

TR-398v2

WiFi Performance Test Plan



Fri May 14 21:25:19 PDT 2021

Test Setup Information		
Device Under Test	Name	TR398-DUT
	SSIDs	tr398-5g tr398-2g
	Passwords	hello123 hello123
	BSSIDs	4c:b1:cd:18:e8:ec 4c:b1:cd:18:e8:e8
	Notes	[BLANK]
Estimated Run Time	6.583 h	
Actual Run Time	5.885 h	

Objective

The TR-398v2 WiFi Performance test plan by the Broadband forum provides a comprehensive set of tests to qualify the performance of WiFi access points (APs) designed for residential and small office environments. Radio performance, Throughput, Connection Stability, Airtime Fairness, AP Co-existence, Mu_MIMO Performance, Spatial Consistency and Long-term Stability are some of the test areas covered in this test plan. The test plan is designed for service providers deploying in home WiFi APs to qualify the APs in the lab before deployment and for equipment makers to test during the development of the APs. Candela Technologies offers a fully automated TR-398v2 test system. The user can select from the list of 11 tests available in the GUI and all selected tests are run fully automated at one click of a button. Measurements are made and compared to the specified PASS/FAIL criteria in the TR-398v2 test plan and this report will show the summary PASS/FAIL results followed more detailed results for each test.

Summary Results

Test	Result	Candela Score	Elapsed	Info
Calibrate 802.11AX Zero Attenuation RSSI	2.4Ghz PASS 5Ghz PASS	100	5.201 m	Attenuator Calibration Step 2.4Ghz Passed 12 / 12 5Ghz Passed 12 / 12
Calibrate 802.11AC Zero Attenuation RSSI	2.4Ghz PASS 5Ghz PASS	100	5.599 m	Attenuator Calibration Step 2.4Ghz Passed 12 / 12 5Ghz Passed 12 / 12
6.1.1 Receiver Sensitivity Test	Skipped	0	0	
6.2.1 Maximum Connection Test (32-STA)	2.4Ghz FAIL 5Ghz FAIL	95	15.029 m	Throughput: 2.4Ghz AC UL 103.58% DL 104.46% Throughput: 2.4Ghz AX UL 94.22% DL 104.34% Throughput: 5Ghz AC UL 102.24% DL 104.37% Throughput: 5Ghz AX UL 6.29% DL 104.37% Passed PER: 256 / 256
6.2.2 Maximum TCP Throughput Test	2.4Ghz FAIL 5Ghz PASS	140	9.62 m	Throughput N 2.4Ghz UL 99.57% DL 116.95% Throughput AX 2.4Ghz UL 165.31% DL 220.20% Throughput AC 5Ghz UL 120.12% DL 130.76% Throughput AX 5Ghz UL 136.37% DL 133.35%
6.2.3 Airtime Fairness Test	2.4Ghz FAIL 5Ghz PASS	85	16.701 m	AC 5Ghz passed 7 / 7 AX 5Ghz passed 7 / 7 N 2.4Ghz passed 6 / 7 AX 2.4Ghz passed 4 / 7
6.2.4 Dual-Band Throughput Test	2.4Ghz PASS 5Ghz FAIL	87	15.032 m	N 6 / 12 AC 12 / 12 2.4 AX 12 / 12

				5Ghz AX 12 / 12
6.2.5 Bidirectional UDP Throughput Test	2.4Ghz FAIL 5Ghz FAIL	0	40.256 m	AC 5Ghz passed 0 / 3 AX 5Ghz passed 0 / 3 N 2.4Ghz passed 0 / 3 AX 2.4Ghz passed 0 / 3
6.3.1 Range Versus Rate Test	2.4Ghz FAIL 5Ghz PASS	71	1.176 h	AC 5Ghz UL 14 / 14 DL 14 / 14 AX 5Ghz UL 14 / 14 DL 14 / 14 N 2.4Ghz UL 3 / 17 DL 5 / 17 AX 2.4Ghz UL 14 / 17 DL 7 / 17
6.3.2 Spatial Consistency Test	2.4Ghz FAIL 5Ghz PASS	87	2.112 h	AC 5Ghz passed 12 / 12 AX 5Ghz passed 12 / 12 N 2.4Ghz passed 7 / 12 N 2.4Ghz passed 11 / 12
6.3.3 AX Peak Performance TCP Throughput Test	2.4Ghz PASS 5Ghz FAIL	108	5.167 m	Throughput AX 2.4Ghz UL 109.95% DL 146.06% Throughput AX 5Ghz UL 89.66% DL 87.33%
6.4.1 Multiple STAs Performance Test	2.4Ghz PASS 5Ghz PASS	100	32.816 m	N 2.4Ghz Passed 6 / 6 AX 2.4Ghz Passed 6 / 6 AC 5Ghz Passed 6 / 6 AX 5Ghz Passed 6 / 6
6.4.2 Multiple Association / Disassociation Stability Test	2.4Ghz PASS 5Ghz PASS	99	9.662 m	N 2.4Ghz Passed 728 / 728 AX 2.4Ghz Passed 728 / 728 AC 5Ghz Passed 727 / 728 AX 5Ghz Passed 726 / 728
6.4.3 Downlink MU-MIMO Performance Test	Skipped	0	0	
6.5.2 AP Coexistence Test	Skipped	0	0	
6.5.1 Long Term Stability Test	Skipped	0	0	

Calibrate 802.11AX Zero Attenuation RSSI

Summary

Calibrate the Zero attenuation settings for 2.4 and 5Ghz

Test Procedure

These steps are done for 2.4Ghz and 5Ghz. Attenuators are tested concurrently at each attenuation value.

1. Create an /a/b/g (legacy) station on each radio (or optionally some other mode and NSS). Legacy mode is used because it is normally sent at full tx-power by the AP. Higher MCS frames are often transmitted below maximum power, especially when using multiple spatial streams.
2. Set all attenuators to 0 for AX, 10 for AC 5Ghz, or 25 for N/AC 2.4Ghz.
3. Create download connections for each station and run them for 30 seconds.
4. Record Received Signal Strength (RSSI) for each station. This records a decaying average over the last few data frames received, not beacon RSSI.
5. For N/AC 2.4Ghz band: Change attenuation to 30, 35, and 40 and re-run download test and record new RSSI.
6. or For AC 5Ghz band: Change attenuation to 15, 20, and 25 and re-run download test and record new RSSI.
7. or For either AX: Change attenuation to 5, 10, and 15 and re-run download test and record new RSSI.
8. Record the zero-attenuation RSSI, based on the average over all tested attenuations, in the TR-398v2 Automation setup window.

Pass/Fail Criteria

1. Ensure that relative RSSI is within 3 for each of the different attenuation values.

Candela Score

The Candela Score for Calibration Test is calculated as the percentage of passing sub-tests. As long as the score is 80 or higher and there are no bad outliers in the reported signal calculations the setup is probably working OK. Failures normally indicate a cabling problem or mis-configuration, or in rare cases, a hardware failure in the attenuator or LANforge radios. RF leakage inside of LANforge from adjacent radios and SMA pigtailed can cause RSSI variation as well.

Calibrate 802.11AX Zero Attenuation RSSI Results

Type	Result	Notes
2.4Ghz Atten: 0 Group: 0	INFO	1.2.16 wlan0 Avg RSSI + Attenuation: -26 STA-RSSI: -25 Rx-Rate: 54M Tx-Rate: 48M
2.4Ghz Atten: 0 Group: 1	INFO	1.2.17 wlan4 Avg RSSI + Attenuation: -38 STA-RSSI: -39 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 0 Group: 2	INFO	1.2.18 wlan8 Avg RSSI + Attenuation: -35 STA-RSSI: -35 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 5 Group: 0	INFO	1.2.16 wlan0 Avg RSSI + Attenuation: -25 STA-RSSI: -30 Rx-Rate: 54M Tx-Rate: 48M
2.4Ghz Atten: 5 Group: 1	INFO	1.2.17 wlan4 Avg RSSI + Attenuation: -37 STA-RSSI: -43 Rx-Rate: 54M Tx-Rate: 48M
2.4Ghz Atten: 5 Group: 2	INFO	1.2.18 wlan8 Avg RSSI + Attenuation: -34 STA-RSSI: -41 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 10 Group: 0	INFO	1.2.16 wlan0 Avg RSSI + Attenuation: -26 STA-RSSI: -37 Rx-Rate: 54M Tx-Rate: 48M
2.4Ghz Atten: 10 Group: 1	INFO	1.2.17 wlan4 Avg RSSI + Attenuation: -38 STA-RSSI: -49 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 10 Group: 2	INFO	1.2.18 wlan8 Avg RSSI + Attenuation: -34 STA-RSSI: -44 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 15 Group: 0	INFO	1.2.16 wlan0 Avg RSSI + Attenuation: -25 STA-RSSI: -40 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 15 Group: 1	INFO	1.2.17 wlan4 Avg RSSI + Attenuation: -37 STA-RSSI: -52 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 15 Group: 2	INFO	1.2.18 wlan8 Avg RSSI + Attenuation: -35 STA-RSSI: -49 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 0 Group: 0	INFO	1.2.16 wlan0 Avg RSSI + Attenuation: -39 STA-RSSI: -40 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 0 Group: 1	INFO	1.2.17 wlan4 Avg RSSI + Attenuation: -41 STA-RSSI: -42 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 0 Group: 2	INFO	1.2.18 wlan8 Avg RSSI + Attenuation: -44 STA-RSSI: -44 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 5 Group: 0	INFO	1.2.16 wlan0 Avg RSSI + Attenuation: -38 STA-RSSI: -45 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 5 Group: 1	INFO	1.2.17 wlan4 Avg RSSI + Attenuation: -40 STA-RSSI: -46 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 5 Group: 2	INFO	1.2.18 wlan8 Avg RSSI + Attenuation: -44 STA-RSSI: -49 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 10 Group: 0	INFO	1.2.16 wlan0 Avg RSSI + Attenuation: -38 STA-RSSI: -49 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 10 Group: 1	INFO	1.2.17 wlan4 Avg RSSI + Attenuation: -41 STA-RSSI: -53 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 10 Group: 2	INFO	1.2.18 wlan8 Avg RSSI + Attenuation: -45 STA-RSSI: -54 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 15 Group: 0	INFO	1.2.16 wlan0 Avg RSSI + Attenuation: -38 STA-RSSI: -53 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 15 Group: 1	INFO	1.2.17 wlan4 Avg RSSI + Attenuation: -40 STA-RSSI: -55 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 15 Group: 2	INFO	1.2.18 wlan8 Avg RSSI + Attenuation: -45 STA-RSSI: -61 Rx-Rate: 54M Tx-Rate: 54M
Group: 0 2.4Ghz Attenuation 0	PASS	Reported RSSI: -26 Avg: -25.50 Calculated RSSI-0: -26 Diff: 0.50
Group: 0 2.4Ghz Attenuation 5	PASS	Reported RSSI: -30 Avg: -25.50 Calculated RSSI-0: -25 Diff: -0.50
Group: 0 2.4Ghz Attenuation 10	PASS	Reported RSSI: -36 Avg: -25.50 Calculated RSSI-0: -26 Diff: 0.50
Group: 0 2.4Ghz Attenuation 15	PASS	Reported RSSI: -40 Avg: -25.50 Calculated RSSI-0: -25 Diff: -0.50
Group: 0 5Ghz Attenuation 0	PASS	Reported RSSI: -39 Avg: -38.25 Calculated RSSI-0: -39 Diff: 0.75
Group: 0 5Ghz Attenuation 5	PASS	Reported RSSI: -43 Avg: -38.25 Calculated RSSI-0: -38 Diff: -0.25
		Reported RSSI: -48

Group: 0 5Ghz Attenuation 10	PASS	Avg: -38.25 Calculated RSSI-0: -38 Diff: -0.25
Group: 0 5Ghz Attenuation 15	PASS	Reported RSSI: -53 Avg: -38.25 Calculated RSSI-0: -38 Diff: -0.25
Group: 1 2.4Ghz Attenuation 0	PASS	Reported RSSI: -38 Avg: -37.50 Calculated RSSI-0: -38 Diff: 0.50
Group: 1 2.4Ghz Attenuation 5	PASS	Reported RSSI: -42 Avg: -37.50 Calculated RSSI-0: -37 Diff: -0.50
Group: 1 2.4Ghz Attenuation 10	PASS	Reported RSSI: -48 Avg: -37.50 Calculated RSSI-0: -38 Diff: 0.50
Group: 1 2.4Ghz Attenuation 15	PASS	Reported RSSI: -52 Avg: -37.50 Calculated RSSI-0: -37 Diff: -0.50
Group: 1 5Ghz Attenuation 0	PASS	Reported RSSI: -41 Avg: -40.50 Calculated RSSI-0: -41 Diff: 0.50
Group: 1 5Ghz Attenuation 5	PASS	Reported RSSI: -45 Avg: -40.50 Calculated RSSI-0: -40 Diff: -0.50
Group: 1 5Ghz Attenuation 10	PASS	Reported RSSI: -51 Avg: -40.50 Calculated RSSI-0: -41 Diff: 0.50
Group: 1 5Ghz Attenuation 15	PASS	Reported RSSI: -55 Avg: -40.50 Calculated RSSI-0: -40 Diff: -0.50
Group: 2 2.4Ghz Attenuation 0	PASS	Reported RSSI: -35 Avg: -34.50 Calculated RSSI-0: -35 Diff: 0.50
Group: 2 2.4Ghz Attenuation 5	PASS	Reported RSSI: -39 Avg: -34.50 Calculated RSSI-0: -34 Diff: -0.50
Group: 2 2.4Ghz Attenuation 10	PASS	Reported RSSI: -44 Avg: -34.50 Calculated RSSI-0: -34 Diff: -0.50
Group: 2 2.4Ghz Attenuation 15	PASS	Reported RSSI: -50 Avg: -34.50 Calculated RSSI-0: -35 Diff: 0.50
Group: 2 5Ghz Attenuation 0	PASS	Reported RSSI: -44 Avg: -44.50 Calculated RSSI-0: -44 Diff: -0.50
Group: 2 5Ghz Attenuation 5	PASS	Reported RSSI: -49 Avg: -44.50 Calculated RSSI-0: -44 Diff: -0.50
Group: 2 5Ghz Attenuation 10	PASS	Reported RSSI: -55 Avg: -44.50 Calculated RSSI-0: -45 Diff: 0.50
Group: 2 5Ghz Attenuation 15	PASS	Reported RSSI: -60 Avg: -44.50 Calculated RSSI-0: -45 Diff: 0.50

Attenuator Calibration Snapshot for band: 2.4Ghz: Attenuation Set to: 0

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	90.923 Kbps	3.262 Mbps	16.52	48 Mbps	54 Mbps	802.11bg	6	273	-25	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	91.807 Kbps	3.36 Mbps	20.616	54 Mbps	54 Mbps	802.11bg	6	274	-39	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.18 wlan8	98.324 Kbps	3.375 Mbps	5.471	54 Mbps	54 Mbps	802.11bg	6	238	-35	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	4.297 Mbps	98.313 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	4.968 Mbps	120	120	6	0
cv_tcp-2.2-2.wlan0--1.0.0-B	4.946 Mbps	0 bps	0	120	0	0
cv_tcp-2.2-2.wlan4--1.0.1-A	0 bps	5.002 Mbps	85	85	37	0
cv_tcp-2.2-2.wlan4--1.0.1-B	4.952 Mbps	0 bps	0	85	0	0
cv_tcp-2.2-2.wlan8--1.0.2-A	0 bps	4.937 Mbps	87	87	3	0
cv_tcp-2.2-2.wlan8--1.0.2-B	5 Mbps	0 bps	0	87	0	0

Attenuator Calibration Snapshot for band: 2.4Ghz: Attenuation Set to: 5

Port	Tx-Bps	RxBps	Tx-Fail	Tx-Link-	Rx-Link-	Mode	Channel	Last CX-	RSSI	AP	IP	MAC
------	--------	-------	---------	----------	----------	------	---------	----------	------	----	----	-----

	1m	1m	%	Rate	Rate			Time(ms)	(dBm)			
1.2.16 wlan0	111.089 Kbps	3.974 Mbps	16.558	48 Mbps	54 Mbps	802.11bg	6	273	-30	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	103.947 Kbps	3.844 Mbps	21.037	48 Mbps	54 Mbps	802.11bg	6	274	-43	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.18 wlan8	109.339 Kbps	3.851 Mbps	5.159	54 Mbps	54 Mbps	802.11bg	6	238	-41	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	11.247 Mbps	252.858 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	4.973 Mbps	131	131	6	0
cv_tcp-2.2-2.wlan0--1.0.0-B	4.921 Mbps	0 bps	0	131	0	0
cv_tcp-2.2-2.wlan4--1.0.1-A	0 bps	5 Mbps	67	67	39	0
cv_tcp-2.2-2.wlan4--1.0.1-B	4.899 Mbps	0 bps	0	67	0	0
cv_tcp-2.2-2.wlan8--1.0.2-A	0 bps	4.979 Mbps	88	88	4	0
cv_tcp-2.2-2.wlan8--1.0.2-B	4.911 Mbps	0 bps	0	88	0	0

Attenuator Calibration Snapshot for band: 2.4Ghz: Attenuation Set to: 10

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	117.775 Kbps	4.152 Mbps	13.464	48 Mbps	54 Mbps	802.11bg	6	273	-37	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	112.026 Kbps	4.152 Mbps	16.558	54 Mbps	54 Mbps	802.11bg	6	274	-49	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.18 wlan8	116.77 Kbps	4.116 Mbps	4.92	54 Mbps	54 Mbps	802.11bg	6	238	-44	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.768 Mbps	333.18 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	4.94 Mbps	88	88	3	0
cv_tcp-2.2-2.wlan0--1.0.0-B	4.996 Mbps	0 bps	0	88	0	0
cv_tcp-2.2-2.wlan4--1.0.1-A	0 bps	4.927 Mbps	80	80	8	0
cv_tcp-2.2-2.wlan4--1.0.1-B	4.852 Mbps	0 bps	0	80	0	0
cv_tcp-2.2-2.wlan8--1.0.2-A	0 bps	4.932 Mbps	82	82	5	0
cv_tcp-2.2-2.wlan8--1.0.2-B	5.007 Mbps	0 bps	0	82	0	0

Attenuator Calibration Snapshot for band: 2.4Ghz: Attenuation Set to: 15

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	138.168 Kbps	4.858 Mbps	12.395	54 Mbps	54 Mbps	802.11bg	6	273	-40	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	128.814 Kbps	4.858 Mbps	17.364	54 Mbps	54 Mbps	802.11bg	6	274	-52	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.18 wlan8	133.768 Kbps	4.836 Mbps	4.742	54 Mbps	54 Mbps	802.11bg	6	238	-49	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.601 Mbps	326.59 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	4.98 Mbps	112	112	4	0
cv_tcp-2.2-2.wlan0--1.0.0-B	4.996 Mbps	0 bps	0	112	0	0
cv_tcp-2.2-2.wlan4--1.0.1-A	0 bps	4.957 Mbps	68	68	30	0
cv_tcp-2.2-2.wlan4--1.0.1-B	4.953 Mbps	0 bps	0	68	0	0
cv_tcp-2.2-2.wlan8--1.0.2-A	0 bps	4.989 Mbps	84	84	3	0

cv_tcp-2.2-2.wlan8--1.0.2-B	4.942 Mbps	0 bps	0	84	0	0
-----------------------------	------------	-------	---	----	---	---

Attenuator Calibration Snapshot for band: 5Ghz: Attenuation Set to: 0

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	88.597 Kbps	3.108 Mbps	3.841	54 Mbps	54 Mbps	802.11a	36	215	-40	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	85.817 Kbps	3.116 Mbps	4.453	54 Mbps	54 Mbps	802.11a	36	279	-42	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.18 wlan8	86.282 Kbps	3.103 Mbps	4.43	54 Mbps	54 Mbps	802.11a	36	201	-44	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	11.338 Mbps	253.413 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	4.91 Mbps	79	79	3	0
cv_tcp-2.2-2.wlan0--1.0.0-B	4.874 Mbps	0 bps	0	79	0	0
cv_tcp-2.2-2.wlan4--1.0.1-A	0 bps	4.965 Mbps	81	81	3	0
cv_tcp-2.2-2.wlan4--1.0.1-B	4.941 Mbps	0 bps	0	81	0	0
cv_tcp-2.2-2.wlan8--1.0.2-A	0 bps	4.99 Mbps	80	80	4	0
cv_tcp-2.2-2.wlan8--1.0.2-B	5.006 Mbps	0 bps	0	80	0	0

Attenuator Calibration Snapshot for band: 5Ghz: Attenuation Set to: 5

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	109.183 Kbps	3.931 Mbps	4.156	54 Mbps	54 Mbps	802.11a	36	215	-45	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	107.912 Kbps	3.91 Mbps	4.179	54 Mbps	54 Mbps	802.11a	36	279	-46	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.18 wlan8	108.107 Kbps	3.904 Mbps	4.135	54 Mbps	54 Mbps	802.11a	36	201	-49	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.899 Mbps	332.582 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	4.938 Mbps	80	80	4	0
cv_tcp-2.2-2.wlan0--1.0.0-B	4.959 Mbps	0 bps	0	80	0	0
cv_tcp-2.2-2.wlan4--1.0.1-A	0 bps	4.948 Mbps	83	83	4	0
cv_tcp-2.2-2.wlan4--1.0.1-B	4.92 Mbps	0 bps	0	83	0	0
cv_tcp-2.2-2.wlan8--1.0.2-A	0 bps	5.008 Mbps	77	77	7	0
cv_tcp-2.2-2.wlan8--1.0.2-B	5.004 Mbps	0 bps	0	77	0	0

Attenuator Calibration Snapshot for band: 5Ghz: Attenuation Set to: 10

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	116.318 Kbps	4.201 Mbps	4.186	54 Mbps	54 Mbps	802.11a	36	215	-49	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	116.289 Kbps	4.187 Mbps	4.197	54 Mbps	54 Mbps	802.11a	36	279	-53	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.18 wlan8	117.255 Kbps	4.187 Mbps	4.659	54 Mbps	54 Mbps	802.11a	36	201	-54	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.635 Mbps	329.609 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

--	--	--	--	--	--	--

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	4.964 Mbps	84	84	4	0
cv_tcp-2.2-2.wlan0--1.0.0-B	4.966 Mbps	0 bps	0	84	0	0
cv_tcp-2.2-2.wlan4--1.0.1-A	0 bps	4.957 Mbps	81	81	3	0
cv_tcp-2.2-2.wlan4--1.0.1-B	4.975 Mbps	0 bps	0	81	0	0
cv_tcp-2.2-2.wlan8--1.0.2-A	0 bps	4.957 Mbps	86	86	3	0
cv_tcp-2.2-2.wlan8--1.0.2-B	4.989 Mbps	0 bps	0	86	0	0

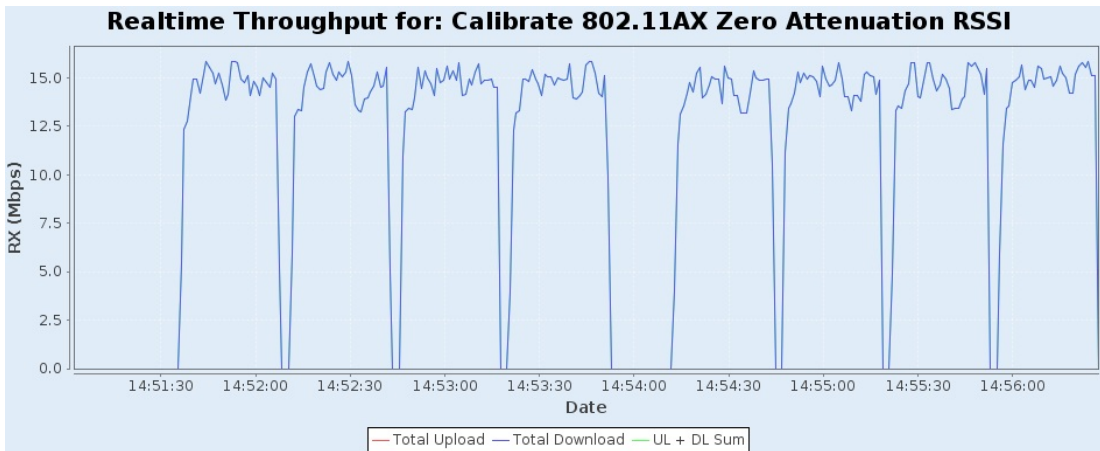
Attenuator Calibration Snapshot for band: 5Ghz: Attenuation Set to: 15

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	134.994 Kbps	4.843 Mbps	4.212	54 Mbps	54 Mbps	802.11a	36	215	-53	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	135.546 Kbps	4.832 Mbps	4.547	54 Mbps	54 Mbps	802.11a	36	279	-55	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.18 wlan8	134.773 Kbps	4.811 Mbps	5.584	54 Mbps	54 Mbps	802.11a	36	201	-61	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.28 Mbps	326.776 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	4.965 Mbps	78	78	9	0
cv_tcp-2.2-2.wlan0--1.0.0-B	4.917 Mbps	0 bps	0	78	0	0
cv_tcp-2.2-2.wlan4--1.0.1-A	0 bps	4.928 Mbps	82	82	3	0
cv_tcp-2.2-2.wlan4--1.0.1-B	4.931 Mbps	0 bps	0	82	0	0
cv_tcp-2.2-2.wlan8--1.0.2-A	0 bps	4.974 Mbps	85	85	3	0
cv_tcp-2.2-2.wlan8--1.0.2-B	4.944 Mbps	0 bps	0	85	0	0

Realtime Throughput for: Calibrate 802.11AX Zero Attenuation RSSI



Calibrate 802.11AC Zero Attenuation RSSI

Summary

Calibrate the Zero attenuation settings for 2.4 and 5Ghz

Test Procedure

These steps are done for 2.4Ghz and 5Ghz. Attenuators are tested concurrently at each attenuation value.

1. Create an /a/b/g (legacy) station on each radio (or optionally some other mode and NSS). Legacy mode is used because it is normally sent at full tx-power by the AP. Higher MCS frames are often transmitted below maximum power, especially when using multiple spatial streams.
2. Set all attenuators to 0 for AX, 10 for AC 5Ghz, or 25 for N/AC 2.4Ghz.
3. Create download connections for each station and run them for 30 seconds.
4. Record Received Signal Strength (RSSI) for each station. This records a decaying average over the last few data frames received, not beacon RSSI.
5. For N/AC 2.4Ghz band: Change attenuation to 30, 35, and 40 and re-run download test and record new RSSI.
6. or For AC 5Ghz band: Change attenuation to 15, 20, and 25 and re-run download test and record new RSSI.
7. or For either AX: Change attenuation to 5, 10, and 15 and re-run download test and record new RSSI.
8. Record the zero-attenuation RSSI, based on the average over all tested attenuations, in the TR-398v2 Automation setup window.

Pass/Fail Criteria

1. Ensure that relative RSSI is within 3 for each of the different attenuation values.

Candela Score

The Candela Score for Calibration Test is calculated as the percentage of passing sub-tests. As long as the score is 80 or higher and there are no bad outliers in the reported signal calculations the setup is probably working OK. Failures normally indicate a cabling problem or mis-configuration, or in rare cases, a hardware failure in the attenuator or LANforge radios. RF leakage inside of LANforge from adjacent radios and SMA pigtailed can cause RSSI variation as well.

Calibrate 802.11AC Zero Attenuation RSSI Results

Type	Result	Notes
2.4Ghz Atten: 25 Group: 0	INFO	1.1.10 sta01500 Avg RSSI + Attenuation: -19 STA-RSSI: -45 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 25 Group: 1	INFO	1.1.11 sta02000 Avg RSSI + Attenuation: -27 STA-RSSI: -54 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 25 Group: 2	INFO	1.1.12 sta02500 Avg RSSI + Attenuation: -22 STA-RSSI: -50 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 30 Group: 0	INFO	1.1.10 sta01500 Avg RSSI + Attenuation: -18 STA-RSSI: -49 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 30 Group: 1	INFO	1.1.11 sta02000 Avg RSSI + Attenuation: -28 STA-RSSI: -59 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 30 Group: 2	INFO	1.1.12 sta02500 Avg RSSI + Attenuation: -24 STA-RSSI: -56 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 35 Group: 0	INFO	1.1.10 sta01500 Avg RSSI + Attenuation: -18 STA-RSSI: -55 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 35 Group: 1	INFO	1.1.11 sta02000 Avg RSSI + Attenuation: -28 STA-RSSI: -63 Rx-Rate: 48M Tx-Rate: 54M
2.4Ghz Atten: 35 Group: 2	INFO	1.1.12 sta02500 Avg RSSI + Attenuation: -25 STA-RSSI: -60 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 40 Group: 0	INFO	1.1.10 sta01500 Avg RSSI + Attenuation: -18 STA-RSSI: -60 Rx-Rate: 54M Tx-Rate: 54M
2.4Ghz Atten: 40 Group: 1	INFO	1.1.11 sta02000 Avg RSSI + Attenuation: -27 STA-RSSI: -68 Rx-Rate: 36M Tx-Rate: 54M
2.4Ghz Atten: 40 Group: 2	INFO	1.1.12 sta02500 Avg RSSI + Attenuation: -24 STA-RSSI: -65 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 10 Group: 0	INFO	1.1.10 sta01000 Avg RSSI + Attenuation: -39 STA-RSSI: -49 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 10 Group: 1	INFO	1.1.11 sta01500 Avg RSSI + Attenuation: -45 STA-RSSI: -56 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 10 Group: 2	INFO	1.1.12 sta02000 Avg RSSI + Attenuation: -52 STA-RSSI: -62 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 15 Group: 0	INFO	1.1.10 sta01000 Avg RSSI + Attenuation: -40 STA-RSSI: -56 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 15 Group: 1	INFO	1.1.11 sta01500 Avg RSSI + Attenuation: -46 STA-RSSI: -62 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 15 Group: 2	INFO	1.1.12 sta02000 Avg RSSI + Attenuation: -51 STA-RSSI: -68 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 20 Group: 0	INFO	1.1.10 sta01000 Avg RSSI + Attenuation: -39 STA-RSSI: -60 Rx-Rate: 54M Tx-Rate: 54M

5Ghz Atten: 20 Group: 1	INFO	1.1.11 sta01500 Avg RSSI + Attenuation: -47 STA-RSSI: -68 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 20 Group: 2	INFO	1.1.12 sta02000 Avg RSSI + Attenuation: -53 STA-RSSI: -73 Rx-Rate: 48M Tx-Rate: 54M
5Ghz Atten: 25 Group: 0	INFO	1.1.10 sta01000 Avg RSSI + Attenuation: -41 STA-RSSI: -66 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 25 Group: 1	INFO	1.1.11 sta01500 Avg RSSI + Attenuation: -47 STA-RSSI: -72 Rx-Rate: 54M Tx-Rate: 54M
5Ghz Atten: 25 Group: 2	INFO	1.1.12 sta02000 Avg RSSI + Attenuation: -52 STA-RSSI: -78 Rx-Rate: 54M Tx-Rate: 54M
Group: 0 2.4Ghz Attenuation 25	PASS	Reported RSSI: -44 Avg: -18.25 Calculated RSSI-0: -19 Diff: 0.75
Group: 0 2.4Ghz Attenuation 30	PASS	Reported RSSI: -48 Avg: -18.25 Calculated RSSI-0: -18 Diff: -0.25
Group: 0 2.4Ghz Attenuation 35	PASS	Reported RSSI: -53 Avg: -18.25 Calculated RSSI-0: -18 Diff: -0.25
Group: 0 2.4Ghz Attenuation 40	PASS	Reported RSSI: -58 Avg: -18.25 Calculated RSSI-0: -18 Diff: -0.25
Group: 0 5Ghz Attenuation 10	PASS	Reported RSSI: -49 Avg: -39.75 Calculated RSSI-0: -39 Diff: -0.75
Group: 0 5Ghz Attenuation 15	PASS	Reported RSSI: -55 Avg: -39.75 Calculated RSSI-0: -40 Diff: 0.25
Group: 0 5Ghz Attenuation 20	PASS	Reported RSSI: -59 Avg: -39.75 Calculated RSSI-0: -39 Diff: -0.75
Group: 0 5Ghz Attenuation 25	PASS	Reported RSSI: -66 Avg: -39.75 Calculated RSSI-0: -41 Diff: 1.25
Group: 1 2.4Ghz Attenuation 25	PASS	Reported RSSI: -52 Avg: -27.50 Calculated RSSI-0: -27 Diff: -0.50
Group: 1 2.4Ghz Attenuation 30	PASS	Reported RSSI: -58 Avg: -27.50 Calculated RSSI-0: -28 Diff: 0.50
Group: 1 2.4Ghz Attenuation 35	PASS	Reported RSSI: -63 Avg: -27.50 Calculated RSSI-0: -28 Diff: 0.50
Group: 1 2.4Ghz Attenuation 40	PASS	Reported RSSI: -67 Avg: -27.50 Calculated RSSI-0: -27 Diff: -0.50
Group: 1 5Ghz Attenuation 10	PASS	Reported RSSI: -55 Avg: -46.25 Calculated RSSI-0: -45 Diff: -1.25
Group: 1 5Ghz Attenuation 15	PASS	Reported RSSI: -61 Avg: -46.25 Calculated RSSI-0: -46 Diff: -0.25
Group: 1 5Ghz Attenuation 20	PASS	Reported RSSI: -67 Avg: -46.25 Calculated RSSI-0: -47 Diff: 0.75
Group: 1 5Ghz Attenuation 25	PASS	Reported RSSI: -72 Avg: -46.25 Calculated RSSI-0: -47 Diff: 0.75
Group: 2 2.4Ghz Attenuation 25	PASS	Reported RSSI: -47 Avg: -23.75 Calculated RSSI-0: -22 Diff: -1.75
Group: 2 2.4Ghz Attenuation 30	PASS	Reported RSSI: -54 Avg: -23.75 Calculated RSSI-0: -24 Diff: 0.25
Group: 2 2.4Ghz Attenuation 35	PASS	Reported RSSI: -60 Avg: -23.75 Calculated RSSI-0: -25 Diff: 1.25
Group: 2 2.4Ghz Attenuation 40	PASS	Reported RSSI: -64 Avg: -23.75 Calculated RSSI-0: -24 Diff: 0.25
Group: 2 5Ghz Attenuation 10	PASS	Reported RSSI: -62 Avg: -52.00 Calculated RSSI-0: -52 Diff: 0
Group: 2 5Ghz Attenuation 15	PASS	Reported RSSI: -66 Avg: -52.00 Calculated RSSI-0: -51 Diff: -1.00
Group: 2 5Ghz Attenuation 20	PASS	Reported RSSI: -73 Avg: -52.00 Calculated RSSI-0: -53 Diff: 1.00
Group: 2 5Ghz Attenuation 25	PASS	Reported RSSI: -77 Avg: -52.00 Calculated RSSI-0: -52 Diff: 0

Attenuator Calibration Snapshot for band: 2.4Ghz: Attenuation Set to: 25

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link- Rate	Rx-Link- Rate	Mode	Channel	Last CX- Time(ms)	RSSI (dBm)	AP	IP	MAC
------	--------------	-------------	--------------	------------------	------------------	------	---------	----------------------	---------------	----	----	-----

1.1.10 sta01500	119.146 Kbps	2.909 Mbps	0	54 Mbps	54 Mbps	802.11bg 6	517	-45	4C:B1:CD:18:E8:E8	172.18.101.22	04:f0:21:4b:b8:00
1.1.11 sta02000	111.031 Kbps	2.689 Mbps	0	54 Mbps	54 Mbps	802.11bg 6	360	-54	4C:B1:CD:18:E8:E8	172.18.101.178	04:f0:21:36:fc:74
1.1.12 sta02500	114.124 Kbps	2.761 Mbps	0	54 Mbps	54 Mbps	802.11bg 6	206	-50	4C:B1:CD:18:E8:E8	172.18.101.179	04:f0:21:4b:b0:f9

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	9.235 Mbps	281.21 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	4.947 Mbps	80	80	25	0
cv_tcp-2.2-1.sta01500--1.0.0-B	4.957 Mbps	0 bps	0	80	0	0
cv_tcp-2.2-1.sta02000--1.0.1-A	0 bps	4.933 Mbps	87	87	10	0
cv_tcp-2.2-1.sta02000--1.0.1-B	4.873 Mbps	0 bps	0	87	0	0
cv_tcp-2.2-1.sta02500--1.0.2-A	0 bps	5.001 Mbps	81	81	20	0
cv_tcp-2.2-1.sta02500--1.0.2-B	4.924 Mbps	0 bps	0	81	0	0

Attenuator Calibration Snapshot for band: 2.4Ghz: Attenuation Set to: 30

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	150.968 Kbps	3.693 Mbps	0	54 Mbps	54 Mbps	802.11bg 6	6	517	-49	4C:B1:CD:18:E8:E8	172.18.101.22	04:f0:21:4b:b8:00
1.1.11 sta02000	148.295 Kbps	3.611 Mbps	0	54 Mbps	54 Mbps	802.11bg 6	6	360	-59	4C:B1:CD:18:E8:E8	172.18.101.178	04:f0:21:36:fc:74
1.1.12 sta02500	149.415 Kbps	3.631 Mbps	0	54 Mbps	54 Mbps	802.11bg 6	6	206	-56	4C:B1:CD:18:E8:E8	172.18.101.179	04:f0:21:4b:b0:f9

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	10.965 Mbps	348.108 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	4.926 Mbps	84	84	11	0
cv_tcp-2.2-1.sta01500--1.0.0-B	4.925 Mbps	0 bps	0	84	0	0
cv_tcp-2.2-1.sta02000--1.0.1-A	0 bps	4.967 Mbps	90	90	8	0
cv_tcp-2.2-1.sta02000--1.0.1-B	4.954 Mbps	0 bps	0	90	0	0
cv_tcp-2.2-1.sta02500--1.0.2-A	0 bps	5.002 Mbps	81	81	20	0
cv_tcp-2.2-1.sta02500--1.0.2-B	4.943 Mbps	0 bps	0	81	0	0

Attenuator Calibration Snapshot for band: 2.4Ghz: Attenuation Set to: 35

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	161.876 Kbps	3.953 Mbps	0	54 Mbps	54 Mbps	802.11bg 6	6	517	-55	4C:B1:CD:18:E8:E8	172.18.101.22	04:f0:21:4b:b8:00
1.1.11 sta02000	162.446 Kbps	3.977 Mbps	0	54 Mbps	48 Mbps	802.11bg 6	6	360	-63	4C:B1:CD:18:E8:E8	172.18.101.178	04:f0:21:36:fc:74
1.1.12 sta02500	161.452 Kbps	3.916 Mbps	0	54 Mbps	54 Mbps	802.11bg 6	6	206	-60	4C:B1:CD:18:E8:E8	172.18.101.179	04:f0:21:4b:b0:f9

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.386 Mbps	478.385 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	4.921 Mbps	83	83	13	0
cv_tcp-2.2-1.sta01500--1.0.0-B	4.881 Mbps	0 bps	0	83	0	0
cv_tcp-2.2-1.sta02000--1.0.1-A	0 bps	4.947 Mbps	112	112	10	0
cv_tcp-2.2-1.sta02000--1.0.1-B	4.887 Mbps	0 bps	0	112	0	0

cv_tcp-2.2-1.sta02500--1.0.2-A	0 bps	4.981 Mbps	89	89	12	0
cv_tcp-2.2-1.sta02500--1.0.2-B	4.921 Mbps	0 bps	0	89	0	0

Attenuator Calibration Snapshot for band: 2.4Ghz: Attenuation Set to: 40

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	198.521 Kbps	4.907 Mbps	0	54 Mbps	54 Mbps	802.11bg	6	517	-60	4C:B1:CD:18:E8:E8	172.18.101.22	04:f0:21:4b:b8:00
1.1.11 sta02000	195.058 Kbps	4.838 Mbps	0.003	54 Mbps	36 Mbps	802.11bg	6	360	-68	4C:B1:CD:18:E8:E8	172.18.101.178	04:f0:21:36:fc:74
1.1.12 sta02500	196.944 Kbps	4.856 Mbps	0	54 Mbps	54 Mbps	802.11bg	6	206	-65	4C:B1:CD:18:E8:E8	172.18.101.179	04:f0:21:4b:b0:f9

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.326 Mbps	476 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	4.929 Mbps	86	86	10	0
cv_tcp-2.2-1.sta01500--1.0.0-B	4.982 Mbps	0 bps	0	86	0	0
cv_tcp-2.2-1.sta02000--1.0.1-A	0 bps	4.954 Mbps	122	122	14	0
cv_tcp-2.2-1.sta02000--1.0.1-B	4.945 Mbps	0 bps	0	122	0	0
cv_tcp-2.2-1.sta02500--1.0.2-A	0 bps	4.997 Mbps	94	94	13	0
cv_tcp-2.2-1.sta02500--1.0.2-B	4.88 Mbps	0 bps	0	94	0	0

Attenuator Calibration Snapshot for band: 5Ghz: Attenuation Set to: 10

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	105.971 Kbps	2.577 Mbps	0	54 Mbps	54 Mbps	802.11a	36	508	-49	4C:B1:CD:18:E8:EC	172.18.101.7	04:f0:21:38:be:f0
1.1.11 sta01500	96.106 Kbps	2.335 Mbps	0	54 Mbps	54 Mbps	802.11a	36	492	-56	4C:B1:CD:18:E8:EC	172.18.101.180	04:f0:21:3a:43:c0
1.1.12 sta02000	96.779 Kbps	2.346 Mbps	0	54 Mbps	54 Mbps	802.11a	36	184	-62	4C:B1:CD:18:E8:EC	172.18.101.181	04:f0:21:3a:76:c1

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	9.979 Mbps	329.642 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01000--1.0.0-A	0 bps	4.957 Mbps	84	84	6	0
cv_tcp-2.2-1.sta01000--1.0.0-B	4.942 Mbps	0 bps	0	84	0	0
cv_tcp-2.2-1.sta01500--1.0.1-A	0 bps	4.965 Mbps	65	65	22	0
cv_tcp-2.2-1.sta01500--1.0.1-B	4.914 Mbps	0 bps	0	65	0	0
cv_tcp-2.2-1.sta02000--1.0.2-A	0 bps	4.959 Mbps	71	71	17	0
cv_tcp-2.2-1.sta02000--1.0.2-B	4.905 Mbps	0 bps	0	71	0	0

Attenuator Calibration Snapshot for band: 5Ghz: Attenuation Set to: 15

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	142.02 Kbps	3.47 Mbps	0	54 Mbps	54 Mbps	802.11a	36	508	-56	4C:B1:CD:18:E8:EC	172.18.101.7	04:f0:21:38:be:f0
1.1.11 sta01500	137.72 Kbps	3.366 Mbps	0	54 Mbps	54 Mbps	802.11a	36	492	-62	4C:B1:CD:18:E8:EC	172.18.101.180	04:f0:21:3a:43:c0
1.1.12 sta02000	135.433 Kbps	3.319 Mbps	0	54 Mbps	54 Mbps	802.11a	36	184	-68	4C:B1:CD:18:E8:EC	172.18.101.181	04:f0:21:3a:76:c1

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	10.593 Mbps	350.749 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01000--1.0.0-A	0 bps	4.93 Mbps	86	86	9	0
cv_tcp-2.2-1.sta01000--1.0.0-B	4.965 Mbps	0 bps	0	86	0	0
cv_tcp-2.2-1.sta01500--1.0.1-A	0 bps	4.933 Mbps	92	92	14	0
cv_tcp-2.2-1.sta01500--1.0.1-B	4.894 Mbps	0 bps	0	92	0	0
cv_tcp-2.2-1.sta02000--1.0.2-A	0 bps	4.986 Mbps	67	67	26	0
cv_tcp-2.2-1.sta02000--1.0.2-B	4.936 Mbps	0 bps	0	67	0	0

Attenuator Calibration Snapshot for band: 5Ghz: Attenuation Set to: 20

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	154.634 Kbps	3.775 Mbps	0	54 Mbps	54 Mbps	802.11a	36	508	-60	4C:B1:CD:18:E8:EC	172.18.101.7	04:f0:21:38:be:f0
1.1.11 sta01500	154.54 Kbps	3.777 Mbps	0	54 Mbps	54 Mbps	802.11a	36	492	-68	4C:B1:CD:18:E8:EC	172.18.101.180	04:f0:21:3a:43:c0
1.1.12 sta02000	200.312 Kbps	4.977 Mbps	0	54 Mbps	48 Mbps	802.11a	36	184	-73	4C:B1:CD:18:E8:EC	172.18.101.181	04:f0:21:3a:76:c1

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.94 Mbps	490.735 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01000--1.0.0-A	0 bps	4.933 Mbps	76	76	24	0
cv_tcp-2.2-1.sta01000--1.0.0-B	4.933 Mbps	0 bps	0	76	0	0
cv_tcp-2.2-1.sta01500--1.0.1-A	0 bps	4.959 Mbps	81	81	18	0
cv_tcp-2.2-1.sta01500--1.0.1-B	4.928 Mbps	0 bps	0	81	0	0
cv_tcp-2.2-1.sta02000--1.0.2-A	0 bps	4.97 Mbps	88	88	10	0
cv_tcp-2.2-1.sta02000--1.0.2-B	4.956 Mbps	0 bps	0	88	0	0

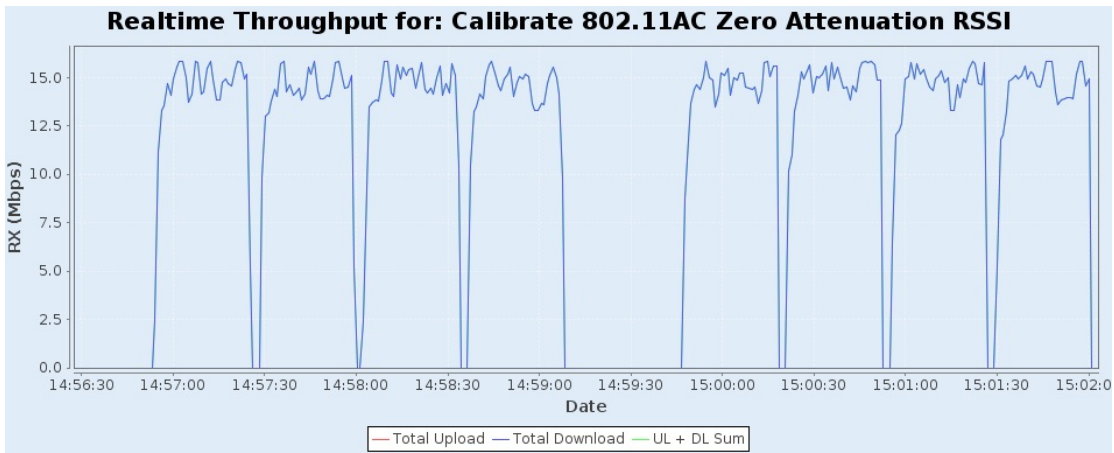
Attenuator Calibration Snapshot for band: 5Ghz: Attenuation Set to: 25

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	199.926 Kbps	4.932 Mbps	0	54 Mbps	54 Mbps	802.11a	36	508	-66	4C:B1:CD:18:E8:EC	172.18.101.7	04:f0:21:38:be:f0
1.1.11 sta01500	196.184 Kbps	4.839 Mbps	0	54 Mbps	54 Mbps	802.11a	36	492	-72	4C:B1:CD:18:E8:EC	172.18.101.180	04:f0:21:3a:43:c0
1.1.12 sta02000	197.828 Kbps	4.876 Mbps	0	54 Mbps	54 Mbps	802.11a	36	184	-78	4C:B1:CD:18:E8:EC	172.18.101.181	04:f0:21:3a:76:c1

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	14.709 Mbps	484.866 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01000--1.0.0-A	0 bps	4.995 Mbps	79	79	14	0
cv_tcp-2.2-1.sta01000--1.0.0-B	4.954 Mbps	0 bps	0	79	0	0
cv_tcp-2.2-1.sta01500--1.0.1-A	0 bps	4.911 Mbps	84	84	11	0
cv_tcp-2.2-1.sta01500--1.0.1-B	4.954 Mbps	0 bps	0	84	0	0
cv_tcp-2.2-1.sta02000--1.0.2-A	0 bps	4.986 Mbps	71	71	28	0
cv_tcp-2.2-1.sta02000--1.0.2-B	4.883 Mbps	0 bps	0	71	0	0

Realtime Throughput for: Calibrate 802.11AC Zero Attenuation RSSI



6.2.1 Maximum Connection Test (32-STA)

Summary

The Maximum Connection test intends to verify that the Wi-Fi AP can support 32 STAs simultaneously connected with minimal packet loss and no disassociations taking place.

Test Procedure

These steps are done for 2.4Ghz and then for 5Ghz bands.

1. Establish the LAN connection, create 32 stations and allow the 32 stations to associate with the DUT.
2. Measure the downlink UDP packet loss, using a test time of 120 seconds and a traffic rate of 2 Mbps for 802.11n or 8 Mbps for 802.11ac, 3Mbps for 802.11ax on 2.4Ghz, and 10Mbps for 802.11ax on 4Ghz through each STA concurrently. Record the number of packets transmitted and received to calculate the packet error rate.
3. Do same test in the upload direction.

Pass/Fail Criteria

1. For each of the test configuration, Packet Error Rate (PER) for each STA SHALL achieve less than 1%.
2. For 2.4Ghz, summed upload throughput shall be at least (64Mbps * 0.99)
3. For 2.4Ghz, summed download throughput shall be at least (64Mbps * 0.99)
4. For 5Ghz, summed upload throughput shall be at least (256Mbps * 0.99)
5. For 5Ghz, summed download throughput shall be at least (256Mbps * 0.99)
6. For 2.4Ghz AX, summed upload throughput shall be at least (96Mbps * 0.99)
7. For 5Ghz AX, summed download throughput shall be at least (320Mbps * 0.99)

Candela Score

The Candela Score for Max CX Test is calculated with 1/2 of the score coming from the percentage of stations meeting the pass criteria, and 1/2 of the score coming from total throughput. The total throughput component will be calculated as a percentage of the actual throughput vs the required throughput.

6.2.1 Maximum Connection Test (32-STA) Results

Type	Result	Notes
Configuration NOTE	INFO	In UL direction, 5Ghz attenuation will be decreased by: 3 because configured txpower: 20 is different from the TR398 spec's default of 23.
6.2.1 Assumptions	INFO	The spec is open to interpretation: Candela assumes stations can run at full available NSS and bandwidth.
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan0--1.0.0	PASS	Download-PER: 0 STA-RSSI: -32 Rx-Rate: 573.5M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan1--1.0.1	PASS	Download-PER: 0 STA-RSSI: -32 Rx-Rate: 573.5M Tx-Rate: 117M

6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan2--1.0.2	PASS	Download-PER: 0 STA-RSSI: -31 Rx-Rate: 573.5M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan3--1.0.3	PASS	Download-PER: 0 STA-RSSI: -32 Rx-Rate: 573.5M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan4--1.0.4	PASS	Download-PER: 0 STA-RSSI: -39 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan5--1.0.5	PASS	Download-PER: 0 STA-RSSI: -39 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan6--1.0.6	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan7--1.0.7	PASS	Download-PER: 0 STA-RSSI: -40 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan8--1.0.8	PASS	Download-PER: 0 STA-RSSI: -39 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan9--1.0.9	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan10--1.0.10	PASS	Download-PER: 0 STA-RSSI: -40 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan11--1.0.11	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan0--1.0.12	PASS	Download-PER: 0 STA-RSSI: -41 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan5--1.0.13	PASS	Download-PER: 0 STA-RSSI: -41 Rx-Rate: 573.5M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan10--1.0.14	PASS	Download-PER: 0 STA-RSSI: -40 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan15--1.0.15	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 413M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan1--1.0.16	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan6--1.0.17	PASS	Download-PER: 0 STA-RSSI: -41 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan11--1.0.18	PASS	Download-PER: 0 STA-RSSI: -41 Rx-Rate: 413M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan16--1.0.19	PASS	Download-PER: 0 STA-RSSI: -39 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan2--1.0.20	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan7--1.0.21	PASS	Download-PER: 0 STA-RSSI: -41 Rx-Rate: 413M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan12--1.0.22	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan17--1.0.23	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan3--1.0.24	PASS	Download-PER: 0 STA-RSSI: -40 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan8--1.0.25	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 413M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan13--1.0.26	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 413M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan18--1.0.27	PASS	Download-PER: 0 STA-RSSI: -37 Rx-Rate: 458.8M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan4--1.0.28	PASS	Download-PER: 0 STA-RSSI: -40 Rx-Rate: 516M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan9--1.0.29	PASS	Download-PER: 0 STA-RSSI: -39 Rx-Rate: 413M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan14--1.0.30	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 413M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan19--1.0.31	PASS	Download-PER: 0 STA-RSSI: -38 Rx-Rate: 458.8M Tx-Rate: 117M
AX 2.4Ghz Download Connections Passing Drop% Test	INFO	Passed 32 / 32 connections.
2.4Ghz AX Download Throughput	PASS	Sum-total AX Download reported rate: 99.16 Mbps must be at least 95.04 Mbps
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan0--1.0.0	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 573.5M Tx-Rate: 573.5M

6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan1--1.0.1	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 299.4M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan2--1.0.2	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 573.5M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan3--1.0.3	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 516M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan4--1.0.4	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 458.8M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan5--1.0.5	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 299.4M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan6--1.0.6	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 11M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan7--1.0.7	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 299.4M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan8--1.0.8	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 516M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan9--1.0.9	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 299.4M Tx-Rate: 117M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan10--1.0.10	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 458.8M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-2.wlan11--1.0.11	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 458.8M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan0--1.0.12	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 458.8M Tx-Rate: 516M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan5--1.0.13	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 573.5M Tx-Rate: 541.6M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan10--1.0.14	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 516M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan15--1.0.15	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 413M Tx-Rate: 516M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan1--1.0.16	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 516M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan6--1.0.17	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 458.8M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan11--1.0.18	PASS	Upload-PER: 0 STA-RSSI: 0 Rx-Rate: 0bps Tx-Rate: 0bps
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan16--1.0.19	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 413M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan2--1.0.20	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 458.8M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan7--1.0.21	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 413M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan12--1.0.22	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 413M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan17--1.0.23	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 413M Tx-Rate: 516M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan3--1.0.24	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 516M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan8--1.0.25	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 458.8M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan13--1.0.26	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 413M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan18--1.0.27	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 458.8M Tx-Rate: 516M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan4--1.0.28	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 11M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan9--1.0.29	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 413M Tx-Rate: 573.5M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan14--1.0.30	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 413M Tx-Rate: 516M
6.2.1.5.A AX 2.4Ghz cv_udp-2.2-3.wlan19--1.0.31	PASS	Upload-PER: 0 STA-RSSI: -36 Rx-Rate: 344.1M Tx-Rate: 458.8M
AX 2.4Ghz Upload Connections Passing Drop% Test	INFO	Passed 32 / 32 connections.

2.4Ghz AX Upload Throughput	FAIL	Sum-total AX Upload reported rate: 89.54 Mbps must be at least 95.04 Mbps
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan0-1.0.0	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan1-1.0.1	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 1.081G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan2-1.0.2	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan3-1.0.3	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 1.201G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan4-1.0.4	PASS	Download-PER: 0 STA-RSSI: -47 Rx-Rate: 1.081G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan5-1.0.5	PASS	Download-PER: 0 STA-RSSI: -45 Rx-Rate: 1.081G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan6-1.0.6	PASS	Download-PER: 0 STA-RSSI: -45 Rx-Rate: 1.081G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan7-1.0.7	PASS	Download-PER: 0 STA-RSSI: -46 Rx-Rate: 1.081G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan8-1.0.8	PASS	Download-PER: 0 STA-RSSI: -46 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan9-1.0.9	PASS	Download-PER: 0 STA-RSSI: -47 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan10-1.0.10	PASS	Download-PER: 0 STA-RSSI: -48 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan11-1.0.11	PASS	Download-PER: 0 STA-RSSI: -48 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan0-1.0.12	PASS	Download-PER: 0 STA-RSSI: -48 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan5-1.0.13	PASS	Download-PER: 0 STA-RSSI: -50 Rx-Rate: 1.081G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan10-1.0.14	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan15-1.0.15	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan1-1.0.16	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan6-1.0.17	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan11-1.0.18	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan16-1.0.19	PASS	Download-PER: 0 STA-RSSI: -48 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan2-1.0.20	PASS	Download-PER: 0 STA-RSSI: -50 Rx-Rate: 1.081G Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan7-1.0.21	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan12-1.0.22	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan17-1.0.23	PASS	Download-PER: 0 STA-RSSI: -47 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan3-1.0.24	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan8-1.0.25	PASS	Download-PER: 0 STA-RSSI: -51 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan13-1.0.26	PASS	Download-PER: 0.02 STA-RSSI: -48 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan18-1.0.27	PASS	Download-PER: 0 STA-RSSI: -48 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan4-1.0.28	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan9-1.0.29	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 960.7M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan14-1.0.30	PASS	Download-PER: 0 STA-RSSI: -47 Rx-Rate: 864.8M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-		

3.wlan19--1.0.31	PASS	Download-PER: 0 STA-RSSI: -49 Rx-Rate: 864.8M Tx-Rate: 245M
AX 5Ghz Download Connections Passing Drop% Test	INFO	Passed 32 / 32 connections.
5Ghz AX Download Throughput	PASS	Sum-total AX Download reported rate: 330.66 Mbps must be at least 316.80 Mbps
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan0-1.0.0	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 1.201G Tx-Rate: 48M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan1-1.0.1	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 149.7M Tx-Rate: 18M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan2-1.0.2	PASS	Upload-PER: 0 STA-RSSI: -32 Rx-Rate: 149.7M Tx-Rate: 51.6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan3-1.0.3	PASS	Upload-PER: 0 STA-RSSI: -35 Rx-Rate: 1.201G Tx-Rate: 24M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan4-1.0.4	PASS	Upload-PER: 0 STA-RSSI: -41 Rx-Rate: 626.9M Tx-Rate: 29.2M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan5-1.0.5	PASS	Upload-PER: 0 STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 51.6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan6-1.0.6	PASS	Upload-PER: 0 STA-RSSI: -40 Rx-Rate: 24M Tx-Rate: 18M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan7-1.0.7	PASS	Upload-PER: 0 STA-RSSI: -41 Rx-Rate: 1.081G Tx-Rate: 48.7M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan8-1.0.8	PASS	Upload-PER: 0 STA-RSSI: -45 Rx-Rate: 626.9M Tx-Rate: 1.134G
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan9-1.0.9	PASS	Upload-PER: 0 STA-RSSI: -45 Rx-Rate: 960.7M Tx-Rate: 1.201G
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan10--1.0.10	PASS	Upload-PER: 0 STA-RSSI: -45 Rx-Rate: 960.7M Tx-Rate: 816.7M
6.2.1.5.A AX 5Ghz cv_udp-2.2-2.wlan11--1.0.11	PASS	Upload-PER: 0 STA-RSSI: 0 Rx-Rate: 0bps Tx-Rate: 0bps
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan0-1.0.12	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 1.081G Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan5-1.0.13	PASS	Upload-PER: 0 STA-RSSI: -42 Rx-Rate: 1.081G Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan10--1.0.14	PASS	Upload-PER: 0 STA-RSSI: -44 Rx-Rate: 1.081G Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan15--1.0.15	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 864.8M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan1-1.0.16	PASS	Upload-PER: 0 STA-RSSI: -44 Rx-Rate: 960.7M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan6-1.0.17	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 1.081G Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan11--1.0.18	PASS	Upload-PER: 0 STA-RSSI: 0 Rx-Rate: 0bps Tx-Rate: 0bps
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan16--1.0.19	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 149.7M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan2-1.0.20	PASS	Upload-PER: 0 STA-RSSI: -44 Rx-Rate: 626.9M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan7-1.0.21	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 0bps Tx-Rate: 0bps
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan12--1.0.22	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 864.8M Tx-Rate: 14.6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan17--1.0.23	PASS	Upload-PER: 0 STA-RSSI: -47 Rx-Rate: 24M Tx-Rate: 245M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan3-1.0.24	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 960.7M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan8-1.0.25	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 960.7M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan13--1.0.26	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 864.8M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan18--1.0.27	PASS	Upload-PER: 0 STA-RSSI: -44 Rx-Rate: 864.8M Tx-Rate: 8.6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan4-1.0.28	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 24M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan9-	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 960.7M Tx-Rate: 14.6M

-1.0.29		
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan14--1.0.30	PASS	Upload-PER: 0 STA-RSSI: -43 Rx-Rate: 864.8M Tx-Rate: 6M
6.2.1.5.A AX 5Ghz cv_udp-2.2-3.wlan19--1.0.31	PASS	Upload-PER: 0 STA-RSSI: -44 Rx-Rate: 149.7M Tx-Rate: 6M
AX 5Ghz Upload Connections Passing Drop% Test	INFO	Passed 32 / 32 connections.
5Ghz AX Upload Throughput	FAIL	Sum-total AX Upload reported rate: 19.92 Mbps must be at least 316.80 Mbps
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01000--1.0.0	PASS	Download-PER: 0 STA-RSSI: -32 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01001--1.0.1	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01002--1.0.2	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01003--1.0.3	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01004--1.0.4	PASS	Download-PER: 0 STA-RSSI: -32 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01005--1.0.5	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01006--1.0.6	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01007--1.0.7	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01008--1.0.8	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01009--1.0.9	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01010--1.0.10	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01011--1.0.11	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01012--1.0.12	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01013--1.0.13	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01014--1.0.14	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01015--1.0.15	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01016--1.0.16	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01017--1.0.17	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01018--1.0.18	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01019--1.0.19	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 540M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01020--1.0.20	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01021--1.0.21	PASS	Download-PER: 0.04 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01022--1.0.22	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01023--1.0.23	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01024--1.0.24	PASS	Download-PER: 0 STA-RSSI: -35 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01025--1.0.25	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01026--1.0.26	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01027--1.0.27	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M

6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01028--1.0.28	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01029--1.0.29	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01030--1.0.30	PASS	Download-PER: 0 STA-RSSI: -34 Rx-Rate: 450M Tx-Rate: 180M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01031--1.0.31	PASS	Download-PER: 0 STA-RSSI: -33 Rx-Rate: 450M Tx-Rate: 180M
N 2.4Ghz Download Connections Passing Drop% Test	INFO	Passed 32 / 32 connections.
2.4Ghz N Download Throughput	PASS	Sum-total N Download reported rate: 66.18 Mbps must be at least 63.36 Mbps
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01000--1.0.0	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01001--1.0.1	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01002--1.0.2	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 364.5M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01003--1.0.3	PASS	Upload-PER: 0 STA-RSSI: -27 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01004--1.0.4	PASS	Upload-PER: 0 STA-RSSI: -27 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01005--1.0.5	PASS	Upload-PER: 0 STA-RSSI: -27 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01006--1.0.6	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01007--1.0.7	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01008--1.0.8	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01009--1.0.9	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01010--1.0.10	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01011--1.0.11	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 450M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01012--1.0.12	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01013--1.0.13	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 364.5M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01014--1.0.14	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01015--1.0.15	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01016--1.0.16	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01017--1.0.17	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01018--1.0.18	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01019--1.0.19	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01020--1.0.20	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01021--1.0.21	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01022--1.0.22	PASS	Upload-PER: 0 STA-RSSI: -25 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01023--1.0.23	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01024--1.0.24	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01025--1.0.25	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 450M Tx-Rate: 360M

1.sta01026--1.0.26		
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01027--1.0.27	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01028--1.0.28	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01029--1.0.29	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 450M Tx-Rate: 360M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01030--1.0.30	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 486M Tx-Rate: 405M
6.2.1.5.A N 2.4Ghz cv_udp-2.2-1.sta01031--1.0.31	PASS	Upload-PER: 0 STA-RSSI: -26 Rx-Rate: 11M Tx-Rate: 432M
N 2.4Ghz Upload Connections Passing Drop% Test	INFO	Passed 32 / 32 connections.
2.4Ghz N Upload Throughput	PASS	Sum-total N Upload reported rate: 65.63 Mbps must be at least 63.36 Mbps
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01000--1.0.0	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01001--1.0.1	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01002--1.0.2	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.17G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01003--1.0.3	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01004--1.0.4	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01005--1.0.5	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 520M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01006--1.0.6	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 520M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01007--1.0.7	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01008--1.0.8	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01009--1.0.9	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01010--1.0.10	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01011--1.0.11	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 1.17G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01012--1.0.12	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.17G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01013--1.0.13	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01014--1.0.14	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01015--1.0.15	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01016--1.0.16	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01017--1.0.17	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01018--1.0.18	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 24M Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01019--1.0.19	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 24M Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01020--1.0.20	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01021--1.0.21	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01022--1.0.22	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01023--1.0.23	PASS	Download-PER: 0 STA-RSSI: -44 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01024--1.0.24	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M

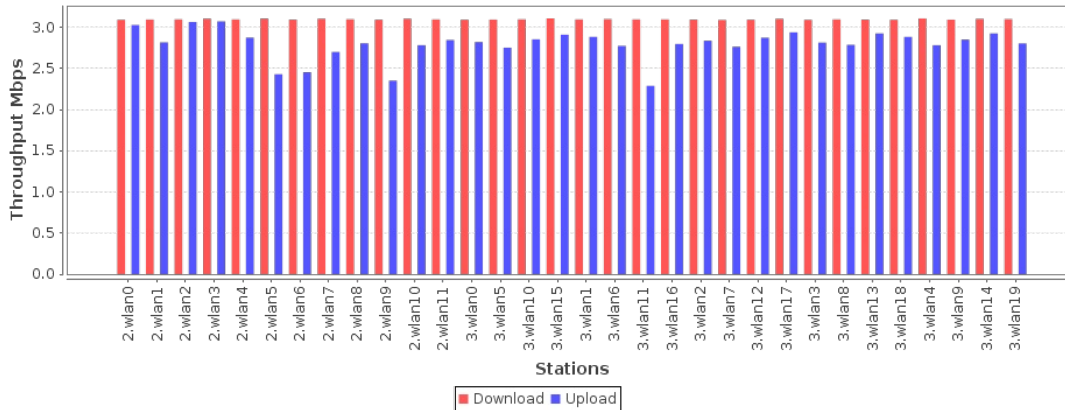
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01025--1.0.25	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 24M Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01026--1.0.26	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 1.17G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01027--1.0.27	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01028--1.0.28	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01029--1.0.29	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01030--1.0.30	PASS	Download-PER: 0 STA-RSSI: -42 Rx-Rate: 1.3G Tx-Rate: 390.2M
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01031--1.0.31	PASS	Download-PER: 0 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 390.2M
AC 5Ghz Download Connections Passing Drop% Test	INFO	Passed 32 / 32 connections.
5Ghz AC Download Throughput	PASS	Sum-total AC Download reported rate: 264.51 Mbps must be at least 253.44 Mbps
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01000--1.0.0	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01001--1.0.1	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.17G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01002--1.0.2	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01003--1.0.3	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01004--1.0.4	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.404G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01005--1.0.5	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.404G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01006--1.0.6	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01007--1.0.7	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01008--1.0.8	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.404G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01009--1.0.9	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01010--1.0.10	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01011--1.0.11	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01012--1.0.12	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01013--1.0.13	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01014--1.0.14	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01015--1.0.15	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01016--1.0.16	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01017--1.0.17	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01018--1.0.18	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01019--1.0.19	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.404G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01020--1.0.20	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01021--1.0.21	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01022--1.0.22	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.404G

1.sta01023--1.0.23		
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01024--1.0.24	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01025--1.0.25	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01026--1.0.26	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01027--1.0.27	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01028--1.0.28	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01029--1.0.29	PASS	Upload-PER: 0 STA-RSSI: -39 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01030--1.0.30	PASS	Upload-PER: 0 STA-RSSI: -39 Rx-Rate: 24M Tx-Rate: 1.3G
6.2.1.5.A AC 5Ghz cv_udp-2.2-1.sta01031--1.0.31	PASS	Upload-PER: 0 STA-RSSI: -38 Rx-Rate: 24M Tx-Rate: 1.3G
AC 5Ghz Upload Connections Passing Drop% Test	INFO	Passed 32 / 32 connections.
5Ghz AC Upload Throughput	PASS	Sum-total AC Upload reported rate: 259.10 Mbps must be at least 253.44 Mbps

AX 2.4Ghz Throughput (goodput) for each station.

[CSV Data for 2.4Ghz Throughput](#)

2.4Ghz Throughput



Max-Cx-Test: Snapshot AX 2.4Ghz Download

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	155 bps	2.247 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn-AX	6	229	-32	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	165 bps	2.264 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn-AX	6	104	-32	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	353 bps	2.274 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn-AX	6	214	-31	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan3	261 bps	2.278 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn-AX	6	456	-32	4C:B1:CD:18:E8:E8	172.18.101.146	d8:f8:83:36:6b:d6
1.2.20 wlan4	216 bps	2.273 Mbps	0	117 Mbps	516 Mbps	802.11bgn-AX	6	433	-39	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.21 wlan5	165 bps	2.28 Mbps	0	117 Mbps	458.8 Mbps	802.11bgn-AX	6	1,657	-39	4C:B1:CD:18:E8:E8	172.18.101.144	e8:f4:08:21:96:84
1.2.22 wlan6	164 bps	2.274 Mbps	0	117 Mbps	516 Mbps	802.11bgn-AX	6	536	-38	4C:B1:CD:18:E8:E8	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.23 wlan7	165 bps	2.278 Mbps	0	117 Mbps	516 Mbps	802.11bgn-AX	6	458	-40	4C:B1:CD:18:E8:E8	172.18.101.145	e8:f4:08:03:1e:3e
1.2.24 wlan8	164 bps	2.277 Mbps	0	117 Mbps	458.8 Mbps	802.11bgn-AX	6	543	-39	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2

1.2.25	165	2.271	0	117	516	802.11bgn-AX	6	184	-38	4C:B1:CD:18:E8:E8	172.18.101.149	e8:f4:08:03:1d:da
1.2.36	173	2.343	0	117	458.8	802.11bgn-AX	6	192	-39	4C:B1:CD:18:E8:E8	172.18.101.148	a4:6b:b6:3e:d6:04
1.2.37	176	2.314	0	117	516	802.11bgn-AX	6	185	-38	4C:B1:CD:18:E8:E8	172.18.101.150	e8:f4:08:1f:7b:88
1.3.28	796	2.294	0	117	413	802.11bgn-AX	6	2,179	-42	4C:B1:CD:18:E8:E8	172.18.101.156	e8:f4:08:03:1e:ac
1.3.29	887	2.292	0	117	516	802.11bgn-AX	6	503	-42	4C:B1:CD:18:E8:E8	172.18.101.160	e8:f4:08:02:55:a3
1.3.30	392	2.294	0	117	413	802.11bgn-AX	6	495	-41	4C:B1:CD:18:E8:E8	172.18.101.151	e8:f4:08:1f:9a:82
1.3.31	799	2.301	0	117	458.8	802.11bgn-AX	6	341	-39	4C:B1:CD:18:E8:E8	172.18.101.159	e8:f4:08:02:58:a5
1.3.32	154	2.294	0	117	516	802.11bgn-AX	6	431	-42	4C:B1:CD:18:E8:E8	172.18.101.161	e8:f4:08:02:57:d3
1.3.33	162	2.293	0	117	413	802.11bgn-AX	6	446	-41	4C:B1:CD:18:E8:E8	172.18.101.166	e8:f4:08:03:14:70
1.3.34	163	2.288	0	117	516	802.11bgn-AX	6	1,096	-39	4C:B1:CD:18:E8:E8	172.18.101.158	e8:f4:08:03:1e:57
1.3.35	163	2.286	0	117	413	802.11bgn-AX	6	278	-38	4C:B1:CD:18:E8:E8	172.18.101.157	e8:f4:08:20:86:04
1.3.36	163	2.281	0	117	516	802.11bgn-AX	6	1,087	-41	4C:B1:CD:18:E8:E8	172.18.101.155	e8:f4:08:03:25:b4
1.3.37	163	2.28	0	117	413	802.11bgn-AX	6	453	-39	4C:B1:CD:18:E8:E8	172.18.101.153	e8:f4:08:02:55:c6
1.3.38	164	2.279	0	117	413	802.11bgn-AX	6	276	-39	4C:B1:CD:18:E8:E8	172.18.101.165	e8:f4:08:02:57:79
1.3.39	164	2.285	0	117	413	802.11bgn-AX	6	114	-39	4C:B1:CD:18:E8:E8	172.18.101.152	e8:f4:08:02:58:23
1.3.40	164	2.274	0	117	516	802.11bgn-AX	6	1,255	-40	4C:B1:CD:18:E8:E8	172.18.101.169	e8:f4:08:03:1c:db
1.3.41	164	2.276	0	117	413	802.11bgn-AX	6	956	-38	4C:B1:CD:18:E8:E8	172.18.101.154	e8:f4:08:03:23:e3
1.3.42	164	2.27	0	117	516	802.11bgn-AX	6	967	-38	4C:B1:CD:18:E8:E8	172.18.101.163	e8:f4:08:02:58:ff
1.3.43	164	2.272	0	117	413	802.11bgn-AX	6	220	-38	4C:B1:CD:18:E8:E8	172.18.101.162	e8:f4:08:02:58:9b
1.3.44	156	2.288	0	117	573.5	802.11bgn-AX	6	809	-42	4C:B1:CD:18:E8:E8	172.18.101.170	e8:f4:08:1f:9b:6d
1.3.45	164	2.274	0	117	413	802.11bgn-AX	6	986	-39	4C:B1:CD:18:E8:E8	172.18.101.168	e8:f4:08:21:95:99
1.3.46	165	2.281	0	117	413	802.11bgn-AX	6	1,239	-38	4C:B1:CD:18:E8:E8	172.18.101.167	e8:f4:08:1f:9b:e5
1.3.47	165	2.278	0	117	458.8	802.11bgn-AX	6	117	-38	4C:B1:CD:18:E8:E8	172.18.101.164	e8:f4:08:02:55:8f

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	77.648 Mbps	5.19 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-2.wlan0--1.0.0-A	0 bps	3.094 Mbps	11	11	5	0
cv_udp-2.2-2.wlan0--1.0.0-B	3.095 Mbps	0 bps	0	11	0	0
cv_udp-2.2-2.wlan1--1.0.1-A	0 bps	3.095 Mbps	11	11	5	0
cv_udp-2.2-2.wlan1--1.0.1-B	3.096 Mbps	0 bps	0	11	0	0
cv_udp-2.2-2.wlan2--1.0.2-A	0 bps	3.099 Mbps	11	11	5	0
cv_udp-2.2-2.wlan2--1.0.2-B	3.098 Mbps	0 bps	0	11	0	0
cv_udp-2.2-2.wlan3--1.0.3-A	0 bps	3.107 Mbps	10	10	5	0
cv_udp-2.2-2.wlan3--1.0.3-B	3.107 Mbps	0 bps	0	10	0	0
cv_udp-2.2-2.wlan4--1.0.4-A	0 bps	3.098 Mbps	11	11	5	0
cv_udp-2.2-2.wlan4--1.0.4-B	3.098 Mbps	0 bps	0	11	0	0
cv_udp-2.2-2.wlan5--1.0.5-A	0 bps	3.108 Mbps	11	11	5	0
cv_udp-2.2-2.wlan5--1.0.5-B	3.108 Mbps	0 bps	0	11	0	0
cv_udp-2.2-2.wlan6--1.0.6-A	0 bps	3.093 Mbps	12	12	5	0

cv_udp-2.2-2.wlan6--1.0.6-B	3.093 Mbps	0 bps	0	12	0	0
cv_udp-2.2-2.wlan7--1.0.7-A	0 bps	3.106 Mbps	11	11	5	0
cv_udp-2.2-2.wlan7--1.0.7-B	3.105 Mbps	0 bps	0	11	0	0
cv_udp-2.2-2.wlan8--1.0.8-A	0 bps	3.1 Mbps	12	12	5	0
cv_udp-2.2-2.wlan8--1.0.8-B	3.1 Mbps	0 bps	0	12	0	0
cv_udp-2.2-2.wlan9--1.0.9-A	0 bps	3.093 Mbps	12	12	5	0
cv_udp-2.2-2.wlan9--1.0.9-B	3.093 Mbps	0 bps	0	12	0	0
cv_udp-2.2-2.wlan10--1.0.10-A	0 bps	3.106 Mbps	12	12	5	0
cv_udp-2.2-2.wlan10--1.0.10-B	3.106 Mbps	0 bps	0	12	0	0
cv_udp-2.2-2.wlan11--1.0.11-A	0 bps	3.097 Mbps	12	12	5	0
cv_udp-2.2-2.wlan11--1.0.11-B	3.097 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan0--1.0.12-A	0 bps	3.094 Mbps	11	11	6	0
cv_udp-2.2-3.wlan0--1.0.12-B	3.094 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan5--1.0.13-A	0 bps	3.097 Mbps	11	11	5	0
cv_udp-2.2-3.wlan5--1.0.13-B	3.095 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan10--1.0.14-A	0 bps	3.1 Mbps	11	11	5	0
cv_udp-2.2-3.wlan10--1.0.14-B	3.1 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan15--1.0.15-A	0 bps	3.108 Mbps	15	15	5	0
cv_udp-2.2-3.wlan15--1.0.15-B	3.109 Mbps	0 bps	0	15	0	0
cv_udp-2.2-3.wlan1--1.0.16-A	0 bps	3.098 Mbps	11	11	5	0
cv_udp-2.2-3.wlan1--1.0.16-B	3.098 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan6--1.0.17-A	0 bps	3.102 Mbps	11	11	5	0
cv_udp-2.2-3.wlan6--1.0.17-B	3.102 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan11--1.0.18-A	0 bps	3.098 Mbps	15	15	5	0
cv_udp-2.2-3.wlan11--1.0.18-B	3.099 Mbps	0 bps	0	15	0	0
cv_udp-2.2-3.wlan16--1.0.19-A	0 bps	3.098 Mbps	17	17	5	0.131
cv_udp-2.2-3.wlan16--1.0.19-B	3.097 Mbps	0 bps	0	17	0	0
cv_udp-2.2-3.wlan2--1.0.20-A	0 bps	3.095 Mbps	12	12	5	0
cv_udp-2.2-3.wlan2--1.0.20-B	3.095 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan7--1.0.21-A	0 bps	3.091 Mbps	11	11	5	0
cv_udp-2.2-3.wlan7--1.0.21-B	3.091 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan12--1.0.22-A	0 bps	3.095 Mbps	11	11	5	0
cv_udp-2.2-3.wlan12--1.0.22-B	3.094 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan17--1.0.23-A	0 bps	3.104 Mbps	12	12	5	0
cv_udp-2.2-3.wlan17--1.0.23-B	3.105 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan3--1.0.24-A	0 bps	3.093 Mbps	12	12	5	0
cv_udp-2.2-3.wlan3--1.0.24-B	3.093 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan8--1.0.25-A	0 bps	3.099 Mbps	10	10	5	0
cv_udp-2.2-3.wlan8--1.0.25-B	3.098 Mbps	0 bps	0	10	0	0
cv_udp-2.2-3.wlan13--1.0.26-A	0 bps	3.094 Mbps	12	12	5	0
cv_udp-2.2-3.wlan13--1.0.26-B	3.093 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan18--1.0.27-A	0 bps	3.091 Mbps	11	11	5	0
cv_udp-2.2-3.wlan18--1.0.27-B	3.092 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan4--1.0.28-A	0 bps	3.11 Mbps	12	12	5	0
cv_udp-2.2-3.wlan4--1.0.28-B	3.11 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan9--1.0.29-A	0 bps	3.094 Mbps	10	10	5	0
cv_udp-2.2-3.wlan9--1.0.29-B	3.094 Mbps	0 bps	0	10	0	0
cv_udp-2.2-3.wlan14--1.0.30-A	0 bps	3.104 Mbps	13	13	5	0
cv_udp-2.2-3.wlan14--1.0.30-B	3.104 Mbps	0 bps	0	13	0	0
cv_udp-2.2-3.wlan19--1.0.31-A	0 bps	3.102 Mbps	11	11	5	0
cv_udp-2.2-3.wlan19--1.0.31-B	3.102 Mbps	0 bps	0	11	0	0

Max-Cx-Test: Snapshot AX 2.4Ghz Upload

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link- Rate	Rx-Link- Rate	Mode	Channel	Last CX- Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	3.175 Mbps	7 bps	0	573.5 Mbps	573.5 Mbps	802.11bgn- AX	6	229	-26	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9

1.2.17 wlan1	2.966 Mbps	127 bps	0	573.5 Mbps	299.4 Mbps	802.11bgn-AX	6	120	-26	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	3.22 Mbps	6 bps	0	573.5 Mbps	573.5 Mbps	802.11bgn-AX	6	214	-26	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan3	3.219 Mbps	14 bps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	456	-26	4C:B1:CD:18:E8:E8	172.18.101.146	d8:f8:83:36:6b:d6
1.2.20 wlan4	3.004 Mbps	14 bps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	433	-36	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.21 wlan5	2.591 Mbps	128 bps	0	573.5 Mbps	299.4 Mbps	802.11bgn-AX	6	126	-36	4C:B1:CD:18:E8:E8	172.18.101.144	e8:f4:08:21:96:84
1.2.22 wlan6	2.597 Mbps	796 bps	0	573.5 Mbps	299.4 Mbps	802.11bgn-AX	6	113	-35	4C:B1:CD:18:E8:E8	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.23 wlan7	2.842 Mbps	128 bps	0	573.5 Mbps	299.4 Mbps	802.11bgn-AX	6	146	-35	4C:B1:CD:18:E8:E8	172.18.101.145	e8:f4:08:03:1e:3e
1.2.24 wlan8	2.938 Mbps	6 bps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	543	-35	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.25 wlan9	2.462 Mbps	140 bps	0	573.5 Mbps	299.4 Mbps	802.11bgn-AX	6	368	-34	4C:B1:CD:18:E8:E8	172.18.101.149	e8:f4:08:03:1d:da
1.2.36 wlan10	2.902 Mbps	14 bps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	192	-35	4C:B1:CD:18:E8:E8	172.18.101.148	a4:6b:b6:3e:d6:04
1.2.37 wlan11	2.982 Mbps	7 bps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	185	-35	4C:B1:CD:18:E8:E8	172.18.101.150	e8:f4:08:1f:7b:88
1.3.28 wlan0	2.937 Mbps	13 bps	0	541.6 Mbps	458.8 Mbps	802.11bgn-AX	6	2,179	-36	4C:B1:CD:18:E8:E8	172.18.101.156	e8:f4:08:03:1e:ac
1.3.29 wlan5	2.86 Mbps	13 bps	0	541.6 Mbps	573.5 Mbps	802.11bgn-AX	6	503	-36	4C:B1:CD:18:E8:E8	172.18.101.160	e8:f4:08:02:55:a3
1.3.30 wlan10	2.974 Mbps	6 bps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	495	-36	4C:B1:CD:18:E8:E8	172.18.101.151	e8:f4:08:1f:9a:82
1.3.31 wlan15	3.041 Mbps	13 bps	0	573.5 Mbps	413 Mbps	802.11bgn-AX	6	341	-35	4C:B1:CD:18:E8:E8	172.18.101.159	e8:f4:08:02:58:a5
1.3.32 wlan1	2.995 Mbps	13 bps	0	516 Mbps	516 Mbps	802.11bgn-AX	6	431	-36	4C:B1:CD:18:E8:E8	172.18.101.161	e8:f4:08:02:57:d3
1.3.33 wlan6	2.909 Mbps	13 bps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	446	-36	4C:B1:CD:18:E8:E8	172.18.101.166	e8:f4:08:03:14:70
1.3.34 wlan11	2.433 Mbps	238 bps	0	516 Mbps	299.4 Mbps	802.11bgn-AX	6	121	-36	4C:B1:CD:18:E8:E8	172.18.101.158	e8:f4:08:03:1e:57
1.3.35 wlan16	2.917 Mbps	6 bps	0	516 Mbps	413 Mbps	802.11bgn-AX	6	278	-36	4C:B1:CD:18:E8:E8	172.18.101.157	e8:f4:08:20:86:04
1.3.36 wlan2	2.958 Mbps	13 bps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	1,087	-36	4C:B1:CD:18:E8:E8	172.18.101.155	e8:f4:08:03:25:b4
1.3.37 wlan7	2.911 Mbps	13 bps	0	573.5 Mbps	413 Mbps	802.11bgn-AX	6	453	-36	4C:B1:CD:18:E8:E8	172.18.101.153	e8:f4:08:02:55:c6
1.3.38 wlan12	3.002 Mbps	13 bps	0	516 Mbps	413 Mbps	802.11bgn-AX	6	276	-35	4C:B1:CD:18:E8:E8	172.18.101.165	e8:f4:08:02:57:79
1.3.39 wlan17	3.066 Mbps	13 bps	0	541.6 Mbps	413 Mbps	802.11bgn-AX	6	114	-35	4C:B1:CD:18:E8:E8	172.18.101.152	e8:f4:08:02:58:23
1.3.40 wlan3	2.933 Mbps	13 bps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	1,255	-36	4C:B1:CD:18:E8:E8	172.18.101.169	e8:f4:08:03:1c:db
1.3.41 wlan8	2.939 Mbps	6 bps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	956	-35	4C:B1:CD:18:E8:E8	172.18.101.154	e8:f4:08:03:23:e3
1.3.42 wlan13	3.051 Mbps	13 bps	0	573.5 Mbps	413 Mbps	802.11bgn-AX	6	967	-35	4C:B1:CD:18:E8:E8	172.18.101.163	e8:f4:08:02:58:ff
1.3.43 wlan18	3.022 Mbps	13 bps	0	516 Mbps	458.8 Mbps	802.11bgn-AX	6	220	-35	4C:B1:CD:18:E8:E8	172.18.101.162	e8:f4:08:02:58:9b
1.3.44 wlan4	2.899 Mbps	1.296 Kbps	0	573.5 Mbps	11 Mbps	802.11bgn-AX	6	809	-36	4C:B1:CD:18:E8:E8	172.18.101.170	e8:f4:08:1f:9b:6d
1.3.45 wlan9	2.977 Mbps	6 bps	0	573.5 Mbps	413 Mbps	802.11bgn-AX	6	986	-36	4C:B1:CD:18:E8:E8	172.18.101.168	e8:f4:08:21:95:99
1.3.46 wlan14	3.073 Mbps	13 bps	0	516 Mbps	413 Mbps	802.11bgn-AX	6	1,239	-35	4C:B1:CD:18:E8:E8	172.18.101.167	e8:f4:08:1f:9b:e5
1.3.47 wlan19	2.944 Mbps	6 bps	0	458.8 Mbps	344.1 Mbps	802.11bgn-AX	6	117	-36	4C:B1:CD:18:E8:E8	172.18.101.164	e8:f4:08:02:55:8f

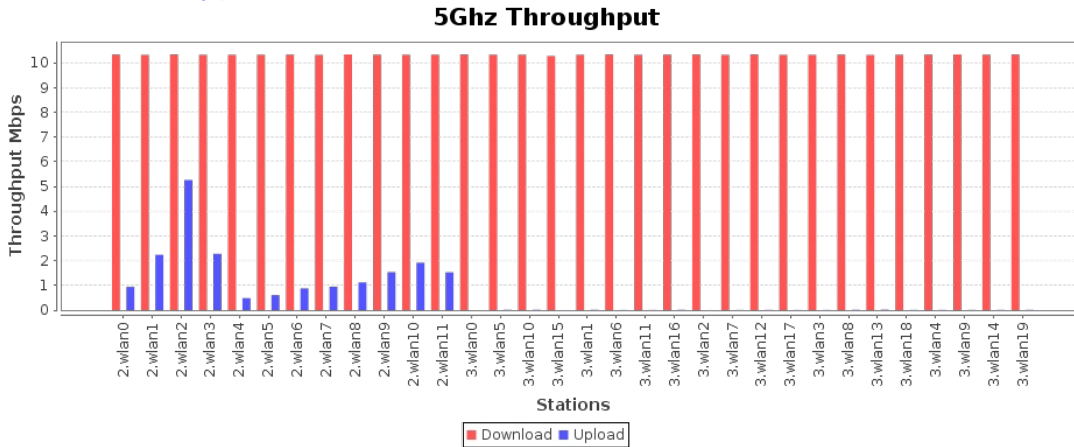
Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	1.446 Kbps	92.679 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-2.wlan0--1.0.0-A	3.04 Mbps	0 bps	0	13	0	0
cv_udp-2.2-2.wlan0--1.0.0-B	0 bps	3.041 Mbps	13	13	3	0
cv_udp-2.2-2.wlan1--1.0.1-A	3.135 Mbps	0 bps	0	4	0	0
cv_udp-2.2-2.wlan1--1.0.1-B	0 bps	3.141 Mbps	4	4	2	0
cv_udp-2.2-2.wlan2--1.0.2-A	3.083 Mbps	0 bps	0	5	0	0
cv_udp-2.2-2.wlan2--1.0.2-B	0 bps	3.083 Mbps	5	5	2	0
cv_udp-2.2-2.wlan3--1.0.3-A	3.085 Mbps	0 bps	0	6	0	0
cv_udp-2.2-2.wlan3--1.0.3-B	0 bps	3.084 Mbps	6	6	2	0.005
cv_udp-2.2-2.wlan4--1.0.4-A	2.884 Mbps	0 bps	0	25	0	0
cv_udp-2.2-2.wlan4--1.0.4-B	0 bps	2.884 Mbps	25	25	4	0
cv_udp-2.2-2.wlan5--1.0.5-A	630.699 Kbps	0 bps	0	28	0	0
cv_udp-2.2-2.wlan5--1.0.5-B	0 bps	628.929 Kbps	28	28	6	0.661
cv_udp-2.2-2.wlan6--1.0.6-A	1.3 Mbps	0 bps	0	74	0	0
cv_udp-2.2-2.wlan6--1.0.6-B	0 bps	1.299 Mbps	74	74	13	0.687
cv_udp-2.2-2.wlan7--1.0.7-A	2.662 Mbps	0 bps	0	14	0	0
cv_udp-2.2-2.wlan7--1.0.7-B	0 bps	2.687 Mbps	14	14	5	0
cv_udp-2.2-2.wlan8--1.0.8-A	2.854 Mbps	0 bps	0	24	0	0
cv_udp-2.2-2.wlan8--1.0.8-B	0 bps	2.856 Mbps	24	24	4	0
cv_udp-2.2-2.wlan9--1.0.9-A	570.716 Kbps	0 bps	0	34	0	0
cv_udp-2.2-2.wlan9--1.0.9-B	0 bps	572.402 Kbps	34	34	4	0.451
cv_udp-2.2-2.wlan10--1.0.10-A	2.773 Mbps	0 bps	0	29	0	0
cv_udp-2.2-2.wlan10--1.0.10-B	0 bps	2.784 Mbps	29	29	4	0
cv_udp-2.2-2.wlan11--1.0.11-A	2.842 Mbps	0 bps	0	38	0	0
cv_udp-2.2-2.wlan11--1.0.11-B	0 bps	2.843 Mbps	38	38	5	0
cv_udp-2.2-3.wlan0--1.0.12-A	2.827 Mbps	0 bps	0	40	0	0
cv_udp-2.2-3.wlan0--1.0.12-B	0 bps	2.835 Mbps	40	40	4	0
cv_udp-2.2-3.wlan5--1.0.13-A	2.75 Mbps	0 bps	0	38	0	0
cv_udp-2.2-3.wlan5--1.0.13-B	0 bps	2.75 Mbps	38	38	5	0
cv_udp-2.2-3.wlan10--1.0.14-A	2.851 Mbps	0 bps	0	67	0	0
cv_udp-2.2-3.wlan10--1.0.14-B	0 bps	2.839 Mbps	67	67	4	0
cv_udp-2.2-3.wlan15--1.0.15-A	2.918 Mbps	0 bps	0	20	0	0
cv_udp-2.2-3.wlan15--1.0.15-B	0 bps	2.912 Mbps	20	20	3	0
cv_udp-2.2-3.wlan1--1.0.16-A	2.881 Mbps	0 bps	0	42	0	0
cv_udp-2.2-3.wlan1--1.0.16-B	0 bps	2.89 Mbps	42	42	5	0
cv_udp-2.2-3.wlan6--1.0.17-A	2.77 Mbps	0 bps	0	57	0	0
cv_udp-2.2-3.wlan6--1.0.17-B	0 bps	2.772 Mbps	57	57	4	0
cv_udp-2.2-3.wlan11--1.0.18-A	263.283 Kbps	0 bps	0	38	0	0
cv_udp-2.2-3.wlan11--1.0.18-B	0 bps	290.306 Kbps	38	38	4	0.566
cv_udp-2.2-3.wlan16--1.0.19-A	2.801 Mbps	0 bps	0	62	0	0
cv_udp-2.2-3.wlan16--1.0.19-B	0 bps	2.802 Mbps	62	62	5	0
cv_udp-2.2-3.wlan2--1.0.20-A	2.842 Mbps	0 bps	0	33	0	0
cv_udp-2.2-3.wlan2--1.0.20-B	0 bps	2.847 Mbps	33	33	4	0
cv_udp-2.2-3.wlan7--1.0.21-A	2.809 Mbps	0 bps	0	42	0	0
cv_udp-2.2-3.wlan7--1.0.21-B	0 bps	2.804 Mbps	42	42	4	0
cv_udp-2.2-3.wlan12--1.0.22-A	2.863 Mbps	0 bps	0	33	0	0
cv_udp-2.2-3.wlan12--1.0.22-B	0 bps	2.862 Mbps	33	33	3	0
cv_udp-2.2-3.wlan17--1.0.23-A	2.934 Mbps	0 bps	0	26	0	0
cv_udp-2.2-3.wlan17--1.0.23-B	0 bps	2.936 Mbps	26	26	4	0
cv_udp-2.2-3.wlan3--1.0.24-A	2.814 Mbps	0 bps	0	38	0	0
cv_udp-2.2-3.wlan3--1.0.24-B	0 bps	2.808 Mbps	38	38	5	0
cv_udp-2.2-3.wlan8--1.0.25-A	2.818 Mbps	0 bps	0	49	0	0
cv_udp-2.2-3.wlan8--1.0.25-B	0 bps	2.815 Mbps	49	49	4	0
cv_udp-2.2-3.wlan13--1.0.26-A	2.925 Mbps	0 bps	0	64	0	0
cv_udp-2.2-3.wlan13--1.0.26-B	0 bps	2.92 Mbps	64	64	6	0
cv_udp-2.2-3.wlan18--1.0.27-A	2.899 Mbps	0 bps	0	38	0	0
cv_udp-2.2-3.wlan18--1.0.27-B	0 bps	2.899 Mbps	38	38	4	0
cv_udp-2.2-3.wlan4--1.0.28-A	2.785 Mbps	0 bps	0	47	0	0

cv_udp-2.2-3.wlan4--1.0.28-B	0 bps	2.78 Mbps	47	47	5	0
cv_udp-2.2-3.wlan9--1.0.29-A	2.85 Mbps	0 bps	0	78	0	0
cv_udp-2.2-3.wlan9--1.0.29-B	0 bps	2.851 Mbps	78	78	7	0
cv_udp-2.2-3.wlan14--1.0.30-A	2.96 Mbps	0 bps	0	43	0	0
cv_udp-2.2-3.wlan14--1.0.30-B	0 bps	2.96 Mbps	43	43	4	0.735
cv_udp-2.2-3.wlan19--1.0.31-A	2.806 Mbps	0 bps	0	47	0	0
cv_udp-2.2-3.wlan19--1.0.31-B	0 bps	2.804 Mbps	47	47	4	0

AX 5Ghz Throughput (goodput) for each station.

[CSV Data for 5Ghz Throughput](#)



Max-Cx-Test: Snapshot AX 5Ghz Download

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	159 bps	7.607 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	430	-43	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	160 bps	7.608 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	550	-40	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	160 bps	7.624 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	391	-42	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan3	439 bps	7.623 Mbps	0	245 Mbps	1.081 Gbps	802.11an-AX	36	302	-43	4C:B1:CD:18:E8:EC	172.18.101.146	d8:f8:83:36:6b:d6
1.2.20 wlan4	438 bps	7.622 Mbps	0	245 Mbps	1.081 Gbps	802.11an-AX	36	265	-44	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.21 wlan5	393 bps	7.633 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	266	-46	4C:B1:CD:18:E8:EC	172.18.101.144	e8:f4:08:21:96:84
1.2.27 wlan6	512 bps	7.598 Mbps	0	245 Mbps	1.081 Gbps	802.11an-AX	36	266	-45	4C:B1:CD:18:E8:EC	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.29 wlan7	159 bps	7.75 Mbps	0	245 Mbps	1.081 Gbps	802.11an-AX	36	186	-46	4C:B1:CD:18:E8:EC	172.18.101.145	e8:f4:08:03:1e:3e
1.2.30 wlan8	159 bps	7.74 Mbps	0	245 Mbps	864.8 Mbps	802.11an-AX	36	237	-47	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.31 wlan9	483 bps	7.716 Mbps	0	245 Mbps	1.081 Gbps	802.11an-AX	36	267	-48	4C:B1:CD:18:E8:EC	172.18.101.149	e8:f4:08:03:1d:da
1.2.32 wlan10	392 bps	7.707 Mbps	0	245 Mbps	960.7 Mbps	802.11an-AX	36	177	-47	4C:B1:CD:18:E8:EC	172.18.101.148	a4:6b:b6:3e:d6:04
1.2.33 wlan11	159 bps	7.7 Mbps	0	245 Mbps	864.8 Mbps	802.11an-AX	36	160	-49	4C:B1:CD:18:E8:EC	172.18.101.150	e8:f4:08:1f:7b:88
1.3.28 wlan0	2.341 Kbps	7.591 Mbps	0	245 Mbps	960.7 Mbps	802.11an-AX	36	841	-50	4C:B1:CD:18:E8:EC	172.18.101.156	e8:f4:08:03:1e:ac
1.3.29 wlan5	2.599 Kbps	7.661 Mbps	0	245 Mbps	960.7 Mbps	802.11an-AX	36	631	-48	4C:B1:CD:18:E8:EC	172.18.101.160	e8:f4:08:02:55:a3
1.3.30 wlan10	1.813 Kbps	7.551 Mbps	0	245 Mbps	1.081 Gbps	802.11an-AX	36	400	-48	4C:B1:CD:18:E8:EC	172.18.101.151	e8:f4:08:1f:9a:82

1.3.31	2.851	7.542	0	245	864.8	802.11an-	36	386	-49	4C:B1:CD:18:E8:EC	172.18.101.159	e8:f4:08:02:58:a5
wlan15	Kbps	Mbps		Mbps	Mbps	AX						
1.3.32	507	7.494	0	245	960.7	802.11an-	36	470	-49	4C:B1:CD:18:E8:EC	172.18.101.161	e8:f4:08:02:57:d3
wlan1	bps	Mbps		Mbps	Mbps	AX						
1.3.33	164	7.538	0	245	960.7	802.11an-	36	355	-49	4C:B1:CD:18:E8:EC	172.18.101.166	e8:f4:08:03:14:70
wlan6	bps	Mbps		Mbps	Mbps	AX						
1.3.34	165	7.549	0	245	960.7	802.11an-	36	110	-49	4C:B1:CD:18:E8:EC	172.18.101.158	e8:f4:08:03:1e:57
wlan11	bps	Mbps		Mbps	Mbps	AX						
1.3.35	835	7.551	0	245	864.8	802.11an-	36	222	-48	4C:B1:CD:18:E8:EC	172.18.101.157	e8:f4:08:20:86:04
wlan16	bps	Mbps		Mbps	Mbps	AX						
1.3.36	166	7.551	0	245	1.081	802.11an-	36	420	-50	4C:B1:CD:18:E8:EC	172.18.101.155	e8:f4:08:03:25:b4
wlan2	bps	Mbps		Mbps	Gbps	AX						
1.3.37	166	7.538	0	245	960.7	802.11an-	36	205	-49	4C:B1:CD:18:E8:EC	172.18.101.153	e8:f4:08:02:55:c6
wlan7	bps	Mbps		Mbps	Mbps	AX						
1.3.38	166	7.54	0	245	864.8	802.11an-	36	408	-49	4C:B1:CD:18:E8:EC	172.18.101.165	e8:f4:08:02:57:79
wlan12	bps	Mbps		Mbps	Mbps	AX						
1.3.39	166	7.535	0	245	864.8	802.11an-	36	411	-47	4C:B1:CD:18:E8:EC	172.18.101.152	e8:f4:08:02:58:23
wlan17	bps	Mbps		Mbps	Mbps	AX						
1.3.40	167	7.532	0	245	960.7	802.11an-	36	514	-49	4C:B1:CD:18:E8:EC	172.18.101.169	e8:f4:08:03:1c:db
wlan3	bps	Mbps		Mbps	Mbps	AX						
1.3.41	167	7.544	0	245	960.7	802.11an-	36	329	-51	4C:B1:CD:18:E8:EC	172.18.101.154	e8:f4:08:03:23:e3
wlan8	bps	Mbps		Mbps	Mbps	AX						
1.3.42	158	7.527	0	245	864.8	802.11an-	36	177	-48	4C:B1:CD:18:E8:EC	172.18.101.163	e8:f4:08:02:58:ff
wlan13	bps	Mbps		Mbps	Mbps	AX						
1.3.43	644	7.522	0	245	864.8	802.11an-	36	188	-48	4C:B1:CD:18:E8:EC	172.18.101.162	e8:f4:08:02:58:9b
wlan18	bps	Mbps		Mbps	Mbps	AX						
1.3.44	168	7.531	0	245	960.7	802.11an-	36	435	-49	4C:B1:CD:18:E8:EC	172.18.101.170	e8:f4:08:1f:9b:6d
wlan4	bps	Mbps		Mbps	Mbps	AX						
1.3.45	168	7.527	0	245	960.7	802.11an-	36	197	-49	4C:B1:CD:18:E8:EC	172.18.101.168	e8:f4:08:21:95:99
wlan9	bps	Mbps		Mbps	Mbps	AX						
1.3.46	510	7.521	0	245	864.8	802.11an-	36	469	-47	4C:B1:CD:18:E8:EC	172.18.101.167	e8:f4:08:1f:9b:e5
wlan14	bps	Mbps		Mbps	Mbps	AX						
1.3.47	168	7.525	0	245	864.8	802.11an-	36	154	-49	4C:B1:CD:18:E8:EC	172.18.101.164	e8:f4:08:02:55:8f
wlan19	bps	Mbps		Mbps	Mbps	AX						

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	248.481 Mbps	14.585 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-2.wlan0--1.0.0-A	0 bps	10.338 Mbps	11	11	1	0
cv_udp-2.2-2.wlan0--1.0.0-B	10.339 Mbps	0 bps	0	11	0	0
cv_udp-2.2-2.wlan1--1.0.1-A	0 bps	10.327 Mbps	13	13	2	0
cv_udp-2.2-2.wlan1--1.0.1-B	10.327 Mbps	0 bps	0	13	0	0
cv_udp-2.2-2.wlan2--1.0.2-A	0 bps	10.34 Mbps	12	12	1	0
cv_udp-2.2-2.wlan2--1.0.2-B	10.341 Mbps	0 bps	0	12	0	0
cv_udp-2.2-2.wlan3--1.0.3-A	0 bps	10.329 Mbps	12	12	1	0
cv_udp-2.2-2.wlan3--1.0.3-B	10.327 Mbps	0 bps	0	12	0	0
cv_udp-2.2-2.wlan4--1.0.4-A	0 bps	10.33 Mbps	12	12	1	0
cv_udp-2.2-2.wlan4--1.0.4-B	10.329 Mbps	0 bps	0	12	0	0
cv_udp-2.2-2.wlan5--1.0.5-A	0 bps	10.335 Mbps	12	12	1	0
cv_udp-2.2-2.wlan5--1.0.5-B	10.333 Mbps	0 bps	0	12	0	0
cv_udp-2.2-2.wlan6--1.0.6-A	0 bps	10.335 Mbps	13	13	1	0.114
cv_udp-2.2-2.wlan6--1.0.6-B	10.335 Mbps	0 bps	0	13	0	0
cv_udp-2.2-2.wlan7--1.0.7-A	0 bps	10.33 Mbps	11	11	1	0
cv_udp-2.2-2.wlan7--1.0.7-B	10.327 Mbps	0 bps	0	11	0	0
cv_udp-2.2-2.wlan8--1.0.8-A	0 bps	10.347 Mbps	13	13	1	0.016
cv_udp-2.2-2.wlan8--1.0.8-B	10.344 Mbps	0 bps	0	13	0	0
cv_udp-2.2-2.wlan9--1.0.9-A	0 bps	10.333 Mbps	13	13	1	0
cv_udp-2.2-2.wlan9--1.0.9-B	10.332 Mbps	0 bps	0	13	0	0
cv_udp-2.2-2.wlan10--1.0.10-A	0 bps	10.334 Mbps	13	13	1	0
cv_udp-2.2-2.wlan10--1.0.10-B	10.334 Mbps	0 bps	0	13	0	0
cv_udp-2.2-2.wlan11--1.0.11-A	0 bps	10.338 Mbps	13	13	1	0

cv_udp-2.2-2.wlan11--1.0.11-B	10.335 Mbps	0 bps	0	13	0	0
cv_udp-2.2-3.wlan0--1.0.12-A	0 bps	10.34 Mbps	15	15	2	0
cv_udp-2.2-3.wlan0--1.0.12-B	10.342 Mbps	0 bps	0	15	0	0
cv_udp-2.2-3.wlan5--1.0.13-A	0 bps	10.331 Mbps	14	14	1	0
cv_udp-2.2-3.wlan5--1.0.13-B	10.333 Mbps	0 bps	0	14	0	0
cv_udp-2.2-3.wlan10--1.0.14-A	0 bps	10.335 Mbps	12	12	2	0
cv_udp-2.2-3.wlan10--1.0.14-B	10.337 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan15--1.0.15-A	0 bps	10.326 Mbps	13	13	1	0
cv_udp-2.2-3.wlan15--1.0.15-B	10.326 Mbps	0 bps	0	13	0	0
cv_udp-2.2-3.wlan1--1.0.16-A	0 bps	10.33 Mbps	14	14	1	0
cv_udp-2.2-3.wlan1--1.0.16-B	10.331 Mbps	0 bps	0	14	0	0
cv_udp-2.2-3.wlan6--1.0.17-A	0 bps	10.341 Mbps	12	12	2	0
cv_udp-2.2-3.wlan6--1.0.17-B	10.341 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan11--1.0.18-A	0 bps	10.338 Mbps	12	12	1	0
cv_udp-2.2-3.wlan11--1.0.18-B	10.337 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan16--1.0.19-A	0 bps	10.34 Mbps	12	12	2	0.468
cv_udp-2.2-3.wlan16--1.0.19-B	10.341 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan2--1.0.20-A	0 bps	10.345 Mbps	13	13	1	0
cv_udp-2.2-3.wlan2--1.0.20-B	10.342 Mbps	0 bps	0	13	0	0
cv_udp-2.2-3.wlan7--1.0.21-A	0 bps	10.328 Mbps	11	11	1	0
cv_udp-2.2-3.wlan7--1.0.21-B	10.326 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan12--1.0.22-A	0 bps	10.343 Mbps	14	14	1	0.007
cv_udp-2.2-3.wlan12--1.0.22-B	10.343 Mbps	0 bps	0	14	0	0
cv_udp-2.2-3.wlan17--1.0.23-A	0 bps	10.329 Mbps	11	11	1	0
cv_udp-2.2-3.wlan17--1.0.23-B	10.327 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan3--1.0.24-A	0 bps	10.334 Mbps	14	14	1	0
cv_udp-2.2-3.wlan3--1.0.24-B	10.331 Mbps	0 bps	0	14	0	0
cv_udp-2.2-3.wlan8--1.0.25-A	0 bps	10.34 Mbps	11	11	1	0
cv_udp-2.2-3.wlan8--1.0.25-B	10.338 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan13--1.0.26-A	0 bps	10.328 Mbps	13	13	2	0
cv_udp-2.2-3.wlan13--1.0.26-B	10.33 Mbps	0 bps	0	13	0	0
cv_udp-2.2-3.wlan18--1.0.27-A	0 bps	10.332 Mbps	11	11	1	0
cv_udp-2.2-3.wlan18--1.0.27-B	10.333 Mbps	0 bps	0	11	0	0
cv_udp-2.2-3.wlan4--1.0.28-A	0 bps	10.339 Mbps	13	13	2	0
cv_udp-2.2-3.wlan4--1.0.28-B	10.341 Mbps	0 bps	0	13	0	0
cv_udp-2.2-3.wlan9--1.0.29-A	0 bps	10.345 Mbps	12	12	1	0
cv_udp-2.2-3.wlan9--1.0.29-B	10.342 Mbps	0 bps	0	12	0	0
cv_udp-2.2-3.wlan14--1.0.30-A	0 bps	10.337 Mbps	14	14	1	0
cv_udp-2.2-3.wlan14--1.0.30-B	10.337 Mbps	0 bps	0	14	0	0
cv_udp-2.2-3.wlan19--1.0.31-A	0 bps	10.34 Mbps	13	13	1	0
cv_udp-2.2-3.wlan19--1.0.31-B	10.341 Mbps	0 bps	0	13	0	0

Max-Cx-Test: Snapshot AX 5Ghz Upload

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link- Rate	Rx-Link- Rate	Mode	Channel	Last CX- Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	1.421 Mbps	20 bps	14.242	24 Mbps	1.201 Gbps	802.11an- AX	36	430	-36	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	2.774 Mbps	20 bps	10.537	65 Mbps	1.081 Gbps	802.11an- AX	36	550	-36	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	5.92 Mbps	15 bps	2.285	68.8 Mbps	1.201 Gbps	802.11an- AX	36	391	-36	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan3	2.702 Mbps	30 bps	9.369	87.7 Mbps	1.201 Gbps	802.11an- AX	36	302	-35	4C:B1:CD:18:E8:EC	172.18.101.146	d8:f8:83:36:6b:d6
1.2.20 wlan4	688.296 Kbps	127 bps	5.82	43.8 Mbps	626.9 Mbps	802.11an- AX	36	253	-41	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.21 wlan5	843.158 Kbps	14 bps	18.204	68.8 Mbps	1.201 Gbps	802.11an- AX	36	266	-40	4C:B1:CD:18:E8:EC	172.18.101.144	e8:f4:08:21:96:84
1.2.27 wlan6	1.009 Mbps	497 bps	21.322	18 Mbps	24 Mbps	802.11an- AX	36	505	-40	4C:B1:CD:18:E8:EC	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.29	1.255			48.7	1.081	802.11an-						

wlan7	Mbps	7 bps	5.369	Mbps	Gbps	AX	36	186	-41	4C:B1:CD:18:E8:EC	172.18.101.145	e8:f4:08:03:1e:3e
1.2.30 wlan8	1.263 Mbps	189 bps	0	1134.2 Mbps	626.9 Mbps	802.11an-AX	36	346	-45	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.31 wlan9	1.74 Mbps	15 bps	0	1200.9 Mbps	960.7 Mbps	802.11an-AX	36	267	-45	4C:B1:CD:18:E8:EC	172.18.101.149	e8:f4:08:03:1d:da
1.2.32 wlan10	2.096 Mbps	15 bps	0	816.7 Mbps	960.7 Mbps	802.11an-AX	36	177	-45	4C:B1:CD:18:E8:EC	172.18.101.148	a4:6b:b6:3e:d6:04
1.2.33 wlan11	1.679 Mbps	7 bps	0	0 Mbps	0 bps	802.11an-AX	0	160	0	null	172.18.101.150	e8:f4:08:1f:7b:88
1.3.28 wlan0	107.027 Kbps	0 bps	30.464	6 Mbps	1.081 Gbps	802.11an-AX	36	841	-43	4C:B1:CD:18:E8:EC	172.18.101.156	e8:f4:08:03:1e:ac
1.3.29 wlan5	19.756 Kbps	0 bps	41.078	0 Mbps	0 bps	802.11an-AX	0	631	0	null	172.18.101.160	e8:f4:08:02:55:a3
1.3.30 wlan10	27.604 Kbps	0 bps	59.231	6 Mbps	1.081 Gbps	802.11an-AX	36	400	-44	4C:B1:CD:18:E8:EC	172.18.101.151	e8:f4:08:1f:9a:82
1.3.31 wlan15	15.773 Kbps	0 bps	48.342	6 Mbps	864.8 Mbps	802.11an-AX	36	386	-43	4C:B1:CD:18:E8:EC	172.18.101.159	e8:f4:08:02:58:a5
1.3.32 wlan1	33.264 Kbps	42 bps	63.845	14.6 Mbps	960.7 Mbps	802.11an-AX	36	470	-43	4C:B1:CD:18:E8:EC	172.18.101.161	e8:f4:08:02:57:d3
1.3.33 wlan6	31.779 Kbps	29 bps	61.793	6 Mbps	960.7 Mbps	802.11an-AX	36	355	-45	4C:B1:CD:18:E8:EC	172.18.101.166	e8:f4:08:03:14:70
1.3.34 wlan11	25.316 Kbps	120 bps	55.199	245 Mbps	6 Mbps	802.11an-AX	36	110	-44	4C:B1:CD:18:E8:EC	0.0.0.0	e8:f4:08:03:1e:57
1.3.35 wlan16	33.38 Kbps	44 bps	62.541	6 Mbps	149.7 Mbps	802.11an-AX	36	222	-43	4C:B1:CD:18:E8:EC	172.18.101.157	e8:f4:08:20:86:04
1.3.36 wlan2	23.945 Kbps	434 bps	69.451	6 Mbps	626.9 Mbps	802.11an-AX	36	1,523	-44	4C:B1:CD:18:E8:EC	172.18.101.155	e8:f4:08:03:25:b4
1.3.37 wlan7	11.311 Kbps	658 bps	43.072	245 Mbps	24 Mbps	802.11an-AX	36	3,965	-44	4C:B1:CD:18:E8:EC	0.0.0.0	e8:f4:08:02:55:c6
1.3.38 wlan12	17.344 Kbps	0 bps	57.711	14.6 Mbps	864.8 Mbps	802.11an-AX	36	408	-43	4C:B1:CD:18:E8:EC	172.18.101.165	e8:f4:08:02:57:79
1.3.39 wlan17	14.327 Kbps	303 bps	56.012	245 Mbps	24 Mbps	802.11an-AX	36	1,746	-47	4C:B1:CD:18:E8:EC	0.0.0.0	e8:f4:08:02:58:23
1.3.40 wlan3	31.7 Kbps	37 bps	79.887	6 Mbps	960.7 Mbps	802.11an-AX	36	514	-43	4C:B1:CD:18:E8:EC	172.18.101.169	e8:f4:08:03:1c:db
1.3.41 wlan8	33.286 Kbps	157 bps	75.072	6 Mbps	960.7 Mbps	802.11an-AX	36	329	-43	4C:B1:CD:18:E8:EC	172.18.101.154	e8:f4:08:03:23:e3
1.3.42 wlan13	30.822 Kbps	149 bps	58.572	6 Mbps	864.8 Mbps	802.11an-AX	36	177	-43	4C:B1:CD:18:E8:EC	172.18.101.163	e8:f4:08:02:58:ff
1.3.43 wlan18	23.56 Kbps	142 bps	63.449	8.6 Mbps	864.8 Mbps	802.11an-AX	36	188	-44	4C:B1:CD:18:E8:EC	172.18.101.162	e8:f4:08:02:58:9b
1.3.44 wlan4	29.498 Kbps	620 bps	76.06	6 Mbps	24 Mbps	802.11an-AX	36	435	-43	4C:B1:CD:18:E8:EC	172.18.101.170	e8:f4:08:1f:9b:6d
1.3.45 wlan9	24.48 Kbps	52 bps	89.108	14.6 Mbps	960.7 Mbps	802.11an-AX	36	197	-43	4C:B1:CD:18:E8:EC	172.18.101.168	e8:f4:08:21:95:99
1.3.46 wlan14	34.809 Kbps	44 bps	86.364	6 Mbps	864.8 Mbps	802.11an-AX	36	469	-43	4C:B1:CD:18:E8:EC	172.18.101.167	e8:f4:08:1f:9b:e5
1.3.47 wlan19	34.072 Kbps	28 bps	89.184	6 Mbps	149.7 Mbps	802.11an-AX	36	154	-44	4C:B1:CD:18:E8:EC	172.18.101.164	e8:f4:08:02:55:8f

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	1.915 Kbps	21.897 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

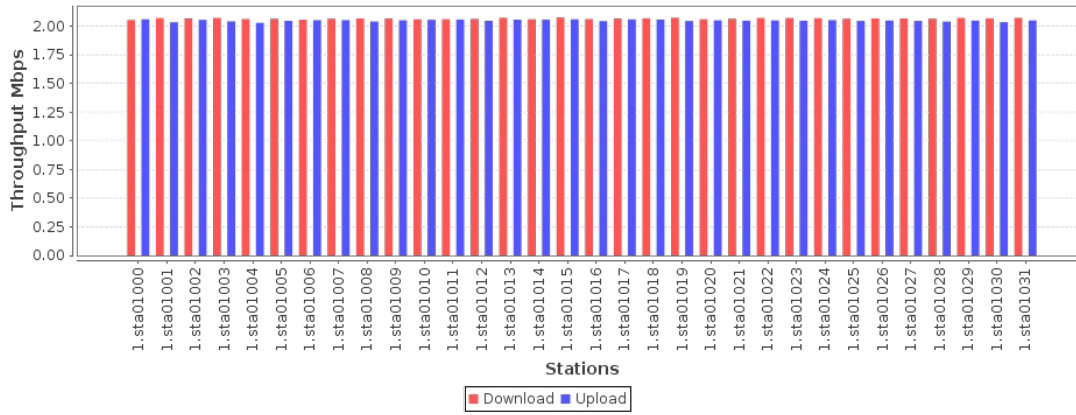
Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-2.wlan0--1.0.0-A	904.558 Kbps	0 bps	0	86	0	0
cv_udp-2.2-2.wlan0--1.0.0-B	0 bps	783.861 Kbps	86	86	7	9.301
cv_udp-2.2-2.wlan1--1.0.1-A	3.232 Mbps	0 bps	0	36	0	0
cv_udp-2.2-2.wlan1--1.0.1-B	0 bps	3.099 Mbps	36	36	10	4.419
cv_udp-2.2-2.wlan2--1.0.2-A	6.531 Mbps	0 bps	0	74	0	0
cv_udp-2.2-2.wlan2--1.0.2-B	0 bps	6.23 Mbps	74	74	1	3.008
cv_udp-2.2-2.wlan3--1.0.3-A	3.017 Mbps	0 bps	0	76	0	0
cv_udp-2.2-2.wlan3--1.0.3-B	0 bps	2.94 Mbps	76	76	1	4.946
cv_udp-2.2-2.wlan4--1.0.4-A	692.032 Kbps	0 bps	0	1,235	0	0

cv_udp-2.2-2.wlan4--1.0.4-B	0 bps	553.981 Kbps	1,235	1,235	54	21.401
cv_udp-2.2-2.wlan5--1.0.5-A	790.725 Kbps	0 bps	0	382	0	0
cv_udp-2.2-2.wlan5--1.0.5-B	0 bps	665.617 Kbps	382	382	28	14.203
cv_udp-2.2-2.wlan6--1.0.6-A	1.14 Mbps	0 bps	0	301	0	0
cv_udp-2.2-2.wlan6--1.0.6-B	0 bps	1.06 Mbps	301	301	6	8.648
cv_udp-2.2-2.wlan7--1.0.7-A	1.282 Mbps	0 bps	0	906	0	0
cv_udp-2.2-2.wlan7--1.0.7-B	0 bps	1.026 Mbps	906	906	64	19.189
cv_udp-2.2-2.wlan8--1.0.8-A	892.689 Kbps	0 bps	0	248	0	0
cv_udp-2.2-2.wlan8--1.0.8-B	0 bps	835.81 Kbps	248	248	3	9.43
cv_udp-2.2-2.wlan9--1.0.9-A	1.739 Mbps	0 bps	0	364	0	0
cv_udp-2.2-2.wlan9--1.0.9-B	0 bps	1.638 Mbps	364	364	3	6.135
cv_udp-2.2-2.wlan10--1.0.10-A	2.087 Mbps	0 bps	0	378	0	0
cv_udp-2.2-2.wlan10--1.0.10-B	0 bps	2.036 Mbps	378	378	9	1.728
cv_udp-2.2-2.wlan11--1.0.11-A	1.525 Mbps	0 bps	0	229	0	0
cv_udp-2.2-2.wlan11--1.0.11-B	0 bps	1.383 Mbps	229	229	1	7.251
cv_udp-2.2-3.wlan0--1.0.12-A	135.034 Kbps	0 bps	0	0	0	0
cv_udp-2.2-3.wlan0--1.0.12-B	0 bps	0 bps	0	0	0	100
cv_udp-2.2-3.wlan5--1.0.13-A	83.714 Kbps	0 bps	0	19,080	0	0
cv_udp-2.2-3.wlan5--1.0.13-B	0 bps	11.585 Kbps	19,080	19,080	949	83.333
cv_udp-2.2-3.wlan10--1.0.14-A	77.234 Kbps	0 bps	0	15,917	0	0
cv_udp-2.2-3.wlan10--1.0.14-B	0 bps	13.166 Kbps	15,917	15,917	709	79.665
cv_udp-2.2-3.wlan15--1.0.15-A	148.1 Kbps	0 bps	0	4,221	0	0
cv_udp-2.2-3.wlan15--1.0.15-B	0 bps	0 bps	4,221	4,221	235	98.477
cv_udp-2.2-3.wlan1--1.0.16-A	41.545 Kbps	0 bps	0	16,048	0	0
cv_udp-2.2-3.wlan1--1.0.16-B	0 bps	11.986 Kbps	16,048	16,048	798	74.227
cv_udp-2.2-3.wlan6--1.0.17-A	54.04 Kbps	0 bps	0	21,691	0	0
cv_udp-2.2-3.wlan6--1.0.17-B	0 bps	7.657 Kbps	21,691	21,691	1,226	86.348
cv_udp-2.2-3.wlan11--1.0.18-A	70.615 Kbps	0 bps	0	19,082	0	0
cv_udp-2.2-3.wlan11--1.0.18-B	0 bps	6.114 Kbps	19,082	19,082	1,217	90.39
cv_udp-2.2-3.wlan16--1.0.19-A	87.442 Kbps	0 bps	0	14,732	0	0
cv_udp-2.2-3.wlan16--1.0.19-B	0 bps	12.815 Kbps	14,732	14,732	1,025	82.2
cv_udp-2.2-3.wlan2--1.0.20-A	27.308 Kbps	0 bps	0	16,683	0	0
cv_udp-2.2-3.wlan2--1.0.20-B	0 bps	4.332 Kbps	16,683	16,683	960	77.536
cv_udp-2.2-3.wlan7--1.0.21-A	99.906 Kbps	0 bps	0	15,129	0	0
cv_udp-2.2-3.wlan7--1.0.21-B	0 bps	7.563 Kbps	15,129	15,129	884	92.429
cv_udp-2.2-3.wlan12--1.0.22-A	58.134 Kbps	0 bps	0	27,289	0	0
cv_udp-2.2-3.wlan12--1.0.22-B	0 bps	10.449 Kbps	27,289	27,289	1,109	81.41
cv_udp-2.2-3.wlan17--1.0.23-A	125.062 Kbps	0 bps	0	13,509	0	0
cv_udp-2.2-3.wlan17--1.0.23-B	0 bps	6.821 Kbps	13,509	13,509	1,262	94.545
cv_udp-2.2-3.wlan3--1.0.24-A	77.769 Kbps	0 bps	0	19,489	0	0
cv_udp-2.2-3.wlan3--1.0.24-B	0 bps	7.075 Kbps	19,489	19,489	1,474	86.492
cv_udp-2.2-3.wlan8--1.0.25-A	69.655 Kbps	0 bps	0	19,092	0	0
cv_udp-2.2-3.wlan8--1.0.25-B	0 bps	14.544 Kbps	19,092	19,092	991	78.866
cv_udp-2.2-3.wlan13--1.0.26-A	75.417 Kbps	0 bps	0	21,054	0	0
cv_udp-2.2-3.wlan13--1.0.26-B	0 bps	19.716 Kbps	21,054	21,054	905	73.659
cv_udp-2.2-3.wlan18--1.0.27-A	71.457 Kbps	0 bps	0	20,321	0	0
cv_udp-2.2-3.wlan18--1.0.27-B	0 bps	8.28 Kbps	20,321	20,321	1,341	85.422
cv_udp-2.2-3.wlan4--1.0.28-A	76.292 Kbps	0 bps	0	17,852	0	0
cv_udp-2.2-3.wlan4--1.0.28-B	0 bps	9.434 Kbps	17,852	17,852	912	87.783
cv_udp-2.2-3.wlan9--1.0.29-A	53.213 Kbps	0 bps	0	21,018	0	0
cv_udp-2.2-3.wlan9--1.0.29-B	0 bps	10.22 Kbps	21,018	21,018	1,045	82.019
cv_udp-2.2-3.wlan14--1.0.30-A	74.012 Kbps	0 bps	0	16,140	0	0
cv_udp-2.2-3.wlan14--1.0.30-B	0 bps	9.858 Kbps	16,140	16,140	1,359	83.333
cv_udp-2.2-3.wlan19--1.0.31-A	65.245 Kbps	0 bps	0	16,937	0	0
cv_udp-2.2-3.wlan19--1.0.31-B	0 bps	11.422 Kbps	16,937	16,937	794	78.487

N 2.4Ghz Throughput (goodput) for each station.

[CSV Data for 2.4Ghz Throughput](#)

2.4Ghz Throughput



Max-Cx-Test: Snapshot N 2.4Ghz Download

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link- Rate	Rx-Link- Rate	Mode	Channel	Last CX- Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	160 bps	1.527 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	32	-33	4C:B1:CD:18:E8:E8	172.18.100.215	04:f0:21:4b:90:00
1.1.11 sta01001	167 bps	1.513 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	41	-34	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.12 sta01002	167 bps	1.509 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	53	-34	4C:B1:CD:18:E8:E8	172.18.101.171	04:f0:21:4b:9d:00
1.1.13 sta01003	167 bps	1.512 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	54	-33	4C:B1:CD:18:E8:E8	172.18.100.241	04:f0:21:4b:98:00
1.1.14 sta01004	167 bps	1.505 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	50	-33	4C:B1:CD:18:E8:E8	172.18.100.223	04:f0:21:4b:be:00
1.1.15 sta01005	167 bps	1.508 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	60	-32	4C:B1:CD:18:E8:E8	172.18.101.37	04:f0:21:4b:95:00
1.1.16 sta01006	199 bps	1.521 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	25	-34	4C:B1:CD:18:E8:E8	172.18.101.40	04:f0:21:4b:ba:00
1.1.17 sta01007	162 bps	1.531 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	33	-34	4C:B1:CD:18:E8:E8	172.18.100.228	04:f0:21:4b:89:00
1.1.18 sta01008	161 bps	1.531 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	31	-33	4C:B1:CD:18:E8:E8	172.18.100.243	04:f0:21:4b:9f:00
1.1.19 sta01009	162 bps	1.53 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	32	-33	4C:B1:CD:18:E8:E8	172.18.101.36	04:f0:21:4b:b2:00
1.1.20 sta01010	162 bps	1.524 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	32	-33	4C:B1:CD:18:E8:E8	172.18.100.242	04:f0:21:4b:a7:00
1.1.21 sta01011	162 bps	1.526 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	31	-34	4C:B1:CD:18:E8:E8	172.18.101.75	04:f0:21:4b:a2:00
1.1.22 sta01012	173 bps	1.483 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	33	-33	4C:B1:CD:18:E8:E8	172.18.101.100	04:f0:21:4b:b6:00
1.1.23 sta01013	174 bps	1.49 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	34	-34	4C:B1:CD:18:E8:E8	172.18.101.42	04:f0:21:4b:a4:00
1.1.24 sta01014	174 bps	1.482 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	34	-34	4C:B1:CD:18:E8:E8	172.18.100.225	04:f0:21:4b:a8:00
1.1.25 sta01015	174 bps	1.491 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	30	-34	4C:B1:CD:18:E8:E8	172.18.101.83	04:f0:21:4b:bf:00
1.1.26 sta01016	174 bps	1.48 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	37	-34	4C:B1:CD:18:E8:E8	172.18.101.30	04:f0:21:4b:ab:00
1.1.27 sta01017	174 bps	1.482 Mbps	12.5	180 Mbps	450 Mbps	802.11bgn- AC	6	27	-33	4C:B1:CD:18:E8:E8	172.18.100.237	04:f0:21:4b:85:00
1.1.28 sta01018	174 bps	1.483 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	25	-34	4C:B1:CD:18:E8:E8	172.18.101.182	04:f0:21:4b:bb:00
1.1.29 sta01019	174 bps	1.48 Mbps	0	180 Mbps	540 Mbps	802.11bgn- AC	6	43	-33	4C:B1:CD:18:E8:E8	172.18.100.239	04:f0:21:4b:b9:00
1.1.30 sta01020	174 bps	1.471 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	36	-33	4C:B1:CD:18:E8:E8	172.18.101.33	04:f0:21:4b:b7:00
1.1.31 sta01021	175 bps	1.475 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	33	-33	4C:B1:CD:18:E8:E8	172.18.100.231	04:f0:21:4b:a1:00

1.1.32 sta01022	175 bps	1.476 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	40	-33	4C:B1:CD:18:E8:E8	172.18.100.217	04:f0:21:4b:88:00
1.1.33 sta01023	175 bps	1.473 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	32	-33	4C:B1:CD:18:E8:E8	172.18.100.240	04:f0:21:4b:97:00
1.1.34 sta01024	175 bps	1.471 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	44	-35	4C:B1:CD:18:E8:E8	172.18.100.212	04:f0:21:4b:99:00
1.1.35 sta01025	175 bps	1.468 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	32	-34	4C:B1:CD:18:E8:E8	172.18.101.31	04:f0:21:4b:87:00
1.1.36 sta01026	207 bps	1.47 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	34	-34	4C:B1:CD:18:E8:E8	172.18.101.99	04:f0:21:4b:b4:00
1.1.37 sta01027	175 bps	1.468 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	27	-34	4C:B1:CD:18:E8:E8	172.18.101.20	04:f0:21:4b:9b:00
1.1.38 sta01028	175 bps	1.465 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	37	-34	4C:B1:CD:18:E8:E8	172.18.101.69	04:f0:21:4b:82:00
1.1.39 sta01029	175 bps	1.47 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	39	-34	4C:B1:CD:18:E8:E8	172.18.100.235	04:f0:21:4b:8b:00
1.1.40 sta01030	175 bps	1.469 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	28	-34	4C:B1:CD:18:E8:E8	172.18.101.58	04:f0:21:4b:b0:00
1.1.41 sta01031	172 bps	1.483 Mbps	0	180 Mbps	450 Mbps	802.11bgn- AC	6	24	-33	4C:B1:CD:18:E8:E8	172.18.101.80	04:f0:21:4b:ad:00

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	49.05 Mbps	2.65 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-1.sta01000--1.0.0-A	0 bps	2.058 Mbps	11	11	7	0
cv_udp-2.2-1.sta01000--1.0.0-B	2.058 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01001--1.0.1-A	0 bps	2.072 Mbps	10	10	7	0
cv_udp-2.2-1.sta01001--1.0.1-B	2.073 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01002--1.0.2-A	0 bps	2.07 Mbps	11	11	7	0
cv_udp-2.2-1.sta01002--1.0.2-B	2.07 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01003--1.0.3-A	0 bps	2.074 Mbps	12	12	8	0.017
cv_udp-2.2-1.sta01003--1.0.3-B	2.074 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01004--1.0.4-A	0 bps	2.063 Mbps	10	10	7	0
cv_udp-2.2-1.sta01004--1.0.4-B	2.064 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01005--1.0.5-A	0 bps	2.067 Mbps	10	10	7	0
cv_udp-2.2-1.sta01005--1.0.5-B	2.067 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01006--1.0.6-A	0 bps	2.059 Mbps	10	10	7	0
cv_udp-2.2-1.sta01006--1.0.6-B	2.059 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01007--1.0.7-A	0 bps	2.067 Mbps	11	11	6	0
cv_udp-2.2-1.sta01007--1.0.7-B	2.068 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01008--1.0.8-A	0 bps	2.07 Mbps	10	10	7	0
cv_udp-2.2-1.sta01008--1.0.8-B	2.07 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01009--1.0.9-A	0 bps	2.068 Mbps	10	10	7	0
cv_udp-2.2-1.sta01009--1.0.9-B	2.068 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01010--1.0.10-A	0 bps	2.063 Mbps	13	13	7	0
cv_udp-2.2-1.sta01010--1.0.10-B	2.063 Mbps	0 bps	0	13	0	0
cv_udp-2.2-1.sta01011--1.0.11-A	0 bps	2.063 Mbps	10	10	7	0
cv_udp-2.2-1.sta01011--1.0.11-B	2.063 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01012--1.0.12-A	0 bps	2.064 Mbps	10	10	7	0
cv_udp-2.2-1.sta01012--1.0.12-B	2.065 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01013--1.0.13-A	0 bps	2.076 Mbps	10	10	7	0
cv_udp-2.2-1.sta01013--1.0.13-B	2.076 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01014--1.0.14-A	0 bps	2.065 Mbps	10	10	7	0
cv_udp-2.2-1.sta01014--1.0.14-B	2.064 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01015--1.0.15-A	0 bps	2.076 Mbps	14	14	7	0
cv_udp-2.2-1.sta01015--1.0.15-B	2.077 Mbps	0 bps	0	14	0	0
cv_udp-2.2-1.sta01016--1.0.16-A	0 bps	2.063 Mbps	10	10	7	0
cv_udp-2.2-1.sta01016--1.0.16-B	2.063 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01017--1.0.17-A	0 bps	2.069 Mbps	11	11	8	0
cv_udp-2.2-1.sta01017--1.0.17-B	2.068 Mbps	0 bps	0	11	0	0

cv_udp-2.2-1.sta01018--1.0.18-A	0 bps	2.071 Mbps	11	11	7	0
cv_udp-2.2-1.sta01018--1.0.18-B	2.071 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01019--1.0.19-A	0 bps	2.076 Mbps	10	10	7	0
cv_udp-2.2-1.sta01019--1.0.19-B	2.076 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01020--1.0.20-A	0 bps	2.062 Mbps	11	11	8	0.017
cv_udp-2.2-1.sta01020--1.0.20-B	2.063 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01021--1.0.21-A	0 bps	2.069 Mbps	11	11	7	0
cv_udp-2.2-1.sta01021--1.0.21-B	2.069 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01022--1.0.22-A	0 bps	2.074 Mbps	10	10	7	0
cv_udp-2.2-1.sta01022--1.0.22-B	2.074 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01023--1.0.23-A	0 bps	2.073 Mbps	10	10	7	0
cv_udp-2.2-1.sta01023--1.0.23-B	2.073 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01024--1.0.24-A	0 bps	2.072 Mbps	9	9	6	0
cv_udp-2.2-1.sta01024--1.0.24-B	2.073 Mbps	0 bps	0	9	0	0
cv_udp-2.2-1.sta01025--1.0.25-A	0 bps	2.067 Mbps	10	10	7	0.008
cv_udp-2.2-1.sta01025--1.0.25-B	2.067 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01026--1.0.26-A	0 bps	2.069 Mbps	11	11	8	0
cv_udp-2.2-1.sta01026--1.0.26-B	2.069 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01027--1.0.27-A	0 bps	2.071 Mbps	10	10	7	0
cv_udp-2.2-1.sta01027--1.0.27-B	2.071 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01028--1.0.28-A	0 bps	2.066 Mbps	10	10	7	0
cv_udp-2.2-1.sta01028--1.0.28-B	2.067 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01029--1.0.29-A	0 bps	2.075 Mbps	10	10	7	0
cv_udp-2.2-1.sta01029--1.0.29-B	2.075 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01030--1.0.30-A	0 bps	2.071 Mbps	10	10	7	0
cv_udp-2.2-1.sta01030--1.0.30-B	2.071 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01031--1.0.31-A	0 bps	2.076 Mbps	10	10	7	0
cv_udp-2.2-1.sta01031--1.0.31-B	2.075 Mbps	0 bps	0	10	0	0

Max-Cx-Test: Snapshot N 2.4Ghz Upload

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link- Rate	Rx-Link- Rate	Mode	Channel	Last CX- Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	2.161 Mbps	2.69 Kbps	2.101	360 Mbps	11 Mbps	802.11bgn- AC	6	32	-26	4C:B1:CD:18:E8:E8	172.18.100.215	04:f0:21:4b:90:00
1.1.11 sta01001	1.23 Mbps	795.935 Kbps	1.759	360 Mbps	11 Mbps	802.11bgn- AC	6	41	-26	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.12 sta01002	1.227 Mbps	794.962 Kbps	2.25	360 Mbps	11 Mbps	802.11bgn- AC	6	53	-26	4C:B1:CD:18:E8:E8	172.18.101.171	04:f0:21:4b:9d:00
1.1.13 sta01003	1.222 Mbps	792.208 Kbps	2.255	360 Mbps	11 Mbps	802.11bgn- AC	6	54	-26	4C:B1:CD:18:E8:E8	172.18.100.241	04:f0:21:4b:98:00
1.1.14 sta01004	1.223 Mbps	788.315 Kbps	3.236	360 Mbps	11 Mbps	802.11bgn- AC	6	50	-26	4C:B1:CD:18:E8:E8	172.18.100.223	04:f0:21:4b:be:00
1.1.15 sta01005	1.222 Mbps	786.156 Kbps	2.322	360 Mbps	11 Mbps	802.11bgn- AC	6	60	-26	4C:B1:CD:18:E8:E8	172.18.101.37	04:f0:21:4b:95:00
1.1.16 sta01006	2.155 Mbps	2.695 Kbps	2.317	360 Mbps	11 Mbps	802.11bgn- AC	6	25	-26	4C:B1:CD:18:E8:E8	172.18.101.40	04:f0:21:4b:ba:00
1.1.17 sta01007	2.153 Mbps	2.681 Kbps	2.726	360 Mbps	540 Mbps	802.11bgn- AC	6	33	-26	4C:B1:CD:18:E8:E8	172.18.100.228	04:f0:21:4b:89:00
1.1.18 sta01008	2.146 Mbps	2.672 Kbps	2.343	360 Mbps	11 Mbps	802.11bgn- AC	6	31	-26	4C:B1:CD:18:E8:E8	172.18.100.243	04:f0:21:4b:9f:00
1.1.19 sta01009	2.156 Mbps	2.656 Kbps	2.365	432 Mbps	11 Mbps	802.11bgn- AC	6	32	-26	4C:B1:CD:18:E8:E8	172.18.101.36	04:f0:21:4b:b2:00
1.1.20 sta01010	2.155 Mbps	2.672 Kbps	2.408	364.5 Mbps	450 Mbps	802.11bgn- AC	6	32	-26	4C:B1:CD:18:E8:E8	172.18.100.242	04:f0:21:4b:a7:00
1.1.21 sta01011	2.158 Mbps	2.66 Kbps	2.265	360 Mbps	450 Mbps	802.11bgn- AC	6	31	-26	4C:B1:CD:18:E8:E8	172.18.101.75	04:f0:21:4b:a2:00
1.1.22 sta01012	2.15 Mbps	2.46 Kbps	2.435	360 Mbps	11 Mbps	802.11bgn- AC	6	33	-26	4C:B1:CD:18:E8:E8	172.18.101.100	04:f0:21:4b:b6:00
1.1.23 sta01013	2.161 Mbps	2.453 Kbps	2.211	360 Mbps	11 Mbps	802.11bgn- AC	6	34	-26	4C:B1:CD:18:E8:E8	172.18.101.42	04:f0:21:4b:a4:00
1.1.24	2.16	2.617		360	11	802.11bgn-						

sta01014	Mbps	Kbps	2.161	Mbps	Mbps	AC	6	34	-26	4C:B1:CD:18:E8:E8	172.18.100.225	04:f0:21:4b:a8:00
1.1.25 sta01015	2.161 Mbps	2.633 Kbps	2.301	360 Mbps	450 Mbps	802.11bgn- AC	6	30	-26	4C:B1:CD:18:E8:E8	172.18.101.83	04:f0:21:4b:bf:00
1.1.26 sta01016	2.147 Mbps	2.633 Kbps	2.346	360 Mbps	11 Mbps	802.11bgn- AC	6	37	-26	4C:B1:CD:18:E8:E8	172.18.101.30	04:f0:21:4b:ab:00
1.1.27 sta01017	2.163 Mbps	2.625 Kbps	2.5	360 Mbps	486 Mbps	802.11bgn- AC	6	27	-26	4C:B1:CD:18:E8:E8	172.18.100.237	04:f0:21:4b:85:00
1.1.28 sta01018	1.228 Mbps	748.322 Kbps	2.58	405 Mbps	11 Mbps	802.11bgn- AC	6	25	-26	4C:B1:CD:18:E8:E8	172.18.101.182	04:f0:21:4b:bb:00
1.1.29 sta01019	2.156 Mbps	2.676 Kbps	2.751	360 Mbps	11 Mbps	802.11bgn- AC	6	43	-26	4C:B1:CD:18:E8:E8	172.18.100.239	04:f0:21:4b:b9:00
1.1.30 sta01020	2.155 Mbps	2.614 Kbps	2.575	360 Mbps	450 Mbps	802.11bgn- AC	6	36	-26	4C:B1:CD:18:E8:E8	172.18.101.33	04:f0:21:4b:b7:00
1.1.31 sta01021	2.156 Mbps	2.679 Kbps	2.849	360 Mbps	450 Mbps	802.11bgn- AC	6	33	-26	4C:B1:CD:18:E8:E8	172.18.100.231	04:f0:21:4b:a1:00
1.1.32 sta01022	2.152 Mbps	2.583 Kbps	2.756	360 Mbps	11 Mbps	802.11bgn- AC	6	40	-26	4C:B1:CD:18:E8:E8	172.18.100.217	04:f0:21:4b:88:00
1.1.33 sta01023	2.152 Mbps	2.583 Kbps	2.196	360 Mbps	11 Mbps	802.11bgn- AC	6	32	-26	4C:B1:CD:18:E8:E8	172.18.100.240	04:f0:21:4b:97:00
1.1.34 sta01024	2.156 Mbps	2.658 Kbps	2.414	360 Mbps	450 Mbps	802.11bgn- AC	6	44	-26	4C:B1:CD:18:E8:E8	172.18.100.212	04:f0:21:4b:99:00
1.1.35 sta01025	2.152 Mbps	2.679 Kbps	2.56	360 Mbps	11 Mbps	802.11bgn- AC	6	32	-26	4C:B1:CD:18:E8:E8	172.18.101.31	04:f0:21:4b:87:00
1.1.36 sta01026	2.151 Mbps	2.589 Kbps	2.214	364.5 Mbps	450 Mbps	802.11bgn- AC	6	34	-26	4C:B1:CD:18:E8:E8	172.18.101.99	04:f0:21:4b:b4:00
1.1.37 sta01027	1.275 Mbps	667.772 Kbps	2.533	360 Mbps	486 Mbps	802.11bgn- AC	6	27	-26	4C:B1:CD:18:E8:E8	172.18.101.20	04:f0:21:4b:9b:00
1.1.38 sta01028	1.162 Mbps	772.502 Kbps	2.331	360 Mbps	11 Mbps	802.11bgn- AC	6	37	-26	4C:B1:CD:18:E8:E8	172.18.101.69	04:f0:21:4b:82:00
1.1.39 sta01029	1.168 Mbps	772.884 Kbps	2.364	360 Mbps	450 Mbps	802.11bgn- AC	6	39	-26	4C:B1:CD:18:E8:E8	172.18.100.235	04:f0:21:4b:8b:00
1.1.40 sta01030	1.162 Mbps	769.383 Kbps	2.361	405 Mbps	486 Mbps	802.11bgn- AC	6	28	-26	4C:B1:CD:18:E8:E8	172.18.101.58	04:f0:21:4b:b0:00
1.1.41 sta01031	1.185 Mbps	743.104 Kbps	2.011	432 Mbps	11 Mbps	802.11bgn- AC	6	24	-26	4C:B1:CD:18:E8:E8	172.18.101.80	04:f0:21:4b:ad:00

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	750 bps	67.745 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

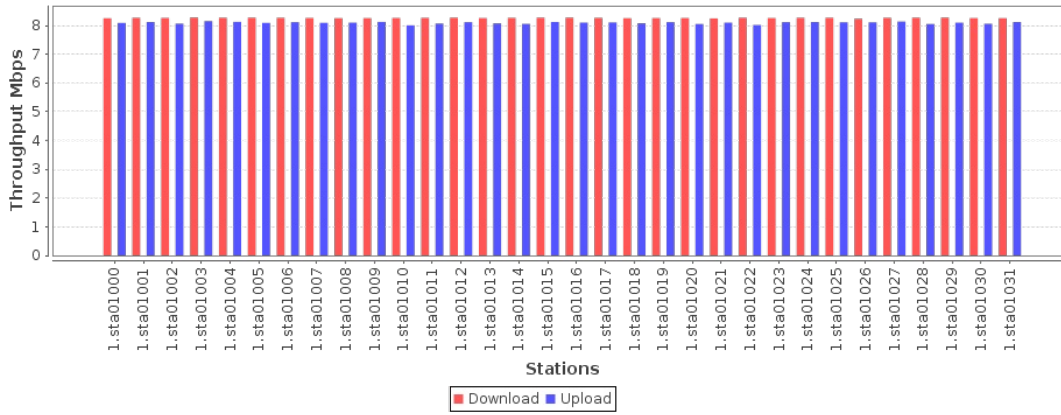
Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-1.sta01000--1.0.0-A	2.074 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01000--1.0.0-B	0 bps	2.062 Mbps	23	23	8	0
cv_udp-2.2-1.sta01001--1.0.1-A	2.07 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01001--1.0.1-B	0 bps	2.053 Mbps	24	24	8	0
cv_udp-2.2-1.sta01002--1.0.2-A	2.069 Mbps	0 bps	0	21	0	0
cv_udp-2.2-1.sta01002--1.0.2-B	0 bps	2.059 Mbps	21	21	9	0
cv_udp-2.2-1.sta01003--1.0.3-A	2.059 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01003--1.0.3-B	0 bps	2.052 Mbps	23	23	8	0
cv_udp-2.2-1.sta01004--1.0.4-A	2.063 Mbps	0 bps	0	25	0	0
cv_udp-2.2-1.sta01004--1.0.4-B	0 bps	2.053 Mbps	25	25	8	0.688
cv_udp-2.2-1.sta01005--1.0.5-A	2.061 Mbps	0 bps	0	27	0	0
cv_udp-2.2-1.sta01005--1.0.5-B	0 bps	2.051 Mbps	27	27	8	0.085
cv_udp-2.2-1.sta01006--1.0.6-A	2.068 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01006--1.0.6-B	0 bps	2.051 Mbps	24	24	8	0
cv_udp-2.2-1.sta01007--1.0.7-A	2.066 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01007--1.0.7-B	0 bps	2.054 Mbps	22	22	8	0
cv_udp-2.2-1.sta01008--1.0.8-A	2.06 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01008--1.0.8-B	0 bps	2.047 Mbps	23	23	8	0.596
cv_udp-2.2-1.sta01009--1.0.9-A	2.069 Mbps	0 bps	0	25	0	0
cv_udp-2.2-1.sta01009--1.0.9-B	0 bps	2.057 Mbps	25	25	8	0
cv_udp-2.2-1.sta01010--1.0.10-A	2.068 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01010--1.0.10-B	0 bps	2.058 Mbps	22	22	8	0

cv_udp-2.2-1.sta01011--1.0.11-A	2.07 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01011--1.0.11-B	0 bps	2.058 Mbps	23	23	8	0
cv_udp-2.2-1.sta01012--1.0.12-A	2.063 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01012--1.0.12-B	0 bps	2.048 Mbps	24	24	8	0
cv_udp-2.2-1.sta01013--1.0.13-A	2.073 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01013--1.0.13-B	0 bps	2.059 Mbps	22	22	8	0.355
cv_udp-2.2-1.sta01014--1.0.14-A	2.073 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01014--1.0.14-B	0 bps	2.059 Mbps	22	22	8	0.65
cv_udp-2.2-1.sta01015--1.0.15-A	2.074 Mbps	0 bps	0	25	0	0
cv_udp-2.2-1.sta01015--1.0.15-B	0 bps	2.063 Mbps	25	25	9	1.001
cv_udp-2.2-1.sta01016--1.0.16-A	2.06 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01016--1.0.16-B	0 bps	2.047 Mbps	24	24	9	0
cv_udp-2.2-1.sta01017--1.0.17-A	2.076 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01017--1.0.17-B	0 bps	2.061 Mbps	22	22	8	0.816
cv_udp-2.2-1.sta01018--1.0.18-A	2.07 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01018--1.0.18-B	0 bps	2.058 Mbps	23	23	9	0
cv_udp-2.2-1.sta01019--1.0.19-A	2.069 Mbps	0 bps	0	25	0	0
cv_udp-2.2-1.sta01019--1.0.19-B	0 bps	2.05 Mbps	25	25	8	0.491
cv_udp-2.2-1.sta01020--1.0.20-A	2.068 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01020--1.0.20-B	0 bps	2.055 Mbps	22	22	8	0.615
cv_udp-2.2-1.sta01021--1.0.21-A	2.068 Mbps	0 bps	0	20	0	0
cv_udp-2.2-1.sta01021--1.0.21-B	0 bps	2.05 Mbps	20	20	9	0.696
cv_udp-2.2-1.sta01022--1.0.22-A	2.065 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01022--1.0.22-B	0 bps	2.053 Mbps	22	22	9	0
cv_udp-2.2-1.sta01023--1.0.23-A	2.065 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01023--1.0.23-B	0 bps	2.05 Mbps	24	24	9	0.543
cv_udp-2.2-1.sta01024--1.0.24-A	2.069 Mbps	0 bps	0	21	0	0
cv_udp-2.2-1.sta01024--1.0.24-B	0 bps	2.057 Mbps	21	21	8	0.514
cv_udp-2.2-1.sta01025--1.0.25-A	2.065 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01025--1.0.25-B	0 bps	2.05 Mbps	22	22	9	0.701
cv_udp-2.2-1.sta01026--1.0.26-A	2.064 Mbps	0 bps	0	21	0	0
cv_udp-2.2-1.sta01026--1.0.26-B	0 bps	2.047 Mbps	21	21	8	0.597
cv_udp-2.2-1.sta01027--1.0.27-A	2.063 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01027--1.0.27-B	0 bps	2.045 Mbps	24	24	8	0
cv_udp-2.2-1.sta01028--1.0.28-A	2.062 Mbps	0 bps	0	25	0	0
cv_udp-2.2-1.sta01028--1.0.28-B	0 bps	2.045 Mbps	25	25	8	0.229
cv_udp-2.2-1.sta01029--1.0.29-A	2.073 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01029--1.0.29-B	0 bps	2.062 Mbps	23	23	8	0.538
cv_udp-2.2-1.sta01030--1.0.30-A	2.064 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01030--1.0.30-B	0 bps	2.047 Mbps	23	23	9	0.572
cv_udp-2.2-1.sta01031--1.0.31-A	2.064 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01031--1.0.31-B	0 bps	2.05 Mbps	23	23	8	0.461

AC 5Ghz Throughput (goodput) for each station.

[CSV Data for 5Ghz Throughput](#)

5Ghz Throughput



Max-Cx-Test: Snapshot AC 5Ghz Download

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link- Rate	Rx-Link- Rate	Mode	Channel	Last CX- Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	171 bps	5.916 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	34	-43	4C:B1:CD:18:E8:EC	172.18.101.85	04:f0:21:38:b2:f0
1.1.11 sta01001	171 bps	5.929 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	49	-43	4C:B1:CD:18:E8:EC	172.18.101.7	04:f0:21:38:be:f0
1.1.12 sta01002	172 bps	5.915 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	52	-43	4C:B1:CD:18:E8:EC	172.18.100.252	04:f0:21:38:81:f0
1.1.13 sta01003	172 bps	5.919 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	53	-43	4C:B1:CD:18:E8:EC	172.18.100.248	04:f0:21:38:a9:f0
1.1.14 sta01004	424 bps	5.921 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	52	-43	4C:B1:CD:18:E8:EC	172.18.101.29	04:f0:21:38:9b:f0
1.1.15 sta01005	524 bps	5.912 Mbps	0	520 Mbps	1.3 Gbps	802.11an- AC	36	98	-43	4C:B1:CD:18:E8:EC	172.18.101.6	04:f0:21:38:aa:f0
1.1.16 sta01006	524 bps	5.902 Mbps	0	520 Mbps	1.3 Gbps	802.11an- AC	36	138	-43	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.17 sta01007	173 bps	5.893 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	26	-43	4C:B1:CD:18:E8:EC	172.18.101.86	04:f0:21:38:a4:f0
1.1.18 sta01008	173 bps	5.885 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	26	-43	4C:B1:CD:18:E8:EC	172.18.101.11	04:f0:21:38:a5:f0
1.1.19 sta01009	173 bps	5.877 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	24	-43	4C:B1:CD:18:E8:EC	172.18.101.8	04:f0:21:38:9a:f0
1.1.20 sta01010	174 bps	5.875 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	23	-43	4C:B1:CD:18:E8:EC	172.18.100.254	04:f0:21:38:a7:f0
1.1.21 sta01011	173 bps	5.869 Mbps	0	390.2 Mbps	1.17 Gbps	802.11an- AC	36	28	-42	4C:B1:CD:18:E8:EC	172.18.101.52	04:f0:21:38:9d:f0
1.1.22 sta01012	174 bps	5.873 Mbps	0	390.2 Mbps	1.17 Gbps	802.11an- AC	36	25	-43	4C:B1:CD:18:E8:EC	172.18.101.183	04:f0:21:38:8d:f0
1.1.23 sta01013	174 bps	5.858 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	30	-43	4C:B1:CD:18:E8:EC	172.18.101.49	04:f0:21:38:8e:f0
1.1.24 sta01014	165 bps	5.998 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	22	-43	4C:B1:CD:18:E8:EC	172.18.101.61	04:f0:21:38:a0:f0
1.1.25 sta01015	174 bps	5.858 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	17	-43	4C:B1:CD:18:E8:EC	172.18.100.255	04:f0:21:38:b7:f0
1.1.26 sta01016	175 bps	5.851 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	30	-43	4C:B1:CD:18:E8:EC	172.18.101.47	04:f0:21:38:87:f0
1.1.27 sta01017	175 bps	5.843 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	28	-43	4C:B1:CD:18:E8:EC	172.18.101.57	04:f0:21:38:a6:f0
1.1.28 sta01018	176 bps	5.83 Mbps	0	390.2 Mbps	24 Mbps	802.11an- AC	36	24	-43	4C:B1:CD:18:E8:EC	172.18.101.51	04:f0:21:38:85:f0
1.1.29 sta01019	176 bps	5.824 Mbps	0	390.2 Mbps	24 Mbps	802.11an- AC	36	29	-43	4C:B1:CD:18:E8:EC	172.18.101.172	04:f0:21:38:83:f0
1.1.30 sta01020	175 bps	5.833 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	27	-43	4C:B1:CD:18:E8:EC	172.18.101.21	04:f0:21:38:b0:f0
1.1.31 sta01021	176 bps	5.835 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	22	-43	4C:B1:CD:18:E8:EC	172.18.101.53	04:f0:21:38:ab:f0

1.1.32 sta01022	176 bps	5.84 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	27	-43	4C:B1:CD:18:E8:EC	172.18.101.87	04:f0:21:38:86:f0
1.1.33 sta01023	176 bps	5.825 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	26	-44	4C:B1:CD:18:E8:EC	172.18.101.46	04:f0:21:38:82:f0
1.1.34 sta01024	175 bps	5.848 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	20	-43	4C:B1:CD:18:E8:EC	172.18.101.10	04:f0:21:38:ba:f0
1.1.35 sta01025	175 bps	5.84 Mbps	0	390.2 Mbps	24 Mbps	802.11an- AC	36	20	-42	4C:B1:CD:18:E8:EC	172.18.101.5	04:f0:21:38:84:f0
1.1.36 sta01026	175 bps	5.828 Mbps	0	390.2 Mbps	1.17 Gbps	802.11an- AC	36	23	-42	4C:B1:CD:18:E8:EC	172.18.101.13	04:f0:21:38:a3:f0
1.1.37 sta01027	175 bps	5.832 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	23	-43	4C:B1:CD:18:E8:EC	172.18.100.246	04:f0:21:38:af:f0
1.1.38 sta01028	176 bps	5.825 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	30	-43	4C:B1:CD:18:E8:EC	172.18.101.84	04:f0:21:38:bc:f0
1.1.39 sta01029	175 bps	5.844 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	29	-43	4C:B1:CD:18:E8:EC	172.18.101.9	04:f0:21:38:96:f0
1.1.40 sta01030	175 bps	5.837 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	28	-42	4C:B1:CD:18:E8:EC	172.18.101.15	04:f0:21:38:92:f0
1.1.41 sta01031	175 bps	5.836 Mbps	0	390.2 Mbps	1.3 Gbps	802.11an- AC	36	24	-43	4C:B1:CD:18:E8:EC	172.18.101.25	04:f0:21:38:b3:f0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	171.137 Mbps	2.555 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-1.sta01000--1.0.0-A	0 bps	8.264 Mbps	12	12	2	0
cv_udp-2.2-1.sta01000--1.0.0-B	8.263 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01001--1.0.1-A	0 bps	8.278 Mbps	14	14	1	0
cv_udp-2.2-1.sta01001--1.0.1-B	8.276 Mbps	0 bps	0	14	0	0
cv_udp-2.2-1.sta01002--1.0.2-A	0 bps	8.268 Mbps	12	12	2	0
cv_udp-2.2-1.sta01002--1.0.2-B	8.265 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01003--1.0.3-A	0 bps	8.273 Mbps	11	11	2	0
cv_udp-2.2-1.sta01003--1.0.3-B	8.277 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01004--1.0.4-A	0 bps	8.27 Mbps	11	11	2	0
cv_udp-2.2-1.sta01004--1.0.4-B	8.276 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01005--1.0.5-A	0 bps	8.276 Mbps	12	12	2	0
cv_udp-2.2-1.sta01005--1.0.5-B	8.276 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01006--1.0.6-A	0 bps	8.27 Mbps	13	13	2	0
cv_udp-2.2-1.sta01006--1.0.6-B	8.273 Mbps	0 bps	0	13	0	0
cv_udp-2.2-1.sta01007--1.0.7-A	0 bps	8.264 Mbps	12	12	2	0
cv_udp-2.2-1.sta01007--1.0.7-B	8.264 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01008--1.0.8-A	0 bps	8.252 Mbps	11	11	2	0
cv_udp-2.2-1.sta01008--1.0.8-B	8.26 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01009--1.0.9-A	0 bps	8.259 Mbps	15	15	2	0
cv_udp-2.2-1.sta01009--1.0.9-B	8.259 Mbps	0 bps	0	15	0	0
cv_udp-2.2-1.sta01010--1.0.10-A	0 bps	8.264 Mbps	12	12	2	0
cv_udp-2.2-1.sta01010--1.0.10-B	8.264 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01011--1.0.11-A	0 bps	8.266 Mbps	11	11	2	0
cv_udp-2.2-1.sta01011--1.0.11-B	8.266 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01012--1.0.12-A	0 bps	8.275 Mbps	11	11	2	0
cv_udp-2.2-1.sta01012--1.0.12-B	8.277 Mbps	0 bps	0	11	0	0
cv_udp-2.2-1.sta01013--1.0.13-A	0 bps	8.261 Mbps	10	10	2	0
cv_udp-2.2-1.sta01013--1.0.13-B	8.261 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01014--1.0.14-A	0 bps	8.264 Mbps	13	13	2	0
cv_udp-2.2-1.sta01014--1.0.14-B	8.263 Mbps	0 bps	0	13	0	0
cv_udp-2.2-1.sta01015--1.0.15-A	0 bps	8.274 Mbps	12	12	2	0
cv_udp-2.2-1.sta01015--1.0.15-B	8.273 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01016--1.0.16-A	0 bps	8.273 Mbps	13	13	2	0
cv_udp-2.2-1.sta01016--1.0.16-B	8.274 Mbps	0 bps	0	13	0	0
cv_udp-2.2-1.sta01017--1.0.17-A	0 bps	8.265 Mbps	17	17	1	0
cv_udp-2.2-1.sta01017--1.0.17-B	8.271 Mbps	0 bps	0	17	0	0
cv_udp-2.2-1.sta01018--1.0.18-A	0 bps	8.261 Mbps	13	13	2	0

cv_udp-2.2-1.sta01018--1.0.18-B	8.26 Mbps	0 bps	0	13	0	0
cv_udp-2.2-1.sta01019--1.0.19-A	0 bps	8.26 Mbps	13	13	2	0.013
cv_udp-2.2-1.sta01019--1.0.19-B	8.261 Mbps	0 bps	0	13	0	0
cv_udp-2.2-1.sta01020--1.0.20-A	0 bps	8.264 Mbps	12	12	2	0.002
cv_udp-2.2-1.sta01020--1.0.20-B	8.263 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01021--1.0.21-A	0 bps	8.258 Mbps	10	10	2	0
cv_udp-2.2-1.sta01021--1.0.21-B	8.26 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01022--1.0.22-A	0 bps	8.268 Mbps	12	12	2	0
cv_udp-2.2-1.sta01022--1.0.22-B	8.273 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01023--1.0.23-A	0 bps	8.26 Mbps	13	13	2	0
cv_udp-2.2-1.sta01023--1.0.23-B	8.263 Mbps	0 bps	0	13	0	0
cv_udp-2.2-1.sta01024--1.0.24-A	0 bps	8.274 Mbps	10	10	2	0
cv_udp-2.2-1.sta01024--1.0.24-B	8.272 Mbps	0 bps	0	10	0	0
cv_udp-2.2-1.sta01025--1.0.25-A	0 bps	8.27 Mbps	13	13	1	0
cv_udp-2.2-1.sta01025--1.0.25-B	8.271 Mbps	0 bps	0	13	0	0
cv_udp-2.2-1.sta01026--1.0.26-A	0 bps	8.26 Mbps	14	14	2	0
cv_udp-2.2-1.sta01026--1.0.26-B	8.259 Mbps	0 bps	0	14	0	0
cv_udp-2.2-1.sta01027--1.0.27-A	0 bps	8.27 Mbps	12	12	1	0
cv_udp-2.2-1.sta01027--1.0.27-B	8.268 Mbps	0 bps	0	12	0	0
cv_udp-2.2-1.sta01028--1.0.28-A	0 bps	8.274 Mbps	15	15	2	0
cv_udp-2.2-1.sta01028--1.0.28-B	8.275 Mbps	0 bps	0	15	0	0
cv_udp-2.2-1.sta01029--1.0.29-A	0 bps	8.273 Mbps	14	14	2	0
cv_udp-2.2-1.sta01029--1.0.29-B	8.274 Mbps	0 bps	0	14	0	0
cv_udp-2.2-1.sta01030--1.0.30-A	0 bps	8.271 Mbps	18	18	2	0
cv_udp-2.2-1.sta01030--1.0.30-B	8.271 Mbps	0 bps	0	18	0	0
cv_udp-2.2-1.sta01031--1.0.31-A	0 bps	8.269 Mbps	12	12	1	0
cv_udp-2.2-1.sta01031--1.0.31-B	8.27 Mbps	0 bps	0	12	0	0

Max-Cx-Test: Snapshot AC 5Ghz Upload

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link- Rate	Rx-Link- Rate	Mode	Channel	Last CX- Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	8.444 Mbps	2.742 Kbps	0.432	1300 Mbps	24 Mbps	802.11an- AC	36	34	-39	4C:B1:CD:18:E8:EC	172.18.101.85	04:f0:21:38:b2:f0
1.1.11 sta01001	8.485 Mbps	2.742 Kbps	0.625	1300 Mbps	24 Mbps	802.11an- AC	36	49	-39	4C:B1:CD:18:E8:EC	172.18.101.7	04:f0:21:38:be:f0
1.1.12 sta01002	8.417 Mbps	2.749 Kbps	0.584	1300 Mbps	24 Mbps	802.11an- AC	36	52	-39	4C:B1:CD:18:E8:EC	172.18.100.252	04:f0:21:38:81:f0
1.1.13 sta01003	8.512 Mbps	2.742 Kbps	0.422	1300 Mbps	24 Mbps	802.11an- AC	36	53	-39	4C:B1:CD:18:E8:EC	172.18.100.248	04:f0:21:38:a9:f0
1.1.14 sta01004	8.479 Mbps	2.757 Kbps	0.457	1300 Mbps	24 Mbps	802.11an- AC	36	52	-39	4C:B1:CD:18:E8:EC	172.18.101.29	04:f0:21:38:9b:f0
1.1.15 sta01005	8.436 Mbps	2.757 Kbps	0.53	1300 Mbps	24 Mbps	802.11an- AC	36	98	-39	4C:B1:CD:18:E8:EC	172.18.101.6	04:f0:21:38:aa:f0
1.1.16 sta01006	8.493 Mbps	2.772 Kbps	0.515	1404 Mbps	24 Mbps	802.11an- AC	36	138	-39	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.17 sta01007	8.433 Mbps	2.779 Kbps	0.644	1300 Mbps	24 Mbps	802.11an- AC	36	26	-39	4C:B1:CD:18:E8:EC	172.18.101.86	04:f0:21:38:a4:f0
1.1.18 sta01008	8.433 Mbps	2.764 Kbps	0.473	1404 Mbps	24 Mbps	802.11an- AC	36	26	-39	4C:B1:CD:18:E8:EC	172.18.101.11	04:f0:21:38:a5:f0
1.1.19 sta01009	8.486 Mbps	2.735 Kbps	0.607	1300 Mbps	24 Mbps	802.11an- AC	36	24	-39	4C:B1:CD:18:E8:EC	172.18.101.8	04:f0:21:38:9a:f0
1.1.20 sta01010	8.405 Mbps	2.764 Kbps	0.473	1300 Mbps	24 Mbps	802.11an- AC	36	23	-39	4C:B1:CD:18:E8:EC	172.18.100.254	04:f0:21:38:a7:f0
1.1.21 sta01011	8.448 Mbps	2.735 Kbps	0.553	1300 Mbps	24 Mbps	802.11an- AC	36	28	-39	4C:B1:CD:18:E8:EC	172.18.101.52	04:f0:21:38:9d:f0
1.1.22 sta01012	8.473 Mbps	2.669 Kbps	0.757	1300 Mbps	24 Mbps	802.11an- AC	36	25	-39	4C:B1:CD:18:E8:EC	172.18.101.183	04:f0:21:38:8d:f0
1.1.23 sta01013	8.434 Mbps	2.647 Kbps	0.621	1300 Mbps	24 Mbps	802.11an- AC	36	30	-39	4C:B1:CD:18:E8:EC	172.18.101.49	04:f0:21:38:8e:f0
1.1.24 sta01014	5.005 Mbps	2.846 Mbps	0.513	1300 Mbps	24 Mbps	802.11an- AC	36	22	-39	4C:B1:CD:18:E8:EC	172.18.101.61	04:f0:21:38:a0:f0

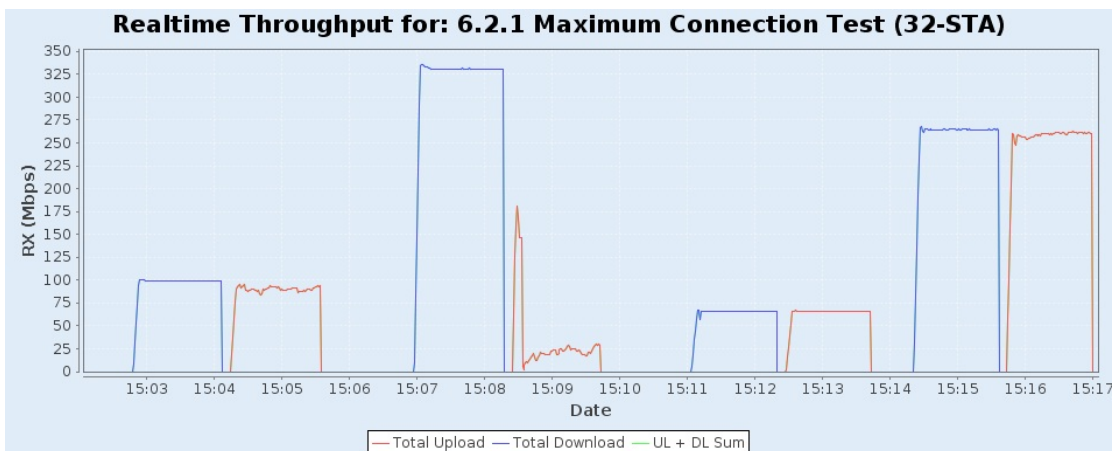
1.1.25 sta01015	8.48 Mbps	2.786 Kbps	0.432	1300 Mbps	24 Mbps	802.11an- AC	36	17	-39	4C:B1:CD:18:E8:EC	172.18.100.255	04:f0:21:38:b7:f0
1.1.26 sta01016	8.447 Mbps	2.788 Kbps	0.519	1404 Mbps	24 Mbps	802.11an- AC	36	30	-39	4C:B1:CD:18:E8:EC	172.18.101.47	04:f0:21:38:87:f0
1.1.27 sta01017	5.013 Mbps	2.804 Mbps	0.506	1300 Mbps	24 Mbps	802.11an- AC	36	28	-39	4C:B1:CD:18:E8:EC	172.18.101.57	04:f0:21:38:a6:f0
1.1.28 sta01018	4.987 Mbps	2.8 Mbps	0.379	1300 Mbps	24 Mbps	802.11an- AC	36	24	-39	4C:B1:CD:18:E8:EC	172.18.101.51	04:f0:21:38:85:f0
1.1.29 sta01019	5.035 Mbps	2.794 Mbps	0.453	1300 Mbps	24 Mbps	802.11an- AC	36	29	-39	4C:B1:CD:18:E8:EC	172.18.101.172	04:f0:21:38:83:f0
1.1.30 sta01020	4.931 Mbps	2.871 Mbps	0.718	1300 Mbps	24 Mbps	802.11an- AC	36	27	-39	4C:B1:CD:18:E8:EC	172.18.101.21	04:f0:21:38:b0:f0
1.1.31 sta01021	4.997 Mbps	2.794 Mbps	0.526	1300 Mbps	24 Mbps	802.11an- AC	36	22	-39	4C:B1:CD:18:E8:EC	172.18.101.53	04:f0:21:38:ab:f0
1.1.32 sta01022	4.951 Mbps	2.798 Mbps	0.824	1300 Mbps	24 Mbps	802.11an- AC	36	27	-39	4C:B1:CD:18:E8:EC	172.18.101.87	04:f0:21:38:86:f0
1.1.33 sta01023	4.99 Mbps	2.79 Mbps	0.707	1300 Mbps	24 Mbps	802.11an- AC	36	26	-38	4C:B1:CD:18:E8:EC	172.18.101.46	04:f0:21:38:82:f0
1.1.34 sta01024	4.779 Mbps	2.953 Mbps	0.641	1300 Mbps	24 Mbps	802.11an- AC	36	20	-38	4C:B1:CD:18:E8:EC	172.18.101.10	04:f0:21:38:ba:f0
1.1.35 sta01025	4.767 Mbps	2.95 Mbps	0.505	1300 Mbps	24 Mbps	802.11an- AC	36	20	-38	4C:B1:CD:18:E8:EC	172.18.101.5	04:f0:21:38:84:f0
1.1.36 sta01026	4.738 Mbps	2.942 Mbps	0.817	1300 Mbps	24 Mbps	802.11an- AC	36	23	-38	4C:B1:CD:18:E8:EC	172.18.101.13	04:f0:21:38:a3:f0
1.1.37 sta01027	4.773 Mbps	2.946 Mbps	0.713	1300 Mbps	24 Mbps	802.11an- AC	36	23	-38	4C:B1:CD:18:E8:EC	172.18.100.246	04:f0:21:38:af:f0
1.1.38 sta01028	4.721 Mbps	2.948 Mbps	0.719	1300 Mbps	24 Mbps	802.11an- AC	36	30	-38	4C:B1:CD:18:E8:EC	172.18.101.84	04:f0:21:38:bc:f0
1.1.39 sta01029	4.751 Mbps	2.924 Mbps	0.865	1300 Mbps	24 Mbps	802.11an- AC	36	29	-39	4C:B1:CD:18:E8:EC	172.18.101.9	04:f0:21:38:96:f0
1.1.40 sta01030	4.753 Mbps	2.924 Mbps	0.569	1300 Mbps	24 Mbps	802.11an- AC	36	28	-39	4C:B1:CD:18:E8:EC	172.18.101.15	04:f0:21:38:92:f0
1.1.41 sta01031	4.751 Mbps	2.923 Mbps	0.49	1300 Mbps	24 Mbps	802.11an- AC	36	24	-38	4C:B1:CD:18:E8:EC	172.18.101.25	04:f0:21:38:b3:f0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	3.966 Kbps	252.015 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-1.sta01000--1.0.0-A	8.114 Mbps	0 bps	0	17	0	0
cv_udp-2.2-1.sta01000--1.0.0-B	0 bps	8.112 Mbps	17	17	1	0
cv_udp-2.2-1.sta01001--1.0.1-A	8.162 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01001--1.0.1-B	0 bps	8.162 Mbps	23	23	1	0.445
cv_udp-2.2-1.sta01002--1.0.2-A	8.102 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01002--1.0.2-B	0 bps	8.103 Mbps	22	22	1	0
cv_udp-2.2-1.sta01003--1.0.3-A	8.164 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01003--1.0.3-B	0 bps	8.164 Mbps	24	24	1	0
cv_udp-2.2-1.sta01004--1.0.4-A	8.141 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01004--1.0.4-B	0 bps	8.141 Mbps	24	24	1	0
cv_udp-2.2-1.sta01005--1.0.5-A	8.098 Mbps	0 bps	0	20	0	0
cv_udp-2.2-1.sta01005--1.0.5-B	0 bps	8.1 Mbps	20	20	1	0
cv_udp-2.2-1.sta01006--1.0.6-A	8.158 Mbps	0 bps	0	21	0	0
cv_udp-2.2-1.sta01006--1.0.6-B	0 bps	8.158 Mbps	21	21	1	0
cv_udp-2.2-1.sta01007--1.0.7-A	8.096 Mbps	0 bps	0	21	0	0
cv_udp-2.2-1.sta01007--1.0.7-B	0 bps	8.095 Mbps	21	21	1	0
cv_udp-2.2-1.sta01008--1.0.8-A	8.088 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01008--1.0.8-B	0 bps	8.083 Mbps	24	24	1	0
cv_udp-2.2-1.sta01009--1.0.9-A	8.153 Mbps	0 bps	0	21	0	0
cv_udp-2.2-1.sta01009--1.0.9-B	0 bps	8.157 Mbps	21	21	1	0
cv_udp-2.2-1.sta01010--1.0.10-A	8.081 Mbps	0 bps	0	20	0	0
cv_udp-2.2-1.sta01010--1.0.10-B	0 bps	8.097 Mbps	20	20	3	0
cv_udp-2.2-1.sta01011--1.0.11-A	8.12 Mbps	0 bps	0	18	0	0
cv_udp-2.2-1.sta01011--1.0.11-B	0 bps	8.124 Mbps	18	18	1	0

cv_udp-2.2-1.sta01012--1.0.12-A	8.138 Mbps	0 bps	0	18	0	0
cv_udp-2.2-1.sta01012--1.0.12-B	0 bps	8.138 Mbps	18	18	1	0
cv_udp-2.2-1.sta01013--1.0.13-A	8.11 Mbps	0 bps	0	25	0	0
cv_udp-2.2-1.sta01013--1.0.13-B	0 bps	8.11 Mbps	25	25	1	0
cv_udp-2.2-1.sta01014--1.0.14-A	8.121 Mbps	0 bps	0	26	0	0
cv_udp-2.2-1.sta01014--1.0.14-B	0 bps	8.125 Mbps	26	26	1	0
cv_udp-2.2-1.sta01015--1.0.15-A	8.132 Mbps	0 bps	0	21	0	0
cv_udp-2.2-1.sta01015--1.0.15-B	0 bps	8.137 Mbps	21	21	1	0
cv_udp-2.2-1.sta01016--1.0.16-A	8.125 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01016--1.0.16-B	0 bps	8.119 Mbps	22	22	2	0
cv_udp-2.2-1.sta01017--1.0.17-A	8.111 Mbps	0 bps	0	19	0	0
cv_udp-2.2-1.sta01017--1.0.17-B	0 bps	8.111 Mbps	19	19	1	0
cv_udp-2.2-1.sta01018--1.0.18-A	8.097 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01018--1.0.18-B	0 bps	8.082 Mbps	24	24	1	0.164
cv_udp-2.2-1.sta01019--1.0.19-A	8.134 Mbps	0 bps	0	19	0	0
cv_udp-2.2-1.sta01019--1.0.19-B	0 bps	8.13 Mbps	19	19	2	0.178
cv_udp-2.2-1.sta01020--1.0.20-A	8.098 Mbps	0 bps	0	26	0	0
cv_udp-2.2-1.sta01020--1.0.20-B	0 bps	8.088 Mbps	26	26	2	0
cv_udp-2.2-1.sta01021--1.0.21-A	8.111 Mbps	0 bps	0	25	0	0
cv_udp-2.2-1.sta01021--1.0.21-B	0 bps	8.108 Mbps	25	25	1	0.062
cv_udp-2.2-1.sta01022--1.0.22-A	8.083 Mbps	0 bps	0	19	0	0
cv_udp-2.2-1.sta01022--1.0.22-B	0 bps	8.083 Mbps	19	19	2	0
cv_udp-2.2-1.sta01023--1.0.23-A	8.162 Mbps	0 bps	0	22	0	0
cv_udp-2.2-1.sta01023--1.0.23-B	0 bps	8.157 Mbps	22	22	1	0.03
cv_udp-2.2-1.sta01024--1.0.24-A	8.14 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01024--1.0.24-B	0 bps	8.133 Mbps	23	23	1	0
cv_udp-2.2-1.sta01025--1.0.25-A	8.121 Mbps	0 bps	0	20	0	0
cv_udp-2.2-1.sta01025--1.0.25-B	0 bps	8.122 Mbps	20	20	1	0
cv_udp-2.2-1.sta01026--1.0.26-A	8.104 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01026--1.0.26-B	0 bps	8.111 Mbps	23	23	1	0
cv_udp-2.2-1.sta01027--1.0.27-A	8.156 Mbps	0 bps	0	23	0	0
cv_udp-2.2-1.sta01027--1.0.27-B	0 bps	8.163 Mbps	23	23	1	0
cv_udp-2.2-1.sta01028--1.0.28-A	8.112 Mbps	0 bps	0	27	0	0
cv_udp-2.2-1.sta01028--1.0.28-B	0 bps	8.116 Mbps	27	27	1	0
cv_udp-2.2-1.sta01029--1.0.29-A	8.094 Mbps	0 bps	0	24	0	0
cv_udp-2.2-1.sta01029--1.0.29-B	0 bps	8.106 Mbps	24	24	1	0
cv_udp-2.2-1.sta01030--1.0.30-A	8.127 Mbps	0 bps	0	28	0	0
cv_udp-2.2-1.sta01030--1.0.30-B	0 bps	8.132 Mbps	28	28	1	0.489
cv_udp-2.2-1.sta01031--1.0.31-A	8.115 Mbps	0 bps	0	26	0	0
cv_udp-2.2-1.sta01031--1.0.31-B	0 bps	8.116 Mbps	26	26	1	0

Realtime Throughput for: 6.2.1 Maximum Connection Test (32-STA)



6.2.2 Maximum TCP Throughput Test

Summary

The Maximum throughput test intends to measure the maximum throughput performance of the DUT with a single station active. The test uses TCP connections and the attenuation is adjusted to emulate a distance of 2 meters. The 2.4Ghz station is configured for 20Mhz bandwidth and the 5Ghz station is configured for 80Mhz bandwidth. In both cases the station is configured for a maximum of two spatial streams.

Test Procedure

These steps are done for 2.4Ghz and then for 5Ghz bands.

1. Establish the LAN connection, create 1 station and allow the station to associate with the DUT.
2. Measure the downlink TCP throughput, using a test time of 120 seconds.
3. Measure the uplink TCP throughput, using a test time of 120 seconds.

Pass/Fail Criteria

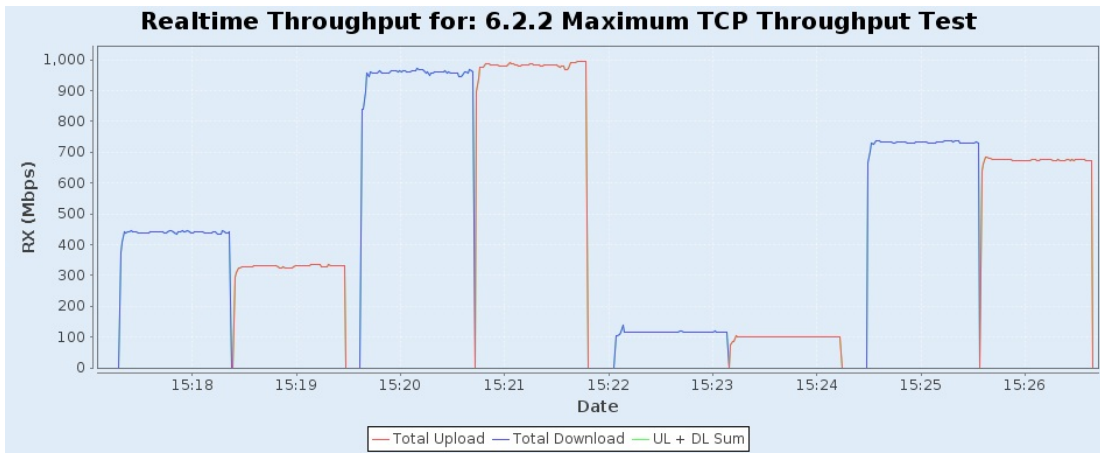
1. For N 2.4Ghz, upload rate must be at least 100Mbps
2. For N 2.4Ghz, download rate must be at least 100Mbps
3. For AC 5Ghz, upload rate must be at least 560Mbps
4. For AC 5Ghz, download rate must be at least 560Mbps
5. For AX 2.4Ghz, upload rate must be at least 200Mbps
6. For AX 2.4Ghz, download rate must be at least 200Mbps
7. For AX 5Ghz, upload rate must be at least 720Mbps
8. For AX 5Ghz, download rate must be at least 720Mbps

Candela Score

The Candela Score for Max Throughput Test is calculated as the percentage of the actual throughput vs the required throughput.

6.2.2 Maximum TCP Throughput Test Results

Type	Result	Notes
Configuration NOTE	INFO	In UL direction, 5Ghz attenuation will be decreased by: 3 because configured txpower: 20 is different from the TR398 spec's default of 23.
Total AX 2.4Ghz download throughput	PASS	Sum-total download: 440.40 Mbps Requires: 200.00 Mbps STA-RSSI: -29 Rx-Rate: 573.5M Tx-Rate: 573.5M
Total AX 2.4Ghz upload throughput	PASS	Sum-total upload: 330.62 Mbps Requires: 200.00 Mbps STA-RSSI: -30 Rx-Rate: 573.5M Tx-Rate: 573.5M
Total AX 5Ghz download throughput	PASS	Sum-total download: 960.15 Mbps Requires: 720.00 Mbps STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 1.201G
Total AX 5Ghz upload throughput	PASS	Sum-total upload: 981.87 Mbps Requires: 720.00 Mbps STA-RSSI: -40 Rx-Rate: 1.201G Tx-Rate: 1.201G
Total N 2.4Ghz download throughput	PASS	Sum-total download: 116.95 Mbps Requires: 100.00 Mbps STA-RSSI: -33 Rx-Rate: 144.4M Tx-Rate: 144.4M
Total N 2.4Ghz upload throughput	FAIL	Total N upload: 99.57 Mbps must be at least 100.00 Mbps on 2.4Ghz. STA-RSSI: -35 Rx-Rate: 144.4M Tx-Rate: 144.4M
Total AC 5Ghz download throughput	PASS	Sum-total download: 732.23 Mbps Requires: 560.00 Mbps STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M
Total AC 5Ghz upload throughput	PASS	Sum-total upload: 672.67 Mbps Requires: 560.00 Mbps STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M



6.2.3 Airtime Fairness Test

Summary

Airtime Fairness Test intends to verify the capability of Wi-Fi device to ensure the fairness of airtime usage. The tr398v2 spec is wrong in setup instructions, STA1 and STA2 should be in AC mode in this test. We have implemented it with STA1 and STA2 in AX mode.

Test Procedure

1. Establish the setup using default configuration.
2. Associate STA1 and STA2 with DUT. Establish the LAN connection and wait for 10 seconds.
3. Measure the downlink TCP throughput to each STA1 and STA2, using a test time of 120 seconds. Record this as STA1_throughput_1 and STA2_throughput_1.
4. Move STA2 to a medium distance to the DUT (equivalent to 38 dB@2.4GHz and 25 dB @5GHz attenuation between DUT and STA2). Wait for 10 seconds.
5. Measure the downlink TCP throughput to STA 1 and STA2, using a test time of 120 seconds. Record this as STA1_throughput_2 and STA2_throughput_2.
6. Disassociate STA2 with the DUT. Replace STA 2 by STA 3 and remove the attenuation. STA3 is configured to support only a 2.4 GHz connection. Establish the Wi-Fi connection between STA3 and DUT and wait for 10 seconds.
7. Measure the downlink TCP throughput to STA 1 and STA3, using a test time of 120 seconds. Record this as STA1_throughput_3 and STA3_throughput_3.
8. Replace STA 3 with a STA that uses only 802.11a. Set the DUT to operating frequency band of 5 GHz. Repeat Step 2 to 7.

Pass/Fail Criteria

1. For the test in 802.11n and 802.11ax 2.4 GHz frequency band:
 1. STA1_throughput_1 SHALL be within $(1\pm 5\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 2. STA2_throughput_1 SHALL be within $(1\pm 5\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 3. STA1_throughput_2 SHALL be within $(1\pm 15\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 4. STA1_throughput_3 SHALL be within $(1\pm 15\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
2. For the test in 802.11ac 5 GHz frequency band:
 1. STA1_throughput_1 SHALL be within $(1\pm 10\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 2. STA2_throughput_1 SHALL be within $(1\pm 10\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 3. STA1_throughput_2 SHALL be within $(1\pm 35\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 4. STA1_throughput_3 SHALL be within $(1\pm 35\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
3. For the test in 802.11ax 5 GHz frequency band:
 1. STA1_throughput_1 SHALL be within $(1\pm 20\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 2. STA2_throughput_1 SHALL be within $(1\pm 20\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 3. STA1_throughput_2 SHALL be within $(1\pm 35\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
 4. STA1_throughput_3 SHALL be within $(1\pm 35\%)*\text{Mean}(\text{STA2_throughput_1}, \text{STA1_throughput_1})$.
4. For the test in 802.11n 2.4 GHz frequency band:
 1. The summation of STA1_throughput_1 and STA2_throughput_1 SHALL be larger than 90 Mbps.
 2. The summation of STA1_throughput_2 and STA2_throughput_2 SHALL be larger than 80 Mbps.
 3. The summation of STA1_throughput_3 and STA3_throughput_3 SHALL be larger than 60 Mbps.

5. For the test in 802.11ac 5 GHz frequency band:
 1. The summation of STA1_throughput_1 and STA2_throughput_1 SHALL be larger than 570 Mbps.
 2. The summation of STA1_throughput_2 and STA2_throughput_2 SHALL be larger than 570 Mbps.
 3. The summation of STA1_throughput_3 and STA3_throughput_3 SHALL be larger than 256 Mbps.
6. For the test in 802.11ax 2.4 GHz frequency band:
 1. The summation of STA1_throughput_1 and STA2_throughput_1 SHALL be larger than 160 Mbps.
 2. The summation of STA1_throughput_2 and STA2_throughput_2 SHALL be larger than 108 Mbps.
 3. The summation of STA1_throughput_3 and STA3_throughput_3 SHALL be larger than 100 Mbps.
7. For the test in 802.11ac 5 GHz frequency band:
 1. The summation of STA1_throughput_1 and STA2_throughput_1 SHALL be larger than 610 Mbps.
 2. The summation of STA1_throughput_2 and STA2_throughput_2 SHALL be larger than 360 Mbps.
 3. The summation of STA1_throughput_3 and STA3_throughput_3 SHALL be larger than 295 Mbps.

Candela Score

The Candela Score for Airtime Fairness Test is calculated as the percentage sub-tests that passed the pass/fail criteria.

NOTE: Maximum NSS for STA1 and STA2 is set to: 2 instead of the test default AUTO.

NOTE: 2M attenuation has been adjusted by: 10. Default is 0.

6.2.3 Airtime Fairness Test Results

Type	Result	Notes
STA1-throughput-1 AX 2.4Ghz	FAIL	2.4Ghz: STA1_throughput more than 5% below the of average of STA2 + STA1 for subtest 1 Avg: 203.91 Mbps Min: 193.72 Mbps Max: 214.11 Mbps STA1-Throughput: 167.92 Mbps STA2-Throughput: 239.90 Mbps
STA2-throughput-1 AX 2.4Ghz	FAIL	2.4Ghz: STA2_throughput is more than 5% above the of average of STA2 + STA1 for subtest 1 Avg: 203.91 Mbps Min: 193.72 Mbps Max: 214.11 Mbps STA1-Throughput: 167.92 Mbps STA2-Throughput: 239.90 Mbps
STA1-throughput-2 AX 2.4Ghz	PASS	Avg: 203.91 Mbps Min: 173.33 Mbps Max: 234.50 Mbps STA1-Throughput-2: 187.12 Mbps
STA1-throughput-3 AX 2.4Ghz	FAIL	2.4Ghz: STA1_throughput-3 is more than +-15% below the average of STA2 + STA1 for subtest 3 Avg: 203.91 Mbps Min: 173.33 Mbps Max: 234.50 Mbps STA1-Throughput-3: 172.76 Mbps
AX 2.4Ghz STA1+2 Throughput Total	PASS	STA1: 167.92 Mbps STA2: 239.90 Mbps Sum: 407.83 Mbps: Meets requirement: 160.00 Mbps
AX 2.4Ghz STA1+2 Throughput-2 Total	PASS	STA1: 187.12 Mbps STA2: 75.24 Mbps Sum: 262.36 Mbps: Meets requirement: 108.00 Mbps
AX 2.4Ghz STA1+3 Throughput-3 Total 2.4Ghz	PASS	STA1: 172.76 Mbps STA3: 59.74 Mbps Sum: 232.50 Mbps: Meets requirement: 100.00 Mbps
STA1-throughput-1 AX 5Ghz	PASS	Avg: 469.73 Mbps Min: 375.78 Mbps Max: 563.67 Mbps STA1-Throughput: 551.51 Mbps STA2-Throughput: 387.94 Mbps
STA2-throughput-1 AX 5Ghz	PASS	Avg: 469.73 Mbps Min: 375.78 Mbps Max: 563.67 Mbps STA1-Throughput: 551.51 Mbps STA2-Throughput: 387.94 Mbps
STA1-throughput-2 AX 5Ghz	PASS	Avg: 469.73 Mbps Min: 305.32 Mbps Max: 634.13 Mbps STA1-Throughput-2: 574.72 Mbps
STA1-throughput-3 AX 5Ghz	PASS	Avg: 469.73 Mbps Min: 305.32 Mbps Max: 634.13 Mbps STA1-Throughput-2: 574.72 Mbps
AX 5Ghz STA1+2 Throughput Total	PASS	STA1: 551.51 Mbps STA2: 387.94 Mbps Sum: 939.45 Mbps: Meets requirement: 610.00 Mbps
AX 5Ghz STA1+2 Throughput-2 Total	PASS	STA1: 574.72 Mbps STA2: 242.99 Mbps Sum: 817.72 Mbps: Meets requirement: 360.00 Mbps
AX 5Ghz STA1+3 Throughput-3 Total 5Ghz	PASS	STA1: 473.24 Mbps STA3: 180.80 Mbps Sum: 654.04 Mbps: Meets requirement: 295.00 Mbps
STA1-throughput-1 N 2.4Ghz	PASS	Avg: 57.03 Mbps Min: 54.18 Mbps Max: 59.89 Mbps STA1-Throughput: 57.46 Mbps STA2-Throughput: 56.61 Mbps
STA2-throughput-1 N 2.4Ghz	PASS	Avg: 57.03 Mbps Min: 54.18 Mbps Max: 59.89 Mbps STA1-Throughput: 57.46 Mbps STA2-Throughput: 56.61 Mbps
STA1-throughput-2 N 2.4Ghz	PASS	Avg: 57.03 Mbps Min: 48.48 Mbps Max: 65.59 Mbps STA1-Throughput-2: 63.30 Mbps
STA1-throughput-3 N 2.4Ghz	FAIL	2.4Ghz: STA1_throughput-3 is more than +-15% above the of the average of STA2 + STA1 for subtest 3 Avg: 57.03 Mbps Min: 48.48 Mbps Max: 65.59 Mbps STA1-Throughput-3: 79.67 Mbps
N 2.4Ghz STA1+2 Throughput Total	PASS	STA1: 57.46 Mbps STA2: 56.61 Mbps Sum: 114.07 Mbps: Meets requirement: 90.00 Mbps
N 2.4Ghz STA1+2 Throughput-2 Total	PASS	STA1: 63.30 Mbps STA2: 41.22 Mbps Sum: 104.52 Mbps: Meets requirement: 80.00 Mbps
N 2.4Ghz STA1+3 Throughput-3 Total 2.4Ghz	PASS	STA1: 79.67 Mbps STA3: 3.00 Mbps Sum: 82.67 Mbps: Meets requirement: 60.00 Mbps
STA1-throughput-1 AC 5Ghz	PASS	Avg: 358.90 Mbps Min: 323.01 Mbps Max: 394.78 Mbps STA1-Throughput: 350.88 Mbps STA2-Throughput: 366.91 Mbps

STA2-throughput-1 AC 5Ghz	PASS	Avg: 358.90 Mbps Min: 323.01 Mbps Max: 394.78 Mbps STA1-Throughput: 350.88 Mbps STA2-Throughput: 366.91 Mbps
STA1-throughput-2 AC 5Ghz	PASS	Avg: 358.90 Mbps Min: 233.28 Mbps Max: 484.51 Mbps STA1-Throughput-2: 365.25 Mbps
STA1-throughput-3 AC 5Ghz	PASS	Avg: 358.90 Mbps Min: 233.28 Mbps Max: 484.51 Mbps STA1-Throughput-2: 365.25 Mbps
AC 5Ghz STA1+2 Throughput Total	PASS	STA1: 350.88 Mbps STA2: 366.91 Mbps Sum: 717.79 Mbps: Meets requirement: 570.00 Mbps
AC 5Ghz STA1+2 Throughput-2 Total	PASS	STA1: 365.25 Mbps STA2: 353.08 Mbps Sum: 718.33 Mbps: Meets requirement: 570.00 Mbps
AC 5Ghz STA1+3 Throughput-3 Total 5Ghz	PASS	STA1: 360.95 Mbps STA3: 59.26 Mbps Sum: 420.21 Mbps: Meets requirement: 265.00 Mbps

ATF: Run #1 Snapshot AX 2.4Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	523.406 Kbps	152.589 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	168	-40	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	814.029 Kbps	213.991 Mbps	0	573.5 Mbps	573.5 Mbps	802.11bgn-AX	6	130	-39	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	398.178 Mbps	1.169 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	167.841 Mbps	3,238	3,238	4,530	0
cv_tcp-2.2-2.wlan0--1.0.0-B	167.832 Mbps	0 bps	0	3,238	0	0
cv_tcp-2.2-2.wlan4--1.0.0-A	0 bps	239.936 Mbps	1,253	1,253	1,107	0
cv_tcp-2.2-2.wlan4--1.0.0-B	239.991 Mbps	0 bps	0	1,253	0	0

ATF: Run #2 Snapshot AX 2.4Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	593.041 Kbps	188.456 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	168	-40	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	638.912 Kbps	113.092 Mbps	0	351 Mbps	206.4 Mbps	802.11bgn-AX	6	130	-60	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	294.852 Mbps	989.7 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	187.227 Mbps	2,721	2,721	3,692	0
cv_tcp-2.2-2.wlan0--1.0.0-B	187.114 Mbps	0 bps	0	2,721	0	0
cv_tcp-2.2-2.wlan4--1.0.0-A	0 bps	75.221 Mbps	1,228	1,228	51	0.162
cv_tcp-2.2-2.wlan4--1.0.0-B	76.426 Mbps	0 bps	0	1,228	0	0

ATF: Run #3 Snapshot AX 2.4Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	645.096 Kbps	166.617 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	168	-39	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	177.332 Kbps	22.467 Mbps	0	0 Mbps	0 bps	802.11bgn-AX	0	130	0	null	0.0.0.0	a4:6b:b6:3d:61:4d
1.1.10 sta03500	466.715 Kbps	38.012 Mbps	0.005	135 Mbps	150 Mbps	802.11bgn	6	50	-39	4C:B1:CD:18:E8:E8	172.18.100.223	04:f0:21:4b:be:00

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	225.923 Mbps	1.054 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	172.68 Mbps	3,116	3,116	1,689	0
cv_tcp-2.2-2.wlan0--1.0.0-B	172.734 Mbps	0 bps	0	3,116	0	0
cv_tcp-2.2-2.wlan4--1.0.0-A	0 bps	75.36 Mbps	1,220	1,220	64	1.189
cv_tcp-2.2-2.wlan4--1.0.0-B	76.248 Mbps	0 bps	0	1,220	0	0
cv_tcp-2.2-1.sta03500--1.0.0-A	0 bps	59.683 Mbps	1,404	1,404	280	0.434
cv_tcp-2.2-1.sta03500--1.0.0-B	60.445 Mbps	0 bps	0	1,404	0	0

ATF: Run #1 Snapshot AX 5Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	1.257 Mbps	520.837 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	147	-42	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	854.167 Kbps	334.522 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	150	-42	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	931.74 Mbps	1.857 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	553.432 Mbps	1,271	1,271	1,433	0
cv_tcp-2.2-2.wlan0--1.0.0-B	552.138 Mbps	0 bps	0	1,271	0	0
cv_tcp-2.2-2.wlan4--1.0.0-A	0 bps	387.084 Mbps	504	504	124	0
cv_tcp-2.2-2.wlan4--1.0.0-B	389.321 Mbps	0 bps	0	504	0	0

ATF: Run #2 Snapshot AX 5Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	1.395 Mbps	575.124 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	147	-42	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	761.307 Kbps	272.681 Mbps	0	720.6 Mbps	864.8 Mbps	802.11an-AX	36	150	-55	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	844.63 Mbps	1.751 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	574.947 Mbps	957	957	702	0
cv_tcp-2.2-2.wlan0--1.0.0-B	572.25 Mbps	0 bps	0	957	0	0
cv_tcp-2.2-2.wlan4--1.0.0-A	0 bps	242.622 Mbps	415	415	230	0
cv_tcp-2.2-2.wlan4--1.0.0-B	242.954 Mbps	0 bps	0	415	0	0

ATF: Run #3 Snapshot AX 5Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	1.29 Mbps	500.54 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	147	-42	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan4	189.247 Kbps	62.566 Mbps	0	0 Mbps	0 bps	802.11an-AX	0	150	0	null	0.0.0.0	a4:6b:b6:3d:61:4d
1.1.10 sta03000	992.683 Kbps	114.083 Mbps	0.075	433.3 Mbps	433.3 Mbps	802.11an-AC	36	42	-43	4C:B1:CD:18:E8:EC	172.18.100.246	04:f0:21:38:af:f0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	678.234 Mbps	2.019 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	473.082 Mbps	1,159	1,159	483	0
cv_tcp-2.2-2.wlan0--1.0.0-B	472.923 Mbps	0 bps	0	1,159	0	0
cv_tcp-2.2-2.wlan4--1.0.0-A	0 bps	242.435 Mbps	439	439	282	0.05
cv_tcp-2.2-2.wlan4--1.0.0-B	242.8 Mbps	0 bps	0	439	0	0
cv_tcp-2.2-1.sta03000--1.0.0-A	0 bps	180.913 Mbps	648	648	319	0
cv_tcp-2.2-1.sta03000--1.0.0-B	181.195 Mbps	0 bps	0	648	0	0

ATF: Run #1 Snapshot N 2.4Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	548.741 Kbps	47.282 Mbps	0	144.4 Mbps	144.4 Mbps	802.11bgn	6	414	-41	4C:B1:CD:18:E8:E8	172.18.100.216	04:f0:21:4b:b3:00
1.1.11 sta02000	580.026 Kbps	46.755 Mbps	0	130 Mbps	144.4 Mbps	802.11bgn	6	224	-41	4C:B1:CD:18:E8:E8	172.18.101.184	04:f0:21:36:cd:74

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	102.145 Mbps	980.508 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	57.433 Mbps	6,055	6,055	2,183	0
cv_tcp-2.2-1.sta01500--1.0.0-B	57.491 Mbps	0 bps	0	6,055	0	0
cv_tcp-2.2-1.sta02000--1.0.0-A	0 bps	56.605 Mbps	2,061	2,061	977	0
cv_tcp-2.2-1.sta02000--1.0.0-B	56.786 Mbps	0 bps	0	2,061	0	0

ATF: Run #2 Snapshot N 2.4Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	907.036 Kbps	62.56 Mbps	0.009	144.4 Mbps	144.4 Mbps	802.11bgn	6	414	-39	4C:B1:CD:18:E8:E8	172.18.100.216	04:f0:21:4b:b3:00
1.1.11 sta02000	534.113 Kbps	45.745 Mbps	0.166	144.4 Mbps	130 Mbps	802.11bgn	6	224	-62	4C:B1:CD:18:E8:E8	172.18.101.184	04:f0:21:36:cd:74

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	108.801 Mbps	1.179 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	63.391 Mbps	5,807	5,807	208	0
cv_tcp-2.2-1.sta01500--1.0.0-B	63.319 Mbps	0 bps	0	5,807	0	0
cv_tcp-2.2-1.sta02000--1.0.0-A	0 bps	41.241 Mbps	2,681	2,681	361	0
cv_tcp-2.2-1.sta02000--1.0.0-B	40.781 Mbps	0 bps	0	2,681	0	0

ATF: Run #3 Snapshot N 2.4Ghz

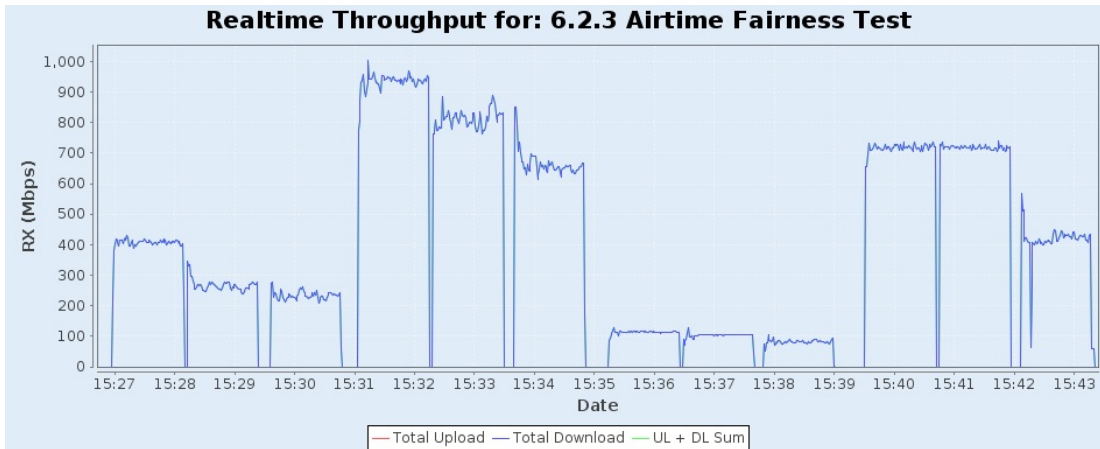
Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	959.915 Kbps	70.734 Mbps	0.005	144.4 Mbps	130 Mbps	802.11bgn	6	414	-40	4C:B1:CD:18:E8:E8	172.18.100.216	04:f0:21:4b:b3:00
1.1.11 sta02000	164.001 Kbps	15.002 Mbps	0.161	0 Mbps	0 bps	802.11bgn	0	224	0	null	0.0.0.0	04:f0:21:36:cd:74
1.1.12 sta02500	68.043 Kbps	1.757 Mbps	0.089	54 Mbps	54 Mbps	802.11bg	6	190	-41	4C:B1:CD:18:E8:E8	172.18.101.175	04:f0:21:36:e0:74

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	88.181 Mbps	969.901 Kbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

--	--	--	--	--	--

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01000--1.0.0-A	0 bps	361.363 Mbps	1,264	1,264	995	0
cv_tcp-2.2-1.sta01000--1.0.0-B	362.497 Mbps	0 bps	0	1,264	0	0
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	353.827 Mbps	1,153	1,153	1,090	0.212
cv_tcp-2.2-1.sta01500--1.0.0-B	354.675 Mbps	0 bps	0	1,153	0	0
cv_tcp-2.2-1.sta02000--1.0.0-A	0 bps	59.193 Mbps	1,139	1,139	62	0
cv_tcp-2.2-1.sta02000--1.0.0-B	60.026 Mbps	0 bps	0	1,139	0	0

Realtime Throughput for: 6.2.3 Airtime Fairness Test



6.2.4 Dual-Band Throughput Test

Summary

The Dual-band Throughput Test is intended to measure the throughput the DUT can support when concurrently connected to a station on both the 2.4 and 5 GHz bands, each operating with two spatial streams. The purpose of these additional test cases is to detect cross band interference of the DUT's transmitter on the receiver. The weak link is needed to ensure DUT and STA are transmitting at the highest power and causing the most potential interference when the receiver is more susceptible to noise (low SNR). The DUT will need to support at least 4 independent radio chains for this test case, two operating in the 2.4 GHz band and two operating in the 5 GHz band.

Test Procedure

These steps are done for N/AC and again for AX stations, for the 3 attenuation steps.

For the 2.4Ghz attenuation steps: 10, 32, 40. For the 5Ghz attenuation steps: 10, 25, 35.

1. Configure the system to emulate a 2-meter distance. This is the baseline '0' attenuation.
2. Set attenuation to 10db above 2m baseline.
3. Establish the LAN connection, create 1 on 2.4GHZ and one on 5Ghz and allow the stations to associate with the DUT.
4. Measure the downlink TCP throughput across both stations, using a test time of 120 seconds.
5. Measure the uplink TCP throughput across both stations, using a test time of 120 seconds.
6. Measure downlink on 2.4 station, uplink on 5Ghz station, using a test time of 120 seconds.
7. Measure uplink on 2.4 station, downlink on 5Ghz station, using a test time of 120 seconds.

Pass/Fail Criteria

Each attenuation step must pass a certain amount of traffic to pass the test (units are Mbps). More than one failure per attenuation step means test failed.

1. For N/AC, Attenuation 10/10: 2.4Ghz STA 100Mbps, 5Ghz STA 500Mbps
2. For N/AC, Attenuation 32/25: 2.4Ghz STA 85Mbps, 5Ghz STA 380Mbps
3. For N/AC, Attenuation 42/35: 2.4Ghz STA 45Mbps, 5Ghz STA 175Mbps
4. For AX, Attenuation 10/10: 2.4Ghz STA 195Mbps, 5Ghz STA 700Mbps
5. For AX, Attenuation 32/25: 2.4Ghz STA 130Mbps, 5Ghz STA 400Mbps

6. For AX, Attenuation 42/35: 2.4Ghz STA 75Mbps, 5Ghz STA 250Mbps

When setting the attenuation for upload direction, this test takes the calibrated zero-rssi value, the requested attenuation from 2m baseline, and the Attenuation Adjustment tunable into account. In addition, 5Ghz tests request 23db txpower, and 20db txpower on 2.4. The attenuation will be adjusted if actual tx-power used is below (or above) this value. By default, LANforge will transmit at 20db power on both bands.

Candela Score

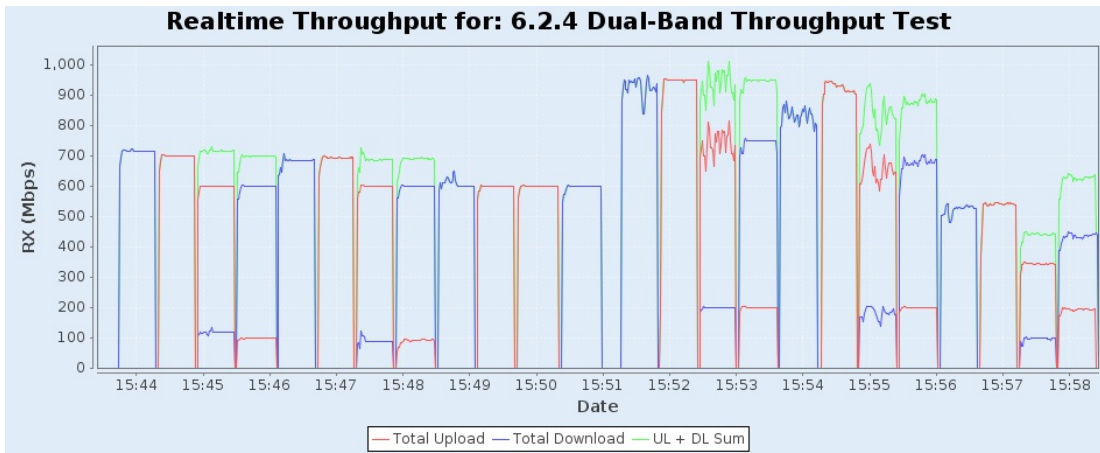
The Candela Score for Dual-Band Throughput Test is calculated as the percentage of passing sub-tests.

6.2.4 Dual-Band Throughput Test Results

Type	Result	Notes
Configuration NOTE	INFO	Traffic duration is set to: 30s, default is 120s
Configuration NOTE	INFO	In UL direction, 5Ghz attenuation will be decreased by: 3 because configured txpower: 20 is different from the TR398 spec's default of 23.
N/AC DUAL 2.4: Down 5Ghz: Down [10 10]	PASS	2.4Ghz Requires: 100.00 Mbps Reported: 116.66 Mbps STA-RSSI: -40 Rx-Rate: 144.4M Tx-Rate: 144.4M 5Ghz Requires: 500.00 Mbps Reported: 598.09 Mbps STA-RSSI: -47 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Up 5Ghz: Up [10 10]	FAIL	2.4Ghz Requires: 100.00 Mbps Reported: 98.87 Mbps STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M 5Ghz Requires: 500.00 Mbps Reported: 597.53 Mbps STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Down 5Ghz: Up [10 10]	PASS	2.4Ghz Requires: 100.00 Mbps Reported: 116.82 Mbps STA-RSSI: -39 Rx-Rate: 144.4M Tx-Rate: 144.4M 5Ghz Requires: 500.00 Mbps Reported: 598.13 Mbps STA-RSSI: -46 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Up 5Ghz: Down [10 10]	FAIL	2.4Ghz Requires: 100.00 Mbps Reported: 97.21 Mbps STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M 5Ghz Requires: 500.00 Mbps Reported: 598.06 Mbps STA-RSSI: -47 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Down 5Ghz: Down [32 25]	PASS	2.4Ghz Requires: 85.00 Mbps Reported: 87.49 Mbps STA-RSSI: -60 Rx-Rate: 115.6M Tx-Rate: 144.4M 5Ghz Requires: 380.00 Mbps Reported: 598.10 Mbps STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Up 5Ghz: Up [32 25]	PASS	2.4Ghz Requires: 85.00 Mbps Reported: 94.15 Mbps STA-RSSI: -59 Rx-Rate: 115.6M Tx-Rate: 144.4M 5Ghz Requires: 380.00 Mbps Reported: 592.23 Mbps STA-RSSI: -53 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Down 5Ghz: Up [32 25]	PASS	2.4Ghz Requires: 85.00 Mbps Reported: 88.54 Mbps STA-RSSI: -60 Rx-Rate: 115.6M Tx-Rate: 57.8M 5Ghz Requires: 380.00 Mbps Reported: 598.13 Mbps STA-RSSI: -54 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Up 5Ghz: Down [32 25]	PASS	2.4Ghz Requires: 85.00 Mbps Reported: 90.89 Mbps STA-RSSI: -60 Rx-Rate: 115.6M Tx-Rate: 144.4M 5Ghz Requires: 380.00 Mbps Reported: 598.09 Mbps STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Down 5Ghz: Down [42 35]	FAIL	2.4Ghz Requires: 45.00 Mbps Reported: 10.36 Mbps STA-RSSI: -66 Rx-Rate: 72.2M Tx-Rate: 104M 5Ghz Requires: 175.00 Mbps Reported: 598.12 Mbps STA-RSSI: -66 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Up 5Ghz: Up [42 35]	FAIL	2.4Ghz Requires: 45.00 Mbps Reported: 0 Mbps STA-RSSI: -64 Rx-Rate: 65M Tx-Rate: 26M 5Ghz Requires: 175.00 Mbps Reported: 598.11 Mbps STA-RSSI: -62 Rx-Rate: 866.7M Tx-Rate: 780M
N/AC DUAL 2.4: Down 5Ghz: Up [42 35]	FAIL	2.4Ghz Requires: 45.00 Mbps Reported: 0 Mbps STA-RSSI: -64 Rx-Rate: 65M Tx-Rate: 26M 5Ghz Requires: 175.00 Mbps Reported: 598.12 Mbps STA-RSSI: -64 Rx-Rate: 866.7M Tx-Rate: 866.7M
N/AC DUAL 2.4: Up 5Ghz: Down [42 35]	FAIL	2.4Ghz Requires: 45.00 Mbps Reported: 0 Mbps STA-RSSI: -65 Rx-Rate: 65M Tx-Rate: 26M 5Ghz Requires: 175.00 Mbps Reported: 598.09 Mbps STA-RSSI: -68 Rx-Rate: 866.7M Tx-Rate: 866.7M
		2.4Ghz Requires: 195.00 Mbps Reported: 199.40 Mbps

AX DUAL 2.4: Down 5Ghz: Down [10 10]	PASS	STA-RSSI: -40 Rx-Rate: 516M Tx-Rate: 573.5M 5Ghz Requires: 700.00 Mbps Reported: 729.85 Mbps STA-RSSI: -43 Rx-Rate: 960.7M Tx-Rate: 1.081G
AX DUAL 2.4: Up 5Ghz: Up [10 10]	PASS	2.4Ghz Requires: 195.00 Mbps Reported: 197.42 Mbps STA-RSSI: -39 Rx-Rate: 573.5M Tx-Rate: 573.5M 5Ghz Requires: 700.00 Mbps Reported: 743.85 Mbps STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 1.134G
AX DUAL 2.4: Down 5Ghz: Up [10 10]	PASS	2.4Ghz Requires: 195.00 Mbps Reported: 199.35 Mbps STA-RSSI: -40 Rx-Rate: 458.8M Tx-Rate: 573.5M 5Ghz Requires: 700.00 Mbps Reported: 743.27 Mbps STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 1.134G
AX DUAL 2.4: Up 5Ghz: Down [10 10]	PASS	2.4Ghz Requires: 195.00 Mbps Reported: 198.54 Mbps STA-RSSI: -40 Rx-Rate: 573.5M Tx-Rate: 573.5M 5Ghz Requires: 700.00 Mbps Reported: 747.64 Mbps STA-RSSI: -42 Rx-Rate: 1.201G Tx-Rate: 1.081G
AX DUAL 2.4: Down 5Ghz: Down [32 25]	PASS	2.4Ghz Requires: 130.00 Mbps Reported: 177.12 Mbps STA-RSSI: -57 Rx-Rate: 206.4M Tx-Rate: 458.8M 5Ghz Requires: 400.00 Mbps Reported: 651.94 Mbps STA-RSSI: -57 Rx-Rate: 864.8M Tx-Rate: 720.6M
AX DUAL 2.4: Up 5Ghz: Up [32 25]	PASS	2.4Ghz Requires: 130.00 Mbps Reported: 198.84 Mbps STA-RSSI: -57 Rx-Rate: 275.2M Tx-Rate: 458.8M 5Ghz Requires: 400.00 Mbps Reported: 722.30 Mbps STA-RSSI: -53 Rx-Rate: 864.8M Tx-Rate: 960.7M
AX DUAL 2.4: Down 5Ghz: Up [32 25]	PASS	2.4Ghz Requires: 130.00 Mbps Reported: 180.92 Mbps STA-RSSI: -57 Rx-Rate: 275.2M Tx-Rate: 458.8M 5Ghz Requires: 400.00 Mbps Reported: 658.52 Mbps STA-RSSI: -53 Rx-Rate: 960.7M Tx-Rate: 960.7M
AX DUAL 2.4: Up 5Ghz: Down [32 25]	PASS	2.4Ghz Requires: 130.00 Mbps Reported: 199.36 Mbps STA-RSSI: -58 Rx-Rate: 275.2M Tx-Rate: 458.8M 5Ghz Requires: 400.00 Mbps Reported: 679.85 Mbps STA-RSSI: -56 Rx-Rate: 960.7M Tx-Rate: 720.6M
AX DUAL 2.4: Down 5Ghz: Down [42 35]	PASS	2.4Ghz Requires: 75.00 Mbps Reported: 90.52 Mbps STA-RSSI: -66 Rx-Rate: 137.6M Tx-Rate: 299.4M 5Ghz Requires: 250.00 Mbps Reported: 433.61 Mbps STA-RSSI: -65 Rx-Rate: 576.4M Tx-Rate: 432.3M
AX DUAL 2.4: Up 5Ghz: Up [42 35]	PASS	2.4Ghz Requires: 75.00 Mbps Reported: 196.45 Mbps STA-RSSI: -67 Rx-Rate: 137.6M Tx-Rate: 299.4M 5Ghz Requires: 250.00 Mbps Reported: 341.59 Mbps STA-RSSI: -62 Rx-Rate: 720.6M Tx-Rate: 432.3M
AX DUAL 2.4: Down 5Ghz: Up [42 35]	PASS	2.4Ghz Requires: 75.00 Mbps Reported: 96.80 Mbps STA-RSSI: -66 Rx-Rate: 137.6M Tx-Rate: 299.4M 5Ghz Requires: 250.00 Mbps Reported: 337.60 Mbps STA-RSSI: -64 Rx-Rate: 626.9M Tx-Rate: 432.3M
AX DUAL 2.4: Up 5Ghz: Down [42 35]	PASS	2.4Ghz Requires: 75.00 Mbps Reported: 190.02 Mbps STA-RSSI: -67 Rx-Rate: 137.6M Tx-Rate: 299.4M 5Ghz Requires: 250.00 Mbps Reported: 435.01 Mbps STA-RSSI: -65 Rx-Rate: 576.4M Tx-Rate: 432.3M

Realtime Throughput for: 6.2.4 Dual-Band Throughput Test



6.2.5 Bidirectional UDP Throughput Test

Summary

The Bidirectional throughput test intends to measure the maximum throughput performance of the DUT with a single station active and both upload and download traffic running. The test uses TCP to determine maximum speed, then runs UDP traffic bi-directional at slightly under max TCP speed.

Test Procedure

These steps are done for 2.4Ghz and then for 5Ghz bands.

1. Establish the LAN connection, create 1 station and allow the station to associate with the DUT.
2. Measure the downlink TCP throughput, using a test time of 120 seconds.
3. Measure the uplink TCP throughput, using a test time of 120 seconds.
4. Create bi-directional UDP connection that uses 45% of TCP throughput, using a test time of 120 seconds.
5. Record packet loss in each direction.
6. Repeat these steps for attenuation: 2m + 10, 21, 42 for 2.4Ghz
7. Repeat these steps for attenuation: 2m + 10, 21, 35 for 5Ghz

Pass/Fail Criteria

1. For each of the test configuration, Packet Error Rate (PER) for each STA SHALL achieve less than .01%.

This is a bi-directional test, so we cannot tune attenuation different for upload vs download. So, we will add +3 to txpower for 5Ghz instead of setting both 2.4 and 5Ghz to the same value. This is done because tr398v2 requests 23db txpower on 5Ghz, and only 20db txpower on 2.4Ghz

Candela Score

The Candela Score for Bidirectional Throughput Test is calculated as the percentage of passing subtests.

6.2.5 Bidirectional UDP Throughput Test Results

Type	Result	Notes
AX 2.4Ghz Attenuation: 10	FAIL	Requested DL: 171.41 Mbps UL: 149.10 Mbps Actual DL: 162.16 Mbps UL: 143.71 Mbps DL Drop: 0.019% UL Drop: 0.016 STA-RSSI: -40 Rx-Rate: 516M Tx-Rate: 573.5M
AX 2.4Ghz Attenuation: 21	FAIL	Requested DL: 126.78 Mbps UL: 145.34 Mbps Actual DL: 120.21 Mbps UL: 138.80 Mbps DL Drop: 0% UL Drop: 0.041 STA-RSSI: -49 Rx-Rate: 344.1M Tx-Rate: 573.5M
AX 2.4Ghz Attenuation: 42	FAIL	Requested DL: 42.06 Mbps UL: 87.12 Mbps Actual DL: 39.86 Mbps UL: 82.66 Mbps DL Drop: 0.167% UL Drop: 0.026 STA-RSSI: -66 Rx-Rate: 137.6M Tx-Rate: 299.4M
		Requested DL: 429.48 Mbps UL: 445.84 Mbps Actual DL: 406.81 Mbps UL: 427.74 Mbps

AX 5Ghz Attenuation: 10	FAIL	DL Drop: 0.013% UL Drop: 0.025 STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 245M
AX 5Ghz Attenuation: 21	FAIL	Requested DL: 363.47 Mbps UL: 394.69 Mbps Actual DL: 344.57 Mbps UL: 379.82 Mbps DL Drop: 0% UL Drop: 0.022 STA-RSSI: -54 Rx-Rate: 1.081G Tx-Rate: 1.081G
AX 5Ghz Attenuation: 35	FAIL	Requested DL: 229.15 Mbps UL: 205.64 Mbps Actual DL: 217.19 Mbps UL: 196.13 Mbps DL Drop: 0.095% UL Drop: 0.020 STA-RSSI: -66 Rx-Rate: 576.4M Tx-Rate: 576.4M
N 2.4Ghz Attenuation: 10	FAIL	Requested DL: 97.60 Mbps UL: 98.28 Mbps Actual DL: 92.48 Mbps UL: 93.97 Mbps DL Drop: 0.000% UL Drop: 0.023 STA-RSSI: -40 Rx-Rate: 300M Tx-Rate: 360M
N 2.4Ghz Attenuation: 21	FAIL	Requested DL: 103.45 Mbps UL: 81.40 Mbps Actual DL: 98.19 Mbps UL: 78.39 Mbps DL Drop: 0.006% UL Drop: 0.015 STA-RSSI: -42 Rx-Rate: 270M Tx-Rate: 300M
N 2.4Ghz Attenuation: 42	FAIL	Requested DL: 26.44 Mbps UL: 32.93 Mbps Actual DL: 7.86 Mbps UL: 4.84 Mbps DL Drop: 68.612% UL Drop: 51.202 STA-RSSI: -67 Rx-Rate: 13M Tx-Rate: 26M
AC 5Ghz Attenuation: 10	FAIL	Requested DL: 364.50 Mbps UL: 458.38 Mbps Actual DL: 345.04 Mbps UL: 433.97 Mbps DL Drop: 0.017% UL Drop: 0.025 STA-RSSI: -43 Rx-Rate: 1.3G Tx-Rate: 1.3G
AC 5Ghz Attenuation: 21	FAIL	Requested DL: 438.16 Mbps UL: 302.06 Mbps Actual DL: 416.30 Mbps UL: 287.45 Mbps DL Drop: 0% UL Drop: 0.029 STA-RSSI: -56 Rx-Rate: 1.3G Tx-Rate: 975M
AC 5Ghz Attenuation: 35	FAIL	Requested DL: 284.01 Mbps UL: 273.07 Mbps Actual DL: 269.36 Mbps UL: 260.76 Mbps DL Drop: 0% UL Drop: 0.018 STA-RSSI: -64 Rx-Rate: 780M Tx-Rate: 780M

AX 2.4Ghz Attenuation: 10 Snapshot

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	196.374 Mbps	135.039 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	119	-40	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	126.199 Mbps	197.248 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-2.wlan0--1.0.0-A	140.799 Mbps	161.846 Mbps	3	4	0	0.019
cv_udp-2.2-2.wlan0--1.0.0-B	165.247 Mbps	143.744 Mbps	1	4	0	0.016

AX 2.4Ghz Attenuation: 21 Snapshot

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	201.469 Mbps	89.761 Mbps	0	573.5 Mbps	344.1 Mbps	802.11bgn-AX	6	119	-49	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	82.276 Mbps	211.375 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-2.wlan0--1.0.0-A	137.598 Mbps	120.031 Mbps	3	6	0	0
cv_udp-2.2-2.wlan0--1.0.0-B	121.401 Mbps	139.177 Mbps	3	6	0	0.041

AX 2.4Ghz Attenuation: 42 Snapshot

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
------	-----------	----------	-----------	--------------	--------------	------	---------	------------------	------------	----	----	-----

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	397.911 Mbps	336.641 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-1.sta01000--1.0.0-A	286.51 Mbps	415.706 Mbps	4	5	0	0
cv_udp-2.2-1.sta01000--1.0.0-B	418.317 Mbps	288.406 Mbps	1	5	0	0.029

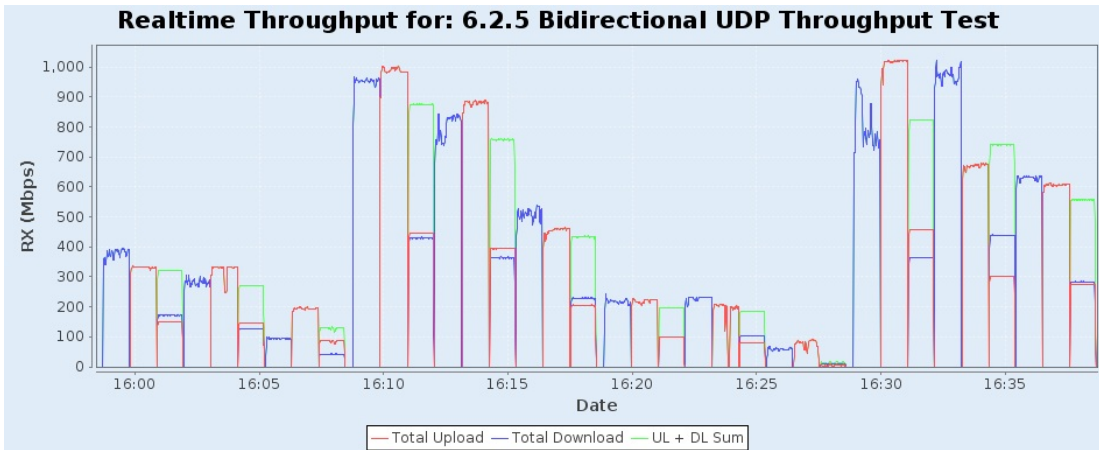
AC 5Ghz Attenuation: 35 Snapshot

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	405.316 Mbps	189.909 Mbps	0.77	780 Mbps	780 Mbps	802.11an-AC	36	53	-64	4C:B1:CD:18:E8:EC	172.18.101.9	04:f0:21:38:96:f0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	219.871 Mbps	360.608 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-1.sta01000--1.0.0-A	259.439 Mbps	269.869 Mbps	4	4	0	0
cv_udp-2.2-1.sta01000--1.0.0-B	272.542 Mbps	262.034 Mbps	0	4	0	0.018

Realtime Throughput for: 6.2.5 Bidirectional UDP Throughput Test



6.3.1 Range Versus Rate Test

Summary

Range versus rate test intends to measure the rate-control, baseband and RF chain performance of Wi-Fi device at different signal levels. The attenuation of signals due to range increase is achieved by adjusting the attenuator.

Test Procedure

These steps are done for 2.4Ghz and 5Ghz.

1. Configure the system to emulate a 2-meter distance. This is the baseline '0' attenuation.
2. Establish the LAN connection, create 1 station and allow the station to associate with the DUT.
3. Measure the downlink TCP throughput, using a test time of 120 seconds.
4. Measure the uplink TCP throughput, using a test time of 120 seconds.
5. For each of these attenuations on top of the baseline attenuation, repeat the steps above:
 - For 2.4Ghz: 0, 10, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63
 - For 5Ghz: 0, 10, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54

Pass/Fail Criteria

Each attenuation step must pass a certain amount of traffic to pass the test (units are Mbps).

1. For N 2.4Ghz, upload rate: 100, 100, 100, 100, 100, 100, 100, 95, 80, 75, 50, 31, 24, 17, 12, 7, 4
2. For N 2.4Ghz, download rate: 100, 100, 100, 100, 100, 100, 100, 95, 80, 75, 50, 45, 35, 25, 14, 9, 8
3. For AC 5Ghz, upload rate: 560, 530, 420, 400, 360, 300, 220, 150, 125, 100, 45, 25, 5, 1
4. For AC 5Ghz, download rate: 560, 530, 420, 400, 360, 300, 220, 150, 125, 100, 45, 25, 5, 1
5. For AX 2.4 Ghz, upload rate: 200, 200, 200, 200, 200, 180, 170, 150, 120, 90, 85, 65, 50, 25, 20, 10, 5
6. For AX 2.4 Ghz, download rate: 200, 200, 200, 200, 200, 180, 170, 150, 120, 90, 85, 65, 55, 30, 25, 15, 10
7. For AX 5 Ghz, upload rate: 720, 680, 540, 515, 465, 400, 300, 225, 175, 150, 50, 25, 5, 2
8. For AX 5 Ghz, download rate: 720, 680, 540, 515, 465, 400, 350, 300, 200, 175, 150, 50, 7, 2

When setting the attenuation for upload direction, this test takes the calibrated zero-rssi value, the requested attenuation from 2m baseline, and the Attenuation Adjustment tunable into account. In addition, 5Ghz tests request 23db txpower, and 20db txpower on 2.4. The attenuation will be adjusted if actual tx-power used is below (or above) this value. By default, LANforge will transmit at 20db power on both bands.

Candela Score

The Candela Score for Rate vs Range Test is calculated as the percentage of passing sub-tests. Since tests may be retried, each retry costs 1/3 of a percent penalty, up to a total of 5% for both 2.4Ghz and 5Ghz band tests.

6.3.1 Range Versus Rate Test Results

Type	Result	Notes
6.3.1 Assumptions	INFO	You may shift the attenuation by modifying the Attenuation Adjustment setting on the 'Advanced Configuration' screen.
Configuration NOTE	INFO	Traffic duration is set to: 30s, default is 120s
Configuration NOTE	INFO	In UL direction, 5Ghz attenuation will be decreased by: 3 because configured txpower: 20 is different from the TR398 spec's default of 23.
AC 5Ghz DL [0]	PASS	Requires: 560.00 Mbps Reported: 733.77 Mbps STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz UL [0]	PASS	Requires: 560.00 Mbps Reported: 676.24 Mbps STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL [10]	PASS	Requires: 530.00 Mbps Reported: 731.47 Mbps STA-RSSI: -43 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz UL [10]	PASS	Requires: 530.00 Mbps Reported: 676.18 Mbps STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL [21]	PASS	Requires: 420.00 Mbps Reported: 732.17 Mbps STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz UL [21]	PASS	Requires: 420.00 Mbps Reported: 664.39 Mbps STA-RSSI: -52 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL [24]	PASS	Requires: 400.00 Mbps Reported: 732.02 Mbps STA-RSSI: -58 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz UL [24]	PASS	Requires: 400.00 Mbps Reported: 667.72 Mbps STA-RSSI: -54 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL [27]	PASS	Requires: 360.00 Mbps Reported: 733.02 Mbps STA-RSSI: -62 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz UL [27]	PASS	Requires: 360.00 Mbps Reported: 676.67 Mbps STA-RSSI: -58 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL [30]	PASS	Requires: 300.00 Mbps Reported: 722.71 Mbps STA-RSSI: -65 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz UL [30]	PASS	Requires: 300.00 Mbps Reported: 533.80 Mbps STA-RSSI: -62 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL [33]	PASS	Requires: 220.00 Mbps Reported: 626.40 Mbps STA-RSSI: -67 Rx-Rate: 780M Tx-Rate: 866.7M
AC 5Ghz UL [33]	PASS	Requires: 220.00 Mbps Reported: 667.41 Mbps STA-RSSI: -65 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL [36]	PASS	Requires: 150.00 Mbps Reported: 528.98 Mbps STA-RSSI: -69 Rx-Rate: 650M Tx-Rate: 780M
AC 5Ghz UL [36]	PASS	Requires: 150.00 Mbps Reported: 667.82 Mbps STA-RSSI: -67 Rx-Rate: 780M Tx-Rate: 866.7M

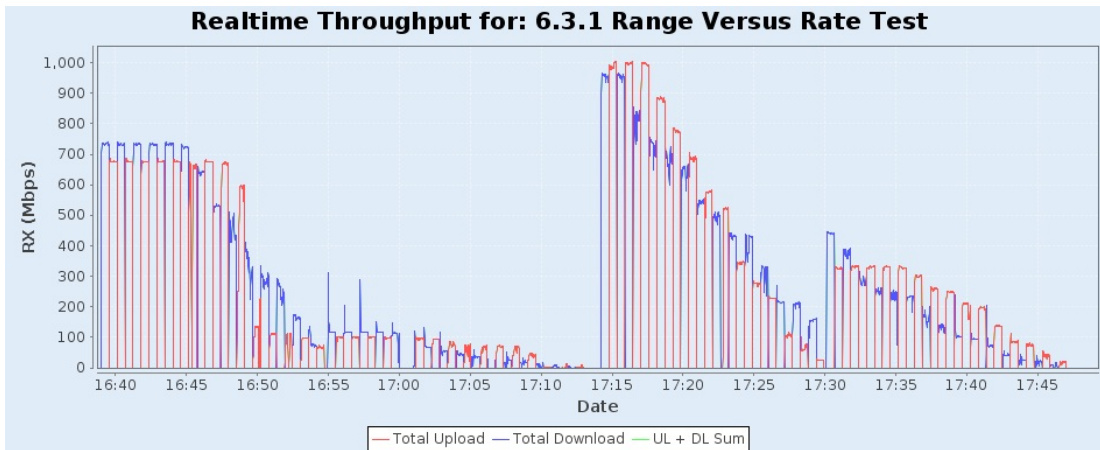
AC 5Ghz DL [39]	PASS	Requires: 125.00 Mbps Reported: 452.52 Mbps STA-RSSI: -72 Rx-Rate: 585.1M Tx-Rate: 175.5M
AC 5Ghz UL [39]	PASS	Requires: 125.00 Mbps Reported: 531.32 Mbps STA-RSSI: -70 Rx-Rate: 650M Tx-Rate: 780M
AC 5Ghz DL [42]	PASS	Requires: 100.00 Mbps Reported: 332.86 Mbps STA-RSSI: -73 Rx-Rate: 520M Tx-Rate: 13M
AC 5Ghz UL [42]	PASS	Requires: 100.00 Mbps Reported: 118.44 Mbps STA-RSSI: -73 Rx-Rate: 650M Tx-Rate: 360M
AC 5Ghz DL [45]	PASS	Requires: 45.00 Mbps Reported: 283.99 Mbps STA-RSSI: -77 Rx-Rate: 520M Tx-Rate: 26M
AC 5Ghz UL [45]	PASS	Requires: 45.00 Mbps Reported: 108.56 Mbps STA-RSSI: -74 Rx-Rate: 390M Tx-Rate: 144.4M
AC 5Ghz DL [48]	PASS	Requires: 25.00 Mbps Reported: 248.65 Mbps STA-RSSI: -79 Rx-Rate: 390M Tx-Rate: 26M
AC 5Ghz UL [48]	PASS	Requires: 25.00 Mbps Reported: 74.74 Mbps STA-RSSI: -75 Rx-Rate: 520M Tx-Rate: 130M
AC 5Ghz DL [51]	PASS	Requires: 5.00 Mbps Reported: 165.46 Mbps STA-RSSI: -81 Rx-Rate: 195.1M Tx-Rate: 14.4M
AC 5Ghz UL [51]	PASS	Requires: 5.00 Mbps Reported: 94.72 Mbps STA-RSSI: -79 Rx-Rate: 351M Tx-Rate: 130M
AC 5Ghz DL [54]	PASS	Requires: 1.00 Mbps Reported: 80.49 Mbps STA-RSSI: -85 Rx-Rate: 108M Tx-Rate: 13M
AC 5Ghz UL [54]	PASS	Requires: 1.00 Mbps Reported: 66.59 Mbps STA-RSSI: -81 Rx-Rate: 260M Tx-Rate: 86.7M
N 2.4Ghz DL [0]	PASS	Requires: 100.00 Mbps Reported: 118.39 Mbps STA-RSSI: -34 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz UL [0]	FAIL	Requires: 100.00 Mbps Reported: 98.00 Mbps STA-RSSI: -34 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz DL [10]	PASS	Requires: 100.00 Mbps Reported: 118.30 Mbps STA-RSSI: -39 Rx-Rate: 144.4M Tx-Rate: 115.6M
N 2.4Ghz UL [10]	FAIL	Requires: 100.00 Mbps Reported: 98.90 Mbps STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz DL [21]	PASS	Requires: 100.00 Mbps Reported: 118.16 Mbps STA-RSSI: -49 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz UL [21]	FAIL	Requires: 100.00 Mbps Reported: 99.57 Mbps STA-RSSI: -51 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz DL [24]	PASS	Requires: 100.00 Mbps Reported: 116.65 Mbps STA-RSSI: -52 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz UL [24]	FAIL	Requires: 100.00 Mbps Reported: 96.93 Mbps STA-RSSI: -53 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz DL [27]	PASS	Requires: 100.00 Mbps Reported: 104.56 Mbps STA-RSSI: -56 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz UL [27]	FAIL	Requires: 100.00 Mbps Reported: 0 Mbps STA-RSSI: -52 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz DL [30]	FAIL	Requires: 100.00 Mbps Reported: 17.41 Mbps STA-RSSI: -58 Rx-Rate: 130M Tx-Rate: 130M
N 2.4Ghz UL [30]	FAIL	Requires: 100.00 Mbps Reported: 96.04 Mbps STA-RSSI: -58 Rx-Rate: 130M Tx-Rate: 144.4M
N 2.4Ghz DL [33]	FAIL	Requires: 100.00 Mbps Reported: 69.46 Mbps STA-RSSI: -60 Rx-Rate: 104M Tx-Rate: 117M
N 2.4Ghz UL [33]	FAIL	Requires: 100.00 Mbps Reported: 91.33 Mbps STA-RSSI: -62 Rx-Rate: 72.2M Tx-Rate: 144.4M
N 2.4Ghz DL [36]	FAIL	Requires: 95.00 Mbps Reported: 55.91 Mbps STA-RSSI: -64 Rx-Rate: 72.2M Tx-Rate: 52M
N 2.4Ghz UL [36]	FAIL	Requires: 95.00 Mbps Reported: 74.25 Mbps STA-RSSI: -61 Rx-Rate: 26M Tx-Rate: 144.4M
N 2.4Ghz DL [39]	FAIL	Requires: 80.00 Mbps Reported: 43.74 Mbps STA-RSSI: -67 Rx-Rate: 57.8M Tx-Rate: 13M
N 2.4Ghz UL [39]	FAIL	Requires: 80.00 Mbps Reported: 51.44 Mbps STA-RSSI: -63 Rx-Rate: 52M Tx-Rate: 48M
N 2.4Ghz DL [42]	FAIL	Requires: 75.00 Mbps Reported: 35.28 Mbps STA-RSSI: -69 Rx-Rate: 58.5M Tx-Rate: 13M
N 2.4Ghz UL [42]	FAIL	Requires: 75.00 Mbps Reported: 59.41 Mbps STA-RSSI: -70 Rx-Rate: 43.3M Tx-Rate: 104M
		Requires: 50.00 Mbps Reported: 2.17 Mbps

N 2.4Ghz DL [45]	FAIL	STA-RSSI: -73 Rx-Rate: 43.3M Tx-Rate: 13M
N 2.4Ghz UL [45]	PASS	Requires: 50.00 Mbps Reported: 68.18 Mbps STA-RSSI: -71 Rx-Rate: 14.4M Tx-Rate: 115.6M
N 2.4Ghz DL [48]	FAIL	Requires: 45.00 Mbps Reported: 22.68 Mbps STA-RSSI: -74 Rx-Rate: 43.3M Tx-Rate: 13M
N 2.4Ghz UL [48]	PASS	Requires: 31.00 Mbps Reported: 58.63 Mbps STA-RSSI: -75 Rx-Rate: 28.9M Tx-Rate: 115.6M
N 2.4Ghz DL [51]	FAIL	Requires: 35.00 Mbps Reported: 16.46 Mbps STA-RSSI: -75 Rx-Rate: 28.9M Tx-Rate: 13M
N 2.4Ghz UL [51]	PASS	Requires: 24.00 Mbps Reported: 39.61 Mbps STA-RSSI: -77 Rx-Rate: 26M Tx-Rate: 86.7M
N 2.4Ghz DL [54]	FAIL	Requires: 25.00 Mbps Reported: 6.64 Mbps STA-RSSI: -78 Rx-Rate: 21.7M Tx-Rate: 6.5M
N 2.4Ghz UL [54]	FAIL	Requires: 17.00 Mbps Reported: 1.76 Mbps STA-RSSI: -77 Rx-Rate: 1M Tx-Rate: 6.5M
N 2.4Ghz DL [57]	FAIL	Requires: 14.00 Mbps Reported: 4.39 Mbps STA-RSSI: -81 Rx-Rate: 14.4M Tx-Rate: 13M
N 2.4Ghz UL [57]	FAIL	Requires: 12.00 Mbps Reported: 1.99 Mbps STA-RSSI: -79 Rx-Rate: 2M Tx-Rate: 26M
N 2.4Ghz DL [60]	FAIL	Requires: 9.00 Mbps Reported: 1.18 Mbps STA-RSSI: -83 Rx-Rate: 7.2M Tx-Rate: 13M
N 2.4Ghz UL [60]	FAIL	Requires: 7.00 Mbps Reported: 2.50 Mbps STA-RSSI: -82 Rx-Rate: 1M Tx-Rate: 6.5M
N 2.4Ghz DL [63]	FAIL	Requires: 8.00 Mbps Reported: 0 Mbps STA-RSSI: 0 Rx-Rate: 0bps Tx-Rate: 0bps
N 2.4Ghz UL [63]	FAIL	Requires: 4.00 Mbps Reported: 0 Mbps STA-RSSI: 0 Rx-Rate: 0bps Tx-Rate: 0bps
AX 5Ghz DL [0]	PASS	Requires: 720.00 Mbps Reported: 953.96 Mbps STA-RSSI: -40 Rx-Rate: 1.201G Tx-Rate: 1.201G
AX 5Ghz UL [0]	PASS	Requires: 720.00 Mbps Reported: 991.13 Mbps STA-RSSI: -40 Rx-Rate: 1.081G Tx-Rate: 1.201G
AX 5Ghz DL [10]	PASS	Requires: 680.00 Mbps Reported: 954.97 Mbps STA-RSSI: -42 Rx-Rate: 1.201G Tx-Rate: 1.201G
AX 5Ghz UL [10]	PASS	Requires: 680.00 Mbps Reported: 987.53 Mbps STA-RSSI: -41 Rx-Rate: 1.081G Tx-Rate: 1.201G
AX 5Ghz DL [21]	PASS	Requires: 540.00 Mbps Reported: 811.71 Mbps STA-RSSI: -54 Rx-Rate: 1.081G Tx-Rate: 1.201G
AX 5Ghz UL [21]	PASS	Requires: 540.00 Mbps Reported: 989.87 Mbps STA-RSSI: -52 Rx-Rate: 1.201G Tx-Rate: 1.081G
AX 5Ghz DL [24]	PASS	Requires: 515.00 Mbps Reported: 723.60 Mbps STA-RSSI: -55 Rx-Rate: 864.8M Tx-Rate: 960.7M
AX 5Ghz UL [24]	PASS	Requires: 515.00 Mbps Reported: 878.86 Mbps STA-RSSI: -54 Rx-Rate: 1.081G Tx-Rate: 1.081G
AX 5Ghz DL [27]	PASS	Requires: 465.00 Mbps Reported: 673.62 Mbps STA-RSSI: -57 Rx-Rate: 864.8M Tx-Rate: 960.7M
AX 5Ghz UL [27]	PASS	Requires: 465.00 Mbps Reported: 775.83 Mbps STA-RSSI: -57 Rx-Rate: 960.7M Tx-Rate: 960.7M
AX 5Ghz DL [30]	PASS	Requires: 400.00 Mbps Reported: 639.66 Mbps STA-RSSI: -60 Rx-Rate: 864.8M Tx-Rate: 720.6M
AX 5Ghz UL [30]	PASS	Requires: 400.00 Mbps Reported: 685.40 Mbps STA-RSSI: -58 Rx-Rate: 864.8M Tx-Rate: 864.8M
AX 5Ghz DL [33]	PASS	Requires: 350.00 Mbps Reported: 541.50 Mbps STA-RSSI: -62 Rx-Rate: 720.6M Tx-Rate: 626.9M
AX 5Ghz UL [33]	PASS	Requires: 300.00 Mbps Reported: 576.08 Mbps STA-RSSI: -61 Rx-Rate: 720.6M Tx-Rate: 720.6M
AX 5Ghz DL [36]	PASS	Requires: 300.00 Mbps Reported: 493.13 Mbps STA-RSSI: -67 Rx-Rate: 576.4M Tx-Rate: 544.3M
AX 5Ghz UL [36]	PASS	Requires: 225.00 Mbps Reported: 386.47 Mbps STA-RSSI: -63 Rx-Rate: 720.6M Tx-Rate: 626.9M
AX 5Ghz DL [39]	PASS	Requires: 200.00 Mbps Reported: 430.31 Mbps STA-RSSI: -69 Rx-Rate: 576.4M Tx-Rate: 432.3M
AX 5Ghz UL [39]	PASS	Requires: 175.00 Mbps Reported: 337.81 Mbps STA-RSSI: -67 Rx-Rate: 626.9M Tx-Rate: 544.3M

AX 5Ghz DL [42]	PASS	Requires: 175.00 Mbps Reported: 411.98 Mbps STA-RSSI: -72 Rx-Rate: 576.4M Tx-Rate: 288.2M
AX 5Ghz UL [42]	PASS	Requires: 150.00 Mbps Reported: 275.46 Mbps STA-RSSI: -70 Rx-Rate: 576.4M Tx-Rate: 432.3M
AX 5Ghz DL [45]	PASS	Requires: 150.00 Mbps Reported: 310.24 Mbps STA-RSSI: -75 Rx-Rate: 432.3M Tx-Rate: 216.1M
AX 5Ghz UL [45]	PASS	Requires: 50.00 Mbps Reported: 227.19 Mbps STA-RSSI: -71 Rx-Rate: 432.3M Tx-Rate: 288.2M
AX 5Ghz DL [48]	PASS	Requires: 50.00 Mbps Reported: 215.12 Mbps STA-RSSI: -77 Rx-Rate: 288.2M Tx-Rate: 136.1M
AX 5Ghz UL [48]	PASS	Requires: 25.00 Mbps Reported: 104.53 Mbps STA-RSSI: -74 Rx-Rate: 216.1M Tx-Rate: 144.1M
AX 5Ghz DL [51]	PASS	Requires: 7.00 Mbps Reported: 207.83 Mbps STA-RSSI: -79 Rx-Rate: 288.2M Tx-Rate: 72M
AX 5Ghz UL [51]	PASS	Requires: 5.00 Mbps Reported: 66.40 Mbps STA-RSSI: -77 Rx-Rate: 288.2M Tx-Rate: 122.4M
AX 5Ghz DL [54]	PASS	Requires: 2.00 Mbps Reported: 154.91 Mbps STA-RSSI: -81 Rx-Rate: 216.1M Tx-Rate: 25.8M
AX 5Ghz UL [54]	PASS	Requires: 2.00 Mbps Reported: 25.29 Mbps STA-RSSI: -82 Rx-Rate: 144.1M Tx-Rate: 34.4M
AX 2.4Ghz DL [0]	PASS	Requires: 200.00 Mbps Reported: 440.64 Mbps STA-RSSI: -30 Rx-Rate: 573.5M Tx-Rate: 573.5M
AX 2.4Ghz UL [0]	PASS	Requires: 200.00 Mbps Reported: 325.68 Mbps STA-RSSI: -30 Rx-Rate: 573.5M Tx-Rate: 573.5M
AX 2.4Ghz DL [10]	PASS	Requires: 200.00 Mbps Reported: 377.51 Mbps STA-RSSI: -40 Rx-Rate: 458.8M Tx-Rate: 573.5M
AX 2.4Ghz UL [10]	PASS	Requires: 200.00 Mbps Reported: 329.64 Mbps STA-RSSI: -36 Rx-Rate: 413M Tx-Rate: 573.5M
AX 2.4Ghz DL [21]	PASS	Requires: 200.00 Mbps Reported: 283.54 Mbps STA-RSSI: -48 Rx-Rate: 413M Tx-Rate: 573.5M
AX 2.4Ghz UL [21]	PASS	Requires: 200.00 Mbps Reported: 329.60 Mbps STA-RSSI: -49 Rx-Rate: 344.1M Tx-Rate: 573.5M
AX 2.4Ghz DL [24]	PASS	Requires: 200.00 Mbps Reported: 252.38 Mbps STA-RSSI: -50 Rx-Rate: 344.1M Tx-Rate: 573.5M
AX 2.4Ghz UL [24]	PASS	Requires: 200.00 Mbps Reported: 330.61 Mbps STA-RSSI: -51 Rx-Rate: 344.1M Tx-Rate: 573.5M
AX 2.4Ghz DL [27]	PASS	Requires: 200.00 Mbps Reported: 221.66 Mbps STA-RSSI: -53 Rx-Rate: 344.1M Tx-Rate: 573.5M
AX 2.4Ghz UL [27]	PASS	Requires: 200.00 Mbps Reported: 327.96 Mbps STA-RSSI: -53 Rx-Rate: 275.2M Tx-Rate: 573.5M
AX 2.4Ghz DL [30]	PASS	Requires: 180.00 Mbps Reported: 227.89 Mbps STA-RSSI: -56 Rx-Rate: 275.2M Tx-Rate: 516M
AX 2.4Ghz UL [30]	PASS	Requires: 180.00 Mbps Reported: 299.77 Mbps STA-RSSI: -55 Rx-Rate: 299.4M Tx-Rate: 516M
AX 2.4Ghz DL [33]	FAIL	Requires: 170.00 Mbps Reported: 167.00 Mbps STA-RSSI: -58 Rx-Rate: 275.2M Tx-Rate: 458.8M
AX 2.4Ghz UL [33]	PASS	Requires: 170.00 Mbps Reported: 259.41 Mbps STA-RSSI: -58 Rx-Rate: 275.2M Tx-Rate: 458.8M
AX 2.4Ghz DL [36]	FAIL	Requires: 150.00 Mbps Reported: 131.21 Mbps STA-RSSI: -59 Rx-Rate: 206.4M Tx-Rate: 413M
AX 2.4Ghz UL [36]	PASS	Requires: 150.00 Mbps Reported: 245.86 Mbps STA-RSSI: -61 Rx-Rate: 206.4M Tx-Rate: 413M
AX 2.4Ghz DL [39]	FAIL	Requires: 120.00 Mbps Reported: 103.63 Mbps STA-RSSI: -63 Rx-Rate: 137.6M Tx-Rate: 344.1M
AX 2.4Ghz UL [39]	PASS	Requires: 120.00 Mbps Reported: 198.02 Mbps STA-RSSI: -63 Rx-Rate: 137.6M Tx-Rate: 344.1M
AX 2.4Ghz DL [42]	PASS	Requires: 90.00 Mbps Reported: 93.83 Mbps STA-RSSI: -66 Rx-Rate: 137.6M Tx-Rate: 299.4M
AX 2.4Ghz UL [42]	PASS	Requires: 90.00 Mbps Reported: 193.91 Mbps STA-RSSI: -66 Rx-Rate: 103.2M Tx-Rate: 299.4M
AX 2.4Ghz DL [45]	FAIL	Requires: 85.00 Mbps Reported: 73.93 Mbps STA-RSSI: -68 Rx-Rate: 103.2M Tx-Rate: 206.4M
AX 2.4Ghz UL [45]	PASS	Requires: 85.00 Mbps Reported: 136.94 Mbps STA-RSSI: -68 Rx-Rate: 68.8M Tx-Rate: 206.4M

AX 2.4Ghz DL [48]	FAIL	Requires: 65.00 Mbps Reported: 41.70 Mbps STA-RSSI: -72 Rx-Rate: 68.8M Tx-Rate: 206.4M
AX 2.4Ghz UL [48]	PASS	Requires: 65.00 Mbps Reported: 85.36 Mbps STA-RSSI: -71 Rx-Rate: 34.4M Tx-Rate: 137.6M
AX 2.4Ghz DL [51]	FAIL	Requires: 55.00 Mbps Reported: 25.29 Mbps STA-RSSI: -74 Rx-Rate: 51.6M Tx-Rate: 137.6M
AX 2.4Ghz UL [51]	PASS	Requires: 50.00 Mbps Reported: 74.42 Mbps STA-RSSI: -73 Rx-Rate: 8.6M Tx-Rate: 137.6M
AX 2.4Ghz DL [54]	FAIL	Requires: 30.00 Mbps Reported: 18.55 Mbps STA-RSSI: -76 Rx-Rate: 34.4M Tx-Rate: 103.2M
AX 2.4Ghz UL [54]	PASS	Requires: 25.00 Mbps Reported: 40.39 Mbps STA-RSSI: -76 Rx-Rate: 17.2M Tx-Rate: 68.8M
AX 2.4Ghz DL [57]	FAIL	Requires: 25.00 Mbps Reported: 6.94 Mbps STA-RSSI: -78 Rx-Rate: 17.2M Tx-Rate: 34.4M
AX 2.4Ghz UL [57]	FAIL	Requires: 20.00 Mbps Reported: 15.32 Mbps STA-RSSI: -77 Rx-Rate: 8.6M Tx-Rate: 34.4M
AX 2.4Ghz DL [60]	FAIL	Requires: 15.00 Mbps Reported: 0 Mbps STA-RSSI: -80 Rx-Rate: 8.6M Tx-Rate: 34.4M
AX 2.4Ghz UL [60]	FAIL	Requires: 10.00 Mbps Reported: 0 Mbps STA-RSSI: -78 Rx-Rate: 8.6M Tx-Rate: 34.4M
AX 2.4Ghz DL [63]	FAIL	Requires: 10.00 Mbps Reported: 0 Mbps STA-RSSI: 0 Rx-Rate: 0bps Tx-Rate: 0bps
AX 2.4Ghz UL [63]	FAIL	Requires: 5.00 Mbps Reported: 0 Mbps STA-RSSI: 0 Rx-Rate: 0bps Tx-Rate: 0bps

Realtime Throughput for: 6.3.1 Range Versus Rate Test



6.3.2 Spatial Consistency Test

Summary

Spatial consistency test intends to verify the Wi-Fi signal consistency in spatial domain by testing throughput with DUT at different angles to the Station and at different emulated distance. The angles are changed with a programmable turn-table. The distance is emulated by adjusting attenuation.

Test Procedure

These steps are done for 2.4Ghz and 5Ghz.

1. Configure the system to emulate a 2-meter distance.
2. Establish the LAN connection, create 1 station and allow the station to associate with the DUT.
3. Measure the downlink TCP throughput, using a test time of 60 seconds.
4. Measure the uplink TCP throughput, using a test time of 60 seconds.

5. Change attenuation by adding these values to the baseline 2-meter attenuation:
 - For 2.4 Ghz band: 10, 38, 48
 - For 5 Ghz band: 10, 25, 35
6. Rotate the AP platform by 30 degrees and repeat steps above until the AP has been rotated a full 360 degrees.

Pass/Fail Criteria

A) For each rotation, each attenuation step must pass a certain amount of traffic to pass the test (units are Mbps).

1. For N 2.4Ghz, upload rate: 90, 70, 35
2. For N 2.4Ghz, download rate: 90, 70, 35
3. For AC 5Ghz, upload rate: 500, 400, 300
4. For AC 5Ghz, download rate: 500, 400, 300
5. For AX 2.4Ghz, upload rate: 150, 100, 35
6. For AX 2.4Ghz, download rate: 150, 100, 35
7. For AX 5Ghz, upload rate: 700, 400, 200
8. For AX 5Ghz, download rate: 700, 400, 200

B) For each rotation, the variation in rates must be within a specified range.

The variation at each specific attenuation is calculated as the difference between the minimum throughput value and the average throughput value, divided by the average throughput value over all rotations.

1. For 2.4Ghz, the range is 30%
2. For 5Ghz, the range is 40%

When setting the attenuation for upload direction, this test takes the calibrated zero-rssi value, the requested attenuation from 2m baseline, and the Attenuation Adjustment tunable into account. In addition, 5Ghz tests request 23db txpower, and 20db txpower on 2.4. The attenuation will be adjusted if actual tx-power used is below (or above) this value. By default, LANforge will transmit at 20db power on both bands.

Candela Score

The Candela Score for Spatial Test is calculated as the percentage of passing sub-tests. Since tests may be retried, each retry costs 1/3 of a percent penalty, up to a total of 5% for both 2.4Ghz and 5Ghz band tests.

6.3.2 Spatial Consistency Test Results

Type	Result	Notes
6.3.2 Assumptions	INFO	You may shift the attenuation by modifying the Attenuation Adjustment setting on the 'Advanced Configuration' screen.
Configuration NOTE	INFO	Traffic duration is set to: 20s, default is 60s
Configuration NOTE	INFO	In UL direction, 5Ghz attenuation will be decreased by: 3 because configured txpower: 20 is different from the TR398 spec's default of 23.
AX 5Ghz Avg DL Sig: 10	PASS	Avg download must be at least: 700Mbps, reported: 941.1
AX 5Ghz Minimum DL Sig: 10	PASS	Min download: 892.6 must be at least 60%: 564.7 of the avg: 941.1Mbps
AX 5Ghz Avg UL Sig: 10	PASS	Avg upload must be at least: 700Mbps, reported: 980.7
AX 5Ghz Minimum UL Sig: 10	PASS	Min upload: 892.6 must be at least 60%: 588.4 of the avg: 980.7Mbps
AX 5Ghz Avg DL Sig: 25	PASS	Avg download must be at least: 400Mbps, reported: 720.5
AX 5Ghz Minimum DL Sig: 25	PASS	Min download: 552.6 must be at least 60%: 432.3 of the avg: 720.5Mbps
AX 5Ghz Avg UL Sig: 25	PASS	Avg upload must be at least: 400Mbps, reported: 818.0
AX 5Ghz Minimum UL Sig: 25	PASS	Min upload: 552.6 must be at least 60%: 490.8 of the avg: 818.0Mbps
AX 5Ghz Avg DL Sig: 35	PASS	Avg download must be at least: 200Mbps, reported: 495.2
AX 5Ghz Minimum DL Sig: 35	PASS	Min download: 376.0 must be at least 60%: 297.1 of the avg: 495.2Mbps
AX 5Ghz Avg UL Sig: 35	PASS	Avg upload must be at least: 200Mbps, reported: 497.5
AX 5Ghz Minimum UL Sig: 35	PASS	Min upload: 376.0 must be at least 60%: 298.5 of the avg: 497.5Mbps
AX 2.4Ghz Avg DL Sig: 10	PASS	Avg download must be at least: 150Mbps, reported: 401.6
AX 2.4Ghz Minimum DL Sig: 10	PASS	Min download: 371.2 must be at least 70%: 281.1 of the avg: 401.6Mbps

AX 2.4Ghz Avg UL Sig: 10	PASS	Avg upload must be at least: 150Mbps, reported: 324.3
AX 2.4Ghz Minimum UL Sig: 10	PASS	Min upload: 302.0 must be at least 70%: 227.0 of the avg: 324.3 Mbps
AX 2.4Ghz Avg DL Sig: 38	PASS	Avg download must be at least: 100Mbps, reported: 127.1
AX 2.4Ghz Minimum DL Sig: 38	PASS	Min download: 99.8 must be at least 70%: 89.0 of the avg: 127.1Mbps
AX 2.4Ghz Avg UL Sig: 38	PASS	Avg upload must be at least: 100Mbps, reported: 210.4
AX 2.4Ghz Minimum UL Sig: 38	PASS	Min upload: 206.9 must be at least 70%: 147.2 of the avg: 210.4 Mbps
AX 2.4Ghz Avg DL Sig: 48	PASS	Avg download must be at least: 35Mbps, reported: 43.8
AX 2.4Ghz Minimum DL Sig: 48	FAIL	Min download: 28.7 must be at least 70%: 30.7 of the avg: 43.8Mbps
AX 2.4Ghz Avg UL Sig: 48	PASS	Avg upload must be at least: 35Mbps, reported: 99.5
AX 2.4Ghz Minimum UL Sig: 48	PASS	Min upload: 75.6 must be at least 70%: 69.6 of the avg: 99.5 Mbps
AC 5Ghz Avg DL Sig: 10	PASS	Avg download must be at least: 500Mbps, reported: 731.2
AC 5Ghz Minimum DL Sig: 10	PASS	Min download: 725.0 must be at least 60%: 438.7 of the avg: 731.2Mbps
AC 5Ghz Avg UL Sig: 10	PASS	Avg upload must be at least: 500Mbps, reported: 658.3
AC 5Ghz Minimum UL Sig: 10	PASS	Min upload: 725.0 must be at least 60%: 395.0 of the avg: 658.3Mbps
AC 5Ghz Avg DL Sig: 25	PASS	Avg download must be at least: 400Mbps, reported: 731.3
AC 5Ghz Minimum DL Sig: 25	PASS	Min download: 729.0 must be at least 60%: 438.8 of the avg: 731.3Mbps
AC 5Ghz Avg UL Sig: 25	PASS	Avg upload must be at least: 400Mbps, reported: 671.2
AC 5Ghz Minimum UL Sig: 25	PASS	Min upload: 729.0 must be at least 60%: 402.7 of the avg: 671.2Mbps
AC 5Ghz Avg DL Sig: 35	PASS	Avg download must be at least: 300Mbps, reported: 628.6
AC 5Ghz Minimum DL Sig: 35	PASS	Min download: 445.8 must be at least 60%: 377.2 of the avg: 628.6Mbps
AC 5Ghz Avg UL Sig: 35	PASS	Avg upload must be at least: 300Mbps, reported: 653.1
AC 5Ghz Minimum UL Sig: 35	PASS	Min upload: 445.8 must be at least 60%: 391.8 of the avg: 653.1Mbps
N 2.4Ghz Avg DL Sig: 10	PASS	Avg download must be at least: 90Mbps, reported: 115.2
N 2.4Ghz Minimum DL Sig: 10	PASS	Min download: 98.7 must be at least 70%: 80.6 of the avg: 115.2Mbps
N 2.4Ghz Avg UL Sig: 10	PASS	Avg upload must be at least: 90Mbps, reported: 94.6
N 2.4Ghz Minimum UL Sig: 10	FAIL	Min upload: 45.1 must be at least 70%: 66.2 of the avg: 94.6 Mbps
N 2.4Ghz Avg DL Sig: 38	FAIL	Avg download must be at least: 70Mbps, reported: 53.2
N 2.4Ghz Minimum DL Sig: 38	PASS	Min download: 39.5 must be at least 70%: 37.2 of the avg: 53.2Mbps
N 2.4Ghz Avg UL Sig: 38	FAIL	Avg upload must be at least: 70Mbps, reported: 67.5
N 2.4Ghz Minimum UL Sig: 38	PASS	Min upload: 49.9 must be at least 70%: 47.2 of the avg: 67.5 Mbps
N 2.4Ghz Avg DL Sig: 48	FAIL	Avg download must be at least: 35Mbps, reported: 20.9
N 2.4Ghz Minimum DL Sig: 48	PASS	Min download: 15.2 must be at least 70%: 14.6 of the avg: 20.9Mbps
N 2.4Ghz Avg UL Sig: 48	PASS	Avg upload must be at least: 35Mbps, reported: 45.1
N 2.4Ghz Minimum UL Sig: 48	FAIL	Min upload: 17.8 must be at least 70%: 31.6 of the avg: 45.1 Mbps

6.3.2 Spatial Consistency Test Details

Type	Result	Notes
		STA-RSSI: -40 Rx-Rate: 573.5M Tx-Rate: 573.5M

AX 2.4Ghz DL Sig: 10 Rot: 0	PASS	Throughput: 434.22 Mbps 3-sec avg: 436.42 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 0	PASS	STA-RSSI: -38 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 328.92 Mbps 3-sec avg: 331.88 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 30	PASS	STA-RSSI: -39 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 371.22 Mbps 3-sec avg: 389.64 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 30	PASS	STA-RSSI: -39 Rx-Rate: 458.8M Tx-Rate: 573.5M Throughput: 324.59 Mbps 3-sec avg: 328.19 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 60	PASS	STA-RSSI: -41 Rx-Rate: 458.8M Tx-Rate: 573.5M Throughput: 381.98 Mbps 3-sec avg: 372.82 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 60	PASS	STA-RSSI: -41 Rx-Rate: 458.8M Tx-Rate: 573.5M Throughput: 327.84 Mbps 3-sec avg: 327.37 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 90	PASS	STA-RSSI: -42 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 373.50 Mbps 3-sec avg: 365.55 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 90	PASS	STA-RSSI: -42 Rx-Rate: 458.8M Tx-Rate: 573.5M Throughput: 329.29 Mbps 3-sec avg: 326.94 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 120	PASS	STA-RSSI: -42 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 388.70 Mbps 3-sec avg: 377.14 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 120	PASS	STA-RSSI: -41 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 324.72 Mbps 3-sec avg: 330.78 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 150	PASS	STA-RSSI: -42 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 371.41 Mbps 3-sec avg: 330.70 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 150	PASS	STA-RSSI: -40 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 306.72 Mbps 3-sec avg: 252.94 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 180	PASS	STA-RSSI: -41 Rx-Rate: 573.5M Tx-Rate: 573.5M Throughput: 426.66 Mbps 3-sec avg: 431.01 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 180	PASS	STA-RSSI: -41 Rx-Rate: 413M Tx-Rate: 573.5M Throughput: 330.25 Mbps 3-sec avg: 329.38 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 210	PASS	STA-RSSI: -39 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 389.88 Mbps 3-sec avg: 389.68 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 210	PASS	STA-RSSI: -39 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 330.59 Mbps 3-sec avg: 332.51 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 240	PASS	STA-RSSI: -42 Rx-Rate: 573.5M Tx-Rate: 573.5M Throughput: 431.75 Mbps 3-sec avg: 432.78 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 240	PASS	STA-RSSI: -41 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 329.54 Mbps 3-sec avg: 328.43 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 270	PASS	STA-RSSI: -40 Rx-Rate: 516M Tx-Rate: 573.5M Throughput: 383.64 Mbps 3-sec avg: 384.01 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 270	PASS	STA-RSSI: -40 Rx-Rate: 413M Tx-Rate: 573.5M Throughput: 324.59 Mbps 3-sec avg: 333.74 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 10 Rot: 300	PASS	STA-RSSI: -38 Rx-Rate: 573.5M Tx-Rate: 573.5M Throughput: 432.42 Mbps 3-sec avg: 431.23 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 300	PASS	STA-RSSI: -38 Rx-Rate: 573.5M Tx-Rate: 573.5M Throughput: 332.04 Mbps 3-sec avg: 326.06 Mbps Requested-Avg: 150.00 Mbps
		STA-RSSI: -40 Rx-Rate: 573.5M Tx-Rate: 573.5M

AX 2.4Ghz DL Sig: 10 Rot: 330	PASS	Throughput: 433.76 Mbps 3-sec avg: 391.76 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz UL Sig: 10 Rot: 330	PASS	STA-RSSI: -37 Rx-Rate: 51.6M Tx-Rate: 573.5M Throughput: 301.96 Mbps 3-sec avg: 331.44 Mbps Requested-Avg: 150.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 0	PASS	STA-RSSI: -62 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 131.49 Mbps 3-sec avg: 155.32 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 0	PASS	STA-RSSI: -63 Rx-Rate: 137.6M Tx-Rate: 344.1M Throughput: 207.54 Mbps 3-sec avg: 209.40 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 30	Below Avg	STA-RSSI: -64 Rx-Rate: 103.2M Tx-Rate: 344.1M Throughput: 99.77 Mbps 3-sec avg: 102.42 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 30	PASS	STA-RSSI: -63 Rx-Rate: 137.6M Tx-Rate: 344.1M Throughput: 207.05 Mbps 3-sec avg: 212.34 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 60	PASS	STA-RSSI: -65 Rx-Rate: 137.6M Tx-Rate: 344.1M Throughput: 101.89 Mbps 3-sec avg: 103.44 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 60	PASS	STA-RSSI: -65 Rx-Rate: 103.2M Tx-Rate: 344.1M Throughput: 206.89 Mbps 3-sec avg: 209.05 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 90	PASS	STA-RSSI: -64 Rx-Rate: 137.6M Tx-Rate: 344.1M Throughput: 101.08 Mbps 3-sec avg: 100.48 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 90	PASS	STA-RSSI: -66 Rx-Rate: 103.2M Tx-Rate: 344.1M Throughput: 208.76 Mbps 3-sec avg: 209.81 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 120	PASS	STA-RSSI: -66 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 110.31 Mbps 3-sec avg: 123.48 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 120	PASS	STA-RSSI: -66 Rx-Rate: 103.2M Tx-Rate: 344.1M Throughput: 209.55 Mbps 3-sec avg: 207.74 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 150	PASS	STA-RSSI: -65 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 139.25 Mbps 3-sec avg: 151.55 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 150	PASS	STA-RSSI: -67 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 213.78 Mbps 3-sec avg: 213.93 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 180	PASS	STA-RSSI: -65 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 142.86 Mbps 3-sec avg: 150.65 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 180	PASS	STA-RSSI: -65 Rx-Rate: 137.6M Tx-Rate: 344.1M Throughput: 210.38 Mbps 3-sec avg: 211.42 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 210	PASS	STA-RSSI: -63 Rx-Rate: 206.4M Tx-Rate: 413M Throughput: 146.47 Mbps 3-sec avg: 134.49 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 210	PASS	STA-RSSI: -63 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 212.73 Mbps 3-sec avg: 212.74 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 240	PASS	STA-RSSI: -64 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 138.21 Mbps 3-sec avg: 128.66 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 240	PASS	STA-RSSI: -65 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 213.54 Mbps 3-sec avg: 217.00 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 270	PASS	STA-RSSI: -64 Rx-Rate: 206.4M Tx-Rate: 413M Throughput: 141.47 Mbps 3-sec avg: 135.19 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 270	PASS	STA-RSSI: -64 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 213.26 Mbps 3-sec avg: 212.95 Mbps Requested-Avg: 100.00 Mbps
		STA-RSSI: -62 Rx-Rate: 206.4M Tx-Rate: 344.1M

AX 2.4Ghz DL Sig: 38 Rot: 300	PASS	Throughput: 152.23 Mbps 3-sec avg: 155.71 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 300	PASS	STA-RSSI: -62 Rx-Rate: 149.7M Tx-Rate: 344.1M Throughput: 213.13 Mbps 3-sec avg: 213.45 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 38 Rot: 330	PASS	STA-RSSI: -63 Rx-Rate: 137.6M Tx-Rate: 344.1M Throughput: 120.21 Mbps 3-sec avg: 128.03 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz UL Sig: 38 Rot: 330	PASS	STA-RSSI: -63 Rx-Rate: 206.4M Tx-Rate: 344.1M Throughput: 207.68 Mbps 3-sec avg: 215.25 Mbps Requested-Avg: 100.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 0	PASS	STA-RSSI: -72 Rx-Rate: 68.8M Tx-Rate: 206.4M Throughput: 41.18 Mbps 3-sec avg: 32.46 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 0	PASS	STA-RSSI: -72 Rx-Rate: 34.4M Tx-Rate: 137.6M Throughput: 85.47 Mbps 3-sec avg: 84.91 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 30	Below Avg	STA-RSSI: -72 Rx-Rate: 51.6M Tx-Rate: 137.6M Throughput: 28.73 Mbps 3-sec avg: 28.46 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 30	PASS	STA-RSSI: -72 Rx-Rate: 17.2M Tx-Rate: 137.6M Throughput: 75.62 Mbps 3-sec avg: 79.73 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 60	Below Avg	STA-RSSI: -74 Rx-Rate: 51.6M Tx-Rate: 137.6M Throughput: 31.83 Mbps 3-sec avg: 31.58 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 60	PASS	STA-RSSI: -73 Rx-Rate: 34.4M Tx-Rate: 137.6M Throughput: 85.65 Mbps 3-sec avg: 87.93 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 90	PASS	STA-RSSI: -74 Rx-Rate: 68.8M Tx-Rate: 137.6M Throughput: 39.55 Mbps 3-sec avg: 42.31 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 90	PASS	STA-RSSI: -73 Rx-Rate: 51.6M Tx-Rate: 137.6M Throughput: 90.01 Mbps 3-sec avg: 88.72 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 120	PASS	STA-RSSI: -74 Rx-Rate: 68.8M Tx-Rate: 137.6M Throughput: 47.19 Mbps 3-sec avg: 46.08 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 120	PASS	STA-RSSI: -74 Rx-Rate: 34.4M Tx-Rate: 137.6M Throughput: 81.48 Mbps 3-sec avg: 90.43 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 150	PASS	STA-RSSI: -74 Rx-Rate: 68.8M Tx-Rate: 137.6M Throughput: 45.74 Mbps 3-sec avg: 46.52 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 150	PASS	STA-RSSI: -74 Rx-Rate: 34.4M Tx-Rate: 137.6M Throughput: 88.31 Mbps 3-sec avg: 88.74 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 180	PASS	STA-RSSI: -74 Rx-Rate: 68.8M Tx-Rate: 137.6M Throughput: 47.27 Mbps 3-sec avg: 47.74 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 180	PASS	STA-RSSI: -73 Rx-Rate: 51.6M Tx-Rate: 137.6M Throughput: 89.98 Mbps 3-sec avg: 90.50 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 210	PASS	STA-RSSI: -72 Rx-Rate: 68.8M Tx-Rate: 206.4M Throughput: 47.46 Mbps 3-sec avg: 47.29 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 210	PASS	STA-RSSI: -72 Rx-Rate: 68.8M Tx-Rate: 206.4M Throughput: 120.24 Mbps 3-sec avg: 128.52 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 240	PASS	STA-RSSI: -73 Rx-Rate: 68.8M Tx-Rate: 194.9M Throughput: 47.56 Mbps 3-sec avg: 48.57 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 240	PASS	STA-RSSI: -73 Rx-Rate: 68.8M Tx-Rate: 206.4M Throughput: 120.03 Mbps 3-sec avg: 120.25 Mbps Requested-Avg: 35.00 Mbps
		STA-RSSI: -72 Rx-Rate: 68.8M Tx-Rate: 206.4M

AX 2.4Ghz DL Sig: 48 Rot: 270	PASS	Throughput: 48.94 Mbps 3-sec avg: 49.86 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 270	PASS	STA-RSSI: -71 Rx-Rate: 34.4M Tx-Rate: 206.4M Throughput: 114.85 Mbps 3-sec avg: 117.04 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 300	PASS	STA-RSSI: -72 Rx-Rate: 68.8M Tx-Rate: 206.4M Throughput: 51.71 Mbps 3-sec avg: 56.65 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 300	PASS	STA-RSSI: -71 Rx-Rate: 68.8M Tx-Rate: 206.4M Throughput: 115.13 Mbps 3-sec avg: 127.68 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz DL Sig: 48 Rot: 330	PASS	STA-RSSI: -71 Rx-Rate: 68.8M Tx-Rate: 206.4M Throughput: 49.00 Mbps 3-sec avg: 47.61 Mbps Requested-Avg: 35.00 Mbps
AX 2.4Ghz UL Sig: 48 Rot: 330	PASS	STA-RSSI: -71 Rx-Rate: 68.8M Tx-Rate: 206.4M Throughput: 126.74 Mbps 3-sec avg: 128.66 Mbps Requested-Avg: 35.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 0	PASS	STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 957.38 Mbps 3-sec avg: 954.36 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 0	PASS	STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 992.94 Mbps 3-sec avg: 997.54 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 30	PASS	STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 919.56 Mbps 3-sec avg: 917.73 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 30	PASS	STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 972.62 Mbps 3-sec avg: 1,003.41 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 60	PASS	STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 958.40 Mbps 3-sec avg: 967.35 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 60	PASS	STA-RSSI: -39 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 987.81 Mbps 3-sec avg: 1,000.52 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 90	PASS	STA-RSSI: -42 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 921.58 Mbps 3-sec avg: 917.69 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 90	PASS	STA-RSSI: -39 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 983.77 Mbps 3-sec avg: 986.11 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 120	PASS	STA-RSSI: -39 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 954.93 Mbps 3-sec avg: 954.91 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 120	PASS	STA-RSSI: -35 Rx-Rate: 960.7M Tx-Rate: 245M Throughput: 981.39 Mbps 3-sec avg: 1,002.05 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 150	PASS	STA-RSSI: -42 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 943.74 Mbps 3-sec avg: 941.74 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 150	PASS	STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 997.67 Mbps 3-sec avg: 983.21 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 180	PASS	STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 955.58 Mbps 3-sec avg: 948.36 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 180	PASS	STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 989.46 Mbps 3-sec avg: 1,001.94 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 210	PASS	STA-RSSI: -42 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 929.65 Mbps 3-sec avg: 932.80 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 210	PASS	STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 996.68 Mbps 3-sec avg: 973.58 Mbps Requested-Avg: 700.00 Mbps
		STA-RSSI: -40 Rx-Rate: 1.201G Tx-Rate: 245M

AX 5Ghz DL Sig: 10 Rot: 240	PASS	Throughput: 953.90 Mbps 3-sec avg: 952.84 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 240	PASS	STA-RSSI: -38 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 997.87 Mbps 3-sec avg: 1,001.96 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 270	PASS	STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 956.13 Mbps 3-sec avg: 953.75 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 270	PASS	STA-RSSI: -39 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 996.13 Mbps 3-sec avg: 999.88 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 300	PASS	STA-RSSI: -45 Rx-Rate: 1.201G Tx-Rate: 245M Throughput: 892.55 Mbps 3-sec avg: 916.13 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 300	PASS	STA-RSSI: -43 Rx-Rate: 1.201G Tx-Rate: 1.201G Throughput: 884.22 Mbps 3-sec avg: 862.69 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 10 Rot: 330	PASS	STA-RSSI: -42 Rx-Rate: 1.201G Tx-Rate: 1.134G Throughput: 949.63 Mbps 3-sec avg: 947.62 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz UL Sig: 10 Rot: 330	PASS	STA-RSSI: -40 Rx-Rate: 1.201G Tx-Rate: 1.134G Throughput: 987.82 Mbps 3-sec avg: 987.20 Mbps Requested-Avg: 700.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 0	PASS	STA-RSSI: -57 Rx-Rate: 960.7M Tx-Rate: 960.7M Throughput: 740.05 Mbps 3-sec avg: 736.38 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 0	PASS	STA-RSSI: -55 Rx-Rate: 1.081G Tx-Rate: 1.081G Throughput: 876.49 Mbps 3-sec avg: 880.82 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 30	PASS	STA-RSSI: -57 Rx-Rate: 960.7M Tx-Rate: 1.081G Throughput: 781.59 Mbps 3-sec avg: 828.55 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 30	PASS	STA-RSSI: -55 Rx-Rate: 1.081G Tx-Rate: 1.081G Throughput: 854.64 Mbps 3-sec avg: 842.20 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 60	PASS	STA-RSSI: -56 Rx-Rate: 960.7M Tx-Rate: 960.7M Throughput: 724.13 Mbps 3-sec avg: 705.44 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 60	PASS	STA-RSSI: -53 Rx-Rate: 960.7M Tx-Rate: 1.081G Throughput: 854.77 Mbps 3-sec avg: 857.08 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 90	PASS	STA-RSSI: -56 Rx-Rate: 960.7M Tx-Rate: 960.7M Throughput: 735.72 Mbps 3-sec avg: 733.17 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 90	PASS	STA-RSSI: -53 Rx-Rate: 1.081G Tx-Rate: 1.081G Throughput: 823.16 Mbps 3-sec avg: 823.05 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 120	PASS	STA-RSSI: -55 Rx-Rate: 960.7M Tx-Rate: 864.8M Throughput: 667.38 Mbps 3-sec avg: 663.09 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 120	PASS	STA-RSSI: -52 Rx-Rate: 864.8M Tx-Rate: 960.7M Throughput: 715.38 Mbps 3-sec avg: 723.43 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 150	PASS	STA-RSSI: -55 Rx-Rate: 960.7M Tx-Rate: 1.021G Throughput: 720.84 Mbps 3-sec avg: 716.93 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 150	PASS	STA-RSSI: -54 Rx-Rate: 1.081G Tx-Rate: 1.081G Throughput: 886.67 Mbps 3-sec avg: 894.53 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 180	PASS	STA-RSSI: -56 Rx-Rate: 960.7M Tx-Rate: 960.7M Throughput: 756.06 Mbps 3-sec avg: 734.98 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 180	PASS	STA-RSSI: -55 Rx-Rate: 1.201G Tx-Rate: 1.081G Throughput: 789.85 Mbps 3-sec avg: 884.72 Mbps Requested-Avg: 400.00 Mbps
		STA-RSSI: -54 Rx-Rate: 960.7M Tx-Rate: 1.021G

AX 5Ghz DL Sig: 25 Rot: 210	PASS	Throughput: 744.96 Mbps 3-sec avg: 728.78 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 210	PASS	STA-RSSI: -54 Rx-Rate: 1.081G Tx-Rate: 1.081G Throughput: 878.42 Mbps 3-sec avg: 876.34 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 240	PASS	STA-RSSI: -52 Rx-Rate: 960.7M Tx-Rate: 1.081G Throughput: 744.93 Mbps 3-sec avg: 745.01 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 240	PASS	STA-RSSI: -52 Rx-Rate: 1.081G Tx-Rate: 1.201G Throughput: 873.68 Mbps 3-sec avg: 868.94 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 270	PASS	STA-RSSI: -55 Rx-Rate: 960.7M Tx-Rate: 1.081G Throughput: 739.43 Mbps 3-sec avg: 747.30 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 270	PASS	STA-RSSI: -53 Rx-Rate: 1.081G Tx-Rate: 1.201G Throughput: 856.45 Mbps 3-sec avg: 862.13 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 300	PASS	STA-RSSI: -58 Rx-Rate: 720.6M Tx-Rate: 720.6M Throughput: 552.61 Mbps 3-sec avg: 551.65 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 300	PASS	STA-RSSI: -57 Rx-Rate: 864.8M Tx-Rate: 680.6M Throughput: 521.50 Mbps 3-sec avg: 520.92 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 25 Rot: 330	PASS	STA-RSSI: -56 Rx-Rate: 960.7M Tx-Rate: 1.081G Throughput: 738.79 Mbps 3-sec avg: 734.85 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz UL Sig: 25 Rot: 330	PASS	STA-RSSI: -56 Rx-Rate: 1.081G Tx-Rate: 1.134G Throughput: 885.21 Mbps 3-sec avg: 886.91 Mbps Requested-Avg: 400.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 0	PASS	STA-RSSI: -66 Rx-Rate: 626.9M Tx-Rate: 576.4M Throughput: 498.44 Mbps 3-sec avg: 502.97 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 0	PASS	STA-RSSI: -63 Rx-Rate: 626.9M Tx-Rate: 720.6M Throughput: 518.98 Mbps 3-sec avg: 510.81 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 30	PASS	STA-RSSI: -64 Rx-Rate: 720.6M Tx-Rate: 626.9M Throughput: 546.03 Mbps 3-sec avg: 539.34 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 30	PASS	STA-RSSI: -62 Rx-Rate: 960.7M Tx-Rate: 720.6M Throughput: 518.63 Mbps 3-sec avg: 531.66 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 60	PASS	STA-RSSI: -64 Rx-Rate: 626.9M Tx-Rate: 576.4M Throughput: 476.47 Mbps 3-sec avg: 441.37 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 60	PASS	STA-RSSI: -62 Rx-Rate: 626.9M Tx-Rate: 626.9M Throughput: 520.27 Mbps 3-sec avg: 527.45 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 90	PASS	STA-RSSI: -64 Rx-Rate: 720.6M Tx-Rate: 576.4M Throughput: 523.67 Mbps 3-sec avg: 497.42 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 90	PASS	STA-RSSI: -62 Rx-Rate: 576.4M Tx-Rate: 626.9M Throughput: 523.31 Mbps 3-sec avg: 528.07 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 120	PASS	STA-RSSI: -62 Rx-Rate: 576.4M Tx-Rate: 432.3M Throughput: 398.89 Mbps 3-sec avg: 369.85 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 120	PASS	STA-RSSI: -61 Rx-Rate: 720.6M Tx-Rate: 432.3M Throughput: 340.51 Mbps 3-sec avg: 330.73 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 150	PASS	STA-RSSI: -67 Rx-Rate: 626.9M Tx-Rate: 626.9M Throughput: 492.39 Mbps 3-sec avg: 497.98 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 150	PASS	STA-RSSI: -63 Rx-Rate: 626.9M Tx-Rate: 720.6M Throughput: 519.80 Mbps 3-sec avg: 529.93 Mbps Requested-Avg: 200.00 Mbps

AX 5Ghz DL Sig: 35 Rot: 180	PASS	STA-RSSI: -65 Rx-Rate: 720.6M Tx-Rate: 576.4M Throughput: 521.10 Mbps 3-sec avg: 485.37 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 180	PASS	STA-RSSI: -63 Rx-Rate: 864.8M Tx-Rate: 626.9M Throughput: 501.83 Mbps 3-sec avg: 499.31 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 210	PASS	STA-RSSI: -62 Rx-Rate: 720.6M Tx-Rate: 626.9M Throughput: 524.21 Mbps 3-sec avg: 537.80 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 210	PASS	STA-RSSI: -61 Rx-Rate: 720.6M Tx-Rate: 626.9M Throughput: 521.94 Mbps 3-sec avg: 525.14 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 240	PASS	STA-RSSI: -61 Rx-Rate: 626.9M Tx-Rate: 626.9M Throughput: 523.60 Mbps 3-sec avg: 507.60 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 240	PASS	STA-RSSI: -59 Rx-Rate: 864.8M Tx-Rate: 720.6M Throughput: 578.31 Mbps 3-sec avg: 576.88 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 270	PASS	STA-RSSI: -64 Rx-Rate: 720.6M Tx-Rate: 626.9M Throughput: 524.94 Mbps 3-sec avg: 515.38 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 270	PASS	STA-RSSI: -62 Rx-Rate: 864.8M Tx-Rate: 720.6M Throughput: 583.02 Mbps 3-sec avg: 583.05 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 300	PASS	STA-RSSI: -68 Rx-Rate: 576.4M Tx-Rate: 313.4M Throughput: 375.99 Mbps 3-sec avg: 438.96 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 300	PASS	STA-RSSI: -66 Rx-Rate: 576.4M Tx-Rate: 360.3M Throughput: 279.87 Mbps 3-sec avg: 280.45 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz DL Sig: 35 Rot: 330	PASS	STA-RSSI: -66 Rx-Rate: 720.6M Tx-Rate: 626.9M Throughput: 536.91 Mbps 3-sec avg: 529.56 Mbps Requested-Avg: 200.00 Mbps
AX 5Ghz UL Sig: 35 Rot: 330	PASS	STA-RSSI: -63 Rx-Rate: 864.8M Tx-Rate: 720.6M Throughput: 563.77 Mbps 3-sec avg: 569.05 Mbps Requested-Avg: 200.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 0	PASS	STA-RSSI: -40 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 117.76 Mbps 3-sec avg: 116.60 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 0	PASS	STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 99.40 Mbps 3-sec avg: 99.57 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 30	PASS	STA-RSSI: -40 Rx-Rate: 144.4M Tx-Rate: 130M Throughput: 118.24 Mbps 3-sec avg: 115.80 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 30	PASS	STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 99.66 Mbps 3-sec avg: 99.29 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 60	PASS	STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 117.73 Mbps 3-sec avg: 116.97 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 60	PASS	STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 99.67 Mbps 3-sec avg: 99.32 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 90	PASS	STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 113.66 Mbps 3-sec avg: 115.46 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 90	PASS	STA-RSSI: -42 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 98.56 Mbps 3-sec avg: 99.71 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 120	PASS	STA-RSSI: -42 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 116.03 Mbps 3-sec avg: 117.12 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 120	PASS	STA-RSSI: -42 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 97.43 Mbps 3-sec avg: 99.37 Mbps Requested-Avg: 90.00 Mbps

N 2.4Ghz DL Sig: 10 Rot: 150	PASS	STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 113.35 Mbps 3-sec avg: 111.65 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 150	PASS	STA-RSSI: -42 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 99.16 Mbps 3-sec avg: 99.37 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 180	PASS	STA-RSSI: -42 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 116.59 Mbps 3-sec avg: 116.92 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 180	PASS	STA-RSSI: -42 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 99.67 Mbps 3-sec avg: 99.66 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 210	PASS	STA-RSSI: -40 Rx-Rate: 144.4M Tx-Rate: 130M Throughput: 116.46 Mbps 3-sec avg: 116.82 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 210	PASS	STA-RSSI: -37 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 99.12 Mbps 3-sec avg: 99.45 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 240	PASS	STA-RSSI: -39 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 119.06 Mbps 3-sec avg: 117.03 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 240	PASS	STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 98.61 Mbps 3-sec avg: 99.27 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 270	PASS	STA-RSSI: -39 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 118.03 Mbps 3-sec avg: 116.77 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 270	PASS	STA-RSSI: -42 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 99.37 Mbps 3-sec avg: 99.53 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 300	PASS	STA-RSSI: -40 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 116.62 Mbps 3-sec avg: 116.41 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 300	PASS	STA-RSSI: -40 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 99.64 Mbps 3-sec avg: 99.64 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 10 Rot: 330	PASS	STA-RSSI: -39 Rx-Rate: 144.4M Tx-Rate: 144.4M Throughput: 98.72 Mbps 3-sec avg: 70.33 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz UL Sig: 10 Rot: 330	Below Avg	STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 86.7M Throughput: 45.15 Mbps 3-sec avg: 56.89 Mbps Requested-Avg: 90.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 0	Below Avg	STA-RSSI: -65 Rx-Rate: 65M Tx-Rate: 13M Throughput: 60.42 Mbps 3-sec avg: 57.13 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 0	Below Avg	STA-RSSI: -62 Rx-Rate: 21.7M Tx-Rate: 115.6M Throughput: 49.92 Mbps 3-sec avg: 56.78 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 30	Below Avg	STA-RSSI: -66 Rx-Rate: 86.7M Tx-Rate: 26M Throughput: 48.99 Mbps 3-sec avg: 51.74 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 30	Below Avg	STA-RSSI: -67 Rx-Rate: 52M Tx-Rate: 115.6M Throughput: 51.59 Mbps 3-sec avg: 66.50 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 60	Below Avg	STA-RSSI: -65 Rx-Rate: 52M Tx-Rate: 13M Throughput: 40.27 Mbps 3-sec avg: 43.95 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 60	Below Avg	STA-RSSI: -66 Rx-Rate: 43.3M Tx-Rate: 115.6M Throughput: 57.34 Mbps 3-sec avg: 56.38 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 90	Below Avg	STA-RSSI: -68 Rx-Rate: 65M Tx-Rate: 13M Throughput: 39.53 Mbps 3-sec avg: 42.59 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 90	Below Avg	STA-RSSI: -65 Rx-Rate: 19.5M Tx-Rate: 57.8M Throughput: 52.61 Mbps 3-sec avg: 41.15 Mbps Requested-Avg: 70.00 Mbps

N 2.4Ghz DL Sig: 38 Rot: 120	Below Avg	STA-RSSI: -67 Rx-Rate: 65M Tx-Rate: 14.4M Throughput: 46.37 Mbps 3-sec avg: 43.24 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 120	Below Avg	STA-RSSI: -64 Rx-Rate: 14.4M Tx-Rate: 115.6M Throughput: 64.85 Mbps 3-sec avg: 29.32 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 150	Below Avg	STA-RSSI: -67 Rx-Rate: 65M Tx-Rate: 26M Throughput: 47.52 Mbps 3-sec avg: 48.75 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 150	Below Avg	STA-RSSI: -65 Rx-Rate: 21.7M Tx-Rate: 115.6M Throughput: 69.20 Mbps 3-sec avg: 70.60 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 180	Below Avg	STA-RSSI: -67 Rx-Rate: 86.7M Tx-Rate: 28.9M Throughput: 59.33 Mbps 3-sec avg: 60.75 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 180	Below Avg	STA-RSSI: -66 Rx-Rate: 26M Tx-Rate: 144.4M Throughput: 65.07 Mbps 3-sec avg: 77.17 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 210	Below Avg	STA-RSSI: -63 Rx-Rate: 86.7M Tx-Rate: 65M Throughput: 62.37 Mbps 3-sec avg: 65.28 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 210	PASS	STA-RSSI: -63 Rx-Rate: 86.7M Tx-Rate: 130M Throughput: 84.80 Mbps 3-sec avg: 87.52 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 240	Below Avg	STA-RSSI: -66 Rx-Rate: 86.7M Tx-Rate: 26M Throughput: 67.21 Mbps 3-sec avg: 64.74 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 240	PASS	STA-RSSI: -65 Rx-Rate: 86.7M Tx-Rate: 144.4M Throughput: 89.13 Mbps 3-sec avg: 89.43 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 270	Below Avg	STA-RSSI: -63 Rx-Rate: 86.7M Tx-Rate: 57.8M Throughput: 64.03 Mbps 3-sec avg: 48.93 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 270	PASS	STA-RSSI: -70 Rx-Rate: 65M Tx-Rate: 144.4M Throughput: 92.65 Mbps 3-sec avg: 95.27 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 300	Below Avg	STA-RSSI: -65 Rx-Rate: 86.7M Tx-Rate: 26M Throughput: 51.75 Mbps 3-sec avg: 61.10 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 300	Below Avg	STA-RSSI: -59 Rx-Rate: 78M Tx-Rate: 115.6M Throughput: 59.48 Mbps 3-sec avg: 0 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 38 Rot: 330	Below Avg	STA-RSSI: -66 Rx-Rate: 72.2M Tx-Rate: 21.7M Throughput: 50.17 Mbps 3-sec avg: 52.89 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz UL Sig: 38 Rot: 330	PASS	STA-RSSI: -62 Rx-Rate: 19.5M Tx-Rate: 86.7M Throughput: 73.34 Mbps 3-sec avg: 61.80 Mbps Requested-Avg: 70.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 0	Below Avg	STA-RSSI: -74 Rx-Rate: 43.3M Tx-Rate: 13M Throughput: 26.03 Mbps 3-sec avg: 25.88 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 0	PASS	STA-RSSI: -73 Rx-Rate: 19.5M Tx-Rate: 86.7M Throughput: 47.30 Mbps 3-sec avg: 46.57 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 30	Below Avg	STA-RSSI: -76 Rx-Rate: 28.9M Tx-Rate: 13M Throughput: 17.53 Mbps 3-sec avg: 31.81 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 30	PASS	STA-RSSI: -76 Rx-Rate: 14.4M Tx-Rate: 115.6M Throughput: 55.46 Mbps 3-sec avg: 65.98 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 60	Below Avg	STA-RSSI: -76 Rx-Rate: 21.7M Tx-Rate: 26M Throughput: 16.06 Mbps 3-sec avg: 30.11 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 60	PASS	STA-RSSI: -75 Rx-Rate: 14.4M Tx-Rate: 115.6M Throughput: 51.19 Mbps 3-sec avg: 67.46 Mbps Requested-Avg: 35.00 Mbps

N 2.4Ghz DL Sig: 48 Rot: 90	Below Avg	STA-RSSI: -76 Rx-Rate: 28.9M Tx-Rate: 13M Throughput: 17.10 Mbps 3-sec avg: 28.37 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 90	PASS	STA-RSSI: -75 Rx-Rate: 14.4M Tx-Rate: 57.8M Throughput: 40.81 Mbps 3-sec avg: 39.99 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 120	Below Avg	STA-RSSI: -75 Rx-Rate: 43.3M Tx-Rate: 13M Throughput: 15.17 Mbps 3-sec avg: 13.84 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 120	PASS	STA-RSSI: -77 Rx-Rate: 26M Tx-Rate: 57.8M Throughput: 41.82 Mbps 3-sec avg: 44.78 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 150	Below Avg	STA-RSSI: -75 Rx-Rate: 28.9M Tx-Rate: 39M Throughput: 18.16 Mbps 3-sec avg: 18.03 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 150	PASS	STA-RSSI: -76 Rx-Rate: 19.5M Tx-Rate: 78M Throughput: 36.56 Mbps 3-sec avg: 41.28 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 180	Below Avg	STA-RSSI: -74 Rx-Rate: 43.3M Tx-Rate: 26M Throughput: 23.10 Mbps 3-sec avg: 26.09 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 180	PASS	STA-RSSI: -75 Rx-Rate: 14.4M Tx-Rate: 86.7M Throughput: 43.84 Mbps 3-sec avg: 42.32 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 210	Below Avg	STA-RSSI: -74 Rx-Rate: 39M Tx-Rate: 39M Throughput: 20.06 Mbps 3-sec avg: 19.94 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 210	PASS	STA-RSSI: -73 Rx-Rate: 28.9M Tx-Rate: 115.6M Throughput: 45.70 Mbps 3-sec avg: 48.47 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 240	Below Avg	STA-RSSI: -74 Rx-Rate: 39M Tx-Rate: 13M Throughput: 25.60 Mbps 3-sec avg: 26.61 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 240	PASS	STA-RSSI: -74 Rx-Rate: 39M Tx-Rate: 115.6M Throughput: 60.58 Mbps 3-sec avg: 71.36 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 270	Below Avg	STA-RSSI: -73 Rx-Rate: 43.3M Tx-Rate: 6.5M Throughput: 27.04 Mbps 3-sec avg: 28.26 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 270	PASS	STA-RSSI: -72 Rx-Rate: 7.2M Tx-Rate: 86.7M Throughput: 49.26 Mbps 3-sec avg: 47.80 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 300	Below Avg	STA-RSSI: -74 Rx-Rate: 39M Tx-Rate: 6.5M Throughput: 19.26 Mbps 3-sec avg: 26.72 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 300	PASS	STA-RSSI: -76 Rx-Rate: 28.9M Tx-Rate: 115.6M Throughput: 51.19 Mbps 3-sec avg: 69.09 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz DL Sig: 48 Rot: 330	Below Avg	STA-RSSI: -73 Rx-Rate: 43.3M Tx-Rate: 6.5M Throughput: 25.17 Mbps 3-sec avg: 27.48 Mbps Requested-Avg: 35.00 Mbps
N 2.4Ghz UL Sig: 48 Rot: 330	Below Avg	STA-RSSI: -80 Rx-Rate: 1M Tx-Rate: 6.5M Throughput: 17.76 Mbps 3-sec avg: 1.95 Mbps Requested-Avg: 35.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 0	PASS	STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 730.05 Mbps 3-sec avg: 735.81 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 0	PASS	STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 677.19 Mbps 3-sec avg: 676.12 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 30	PASS	STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 731.06 Mbps 3-sec avg: 731.33 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 30	PASS	STA-RSSI: -43 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 663.05 Mbps 3-sec avg: 676.63 Mbps Requested-Avg: 500.00 Mbps

AC 5Ghz DL Sig: 10 Rot: 60	PASS	STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 731.13 Mbps 3-sec avg: 734.84 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 60	PASS	STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 676.15 Mbps 3-sec avg: 676.04 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 90	PASS	STA-RSSI: -43 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 734.71 Mbps 3-sec avg: 736.38 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 90	PASS	STA-RSSI: -43 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 676.38 Mbps 3-sec avg: 674.78 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 120	PASS	STA-RSSI: -42 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 732.25 Mbps 3-sec avg: 734.77 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 120	PASS	STA-RSSI: -41 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 674.33 Mbps 3-sec avg: 674.89 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 150	PASS	STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 732.04 Mbps 3-sec avg: 733.40 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 150	PASS	STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 675.91 Mbps 3-sec avg: 676.53 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 180	PASS	STA-RSSI: -42 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 733.31 Mbps 3-sec avg: 731.97 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 180	PASS	STA-RSSI: -41 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 672.26 Mbps 3-sec avg: 675.57 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 210	PASS	STA-RSSI: -42 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 725.05 Mbps 3-sec avg: 732.41 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 210	PASS	STA-RSSI: -40 Rx-Rate: 866.7M Tx-Rate: 780M Throughput: 512.37 Mbps 3-sec avg: 488.69 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 240	PASS	STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 732.50 Mbps 3-sec avg: 733.06 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 240	PASS	STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 659.49 Mbps 3-sec avg: 676.50 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 270	PASS	STA-RSSI: -48 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 730.93 Mbps 3-sec avg: 732.16 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 270	PASS	STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 675.90 Mbps 3-sec avg: 676.47 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 300	PASS	STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 730.60 Mbps 3-sec avg: 729.24 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 300	PASS	STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 662.56 Mbps 3-sec avg: 673.18 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 10 Rot: 330	PASS	STA-RSSI: -45 Rx-Rate: 866.7M Tx-Rate: 780M Throughput: 731.21 Mbps 3-sec avg: 731.35 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz UL Sig: 10 Rot: 330	PASS	STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 673.91 Mbps 3-sec avg: 675.17 Mbps Requested-Avg: 500.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 0	PASS	STA-RSSI: -59 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 732.64 Mbps 3-sec avg: 736.35 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 0	PASS	STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 660.22 Mbps 3-sec avg: 676.19 Mbps Requested-Avg: 400.00 Mbps

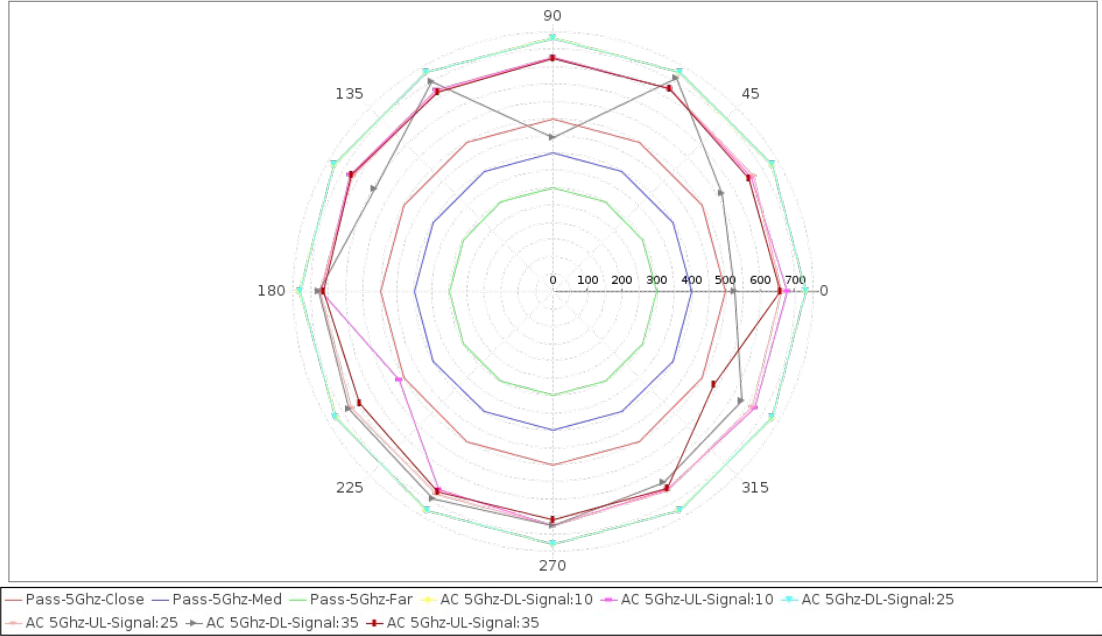
AC 5Ghz DL Sig: 25 Rot: 30	PASS	STA-RSSI: -57 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 732.59 Mbps 3-sec avg: 728.25 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 30	PASS	STA-RSSI: -54 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 670.63 Mbps 3-sec avg: 676.01 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 60	PASS	STA-RSSI: -57 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 731.93 Mbps 3-sec avg: 734.46 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 60	PASS	STA-RSSI: -54 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 676.00 Mbps 3-sec avg: 676.08 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 90	PASS	STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 731.25 Mbps 3-sec avg: 735.28 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 90	PASS	STA-RSSI: -53 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 675.38 Mbps 3-sec avg: 674.05 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 120	PASS	STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 732.66 Mbps 3-sec avg: 729.48 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 120	PASS	STA-RSSI: -55 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 669.28 Mbps 3-sec avg: 676.82 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 150	PASS	STA-RSSI: -61 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 733.27 Mbps 3-sec avg: 733.13 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 150	PASS	STA-RSSI: -58 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 670.70 Mbps 3-sec avg: 676.15 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 180	PASS	STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 730.34 Mbps 3-sec avg: 736.08 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 180	PASS	STA-RSSI: -54 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 675.57 Mbps 3-sec avg: 679.04 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 210	PASS	STA-RSSI: -55 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 729.05 Mbps 3-sec avg: 731.80 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 210	PASS	STA-RSSI: -52 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 675.07 Mbps 3-sec avg: 674.16 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 240	PASS	STA-RSSI: -59 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 729.87 Mbps 3-sec avg: 731.98 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 240	PASS	STA-RSSI: -55 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 676.75 Mbps 3-sec avg: 677.03 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 270	PASS	STA-RSSI: -61 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 731.00 Mbps 3-sec avg: 733.57 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 270	PASS	STA-RSSI: -58 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 675.80 Mbps 3-sec avg: 675.64 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 300	PASS	STA-RSSI: -58 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 731.40 Mbps 3-sec avg: 736.07 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 300	PASS	STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 663.51 Mbps 3-sec avg: 676.24 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz DL Sig: 25 Rot: 330	PASS	STA-RSSI: -61 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 730.14 Mbps 3-sec avg: 734.70 Mbps Requested-Avg: 400.00 Mbps
AC 5Ghz UL Sig: 25 Rot: 330	PASS	STA-RSSI: -58 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 665.29 Mbps 3-sec avg: 676.85 Mbps Requested-Avg: 400.00 Mbps

AC 5Ghz DL Sig: 35 Rot: 0	PASS	STA-RSSI: -68 Rx-Rate: 650M Tx-Rate: 780M Throughput: 527.19 Mbps 3-sec avg: 528.07 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 0	PASS	STA-RSSI: -68 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 658.86 Mbps 3-sec avg: 661.54 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 30	PASS	STA-RSSI: -70 Rx-Rate: 780M Tx-Rate: 650M Throughput: 565.74 Mbps 3-sec avg: 574.00 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 30	PASS	STA-RSSI: -68 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 654.53 Mbps 3-sec avg: 653.66 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 60	PASS	STA-RSSI: -68 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 713.27 Mbps 3-sec avg: 714.58 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 60	PASS	STA-RSSI: -65 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 676.27 Mbps 3-sec avg: 675.54 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 90	PASS	STA-RSSI: -61 Rx-Rate: 780M Tx-Rate: 780M Throughput: 445.76 Mbps 3-sec avg: 695.30 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 90	PASS	STA-RSSI: -65 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 673.30 Mbps 3-sec avg: 675.73 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 120	PASS	STA-RSSI: -68 Rx-Rate: 866.7M Tx-Rate: 780M Throughput: 699.71 Mbps 3-sec avg: 698.64 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 120	PASS	STA-RSSI: -67 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 664.65 Mbps 3-sec avg: 674.15 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 150	PASS	STA-RSSI: -70 Rx-Rate: 780M Tx-Rate: 780M Throughput: 594.03 Mbps 3-sec avg: 597.41 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 150	PASS	STA-RSSI: -64 Rx-Rate: 780M Tx-Rate: 866.7M Throughput: 672.31 Mbps 3-sec avg: 680.08 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 180	PASS	STA-RSSI: -67 Rx-Rate: 866.7M Tx-Rate: 780M Throughput: 678.16 Mbps 3-sec avg: 679.35 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 180	PASS	STA-RSSI: -64 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 663.10 Mbps 3-sec avg: 671.35 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 210	PASS	STA-RSSI: -66 Rx-Rate: 866.7M Tx-Rate: 780M Throughput: 681.45 Mbps 3-sec avg: 676.19 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 210	PASS	STA-RSSI: -62 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 647.58 Mbps 3-sec avg: 653.42 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 240	PASS	STA-RSSI: -68 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 691.86 Mbps 3-sec avg: 691.43 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 240	PASS	STA-RSSI: -66 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 667.82 Mbps 3-sec avg: 674.75 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 270	PASS	STA-RSSI: -69 Rx-Rate: 866.7M Tx-Rate: 780M Throughput: 676.71 Mbps 3-sec avg: 675.17 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 270	PASS	STA-RSSI: -68 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 660.85 Mbps 3-sec avg: 662.81 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz DL Sig: 35 Rot: 300	PASS	STA-RSSI: -69 Rx-Rate: 780M Tx-Rate: 780M Throughput: 637.29 Mbps 3-sec avg: 647.00 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 300	PASS	STA-RSSI: -66 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 658.75 Mbps 3-sec avg: 672.28 Mbps Requested-Avg: 300.00 Mbps

AC 5Ghz DL Sig: 35 Rot: 330	PASS	STA-RSSI: -70 Rx-Rate: 780M Tx-Rate: 780M Throughput: 631.96 Mbps 3-sec avg: 634.84 Mbps Requested-Avg: 300.00 Mbps
AC 5Ghz UL Sig: 35 Rot: 330	PASS	STA-RSSI: -68 Rx-Rate: 866.7M Tx-Rate: 866.7M Throughput: 538.78 Mbps 3-sec avg: 671.34 Mbps Requested-Avg: 300.00 Mbps

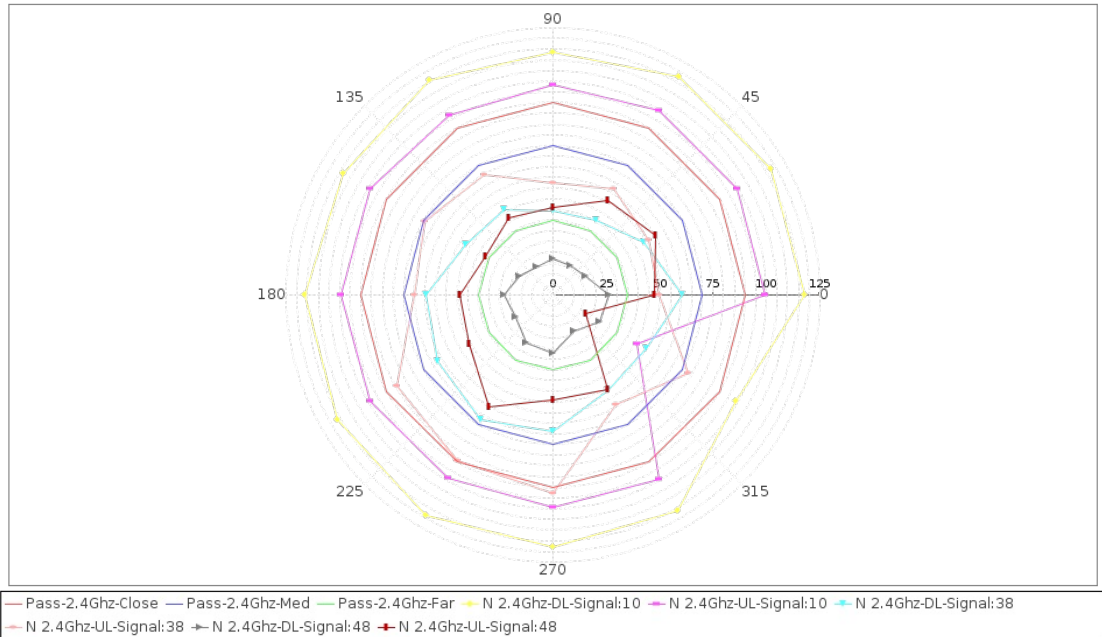
AC 5Ghz Throughput for each Rotation tested. Larger is better.

AC 5Ghz Throughput vs Rotation



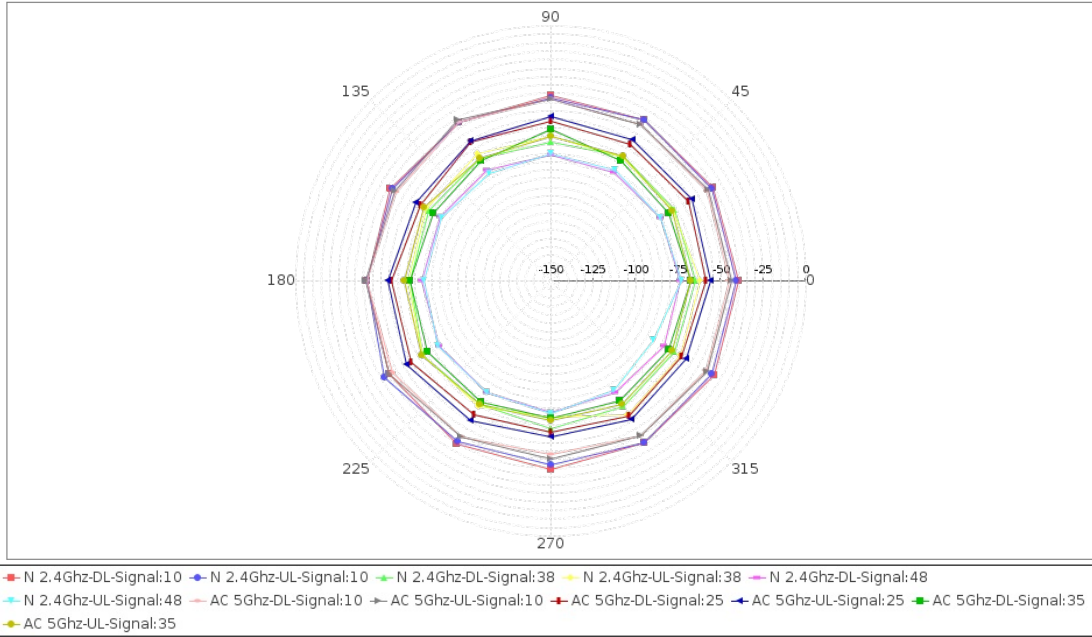
N 2.4Ghz Throughput for each Rotation tested. Larger is better.

N 2.4Ghz Throughput vs Rotation



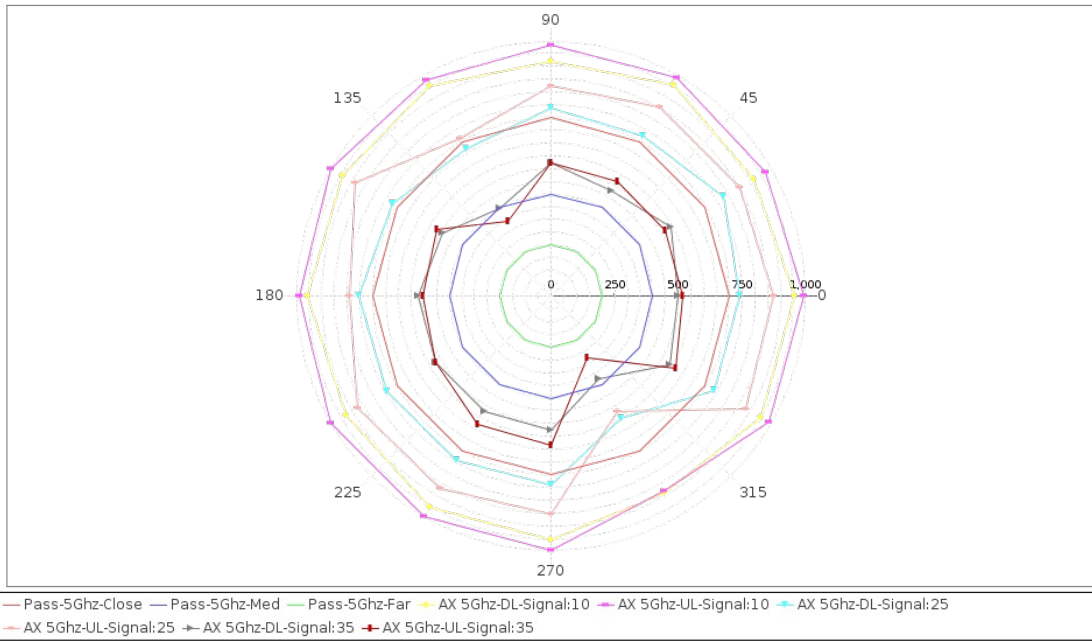
Reported RSSI Value for each Rotation tested. Larger RSSI is better.

N/AC Reported RSSI vs Rotation



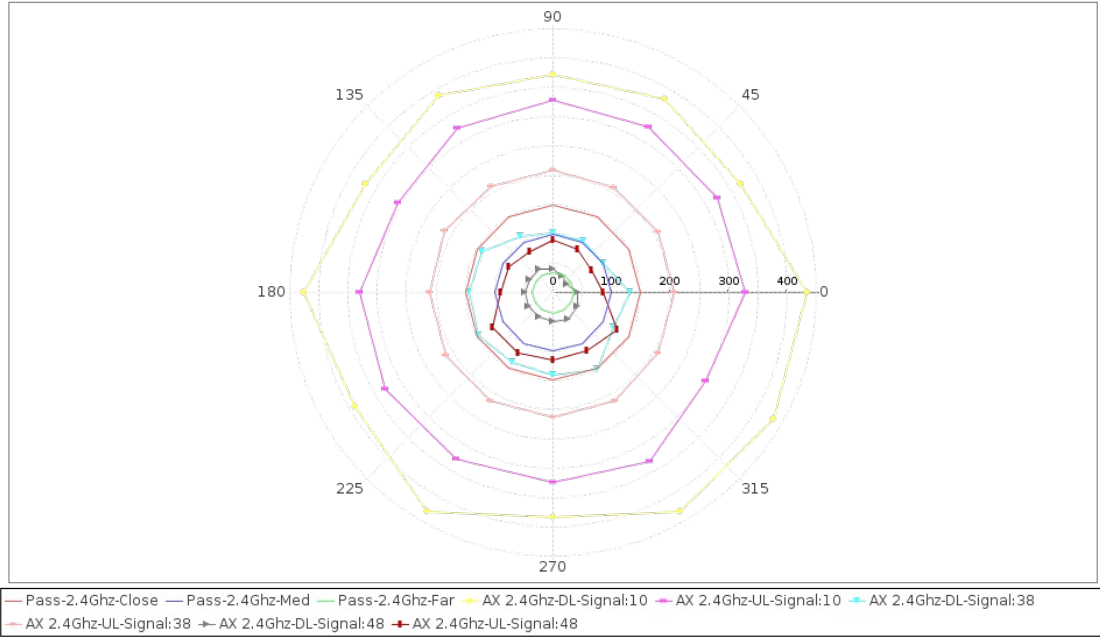
AX 5Ghz Throughput for each Rotation tested. Larger is better.

AX 5Ghz Throughput vs Rotation



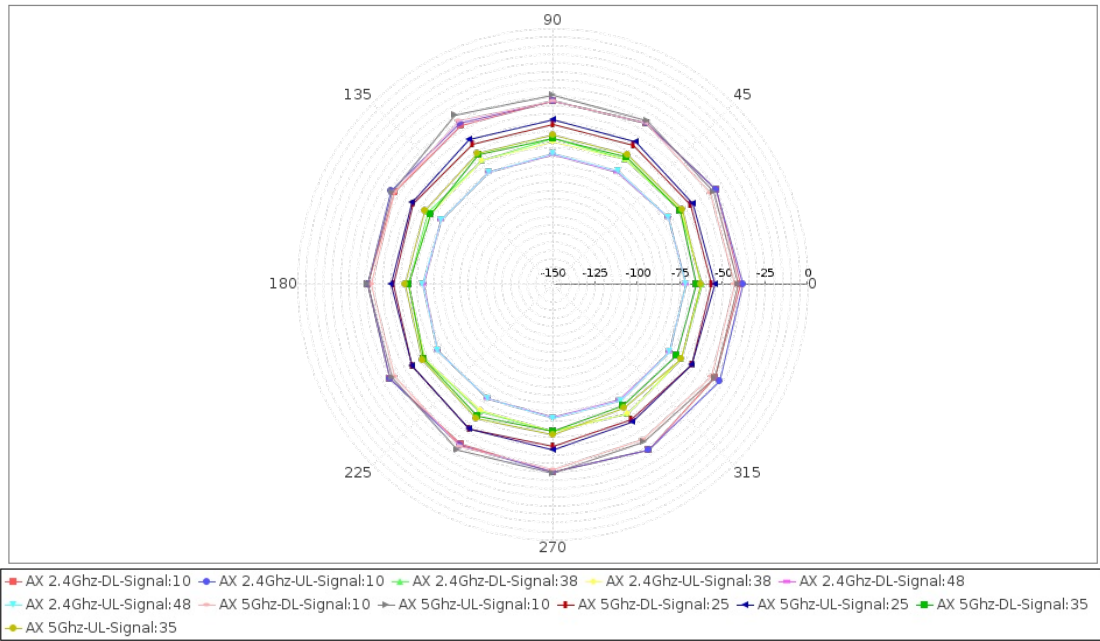
AX 2.4Ghz Throughput for each Rotation tested. Larger is better.

AX 2.4Ghz Throughput vs Rotation

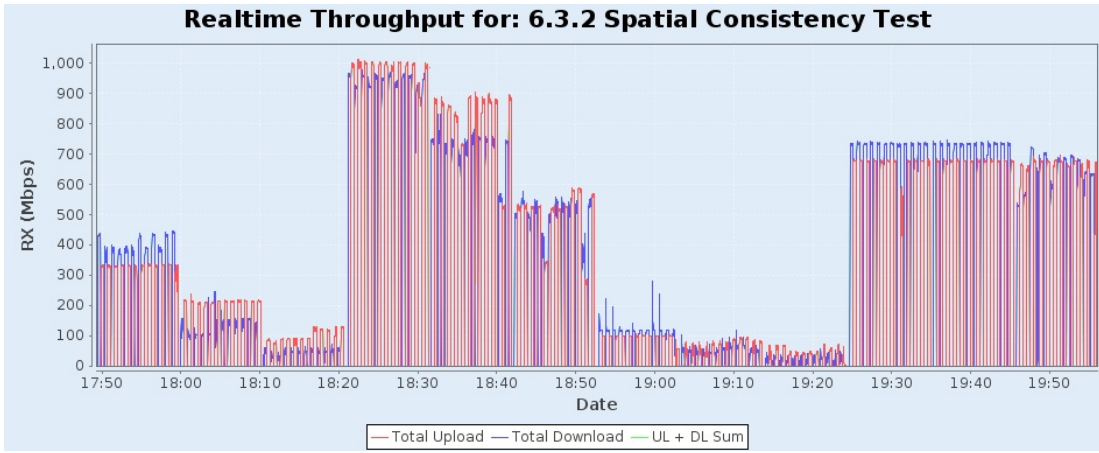


Reported RSSI Value for each Rotation tested. Larger RSSI is better.

AX Reported RSSI vs Rotation



Realtime Throughput for: 6.3.2 Spatial Consistency Test



6.3.3 AX Peak Performance TCP Throughput Test

Summary

The Maximum throughput test intends to measure the maximum throughput performance of the DUT with a single station active. The AP should be configured for 160Mhz on 5G and 40Mhz on 2.4G bands. The test uses TCP connections and the attenuation is adjusted to emulate a distance of 2 meters. The 2.4Ghz station should use 40Mhz bandwidth and the 5Ghz station is configured for 160Mhz bandwidth.

Test Procedure

These steps are done for 2.4Ghz and then for 5Ghz bands.

1. Establish the LAN connection, create 1 station and allow the station to associate with the DUT.
2. Measure the downlink TCP throughput, using a test time of 120 seconds.
3. Measure the uplink TCP throughput, using a test time of 120 seconds.

Pass/Fail Criteria

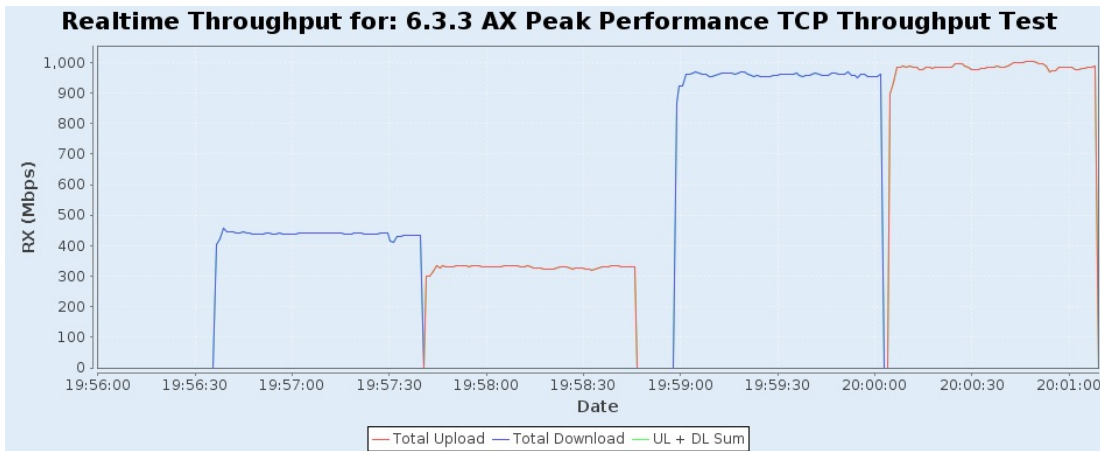
1. For AX 2.4Ghz 40Mhz 2x2, upload/download rate must be ≥ 300 Mbps
2. For AX 5Ghz 160Mhz 2x2, upload/download rate must be ≥ 1.1 Gbps
3. For AX 5Ghz 160Mhz 4x4, upload/download rate must be ≥ 2.4 Gbps
4. For AX 5Ghz 160Mhz 8x8, upload/download rate must be ≥ 4.8 Gbps

Candela Score

The Candela Score for Max Throughput Test is calculated as the percentage of the actual throughput vs the required throughput.

6.3.3 AX Peak Performance TCP Throughput Test Results

Type	Result	Notes
Configuration NOTE	INFO	In UL direction, 5Ghz attenuation will be decreased by: 3 because configured txpower: 20 is different from the TR398 spec's default of 23.
Total AX 2.4Ghz download throughput	PASS	Sum-total download: 438.17 Mbps Requires: 300.00 Mbps STA-RSSI: -31 Rx-Rate: 573.5M Tx-Rate: 573.5M
Total AX 2.4Ghz upload throughput	PASS	Sum-total upload: 329.84 Mbps Requires: 300.00 Mbps STA-RSSI: -30 Rx-Rate: 573.5M Tx-Rate: 573.5M
Total AX 5Ghz download throughput	FAIL	Total AX download: 960.61 Mbps must be at least 1,100.00 Mbps on 5Ghz. STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 1.201G
Total AX 5Ghz upload throughput	FAIL	Total AX upload: 986.28 Mbps must be at least 1,100.00 Mbps on 5Ghz. STA-RSSI: -42 Rx-Rate: 1.201G Tx-Rate: 1.201G



6.4.1 Multiple STAs Performance Test

Summary

Multiple STAs performance test intends to measure the performance of Wi-Fi device connected with multiple STAs at different distances simultaneously. There are three sets of 3 stations, with each group at a different emulated distance.

Test Procedure

These steps are done for 2.4Ghz and 5Ghz.

1. Configure the system to emulate a 2-meter distance. This is the baseline '0' attenuation.
2. Establish the LAN connection, create 3 sets of 3 stations.
3. Group 1 is set to short distance, Group 2 is set to medium distance, and Group 3 is set to long distance.
The attenuations for 2.4Ghz are: 10, 38, 48
The attenuations for 5Ghz are: 10, 25, 35
4. Measure the downlink TCP throughput to each short-distance STA, using a test time of 120 seconds. Calculate the summation of downlink TCP throughput of the three STA set to short distance. Wait for 10 seconds. Measure the uplink TCP throughput to each STA, using a test time of 120 seconds. Calculate the summation uplink TCP throughput of the three STA in short distance.
5. Enable the medium distance stations and allow them to associate with the DUT. Measure the downlink TCP throughput to each of the 6 stations, using a test time of 120 seconds. Calculate the summation of downlink TCP throughput of all STA (three short-distance STA and the three medium-distance STA). Wait for 10 seconds. Measure the uplink TCP throughput to each STA, using a test time of 120 seconds. Calculate the summation of uplink TCP throughput of all 6 stations.
6. Enable the long distance stations and allow them to associate with the DUT. Measure the downlink TCP throughput to each of the 9 stations, using a test time of 120 seconds. Calculate the summation of all STA (downlink TCP throughput of the three short-distance STA, the three medium-distance STA and the three long-distance STA). Wait for 10 seconds. Measure the uplink TCP throughput to each STA, using a test time of 120 seconds. Calculate the summation of uplink TCP throughput of all 9 stations.

When setting the attenuation for upload direction, this test takes the calibrated zero-rssi value, the requested attenuation from 2m baseline, and the Attenuation Adjustment tunable into account. In addition, 5Ghz tests request 23db txpower, and 20db txpower on 2.4. The attenuation will be adjusted if actual tx-power used is below (or above) this value. By default, LANforge will transmit at 20db power on both bands.

Pass/Fail Criteria

Each step must pass a certain amount of traffic in each direction to pass the test.

1. For N 2.4Ghz, short-distance: 70Mbps.
2. For N 2.4Ghz, short-distance and medium-distance: 60Mbps.
3. For N 2.4Ghz, short-distance, medium-distance, and long-distance: 50Mbps.
4. For AC 5Ghz, short-distance: 500Mbps.
5. For AC 5Ghz, short-distance and medium-distance: 500Mbps.
6. For AC 5Ghz, short-distance, medium-distance, and long-distance: 400Mbps.
7. For AX 2.4Ghz, short-distance: 140Mbps.
8. For AX 2.4Ghz, short-distance and medium-distance: 120Mbps.

9. For AX 2.4Ghz, short-distance, medium-distance, and long-distance: 100Mbps.
10. For AX 5Ghz, short-distance: 680Mbps DL, 600Mbps UL.
11. For AX 5Ghz, short-distance and medium-distance: 600Mbps DL, 250Mbps UL.
12. For AX 5Ghz, short-distance, medium-distance, and long-distance: 500Mbps DL, 200Mbps UL.

Candela Score

The Candela Score for Multi STA Test is calculated as the percentage of passing sub-tests.

6.4.1 Multiple STAs Performance Test Results

Type	Result	Notes
6.4.1 Assumptions	INFO	You may shift the attenuation by modifying the Attenuation Adjustment setting on the 'Advanced Configuration' screen.
Configuration NOTE	INFO	In UL direction, 5Ghz attenuation will be decreased by: 3 because configured txpower: 20 is different from the TR398 spec's default of 23.
AX 2.4Ghz DL Group 1	PASS	Requires: 140 Mbps Reported: 399.63 Mbps Group-1 Avg: STA-RSSI: -38 Rx-Rate: 535.167M Tx-Rate: 573.5M
AX 2.4Ghz UL Group 1	PASS	Requires: 140 Mbps Reported: 336.90 Mbps Group-1 Avg: STA-RSSI: -39 Rx-Rate: 477.867M Tx-Rate: 573.5M
AX 2.4Ghz DL Groups 1-2	PASS	Requires: 120 Mbps Reported: 301.12 Mbps Group-1 Avg: STA-RSSI: -39 Rx-Rate: 554.333M Tx-Rate: 573.5M Group-2 Avg: STA-RSSI: -58 Rx-Rate: 240.8M Tx-Rate: 458.8M
AX 2.4Ghz UL Groups 1-2	PASS	Requires: 120 Mbps Reported: 314.20 Mbps Group-1 Avg: STA-RSSI: -39 Rx-Rate: 376.6M Tx-Rate: 573.5M Group-2 Avg: STA-RSSI: -59 Rx-Rate: 141.267M Tx-Rate: 458.8M
AX 2.4Ghz DL Groups 1-3	PASS	Requires: 100 Mbps Reported: 218.78 Mbps Group-1 Avg: STA-RSSI: -39 Rx-Rate: 535.267M Tx-Rate: 573.5M Group-2 Avg: STA-RSSI: -57 Rx-Rate: 252.267M Tx-Rate: 458.8M Group-3 Avg: STA-RSSI: -70 Rx-Rate: 80.267M Tx-Rate: 141.633M
AX 2.4Ghz UL Groups 1-3	PASS	Requires: 100 Mbps Reported: 246.39 Mbps Group-1 Avg: STA-RSSI: -38 Rx-Rate: 250.367M Tx-Rate: 573.5M Group-2 Avg: STA-RSSI: -58 Rx-Rate: 160.533M Tx-Rate: 441.8M Group-3 Avg: STA-RSSI: -69 Rx-Rate: 74.533M Tx-Rate: 126.133M
AX 5Ghz DL Group 1	PASS	Requires: 680 Mbps Reported: 895.29 Mbps Group-1 Avg: STA-RSSI: -43 Rx-Rate: 1.161G Tx-Rate: 483.567M
AX 5Ghz UL Group 1	PASS	Requires: 600 Mbps Reported: 910.59 Mbps Group-1 Avg: STA-RSSI: -41 Rx-Rate: 1.201G Tx-Rate: 1.076G
AX 5Ghz DL Groups 1-2	PASS	Requires: 600 Mbps Reported: 775.08 Mbps Group-1 Avg: STA-RSSI: -43 Rx-Rate: 1.161G Tx-Rate: 1.116G Group-2 Avg: STA-RSSI: -56 Rx-Rate: 848.7M Tx-Rate: 960.7M
AX 5Ghz UL Groups 1-2	PASS	Requires: 250 Mbps Reported: 865.51 Mbps Group-1 Avg: STA-RSSI: -41 Rx-Rate: 1.121G Tx-Rate: 1.076G Group-2 Avg: STA-RSSI: -53 Rx-Rate: 968.7M Tx-Rate: 960.7M
AX 5Ghz DL Groups 1-3	PASS	Requires: 500 Mbps Reported: 631.82 Mbps Group-1 Avg: STA-RSSI: -42 Rx-Rate: 1.121G Tx-Rate: 1.134G Group-2 Avg: STA-RSSI: -55 Rx-Rate: 816.733M Tx-Rate: 942.933M Group-3 Avg: STA-RSSI: -65 Rx-Rate: 528.367M Tx-Rate: 392.667M
AX 5Ghz UL Groups 1-3	PASS	Requires: 200 Mbps Reported: 737.65 Mbps Group-1 Avg: STA-RSSI: -39 Rx-Rate: 1.121G Tx-Rate: 1.076G Group-2 Avg: STA-RSSI: -53 Rx-Rate: 896.767M Tx-Rate: 928.733M Group-3 Avg: STA-RSSI: -62 Rx-Rate: 562.033M Tx-Rate: 480.333M
N 2.4Ghz DL Group 1	PASS	Requires: 70 Mbps Reported: 116.47 Mbps Group-1 Avg: STA-RSSI: -37 Rx-Rate: 11M Tx-Rate: 144.4M
N 2.4Ghz UL Group 1	PASS	Requires: 70 Mbps Reported: 96.32 Mbps Group-1 Avg: STA-RSSI: -40 Rx-Rate: 144.4M Tx-Rate: 144.4M
N 2.4Ghz DL Groups 1-2	PASS	Requires: 60 Mbps Reported: 105.02 Mbps Group-1 Avg: STA-RSSI: -41 Rx-Rate: 144.4M Tx-Rate: 144.4M Group-2 Avg: STA-RSSI: -60 Rx-Rate: 130M Tx-Rate: 139.6M
N 2.4Ghz UL Groups 1-2	PASS	Requires: 60 Mbps Reported: 88.62 Mbps Group-1 Avg: STA-RSSI: -38 Rx-Rate: 99.933M Tx-Rate: 101.067M Group-2 Avg: STA-RSSI: -56 Rx-Rate: 73M Tx-Rate: 50.567M
N 2.4Ghz DL Groups 1-3	PASS	Requires: 50 Mbps Reported: 80.22 Mbps Group-1 Avg: STA-RSSI: -39 Rx-Rate: 55.467M Tx-Rate: 134.8M Group-2 Avg: STA-RSSI: -61 Rx-Rate: 130M Tx-Rate: 139.6M

		Group-3 Avg: STA-RSSI: -77 Rx-Rate: 42.433M Tx-Rate: 6.5M
N 2.4Ghz UL Groups 1-3	PASS	Requires: 50 Mbps Reported: 75.40 Mbps Group-1 Avg: STA-RSSI: -38 Rx-Rate: 93.4M Tx-Rate: 144.4M Group-2 Avg: STA-RSSI: -59 Rx-Rate: 69.333M Tx-Rate: 134.8M Group-3 Avg: STA-RSSI: -69 Rx-Rate: 18.467M Tx-Rate: 15.633M
AC 5Ghz DL Group 1	PASS	Requires: 500 Mbps Reported: 728.94 Mbps Group-1 Avg: STA-RSSI: -40 Rx-Rate: 304.9M Tx-Rate: 866.7M
AC 5Ghz UL Group 1	PASS	Requires: 500 Mbps Reported: 673.81 Mbps Group-1 Avg: STA-RSSI: -43 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL Groups 1-2	PASS	Requires: 500 Mbps Reported: 708.05 Mbps Group-1 Avg: STA-RSSI: -44 Rx-Rate: 866.7M Tx-Rate: 837.8M Group-2 Avg: STA-RSSI: -56 Rx-Rate: 866.7M Tx-Rate: 837.8M
AC 5Ghz UL Groups 1-2	PASS	Requires: 500 Mbps Reported: 665.84 Mbps Group-1 Avg: STA-RSSI: -43 Rx-Rate: 866.7M Tx-Rate: 837.8M Group-2 Avg: STA-RSSI: -52 Rx-Rate: 866.7M Tx-Rate: 866.7M
AC 5Ghz DL Groups 1-3	PASS	Requires: 400 Mbps Reported: 685.15 Mbps Group-1 Avg: STA-RSSI: -42 Rx-Rate: 304.9M Tx-Rate: 693.333M Group-2 Avg: STA-RSSI: -55 Rx-Rate: 585.8M Tx-Rate: 837.8M Group-3 Avg: STA-RSSI: -65 Rx-Rate: 866.7M Tx-Rate: 808.9M
AC 5Ghz UL Groups 1-3	PASS	Requires: 400 Mbps Reported: 631.30 Mbps Group-1 Avg: STA-RSSI: -43 Rx-Rate: 808.9M Tx-Rate: 837.8M Group-2 Avg: STA-RSSI: -50 Rx-Rate: 837.8M Tx-Rate: 866.7M Group-3 Avg: STA-RSSI: -61 Rx-Rate: 866.7M Tx-Rate: 837.8M

Multi_Sta: Run #0 DL Snapshot 2.4Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	256.125 Kbps	73.675 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	207	-40	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	384.964 Kbps	103.594 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	172	-37	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	321.506 Kbps	112.682 Mbps	0	573.5 Mbps	573.5 Mbps	802.11bgn-AX	6	114	-38	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	416.524 Mbps	1.114 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	96.31 Mbps	4,953	4,953	6,979	0
cv_tcp-2.2-2.wlan0--1.0.0-B	96.419 Mbps	0 bps	0	4,953	0	0
cv_tcp-2.2-2.wlan1--1.0.5-A	0 bps	145.339 Mbps	1,302	1,302	1,734	0.006
cv_tcp-2.2-2.wlan1--1.0.5-B	146.846 Mbps	0 bps	0	1,302	0	0
cv_tcp-2.2-2.wlan2--1.0.10-A	0 bps	158.107 Mbps	420	420	7	0.14
cv_tcp-2.2-2.wlan2--1.0.10-B	158.905 Mbps	0 bps	0	420	0	0

Multi_Sta: Run #0 UL Snapshot 2.4Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	76.068 Mbps	37.655 Mbps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	207	-40	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	66.243 Mbps	52.237 Mbps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	172	-40	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	67.874 Mbps	60.192 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	114	-38	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	61.621 Mbps	291.581 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

--	--	--	--	--	--

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	119.614 Mbps	0 bps	0	1,895	0	0
cv_tcp-2.2-2.wlan0--1.0.0-B	0 bps	119.627 Mbps	1,895	1,895	1,222	0
cv_tcp-2.2-2.wlan1--1.0.5-A	107.909 Mbps	0 bps	0	1,589	0	0
cv_tcp-2.2-2.wlan1--1.0.5-B	0 bps	107.987 Mbps	1,589	1,589	406	0
cv_tcp-2.2-2.wlan2--1.0.10-A	109.177 Mbps	0 bps	0	1,732	0	0
cv_tcp-2.2-2.wlan2--1.0.10-B	0 bps	109.159 Mbps	1,732	1,732	410	0

Multi_Sta: Run #1 DL Snapshot 2.4Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	238.296 Kbps	53.356 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	207	-40	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	47.597 Mbps	51.312 Mbps	0	573.5 Mbps	573.5 Mbps	802.11bgn-AX	6	172	-40	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	48.07 Mbps	46.182 Mbps	0	573.5 Mbps	573.5 Mbps	802.11bgn-AX	6	114	-39	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan4	180.696 Kbps	25.746 Mbps	0	458.8 Mbps	275.2 Mbps	802.11bgn-AX	6	2,281	-59	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.20 wlan5	172.291 Kbps	21.949 Mbps	0	458.8 Mbps	172 Mbps	802.11bgn-AX	6	161	-58	4C:B1:CD:18:E8:E8	172.18.101.144	e8:f4:08:21:96:84
1.2.21 wlan6	201.627 Kbps	26.494 Mbps	0.01	458.8 Mbps	275.2 Mbps	802.11bgn-AX	6	167	-58	4C:B1:CD:18:E8:E8	172.18.101.142	a4:6b:b6:3d:d5:ec

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	221.642 Mbps	97.716 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	50.009 Mbps	7,277	7,277	6,401	0
cv_tcp-2.2-2.wlan0--1.0.0-B	49.697 Mbps	0 bps	0	7,277	0	0
cv_tcp-2.2-2.wlan1--1.0.5-A	0 bps	94.144 Mbps	1,132	1,132	788	0
cv_tcp-2.2-2.wlan1--1.0.5-B	94.15 Mbps	0 bps	0	1,132	0	0
cv_tcp-2.2-2.wlan2--1.0.10-A	0 bps	86.276 Mbps	679	679	472	0
cv_tcp-2.2-2.wlan2--1.0.10-B	86.976 Mbps	0 bps	0	679	0	0
cv_tcp-2.2-2.wlan4--1.0.15-A	0 bps	25.075 Mbps	3,543	3,543	1,343	0
cv_tcp-2.2-2.wlan4--1.0.15-B	25.139 Mbps	0 bps	0	3,543	0	0
cv_tcp-2.2-2.wlan5--1.0.20-A	0 bps	20.892 Mbps	2,897	2,897	286	1.484
cv_tcp-2.2-2.wlan5--1.0.20-B	21.25 Mbps	0 bps	0	2,897	0	0
cv_tcp-2.2-2.wlan6--1.0.25-A	0 bps	25.09 Mbps	4,542	4,542	7,182	0.472
cv_tcp-2.2-2.wlan6--1.0.25-B	25.371 Mbps	0 bps	0	4,542	0	0

Multi_Sta: Run #1 UL Snapshot 2.4Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	78.467 Mbps	3.76 Mbps	0	573.5 Mbps	275.2 Mbps	802.11bgn-AX	6	207	-36	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	71.932 Mbps	8.813 Mbps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	172	-38	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	78.228 Mbps	1.134 Mbps	0	573.5 Mbps	413 Mbps	802.11bgn-AX	6	114	-40	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan4	23.32 Mbps	1.291 Mbps	0	458.8 Mbps	275.2 Mbps	802.11bgn-AX	6	2,281	-59	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.20 wlan5	24.892 Mbps	3.346 Mbps	0.001	458.8 Mbps	137.6 Mbps	802.11bgn-AX	6	161	-59	4C:B1:CD:18:E8:E8	172.18.101.144	e8:f4:08:21:96:84
1.2.21 wlan6	11.321 Mbps	3.924 Mbps	0.004	458.8 Mbps	11 Mbps	802.11bgn-AX	6	167	-60	4C:B1:CD:18:E8:E8	172.18.101.142	a4:6b:b6:3d:d5:ec

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC

1.2.2 eth2|116.235 Mbps|203.804 Mbps|2.5 Gbps|172.18.0.1|9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	86.003 Mbps	0 bps	0	2,637	0	0
cv_tcp-2.2-2.wlan0--1.0.0-B	0 bps	86.138 Mbps	2,637	2,637	283	0
cv_tcp-2.2-2.wlan1--1.0.5-A	81.454 Mbps	0 bps	0	2,252	0	0
cv_tcp-2.2-2.wlan1--1.0.5-B	0 bps	81.475 Mbps	2,252	2,252	728	0
cv_tcp-2.2-2.wlan2--1.0.10-A	81.451 Mbps	0 bps	0	2,019	0	0
cv_tcp-2.2-2.wlan2--1.0.10-B	0 bps	81.419 Mbps	2,019	2,019	520	0
cv_tcp-2.2-2.wlan4--1.0.15-A	25.777 Mbps	0 bps	0	4,918	0	0
cv_tcp-2.2-2.wlan4--1.0.15-B	0 bps	25.86 Mbps	4,918	4,918	3,712	0
cv_tcp-2.2-2.wlan5--1.0.20-A	29.37 Mbps	0 bps	0	3,953	0	0
cv_tcp-2.2-2.wlan5--1.0.20-B	0 bps	29.331 Mbps	3,953	3,953	1,968	0
cv_tcp-2.2-2.wlan6--1.0.25-A	10.713 Mbps	0 bps	0	7,241	0	0
cv_tcp-2.2-2.wlan6--1.0.25-B	0 bps	10.759 Mbps	7,241	7,241	6,872	0

Multi_Sta: Run #2 DL Snapshot 2.4Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	15.786 Mbps	34.257 Mbps	0	573.5 Mbps	458.8 Mbps	802.11bgn-AX	6	207	-40	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	17.684 Mbps	50.035 Mbps	0	573.5 Mbps	573.5 Mbps	802.11bgn-AX	6	172	-38	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	11.272 Mbps	37.058 Mbps	0	573.5 Mbps	516 Mbps	802.11bgn-AX	6	114	-39	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan4	6.102 Mbps	14.903 Mbps	0	458.8 Mbps	275.2 Mbps	802.11bgn-AX	6	2,281	-58	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.20 wlan5	8.604 Mbps	11.326 Mbps	0.001	458.8 Mbps	206.4 Mbps	802.11bgn-AX	6	161	-59	4C:B1:CD:18:E8:E8	172.18.101.144	e8:f4:08:21:96:84
1.2.21 wlan6	137.178 Kbps	12.482 Mbps	0.003	458.8 Mbps	275.2 Mbps	802.11bgn-AX	6	167	-56	4C:B1:CD:18:E8:E8	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.22 wlan8	112.194 Kbps	5.779 Mbps	0.085	149.7 Mbps	103.2 Mbps	802.11bgn-AX	6	367	-68	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.23 wlan9	58.985 Kbps	3.363 Mbps	0.396	137.6 Mbps	68.8 Mbps	802.11bgn-AX	6	1,107	-71	4C:B1:CD:18:E8:E8	172.18.101.149	e8:f4:08:03:1d:da
1.2.24 wlan10	95.408 Kbps	4.06 Mbps	0.191	137.6 Mbps	68.8 Mbps	802.11bgn-AX	6	603	-71	4C:B1:CD:18:E8:E8	172.18.101.148	a4:6b:b6:3e:d6:04

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	222.902 Mbps	1.281 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	35.36 Mbps	12,597	12,597	3,082	0.071
cv_tcp-2.2-2.wlan0--1.0.0-B	35.275 Mbps	0 bps	0	12,597	0	0
cv_tcp-2.2-2.wlan1--1.0.5-A	0 bps	68.435 Mbps	1,119	1,119	462	0
cv_tcp-2.2-2.wlan1--1.0.5-B	68.441 Mbps	0 bps	0	1,119	0	0
cv_tcp-2.2-2.wlan2--1.0.10-A	0 bps	47.796 Mbps	744	744	163	0.634
cv_tcp-2.2-2.wlan2--1.0.10-B	48.027 Mbps	0 bps	0	744	0	0
cv_tcp-2.2-2.wlan4--1.0.15-A	0 bps	19.138 Mbps	2,432	2,432	919	1.29
cv_tcp-2.2-2.wlan4--1.0.15-B	19.574 Mbps	0 bps	0	2,432	0	0
cv_tcp-2.2-2.wlan5--1.0.20-A	0 bps	15.001 Mbps	3,259	3,259	726	0
cv_tcp-2.2-2.wlan5--1.0.20-B	15.019 Mbps	0 bps	0	3,259	0	0
cv_tcp-2.2-2.wlan6--1.0.25-A	0 bps	16.865 Mbps	2,816	2,816	1,590	0.399
cv_tcp-2.2-2.wlan6--1.0.25-B	16.973 Mbps	0 bps	0	2,816	0	0
cv_tcp-2.2-2.wlan8--1.0.30-A	0 bps	7.32 Mbps	13,651	13,651	7,017	0.791
cv_tcp-2.2-2.wlan8--1.0.30-B	7.447 Mbps	0 bps	0	13,651	0	0
cv_tcp-2.2-2.wlan9--1.0.35-A	0 bps	4.071 Mbps	6,387	6,387	4,167	3.564
cv_tcp-2.2-2.wlan9--1.0.35-B	4.272 Mbps	0 bps	0	6,387	0	0
cv_tcp-2.2-2.wlan10--1.0.40-A	0 bps	4.7 Mbps	20,437	20,437	21,705	1.325
cv_tcp-2.2-2.wlan10--1.0.40-B	4.81 Mbps	0 bps	0	20,437	0	0

Multi_Sta: Run #2 UL Snapshot 2.4Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	38.055 Mbps	12.418 Mbps	0	573.5 Mbps	206.5 Mbps	802.11bgn-AX	6	207	-37	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	35.648 Mbps	24.946 Mbps	0	573.5 Mbps	258 Mbps	802.11bgn-AX	6	172	-38	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	42.145 Mbps	14.849 Mbps	0	573.5 Mbps	286.7 Mbps	802.11bgn-AX	6	114	-41	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan4	10.567 Mbps	6.226 Mbps	0	458.8 Mbps	206.4 Mbps	802.11bgn-AX	6	2,281	-58	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.20 wlan5	10.263 Mbps	5.245 Mbps	0.001	433.3 Mbps	137.6 Mbps	802.11bgn-AX	6	161	-58	4C:B1:CD:18:E8:E8	172.18.101.144	e8:f4:08:21:96:84
1.2.21 wlan6	12.416 Mbps	6.143 Mbps	0.002	433.3 Mbps	137.6 Mbps	802.11bgn-AX	6	167	-58	4C:B1:CD:18:E8:E8	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.22 wlan8	5.566 Mbps	2.66 Mbps	0.067	137.6 Mbps	103.2 Mbps	802.11bgn-AX	6	367	-68	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.23 wlan9	4.375 Mbps	1.292 Mbps	0.343	137.6 Mbps	51.6 Mbps	802.11bgn-AX	6	1,107	-69	4C:B1:CD:18:E8:E8	172.18.101.149	e8:f4:08:03:1d:da
1.2.24 wlan10	6.717 Mbps	1.788 Mbps	0.058	103.2 Mbps	68.8 Mbps	802.11bgn-AX	6	603	-72	4C:B1:CD:18:E8:E8	172.18.101.148	a4:6b:b6:3e:d6:04

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	41.133 Mbps	207.853 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	57.443 Mbps	0 bps	0	4,777	0	0
cv_tcp-2.2-2.wlan0--1.0.0-B	0 bps	57.345 Mbps	4,777	4,777	2,042	0.015
cv_tcp-2.2-2.wlan1--1.0.5-A	55.722 Mbps	0 bps	0	3,242	0	0
cv_tcp-2.2-2.wlan1--1.0.5-B	0 bps	55.702 Mbps	3,242	3,242	1,166	0
cv_tcp-2.2-2.wlan2--1.0.10-A	61.131 Mbps	0 bps	0	3,189	0	0
cv_tcp-2.2-2.wlan2--1.0.10-B	0 bps	61.011 Mbps	3,189	3,189	1,359	0
cv_tcp-2.2-2.wlan4--1.0.15-A	15.127 Mbps	0 bps	0	5,864	0	0
cv_tcp-2.2-2.wlan4--1.0.15-B	0 bps	15.177 Mbps	5,864	5,864	3,063	0
cv_tcp-2.2-2.wlan5--1.0.20-A	15.155 Mbps	0 bps	0	5,656	0	0
cv_tcp-2.2-2.wlan5--1.0.20-B	0 bps	15.078 Mbps	5,656	5,656	3,400	0.168
cv_tcp-2.2-2.wlan6--1.0.25-A	18.67 Mbps	0 bps	0	5,836	0	0
cv_tcp-2.2-2.wlan6--1.0.25-B	0 bps	18.759 Mbps	5,836	5,836	4,789	0
cv_tcp-2.2-2.wlan8--1.0.30-A	8.266 Mbps	0 bps	0	8,274	0	0
cv_tcp-2.2-2.wlan8--1.0.30-B	0 bps	8.127 Mbps	8,274	8,274	10,469	0
cv_tcp-2.2-2.wlan9--1.0.35-A	5.363 Mbps	0 bps	0	10,061	0	0
cv_tcp-2.2-2.wlan9--1.0.35-B	0 bps	5.292 Mbps	10,061	10,061	9,927	1.087
cv_tcp-2.2-2.wlan10--1.0.40-A	10.247 Mbps	0 bps	0	7,611	0	0
cv_tcp-2.2-2.wlan10--1.0.40-B	0 bps	10.292 Mbps	7,611	7,611	4,139	0

Multi_Sta: Run #0 DL Snapshot 5Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	720.78 Kbps	271.387 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	112	-43	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	799.784 Kbps	295.558 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	256	-43	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	544.017 Kbps	179.011 Mbps	0	960.7 Mbps	1.081 Gbps	802.11an-AX	36	268	-43	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	898.92 Mbps	2.01 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	327.334 Mbps	1,570	1,570	1,070	0
cv_tcp-2.2-2.wlan0--1.0.0-B	327.257 Mbps	0 bps	0	1,570	0	0
cv_tcp-2.2-2.wlan1--1.0.5-A	0 bps	353.594 Mbps	750	750	567	0
cv_tcp-2.2-2.wlan1--1.0.5-B	354.227 Mbps	0 bps	0	750	0	0
cv_tcp-2.2-2.wlan2--1.0.10-A	0 bps	214.093 Mbps	1,203	1,203	1,237	0
cv_tcp-2.2-2.wlan2--1.0.10-B	214.235 Mbps	0 bps	0	1,203	0	0

Multi_Sta: Run #0 UL Snapshot 5Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	218.386 Mbps	97.009 Mbps	0	1134.2 Mbps	1.201 Gbps	802.11an-AX	36	112	-42	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	251.956 Mbps	106.613 Mbps	0	1134.2 Mbps	1.201 Gbps	802.11an-AX	36	256	-41	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	159.052 Mbps	69.425 Mbps	0	960.7 Mbps	1.201 Gbps	802.11an-AX	36	268	-41	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	171.846 Mbps	757.434 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	308.006 Mbps	0 bps	0	2,494	0	0
cv_tcp-2.2-2.wlan0--1.0.0-B	0 bps	308.386 Mbps	2,494	2,494	730	0
cv_tcp-2.2-2.wlan1--1.0.5-A	375.867 Mbps	0 bps	0	1,538	0	0
cv_tcp-2.2-2.wlan1--1.0.5-B	0 bps	375.777 Mbps	1,538	1,538	694	0.088
cv_tcp-2.2-2.wlan2--1.0.10-A	229.292 Mbps	0 bps	0	3,915	0	0
cv_tcp-2.2-2.wlan2--1.0.10-B	0 bps	229.338 Mbps	3,915	3,915	399	0

Multi_Sta: Run #1 DL Snapshot 5Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	110.737 Mbps	139.096 Mbps	0	1134.2 Mbps	1.201 Gbps	802.11an-AX	36	112	-43	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	129.995 Mbps	112.762 Mbps	0	1134.2 Mbps	1.201 Gbps	802.11an-AX	36	256	-43	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	83.332 Mbps	72.367 Mbps	0	1080.6 Mbps	1.081 Gbps	802.11an-AX	36	268	-43	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan4	286.815 Kbps	72.312 Mbps	0	960.7 Mbps	864.8 Mbps	802.11an-AX	36	126	-56	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.20 wlan5	204.81 Kbps	60.423 Mbps	0	960.7 Mbps	960.7 Mbps	802.11an-AX	36	289	-57	4C:B1:CD:18:E8:EC	172.18.101.144	e8:f4:08:21:96:84
1.2.21 wlan6	163.249 Kbps	46.253 Mbps	0	960.7 Mbps	720.6 Mbps	802.11an-AX	36	115	-55	4C:B1:CD:18:E8:EC	172.18.101.142	a4:6b:b6:3d:d5:ec

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	564.528 Mbps	269.704 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	206.416 Mbps	3,102	3,102	779	0
cv_tcp-2.2-2.wlan0--1.0.0-B	206.42 Mbps	0 bps	0	3,102	0	0
cv_tcp-2.2-2.wlan1--1.0.5-A	0 bps	200.505 Mbps	336	336	130	0.537
cv_tcp-2.2-2.wlan1--1.0.5-B	201.508 Mbps	0 bps	0	336	0	0
cv_tcp-2.2-2.wlan2--1.0.10-A	0 bps	103.62 Mbps	1,514	1,514	1,042	0
cv_tcp-2.2-2.wlan2--1.0.10-B	103.78 Mbps	0 bps	0	1,514	0	0
cv_tcp-2.2-2.wlan4--1.0.15-A	0 bps	101.708 Mbps	2,000	2,000	355	0

cv_tcp-2.2-2.wlan4--1.0.15-B	101.675 Mbps	0 bps	0	2,000	0	0
cv_tcp-2.2-2.wlan5--1.0.20-A	0 bps	96.549 Mbps	626	626	410	0
cv_tcp-2.2-2.wlan5--1.0.20-B	96.938 Mbps	0 bps	0	626	0	0
cv_tcp-2.2-2.wlan6--1.0.25-A	0 bps	68.814 Mbps	1,798	1,798	1,240	0
cv_tcp-2.2-2.wlan6--1.0.25-B	68.814 Mbps	0 bps	0	1,798	0	0

Multi_Sta: Run #1 UL Snapshot 5Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	240.214 Mbps	1.73 Mbps	0	1134.2 Mbps	960.7 Mbps	802.11an-AX	36	112	-41	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	300.023 Mbps	2.115 Mbps	0	1134.2 Mbps	1.201 Gbps	802.11an-AX	36	256	-41	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	195.596 Mbps	1.826 Mbps	0	960.7 Mbps	1.201 Gbps	802.11an-AX	36	268	-41	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan4	44.721 Mbps	487.091 Kbps	0	960.7 Mbps	1.081 Gbps	802.11an-AX	36	524	-54	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.20 wlan5	61.035 Mbps	656.063 Kbps	0	960.7 Mbps	864.8 Mbps	802.11an-AX	36	289	-54	4C:B1:CD:18:E8:EC	172.18.101.144	e8:f4:08:21:96:84
1.2.21 wlan6	37.858 Mbps	454.414 Kbps	0	960.7 Mbps	960.7 Mbps	802.11an-AX	36	115	-52	4C:B1:CD:18:E8:EC	172.18.101.142	a4:6b:b6:3d:d5:ec

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	7.682 Mbps	910.878 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	238.161 Mbps	0 bps	0	4,680	0	0
cv_tcp-2.2-2.wlan0--1.0.0-B	0 bps	237.579 Mbps	4,680	4,680	149	0.401
cv_tcp-2.2-2.wlan1--1.0.5-A	289.224 Mbps	0 bps	0	5,256	0	0
cv_tcp-2.2-2.wlan1--1.0.5-B	0 bps	287.825 Mbps	5,256	5,256	2,124	0
cv_tcp-2.2-2.wlan2--1.0.10-A	204.428 Mbps	0 bps	0	2,501	0	0
cv_tcp-2.2-2.wlan2--1.0.10-B	0 bps	204.792 Mbps	2,501	2,501	179	0.038
cv_tcp-2.2-2.wlan4--1.0.15-A	48.8 Mbps	0 bps	0	8,849	0	0
cv_tcp-2.2-2.wlan4--1.0.15-B	0 bps	47.578 Mbps	8,849	8,849	6,630	11.902
cv_tcp-2.2-2.wlan5--1.0.20-A	54.892 Mbps	0 bps	0	4,977	0	0
cv_tcp-2.2-2.wlan5--1.0.20-B	0 bps	55.225 Mbps	4,977	4,977	3,315	0
cv_tcp-2.2-2.wlan6--1.0.25-A	34.816 Mbps	0 bps	0	3,235	0	0
cv_tcp-2.2-2.wlan6--1.0.25-B	0 bps	34.842 Mbps	3,235	3,235	1,051	0

Multi_Sta: Run #2 DL Snapshot 5Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	26.643 Mbps	128.069 Mbps	0	1134.2 Mbps	1.201 Gbps	802.11an-AX	36	112	-43	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	20.236 Mbps	120.758 Mbps	0	1134.2 Mbps	1.201 Gbps	802.11an-AX	36	256	-43	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	18.996 Mbps	51.067 Mbps	0	1134.2 Mbps	960.7 Mbps	802.11an-AX	36	268	-42	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan4	3.972 Mbps	65.644 Mbps	0	907.4 Mbps	720.6 Mbps	802.11an-AX	36	524	-56	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.20 wlan5	5.576 Mbps	73.142 Mbps	0	960.7 Mbps	864.8 Mbps	802.11an-AX	36	289	-56	4C:B1:CD:18:E8:EC	172.18.101.144	e8:f4:08:21:96:84
1.2.21 wlan6	5.293 Mbps	38.391 Mbps	0	960.7 Mbps	864.8 Mbps	802.11an-AX	36	115	-55	4C:B1:CD:18:E8:EC	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.22 wlan8	173.283 Kbps	32.91 Mbps	0	432.3 Mbps	576.4 Mbps	802.11an-AX	36	165	-65	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.23 wlan9	131.308 Kbps	26.806 Mbps	0	432.3 Mbps	432.3 Mbps	802.11an-AX	36	259	-66	4C:B1:CD:18:E8:EC	172.18.101.149	e8:f4:08:03:1d:da

1.2.24 wlan10	225.203 Kbps	39.877 Mbps	0.012	313.4 Mbps	576.4 Mbps	802.11an-AX	36	314	-64	4C:B1:CD:18:E8:EC	172.18.101.148	a4:6b:b6:3e:d6:04
---------------	--------------	-------------	-------	------------	------------	-------------	----	-----	-----	-------------------	----------------	-------------------

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	626.621 Mbps	17.437 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	0 bps	142.485 Mbps	2,778	2,778	1,090	0
cv_tcp-2.2-2.wlan0--1.0.0-B	142.673 Mbps	0 bps	0	2,778	0	0
cv_tcp-2.2-2.wlan1--1.0.5-A	0 bps	143.156 Mbps	994	994	287	0
cv_tcp-2.2-2.wlan1--1.0.5-B	143.098 Mbps	0 bps	0	994	0	0
cv_tcp-2.2-2.wlan2--1.0.10-A	0 bps	59.846 Mbps	1,078	1,078	411	0.854
cv_tcp-2.2-2.wlan2--1.0.10-B	60.208 Mbps	0 bps	0	1,078	0	0
cv_tcp-2.2-2.wlan4--1.0.15-A	0 bps	64.748 Mbps	1,147	1,147	450	0.286
cv_tcp-2.2-2.wlan4--1.0.15-B	65.134 Mbps	0 bps	0	1,147	0	0
cv_tcp-2.2-2.wlan5--1.0.20-A	0 bps	75.696 Mbps	1,906	1,906	856	0
cv_tcp-2.2-2.wlan5--1.0.20-B	75.817 Mbps	0 bps	0	1,906	0	0
cv_tcp-2.2-2.wlan6--1.0.25-A	0 bps	42.083 Mbps	1,085	1,085	387	0
cv_tcp-2.2-2.wlan6--1.0.25-B	42.169 Mbps	0 bps	0	1,085	0	0
cv_tcp-2.2-2.wlan8--1.0.30-A	0 bps	34.341 Mbps	836	836	295	0
cv_tcp-2.2-2.wlan8--1.0.30-B	34.46 Mbps	0 bps	0	836	0	0
cv_tcp-2.2-2.wlan9--1.0.35-A	0 bps	30.573 Mbps	1,102	1,102	448	0
cv_tcp-2.2-2.wlan9--1.0.35-B	30.555 Mbps	0 bps	0	1,102	0	0
cv_tcp-2.2-2.wlan10--1.0.40-A	0 bps	40.321 Mbps	5,576	5,576	1,483	0
cv_tcp-2.2-2.wlan10--1.0.40-B	40.202 Mbps	0 bps	0	5,576	0	0

Multi_Sta: Run #2 UL Snapshot 5Ghz AX

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	129.738 Mbps	38.61 Mbps	0	1134.2 Mbps	1.201 Gbps	802.11an-AX	36	112	-38	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	148.548 Mbps	46.628 Mbps	0	1200.9 Mbps	960.7 Mbps	802.11an-AX	36	256	-41	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	139.597 Mbps	12.776 Mbps	0	960.7 Mbps	1.081 Gbps	802.11an-AX	36	268	-41	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan4	31.301 Mbps	13.455 Mbps	0	960.7 Mbps	864.8 Mbps	802.11an-AX	36	524	-54	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.20 wlan5	29.566 Mbps	16.845 Mbps	0	960.7 Mbps	864.8 Mbps	802.11an-AX	36	289	-54	4C:B1:CD:18:E8:EC	172.18.101.144	e8:f4:08:21:96:84
1.2.21 wlan6	26.965 Mbps	8.864 Mbps	0	864.8 Mbps	960.7 Mbps	802.11an-AX	36	115	-53	4C:B1:CD:18:E8:EC	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.22 wlan8	7.073 Mbps	10.1 Mbps	0	576.4 Mbps	626.9 Mbps	802.11an-AX	36	165	-63	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.23 wlan9	25.481 Mbps	8.909 Mbps	0	432.3 Mbps	432.3 Mbps	802.11an-AX	36	259	-63	4C:B1:CD:18:E8:EC	172.18.101.149	e8:f4:08:03:1d:da
1.2.24 wlan10	16.6 Mbps	8.829 Mbps	0.007	432.3 Mbps	626.9 Mbps	802.11an-AX	36	314	-61	4C:B1:CD:18:E8:EC	172.18.101.148	a4:6b:b6:3e:d6:04

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	142.799 Mbps	606.11 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-2.wlan0--1.0.0-A	153.607 Mbps	0 bps	0	10,301	0	0
cv_tcp-2.2-2.wlan0--1.0.0-B	0 bps	154.594 Mbps	10,301	10,301	585	0
cv_tcp-2.2-2.wlan1--1.0.5-A	213.471 Mbps	0 bps	0	3,312	0	0
cv_tcp-2.2-2.wlan1--1.0.5-B	0 bps	213.84 Mbps	3,312	3,312	740	0
cv_tcp-2.2-2.wlan2--1.0.10-A	196.402 Mbps	0 bps	0	1,663	0	0
cv_tcp-2.2-2.wlan2--1.0.10-B	0 bps	196.052 Mbps	1,663	1,663	240	0
cv_tcp-2.2-2.wlan4--1.0.15-A	35.064 Mbps	0 bps	0	12,554	0	0
cv_tcp-2.2-2.wlan4--1.0.15-B	0 bps	35.385 Mbps	12,554	12,554	3,547	0.721

cv_tcp-2.2-2.wlan5--1.0.20-A	36.598 Mbps	0 bps	0	6,397	0	0
cv_tcp-2.2-2.wlan5--1.0.20-B	0 bps	36.275 Mbps	6,397	6,397	5,361	0.68
cv_tcp-2.2-2.wlan6--1.0.25-A	35.089 Mbps	0 bps	0	3,552	0	0
cv_tcp-2.2-2.wlan6--1.0.25-B	0 bps	34.967 Mbps	3,552	3,552	2,511	0.098
cv_tcp-2.2-2.wlan8--1.0.30-A	10.448 Mbps	0 bps	0	4,199	0	0
cv_tcp-2.2-2.wlan8--1.0.30-B	0 bps	10.484 Mbps	4,199	4,199	1,663	0.579
cv_tcp-2.2-2.wlan9--1.0.35-A	37.949 Mbps	0 bps	0	3,036	0	0
cv_tcp-2.2-2.wlan9--1.0.35-B	0 bps	37.607 Mbps	3,036	3,036	1,468	0
cv_tcp-2.2-2.wlan10--1.0.40-A	21.152 Mbps	0 bps	0	6,863	0	0
cv_tcp-2.2-2.wlan10--1.0.40-B	0 bps	20.984 Mbps	6,863	6,863	7,172	0

Multi_Sta: Run #0 DL Snapshot 2.4Ghz N

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta02000	438.868 Kbps	28.285 Mbps	0	144.4 Mbps	144.4 Mbps	802.11bgn	6	51	-39	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.11 sta02001	382.374 Kbps	28.408 Mbps	0.006	144.4 Mbps	144.4 Mbps	802.11bgn	6	434	-40	4C:B1:CD:18:E8:E8	172.18.101.40	04:f0:21:4b:ba:00
1.1.12 sta02002	398.771 Kbps	28.5 Mbps	0	144.4 Mbps	144.4 Mbps	802.11bgn	6	273	-39	4C:B1:CD:18:E8:E8	172.18.101.75	04:f0:21:4b:a2:00

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	99.248 Mbps	1.129 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta02000--1.0.0-A	0 bps	37.952 Mbps	9,887	9,887	7,030	0
cv_tcp-2.2-1.sta02000--1.0.0-B	37.962 Mbps	0 bps	0	9,887	0	0
cv_tcp-2.2-1.sta02001--1.0.0-A	0 bps	38.951 Mbps	2,006	2,006	529	0
cv_tcp-2.2-1.sta02001--1.0.0-B	38.899 Mbps	0 bps	0	2,006	0	0
cv_tcp-2.2-1.sta02002--1.0.0-A	0 bps	39.55 Mbps	1,886	1,886	241	0
cv_tcp-2.2-1.sta02002--1.0.0-B	39.796 Mbps	0 bps	0	1,886	0	0

Multi_Sta: Run #0 UL Snapshot 2.4Ghz N

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta02000	22.286 Mbps	13.889 Mbps	0	144.4 Mbps	144.4 Mbps	802.11bgn	6	51	-40	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.11 sta02001	22.107 Mbps	13.849 Mbps	0.001	144.4 Mbps	144.4 Mbps	802.11bgn	6	434	-40	4C:B1:CD:18:E8:E8	172.18.101.40	04:f0:21:4b:ba:00
1.1.12 sta02002	21.181 Mbps	15.097 Mbps	0	144.4 Mbps	11 Mbps	802.11bgn	6	273	-40	4C:B1:CD:18:E8:E8	172.18.101.75	04:f0:21:4b:a2:00

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	35.765 Mbps	70.214 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta02000--1.0.0-A	32.258 Mbps	0 bps	0	2,494	0	0
cv_tcp-2.2-1.sta02000--1.0.0-B	0 bps	32.259 Mbps	2,494	2,494	969	0
cv_tcp-2.2-1.sta02001--1.0.0-A	32.162 Mbps	0 bps	0	1,678	0	0
cv_tcp-2.2-1.sta02001--1.0.0-B	0 bps	32.159 Mbps	1,678	1,678	743	0.457
cv_tcp-2.2-1.sta02002--1.0.0-A	32.206 Mbps	0 bps	0	1,342	0	0
cv_tcp-2.2-1.sta02002--1.0.0-B	0 bps	32.154 Mbps	1,342	1,342	515	0

Multi_Sta: Run #1 DL Snapshot 2.4Ghz N

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10	14.059	15.506		144.4	144.4							

sta02000	Mbps	Mbps	0.005	Mbps	Mbps	802.11bgn	6	51	-41	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.11 sta02001	14.008 Mbps	13.599 Mbps	0.001	144.4 Mbps	144.4 Mbps	802.11bgn	6	434	-42	4C:B1:CD:18:E8:E8	172.18.101.40	04:f0:21:4b:ba:00
1.1.12 sta02002	14.057 Mbps	13.534 Mbps	0	144.4 Mbps	144.4 Mbps	802.11bgn	6	273	-40	4C:B1:CD:18:E8:E8	172.18.101.75	04:f0:21:4b:a2:00
1.1.13 sta02500	102.769 Kbps	7.665 Mbps	0	144.4 Mbps	130 Mbps	802.11bgn	6	56	-61	4C:B1:CD:18:E8:E8	172.18.101.184	04:f0:21:36:cd:74
1.1.14 sta02501	108.063 Kbps	6.878 Mbps	0	144.4 Mbps	130 Mbps	802.11bgn	6	248	-61	4C:B1:CD:18:E8:E8	172.18.101.59	04:f0:21:36:f0:74
1.1.15 sta02502	82.108 Kbps	6.64 Mbps	0	130 Mbps	130 Mbps	802.11bgn	6	307	-60	4C:B1:CD:18:E8:E8	172.18.101.189	04:f0:21:36:ed:74

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	68.702 Mbps	38.158 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta02000--1.0.0-A	0 bps	23.677 Mbps	16,957	16,957	3,754	0
cv_tcp-2.2-1.sta02000--1.0.0-B	23.583 Mbps	0 bps	0	16,957	0	0
cv_tcp-2.2-1.sta02001--1.0.0-A	0 bps	22 Mbps	3,556	3,556	842	0
cv_tcp-2.2-1.sta02001--1.0.0-B	22.096 Mbps	0 bps	0	3,556	0	0
cv_tcp-2.2-1.sta02002--1.0.0-A	0 bps	22.551 Mbps	2,166	2,166	442	0.868
cv_tcp-2.2-1.sta02002--1.0.0-B	22.787 Mbps	0 bps	0	2,166	0	0
cv_tcp-2.2-1.sta02500--1.0.5-A	0 bps	13.277 Mbps	2,135	2,135	859	1.025
cv_tcp-2.2-1.sta02500--1.0.5-B	13.488 Mbps	0 bps	0	2,135	0	0
cv_tcp-2.2-1.sta02501--1.0.5-A	0 bps	11.431 Mbps	7,368	7,368	1,404	0
cv_tcp-2.2-1.sta02501--1.0.5-B	11.528 Mbps	0 bps	0	7,368	0	0
cv_tcp-2.2-1.sta02502--1.0.5-A	0 bps	12.195 Mbps	2,191	2,191	869	1.247
cv_tcp-2.2-1.sta02502--1.0.5-B	12.403 Mbps	0 bps	0	2,191	0	0

Multi_Sta: Run #1 UL Snapshot 2.4Ghz N

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta02000	21.769 Mbps	498.531 Kbps	0.006	144.4 Mbps	144.4 Mbps	802.11bgn	6	51	-40	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.11 sta02001	18.375 Mbps	409.311 Kbps	0.003	14.4 Mbps	144.4 Mbps	802.11bgn	6	434	-38	4C:B1:CD:18:E8:E8	0.0.0.0	04:f0:21:4b:ba:00
1.1.12 sta02002	18.241 Mbps	396.629 Kbps	0.007	144.4 Mbps	11 Mbps	802.11bgn	6	273	-38	4C:B1:CD:18:E8:E8	0.0.0.0	04:f0:21:4b:a2:00
1.1.13 sta02500	11.979 Mbps	280.364 Kbps	0	86.7 Mbps	78 Mbps	802.11bgn	6	426	-60	4C:B1:CD:18:E8:E8	172.18.101.184	04:f0:21:36:cd:74
1.1.14 sta02501	11.119 Mbps	247.555 Kbps	0	43.3 Mbps	130 Mbps	802.11bgn	6	1,637	-55	4C:B1:CD:18:E8:E8	172.18.101.59	04:f0:21:36:f0:74
1.1.15 sta02502	10.233 Mbps	235.914 Kbps	0	21.7 Mbps	11 Mbps	802.11bgn	6	159	-54	4C:B1:CD:18:E8:E8	172.18.101.189	04:f0:21:36:ed:74

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	2.188 Mbps	91.324 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta02000--1.0.0-A	23.16 Mbps	0 bps	0	1,066	0	0
cv_tcp-2.2-1.sta02000--1.0.0-B	0 bps	23.36 Mbps	1,066	1,066	486	0
cv_tcp-2.2-1.sta02001--1.0.0-A	17.187 Mbps	0 bps	0	3,496	0	0
cv_tcp-2.2-1.sta02001--1.0.0-B	0 bps	17.259 Mbps	3,496	3,496	1,707	0.215
cv_tcp-2.2-1.sta02002--1.0.0-A	17.071 Mbps	0 bps	0	1,907	0	0
cv_tcp-2.2-1.sta02002--1.0.0-B	0 bps	17.047 Mbps	1,907	1,907	615	0
cv_tcp-2.2-1.sta02500--1.0.5-A	1.169 Mbps	0 bps	0	876	0	0
cv_tcp-2.2-1.sta02500--1.0.5-B	0 bps	963.562 Kbps	876	876	205	1.787
cv_tcp-2.2-1.sta02501--1.0.5-A	10.618 Mbps	0 bps	0	3,124	0	0
cv_tcp-2.2-1.sta02501--1.0.5-B	0 bps	10.592 Mbps	3,124	3,124	1,324	0.172
cv_tcp-2.2-1.sta02502--1.0.5-A	9.941 Mbps	0 bps	0	3,087	0	0

cv_tcp-2.2-1.sta02502--1.0.5-B	0 bps	10.052 Mbps	3,087	3,087	425	0
--------------------------------	-------	-------------	-------	-------	-----	---

Multi_Sta: Run #2 DL Snapshot 2.4Ghz N

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta02000	3.594 Mbps	14.018 Mbps	0.007	115.6 Mbps	11 Mbps	802.11bgn	6	51	-38	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.11 sta02001	263.54 Kbps	15.116 Mbps	0.003	144.4 Mbps	11 Mbps	802.11bgn	6	831	-40	4C:B1:CD:18:E8:E8	172.18.101.40	04:f0:21:4b:ba:00
1.1.12 sta02002	269.294 Kbps	13.776 Mbps	0.006	130 Mbps	144.4 Mbps	802.11bgn	6	341	-42	4C:B1:CD:18:E8:E8	172.18.101.75	04:f0:21:4b:a2:00
1.1.13 sta02500	1.518 Mbps	8.622 Mbps	0.001	130 Mbps	130 Mbps	802.11bgn	6	426	-61	4C:B1:CD:18:E8:E8	172.18.101.184	04:f0:21:36:cd:74
1.1.14 sta02501	255.179 Kbps	7.586 Mbps	0	144.4 Mbps	130 Mbps	802.11bgn	6	1,637	-61	4C:B1:CD:18:E8:E8	172.18.101.59	04:f0:21:36:f0:74
1.1.15 sta02502	341.578 Kbps	7.583 Mbps	0	144.4 Mbps	130 Mbps	802.11bgn	6	159	-61	4C:B1:CD:18:E8:E8	172.18.101.189	04:f0:21:36:ed:74
1.1.16 sta03000	42.196 Kbps	2.249 Mbps	17.318	6.5 Mbps	11 Mbps	802.11bgn	6	229	-80	4C:B1:CD:18:E8:E8	172.18.101.187	04:f0:21:4b:b8:f9
1.1.17 sta03001	49.675 Kbps	2.548 Mbps	12.112	6.5 Mbps	58.5 Mbps	802.11bgn	6	225	-77	4C:B1:CD:18:E8:E8	172.18.101.190	04:f0:21:4b:ab:f9
1.1.18 sta03002	50.948 Kbps	2.268 Mbps	20.736	6.5 Mbps	57.8 Mbps	802.11bgn	6	235	-74	4C:B1:CD:18:E8:E8	172.18.101.188	04:f0:21:4b:90:f9

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	74.492 Mbps	9.013 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta02000--1.0.0-A	0 bps	14.029 Mbps	7,133	7,133	2,504	0
cv_tcp-2.2-1.sta02000--1.0.0-B	14.1 Mbps	0 bps	0	7,133	0	0
cv_tcp-2.2-1.sta02001--1.0.0-A	0 bps	15.308 Mbps	7,846	7,846	5,033	0.22
cv_tcp-2.2-1.sta02001--1.0.0-B	15.32 Mbps	0 bps	0	7,846	0	0
cv_tcp-2.2-1.sta02002--1.0.0-A	0 bps	13.971 Mbps	11,946	11,946	7,006	0
cv_tcp-2.2-1.sta02002--1.0.0-B	14.015 Mbps	0 bps	0	11,946	0	0
cv_tcp-2.2-1.sta02500--1.0.5-A	0 bps	9.792 Mbps	6,318	6,318	3,070	0
cv_tcp-2.2-1.sta02500--1.0.5-B	9.757 Mbps	0 bps	0	6,318	0	0
cv_tcp-2.2-1.sta02501--1.0.5-A	0 bps	8.837 Mbps	4,087	4,087	1,482	0
cv_tcp-2.2-1.sta02501--1.0.5-B	8.748 Mbps	0 bps	0	4,087	0	0
cv_tcp-2.2-1.sta02502--1.0.5-A	0 bps	9.228 Mbps	3,467	3,467	741	0
cv_tcp-2.2-1.sta02502--1.0.5-B	9.179 Mbps	0 bps	0	3,467	0	0
cv_tcp-2.2-1.sta03000--1.0.10-A	0 bps	2.952 Mbps	4,148	4,148	1,903	0
cv_tcp-2.2-1.sta03000--1.0.10-B	3.013 Mbps	0 bps	0	4,148	0	0
cv_tcp-2.2-1.sta03001--1.0.10-A	0 bps	3.304 Mbps	8,079	8,079	5,051	0
cv_tcp-2.2-1.sta03001--1.0.10-B	3.375 Mbps	0 bps	0	8,079	0	0
cv_tcp-2.2-1.sta03002--1.0.10-A	0 bps	2.779 Mbps	11,462	11,462	16,620	4.274
cv_tcp-2.2-1.sta03002--1.0.10-B	2.924 Mbps	0 bps	0	11,462	0	0

Multi_Sta: Run #2 UL Snapshot 2.4Ghz N

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta02000	12.188 Mbps	3.044 Mbps	0.006	144.4 Mbps	130 Mbps	802.11bgn	6	51	-39	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.11 sta02001	12.441 Mbps	4.049 Mbps	0.002	144.4 Mbps	78 Mbps	802.11bgn	6	831	-39	4C:B1:CD:18:E8:E8	172.18.101.40	04:f0:21:4b:ba:00
1.1.12 sta02002	12.093 Mbps	3.75 Mbps	0.005	144.4 Mbps	72.2 Mbps	802.11bgn	6	341	-38	4C:B1:CD:18:E8:E8	172.18.101.75	04:f0:21:4b:a2:00
1.1.13 sta02500	7.791 Mbps	2.781 Mbps	0.001	144.4 Mbps	21.7 Mbps	802.11bgn	6	426	-58	4C:B1:CD:18:E8:E8	172.18.101.184	04:f0:21:36:cd:74
1.1.14	6.726	2.669		144.4	104							

sta02501	Mbps	Mbps	0.032	Mbps	Mbps	802.11bgn6	1,637	-60	4C:B1:CD:18:E8:E8	172.18.101.59	04:f0:21:36:f0:74
1.1.15 sta02502	7.179 Mbps	2.803 Mbps	0.001	144.4 Mbps	57.8 Mbps	802.11bgn6	159	-61	4C:B1:CD:18:E8:E8	172.18.101.189	04:f0:21:36:ed:74
1.1.16 sta03000	414.819 Kbps	822.633 Kbps	14.989	13 Mbps	39 Mbps	802.11bgn6	229	-61	4C:B1:CD:18:E8:E8	172.18.101.187	04:f0:21:4b:b8:f9
1.1.17 sta03001	322.364 Kbps	970.075 Kbps	12.641	13 Mbps	26 Mbps	802.11bgn6	225	-67	4C:B1:CD:18:E8:E8	172.18.101.190	04:f0:21:4b:ab:f9
1.1.18 sta03002	497.772 Kbps	855.646 Kbps	16.332	13 Mbps	43.3 Mbps	802.11bgn6	235	-65	4C:B1:CD:18:E8:E8	172.18.101.188	04:f0:21:4b:90:f9

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	21.974 Mbps	58.66 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta02000--1.0.0-A	14.375 Mbps	0 bps	0	5,545	0	0
cv_tcp-2.2-1.sta02000--1.0.0-B	0 bps	14.369 Mbps	5,545	5,545	1,164	0
cv_tcp-2.2-1.sta02001--1.0.0-A	15.735 Mbps	0 bps	0	3,534	0	0
cv_tcp-2.2-1.sta02001--1.0.0-B	0 bps	15.666 Mbps	3,534	3,534	540	0.378
cv_tcp-2.2-1.sta02002--1.0.0-A	15.157 Mbps	0 bps	0	2,845	0	0
cv_tcp-2.2-1.sta02002--1.0.0-B	0 bps	15.209 Mbps	2,845	2,845	523	0
cv_tcp-2.2-1.sta02500--1.0.5-A	10.103 Mbps	0 bps	0	4,200	0	0
cv_tcp-2.2-1.sta02500--1.0.5-B	0 bps	10.153 Mbps	4,200	4,200	946	0
cv_tcp-2.2-1.sta02501--1.0.5-A	9.034 Mbps	0 bps	0	3,136	0	0
cv_tcp-2.2-1.sta02501--1.0.5-B	0 bps	9.056 Mbps	3,136	3,136	1,076	0.75
cv_tcp-2.2-1.sta02502--1.0.5-A	9.857 Mbps	0 bps	0	3,373	0	0
cv_tcp-2.2-1.sta02502--1.0.5-B	0 bps	9.819 Mbps	3,373	3,373	2,278	0
cv_tcp-2.2-1.sta03000--1.0.10-A	487.332 Kbps	0 bps	0	10,596	0	0
cv_tcp-2.2-1.sta03000--1.0.10-B	0 bps	488.805 Kbps	10,596	10,596	3,508	1.724
cv_tcp-2.2-1.sta03001--1.0.10-A	383.538 Kbps	0 bps	0	17,158	0	0
cv_tcp-2.2-1.sta03001--1.0.10-B	0 bps	381.116 Kbps	17,158	17,158	4,679	0
cv_tcp-2.2-1.sta03002--1.0.10-A	624.282 Kbps	0 bps	0	10,502	0	0
cv_tcp-2.2-1.sta03002--1.0.10-B	0 bps	621.382 Kbps	10,502	10,502	1,434	4

Multi_Sta: Run #0 DL Snapshot 5Ghz AC

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	1.895 Mbps	203.733 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an-AC	36	224	-45	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.11 sta01501	1.677 Mbps	169.06 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an-AC	36	27	-45	4C:B1:CD:18:E8:EC	172.18.101.54	04:f0:21:38:91:f0
1.1.12 sta01502	1.761 Mbps	182.237 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an-AC	36	24	-44	4C:B1:CD:18:E8:EC	172.18.101.3	04:f0:21:38:9c:f0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	675.916 Mbps	5.265 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	244.275 Mbps	2,426	2,426	1,016	0
cv_tcp-2.2-1.sta01500--1.0.0-B	244.503 Mbps	0 bps	0	2,426	0	0
cv_tcp-2.2-1.sta01501--1.0.0-A	0 bps	245.851 Mbps	525	525	264	0.485
cv_tcp-2.2-1.sta01501--1.0.0-B	245.997 Mbps	0 bps	0	525	0	0
cv_tcp-2.2-1.sta01502--1.0.0-A	0 bps	239.263 Mbps	454	454	120	0
cv_tcp-2.2-1.sta01502--1.0.0-B	239.855 Mbps	0 bps	0	454	0	0

Multi_Sta: Run #0 UL Snapshot 5Ghz AC

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
------	-----------	----------	-----------	--------------	--------------	------	---------	------------------	------------	----	----	-----

			%	Rate	Rate							
1.1.10 sta01500	161.627 Mbps	84.508 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	224	-44	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.11 sta01501	112.599 Mbps	89.64 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	27	-44	4C:B1:CD:18:E8:EC	172.18.101.54	04:f0:21:38:91:f0
1.1.12 sta01502	181.646 Mbps	89.075 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	24	-44	4C:B1:CD:18:E8:EC	172.18.101.3	04:f0:21:38:9c:f0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	183.625 Mbps	525.236 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	234.945 Mbps	0 bps	0	1,054	0	0
cv_tcp-2.2-1.sta01500--1.0.0-B	0 bps	234.903 Mbps	1,054	1,054	227	0
cv_tcp-2.2-1.sta01501--1.0.0-A	163.043 Mbps	0 bps	0	1,019	0	0
cv_tcp-2.2-1.sta01501--1.0.0-B	0 bps	162.713 Mbps	1,019	1,019	105	0.021
cv_tcp-2.2-1.sta01502--1.0.0-A	276.398 Mbps	0 bps	0	959	0	0
cv_tcp-2.2-1.sta01502--1.0.0-B	0 bps	276.706 Mbps	959	959	45	0

Multi_Sta: Run #1 DL Snapshot 5Ghz AC

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	101.455 Mbps	73.814 Mbps	0.001	866.7 Mbps	866.7 Mbps	802.11an- AC	36	224	-45	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.11 sta01501	63.222 Mbps	92.318 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	27	-44	4C:B1:CD:18:E8:EC	172.18.101.54	04:f0:21:38:91:f0
1.1.12 sta01502	120.675 Mbps	64.333 Mbps	0.002	780 Mbps	866.7 Mbps	802.11an- AC	36	24	-43	4C:B1:CD:18:E8:EC	172.18.101.3	04:f0:21:38:9c:f0
1.1.13 sta02000	811.677 Kbps	76.056 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	63	-57	4C:B1:CD:18:E8:EC	172.18.101.120	04:f0:21:3a:7b:c0
1.1.14 sta02001	708.574 Kbps	71.514 Mbps	0	780 Mbps	866.7 Mbps	802.11an- AC	36	48	-55	4C:B1:CD:18:E8:EC	172.18.101.72	04:f0:21:3a:47:c0
1.1.15 sta02002	592.81 Kbps	58.652 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	47	-57	4C:B1:CD:18:E8:EC	172.18.101.193	04:f0:21:3a:55:c0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	489.629 Mbps	232.296 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	113.196 Mbps	5,781	5,781	1,002	0
cv_tcp-2.2-1.sta01500--1.0.0-B	113.175 Mbps	0 bps	0	5,781	0	0
cv_tcp-2.2-1.sta01501--1.0.0-A	0 bps	140.895 Mbps	2,493	2,493	1,393	0
cv_tcp-2.2-1.sta01501--1.0.0-B	140.857 Mbps	0 bps	0	2,493	0	0
cv_tcp-2.2-1.sta01502--1.0.0-A	0 bps	102.249 Mbps	1,364	1,364	630	0
cv_tcp-2.2-1.sta01502--1.0.0-B	102.243 Mbps	0 bps	0	1,364	0	0
cv_tcp-2.2-1.sta02000--1.0.5-A	0 bps	119.451 Mbps	1,087	1,087	958	0.086
cv_tcp-2.2-1.sta02000--1.0.5-B	119.423 Mbps	0 bps	0	1,087	0	0
cv_tcp-2.2-1.sta02001--1.0.5-A	0 bps	121.922 Mbps	791	791	347	0
cv_tcp-2.2-1.sta02001--1.0.5-B	121.451 Mbps	0 bps	0	791	0	0
cv_tcp-2.2-1.sta02002--1.0.5-A	0 bps	111.658 Mbps	447	447	223	0
cv_tcp-2.2-1.sta02002--1.0.5-B	111.665 Mbps	0 bps	0	447	0	0

Multi_Sta: Run #1 UL Snapshot 5Ghz AC

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	145.938 Mbps	1.936 Mbps	0.001	780 Mbps	866.7 Mbps	802.11an- AC	36	224	-44	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.11	93.971	1.233		866.7	866.7	802.11an-						

sta01501	Mbps	Mbps	0.001	Mbps	Mbps	AC	36	27	-42	4C:B1:CD:18:E8:EC	172.18.101.54	04:f0:21:38:91:f0
1.1.12 sta01502	102.327 Mbps	1.399 Mbps	0.002	866.7 Mbps	866.7 Mbps	802.11an- AC	36	24	-44	4C:B1:CD:18:E8:EC	172.18.101.3	04:f0:21:38:9c:f0
1.1.13 sta02000	110.417 Mbps	1.423 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	63	-53	4C:B1:CD:18:E8:EC	172.18.101.120	04:f0:21:3a:7b:c0
1.1.14 sta02001	102.194 Mbps	1.409 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	48	-53	4C:B1:CD:18:E8:EC	172.18.101.72	04:f0:21:3a:47:c0
1.1.15 sta02002	146.487 Mbps	2.215 Mbps	0	866.7 Mbps	866.7 Mbps	802.11an- AC	36	47	-53	4C:B1:CD:18:E8:EC	172.18.101.193	04:f0:21:3a:55:c0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	10.155 Mbps	698.063 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	133.839 Mbps	0 bps	0	2,792	0	0
cv_tcp-2.2-1.sta01500--1.0.0-B	0 bps	133.714 Mbps	2,792	2,792	1,619	0.051
cv_tcp-2.2-1.sta01501--1.0.0-A	91.551 Mbps	0 bps	0	3,620	0	0
cv_tcp-2.2-1.sta01501--1.0.0-B	0 bps	91.368 Mbps	3,620	3,620	1,225	0
cv_tcp-2.2-1.sta01502--1.0.0-A	98.96 Mbps	0 bps	0	2,618	0	0
cv_tcp-2.2-1.sta01502--1.0.0-B	0 bps	99.036 Mbps	2,618	2,618	164	0
cv_tcp-2.2-1.sta02000--1.0.5-A	106.911 Mbps	0 bps	0	3,465	0	0
cv_tcp-2.2-1.sta02000--1.0.5-B	0 bps	106.458 Mbps	3,465	3,465	1,731	0
cv_tcp-2.2-1.sta02001--1.0.5-A	96.16 Mbps	0 bps	0	1,802	0	0
cv_tcp-2.2-1.sta02001--1.0.5-B	0 bps	96.273 Mbps	1,802	1,802	1,285	0
cv_tcp-2.2-1.sta02002--1.0.5-A	140.024 Mbps	0 bps	0	2,547	0	0
cv_tcp-2.2-1.sta02002--1.0.5-B	0 bps	140.171 Mbps	2,547	2,547	1,202	0

Multi_Sta: Run #2 DL Snapshot 5Ghz AC

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	9.985 Mbps	64.304 Mbps	0.004	780 Mbps	866.7 Mbps	802.11an- AC	36	224	-44	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.11 sta01501	6.446 Mbps	58.177 Mbps	0.006	866.7 Mbps	866.7 Mbps	802.11an- AC	36	27	-43	4C:B1:CD:18:E8:EC	172.18.101.54	04:f0:21:38:91:f0
1.1.12 sta01502	8.955 Mbps	89.426 Mbps	0.008	780 Mbps	866.7 Mbps	802.11an- AC	36	24	-44	4C:B1:CD:18:E8:EC	172.18.101.3	04:f0:21:38:9c:f0
1.1.13 sta02000	14.277 Mbps	89.62 Mbps	0	780 Mbps	866.7 Mbps	802.11an- AC	36	63	-57	4C:B1:CD:18:E8:EC	172.18.101.120	04:f0:21:3a:7b:c0
1.1.14 sta02001	12.273 Mbps	62.518 Mbps	0.003	866.7 Mbps	866.7 Mbps	802.11an- AC	36	48	-55	4C:B1:CD:18:E8:EC	172.18.101.72	04:f0:21:3a:47:c0
1.1.15 sta02002	20.206 Mbps	74.378 Mbps	0	866.7 Mbps	24 Mbps	802.11an- AC	36	47	-54	4C:B1:CD:18:E8:EC	172.18.101.193	04:f0:21:3a:55:c0
1.1.16 sta02500	656.92 Kbps	66.773 Mbps	0.016	780 Mbps	866.7 Mbps	802.11an- AC	36	43	-66	4C:B1:CD:18:E8:EC	172.18.101.191	04:f0:21:3a:41:c1
1.1.17 sta02501	647.714 Kbps	52.633 Mbps	0.024	780 Mbps	866.7 Mbps	802.11an- AC	36	51	-65	4C:B1:CD:18:E8:EC	172.18.101.192	04:f0:21:3a:59:c1
1.1.18 sta02502	542.928 Kbps	56.721 Mbps	0.022	866.7 Mbps	866.7 Mbps	802.11an- AC	36	62	-65	4C:B1:CD:18:E8:EC	172.18.101.194	04:f0:21:3a:79:c1

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	651.242 Mbps	53.364 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	0 bps	61.812 Mbps	9,384	9,384	3,212	0
cv_tcp-2.2-1.sta01500--1.0.0-B	61.861 Mbps	0 bps	0	9,384	0	0
cv_tcp-2.2-1.sta01501--1.0.0-A	0 bps	64.075 Mbps	733	733	71	0
cv_tcp-2.2-1.sta01501--1.0.0-B	64.453 Mbps	0 bps	0	733	0	0
cv_tcp-2.2-1.sta01502--1.0.0-A	0 bps	94.977 Mbps	2,934	2,934	861	0
cv_tcp-2.2-1.sta01502--1.0.0-B	95.371 Mbps	0 bps	0	2,934	0	0
cv_tcp-2.2-1.sta02000--1.0.5-A	0 bps	106.903 Mbps	698	698	393	0

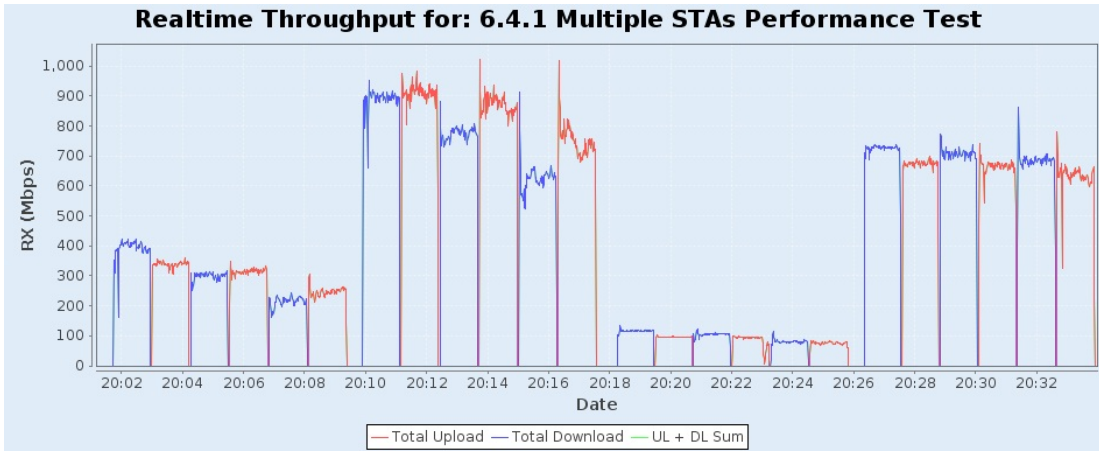
cv_tcp-2.2-1.sta02000--1.0.5-B	106.588 Mbps	0 bps	0	698	0	0
cv_tcp-2.2-1.sta02001--1.0.5-A	0 bps	71.752 Mbps	550	550	171	0
cv_tcp-2.2-1.sta02001--1.0.5-B	71.897 Mbps	0 bps	0	550	0	0
cv_tcp-2.2-1.sta02002--1.0.5-A	0 bps	81.643 Mbps	3,916	3,916	1,635	0
cv_tcp-2.2-1.sta02002--1.0.5-B	81.811 Mbps	0 bps	0	3,916	0	0
cv_tcp-2.2-1.sta02500--1.0.10-A	0 bps	87.924 Mbps	1,187	1,187	357	0
cv_tcp-2.2-1.sta02500--1.0.10-B	88.281 Mbps	0 bps	0	1,187	0	0
cv_tcp-2.2-1.sta02501--1.0.10-A	0 bps	53.85 Mbps	1,753	1,753	821	0
cv_tcp-2.2-1.sta02501--1.0.10-B	54.298 Mbps	0 bps	0	1,753	0	0
cv_tcp-2.2-1.sta02502--1.0.10-A	0 bps	62.15 Mbps	1,234	1,234	355	0
cv_tcp-2.2-1.sta02502--1.0.10-B	62.36 Mbps	0 bps	0	1,234	0	0

Multi_Sta: Run #2 UL Snapshot 5Ghz AC

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	54.228 Mbps	14.681 Mbps	0.005	780 Mbps	780 Mbps	802.11an-AC	36	224	-44	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.11 sta01501	54.812 Mbps	17.026 Mbps	0.011	866.7 Mbps	780 Mbps	802.11an-AC	36	27	-43	4C:B1:CD:18:E8:EC	172.18.101.54	04:f0:21:38:91:f0
1.1.12 sta01502	49.184 Mbps	22.279 Mbps	0.009	866.7 Mbps	866.7 Mbps	802.11an-AC	36	24	-43	4C:B1:CD:18:E8:EC	172.18.101.3	04:f0:21:38:9c:f0
1.1.13 sta02000	54.943 Mbps	31.756 Mbps	0	650 Mbps	866.7 Mbps	802.11an-AC	36	63	-52	4C:B1:CD:18:E8:EC	172.18.101.120	04:f0:21:3a:7b:c0
1.1.14 sta02001	51.285 Mbps	18.187 Mbps	0.002	780 Mbps	866.7 Mbps	802.11an-AC	36	48	-51	4C:B1:CD:18:E8:EC	172.18.101.72	04:f0:21:3a:47:c0
1.1.15 sta02002	50.451 Mbps	20.983 Mbps	0	780 Mbps	866.7 Mbps	802.11an-AC	36	47	-52	4C:B1:CD:18:E8:EC	172.18.101.193	04:f0:21:3a:55:c0
1.1.16 sta02500	39.629 Mbps	22.282 Mbps	0.003	866.7 Mbps	780 Mbps	802.11an-AC	36	43	-61	4C:B1:CD:18:E8:EC	172.18.101.191	04:f0:21:3a:41:c1
1.1.17 sta02501	84.062 Mbps	19.484 Mbps	0.003	866.7 Mbps	866.7 Mbps	802.11an-AC	36	51	-61	4C:B1:CD:18:E8:EC	172.18.101.192	04:f0:21:3a:59:c1
1.1.18 sta02502	47.456 Mbps	23.53 Mbps	0.004	780 Mbps	866.7 Mbps	802.11an-AC	36	62	-62	4C:B1:CD:18:E8:EC	172.18.101.194	04:f0:21:3a:79:c1

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
1.2.2 eth2	174.816 Mbps	497.965 Mbps	2.5 Gbps	172.18.0.1	9c:69:b4:61:c6:12

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_tcp-2.2-1.sta01500--1.0.0-A	63.269 Mbps	0 bps	0	3,406	0	0
cv_tcp-2.2-1.sta01500--1.0.0-B	0 bps	63.353 Mbps	3,406	3,406	865	0
cv_tcp-2.2-1.sta01501--1.0.0-A	66.657 Mbps	0 bps	0	4,428	0	0
cv_tcp-2.2-1.sta01501--1.0.0-B	0 bps	67.006 Mbps	4,428	4,428	570	0
cv_tcp-2.2-1.sta01502--1.0.0-A	67.247 Mbps	0 bps	0	1,863	0	0
cv_tcp-2.2-1.sta01502--1.0.0-B	0 bps	66.669 Mbps	1,863	1,863	1,142	0
cv_tcp-2.2-1.sta02000--1.0.5-A	69.179 Mbps	0 bps	0	6,628	0	0
cv_tcp-2.2-1.sta02000--1.0.5-B	0 bps	69.362 Mbps	6,628	6,628	638	0.025
cv_tcp-2.2-1.sta02001--1.0.5-A	70.467 Mbps	0 bps	0	4,157	0	0
cv_tcp-2.2-1.sta02001--1.0.5-B	0 bps	70.809 Mbps	4,157	4,157	2,144	0
cv_tcp-2.2-1.sta02002--1.0.5-A	70.607 Mbps	0 bps	0	3,295	0	0
cv_tcp-2.2-1.sta02002--1.0.5-B	0 bps	70.259 Mbps	3,295	3,295	1,461	0
cv_tcp-2.2-1.sta02500--1.0.10-A	57.96 Mbps	0 bps	0	3,192	0	0
cv_tcp-2.2-1.sta02500--1.0.10-B	0 bps	57.563 Mbps	3,192	3,192	1,125	0.03
cv_tcp-2.2-1.sta02501--1.0.10-A	112.413 Mbps	0 bps	0	6,457	0	0
cv_tcp-2.2-1.sta02501--1.0.10-B	0 bps	112.586 Mbps	6,457	6,457	7,597	2.22
cv_tcp-2.2-1.sta02502--1.0.10-A	55.919 Mbps	0 bps	0	7,979	0	0
cv_tcp-2.2-1.sta02502--1.0.10-B	0 bps	56.011 Mbps	7,979	7,979	5,237	0.087



6.4.2 Multiple Association / Disassociation Stability Test

Summary

Multiple association / disassociation stability test intends to measure stability of Wi-Fi device under a dynamic environment with frequent change of connection status.

Test Procedure

These steps are done for 2.4Ghz and 5Ghz.

1. Configure the system to emulate a 2-meter distance.
2. Establish the LAN connection, create 16 stations and associate all 16 to the DUT.
3. 8 STAs are picked for sending/receiving packets while the other 8 STAs are picked to do a dis-association/re-association process during the test.
4. Enable downlink UDP flow (4 Mbps @2.4GHz and 8 Mbps @5GHz) from DUT to each of the 8 traffic stations.
5. Continue monitoring the traffic flow of each STA by recording the UDP flow rate every second.
6. Disassociate the other 8 stations. Wait for 30 seconds. Re-associate the STAs simultaneously.

Pass/Fail Criteria

The disassociation/association does not affect the performance of other peer STAs:

1. UDP traffic rate is at least 99% of the configured rate for each STA.
The user may configure this to a lower percentage.
2. UDP packet loss must be less than 0.01%

Candela Score

The Candela Score for Association / Disassociation Test is calculated as the percentage of passing sub-tests.

6.4.2 Multiple Association / Disassociation Stability Test Results

Type	Result	Notes
AX 2.4Ghz CX: cv_udp-2.2-2.wlan0--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 3.99 Mbps
AX 2.4Ghz CX: cv_udp-2.2-2.wlan1--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
AX 2.4Ghz CX: cv_udp-2.2-2.wlan2--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
AX 2.4Ghz CX: cv_udp-2.2-2.wlan3--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
AX 2.4Ghz CX: cv_udp-2.2-2.wlan4--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
AX 2.4Ghz CX: cv_udp-2.2-2.wlan5--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
AX 2.4Ghz CX: cv_udp-2.2-2.wlan6--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
AX 2.4Ghz CX: cv_udp-2.2-2.wlan7--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
AX 2.4Ghz CX: cv_udp-2.2-2.wlan0--1.0.0 1/2 STA Down	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps

N 2.4Ghz CX: cv_udp-2.2-1.sta01501--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
N 2.4Ghz CX: cv_udp-2.2-1.sta01502--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
N 2.4Ghz CX: cv_udp-2.2-1.sta01503--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
N 2.4Ghz CX: cv_udp-2.2-1.sta01504--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
N 2.4Ghz CX: cv_udp-2.2-1.sta01505--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
N 2.4Ghz CX: cv_udp-2.2-1.sta01506--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
N 2.4Ghz CX: cv_udp-2.2-1.sta01507--1.0.0 All STA Up	PASS	Requires: 3.96 Mbps Reported: 4.00 Mbps
Assoc/Disassoc N 2.4Ghz	PASS	
AC 5Ghz CX: cv_udp-2.2-1.sta01000--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 7.99 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01001--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01002--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01003--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01004--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01005--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01006--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01007--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01000--1.0.0 1/2 STA Down	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01001--1.0.0 1/2 STA Down	PASS	Requires: 7.92 Mbps Reported: 8.02 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01002--1.0.0 1/2 STA Down	PASS	Requires: 7.92 Mbps Reported: 8.01 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01003--1.0.0 1/2 STA Down	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01004--1.0.0 1/2 STA Down	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01005--1.0.0 1/2 STA Down	PASS	Requires: 7.92 Mbps Reported: 7.99 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01006--1.0.0 1/2 STA Down	PASS	Requires: 7.92 Mbps Reported: 8.01 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01007--1.0.0 1/2 STA Down	PASS	Requires: 7.92 Mbps Reported: 8.01 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01000--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.01 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01001--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01002--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01003--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01004--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01005--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.01 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01006--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01007--1.0.0 All STA Up	PASS	Requires: 7.92 Mbps Reported: 8.00 Mbps
AC 5Ghz CX: cv_udp-2.2-1.sta01001--1.0.0	FAIL	Requires drop-prcnt = 0.01%, Reported: 0.0115
Assoc/Disassoc AC 5Ghz	PASS	

Assoc/Disassoc: Snapshot AX 2.4Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link- Rate	Rx-Link- Rate	Mode	Channel	Last CX- Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	35 bps	3.855 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn- AX	6	181	-31	4C:B1:CD:18:E8:E8	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	25 bps	3.859 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn- AX	6	210	-31	4C:B1:CD:18:E8:E8	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	26 bps	4.104 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn- AX	6	154	-32	4C:B1:CD:18:E8:E8	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan3	25 bps	3.928 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn- AX	6	139	-32	4C:B1:CD:18:E8:E8	172.18.101.146	d8:f8:83:36:6b:d6
1.2.20 wlan4	25 bps	3.839 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn- AX	6	245	-38	4C:B1:CD:18:E8:E8	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.21 wlan5	25 bps	3.839 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn- AX	6	227	-38	4C:B1:CD:18:E8:E8	172.18.101.144	e8:f4:08:21:96:84
1.2.22 wlan6	188 bps	3.382 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn- AX	6	185	-36	4C:B1:CD:18:E8:E8	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.23 wlan7	20 bps	4.114 Mbps	0	117 Mbps	573.5 Mbps	802.11bgn- AX	6	189	-38	4C:B1:CD:18:E8:E8	172.18.101.145	e8:f4:08:03:1e:3e
1.2.24 wlan8	291 bps	128 bps	0	117 Mbps	299.4 Mbps	802.11bgn- AX	6	118	-34	4C:B1:CD:18:E8:E8	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.25 wlan9	271 bps	127 bps	0	117 Mbps	299.4 Mbps	802.11bgn- AX	6	233	-33	4C:B1:CD:18:E8:E8	172.18.101.149	e8:f4:08:03:1d:da
1.2.26	272		0	117	11	802.11bgn-	6	165	-33	4C:B1:CD:18:E8:E8	172.18.101.148	a4:6b:b6:3e:d6:04

wlan10	bps	139 bps		Mbps	Mbps	AX						
1.2.27 wlan11	272 bps	139 bps	0	117 Mbps	299.4 Mbps	802.11bgn- AX	6	188	-33	4C:B1:CD:18:E8:E8	172.18.101.150	e8:f4:08:1f:7b:88
1.3.28 wlan0	272 bps	146 bps	0	117 Mbps	299.4 Mbps	802.11bgn- AX	6	180	-37	4C:B1:CD:18:E8:E8	172.18.101.156	e8:f4:08:03:1e:ac
1.3.29 wlan5	273 bps	163 bps	0	117 Mbps	299.4 Mbps	802.11bgn- AX	6	144	-34	4C:B1:CD:18:E8:E8	172.18.101.160	e8:f4:08:02:55:a3
1.3.30 wlan10	273 bps	134 bps	0	117 Mbps	299.4 Mbps	802.11bgn- AX	6	159	-37	4C:B1:CD:18:E8:E8	172.18.101.151	e8:f4:08:1f:9a:82
1.3.31 wlan15	266 bps	128 bps	0	117 Mbps	299.4 Mbps	802.11bgn- AX	6	169	-37	4C:B1:CD:18:E8:E8	172.18.101.159	e8:f4:08:02:58:a5

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
------	-----------	-----------	-----------	----	-----

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-2.wlan0--1.0.0-A	0 bps	3.733 Mbps	2	2	1	0
cv_udp-2.2-2.wlan0--1.0.0-B	3.733 Mbps	0 bps	0	2	0	0
cv_udp-2.2-2.wlan1--1.0.0-A	0 bps	3.741 Mbps	2	2	1	0
cv_udp-2.2-2.wlan1--1.0.0-B	3.741 Mbps	0 bps	0	2	0	0
cv_udp-2.2-2.wlan2--1.0.0-A	0 bps	3.746 Mbps	2	2	0	0.003
cv_udp-2.2-2.wlan2--1.0.0-B	3.746 Mbps	0 bps	0	2	0	0
cv_udp-2.2-2.wlan3--1.0.0-A	0 bps	3.761 Mbps	1	1	1	0
cv_udp-2.2-2.wlan3--1.0.0-B	3.761 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan4--1.0.0-A	0 bps	3.766 Mbps	1	1	0	0.006
cv_udp-2.2-2.wlan4--1.0.0-B	3.766 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan5--1.0.0-A	0 bps	3.781 Mbps	1	1	0	0
cv_udp-2.2-2.wlan5--1.0.0-B	3.781 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan6--1.0.0-A	0 bps	3.792 Mbps	1	1	0	0.003
cv_udp-2.2-2.wlan6--1.0.0-B	3.791 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan7--1.0.0-A	0 bps	3.731 Mbps	1	1	0	0
cv_udp-2.2-2.wlan7--1.0.0-B	3.769 Mbps	0 bps	0	1	0	0

Assoc/Disassoc: Snapshot AX 5Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.2.16 wlan0	25 bps	8.152 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	263	-45	4C:B1:CD:18:E8:EC	172.18.101.134	d8:f8:83:35:db:e9
1.2.17 wlan1	25 bps	7.762 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	232	-43	4C:B1:CD:18:E8:EC	172.18.101.147	d8:f8:83:35:ba:bf
1.2.18 wlan2	27 bps	8.228 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	194	-44	4C:B1:CD:18:E8:EC	172.18.101.143	d8:f8:83:36:54:f7
1.2.19 wlan3	28 bps	8.228 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	232	-44	4C:B1:CD:18:E8:EC	172.18.101.146	d8:f8:83:36:6b:d6
1.2.20 wlan4	28 bps	8.229 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	270	-43	4C:B1:CD:18:E8:EC	172.18.101.135	a4:6b:b6:3d:61:4d
1.2.21 wlan5	27 bps	8.229 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	210	-45	4C:B1:CD:18:E8:EC	172.18.101.144	e8:f4:08:21:96:84
1.2.22 wlan6	28 bps	8.229 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	155	-42	4C:B1:CD:18:E8:EC	172.18.101.142	a4:6b:b6:3d:d5:ec
1.2.23 wlan7	27 bps	8.229 Mbps	0	245 Mbps	1.201 Gbps	802.11an-AX	36	378	-44	4C:B1:CD:18:E8:EC	172.18.101.145	e8:f4:08:03:1e:3e
1.2.24 wlan8	269 bps	114 bps	0	245 Mbps	626.9 Mbps	802.11an-AX	36	118	-44	4C:B1:CD:18:E8:EC	172.18.101.136	e8:f4:08:1f:9b:c2
1.2.25 wlan9	258 bps	113 bps	0	245 Mbps	626.9 Mbps	802.11an-AX	36	212	-44	4C:B1:CD:18:E8:EC	172.18.101.149	e8:f4:08:03:1d:da
1.2.26 wlan10	257 bps	123 bps	0	245 Mbps	626.9 Mbps	802.11an-AX	36	160	-43	4C:B1:CD:18:E8:EC	172.18.101.148	a4:6b:b6:3e:d6:04
1.2.27 wlan11	254 bps	123 bps	0	245 Mbps	24 Mbps	802.11an-AX	36	160	-42	4C:B1:CD:18:E8:EC	172.18.101.150	e8:f4:08:1f:7b:88
1.3.28 wlan0	281 bps	124 bps	0	245 Mbps	626.9 Mbps	802.11an-AX	36	111	-44	4C:B1:CD:18:E8:EC	172.18.101.156	e8:f4:08:03:1e:ac

1.3.29 wlan5	284 bps	125 bps	0	245 Mbps	626.9 Mbps	802.11an- AX	36	110	-43	4C:B1:CD:18:E8:EC	172.18.101.160	e8:f4:08:02:55:a3
1.3.30 wlan10	282 bps	124 bps	0	245 Mbps	626.9 Mbps	802.11an- AX	36	192	-43	4C:B1:CD:18:E8:EC	172.18.101.151	e8:f4:08:1f:9a:82
1.3.31 wlan15	243 bps	128 bps	0	245 Mbps	626.9 Mbps	802.11an- AX	36	138	-42	4C:B1:CD:18:E8:EC	172.18.101.159	e8:f4:08:02:58:a5

Port Tx-Bps 1m Rx-Bps 1m Link-Rate IP MAC

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-2.wlan0--1.0.0-A	0 bps	7.523 Mbps	1	1	1	0
cv_udp-2.2-2.wlan0--1.0.0-B	7.523 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan1--1.0.0-A	0 bps	7.547 Mbps	1	1	1	0
cv_udp-2.2-2.wlan1--1.0.0-B	7.547 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan2--1.0.0-A	0 bps	7.565 Mbps	1	1	1	0.012
cv_udp-2.2-2.wlan2--1.0.0-B	7.564 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan3--1.0.0-A	0 bps	7.59 Mbps	1	1	0	0.009
cv_udp-2.2-2.wlan3--1.0.0-B	7.589 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan4--1.0.0-A	0 bps	7.468 Mbps	1	1	0	0.004
cv_udp-2.2-2.wlan4--1.0.0-B	7.467 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan5--1.0.0-A	0 bps	7.494 Mbps	1	1	1	0.007
cv_udp-2.2-2.wlan5--1.0.0-B	7.494 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan6--1.0.0-A	0 bps	7.526 Mbps	1	1	0	0.01
cv_udp-2.2-2.wlan6--1.0.0-B	7.525 Mbps	0 bps	0	1	0	0
cv_udp-2.2-2.wlan7--1.0.0-A	0 bps	7.543 Mbps	1	1	0	0.006
cv_udp-2.2-2.wlan7--1.0.0-B	7.543 Mbps	0 bps	0	1	0	0

Assoc/Disassoc: Snapshot N 2.4Ghz

Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01500	18 bps	3.89 Mbps	0	28.9 Mbps	11 Mbps	802.11bgn	6	223	-26	4C:B1:CD:18:E8:E8	172.18.101.83	04:f0:21:4b:bf:00
1.1.11 sta01501	18 bps	3.875 Mbps	0	1 Mbps	11 Mbps	802.11bgn	6	34	-26	4C:B1:CD:18:E8:E8	172.18.100.206	04:f0:21:4b:aa:00
1.1.12 sta01502	19 bps	4.118 Mbps	0	28.9 Mbps	144.4 Mbps	802.11bgn	6	230	-35	4C:B1:CD:18:E8:E8	172.18.100.225	04:f0:21:4b:a8:00
1.1.13 sta01503	19 bps	4.118 Mbps	5.882	28.9 Mbps	144.4 Mbps	802.11bgn	6	33	-35	4C:B1:CD:18:E8:E8	172.18.101.33	04:f0:21:4b:b7:00
1.1.14 sta01504	229 bps	3.432 Mbps	0	28.9 Mbps	144.4 Mbps	802.11bgn	6	35	-35	4C:B1:CD:18:E8:E8	172.18.100.224	04:f0:21:4b:91:00
1.1.15 sta01505	269 bps	3.43 Mbps	0	14.4 Mbps	144.4 Mbps	802.11bgn	6	32	-35	4C:B1:CD:18:E8:E8	172.18.101.35	04:f0:21:4b:ac:00
1.1.16 sta01506	269 bps	3.434 Mbps	0	1 Mbps	144.4 Mbps	802.11bgn	6	55	-35	4C:B1:CD:18:E8:E8	172.18.100.241	04:f0:21:4b:98:00
1.1.17 sta01507	144 bps	3.432 Mbps	0	28.9 Mbps	144.4 Mbps	802.11bgn	6	38	-35	4C:B1:CD:18:E8:E8	172.18.100.236	04:f0:21:4b:93:00
1.1.18 sta01508	237 bps	2.394 Kbps	0	28.9 Mbps	11 Mbps	802.11bgn	6	55	-27	4C:B1:CD:18:E8:E8	172.18.101.39	04:f0:21:4b:92:00
1.1.19 sta01509	274 bps	4.005 Kbps	0	28.9 Mbps	11 Mbps	802.11bgn	6	35	-26	4C:B1:CD:18:E8:E8	172.18.101.81	04:f0:21:4b:ae:00
1.1.20 sta01510	274 bps	4.01 Kbps	0	28.9 Mbps	11 Mbps	802.11bgn	6	38	-27	4C:B1:CD:18:E8:E8	172.18.101.182	04:f0:21:4b:bb:00
1.1.21 sta01511	274 bps	3.993 Kbps	0	28.9 Mbps	11 Mbps	802.11bgn	6	42	-27	4C:B1:CD:18:E8:E8	172.18.100.221	04:f0:21:4b:a3:00
1.1.22 sta01512	274 bps	3.869 Kbps	0	28.9 Mbps	11 Mbps	802.11bgn	6	33	-27	4C:B1:CD:18:E8:E8	172.18.100.230	04:f0:21:4b:a0:00
1.1.23 sta01513	274 bps	3.958 Kbps	0	28.9 Mbps	11 Mbps	802.11bgn	6	40	-27	4C:B1:CD:18:E8:E8	172.18.100.222	04:f0:21:4b:96:00
1.1.24 sta01514	274 bps	3.985 Kbps	0	28.9 Mbps	11 Mbps	802.11bgn	6	39	-27	4C:B1:CD:18:E8:E8	172.18.100.215	04:f0:21:4b:90:00
1.1.25	274	3.617		28.9	11 Mbps							

sta01515	bps	Kbps	0	Mbps		802.11bgn6	43	-27	4C:B1:CD:18:E8:E8	172.18.101.42	04:f0:21:4b:a4:00
----------	-----	------	---	------	--	------------	----	-----	-------------------	---------------	-------------------

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
------	-----------	-----------	-----------	----	-----

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-1.sta01500--1.0.0-A	0 bps	3.78 Mbps	2	2	0	0
cv_udp-2.2-1.sta01500--1.0.0-B	3.78 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01501--1.0.0-A	0 bps	3.789 Mbps	2	2	0	0
cv_udp-2.2-1.sta01501--1.0.0-B	3.788 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01502--1.0.0-A	0 bps	3.728 Mbps	2	2	1	0
cv_udp-2.2-1.sta01502--1.0.0-B	3.728 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01503--1.0.0-A	0 bps	3.742 Mbps	2	2	0	0
cv_udp-2.2-1.sta01503--1.0.0-B	3.742 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01504--1.0.0-A	0 bps	3.75 Mbps	2	2	0	0.006
cv_udp-2.2-1.sta01504--1.0.0-B	3.75 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01505--1.0.0-A	0 bps	3.764 Mbps	2	2	0	0.009
cv_udp-2.2-1.sta01505--1.0.0-B	3.763 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01506--1.0.0-A	0 bps	3.776 Mbps	2	2	0	0.009
cv_udp-2.2-1.sta01506--1.0.0-B	3.776 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01507--1.0.0-A	0 bps	3.789 Mbps	2	2	0	0
cv_udp-2.2-1.sta01507--1.0.0-B	3.789 Mbps	0 bps	0	2	0	0

Assoc/Disassoc: Snapshot AC 5Ghz

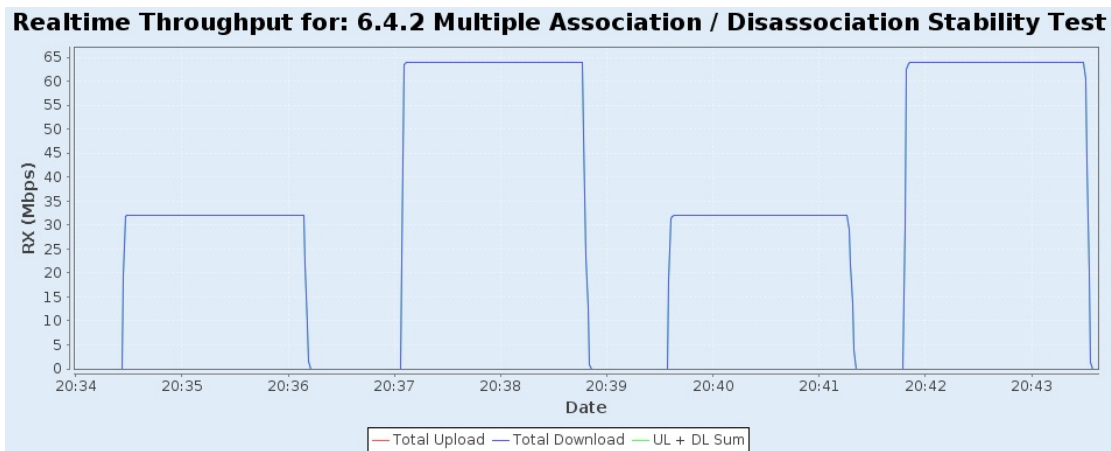
Port	Tx-Bps 1m	RxBps 1m	Tx-Fail %	Tx-Link-Rate	Rx-Link-Rate	Mode	Channel	Last CX-Time(ms)	RSSI (dBm)	AP	IP	MAC
1.1.10 sta01000	27 bps	8.018 Mbps	5.556	175.6 Mbps	24 Mbps	802.11an-AC	36	40	-38	4C:B1:CD:18:E8:EC	172.18.100.246	04:f0:21:38:af:f0
1.1.11 sta01001	27 bps	8.028 Mbps	3.704	175.6 Mbps	24 Mbps	802.11an-AC	36	20	-38	4C:B1:CD:18:E8:EC	172.18.101.6	04:f0:21:38:aa:f0
1.1.12 sta01002	26 bps	8.021 Mbps	5.556	130 Mbps	24 Mbps	802.11an-AC	36	57	-38	4C:B1:CD:18:E8:EC	172.18.101.173	04:f0:21:38:95:f0
1.1.13 sta01003	26 bps	8.029 Mbps	5.556	130 Mbps	24 Mbps	802.11an-AC	36	51	-38	4C:B1:CD:18:E8:EC	172.18.101.12	04:f0:21:38:b8:f0
1.1.14 sta01004	26 bps	8.038 Mbps	0	130 Mbps	24 Mbps	802.11an-AC	36	24	-38	4C:B1:CD:18:E8:EC	172.18.101.14	04:f0:21:38:8b:f0
1.1.15 sta01005	26 bps	8.012 Mbps	0	130 Mbps	24 Mbps	802.11an-AC	36	22	-38	4C:B1:CD:18:E8:EC	172.18.101.2	04:f0:21:38:80:f0
1.1.16 sta01006	26 bps	8.023 Mbps	4	130 Mbps	24 Mbps	802.11an-AC	36	23	-38	4C:B1:CD:18:E8:EC	172.18.101.47	04:f0:21:38:87:f0
1.1.17 sta01007	26 bps	8.036 Mbps	5.556	117 Mbps	24 Mbps	802.11an-AC	36	24	-38	4C:B1:CD:18:E8:EC	172.18.100.254	04:f0:21:38:a7:f0
1.1.18 sta01008	270 bps	2.577 Kbps	0	130 Mbps	24 Mbps	802.11an-AC	36	32	-38	4C:B1:CD:18:E8:EC	172.18.101.76	04:f0:21:38:94:f0
1.1.19 sta01009	270 bps	2.729 Kbps	0	130 Mbps	24 Mbps	802.11an-AC	36	32	-38	4C:B1:CD:18:E8:EC	172.18.101.44	04:f0:21:38:ae:f0
1.1.20 sta01010	290 bps	2.374 Kbps	0	130 Mbps	24 Mbps	802.11an-AC	36	59	-38	4C:B1:CD:18:E8:EC	172.18.101.17	04:f0:21:38:99:f0
1.1.21 sta01011	289 bps	2.369 Kbps	0	130 Mbps	24 Mbps	802.11an-AC	36	35	-37	4C:B1:CD:18:E8:EC	172.18.101.8	04:f0:21:38:9a:f0
1.1.22 sta01012	289 bps	2.414 Kbps	0	130 Mbps	24 Mbps	802.11an-AC	36	25	-37	4C:B1:CD:18:E8:EC	172.18.101.183	04:f0:21:38:8d:f0
1.1.23 sta01013	288 bps	2.467 Kbps	0	130 Mbps	24 Mbps	802.11an-AC	36	26	-37	4C:B1:CD:18:E8:EC	172.18.101.43	04:f0:21:38:a2:f0
1.1.24 sta01014	271 bps	3.08 Kbps	0	130 Mbps	24 Mbps	802.11an-AC	36	32	-37	4C:B1:CD:18:E8:EC	172.18.101.77	04:f0:21:38:ad:f0
1.1.25 sta01015	271 bps	3.103 Kbps	0	130 Mbps	24 Mbps	802.11an-AC	36	33	-37	4C:B1:CD:18:E8:EC	172.18.101.29	04:f0:21:38:9b:f0

Port	Tx-Bps 1m	Rx-Bps 1m	Link-Rate	IP	MAC
------	-----------	-----------	-----------	----	-----

--	--	--	--	--	--

Endpoint	Tx-Bps 1m	Rx-Bps 1m	RX Latency(ms)	Round-Trip Latency(ms)	Jitter	Rx Packet Loss %
cv_udp-2.2-1.sta01000--1.0.0-A	0 bps	7.45 Mbps	2	2	1	0
cv_udp-2.2-1.sta01000--1.0.0-B	7.449 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01001--1.0.0-A	0 bps	7.469 Mbps	2	2	1	0.011
cv_udp-2.2-1.sta01001--1.0.0-B	7.469 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01002--1.0.0-A	0 bps	7.497 Mbps	2	2	1	0
cv_udp-2.2-1.sta01002--1.0.0-B	7.497 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01003--1.0.0-A	0 bps	7.513 Mbps	2	2	1	0
cv_udp-2.2-1.sta01003--1.0.0-B	7.513 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01004--1.0.0-A	0 bps	7.531 Mbps	2	2	1	0.006
cv_udp-2.2-1.sta01004--1.0.0-B	7.531 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01005--1.0.0-A	0 bps	7.557 Mbps	2	2	0	0.006
cv_udp-2.2-1.sta01005--1.0.0-B	7.557 Mbps	0 bps	0	2	0	0
cv_udp-2.2-1.sta01006--1.0.0-A	0 bps	7.569 Mbps	1	1	0	0.009
cv_udp-2.2-1.sta01006--1.0.0-B	7.569 Mbps	0 bps	0	1	0	0
cv_udp-2.2-1.sta01007--1.0.0-A	0 bps	7.582 Mbps	1	1	0	0
cv_udp-2.2-1.sta01007--1.0.0-B	7.582 Mbps	0 bps	0	1	0	0

Realtime Throughput for: 6.4.2 Multiple Association / Disassociation Stability Test



[Key Performance Indicators CSV](#)

Test configuration and LANforge software version	
Auto-Helper	true
Skip 2.4Ghz Tests	false
Skip 5Ghz Tests	false
Duration-120	30
Duration-60	20
Channel 2Ghz	6
Channel 5Ghz	36
Extra Download Path-loss	0
TX Power	20
Multi-Conn	5
ToS	0
Upstream Port	1.2.2 eth2 Firmware: 0x80000aef, 1.1876.0 Resource: ct523c-3b89
Turn-Table Chamber	TR-398
Configured 2m 2.4Ghz RSSI	-26
Configured 2m 5Ghz RSSI	-30
Max-CX 2Ghz N rate:	2000000
Max-CX 2Ghz AX rate:	3000000
Max-CX 5Ghz AC rate:	8000000

Max-CX 5Ghz AX rate:	10000000
Throughput N 2Ghz rate:	100000000
Throughput AC 5Ghz rate:	560000000
Throughput AX 2Ghz rate:	200000000
Throughput AX 5Ghz rate:	720000000
Throughput AX 2Ghz rate:	300000000
Throughput AX 5Ghz rate:	1100000000
ATF Max NSS:	2
ATF Attenuation:	10
Requested Rx-Sens Speed	65%
RxSens Rotation Degrees:	45
RxSens Start Step:	8
Attenuation Adjustment	0
Stop RX-Sens at pass	false
Pause on zero throughput	false
Auto-Calibrate Interferer	false
Interferer 5G-80Mhz:	195.00 Mbps
Interferer 5G-40Mhz:	90.00 Mbps
Interferer 2.4G-20Mhz:	32.00 Mbps
Spatial Rotation Degrees:	30
Test Retries:	0
Stability Duration-180	180
Stability Max-Iterations	16
Stability UDP Duration	1 h
Calibration Mode:	4
Calibration NSS:	1
WiFi Radio 0	1.1.2 wiphy0 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: TR-398
WiFi Radio 1	1.1.3 wiphy1 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: TR-398
WiFi Radio 2	1.1.4 wiphy2 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: TR-398
WiFi Radio 3	1.1.5 wiphy3 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: TR-398
WiFi Radio 4	1.1.6 wiphy4 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: TR-398
WiFi Radio 5	1.1.7 wiphy5 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: TR-398
WiFi AX Radio 0	1.2.wiphy0 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 1	1.2.wiphy1 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 2	1.2.wiphy2 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 3	1.2.wiphy3 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 4	1.2.wiphy4 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 5	1.2.wiphy5 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 6	1.2.wiphy6 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 7	1.2.wiphy7 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 8	1.2.wiphy8 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 9	1.2.wiphy9 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 10	1.2.wiphy10 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 11	1.2.wiphy11 Firmware: master::8d44724a Resource: ct523c-3b89
WiFi AX Radio 12	1.3.wiphy0 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 13	1.3.wiphy5 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 14	1.3.wiphy10 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 15	1.3.wiphy15 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 16	1.3.wiphy1 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 17	1.3.wiphy6 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 18	1.3.wiphy11 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 19	1.3.wiphy16 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 20	1.3.wiphy2 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 21	1.3.wiphy7 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 22	1.3.wiphy12 Firmware: master::8d44724a Resource: ct523c-de7c

WiFi AX Radio 23	1.3.wiphy17 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 24	1.3.wiphy3 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 25	1.3.wiphy8 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 26	1.3.wiphy13 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 27	1.3.wiphy18 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 28	1.3.wiphy4 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 29	1.3.wiphy9 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 30	1.3.wiphy14 Firmware: master::8d44724a Resource: ct523c-de7c
WiFi AX Radio 31	1.3.wiphy19 Firmware: master::8d44724a Resource: ct523c-de7c
Attenuator 0	rsi-0-2.4Ghz: -18 rsi-0-5Ghz: -39 atten: 1.1.3094.0
Attenuator 1	rsi-0-2.4Ghz: -18 rsi-0-5Ghz: -39 atten: 1.1.3094.1
Attenuator 2	rsi-0-2.4Ghz: -18 rsi-0-5Ghz: -39 atten: 1.1.3094.2
Attenuator 3	rsi-0-2.4Ghz: -18 rsi-0-5Ghz: -39 atten: 1.1.3094.3
Attenuator 4	rsi-0-2.4Ghz: -27 rsi-0-5Ghz: -46 atten: 1.1.3102.0
Attenuator 5	rsi-0-2.4Ghz: -27 rsi-0-5Ghz: -46 atten: 1.1.3102.1
Attenuator 6	rsi-0-2.4Ghz: -27 rsi-0-5Ghz: -46 atten: 1.1.3099.0
Attenuator 7	rsi-0-2.4Ghz: -27 rsi-0-5Ghz: -46 atten: 1.1.3099.1
Attenuator 8	rsi-0-2.4Ghz: -23 rsi-0-5Ghz: -52 atten: 1.1.3102.2
Attenuator 9	rsi-0-2.4Ghz: -23 rsi-0-5Ghz: -52 atten: 1.1.3102.3
Attenuator 10	rsi-0-2.4Ghz: -23 rsi-0-5Ghz: -52 atten:
Attenuator 11	rsi-0-2.4Ghz: -23 rsi-0-5Ghz: -52 atten:
AX Attenuator 0	AX rsi-0-2.4Ghz: -25 rsi-0-5Ghz: -38 atten: 1.1.3100.3
AX Attenuator 1	AX rsi-0-2.4Ghz: -25 rsi-0-5Ghz: -38 atten: 1.1.3100.2
AX Attenuator 2	AX rsi-0-2.4Ghz: -25 rsi-0-5Ghz: -38 atten: NA
AX Attenuator 3	AX rsi-0-2.4Ghz: -25 rsi-0-5Ghz: -38 atten: NA
AX Attenuator 4	AX rsi-0-2.4Ghz: -37 rsi-0-5Ghz: -40 atten: 1.1.3100.1
AX Attenuator 5	AX rsi-0-2.4Ghz: -37 rsi-0-5Ghz: -40 atten: 1.1.3100.0
AX Attenuator 6	AX rsi-0-2.4Ghz: -37 rsi-0-5Ghz: -40 atten:
AX Attenuator 7	AX rsi-0-2.4Ghz: -37 rsi-0-5Ghz: -40 atten:
AX Attenuator 8	AX rsi-0-2.4Ghz: -34 rsi-0-5Ghz: -44 atten: 1.1.3099.3
AX Attenuator 9	AX rsi-0-2.4Ghz: -34 rsi-0-5Ghz: -44 atten: 1.1.3099.2
AX Attenuator 10	AX rsi-0-2.4Ghz: -34 rsi-0-5Ghz: -44 atten:
AX Attenuator 11	AX rsi-0-2.4Ghz: -34 rsi-0-5Ghz: -44 atten:
Show Events	true
Build Date	Fri 14 May 2021 02:23:21 PM PDT
Git Version	001aa6cee3ae2b94adcf422aece74a6963e5336a