Time	Ch	SC	1. best active ▲	Event ID	System	Transf. dir.	Time	Subchannel	Message name		
1.	10:29:10.710	UMTS FDD	2100	Dro	773.	-85.7	10:34:09.939	10690	47		4207.	L3SM	UMTS FDD	Downlink	10:34:08.908	DCCH	ROUTING_AREA_UPDATE_ACCEPT
2.	10:32:41.816	GSM	900	Dro	774.		10:34:09.939	10690	47	-4	4208.	RRCSM	UMTS FDD	Uplink	10:34:08.910	DCCH	UPLINK_DIRECT_TRANSFER
3.	10:34:15.918	UMTS FDD	2100	Dro	775.	-95.4	10:34:10.439	10690	47		4209.	L3SM	UMTS FDD	Uplink	10:34:08.910	DCCH	ROUTING_AREA_UPDATE_COMPLETE
4.	10:38:31.068	UMTS FDD	2100	Dro	776.		10:34:10.439	10690	47	-7.3	4210.	RRCSM	UMTS FDD	Uplink	10:34:09.211	DCCH	MEASUREMENT_REPORT
5.	11:14:56.716	UMTS FDD	2100	Dro	777.	-98.2	10:34:10.987	10690	47		4211.	RRCSM	UMTS FDD	Uplink	10:34:11.211	DCCH	MEASUREMENT_REPORT
6.	11:15:37.961	UMTS FDD	2100	Dro	778.		10:34:10.987	10690	47	-8.8	4212.	RRCSM	UMTS FDD	Uplink	10:34:11.522	DCCH	MEASUREMENT_REPORT
					779.	-101.2	10:34:11.581	10690	47		4213.	RRCSM	UMTS FDD	Uplink	10:34:13.963	DCCH	MEASUREMENT_REPORT
					780.		10:34:11.581	10690	47	-14.1	4214.	RRCSM	UMTS FDD	Uplink	10:34:14.372	DCCH	MEASUREMENT_REPORT
					781.	-101.1	10:34:12.067	10690	47		4215.	RRCSM	UMTS FDD	Uplink	10:34:14.432	DCCH	MEASUREMENT_REPORT
					782.		10:34:12.067	10690	47	-14.7	4216.	RRCSM	UMTS FDD	Downlink	10:34:15.148	DCCH	RADIO_BEARER_SETUP
					783.	-104.3	10:34:12.662	10690	47		4217.	RRCSM	UMTS FDD	Uplink	10:34:15.411	DCCH	RADIO_BEARER_SETUP_COMPLETE
					784.		10:34:12.662	10690	47	-15.5	4218.	RRCSM	UMTS FDD	Downlink	10:34:15.658	DCCH	MEASUREMENT_CONTROL
					785.	-106.3	10:34:13.050	10690	47		4219.	RRCSM	UMTS FDD	Downlink	10:34:15.698	DCCH	MEASUREMENT_CONTROL
					786.		10:34:13.050	10690	47	-16.1	4220.	RRCSM	UMTS FDD	Downlink	10:34:15.738	DCCH	MEASUREMENT_CONTROL
					787.	-103	10:34:13.672	10690	47		4221.	RRCSM	UMTS FDD	Uplink	10:34:15.772	DCCH	MEASUREMENT_REPORT
					788.		10:34:13.672	10690	47	-14.2	4222.	RRCSM	UMTS FDD	Downlink	10:34:15.778	DCCH	MEASUREMENT_CONTROL
					789.	-108.9	10:34:14.432	10690	47		4223.	RRCSM	UMTS FDD	Uplink	10:34:15.814	DCCH	MEASUREMENT_REPORT
					790.		10:34:14.432	10690	47	-19.5	4224.	RRCSM	UMTS FDD	Downlink	10:34:15.858	DCCH	DOWNLINK_DIRECT_TRANSFER
					791.	-106.6	10:34:14.981	10690	47		4225.	L3SM	UMTS FDD	Downlink	10:34:15.858	DCCH	DISCONNECT
					792.		10:34:14.981	10690	47	-19	4226.	RRCSM	UMTS FDD	Uplink	10:34:15.868	DCCH	MEASUREMENT_REPORT
					793.	-104	10:34:15.191	10690	47		4227.	RRCSM	UMTS FDD	Uplink	10:34:15.891	DCCH	UPLINK_DIRECT_TRANSFER
					794.		10:34:15.191	10690	47	-16.1	4228.	L3SM	UMTS FDD	Uplink	10:34:15.891	DCCH	RELEASE
					795.	-98.2	10:34:15.982	10690	47		4229.	RRCSM	UMTS FDD	Uplink	10:34:16.043	DCCH	MEASUREMENT_REPORT
					796.		10:34:15.982	10690	47	-9.1	4230.	RRCSM	UMTS FDD	Downlink	10:34:16.298	DCCH	ACTIVE_SET_UPDATE
					797.	-99.2	10:34:16.467	10690	47		4231.	RRCSM	UMTS FDD	Uplink	10:34:16.310	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					798.		10:34:16.467	10690	47	-12.3	4232.	RRCSM	UMTS FDD	Downlink	10:34:16.458	DCCH	DOWNLINK_DIRECT_TRANSFER
					799.	-98.8	10:34:16.948	10690	47		4233.	L3SM	UMTS FDD	Downlink	10:34:16.458	DCCH	RELEASE_COMPLETE
					800.		10:34:16.948	10690	47	-12.4	4234.	RRCSM	UMTS FDD	Downlink	10:34:16.698	DCCH	RADIO_BEARER_RELEASE
					801.	-98.8	10:34:17.439	10690	47		4235.	RRCSM	UMTS FDD	Uplink	10:34:16.828	DCCH	MEASUREMENT_REPORT
					802.		10:34:17.439	10690	122	-11.1	4236.	RRCSM	UMTS FDD	Uplink	10:34:16.890	DCCH	MEASUREMENT_REPORT
					803.	-100.3	10:36:30.924	10690	202		4237.	RRCSM	UMTS FDD	Uplink	10:34:17.490	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					804.		10:36:30.924	10690	202	-13.1	4238.	RRCSM	UMTS FDD	Downlink	10:34:17.698	DCCH	SIGNALLING_CONNECTION_RELEASE
					805.	-98.8	10:36:31.312	10690	202		4239.	RRCSM	UMTS FDD	Uplink	10:34:17.700	DCCH	INITIAL_DIRECT_TRANSFER
					806.		10:36:31.312	10690	202	-11.2	4240.	L3SM	UMTS FDD	Uplink	10:34:17.700	DCCH	LOCATION_UPDATING_REQUEST
					807.	-103.9	10:36:31.928	10690	202		4241.	RRCSM	UMTS FDD	Downlink	10:34:17.738	DCCH	RRC_CONNECTION_RELEASE
					808.		10:36:31.928	10690	202	-16.3	4242.	RRCSM	UMTS FDD	Uplink	10:34:17.739	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					809.	-103.9	10:36:32.444	10690	202		4243.	RRCSM	UMTS FDD	Uplink	10:34:17.779	DCCH	RRC_CONNECTION_RELEASE_COMPLETE

Analysis:

- This call failure event occurred on short call at 10:34:15:918 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request" and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 47 and RF condition RSCP -108.9 dBm and Ec/No -19.5 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 4 From MS7 CWC MO

	Time	System	Serving band	Call		1. best active RSCP	Time	Ch	SC	1. best active ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	▲	
1.	10:29:10.710	UMTS FDD	2100	Dro	919.	-111.7	10:38:25.652	10690	122			5106.	RRCSM	UMTS FDD	Downlink	10:38:27.944	DCCH	ACTIVE_SET_UPDATE	
2.	10:32:41.816	GSM	900	Dro	920.		10:38:25.652	10690	122	-18		5107.	RRCSM	UMTS FDD	Uplink	10:38:27.976	DCCH	ACTIVE_SET_UPDATE_COMPLETE	
3.	10:34:15.918	UMTS FDD	2100	Dro	921.	-106.7	10:38:26.173	10690	122			5108.	RRCSM	UMTS FDD	Downlink	10:38:28.074	DCCH	MEASUREMENT_CONTROL	
4.	10:38:31.068	UMTS FDD	2100	Dro	922.		10:38:26.173	10690	122	-13.8		5109.	RRCSM	UMTS FDD	Uplink	10:38:28.517	DCCH	MEASUREMENT_REPORT	
5.	11:14:56.716	UMTS FDD	2100	Dro	923.	-108.3	10:38:26.612	10690	122			5110.	RRCSM	UMTS FDD	Downlink	10:38:28.614	DCCH	ACTIVE_SET_UPDATE	
6.	11:15:37.961	UMTS FDD	2100	Dro	924.		10:38:26.612	10690	122	-14.7		5111.	RRCSM	UMTS FDD	Uplink	10:38:28.646	DCCH	ACTIVE_SET_UPDATE_COMPLETE	
					925.	-104.1	10:38:27.240	10690	122			5112.	RRCSM	UMTS FDD	Downlink	10:38:28.765	DCCH	MEASUREMENT_CONTROL	
					926.		10:38:27.240	10690	122	-11.4		5113.	RRCSM	UMTS FDD	Uplink	10:38:29.960	DCCH	MEASUREMENT_REPORT	
					927.	-112.6	10:38:27.852	10690	122			5114.	RRCSM	UMTS FDD	Uplink	10:38:30.120	DCCH	MEASUREMENT_REPORT	
					928.		10:38:27.852	10690	122	-17.5		5115.	RRCSM	UMTS FDD	Downlink	10:38:30.134	DCCH	RADIO_BEARER_SETUP	
					929.	-112.2	10:38:28.175	10690	122			5116.	RRCSM	UMTS FDD	Uplink	10:38:30.378	DCCH	RADIO_BEARER_SETUP_COMPLETE	
					930.		10:38:28.175	10690	122	-16.4		5117.	RRCSM	UMTS FDD	Downlink	10:38:30.624	DCCH	MEASUREMENT_CONTROL	
					931.	-111.5	10:38:28.675	10690	122			5118.	RRCSM	UMTS FDD	Downlink	10:38:30.664	DCCH	MEASUREMENT_CONTROL	
					932.		10:38:28.675	10690	122	-17.7		5119.	RRCSM	UMTS FDD	Downlink	10:38:30.704	DCCH	MEASUREMENT_CONTROL	
					933.	-106.4	10:38:29.175	10690	122			5120.	RRCSM	UMTS FDD	Downlink	10:38:30.744	DCCH	MEASUREMENT_CONTROL	
					934.		10:38:29.175	10690	122	-12.8		5121.	RRCSM	UMTS FDD	Downlink	10:38:30.784	DCCH	ACTIVE_SET_UPDATE	
					935.	-112.2	10:38:29.699	10690	122			5122.	RRCSM	UMTS FDD	Uplink	10:38:30.796	DCCH	ACTIVE_SET_UPDATE_COMPLETE	
					936.		10:38:29.699	10690	122	-17.8		5123.	RRCSM	UMTS FDD	Downlink	10:38:30.864	DCCH	DOWNLINK_DIRECT_TRANSFER	
					937.	-112.9	10:38:30.175	10690	122			5124.	L3SM	UMTS FDD	Downlink	10:38:30.864	DCCH	DISCONNECT	
					938.		10:38:30.175	10690	122	-17.9		5125.	RRCSM	UMTS FDD	Uplink	10:38:30.986	DCCH	UPLINK_DIRECT_TRANSFER	
					939.	-109.9	10:38:30.868	10690	20			5126.	L3SM	UMTS FDD	Uplink	10:38:30.986	DCCH	RELEASE	
					940.		10:38:30.868	10690	20	-17		5127.	RRCSM	UMTS FDD	Uplink	10:38:31.068	DCCH	MEASUREMENT_REPORT	
					941.	-111.6	10:38:31.429	10690	122			5128.	RRCSM	UMTS FDD	Downlink	10:38:31.384	DCCH	RADIO_BEARER_RELEASE	
					942.		10:38:31.429	10690	122	-18.8		5129.	RRCSM	UMTS FDD	Downlink	10:38:31.424	DCCH	DOWNLINK_DIRECT_TRANSFER	
					943.	-106.2	10:38:32.135	10690	122			5130.	L3SM	UMTS FDD	Downlink	10:38:31.424	DCCH	RELEASE_COMPLETE	
					944.		10:38:32.135	10690	122	-15.7		5131.	RRCSM	UMTS FDD	Downlink	10:38:31.824	DCCH	MEASUREMENT_CONTROL	
					945.	-109.6	10:38:32.660	10690	20			5132.	RRCSM	UMTS FDD	Uplink	10:38:32.137	DCCH	RADIO_BEARER_RELEASE_COMPLETE	
					946.		10:38:32.660	10690	20	-20.5		5133.	RRCSM	UMTS FDD	Downlink	10:38:32.345	DCCH	SIGNALLING_CONNECTION_RELEASE	
					947.	-98.2	10:39:02.580	10690	168			5134.	RRCSM	UMTS FDD	Uplink	10:38:32.346	DCCH	INITIAL_DIRECT_TRANSFER	
					948.		10:39:02.580	10690	168	-15.7		5135.	L3SM	UMTS FDD	Uplink	10:38:32.346	DCCH	LOCATION_UPDATING_REQUEST	
					949.	-104.7	10:39:03.382	10690	168			5136.	RRCSM	UMTS FDD	Downlink	10:38:32.425	DCCH	RRC_CONNECTION_RELEASE	
					950.		10:39:03.382	10690	168	-22.1		5137.	RRCSM	UMTS FDD	Uplink	10:38:32.425	DCCH	RRC_CONNECTION_RELEASE_COMPLETE	
					951.	-95.8	10:39:03.576	10690	168			5138.	RRCSM	UMTS FDD	Uplink	10:38:32.466	DCCH	RRC_CONNECTION_RELEASE_COMPLETE	
					952.		10:39:03.576	10690	168	-13.7		5139.	RRCSM	LTE FDD	Downlink	10:38:32.794	BCCH-BCH	MasterInformationBlock	
					953.	-97.7	10:39:04.093	10690	168			5140.	RRCSM	LTE FDD	Downlink	10:38:32.900	BCCH-BCH	MasterInformationBlock	
					954.		10:39:04.093	10690	168	-18.7		5141.	RRCSM	LTE FDD	Downlink	10:38:33.023	BCCH-SCH	SystemInformationBlockType1	
					955.	-103.9	10:39:04.592	10690	168			5142.	RRCSM	LTE FDD	Downlink	10:38:33.150	BCCH-SCH	SystemInformation - SIB2,SIB3	

Analysis:

- This call failure event occurred on short call at 10:38:31:068 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 20 and RF condition RSCP -109.9 dBm and Ec/No -17 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 5 From MS7 CWC MO

	Time	System	Serving band	Call	1. best active RSCP	Time	Ch	SC	1. best active	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	10:29:10.710	UMTS FDD	2100	Dro 4916.	-75.2	11:14:50.056	10715	370		13772.	RRCSM	Uplink	11:14:44.158	DCCH	UPLINK_DIRECT_TRANSFER
2.	10:32:41.816	GSM	900	Dro 4917.		11:14:50.056	10715	370	-11.7	13773.	L3SM	Uplink	11:14:44.158	DCCH	TMSI_REALLOCATION_COMPLETE
3.	10:34:15.918	UMTS FDD	2100	Dro 4918.	-75.1	11:14:50.483	10715	370		13774.	RRCSM	Downlink	11:14:44.297	DCCH	DOWNLINK_DIRECT_TRANSFER
4.	10:38:31.068	UMTS FDD	2100	Dro 4919.		11:14:50.483	10715	370	-14.2	13775.	L3SM	Downlink	11:14:44.297	DCCH	CALL_PROCEEDING
5.	11:14:56.716	UMTS FDD	2100	Dro 4920.	-72.2	11:14:51.056	10715	370		13776.	RRCSM	Uplink	11:14:45.780	DCCH	MEASUREMENT_REPORT
6.	11:15:37.961	UMTS FDD	2100	Dro 4921.		11:14:51.056	10715	370	-10.3	13777.	RRCSM	Downlink	11:14:45.907	DCCH	ACTIVE_SET_UPDATE
				4922.	-74.4	11:14:51.600	10715	370		13778.	RRCSM	Uplink	11:14:45.919	DCCH	ACTIVE_SET_UPDATE_COMPLETE
				4923.		11:14:51.600	10715	370	-12.4	13779.	RRCSM	Downlink	11:14:46.017	DCCH	MEASUREMENT_CONTROL
				4924.	-72.1	11:14:52.056	10715	370		13780.	RRCSM	Downlink	11:14:49.077	DCCH	DOWNLINK_DIRECT_TRANSFER
				4925.		11:14:52.056	10715	370	-11.1	13781.	L3SM	Downlink	11:14:49.077	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
				4926.	-74.6	11:14:52.484	10715	370		13782.	RRCSM	Uplink	11:14:49.115	DCCH	UPLINK_DIRECT_TRANSFER
				4927.		11:14:52.484	10715	370	-7.9	13783.	L3SM	Uplink	11:14:49.115	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
				4928.	-77	11:14:53.058	10715	370		13784.	RRCSM	Downlink	11:14:49.367	DCCH	SECURITY_MODE_COMMAND
				4929.		11:14:53.058	10715	370	-13.5	13785.	RRCSM	Uplink	11:14:49.368	DCCH	SECURITY_MODE_COMPLETE
				4930.	-75.2	11:14:53.740	10715	365		13786.	RRCSM	Downlink	11:14:49.697	DCCH	DOWNLINK_DIRECT_TRANSFER
				4931.		11:14:53.740	10715	365	-13.7	13787.	L3SM	Downlink	11:14:49.697	DCCH	ROUTING_AREA_UPDATE_ACCEPT
				4932.	-77.2	11:14:54.188	10715	370		13788.	RRCSM	Uplink	11:14:49.700	DCCH	UPLINK_DIRECT_TRANSFER
				4933.		11:14:54.188	10715	370	-11.8	13789.	L3SM	Uplink	11:14:49.700	DCCH	ROUTING_AREA_UPDATE_COMPLETE
				4934.	-77.8	11:14:54.484	10715	370		13790.	RRCSM	Downlink	11:14:55.917	DCCH	RADIO_BEARER_SETUP
				4935.		11:14:54.484	10715	370	-13.6	13791.	RRCSM	Uplink	11:14:56.151	DCCH	RADIO_BEARER_SETUP_COMPLETE
				4936.	-75.4	11:14:55.188	10715	365		13792.	RRCSM	Downlink	11:14:56.397	DCCH	MEASUREMENT_CONTROL
				4937.		11:14:55.188	10715	365	-11.9	13793.	RRCSM	Downlink	11:14:56.437	DCCH	MEASUREMENT_CONTROL
				4938.	-74.4	11:14:55.489	10715	365		13794.	RRCSM	Downlink	11:14:56.477	DCCH	MEASUREMENT_CONTROL
				4939.		11:14:55.489	10715	365	-13.5	13795.	RRCSM	Downlink	11:14:56.517	DCCH	MEASUREMENT_CONTROL
				4940.	-75.5	11:14:56.149	10715	370		13796.	RRCSM	Downlink	11:14:56.597	DCCH	DOWNLINK_DIRECT_TRANSFER
				4941.		11:14:56.149	10715	370	-9	13797.	L3SM	Downlink	11:14:56.597	DCCH	DISCONNECT
				4942.	-73.2	11:14:56.688	10715	365		13798.	RRCSM	Uplink	11:14:56.716	DCCH	UPLINK_DIRECT_TRANSFER
				4943.		11:14:56.688	10715	365	-9.3	13799.	L3SM	Uplink	11:14:56.716	DCCH	RELEASE
				4944.	-75.5	11:14:57.149	10715	365		13800.	RRCSM	Downlink	11:14:56.957	DCCH	DOWNLINK_DIRECT_TRANSFER
				4945.		11:14:57.149	10715	365	-12.1	13801.	L3SM	Downlink	11:14:56.957	DCCH	RELEASE_COMPLETE
				4946.	-75.9	11:14:57.667	10715	370		13802.	RRCSM	Downlink	11:14:57.117	DCCH	RADIO_BEARER_RELEASE
				4947.		11:14:57.667	10715	370	-8.4	13803.	RRCSM	Uplink	11:14:57.742	DCCH	MEASUREMENT_REPORT
				4948.	-74.9	11:14:58.450	10715	365		13804.	RRCSM	Uplink	11:14:57.910	DCCH	RADIO_BEARER_RELEASE_COMPLETE
				4949.		11:14:58.450	10715	365	-14.5	13805.	RRCSM	Downlink	11:14:58.157	DCCH	SIGNALING_CONNECTION_RELEASE
				4950.	-76.5	11:15:29.196	10690	370		13806.	RRCSM	Uplink	11:14:58.158	DCCH	INITIAL_DIRECT_TRANSFER
				4951.		11:15:29.196	10690	370	-15.7	13807.	L3SM	Uplink	11:14:58.158	DCCH	LOCATION_UPDATING_REQUEST
				4952.	-71.3	11:15:29.561	10690	370		13808.	RRCSM	Downlink	11:14:58.197	DCCH	RRC_CONNECTION_RELEASE

Analysis:

- This call failure event occurred on short call at 11:14:56:716 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 365 and RF condition RSCP -73.2 dBm and ECNO -9.3 dB both are good.
- Need to check MT End.

Phase-2 Call Attempt Failure Analysis 5 From MS8 CWC MT

	Time	Cell type	Band	Band (MHz)	Ch	PCI	RSRP	SNR	▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name
5214.	11:14:49.743							5.2		13364.	RRC	LTE FDD	Downlink	11:14:14.437	DCCH	RRCConnectionReconfiguration
5215.	11:14:50.329	Serving	B3	1800	1849	34	-89.8			13365.	RRC	LTE FDD	Uplink	11:14:14.439	DCCH	RRCConnectionReconfigurationComplete
5216.	11:14:50.329							3.3		13366.	RRC	LTE FDD	Downlink	11:14:14.468	DCCH	RRCConnectionReconfiguration
5217.	11:14:50.783	Serving	B3	1800	1849	34	-91.3			13367.	RRC	LTE FDD	Uplink	11:14:14.478	DCCH	RRCConnectionReconfigurationComplete
5218.	11:14:50.783							0.9		13368.	RRC	LTE FDD	Downlink	11:14:14.522	DCCH	RRCConnectionReconfiguration
5219.	11:14:51.244	Serving	B3	1800	1849	34	-90.3			13369.	RRC	LTE FDD	Uplink	11:14:14.523	DCCH	RRCConnectionReconfigurationComplete
5220.	11:14:51.244							3.2		13370.	RRC	LTE FDD	Downlink	11:14:14.588	DCCH	DLInformationTransfer
5221.	11:14:51.583	Serving	B3	1800	1849	34	-90.1			13371.	L3SM	LTE FDD	Downlink	11:14:14.589		MODIFY_EPS_BEARER_CONTEXT_REQUEST
5222.	11:14:51.583							1.4		13372.	L3SM	LTE FDD	Uplink	11:14:14.591		MODIFY_EPS_BEARER_CONTEXT_ACCEPT
5223.	11:14:52.197	Serving	B3	1800	1849	34	-90.9			13373.	RRC	LTE FDD	Uplink	11:14:14.591	DCCH	ULInformationTransfer
5224.	11:14:52.197							3.6		13374.	RRC	LTE FDD	Uplink	11:14:15.078	DCCH	MeasurementReport
5225.	11:14:52.844	Serving	B3	1800	1849	34	-91			13375.	RRC	LTE FDD	Uplink	11:14:15.078	DCCH	MeasurementReport
5226.	11:14:52.844							1.4		13376.	RRC	LTE FDD	Downlink	11:14:18.917	PCCH	Paging
5227.	11:14:53.347	Serving	B3	1800	1849	34	-91.1			13377.	RRC	LTE FDD	Downlink	11:14:21.477	PCCH	Paging
5228.	11:14:53.347							1.2		13378.	RRC	LTE FDD	Downlink	11:14:27.877	PCCH	Paging
5229.	11:14:54.061	Serving	B3	1800	1849	34	-89.8			13379.	RRC	LTE FDD	Downlink	11:14:29.157	PCCH	Paging
5230.	11:14:54.061							2.9		13380.	RRC	LTE FDD	Downlink	11:14:32.997	PCCH	Paging
5231.	11:14:54.383	Serving	B3	1800	1849	34	-90.6			13381.	RRC	LTE FDD	Downlink	11:14:35.557	PCCH	Paging
5232.	11:14:54.383							0.2		13382.	RRC	LTE FDD	Downlink	11:14:36.837	PCCH	Paging
5233.	11:14:55.060	Serving	B3	1800	1849	34	-90.8			13383.	RRC	LTE FDD	Downlink	11:14:40.677	PCCH	Paging
5234.	11:14:55.060							4.9		13384.	RRC	LTE FDD	Downlink	11:14:43.237	PCCH	Paging
5235.	11:14:55.329	Serving	B3	1800	1849	34	-90.1			13385.	RRC	LTE FDD	Downlink	11:14:44.517	PCCH	Paging
5236.	11:14:55.329							5.6		13386.	RRC	LTE FDD	Downlink	11:14:47.077	PCCH	Paging
5237.	11:14:56.058	Serving	B3	1800	1849	34	-91.5			13387.	RRC	LTE FDD	Downlink	11:14:49.637	PCCH	Paging
5238.	11:14:56.058							3.5		13388.	RRC	LTE FDD	Downlink	11:14:53.477	PCCH	Paging
5239.	11:14:56.361	Serving	B3	1800	1849	34	-89.7			13389.	RRC	LTE FDD	Downlink	11:14:54.757	PCCH	Paging
5240.	11:14:56.361							3.6		13390.	RRC	LTE FDD	Downlink	11:14:56.037	PCCH	Paging
5241.	11:14:57.005	Serving	B3	1800	1849	34	-90.8			13391.	RRC	LTE FDD	Downlink	11:15:02.437	PCCH	Paging
5242.	11:14:57.005							1.7		13392.	RRC	LTE FDD	Downlink	11:15:04.997	PCCH	Paging
5243.	11:14:57.639	Serving	B3	1800	1849	34	-92.8			13393.	RRC	LTE FDD	Downlink	11:15:12.677	PCCH	Paging
5244.	11:14:57.639							1.6		13394.	RRC	LTE FDD	Downlink	11:15:15.237	PCCH	Paging
5245.	11:14:58.061	Serving	B3	1800	1849	34	-91.7			13395.	RRC	LTE FDD	Downlink	11:15:17.797	PCCH	Paging
5246.	11:14:58.061							7.7		13396.	RRC	LTE FDD	Downlink	11:15:20.357	PCCH	Paging
5247.	11:14:58.547	Serving	B3	1800	1849	34	-89.9			13397.	RRC	LTE FDD	Downlink	11:15:26.757	PCCH	Paging
5248.	11:14:58.547							0.8		13398.	RRC	LTE FDD	Downlink	11:15:30.597	PCCH	Paging
5249.	11:14:59.242	Serving	B3	1800	1849	34	-90.3			13399.	RRC	LTE FDD	Downlink	11:15:31.877	PCCH	Paging
5250.	11:14:59.242							4.6		13400.	RRC	LTE FDD	Downlink	11:15:33.157	PCCH	Paging

Analysis:

- During the setup fail, UE was latched with PCI 34 and RF condition RSRP -89.7 dBm and SNR 3.6 dB both are good.
- On both MO And MT Side, RF Conditions seems OK Also there is no abnormal message regarding failure.
- Need to check from Network End.

Phase-2 Call Attempt Failure Analysis 6 From MS7 CWC MO

	Time	System	Serving band	Call		1. best active RSCP	Time	Ch	SC	1. best active ▲	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	10:29:10.710	UMTS FDD	2100	Dro	4956.	-73.2	11:15:30.987	10690	370		13941.	RRCSM	UMTS FDD	Uplink	11:15:34.704	DCCH	SECURITY_MODE_COMPLETE
2.	10:32:41.816	GSM	900	Dro	4957.		11:15:30.987	10690	365	-9.6	13942.	RRCSM	UMTS FDD	Uplink	11:15:34.771	DCCH	MEASUREMENT_REPORT
3.	10:34:15.918	UMTS FDD	2100	Dro	4958.	-76.2	11:15:31.316	10690	370		13943.	RRCSM	UMTS FDD	Uplink	11:15:34.771	DCCH	MEASUREMENT_REPORT
4.	10:38:31.068	UMTS FDD	2100	Dro	4959.		11:15:31.316	10690	365	-9.9	13944.	RRCSM	UMTS FDD	Downlink	11:15:34.863	DCCH	ACTIVE_SET_UPDATE
5.	11:14:56.716	UMTS FDD	2100	Dro	4960.	-75.6	11:15:31.986	10690	370		13945.	RRCSM	UMTS FDD	Uplink	11:15:34.895	DCCH	ACTIVE_SET_UPDATE_COMPLETE
6.	11:15:37.961	UMTS FDD	2100	Dro	4961.		11:15:31.986	10690	370	-8.7	13946.	RRCSM	UMTS FDD	Downlink	11:15:35.043	DCCH	ACTIVE_SET_UPDATE
					4962.	-72.2	11:15:32.524	10690	370		13947.	RRCSM	UMTS FDD	Uplink	11:15:35.055	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4963.		11:15:32.524	10690	370	-8.4	13948.	RRCSM	UMTS FDD	Downlink	11:15:35.083	DCCH	DOWNLINK_DIRECT_TRANSFER
					4964.	-67.4	11:15:33.020	10690	365		13949.	L3SM	UMTS FDD	Downlink	11:15:35.083	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					4965.		11:15:33.020	10690	365	-13.5	13950.	RRCSM	UMTS FDD	Uplink	11:15:35.086	DCCH	UPLINK_DIRECT_TRANSFER
					4966.	-71.5	11:15:33.524	10690	365		13951.	L3SM	UMTS FDD	Uplink	11:15:35.086	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					4967.		11:15:33.524	10690	365	-14	13952.	RRCSM	UMTS FDD	Downlink	11:15:35.143	DCCH	MEASUREMENT_CONTROL
					4968.	-70.4	11:15:34.067	10690	370		13953.	RRCSM	UMTS FDD	Uplink	11:15:36.737	DCCH	MEASUREMENT_REPORT
					4969.		11:15:34.067	10690	370	-12.2	13954.	RRCSM	UMTS FDD	Downlink	11:15:36.833	DCCH	ACTIVE_SET_UPDATE
					4970.	-70.4	11:15:34.516	10690	365		13955.	RRCSM	UMTS FDD	Uplink	11:15:36.865	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4971.		11:15:34.516	10690	365	-13.2	13956.	RRCSM	UMTS FDD	Uplink	11:15:37.186	DCCH	MEASUREMENT_REPORT
					4972.	-74	11:15:35.057	10690	365		13957.	RRCSM	UMTS FDD	Downlink	11:15:37.193	DCCH	RADIO_BEARER_SETUP
					4973.		11:15:35.057	10690	370	-14.1	13958.	RRCSM	UMTS FDD	Uplink	11:15:37.427	DCCH	RADIO_BEARER_SETUP_COMPLETE
					4974.	-71.7	11:15:35.563	10690	365		13959.	RRCSM	UMTS FDD	Downlink	11:15:37.673	DCCH	MEASUREMENT_CONTROL
					4975.		11:15:35.563	10690	365	-9.7	13960.	RRCSM	UMTS FDD	Downlink	11:15:37.713	DCCH	MEASUREMENT_CONTROL
					4976.	-68.1	11:15:36.048	10690	365		13961.	RRCSM	UMTS FDD	Downlink	11:15:37.753	DCCH	MEASUREMENT_CONTROL
					4977.		11:15:36.048	10690	365	-14	13962.	RRCSM	UMTS FDD	Downlink	11:15:37.793	DCCH	MEASUREMENT_CONTROL
					4978.	-73	11:15:36.609	10690	370		13963.	RRCSM	UMTS FDD	Downlink	11:15:37.833	DCCH	ACTIVE_SET_UPDATE
					4979.		11:15:36.609	10690	370	-8.3	13964.	RRCSM	UMTS FDD	Uplink	11:15:37.865	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4980.	-63	11:15:37.058	10690	370		13965.	RRCSM	UMTS FDD	Downlink	11:15:37.913	DCCH	DOWNLINK_DIRECT_TRANSFER
					4981.		11:15:37.058	10690	370	-6.1	13966.	L3SM	UMTS FDD	Downlink	11:15:37.913	DCCH	DISCONNECT
					4982.	-70.1	11:15:37.524	10690	370		13967.	RRCSM	UMTS FDD	Uplink	11:15:37.961	DCCH	UPLINK_DIRECT_TRANSFER
					4983.		11:15:37.524	10690	365	-7.9	13968.	L3SM	UMTS FDD	Uplink	11:15:37.961	DCCH	RELEASE
					4984.	-77.4	11:15:38.059	10690	370		13969.	RRCSM	UMTS FDD	Uplink	11:15:38.177	DCCH	MEASUREMENT_REPORT
					4985.		11:15:38.059	10690	370	-11.4	13970.	RRCSM	UMTS FDD	Downlink	11:15:38.273	DCCH	RADIO_BEARER_RELEASE
					4986.	-67	11:15:38.564	10690	370		13971.	RRCSM	UMTS FDD	Downlink	11:15:38.313	DCCH	MEASUREMENT_CONTROL
					4987.		11:15:38.564	10690	370	-6.2	13972.	RRCSM	UMTS FDD	Downlink	11:15:38.353	DCCH	DOWNLINK_DIRECT_TRANSFER
					4988.	-73.5	11:15:39.106	10690	370		13973.	L3SM	UMTS FDD	Downlink	11:15:38.353	DCCH	RELEASE_COMPLETE
					4989.		11:15:39.106	10690	370	-6.5	13974.	RRCSM	UMTS FDD	Uplink	11:15:39.007	DCCH	MEASUREMENT_REPORT
					4990.	-79.6	11:15:39.877	10690	370		13975.	RRCSM	UMTS FDD	Uplink	11:15:39.106	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					4991.		11:15:39.877	10690	370	-9.6	13976.	RRCSM	UMTS FDD	Downlink	11:15:39.273	DCCH	SIGNALLING_CONNECTION_RELEASE
					4992.	-88.9	11:16:09.313	10690	20		13977.	RRCSM	UMTS FDD	Uplink	11:15:39.275	DCCH	INITIAL_DIRECT_TRANSFER

Analysis:

- This call failure event occurred on short call at 11:15:37:961 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 365 and RF condition RSCP -73.2 dBm and ECNO -9.3 dB both are good.
- Need to check MT End.

Phase-2 Call Attempt Failure Analysis 6 From MS8 CWC MT

	Time	Cell type	Band	Band (MHz)	Ch	PCI	RSRP	SNR	▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name
5364.	11:15:32.057	Serving	B3	1800	1849	34	-85.8			13381.	RRCSM	LTE FDD	Downlink	11:14:35.557	PCCH	Paging
5365.	11:15:32.057							3.2		13382.	RRCSM	LTE FDD	Downlink	11:14:36.837	PCCH	Paging
5366.	11:15:32.667	Serving	B3	1800	1849	34	-82.4			13383.	RRCSM	LTE FDD	Downlink	11:14:40.677	PCCH	Paging
5367.	11:15:32.667							5.6		13384.	RRCSM	LTE FDD	Downlink	11:14:43.237	PCCH	Paging
5368.	11:15:33.157	Serving	B3	1800	1849	34	-81.4			13385.	RRCSM	LTE FDD	Downlink	11:14:44.517	PCCH	Paging
5369.	11:15:33.157							7.7		13386.	RRCSM	LTE FDD	Downlink	11:14:47.077	PCCH	Paging
5370.	11:15:33.647	Serving	B3	1800	1849	34	-82.5			13387.	RRCSM	LTE FDD	Downlink	11:14:49.637	PCCH	Paging
5371.	11:15:33.647							0.6		13388.	RRCSM	LTE FDD	Downlink	11:14:53.477	PCCH	Paging
5372.	11:15:34.114	Serving	B3	1800	1849	34	-85.9			13389.	RRCSM	LTE FDD	Downlink	11:14:54.757	PCCH	Paging
5373.	11:15:34.114							3		13390.	RRCSM	LTE FDD	Downlink	11:14:56.037	PCCH	Paging
5374.	11:15:34.753	Serving	B3	1800	1849	34	-91.1			13391.	RRCSM	LTE FDD	Downlink	11:15:02.437	PCCH	Paging
5375.	11:15:34.753							1.6		13392.	RRCSM	LTE FDD	Downlink	11:15:04.997	PCCH	Paging
5376.	11:15:35.465	Serving	B3	1800	1849	34	-85.1			13393.	RRCSM	LTE FDD	Downlink	11:15:12.677	PCCH	Paging
5377.	11:15:35.465							4.7		13394.	RRCSM	LTE FDD	Downlink	11:15:15.237	PCCH	Paging
5378.	11:15:36.047	Serving	B3	1800	1849	34	-85.8			13395.	RRCSM	LTE FDD	Downlink	11:15:17.797	PCCH	Paging
5379.	11:15:36.047							6.1		13396.	RRCSM	LTE FDD	Downlink	11:15:20.357	PCCH	Paging
5380.	11:15:36.362	Serving	B3	1800	1849	34	-85.1			13397.	RRCSM	LTE FDD	Downlink	11:15:26.757	PCCH	Paging
5381.	11:15:36.362							4		13398.	RRCSM	LTE FDD	Downlink	11:15:30.597	PCCH	Paging
5382.	11:15:36.747	Serving	B3	1800	1849	34	-84.8			13399.	RRCSM	LTE FDD	Downlink	11:15:31.877	PCCH	Paging
5383.	11:15:36.747							2.4		13400.	RRCSM	LTE FDD	Downlink	11:15:33.157	PCCH	Paging
5384.	11:15:37.314	Serving	B3	1800	1849	34	-86.9			13401.	RRCSM	LTE FDD	Downlink	11:15:34.437	PCCH	Paging
5385.	11:15:37.314							5.2		13402.	RRCSM	LTE FDD	Downlink	11:15:36.997	PCCH	Paging
5386.	11:15:38.047	Serving	B3	1800	1849	34	-87.3			13403.	RRCSM	LTE FDD	Downlink	11:15:38.277	PCCH	Paging
5387.	11:15:38.047							3.6		13404.	RRCSM	LTE FDD	Uplink	11:15:39.558	DCCH	MeasurementReport
5388.	11:15:38.329	Serving	B3	1800	1849	34	-80.5			13405.	RRCSM	LTE FDD	Downlink	11:15:43.680	BCCH-BCH	MasterInformationBlock
5389.	11:15:38.329							3.3		13406.	RRCSM	LTE FDD	Downlink	11:15:43.703	BCCH-SCH	SystemInformationBlockType1
5390.	11:15:38.963	Serving	B3	1800	1849	34	-88.4			13407.	RRCSM	LTE FDD	Downlink	11:15:43.790	BCCH-BCH	MasterInformationBlock
5391.	11:15:38.963							3.3		13408.	RRCSM	LTE FDD	Downlink	11:15:43.823	BCCH-SCH	SystemInformationBlockType1
5392.	11:15:39.676	Serving	B3	1800	1849	34	-92.4			13409.	RRCSM	LTE FDD	Downlink	11:15:43.860	BCCH-SCH	SystemInformation - SIB2,SIB3
5393.	11:15:39.676							2.6		13410.	RRCSM	LTE FDD	Uplink	11:15:43.869	CCCH	RRCCConnectionReestablishmentRequest
5394.	11:15:40.179	Serving	B3	1800	1849	34	-92.4			13411.	RRCSM	LTE FDD	Downlink	11:15:43.905	CCCH	RRCCConnectionReestablishmentReject
5395.	11:15:40.179							1.7		13412.	L3SM	LTE FDD	Uplink	11:15:43.993		TRACKING_AREA_UPDATE_REQUEST
5396.	11:15:40.701	Serving	B3	1800	1849	34	-91			13413.	RRCSM	LTE FDD	Uplink	11:15:43.995	CCCH	RRCCConnectionRequest
5397.	11:15:40.701							1.8		13414.	RRCSM	LTE FDD	Downlink	11:15:44.045	CCCH	RRCCConnectionSetup
5398.	11:15:41.219	Serving	B3	1800	1849	34	-90.6			13415.	RRCSM	LTE FDD	Uplink	11:15:44.049	DCCH	RRCCConnectionSetupComplete
5399.	11:15:41.219							2.3		13416.	RRCSM	LTE FDD	Downlink	11:15:44.060	BCCH-SCH	SystemInformation - SIB5
5400.	11:15:41.751	Serving	B3	1800	1849	34	-84.6			13417.	RRCSM	LTE FDD	Downlink	11:15:44.064	DCCH	DLInformationTransfer

Analysis:

- During the setup fail, UE was latched with PCI 34 and RF condition RSRP -86.9 dBm and SNR 5.2 dB both are good.
- On both MO And MT Side, RF Conditions seems OK Also there is no abnormal message regarding failure.
- Need to check from Network End.

Phase-2 Call Drop Analysis 1 From MS9 Airtel MO

	Time	System	Serving band		Time	RxLev	sub	ARFCN	BSIC	LAC	RAC	RXQ	sl		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	10:52:16.136	GSM	900	1448.	10:52:02.068	-98		94	60	50000	1				4734.	L3SM	GSM	Uplink	10:52:04.468	SACCH	MEASUREMENT_REPORT
2.	11:03:15.422	UMTS FDD	2100	1449.	10:52:02.996	-99		94	60	50000	1				4735.	L3SM	GSM	Uplink	10:52:04.948	SACCH	MEASUREMENT_REPORT
3.	11:06:37.375	GSM	900	1450.	10:52:03.512	-99		94	60	50000	1				4736.	L3SM	GSM	Uplink	10:52:05.428	SACCH	MEASUREMENT_REPORT
				1451.	10:52:03.988	-100		94	60	50000	1				4737.	L3SM	GSM	Uplink	10:52:05.908	SACCH	MEASUREMENT_REPORT
				1452.	10:52:04.996	-99		94	60	50000	1				4738.	L3SM	GSM	Uplink	10:52:06.388	SACCH	MEASUREMENT_REPORT
				1453.	10:52:05.433	-100		94	60	50000	1				4739.	L3SM	GSM	Uplink	10:52:06.868	SACCH	MEASUREMENT_REPORT
				1454.	10:52:05.936	-100		94	60	50000	1				4740.	L3SM	GSM	Uplink	10:52:07.348	SACCH	MEASUREMENT_REPORT
				1455.	10:52:06.388	-99		94	60	50000	1				4741.	L3SM	GSM	Uplink	10:52:07.828	SACCH	MEASUREMENT_REPORT
				1456.	10:52:07.094	-100		94	60	50000	1				4742.	L3SM	GSM	Uplink	10:52:08.308	SACCH	MEASUREMENT_REPORT
				1457.	10:52:07.348	-100		94	60	50000	1				4743.	L3SM	GSM	Uplink	10:52:08.788	SACCH	MEASUREMENT_REPORT
				1458.	10:52:08.132	-100		94	60	50000	1				4744.	L3SM	GSM	Uplink	10:52:09.268	SACCH	MEASUREMENT_REPORT
				1459.	10:52:08.396	-100		94	60	50000	1				4745.	L3SM	GSM	Uplink	10:52:09.748	SACCH	MEASUREMENT_REPORT
				1460.	10:52:09.066	-100		94	60	50000	1				4746.	L3SM	GSM	Uplink	10:52:10.228	SACCH	MEASUREMENT_REPORT
				1461.	10:52:09.776	-100		94	60	50000	1				4747.	L3SM	GSM	Uplink	10:52:10.708	SACCH	MEASUREMENT_REPORT
				1462.	10:52:10.569	-99		94	60	50000	1				4748.	L3SM	GSM	Uplink	10:52:11.188	SACCH	MEASUREMENT_REPORT
				1463.	10:52:11.073	-99		94	60	50000	1				4749.	L3SM	GSM	Uplink	10:52:11.668	SACCH	MEASUREMENT_REPORT
				1464.	10:52:11.534	-100		94	60	50000	1				4750.	L3SM	GSM	Uplink	10:52:12.148	SACCH	MEASUREMENT_REPORT
				1465.	10:52:12.092	-100		94	60	50000	1				4751.	L3SM	GSM	Uplink	10:52:12.628	SACCH	MEASUREMENT_REPORT
				1466.	10:52:12.628	-100		94	60	50000	1				4752.	L3SM	GSM	Uplink	10:52:13.108	SACCH	MEASUREMENT_REPORT
				1467.	10:52:13.108	-99		94	60	50000	1				4753.	L3SM	GSM	Uplink	10:52:13.588	SACCH	MEASUREMENT_REPORT
				1468.	10:52:13.588	-100		94	60	50000	1				4754.	L3SM	GSM	Uplink	10:52:14.068	SACCH	MEASUREMENT_REPORT
				1469.	10:52:14.294	-100		94	60	50000	1				4755.	L3SM	GSM	Uplink	10:52:14.548	SACCH	MEASUREMENT_REPORT
				1470.	10:52:14.996	-100		94	60	50000	1				4756.	L3SM	GSM	Uplink	10:52:15.028	SACCH	MEASUREMENT_REPORT
				1471.	10:52:15.067	-100		94	60	50000	1				4757.	L3SM	GSM	Uplink	10:52:15.481	DCCH	CM_RE-ESTABLISHMENT_REQUEST
				1472.	10:52:15.549										4758.	L3SM	GSM	Downlink	10:52:15.909	BCCH	SYSTEM_INFORMATION_TYPE_3
				1473.	10:52:19.232					50000	1				4759.	L3SM	GSM	Downlink	10:52:20.183	BCCH	SYSTEM_INFORMATION_TYPE_4
				1474.	10:53:46.595							2			4760.	L3SM	GSM	Downlink	10:52:49.163	BCCH	SYSTEM_INFORMATION_TYPE_3
				1475.	10:53:47.075	-93		97	43	60000	1				4761.	L3SM	GSM	Downlink	10:52:49.361	BCCH	SYSTEM_INFORMATION_TYPE_3
				1476.	10:53:47.075							6			4762.	RRCSM	LTE FDD	Downlink	10:52:54.211	BCCH-BCH	MasterInformationBlock
				1477.	10:53:47.555	-95		97	43	50000	1				4763.	RRCSM	LTE FDD	Downlink	10:52:54.235	BCCH-SCH	SystemInformationBlockType1
				1478.	10:53:47.555							5			4764.	RRCSM	LTE FDD	Downlink	10:52:54.235	BCCH-SCH	SystemInformation - SIB2,SIB3
				1479.	10:53:48.035							4			4765.	L3SM	LTE FDD	Uplink	10:52:54.249		TRACKING_AREA_UPDATE_REQUEST
				1480.	10:53:48.066	-91		97	43	50000	1				4766.	RRCSM	LTE FDD	Uplink	10:52:54.249	CCCH	RRCCConnectionRequest
				1481.	10:53:48.515							0			4767.	RRCSM	LTE FDD	Downlink	10:52:54.275	BCCH-SCH	SystemInformationBlockType1
				1482.	10:53:48.579	-89		97	43	50000	1				4768.	RRCSM	LTE FDD	Downlink	10:52:54.294	CCCH	RRCCConnectionSetup
				1483.	10:53:48.995							1			4769.	RRCSM	LTE FDD	Uplink	10:52:54.299	DCCH	RRCCConnectionSetupComplete

Analysis:

- This call drop event occurred on long call at 10:52:16:136 time when UE was latched with 2G network.
- After getting Alerting message at 10:50:36:027 time than Call drop happened.
- During the session UE was latched with ARFCN 94 and RF condition Rx Level -100 dBm is poor and Rx Qual 0 dB which is ok.
- As per the analysis call failed happened due to poor coverage of the network.

Phase-2 Call Drop Analysis 2 From MS9 Airtel MO

	Time	System	Serving band	Call t	1. best active RSCP	Time	Ch	SC	1. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name	▲
1.	10:52:16.136	GSM	900	Voice	4696, -118.2	11:03:11.062	10562	485		6699,	RRCSM	UMTS FDD	Downlink	11:03:12.601	BCCH_BCH	SYSTEM_INFORMATION_BLOCK	
2.	11:03:15.422	UMTS FDD	2100	Voice	4697, -118.2	11:03:11.062	10562	485	-22	6700,	RRCSM	UMTS FDD	Downlink	11:03:12.601	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_1	
3.	11:06:37.375	GSM	900	Voice	4698, -118.2	11:03:11.205	10562	485		6701,	RRCSM	UMTS FDD	Downlink	11:03:12.641	BCCH_BCH	SYSTEM_INFORMATION_BLOCK	
					4699, -114.2	11:03:11.205	10562	485	-22	6702,	RRCSM	UMTS FDD	Downlink	11:03:12.641	BCCH_BCH	MASTER_INFORMATION_BLOCK	
					4700, -114.2	11:03:11.322	10562	485		6703,	RRCSM	UMTS FDD	Downlink	11:03:12.721	BCCH_BCH	SYSTEM_INFORMATION_BLOCK	
					4701, -106.4	11:03:11.322	10562	485	-18.5	6704,	RRCSM	UMTS FDD	Downlink	11:03:12.721	BCCH_BCH	MASTER_INFORMATION_BLOCK	
					4702, -106.4	11:03:11.996	10562	88		6705,	RRCSM	UMTS FDD	Downlink	11:03:12.761	BCCH_BCH	SYSTEM_INFORMATION_BLOCK	
					4703, -106.4	11:03:11.996	10562	88	-11.4	6706,	RRCSM	UMTS FDD	Downlink	11:03:12.831	DCCH	MEASUREMENT_CONTROL	
					4704, -101.2	11:03:12.178	10562	88		6707,	RRCSM	UMTS FDD	Downlink	11:03:12.881	BCCH_BCH	SYSTEM_INFORMATION_BLOCK	
					4705, -101.2	11:03:12.178	10562	88	-11.4	6708,	RRCSM	UMTS FDD	Downlink	11:03:12.881	BCCH_BCH	MASTER_INFORMATION_BLOCK	
					4706, -113.3	11:03:12.473	10562	88		6709,	RRCSM	UMTS FDD	Uplink	11:03:12.885	DCCH	MEASUREMENT_REPORT	
					4707, -113.3	11:03:12.473	10562	88	-11.3	6710,	RRCSM	UMTS FDD	Downlink	11:03:12.901	BCCH_BCH	SYSTEM_INFORMATION_BLOCK	
					4708, -113.3	11:03:12.885	10562	88		6711,	RRCSM	UMTS FDD	Downlink	11:03:12.901	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3	
					4709, -113.3	11:03:12.885	10562	88	-11.3	6712,	RRCSM	UMTS FDD	Downlink	11:03:12.901	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_7	
					4710, -114.6	11:03:12.996	10562	88		6713,	RRCSM	UMTS FDD	Downlink	11:03:12.991	DCCH	MEASUREMENT_CONTROL	
					4711, -122.2	11:03:12.996	10562	88	-17.6	6714,	RRCSM	UMTS FDD	Downlink	11:03:12.992	DCCH	ACTIVE_SET_UPDATE	
					4712, -122.2	11:03:13.195	10562	88		6715,	RRCSM	UMTS FDD	Uplink	11:03:13.033	DCCH	ACTIVE_SET_UPDATE_COMPLETE	
					4713, -122	11:03:13.195	10562	88	-17.6	6716,	RRCSM	UMTS FDD	Uplink	11:03:13.195	DCCH	MEASUREMENT_REPORT	
					4714, -122	11:03:13.635	10562	88		6717,	RRCSM	UMTS FDD	Uplink	11:03:13.296	DCCH	MEASUREMENT_REPORT	
					4715, -122	11:03:13.635	10562	88	-15.6	6718,	RRCSM	UMTS FDD	Downlink	11:03:13.351	DCCH	MEASUREMENT_CONTROL	
					4716, -122	11:03:14.064	10562	88		6719,	RRCSM	UMTS FDD	Downlink	11:03:13.591	DCCH	MEASUREMENT_CONTROL	
					4717, -122	11:03:14.064	10562	88	-24.5	6720,	RRCSM	UMTS FDD	Downlink	11:03:15.231	DCCH	DOWNLINK_DIRECT_TRANSFER	
					4718, -122	11:03:14.632	10562	88		6721,	L3SM	UMTS FDD	Downlink	11:03:15.231	DCCH	DISCONNECT	
					4719, -122	11:03:14.632	10562	88	-24.4	6722,	RRCSM	UMTS FDD	Uplink	11:03:15.232	DCCH	UPLINK_DIRECT_TRANSFER	
					4720, -124.5	11:03:15.064	10562	88		6723,	L3SM	UMTS FDD	Uplink	11:03:15.232	DCCH	RELEASE	
					4721, -119.9	11:03:15.632	10562	88		6724,	RRCSM	UMTS FDD	Downlink	11:03:15.951	DCCH	RRC_CONNECTION_RELEASE	
					4722, -119.9	11:03:15.632	10562	88	-24.4	6725,	RRCSM	UMTS FDD	Uplink	11:03:15.952	DCCH	RRC_CONNECTION_RELEASE_COMPLETE	
					4723, -119.9	11:03:16.289	10562	88		6726,	RRCSM	UMTS FDD	Uplink	11:03:15.992	DCCH	RRC_CONNECTION_RELEASE_COMPLETE	
					4724, -119.9	11:03:16.289	10562	88	-19.1	6727,	RRCSM	UMTS FDD	Downlink	11:03:16.031	DCCH	RRC_CONNECTION_RELEASE	
					4725, -119.9	11:03:16.810	10562	88		6728,	RRCSM	LTE FDD	Downlink	11:03:16.195	BCCH-BCH	MasterInformationBlock	
					4726, -119.9	11:03:16.810	10562	88	-19.1	6729,	RRCSM	LTE FDD	Downlink	11:03:16.598	BCCH-BCH	MasterInformationBlock	
					4727, -119.9	11:03:17.290	10562	88		6730,	RRCSM	LTE FDD	Downlink	11:03:17.024	BCCH-BCH	MasterInformationBlock	
					4728, -87	11:03:17.290	10562	88	-19.1	6731,	RRCSM	LTE FDD	Downlink	11:03:17.504	BCCH-BCH	MasterInformationBlock	
					4729, -87	11:05:36.171	3050	121		6732,	RRCSM	LTE FDD	Downlink	11:03:17.538	BCCH-SCH	SystemInformationBlockType1	
					4730, -87	11:05:36.171	3050	121	-6.5	6733,	RRCSM	LTE FDD	Downlink	11:03:17.538	BCCH-SCH	SystemInformation - SIB2, SIB3	
					4731, -87	11:05:36.449	3050	121		6734,	RRCSM	LTE FDD	Downlink	11:03:17.634	BCCH-BCH	MasterInformationBlock	

Analysis:

- This call drop event occurred on long call at 11:03:15:422 time when UE was latched with 3G network.
- After getting Alerting message at 11:02:51:951 time than Call drop happened.
- During the session UE was latched with PSC 88 and RF condition RSCP -124.5 dBm and Ec/No -24.4 dB both are poor.
- As per the analysis call failed happened due to poor coverage of the network.

Phase-2 Call Drop Analysis 3 From MS9 Airtel MO

	Time	System	Serving band		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sl		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	10:52:16.136	GSM	900	1862.	11:01:46.838	-95	102	46	50000	1			7013.	RRCSM	UMTS FDD	Uplink	11:06:30.318	DCCH	MEASUREMENT_REPORT
2.	11:03:15.422	UMTS FDD	2100	1863.	11:01:47.216	-94	102	46	50000	1			7014.	RRCSM	UMTS FDD	Downlink	11:06:30.397	DCCH	MEASUREMENT_CONTROL
3.	11:06:37.375	GSM	900	1864.	11:01:47.530	-94	102	46	50000	1			7015.	RRCSM	UMTS FDD	Uplink	11:06:30.433	DCCH	MEASUREMENT_REPORT
				1865.	11:01:48.232	-95	102	46	50000	1			7016.	RRCSM	UMTS FDD	Downlink	11:06:30.436	DCCH	MEASUREMENT_CONTROL
				1866.	11:01:48.692	-95	102	46	50000	1			7017.	RRCSM	UMTS FDD	Downlink	11:06:30.677	DCCH	MEASUREMENT_CONTROL
				1867.	11:01:49.667	-95	102	46	50000	1			7018.	RRCSM	UMTS FDD	Downlink	11:06:30.757	DCCH	HANDOVER_FROM_UTRAN_COMMAND_GSM
				1868.	11:01:50.332	-95	102	46	50000	1			7019.	L3SM	UMTS FDD	Downlink	11:06:30.757	DCCH	HANDOVER_COMMAND
				1869.	11:01:50.761	-95	102	46	50000	1			7020.	L3SM	GSM	Downlink	11:06:30.806	DCCH	HANDOVER_COMMAND
				1870.	11:01:51.352	-95	102	46	50000	1			7021.	L3SM	GSM	Downlink	11:06:30.931	DCCH	PHYSICAL_INFORMATION
				1871.	11:01:51.804	-95	102	46	50000	1			7022.	L3SM	GSM	Uplink	11:06:30.931	DCCH	HANDOVER_COMPLETE
				1872.	11:01:52.349	-95	102	46	50000	1			7023.	L3SM	GSM	Uplink	11:06:31.061	DCCH	GPRS_SUSPENSION_REQUEST
				1873.	11:01:52.759				50000	1			7024.	L3SM	GSM	Uplink	11:06:31.065	SACCH	MEASUREMENT_REPORT
				1874.	11:01:53.209				50000	1			7025.	L3SM	GSM	Uplink	11:06:31.545	SACCH	MEASUREMENT_REPORT
				1875.	11:01:53.907				50000	1			7026.	L3SM	GSM	Uplink	11:06:32.025	SACCH	MEASUREMENT_REPORT
				1876.	11:01:54.384				50000	1			7027.	L3SM	GSM	Uplink	11:06:32.505	SACCH	MEASUREMENT_REPORT
				1877.	11:01:58.509				50000	1			7028.	L3SM	GSM	Uplink	11:06:32.985	SACCH	MEASUREMENT_REPORT
				1878.	11:06:31.065						7		7029.	L3SM	GSM	Uplink	11:06:33.465	SACCH	MEASUREMENT_REPORT
				1879.	11:06:31.088	-94	117	17	60000	1			7030.	L3SM	GSM	Uplink	11:06:33.945	SACCH	MEASUREMENT_REPORT
				1880.	11:06:31.999	-93	117	17	60000	1			7031.	L3SM	GSM	Uplink	11:06:34.425	SACCH	MEASUREMENT_REPORT
				1881.	11:06:32.390	-94	117	17	60000	1			7032.	L3SM	GSM	Uplink	11:06:34.905	SACCH	MEASUREMENT_REPORT
				1882.	11:06:35.593	-92	117	17	60000	1			7033.	L3SM	GSM	Uplink	11:06:35.385	SACCH	MEASUREMENT_REPORT
				1883.	11:06:35.999	-94	117	17	60000	1			7034.	L3SM	GSM	Uplink	11:06:35.865	SACCH	MEASUREMENT_REPORT
				1884.	11:06:36.391	-92	117	17	60000	1			7035.	L3SM	GSM	Uplink	11:06:36.345	SACCH	MEASUREMENT_REPORT
				1885.	11:06:37.374	-93	117	17	60000	1			7036.	L3SM	GSM	Uplink	11:06:36.825	SACCH	MEASUREMENT_REPORT
				1886.	11:06:37.374								7037.	L3SM	GSM	Uplink	11:06:37.305	SACCH	MEASUREMENT_REPORT
				1887.	11:06:42.183				60000	1			7038.	L3SM	GSM	Uplink	11:06:37.376	DCCH	LOCATION_UPDATING_REQUEST
				1888.	11:07:13.999	-87	93		50000	1			7039.	L3SM	GSM	Downlink	11:06:45.699	BCCH	SYSTEM_INFORMATION_TYPE_4
				1889.	11:07:15.075				50000	1			7040.	L3SM	GSM	Downlink	11:06:45.828	BCCH	SYSTEM_INFORMATION_TYPE_3
				1890.	11:07:15.379				50000	1			7041.	L3SM	GSM	Downlink	11:06:46.096	BCCH	SYSTEM_INFORMATION_TYPE_3
				1891.	11:07:16.070	-89	110	25	50000	1			7042.	L3SM	GSM	Downlink	11:06:46.401	BCCH	SYSTEM_INFORMATION_TYPE_3
				1892.	11:07:16.602	-91	110	25	50000	1			7043.	L3SM	GSM	Downlink	11:06:46.770	BCCH	SYSTEM_INFORMATION_TYPE_3
				1893.	11:07:17.069	-91	110	25	50000	1			7044.	L3SM	GSM	Downlink	11:06:47.125	BCCH	SYSTEM_INFORMATION_TYPE_3
				1894.	11:07:17.636	-91	110	25	50000	1			7045.	L3SM	GSM	Downlink	11:06:47.970	BCCH	SYSTEM_INFORMATION_TYPE_3
				1895.	11:07:18.070	-91	110	25	50000	1			7046.	L3SM	GSM	Downlink	11:06:51.081	BCCH	SYSTEM_INFORMATION_TYPE_4
				1896.	11:07:18.379	-91	110	25	50000	1			7047.	L3SM	GSM	Uplink	11:06:52.619	DCCH	LOCATION_UPDATING_REQUEST
				1897.	11:07:19.071	-91	110	25	50000	1			7048.	L3SM	GSM	Downlink	11:07:13.022	BCCH	SYSTEM_INFORMATION_TYPE_3

Analysis:

- This call drop event occurred on long call at 11:06:37:375 time when UE was latched with 2G network.
- After getting Alerting message at 11:05:43:154 time than Call drop happened.
- During the session UE was latched with ARFCN 117 and RF condition Rx Level -93 dBm is poor and Rx Qual 0 dB which is ok.
- As per the analysis call failed happened due to poor coverage of the network.

Phase-2 Call Drop Analysis 1 From MS11 CWS MO

	Time	System	Serving band	Call type	1. best active RSCP	Time	Ch	SC	1. bes	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	10:44:53.249	UMTS FDD	2100	Voice call	907.	10:44:46.476	10690	221	-24.9	6996.	L3SM	UMTS FDD	Downlink	10:44:35.163	DCCH	ALERTING
					908.	10:44:47.056	10690	221	-100.6	6997.	RRCSM	UMTS FDD	Downlink	10:44:35.443	DCCH	DOWNLINK_DIRECT_TRANSFER
					909.	10:44:47.056	10690	221	-19.8	6998.	L3SM	UMTS FDD	Downlink	10:44:35.443	DCCH	CONNECT
					910.	10:44:47.436	10690	221	-98.8	6999.	RRCSM	UMTS FDD	Uplink	10:44:35.444	DCCH	UPLINK_DIRECT_TRANSFER
					911.	10:44:47.436	10690	221	-25.4	7000.	L3SM	UMTS FDD	Uplink	10:44:35.444	DCCH	CONNECT_ACKNOWLEDGE
					912.	10:44:48.062	10690	220	-94.9	7001.	RRCSM	UMTS FDD	Uplink	10:44:36.976	DCCH	MEASUREMENT_REPORT
					913.	10:44:48.062	10690	220	-18.8	7002.	RRCSM	UMTS FDD	Uplink	10:44:37.894	DCCH	MEASUREMENT_REPORT
					914.	10:44:48.376	10690	221	-100.3	7003.	RRCSM	UMTS FDD	Uplink	10:44:38.004	DCCH	MEASUREMENT_REPORT
					915.	10:44:48.376	10690	221	-23.1	7004.	RRCSM	UMTS FDD	Uplink	10:44:41.006	DCCH	MEASUREMENT_REPORT
					916.	10:44:49.032	10690	221	-99.1	7005.	RRCSM	UMTS FDD	Uplink	10:44:42.046	DCCH	MEASUREMENT_REPORT
					917.	10:44:49.032	10690	221	-25.1	7006.	RRCSM	UMTS FDD	Uplink	10:44:42.586	DCCH	MEASUREMENT_REPORT
					918.	10:44:49.773	10690	220	-94	7007.	RRCSM	UMTS FDD	Downlink	10:44:42.683	DCCH	RADIO_BEARER_RECONFIGURATION
					919.	10:44:49.773	10690	220	-25.4	7008.	RRCSM	UMTS FDD	Uplink	10:44:43.165	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
					920.	10:44:50.193	10690	220	-101.8	7009.	RRCSM	UMTS FDD	Uplink	10:44:43.257	DCCH	MEASUREMENT_REPORT
					921.	10:44:50.193	10690	220	-25.6	7010.	RRCSM	UMTS FDD	Downlink	10:44:43.763	DCCH	MEASUREMENT_CONTROL
					922.	10:44:50.473	10690	221	-92	7011.	RRCSM	UMTS FDD	Downlink	10:44:43.763	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					923.	10:44:50.473	10690	221	-24.9	7012.	RRCSM	UMTS FDD	Uplink	10:44:44.004	DCCH	MEASUREMENT_REPORT
					924.	10:44:51.060	10690	220	-95	7013.	RRCSM	UMTS FDD	Uplink	10:44:44.275	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE
					925.	10:44:51.060	10690	220	-25.6	7014.	RRCSM	UMTS FDD	Uplink	10:44:44.977	DCCH	MEASUREMENT_REPORT
					926.	10:44:51.833	10690	221	-93.2	7015.	RRCSM	UMTS FDD	Uplink	10:44:48.997	DCCH	MEASUREMENT_REPORT
					927.	10:44:51.833	10690	221	-24.7	7016.	RRCSM	UMTS FDD	Uplink	10:44:49.894	DCCH	MEASUREMENT_REPORT
					928.	10:44:52.274	10690	221	-95.2	7017.	RRCSM	UMTS FDD	Uplink	10:44:50.014	DCCH	MEASUREMENT_REPORT
					929.	10:44:52.274	10690	221	-21.8	7018.	RRCSM	UMTS FDD	Uplink	10:44:50.357	DCCH	MEASUREMENT_REPORT
					930.	10:44:52.856	10690	220	-93.7	7019.	RRCSM	UMTS FDD	Uplink	10:44:50.757	DCCH	MEASUREMENT_REPORT
					931.	10:44:52.856	10690	220	-24.5	7020.	RRCSM	UMTS FDD	Uplink	10:44:52.992	DCCH	MEASUREMENT_REPORT
					932.	10:44:53.255	10690	221	-93.3	7021.	RRCSM	UMTS FDD	Downlink	10:44:53.480	BCCH_BCH	SYSTEM_INFORMATION_BLOCK
					933.	10:44:53.255	10690	221	-24.3	7022.	RRCSM	UMTS FDD	Downlink	10:44:53.480	BCCH	MASTER_INFORMATION_BLOCK
					934.	10:44:53.652	10690	220	-97.5	7023.	RRCSM	UMTS FDD	Downlink	10:44:53.480	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					935.	10:44:53.652	10690	220	-24	7024.	RRCSM	UMTS FDD	Downlink	10:44:53.481	BCCH_BCH	MASTER_INFORMATION_BLOCK
					936.	10:44:55.063	10690	233	-83.6	7025.	RRCSM	UMTS FDD	Downlink	10:44:53.481	BCCH_BCH	SCHEDULING_BLOCK_1
					937.	10:44:55.063	10690	233	-9.9	7026.	RRCSM	UMTS FDD	Downlink	10:44:53.481	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
					938.	10:44:56.299	10715	233	-82.8	7027.	RRCSM	UMTS FDD	Downlink	10:44:53.481	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					939.	10:44:56.299	10715	233	-3.5	7028.	RRCSM	UMTS FDD	Downlink	10:44:53.481	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
					940.	10:44:56.427	10715	233	-79.8	7029.	RRCSM	UMTS FDD	Downlink	10:44:53.481	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_11
					941.	10:44:56.427	10715	233	-2.2	7030.	RRCSM	UMTS FDD	Downlink	10:44:56.281	BCCH_BCH	SYSTEM_INFORMATION_BLOCK
					942.	10:44:57.347	10715	233	-73.9	7031.	RRCSM	UMTS FDD	Downlink	10:44:56.281	BCCH	MASTER_INFORMATION_BLOCK

Analysis:

- This call drop event occurred on long call at 10:44:53:949 time when UE was latched with 3G network.
- After getting Alerting message at 10:44:35:163 time than Call drop happened.
- During the session UE was latched with PSC 220 and RF condition - RSCP -93.7 dBm is ok and Ec/No - 24.5 dB which is poor.
- As per the analysis call drop happened due to poor quality of the network.

THANKS