

Test Introduction

Test Cases for Drive

No.	Test cases
1	5G FTP and Speedtest DL/UL, Ping, Attach and Deattach, Web Browwing, Voice Call, Idle Mode

Test UE

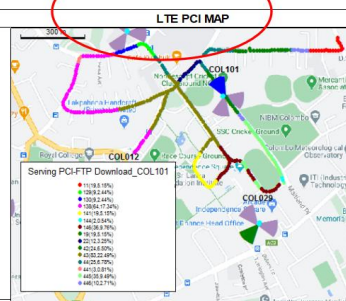
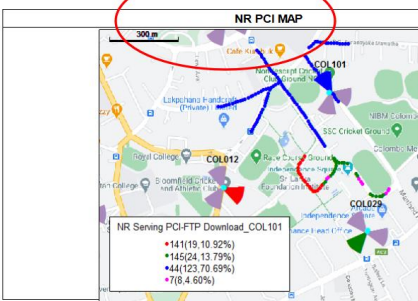
Test Software	Huawei PHU, Assistant
Test Device	Huawei Mate30 Pro

Test Case Introduction

No.	Type	Content
1	DT FTP/ST Speedtest Download Test	File size is at lease 10GB
2	DT FTP/ST Speedtest Download Test	File size is at lease 10GB
3	ST Ping Test	Confirm Ping test to the local sever succeed in 5 times
4	ST Attach and Deattach Test	Confirm attach and deattach succeed in 5 times
5	ST Web Browwing Test	Confirm web browsing succeed in 5 times
6	ST VoLTE Short Call	Succeed in 5 time
7	Idle Mode Test	Auto mode

Customer Feedback_V1

Sheet	Section	Parameter	Remark	Feedback
SSV Checklist Report	Site Information	All		Okay
	Site Location on Map	Location		Okay
	Parameter Verification	All		Okay
	Throughput Verification (Static Test)	Sector 3 Parameters		Okay
SSV Test Result	PCI Distribution	NR PCI MAP	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		LTE PCI MAP	Not enough DT routes in serving sector 3 direction.	Re-DT Required
	Static Speed Test Result Distribution	Sector 3 Test Location		Okay
		Sector 3 Throughput		Okay
	DT SSB Result Distribution	SSB Average RSRP	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		SSB Average RSRP Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		SSB Average SINR	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		SSB Average SINR Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
	DT MCS Distribution	DL Average MCS	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		DL Average MCS Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		UL Average MCS	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		UL Average MCS Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
	DT BLER Distribution	DL Initial BLER	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		DL Initial BLER Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		UL Initial BLER	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		UL Initial BLER Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
	DT Rank Distribution	DL Average RANK	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		DL Average RANK Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		UL Average RANK	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		UL Average RANK Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
	DT MAC Throughput Distribution	NR DL MAC Throughput	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		NR DL MAC Throughput Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		NR UL MAC Throughput	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		NR UL MAC Throughput Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
	Idle Plot	SSB Average RSRP	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		SSB Average RSRP Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		SSB Average SINR	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		SSB Average SINR Chart	Not enough DT routes in serving sector 3 direction.	Re-DT Required
	Event on Map	NRScellAdd Event	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		NRScellAbnormalRelease	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		NRScellChange Event	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		Normal Release	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		4G Handover Event	Not enough DT routes in serving sector 3 direction.	Re-DT Required
		SSB Distribution	Not enough DT routes in serving sector 3 direction to identify SSB distribution.	Re-DT Required
Speed test Result and Ping	Sector 2	Speedtest Result		Okay
ST Attach and Deattach Test	Sector 2	Attach & Detach Results	Check Attach Detach Average Delay and improve	Optimization Required
Voice Call_VoLTE	Sector 2	Voice Call Parameters	Check Call setup Average Delay. Check for both MOC and MTC scenarios.	Optimization Required
Http Browwing	Sector 2	Browing Parameters		Okay

Test Result
PCI Distribution


NR Single-Site Verification Report

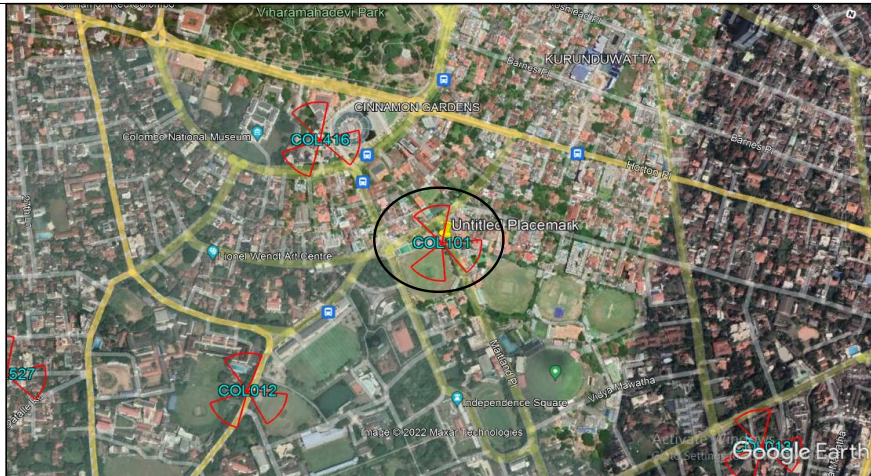
Site Information:

Site Name:	Colombo Cricket Club COL101	Operator:	Mobitel	Date:	2022.06.20
gNodeB ID:	101	Antenna Type:	AAU5639	UE type:	Huawei Mate 30 Pro
eNodeB ID:	101	Antenna height:	30m		
		Antenna Tilt:	M Tilt: 2/2/2 E Tilt: 8/8/8		

SSV Result Summary

Verification Conclusion	
SSV Result	Pass
Detail Item	Pass or not
DT FTP/ST Speedtest Download Test	Pass
DT FTP/ST Speedtest Download Test	Pass
ST Ping Test Function Test	Pass
ST Attach and Detach Test	Pass
ST Web Browsing Function Test	Pass
ST VoLTE	Pass
Idle Mode Test	Pass
4G to 5G NR Scell ADD	Pass
5G to 4G SCG Normal Release	Pass
NR Intra-RAT Handover Function Test(NR Scell Change event)	Pass

Site Location on Map



Parameter Verification

Item	Planning Data	Actual Configured	Pass or Not
Longitude	79.866002	79.866002	Pass
Latitude	6.908507	6.908507	Pass
PCI	42/43/44	44	Pass (only 1 Sector commission)

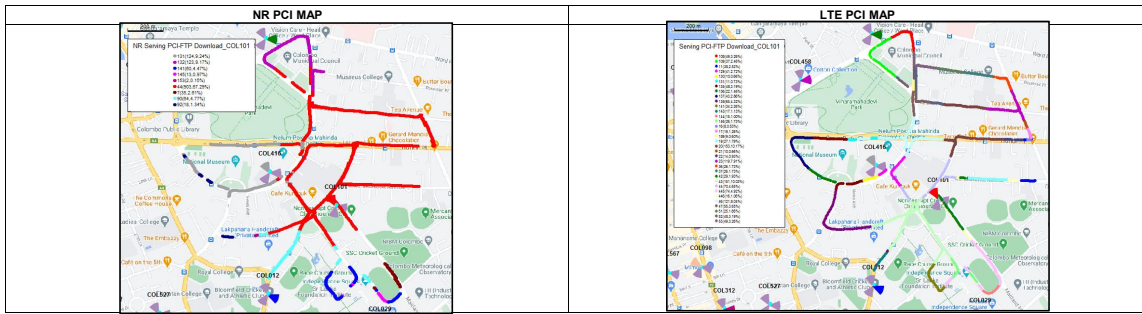
Throughput Verification (Static Test)

Sector	FTP DL Throughput (Gbps)	FTP UL Throughput (Mbps)	Pass or Not	Speed Test Result DL/UL
Target	800	60		
Sector1				
Sector2				
Sector3	1.4516	80.76	Pass	1.3Gbps/83.4Mbps
Sector4				


Test Engineer Name	Contact Phone	Test Date
Yashan Kalhara	768211714	6/16/2022

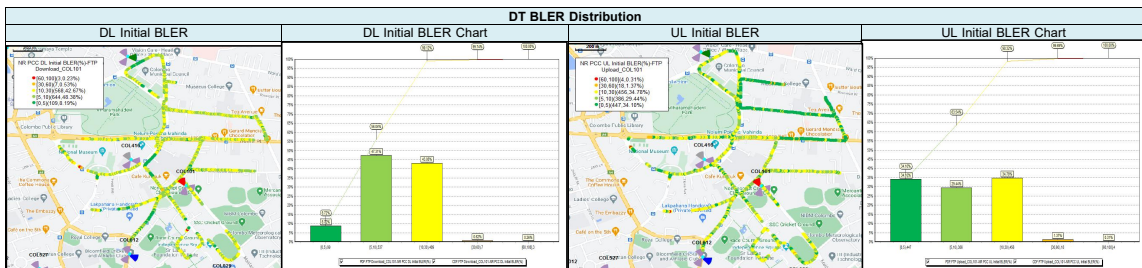
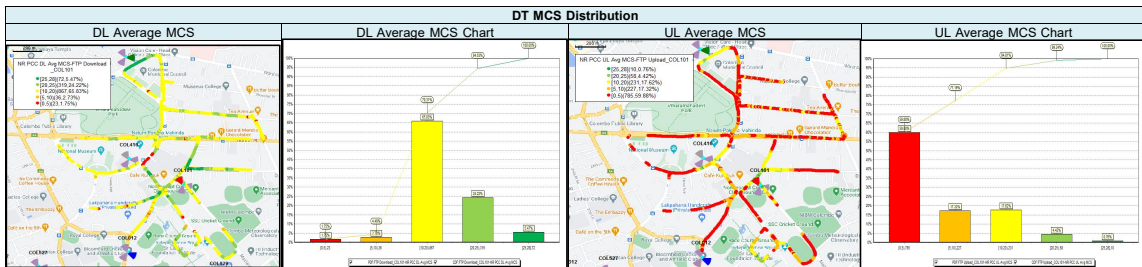
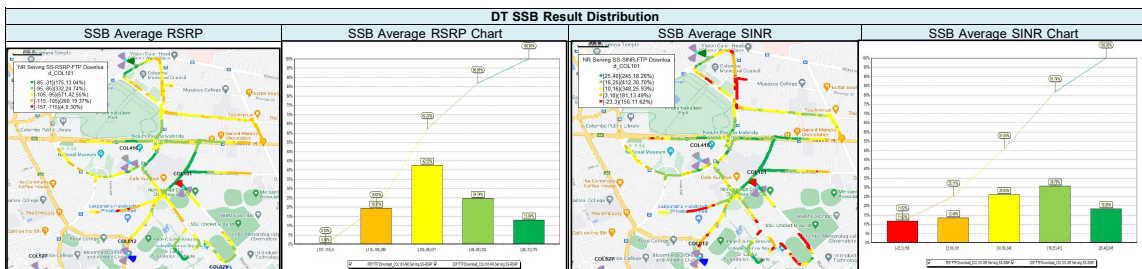
Test Result

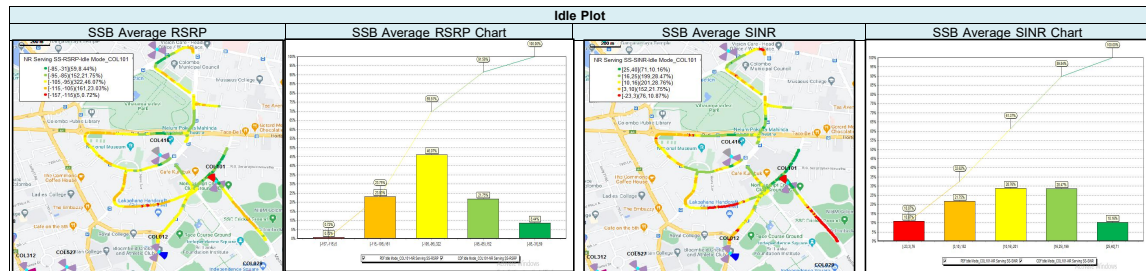
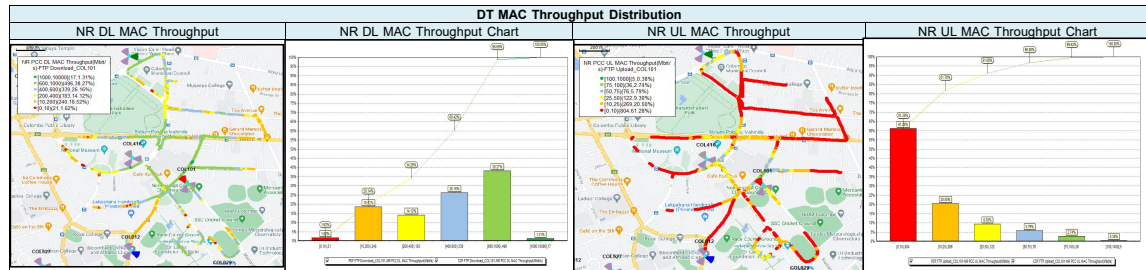
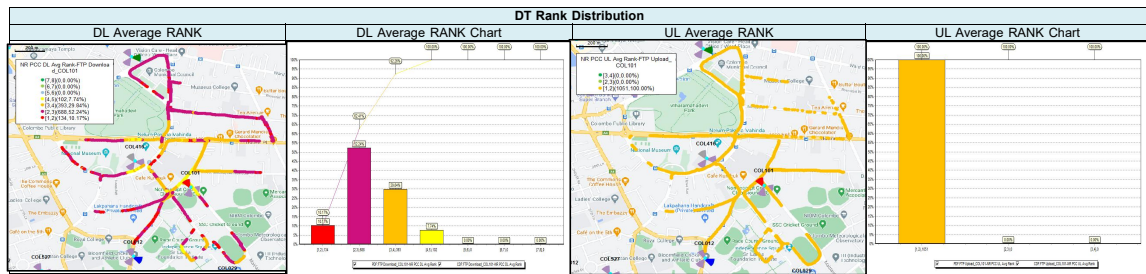
PCI Distribution



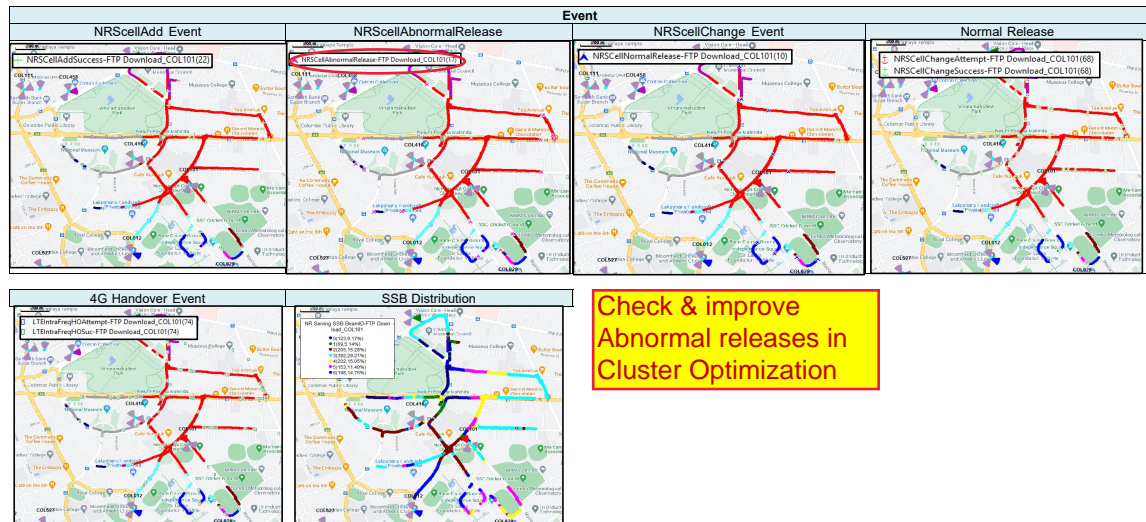
Main KPI on Map

Static Speed Test Result Distribution							
Sector 1 Test Location		Sector 1 Throughput		Sector 2 Test Location		Sector 2 Throughput	
	Sample	DL (Mbps)	UL (Mbps)		Sample	DL (Mbps)	UL (Mbps)
	1				1		
	2				2		
	3				3		
	4				4		
	5				5		
	Average	#DIV/0!	#DIV/0!		Average		
Sector 3 Test Location		Sector 3 Throughput		Sector 4 Test Location		Sector 4 Throughput	
	Sample	DL (Mbps)	UL (Mbps)		Sample	DL (Mbps)	UL (Mbps)
	1	1204	63.3		1		
	2	1364	83.4		2		
	3	1430	73.2		3		
	4	1438	70.6		4		
	5	1113	77.6		5		
	Average	1309.8	73.62		Average		



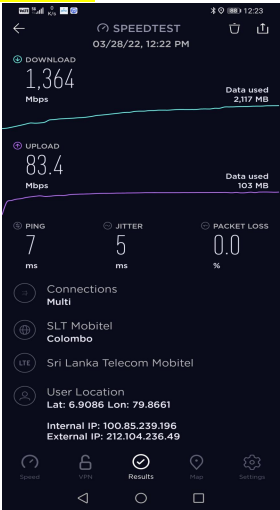


Event on Map



Speed test Result and Ping

Sector1:



Sector2:

Sector3:

Voice Call_VoLTE

Sector1:



Sector2:

Sector3:

Http Browsing

Sector1:

Sector2:

Sector3:

Sector 3 (Out Site)				
N	NARFCN 640704	PCI 44	SS-RSRP -81.13	SS-SINR 36.13
L	EARFCN 1275	PCI 44	RSRP -78.88	SINR 2
CellID N/A				
HTTP Browsing (HTTP)				
Count 5/5(Success:5)		Duration 00:01:25		
Page Display Success Rate 100.00% Standard 90%		Http Browsing AVG Throughput 16.49Kbps Standard 5Kbps		
KPI	Test Value		Standard Value	
AVG RSRP	-78.85 dBm		-100 dBm	
AVG SINR	-0.23 dB		0 dB	
LTE Setup Success Rate	--		90 %	
LTE Drop Rate	--		5 %	
LTE HO Success Rate	--		90 %	
Page Response Success Rate	100.00 %		90 %	
Page Response AVG Delay	149.60 ms		50 ms	
IP-Service Access Time	81.20 ms		50 ms	
Session Time	1727.00 ms		50 ms	
IP-Service Access Failure Rate	0.00 %		10 %	
Page Display Success Rate	100.00 %		90 %	
HTTP Browsing AVG Throughput	16.49 Kbps		5 Kbps	
NO.	Time	Page Display Status	Access Time(ms)	RTT(ms)
5	12:31:44.776	Success	78	167
4	12:31:27.856	Success	70	129
3	12:31:10.963	Success	83	141
2	12:30:54.241	Success	108	182
1	12:30:37.385	Success	67	129