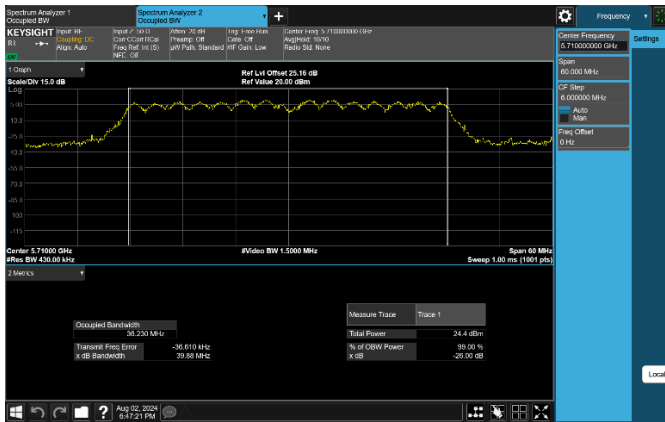
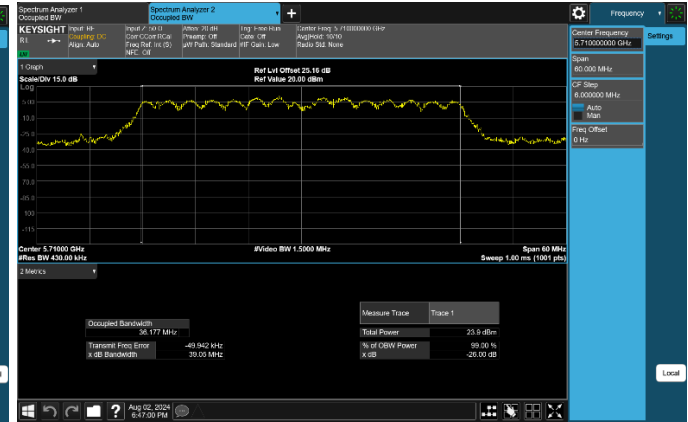


High Channel – 802.11n40, (5710MHz) combined (both chains)

26 dB BW



99% OBW

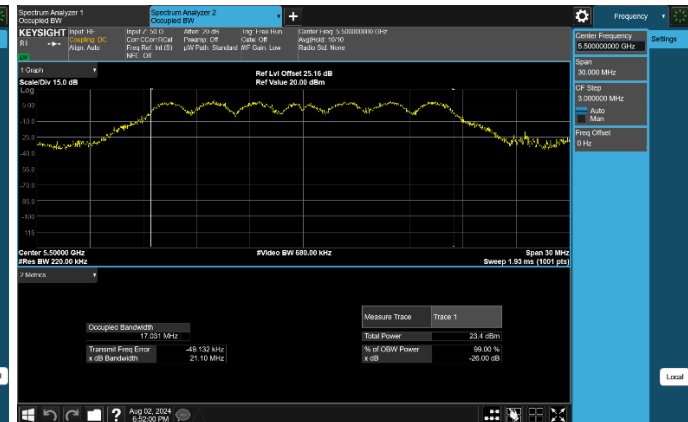


Low Channel – 802.11ac20, (5500MHz) combined (both chains)

26 dB BW

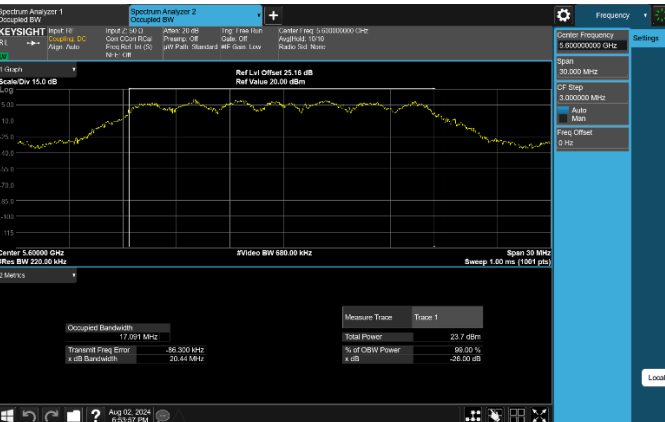


99% OBW

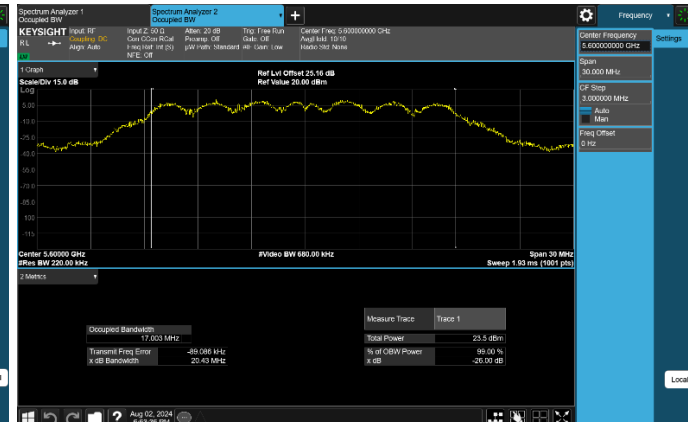


Mid Channel – 802.11ac20, (5600MHz) combined (both chains)

26 dB BW



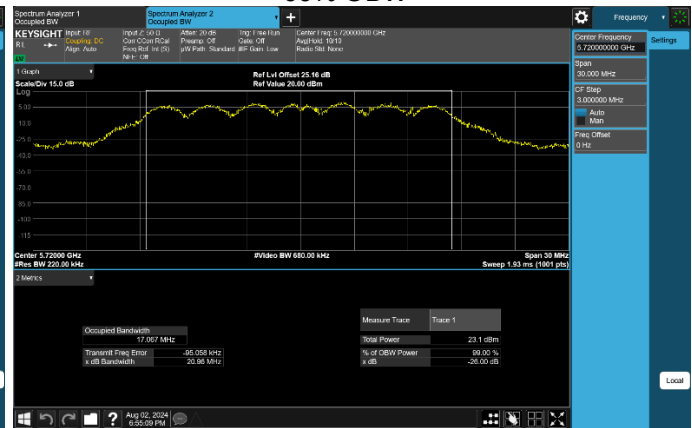
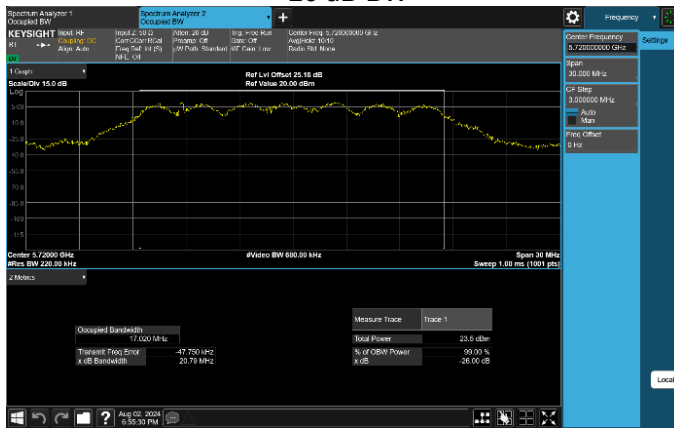
99% OBW



High Channel – 802.11ac20, (5720MHz) combined (both chains)

26 dB BW

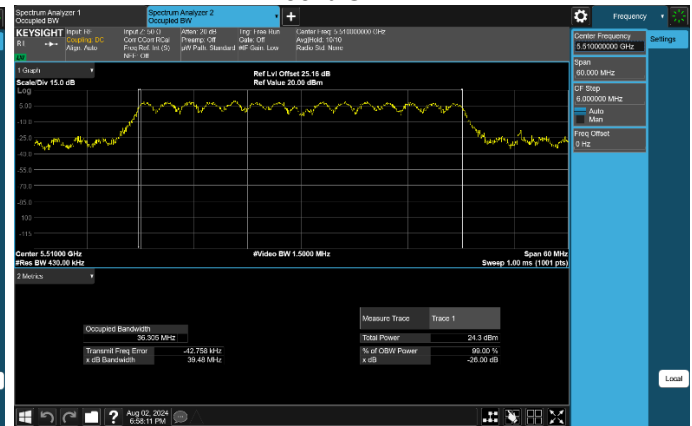
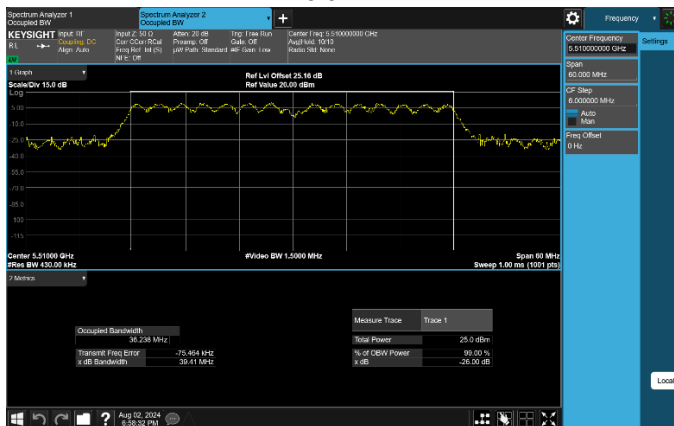
99% OBW



Low Channel – 802.11ac40, (5510MHz) combined (both chains)

26 dB BW

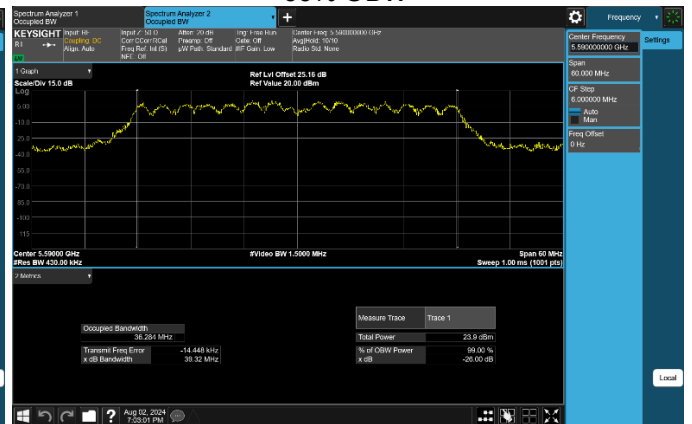
99% OBW



Mid Channel – 802.11ac40, (5590MHz) combined (both chains)

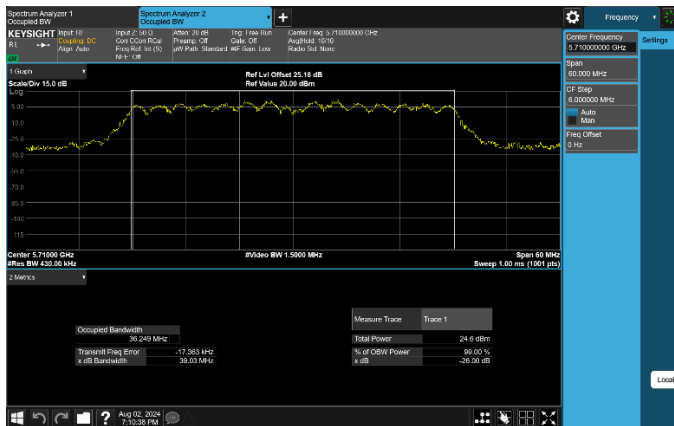
26 dB BW

99% OBW



High Channel – 802.11ac40, (5710MHz) combined (both chains)

26 dB BW

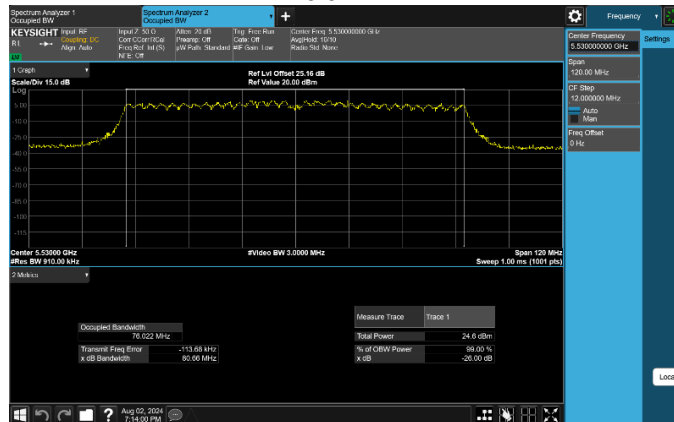


99% OBW

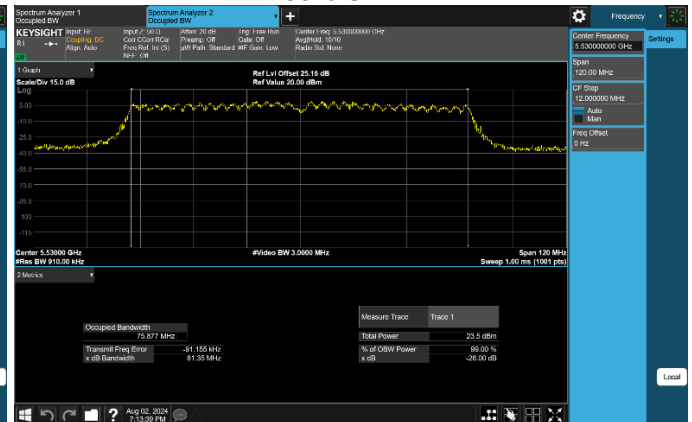


Low Channel – 802.11ac80, (5530MHz) combined (both chains)

26 dB BW

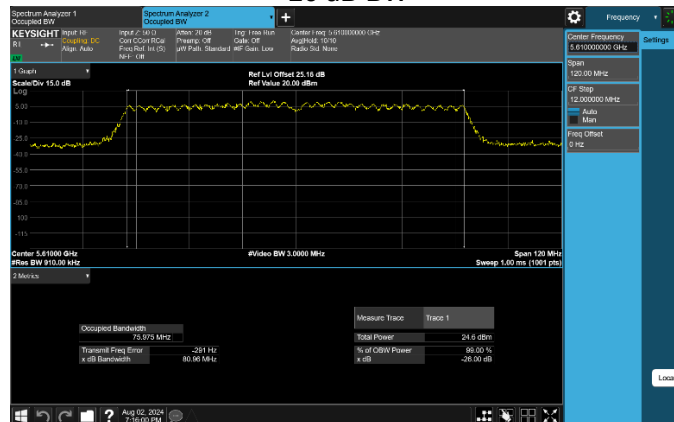


99% OBW

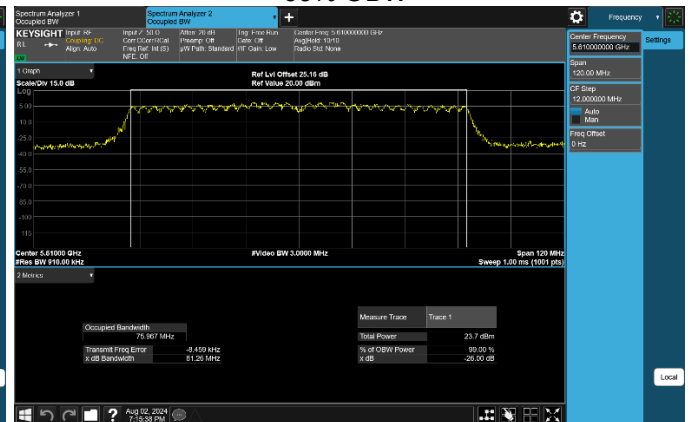


Mid Channel – 802.11ac80, (5610MHz) combined (both chains)

26 dB BW

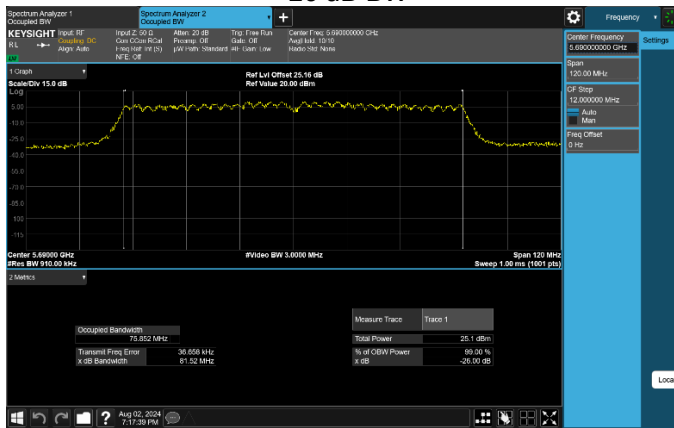


99% OBW

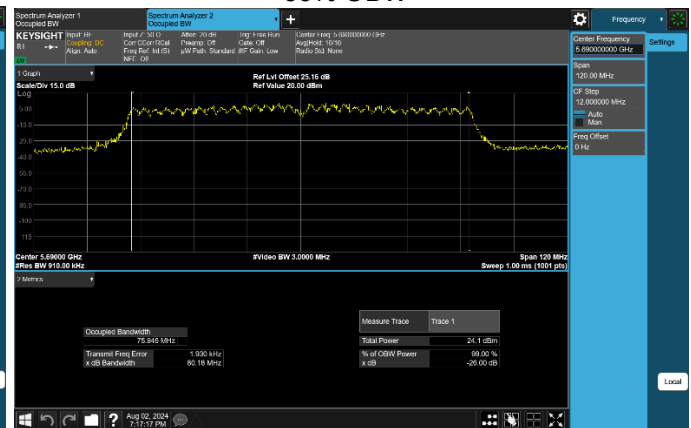


High Channel – 802.11ac80, (5690MHz) combined (both chains)

26 dB BW



99% OBW

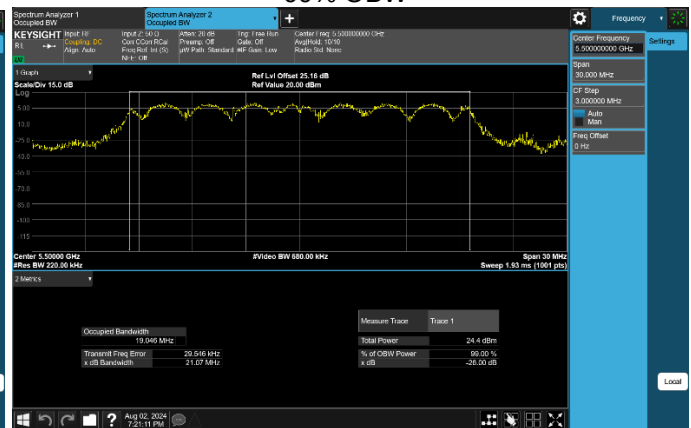


Low Channel – 802.11ax20, (5500MHz) combined (both chains)

26 dB BW



99% OBW



Mid Channel – 802.11ax20, (5600MHz) combined (both chains)

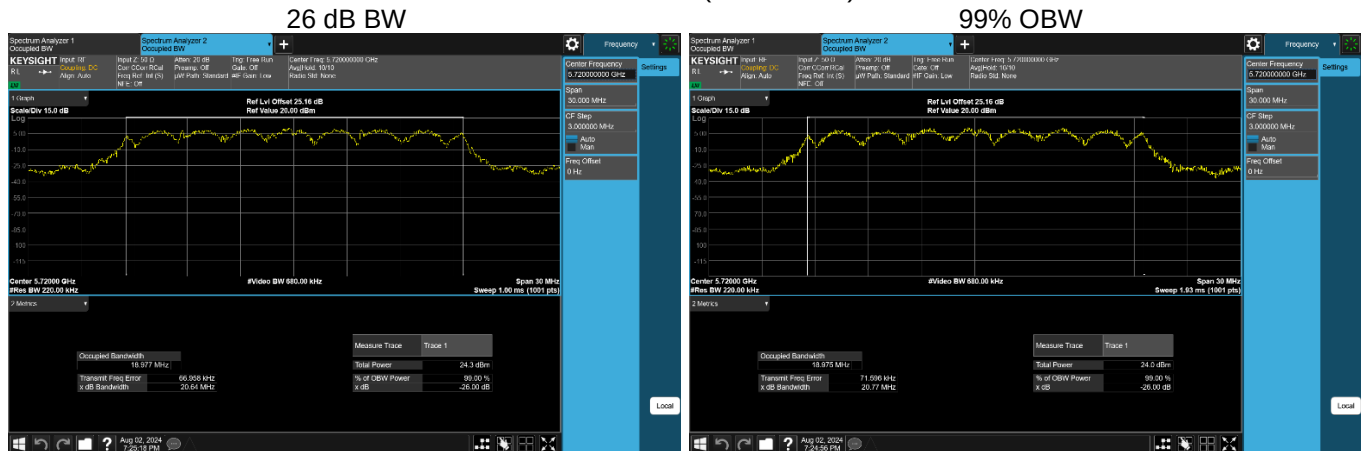
26 dB BW



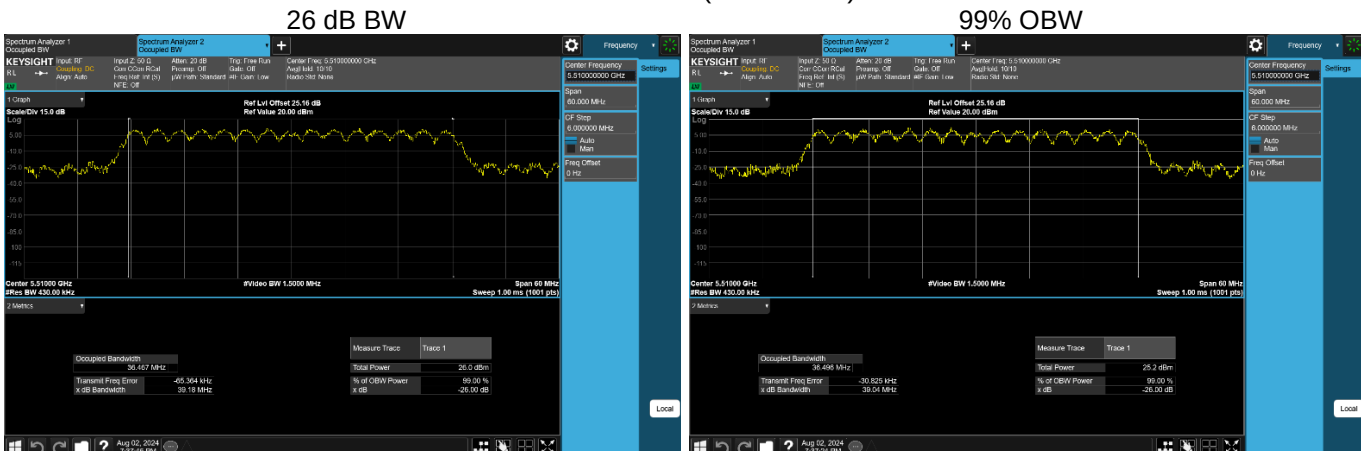
99% OBW



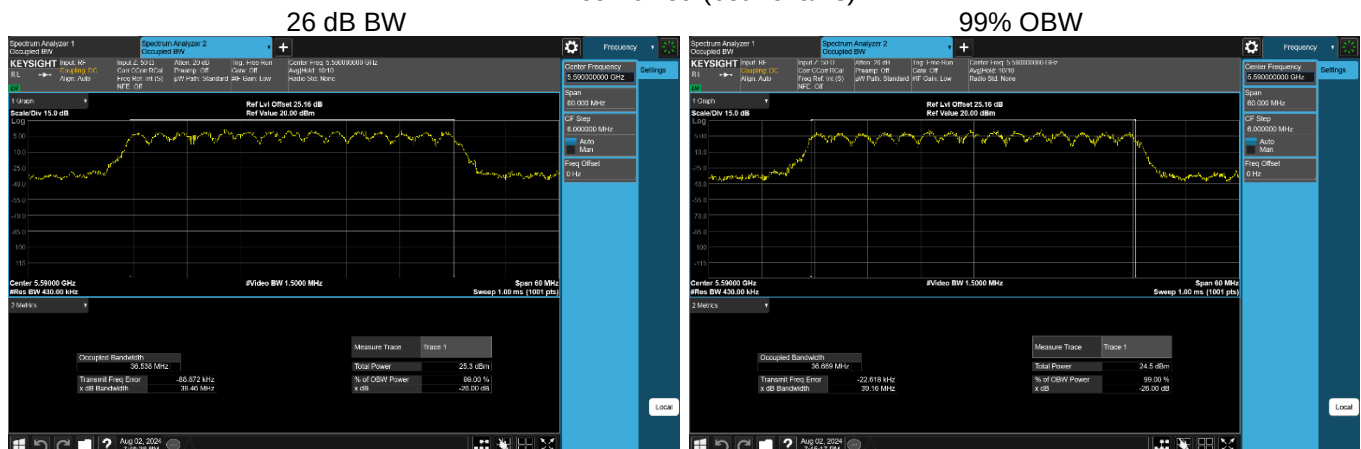
High Channel – 802.11ax20, (5720MHz) combined (both chains)



Low Channel – 802.11ax40, (5510MHz) combined (both chains)



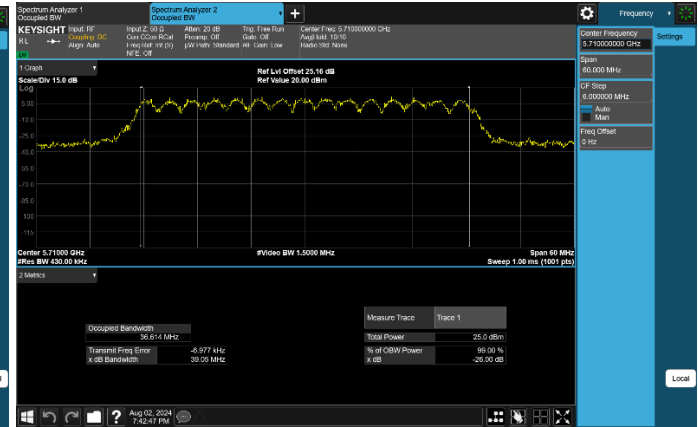
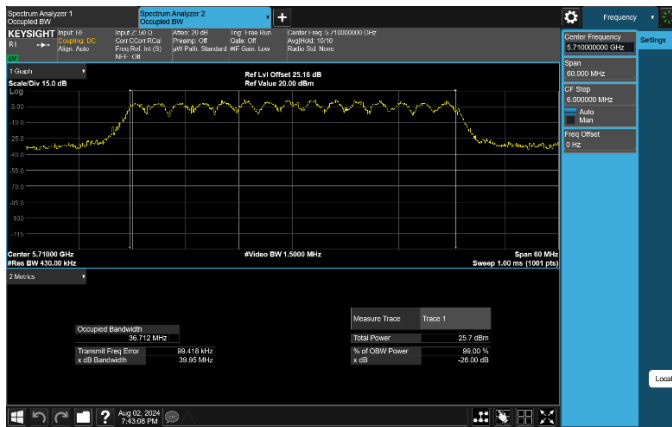
Mid Channel – 802.11ax40, (5590MHz) combined (both chains)



High Channel – 802.11ax40, (5710MHz) combined (both chains)

26 dB BW

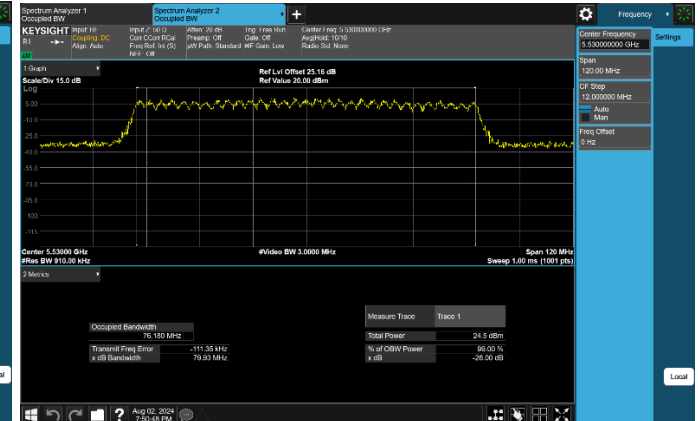
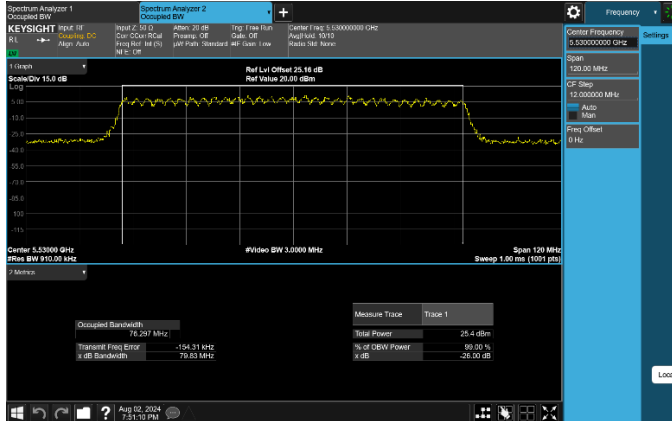
99% OBW



Low Channel – 802.11ax80, (5530MHz) combined (both chains)

26 dB BW

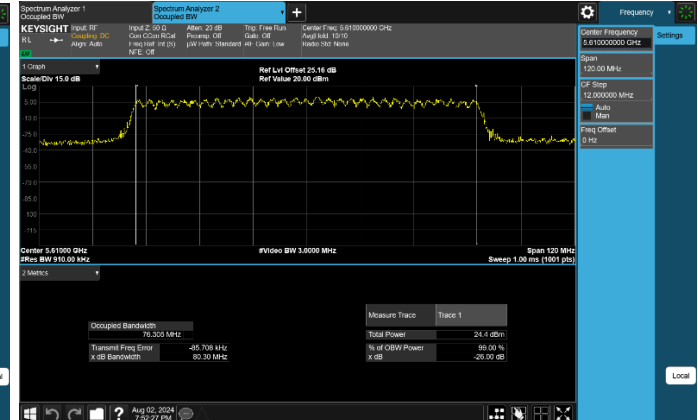
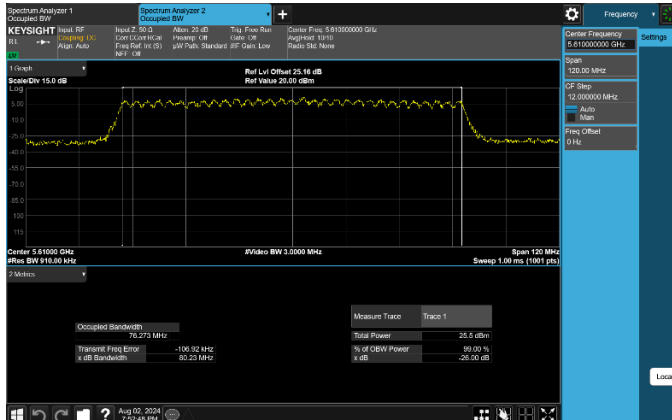
99% OBW



Mid Channel – 802.11ax80, (5610MHz) combined (both chains)

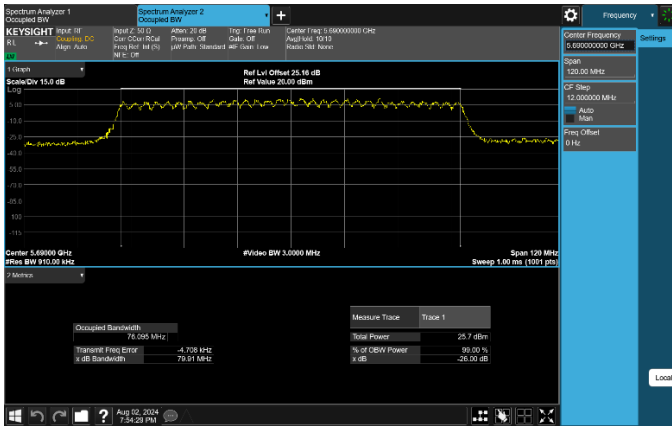
26 dB BW

99% OBW

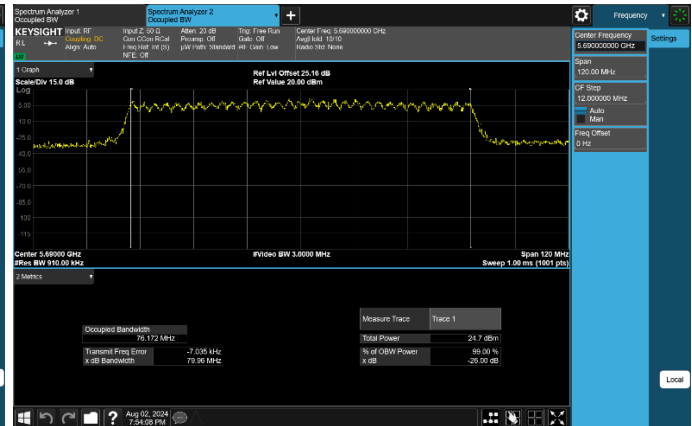


High Channel – 802.11ax80, (5690MHz) combined (both chains)

26 dB BW



99% OBW

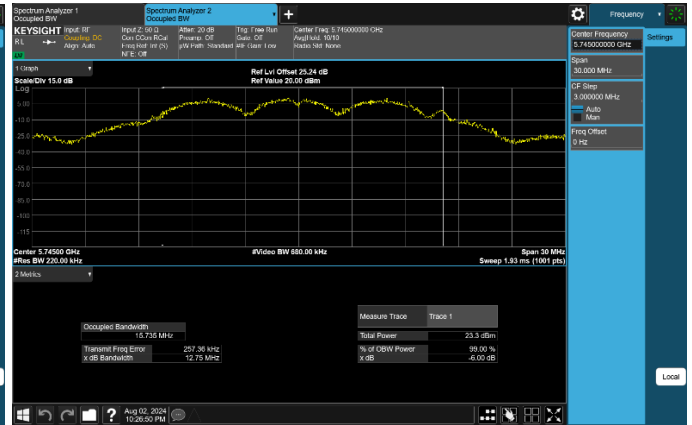


UNI13: Low Channel – 802.11a NOHT, (5745MHz) combined (both chains)

6 dB BW

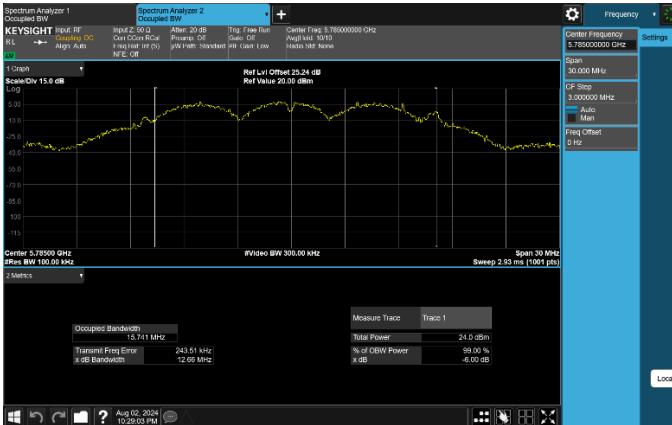


99% OBW

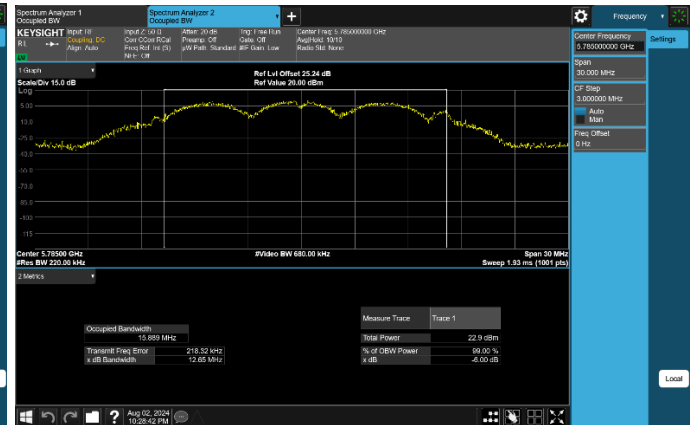


Mid Channel – 802.11a NOHT, (5785MHz) combined (both chains)

6 dB BW



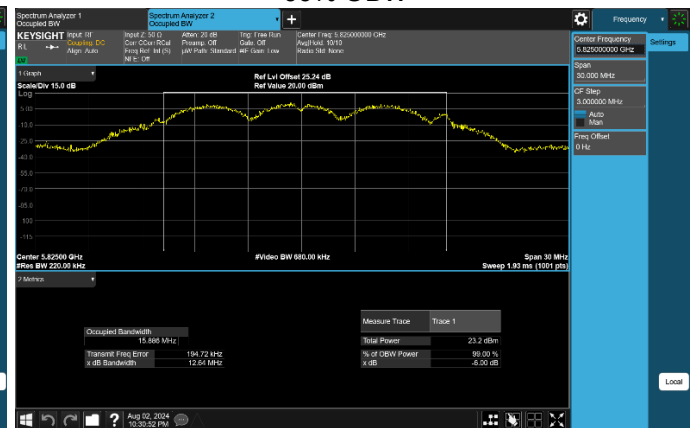
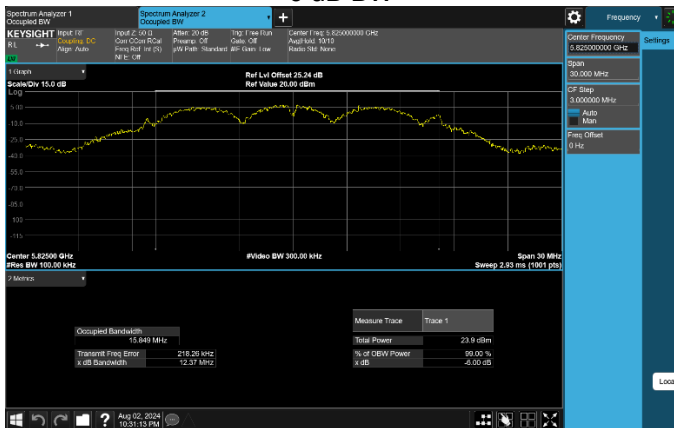
99% OBW



High Channel – 802.11a NOHT, (5825MHz) combined (both chains)

6 dB BW

99% OBW



Low Channel – 802.11n20, (5745MHz) combined (both chains)

6 dB BW

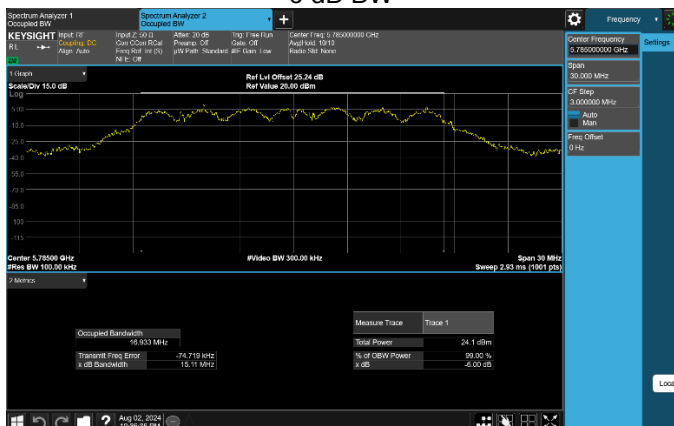
99% OBW



Mid Channel – 802.11n20, (5785MHz) combined (both chains)

6 dB BW

99% OBW

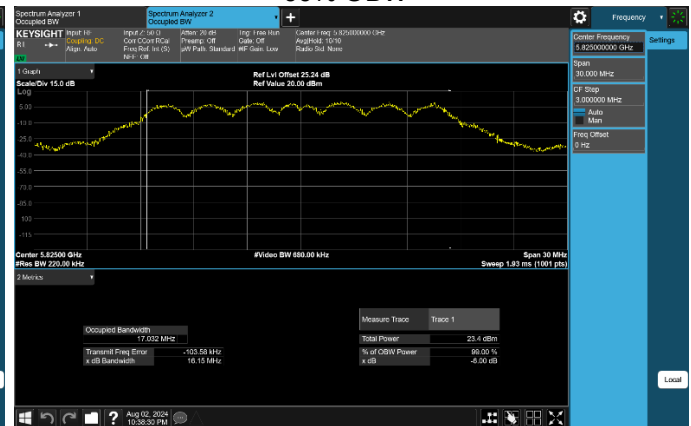


High Channel – 802.11n20, (5825MHz) combined (both chains)

6 dB BW



99% OBW

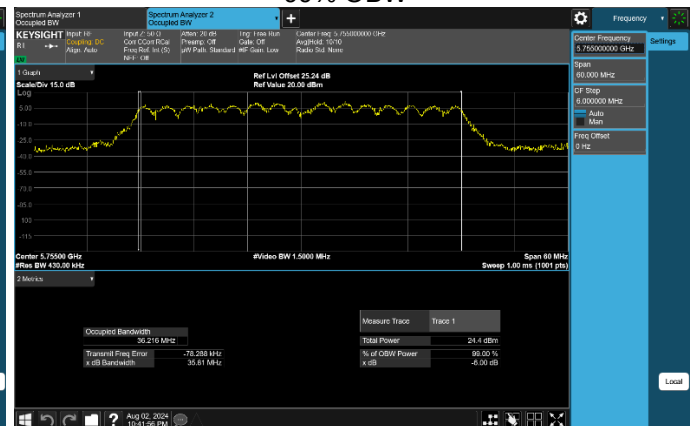


Low Channel – 802.11n40, (5755MHz) combined (both chains)

6 dB BW

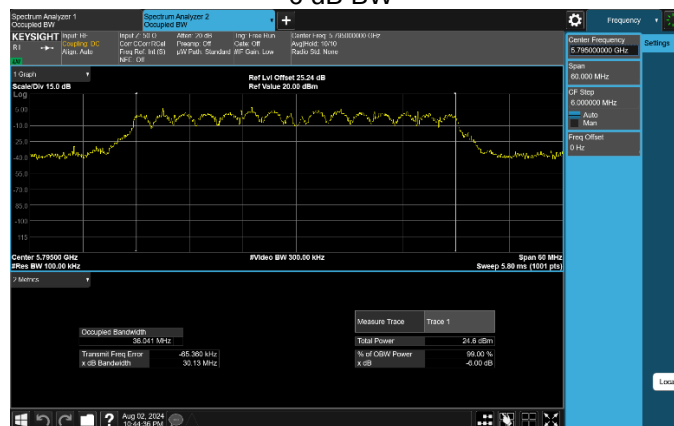


99% OBW

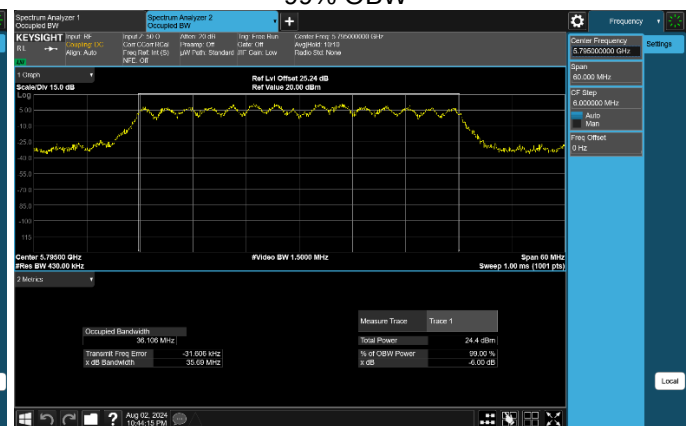


High Channel – 802.11n40, (5795MHz) combined (both chains)

6 dB BW



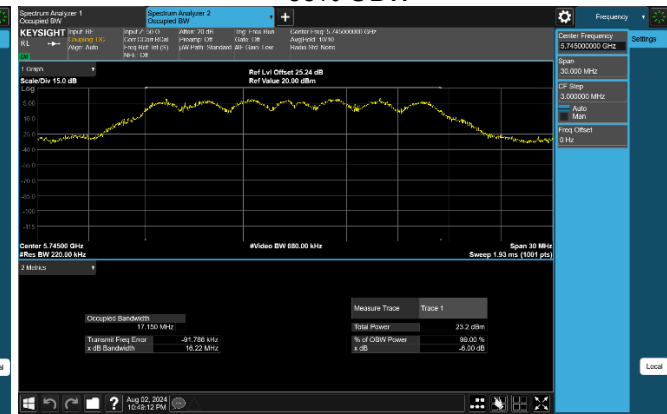
99% OBW



Low Channel – 802.11ac20, (5745MHz) combined (both chains)

6 dB BW

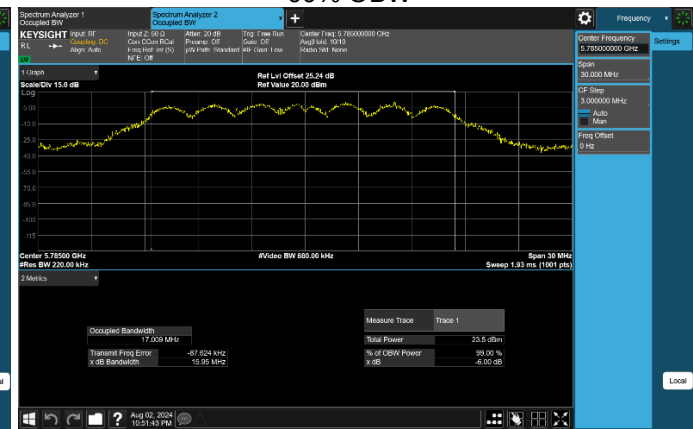
99% OBW



Mid Channel – 802.11ac20, (5785MHz) combined (both chains)

6 dB BW

99% OBW



High Channel – 802.11ac20, (5825MHz) combined (both chains)

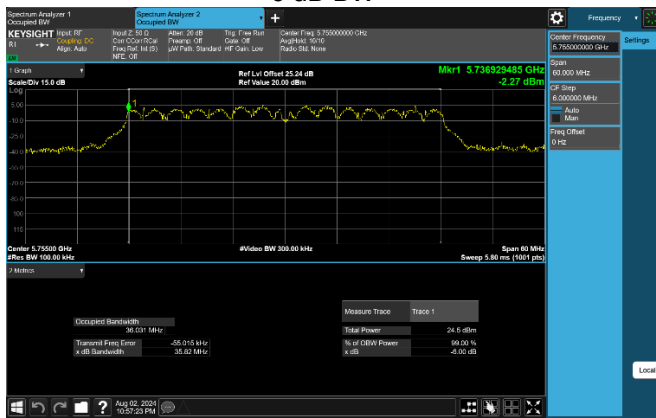
6 dB BW

99% OBW

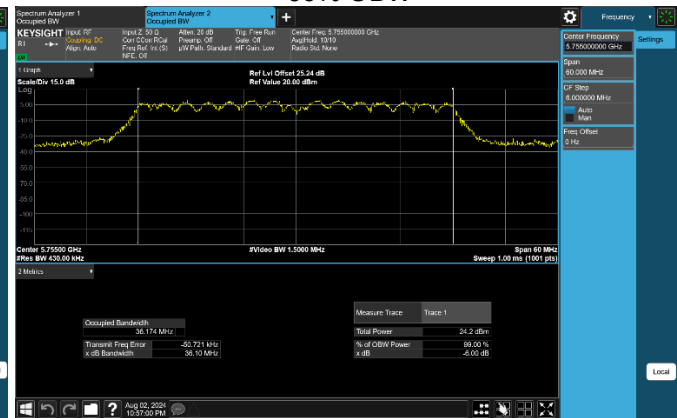


Low Channel – 802.11ac40, (5755MHz) combined (both chains)

6 dB BW

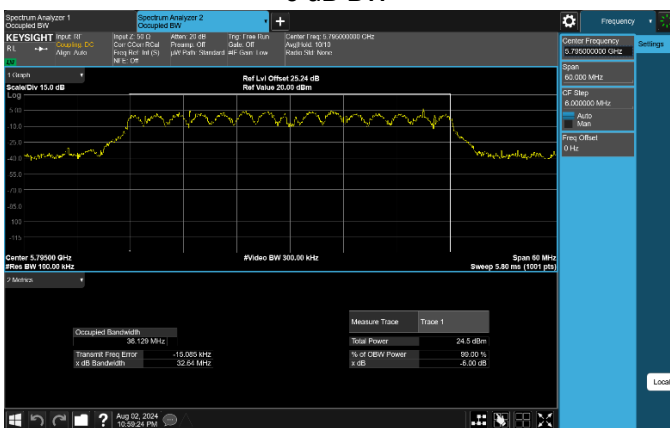


99% OBW

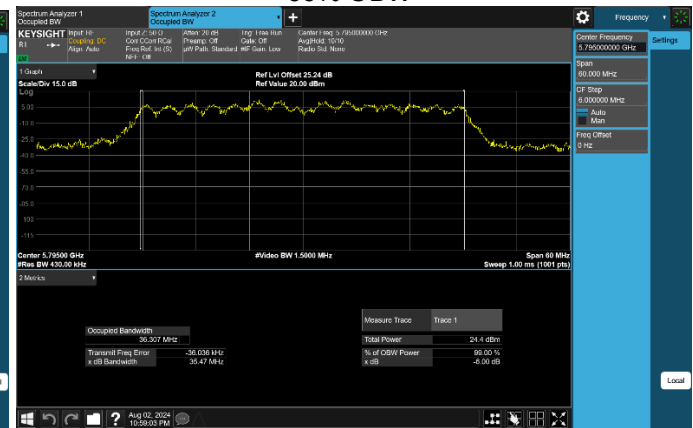


High Channel – 802.11ac40, (5795MHz) combined (both chains)

6 dB BW

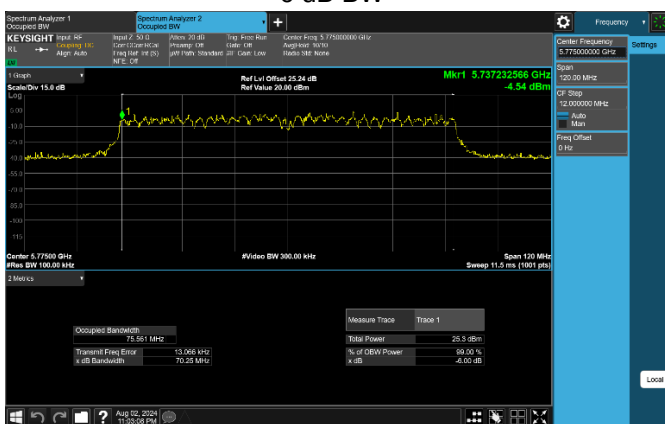


99% OBW

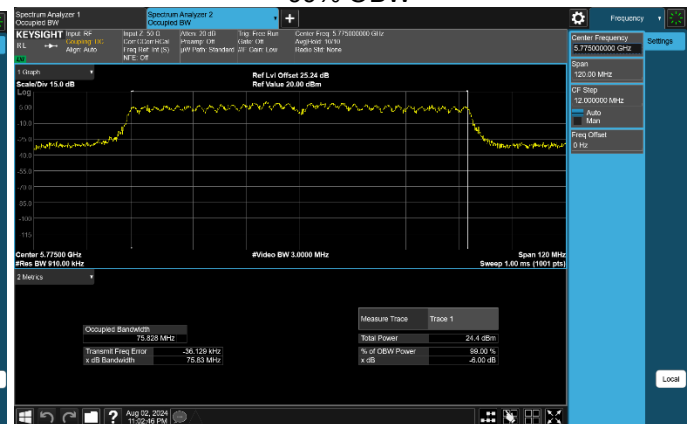


Mid Channel – 802.11ac80, (5775MHz) combined (both chains)

6 dB BW



99% OBW



Low Channel – 802.11ax20, (55745MHz) combined (both chains)

6 dB BW

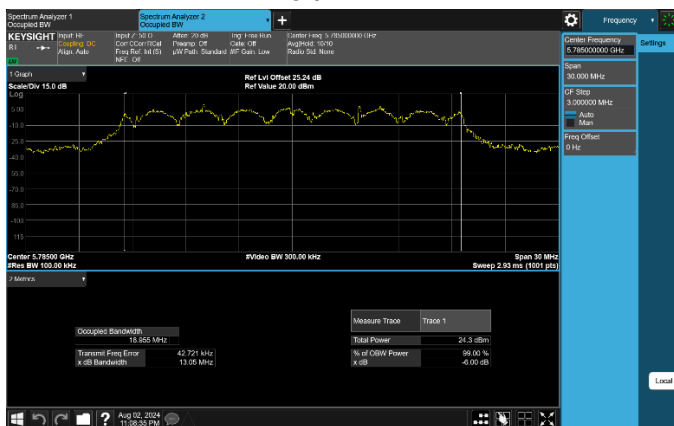


99% OBW

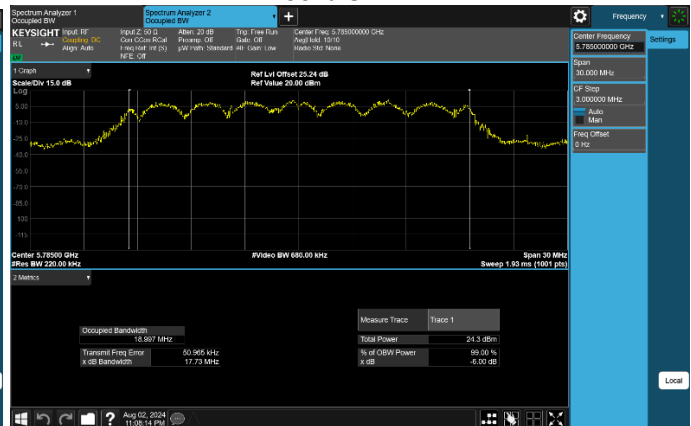


Mid Channel – 802.11ax20, (5785MHz) combined (both chains)

6 dB BW

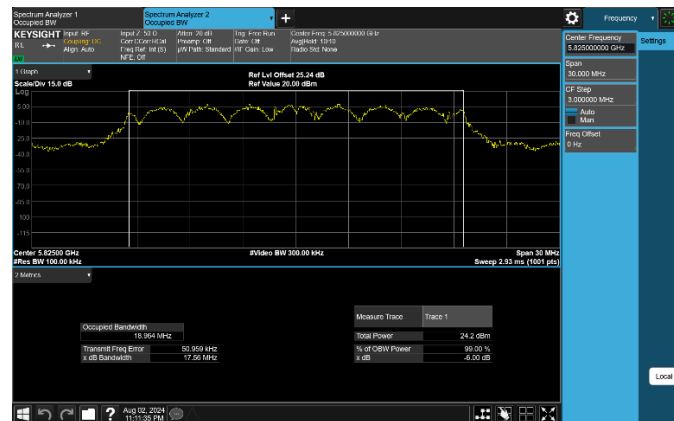


99% OBW

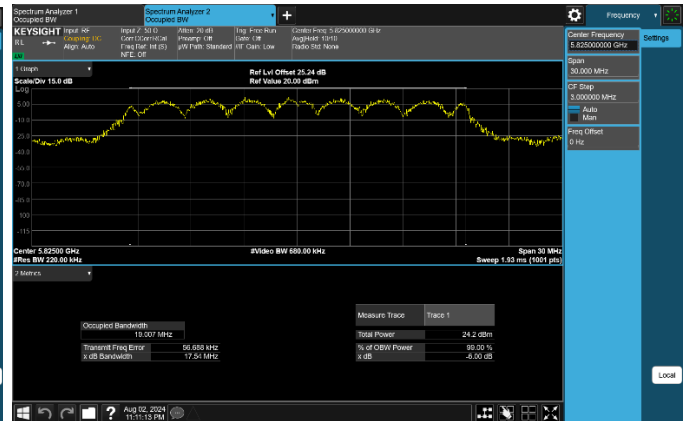


High Channel – 802.11ax20, (5825MHz) combined (both chains)

6 dB BW

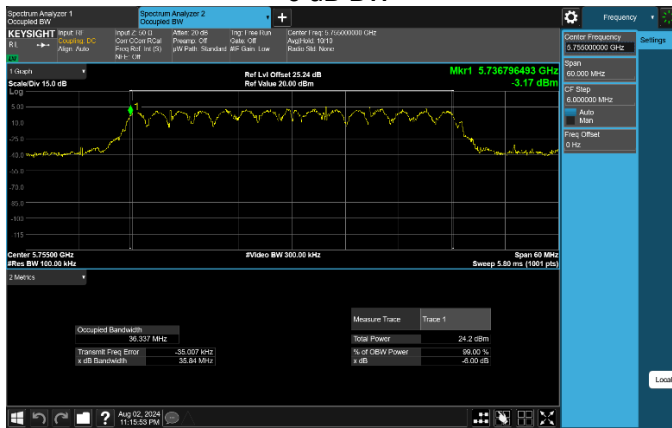


99% OBW

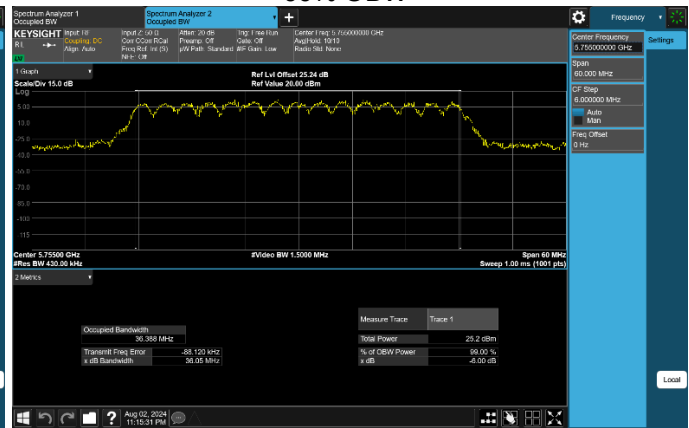


Low Channel – 802.11ax40, (5755MHz) combined (both chains)

6 dB BW

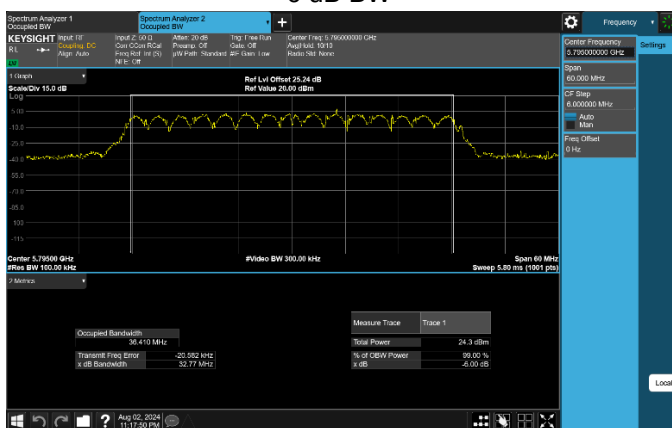


99% OBW

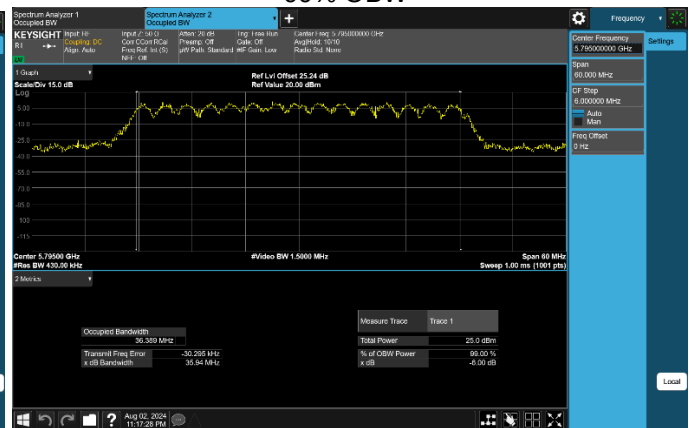


High Channel – 802.11ax40, (5795MHz) combined (both chains)

6 dB BW

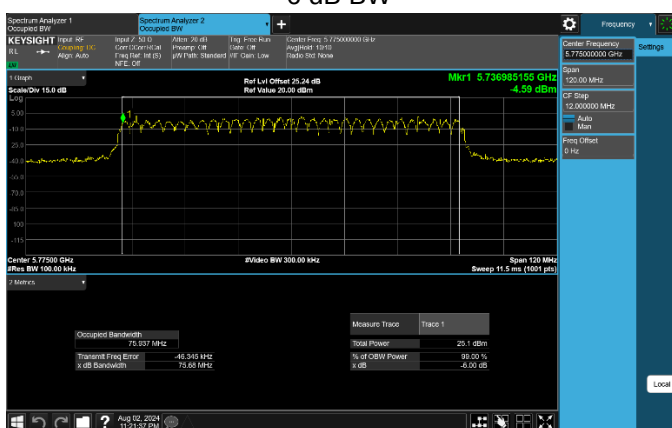


99% OBW

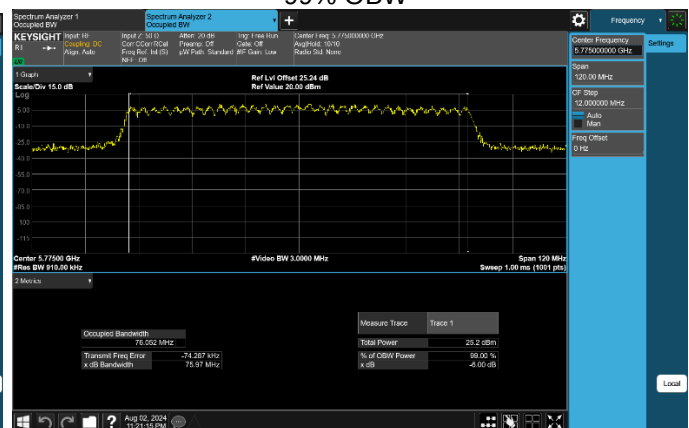


Mid Channel – 802.11ax80, (5775MHz) combined (both chains)

6 dB BW



99% OBW



4 Conducted Output Power

4.1 Test Result

Test Description	Test Specification	Test Result
Conducted Output Power	15.407(a)(1)(iv), (a)(2), (a)(3)(i) / RSS-247 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.2	Compliant

4.2 Test Method

The test data was measured using a power meter with Peak and Average detector.

Duty cycle was measured using a spectrum analyzer. Average detector data was compensated with the duty cycle correction factor.

Limit

UNII1: 24 dBm conducted (FCC)

UNII2a, UNII2c: 24 dBm conducted (FCC), 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less (ISED)

UNII3: 30 dBm conducted (FCC, ISED)

4.3 Test Site

EMC Laboratory, San Diego, CA

Environmental Conditions

Temperature: 20 – 25 °C

Relative Humidity: 35 – 50 %

4.4 Test Equipment

Test End Date: July 11 to 26, 2024

Tester: Dongho Jeong, Alex Chang

Asset No.	Type of Equipment	Model	Serial No.	Manufacturer	Cal Date	Cal Due Date
Conducted Testing						
2013	Power Meter	N1911A	MY62310007	Keysight	01/29/2024	01/29/2025
2015	Wideband Power Sensor	N1921A	MY62220017	Keysight	01/29/2024	01/29/2025
#2	RF Cable	W60-1524.1195.00	N/A	Unknown	N/A (verified before use)	
-	20 dB Attenuator	3M-20	93495	WEINSCHTEL	N/A (verified before use)	
-	Power Splitter	ZN2PD2-63-S+	SUU71801931	Mini-Circuits	N/A (verified before use)	
-	Test Software	Radio Test Software	v.23	SGS Taiwan	N/A	
2036	Temp/Humidity Data Logger	GSP-8	CMA231100002	Elitech	09/07/2024	09/07/2025

4.5 Test Setup Photographs

Test setup photographs are located in a separate report (208949-8).

4.6 Duty Cycle Test Data

UNII 1

Antennas Combined							
Mode	Power Level	Data Rate (Mbps)/	Frequency (MHz)	T_on (ms)	T_on + T_off (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a NOHT	66	6	5180	2.064	2.084	99.04	0.00
	66	9		2.048	2.068	99.03	0.00
	66	12		2.044	2.062	99.13	0.00
	66	18		1.812	1.832	98.91	0.00
	60	24		1.364	1.384	98.55	0.00
	60	36		0.916	0.934	98.07	0.00
	60	48		0.692	0.712	97.19	0.12
	60	54		0.620	0.640	96.88	0.14
802.11 n20	59	mcs0	5180	2.076	2.094	99.14	0.00
	59	mcs1		2.056	2.076	99.04	0.00
	59	mcs2		2.052	2.070	99.13	0.00
	59	mcs3		2.048	2.068	99.03	0.00
	59	mcs4		2.044	2.064	99.03	0.00
	59	mcs5		2.044	2.064	99.03	0.00
	59	mcs6		2.044	2.064	99.03	0.00
	59	mcs7		2.040	2.060	99.03	0.00
802.11 n40	55	mcs0	5190	1.984	2.002	99.1	0.00
	55	mcs1		1.972	1.992	99	0.00
	55	mcs2		1.968	1.988	98.99	0.00
	55	mcs3		1.968	1.988	98.99	0.00
	55	mcs4		2.080	2.100	99.05	0.00
	55	mcs5		2.080	2.100	99.05	0.00
	55	mcs6		2.080	2.102	98.95	0.00
	55	mcs7		2.080	2.100	99.05	0.00
802.11 ac20	59	mcs0	5180	2.484	2.504	99.2	0.00
	59	mcs1		2.456	2.476	99.19	0.00
	59	mcs2		2.452	2.472	99.19	0.00
	59	mcs3		2.448	2.468	99.19	0.00
	59	mcs4		2.448	2.468	99.19	0.00
	59	mcs5		2.448	2.468	99.19	0.00
	59	mcs6		2.448	2.468	99.19	0.00
	59	mcs6		2.636	2.656	99.25	0.00

	59	mcs7		2.588	2.608	99.23	0.00
	52	mcs8		2.516	2.536	99.21	0.00
802.11 ac40	55	mcs0	5190	4.700	4.718	99.62	0.00
	55	mcs1		4.680	4.700	99.57	0.00
	55	mcs2		4.672	4.692	99.57	0.00
	55	mcs3		4.668	4.688	99.57	0.00
	55	mcs4		4.992	5.012	99.6	0.00
	55	mcs5		4.816	4.836	99.59	0.00
	55	mcs6		4.756	7.776	99.58	0.00
	55	mcs7		4.924	4.944	99.6	0.00
	52	mcs8		4.816	4.836	99.59	0.00
	52	mcs9		3.000	3.000	100	0.00
802.11 ac80	58	mcs0	5210	5.230	5.250	99.62	0.00
	58	mcs1		5.228	5.248	99.62	0.00
	58	mcs2		5.388	5.408	99.63	0.00
	58	mcs3		5.276	5.296	99.62	0.00
	56	mcs4		5.448	5.470	99.6	0.00
	56	mcs5		5.400	5.420	99.63	0.00
	52	mcs6		5.272	5.294	99.58	0.00
	52	mcs7		5.416	5.436	99.63	0.00
	48	mcs8		5.420	5.442	99.6	0.00
	48	mcs9		5.260	5.280	99.62	0.00
802.11 ax20	59	mcs0	5180	2.092	2.112	99.05	0.00
	59	mcs1		2.074	2.094	99.04	0.00
	59	mcs2		2.072	2.092	99.04	0.00
	59	mcs3		2.068	2.088	99.04	0.00
	59	mcs4		2.064	2.086	99.04	0.00
	59	mcs5		2.264	2.286	99.04	0.00
	59	mcs6		2.196	2.216	99.1	0.00
	59	mcs7		2.146	2.166	99.08	0.00
	52	mcs8		2.196	2.216	99.1	0.00
	52	mcs9		2.104	2.124	99.06	0.00
	40	mcs10		2.196	2.216	99.1	0.00
	40	mcs11		2.176	2.196	99.09	0.00
802.11 ax40	55	mcs0	5190	4.090	4.110	99.51	0.00
	55	mcs1		4.074	4.092	99.56	0.00
	55	mcs2		4.070	4.090	99.51	0.00
	55	mcs3		4.468	4.488	99.55	0.00
	55	mcs4		4.334	4.354	99.54	0.00

802.11 ax80	55	mcs5	5210	4.268	4.288	99.53	0.00
	55	mcs6		4.160	4.180	99.52	0.00
	55	mcs7		4.226	4.246	99.53	0.00
	52	mcs8		4.202	4.222	99.53	0.00
	52	mcs9		4.148	4.168	99.52	0.00
	40	mcs10		4.226	4.246	99.53	0.00
	40	mcs11		4.128	4.148	99.52	0.00
	58	mcs0		1.976	1.996	99	0.00
	58	mcs1		2.166	2.188	98.99	0.00
	58	mcs2		2.100	2.120	99.06	0.00
	58	mcs3		2.072	2.092	99.04	0.00
	56	mcs4		2.036	2.058	98.93	0.00
	56	mcs5		2.036	2.058	98.93	0.00
	52	mcs6		1.996	2.016	99.01	0.00
802.11 ax80	52	mcs7	5210	2.004	2.024	99.01	0.00
	48	mcs8		2.018	2.038	99.02	0.00
	48	mcs9		2.004	2.026	98.91	0.00
	36	mcs10		2.004	2.024	99.01	0.00
	36	mcs11		2.004	2.026	98.91	0.00

UNII1:

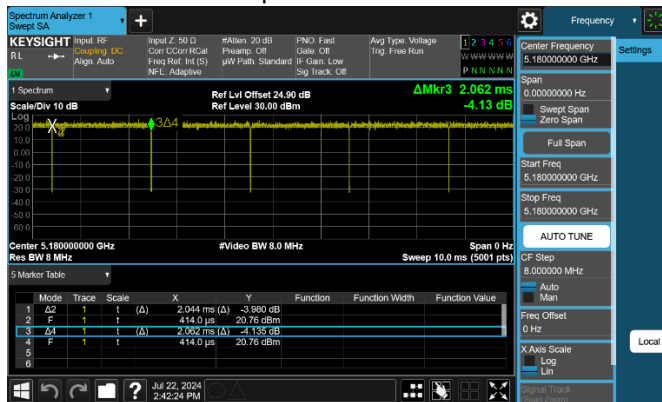
802.11 a, Low Channel – 802.11a NOHT, (5180MHz), combined (both chains)

6 Mbps

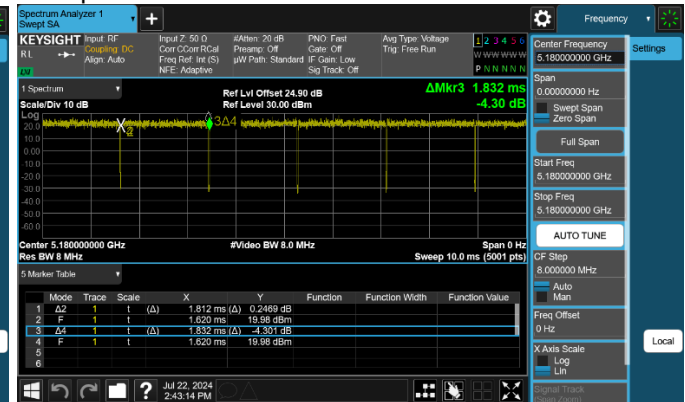
9 Mbps



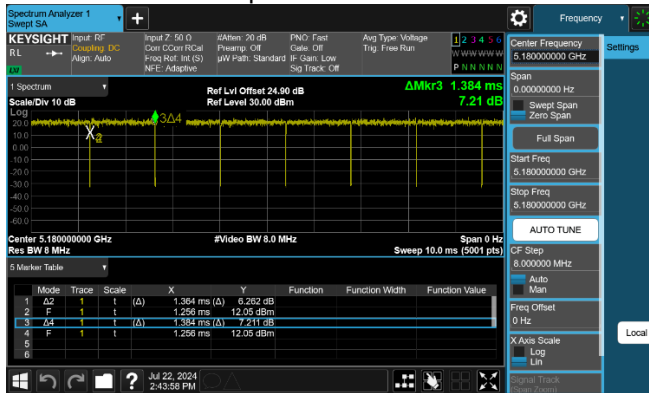
12 Mbps



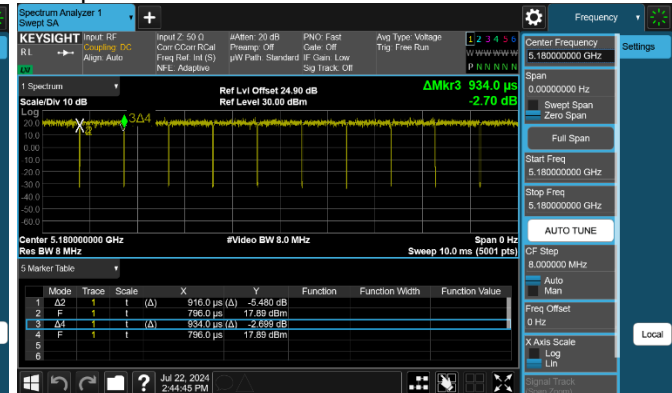
18 Mbps



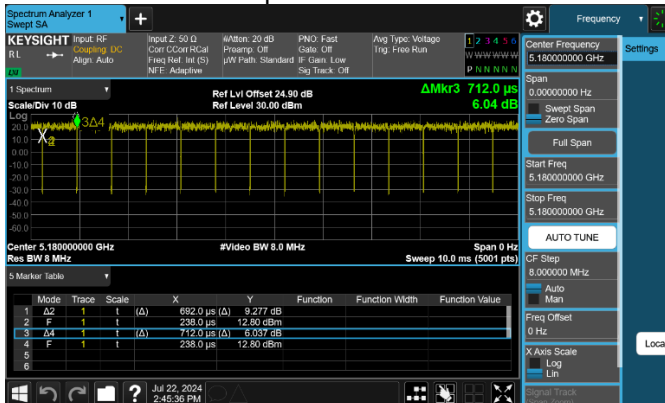
24 Mbps



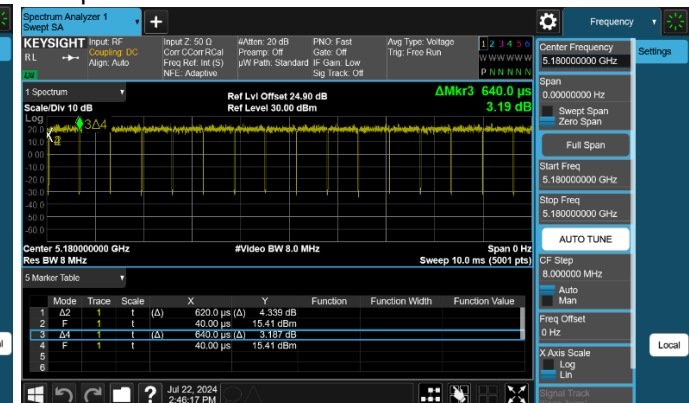
36 Mbps



48 Mbps



54 Mbps



UNIII1:

802.11 n20, Low Channel – 802.11a NOHT, (5180MHz), combined (both chains)

mcs0

mcs1



mcs2

mcs3



mcs4

mcs5

