Karachi West	**478**	**650**	**448**	70	**No**	**No**	**No**	Yes
Karachi South	**494**	**648**	**414**	137	**No**	**No**	**No**	Yes
Shujabad	**227**	**841**	**452**	95	**No**	**No**	**No**	Yes
Kabirwala	**289**	**874**	**484**	96	**No**	**No**	**No**	Yes
Chichawatni	**566**	**616**	**503**	100	**No**	**No**	**No**	Yes

Table 4.13: Latency in 3G Technology Locked Mode < 150 milliseconds

4.6.   During the survey, the deployed technologies by Cellular Mobile Operators (CMOs), Success Rate of http Transfer Download Tests and Resource Block Utilization have been recorded. The details can be seen in attached graphs.

TECHNOLOGY AUTO DETECT MODE TESTING

CAPACITY TEST DOWNLOAD SPEED (Mbps) — **CAPACITY TEST UPLOAD SPEED (Mbps)**

DATA TRANSFER DOWNLOAD SPEED (Mbps) — **DATA TRANSFER UPLOAD SPEED (Mbps)**

LATENCY (milliseconds) — **WEBPAGE LOADING TIME (Seconds)**
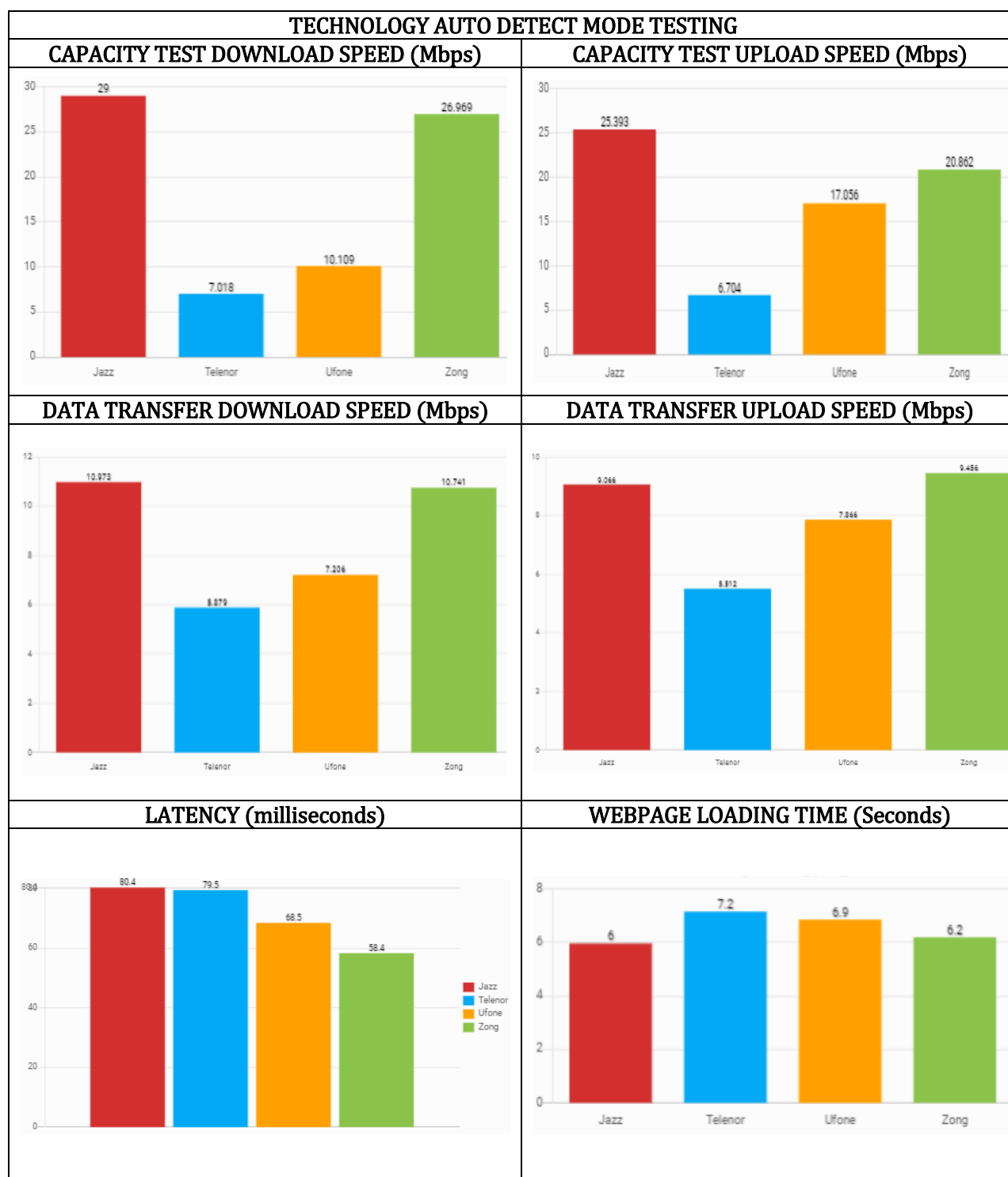
CMO	KPIs	Threshold	KARACHI CENTRAL	KARACHI KEMARI	KARACHI MALIR	NANKANA SAHIB	NOWSHERA	MURIDKE	SWABI
Jazz	NA	≥ 99%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CSSR	≥ 98%	Yes	Yes	Yes	Yes	**No**	Yes	Yes
	CCT	≤ 7.5 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MOS	≥ 3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ISHO	≥ 98%	N/A	Yes	Yes	N/A	Yes	Yes	Yes
	RSSR	> 98%	Yes	**No**	Yes	Yes	Yes	Yes	Yes
Telenor	NA	≥ 99%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CSSR	≥ 98%	Yes	Yes	Yes	Yes	**No**	**No**	**No**
	CCT	≤ 7.5 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCR	> 98%	Yes	Yes	Yes	Yes	Yes	**No**	**No**
	MOS	≥ 3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ISHO	≥ 98%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	RSSR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ufone	NA	≥ 99%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CSSR	≥ 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCT	≤ 7.5 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MOS	≥ 3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ISHO	≥ 98%	N/A	N/A	N/A	N/A	**No**	N/A	N/A
	RSSR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ZonG	NA	≥ 99%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CSSR	≥ 98%	Yes	Yes	Yes	Yes	Yes	Yes	**No**
	CCT	≤ 7.5 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MOS	≥ 3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ISHO	≥ 98%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	RSSR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes

* Note Voice QoS KPIs: Network Accessibility (NA) > 99%, Service Accessibility (SA)> 98%, Call Connection Time (CCT) ≤ 7.5 Seconds, Call Completion Ratio (CCR) ≥ 98%, Mean Opinion Score (MOS) > 3, Inter System Hand Over (ISHO) > 98% & RAB Setup Success Rate (RSSR) > 98%

Table 5.1: Voice QoS KPIs Compliance Level