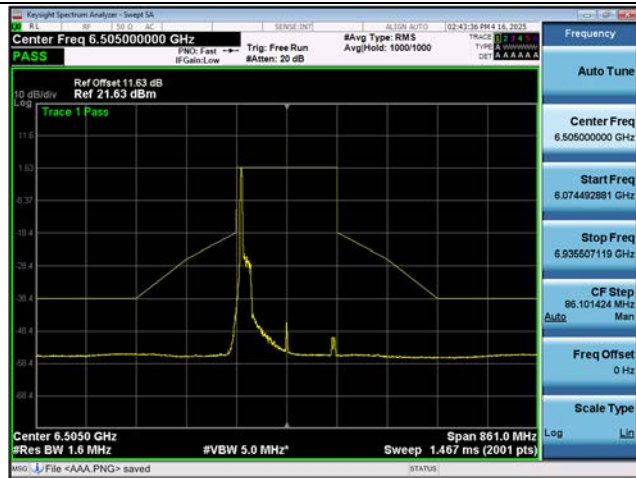
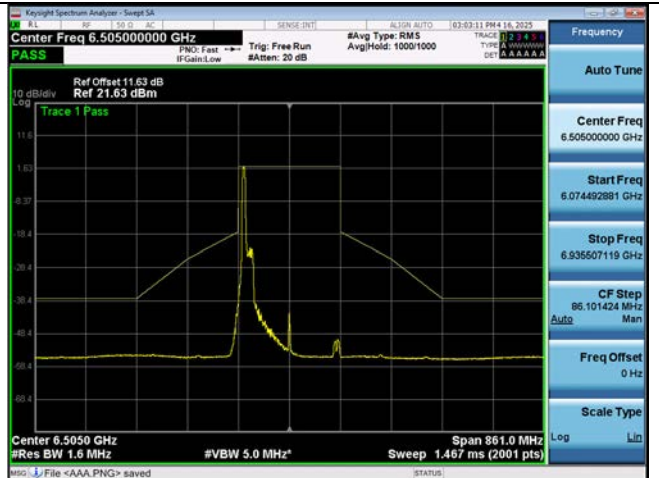


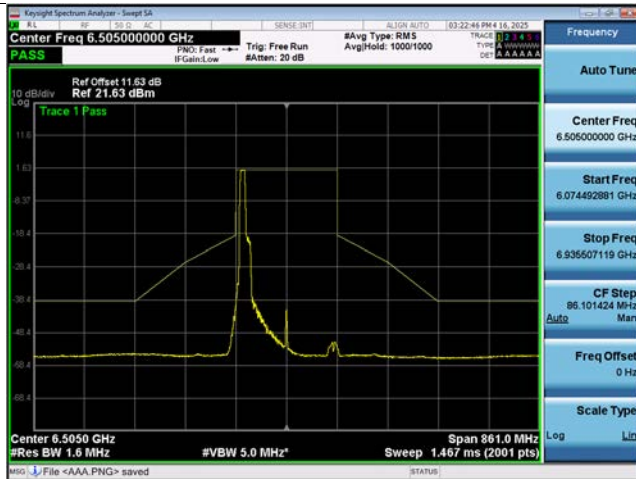
802.11ax HE160M_80L Ch.111(6505 MHz) 26 Tones 0 RU



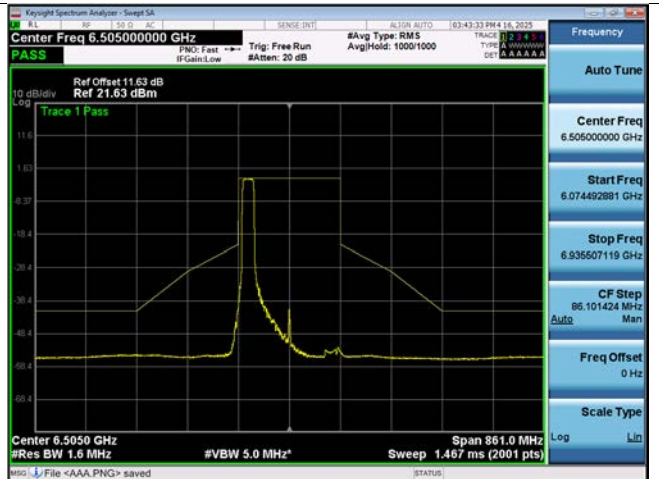
802.11ax HE160M_80L Ch.111(6505 MHz) 52 Tones 37 RU



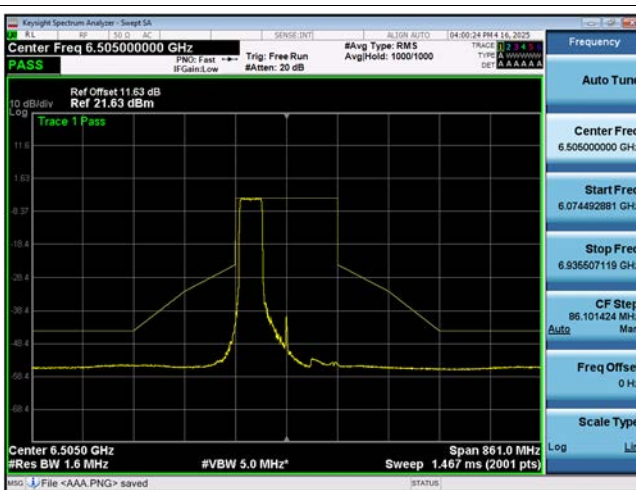
802.11ax HE160M_80L Ch.111(6505 MHz) 106 Tones 53 RU



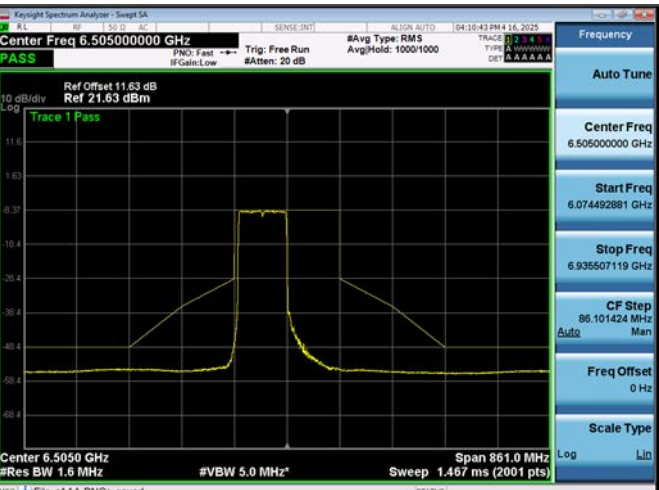
802.11ax HE160M_80L Ch.111(6505 MHz) 242 Tones 61 RU



802.11ax HE160M_80L Ch.111(6505 MHz) 484 Tones 65 RU



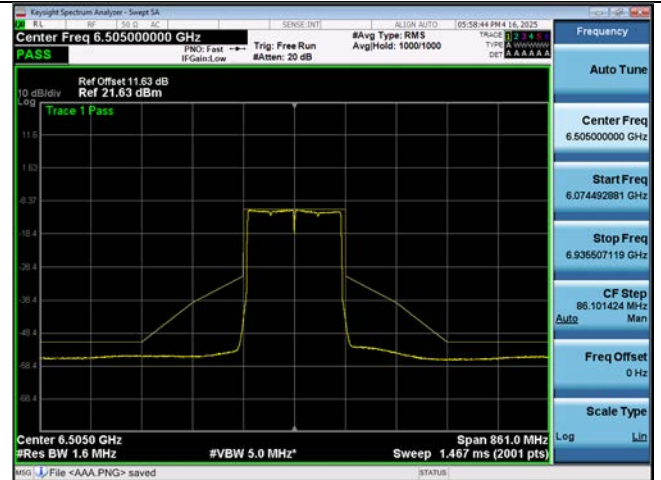
802.11ax HE160M_80L Ch.111(6505 MHz) 996 Tones 67 RU



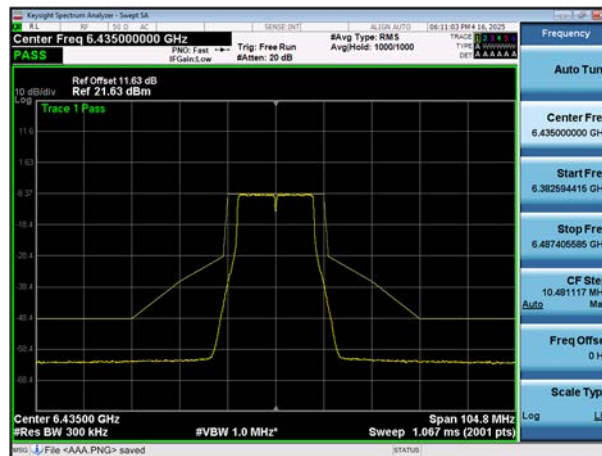
802.11ax HE160M Ch.111(6505 MHz) SU



802.11ax HE160M Ch.111(6505 MHz) 2x996 Tones 68 RU



802.11a Ch.97(6435 MHz)



[Standard Client]

[Ant.1]

802.11ax HE20M Ch.117(6535 MHz) 26 Tones 0 RU



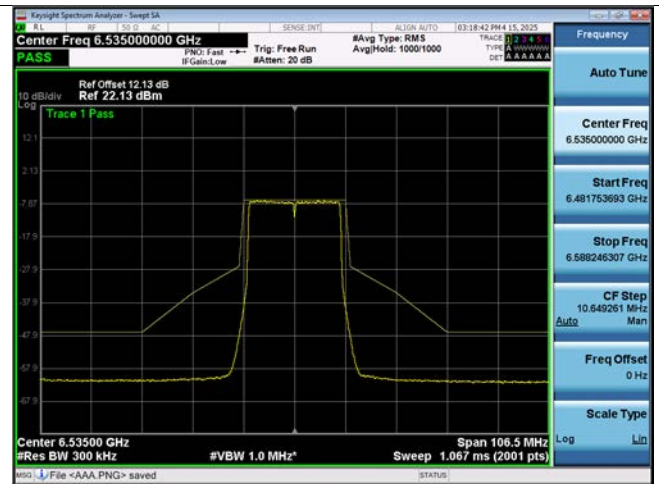
802.11ax HE20M Ch.117(6535 MHz) 52 Tones 37 RU



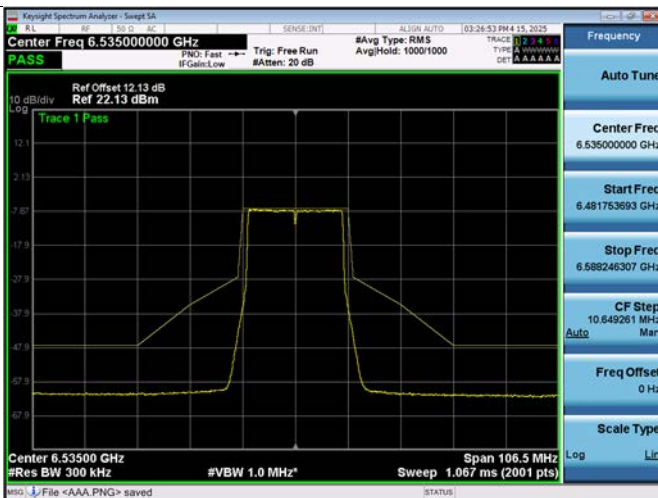
802.11ax HE20M Ch.117(6535 MHz) 106 Tones 53 RU



802.11ax HE20M Ch.117(6535 MHz) 242 Tones 61 RU



802.11ax HE20M Ch.117(6535 MHz) SU



802.11ax HE40M Ch.91(6405 MHz) 26 Tones 0 RU



802.11ax HE40M Ch.91(6405 MHz) 52 Tones 37 RU



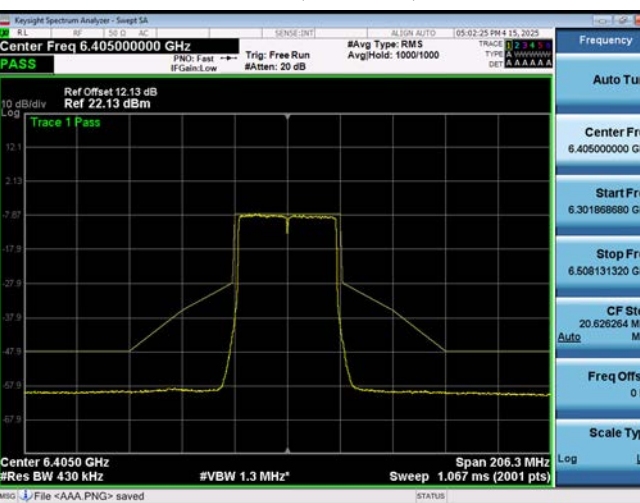
802.11ax HE40M Ch.91(6405 MHz) 106 Tones 53 RU



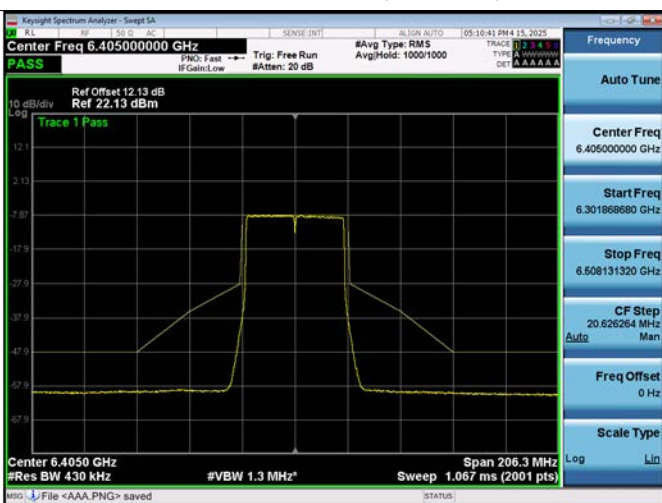
802.11ax HE40M Ch.91(6405 MHz) 242 Tones 61 RU



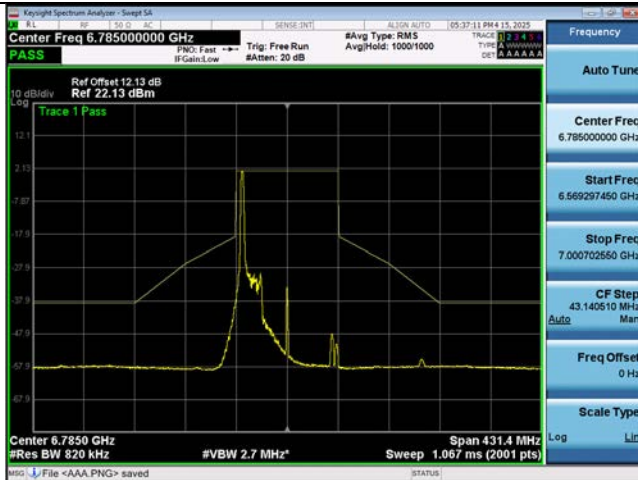
802.11ax HE40M Ch.91(6405 MHz) 484 Tones 65 RU



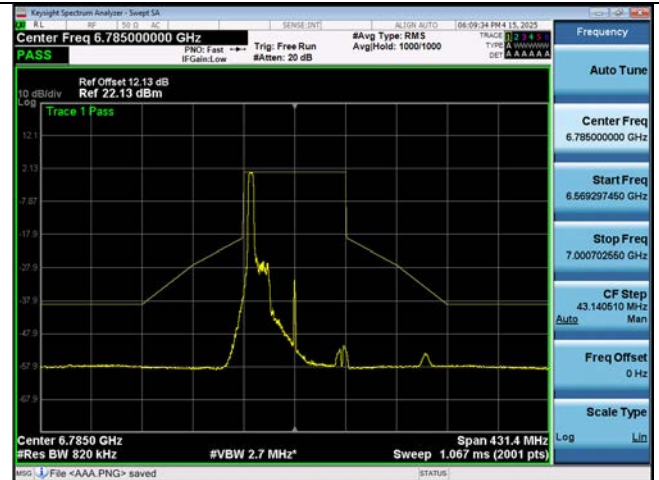
802.11ax HE40M Ch.91(6405 MHz) SU



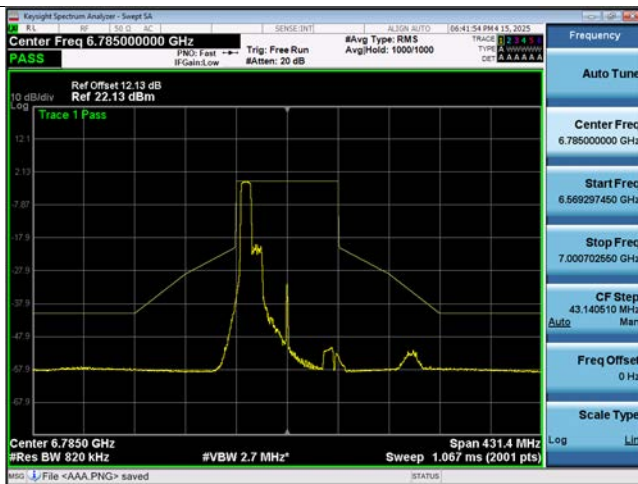
802.11ax HE80M Ch.167(6785 MHz) 26 Tones 0 RU



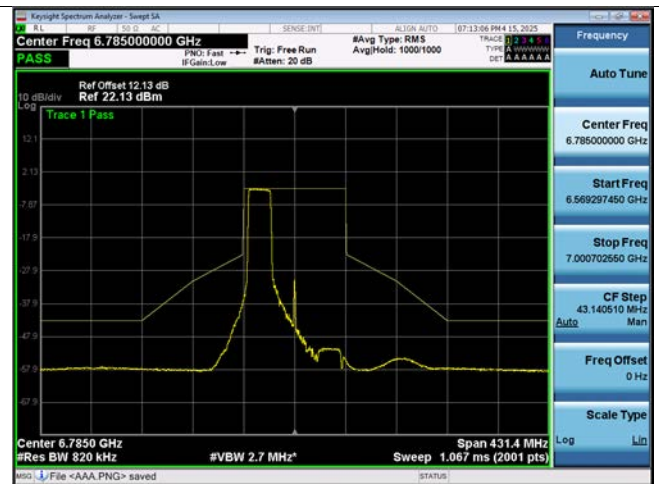
802.11ax HE80M Ch.167(6785 MHz) 52 Tones 37 RU



802.11ax HE80M Ch.167(6785 MHz) 106 Tones 53 RU



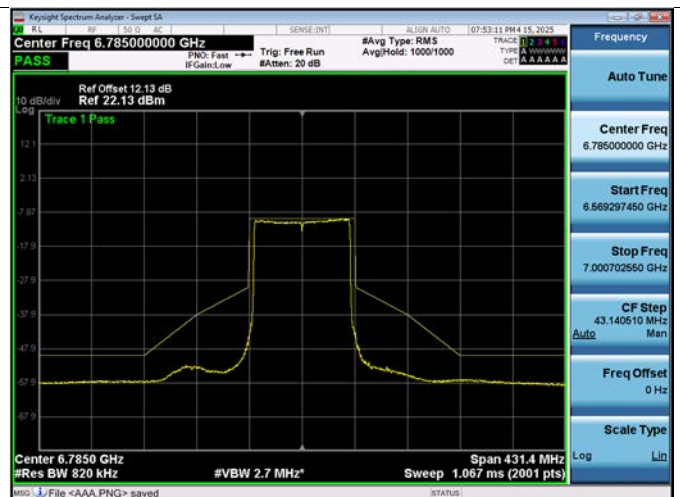
802.11ax HE80M Ch.167(6785 MHz) 242 Tones 61 RU



802.11ax HE80M Ch.167(6785 MHz) 484 Tones 65 RU



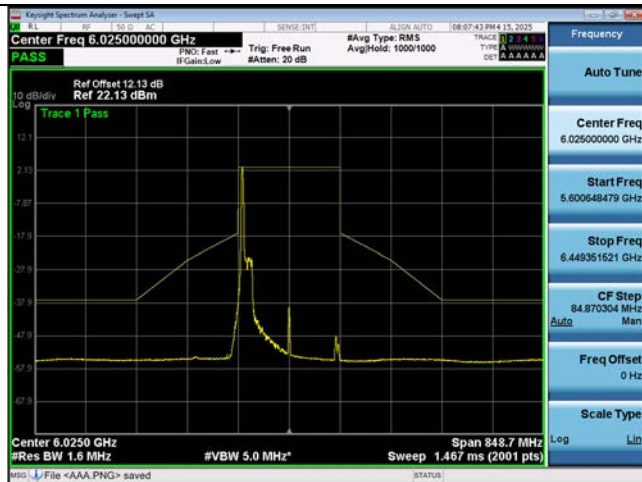
802.11ax HE80M Ch.167(6785 MHz) 996 Tones 67 RU



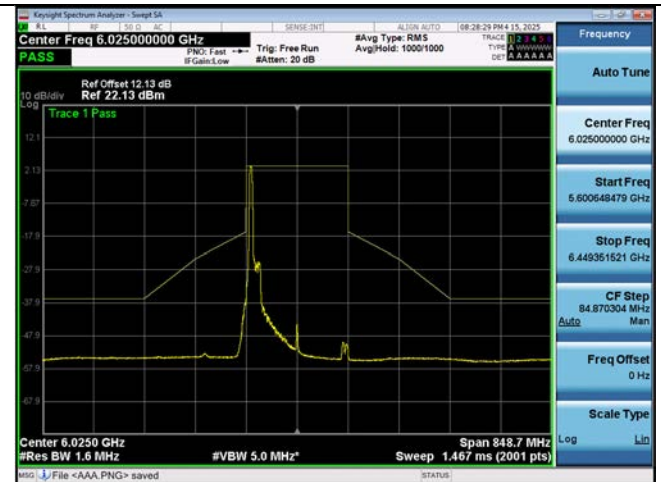
802.11ax HE80M Ch.167(6785 MHz) SU



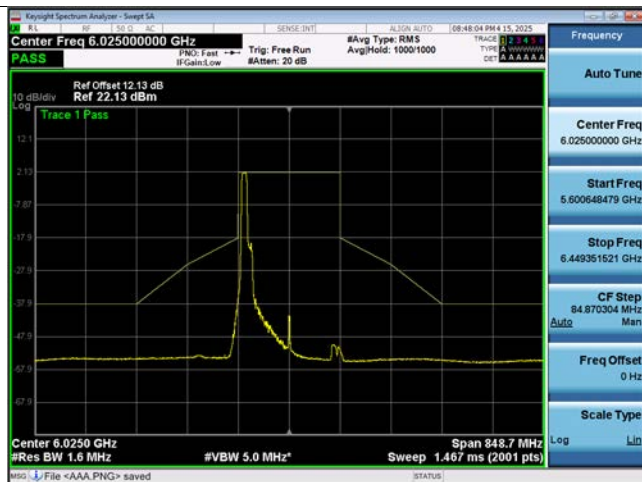
802.11ax HE160M_80L Ch.15(6025 MHz) 26 Tones 0 RU



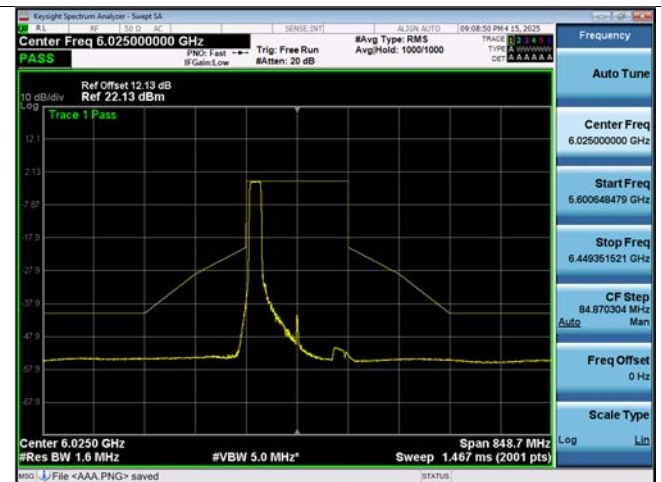
802.11ax HE160M_80L Ch.15(6025 MHz) 52 Tones 37 RU



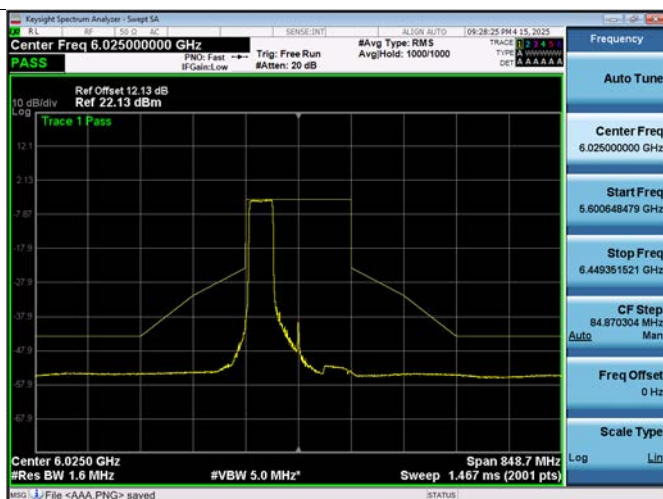
802.11ax HE160M_80L Ch.15(6025 MHz) 106 Tones 53 RU



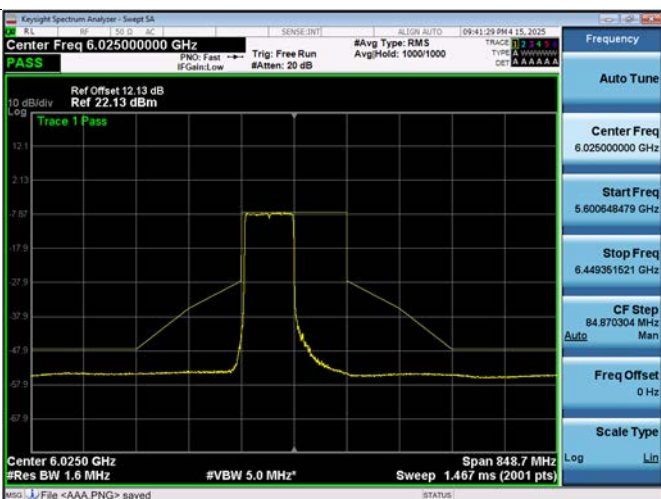
802.11ax HE160M_80L Ch.15(6025 MHz) 242 Tones 61 RU



802.11ax HE160M_80L Ch.15(6025 MHz) 484 Tones 65 RU



802.11ax HE160M_80L Ch.15(6025 MHz) 996 Tones 67 RU



Bandwidth 160M, Ch.15(6025 MHz) SU



Bandwidth 160M, Ch.15(6025 MHz) 2x996 Tones 68 RU

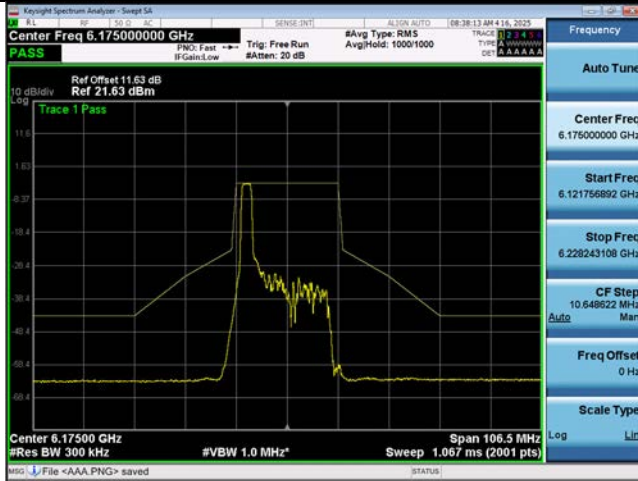


802.11a Ch.2(5935 MHz)



[Ant.2]

802.11ax HE20M Ch.45(6175 MHz) 26 Tones 0 RU



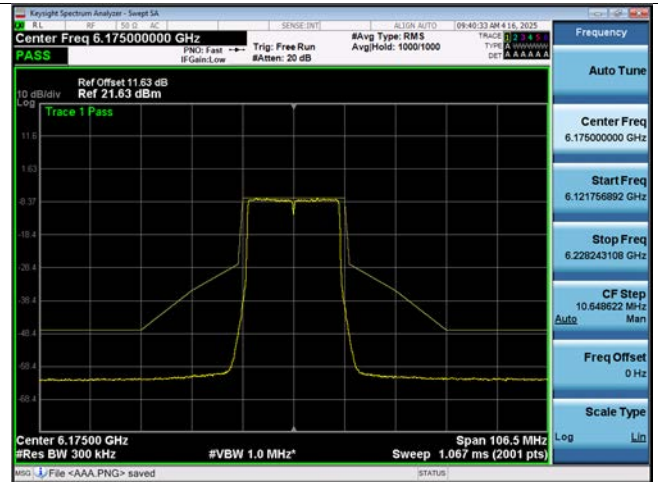
802.11ax HE20M Ch.45(6175 MHz) 52 Tones 37 RU



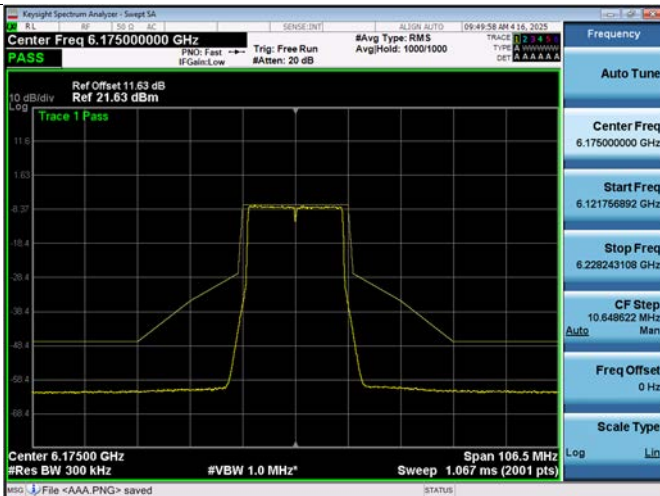
802.11ax HE20M Ch.45(6175 MHz) 106 Tones 53 RU



802.11ax HE20M Ch.45(6175 MHz) 242 Tones 61 RU



802.11ax HE20M Ch.45(6175 MHz) SU



802.11ax HE40M Ch.123(6565 MHz) 26 Tones 0 RU



802.11ax HE40M Ch.123(6565 MHz) 52 Tones 37 RU



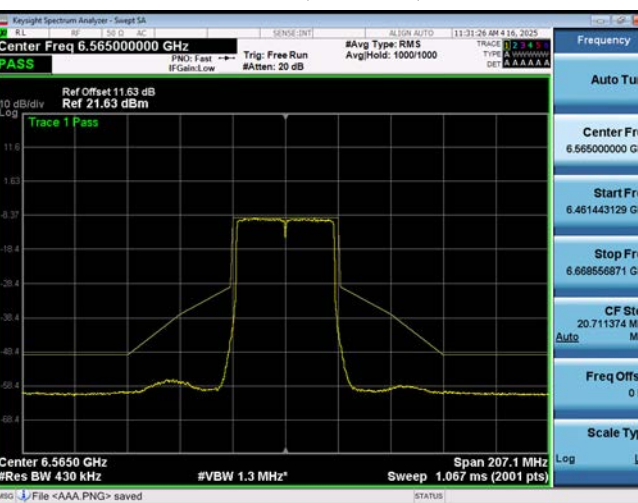
802.11ax HE40M Ch.123(6565 MHz) 106 Tones 53 RU



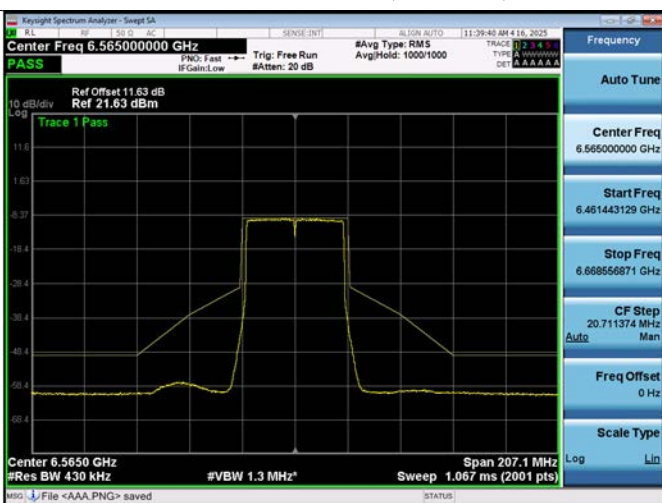
802.11ax HE40M Ch.123(6565 MHz) 242 Tones 61 RU



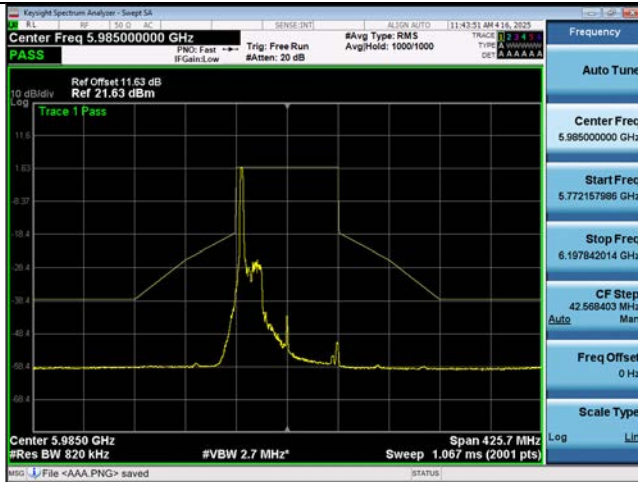
802.11ax HE40M Ch.123(6565 MHz) 484 Tones 65 RU



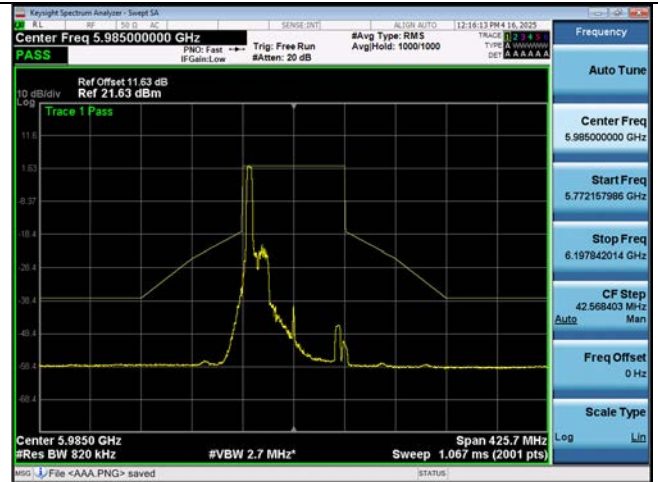
802.11ax HE40M Ch.123(6565 MHz) SU



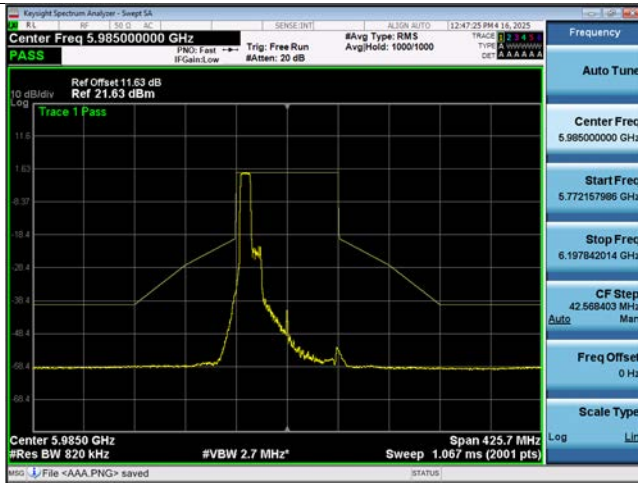
802.11ax HE80M Ch.7(5985 MHz) 26 Tones 0 RU



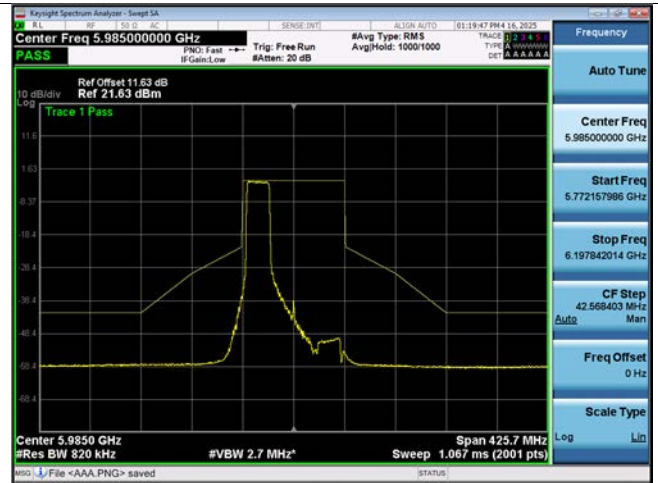
802.11ax HE80M Ch.7(5985 MHz) 52 Tones 37 RU



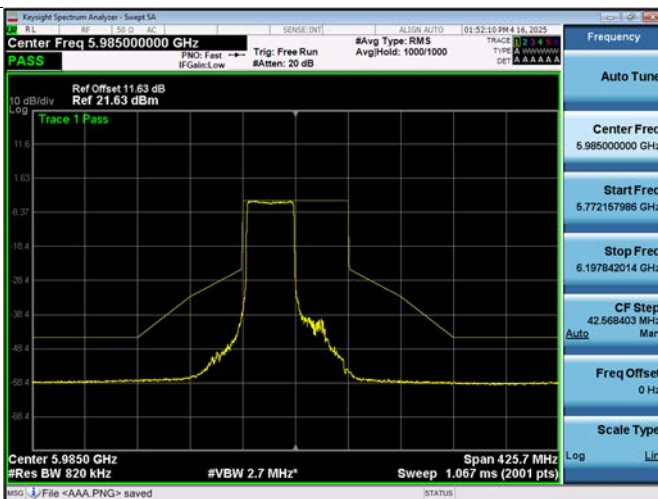
802.11ax HE80M Ch.7(5985 MHz) 106 Tones 53 RU



802.11ax HE80M Ch.7(5985 MHz) 242 Tones 61 RU



802.11ax HE80M Ch.7(5985 MHz) 484 Tones 65 RU



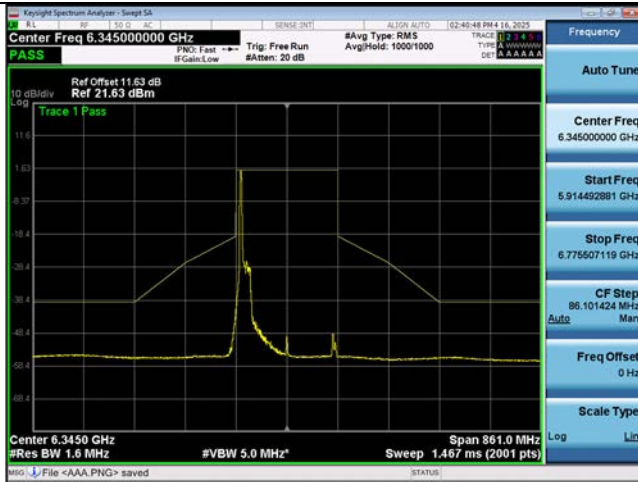
802.11ax HE80M Ch.7(5985 MHz) 996 Tones 67 RU



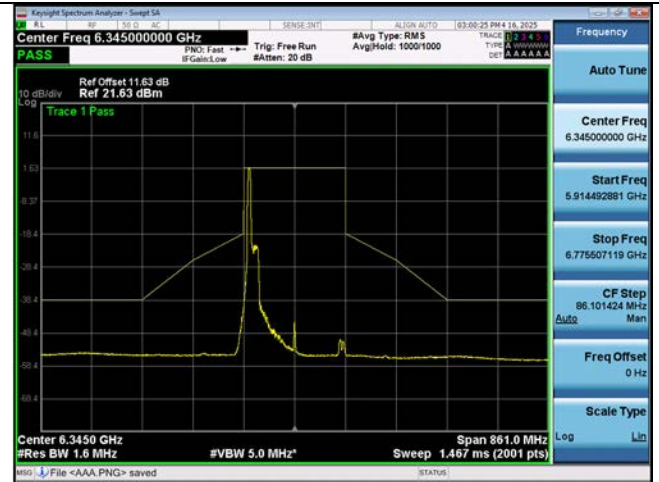
802.11ax HE80M Ch.7(5985 MHz) SU



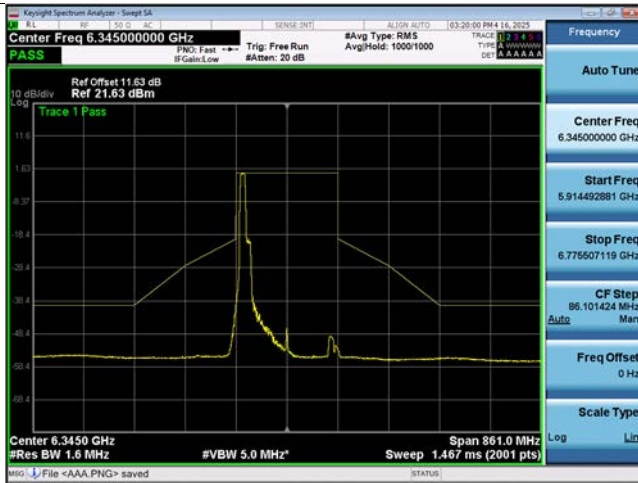
802.11ax HE160M_80L Ch.79(6345 MHz) 26 Tones 0 RU



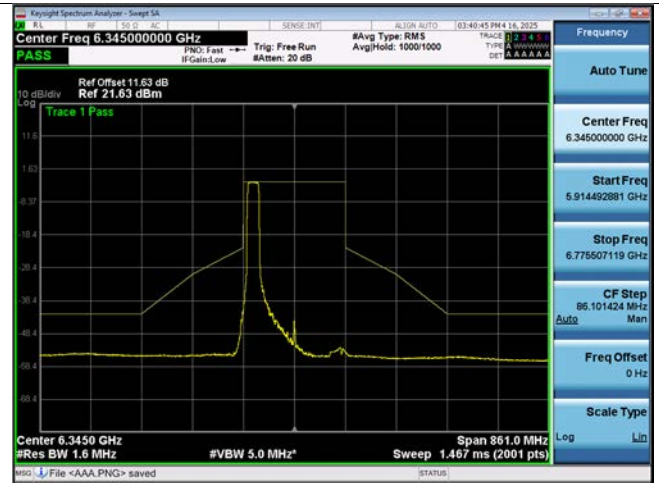
802.11ax HE160M_80L Ch.79(6345 MHz) 52 Tones 37 RU



802.11ax HE160M_80L Ch.79(6345 MHz) 106 Tones 53 RU



802.11ax HE160M_80L Ch.79(6345 MHz) 242 Tones 61 RU



802.11ax HE160M_80L Ch.79(6345 MHz) 484 Tones 65 RU



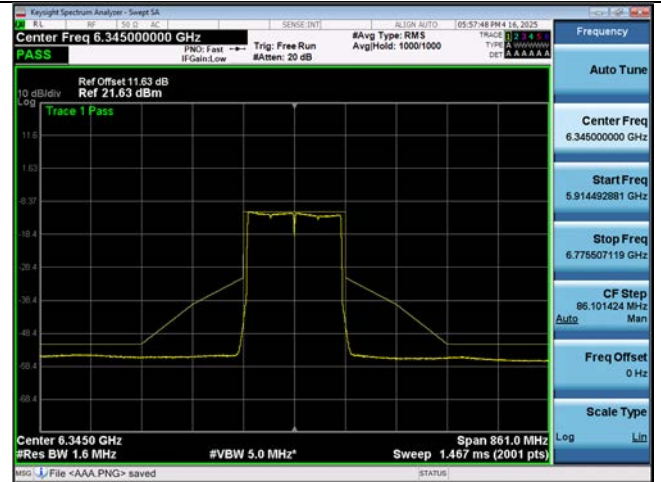
802.11ax HE160M_80L Ch.79(6345 MHz) 996 Tones 67 RU



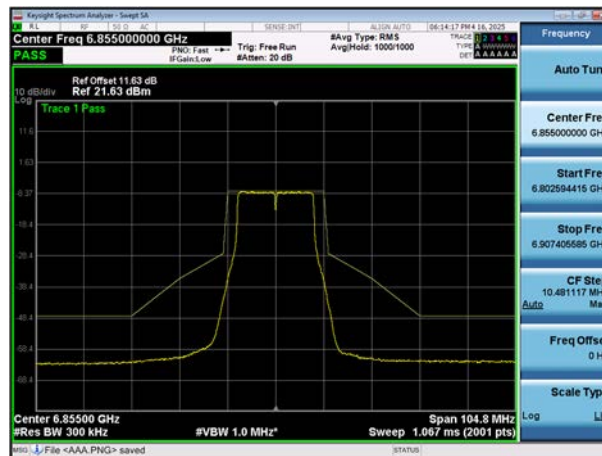
802.11ax HE160M Ch.79(6345 MHz) SU



802.11ax HE160M Ch.79(6345 MHz) 2x996 Tones 68 RU



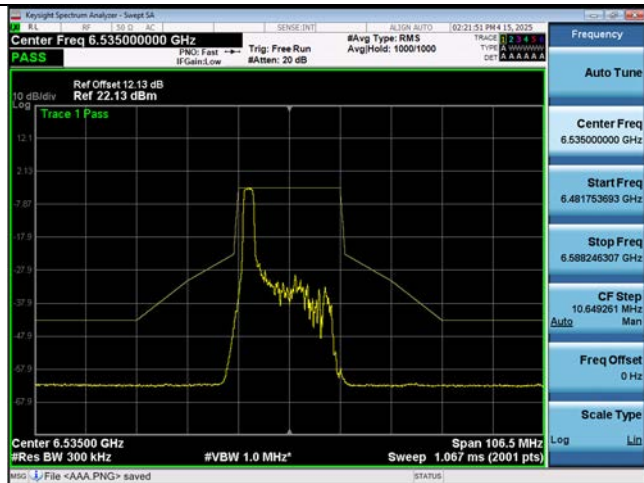
802.11a Ch.181(6855 MHz)



[Very Low Power Device]

[Ant.1]

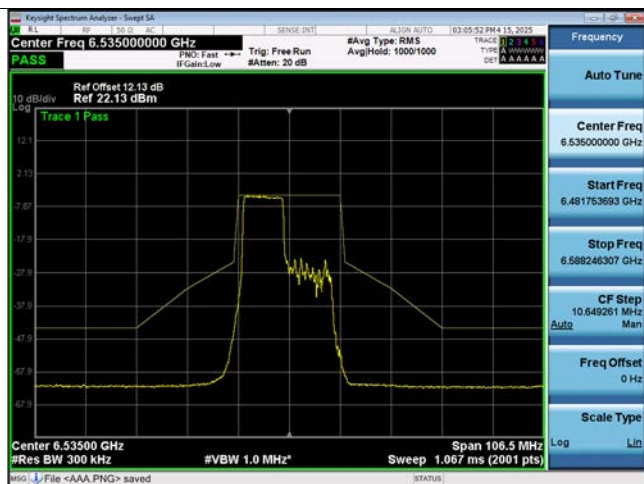
802.11ax HE20M Ch.117(6535 MHz) 26 Tones 0 RU



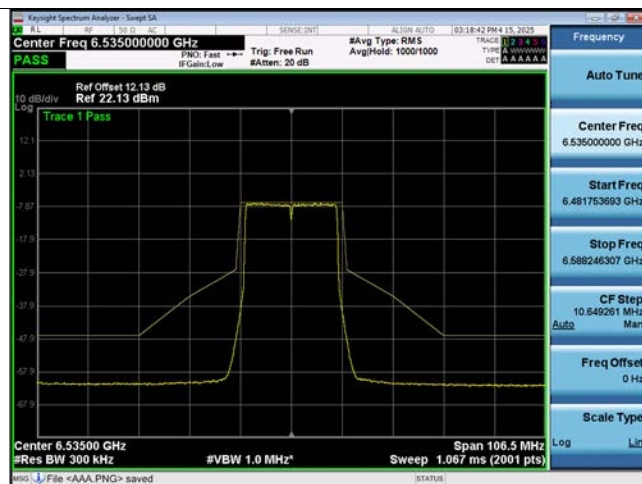
802.11ax HE20M Ch.117(6535 MHz) 52 Tones 37 RU



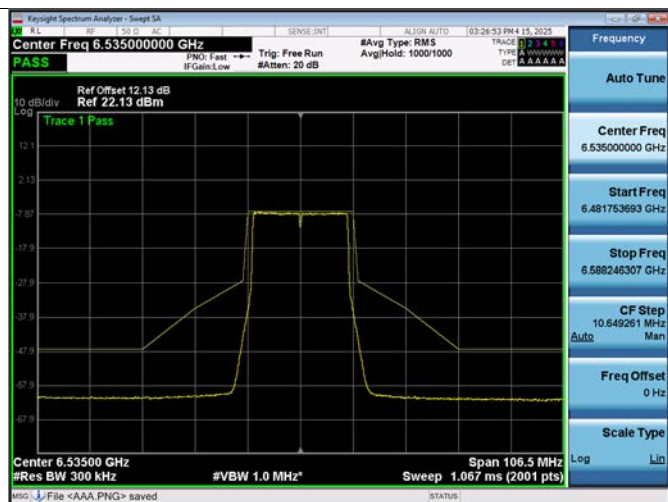
802.11ax HE20M Ch.117(6535 MHz) 106 Tones 53 RU



802.11ax HE20M Ch.117(6535 MHz) 242 Tones 61 RU



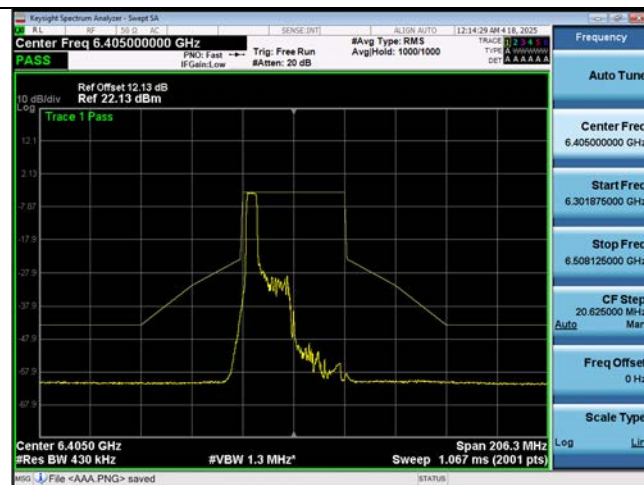
802.11ax HE20M Ch.117(6535 MHz) SU



802.11ax HE40M Ch.91(6405 MHz) 26 Tones 0 RU



802.11ax HE40M Ch.91(6405 MHz) 52 Tones 37 RU



802.11ax HE40M Ch.91(6405 MHz) 106 Tones 53 RU



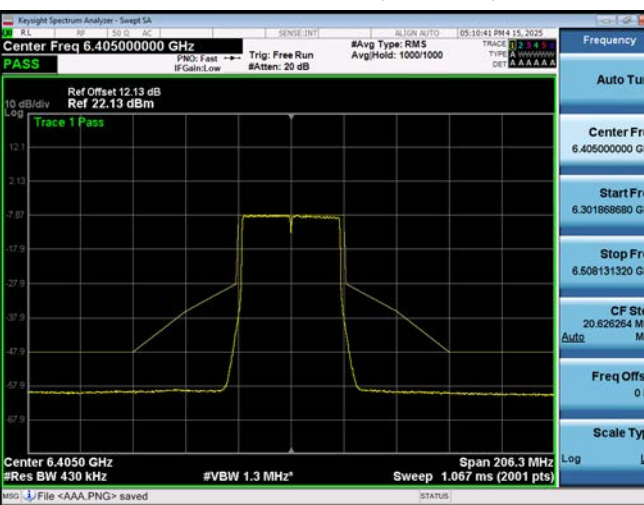
802.11ax HE40M Ch.91(6405 MHz) 242 Tones 61 RU



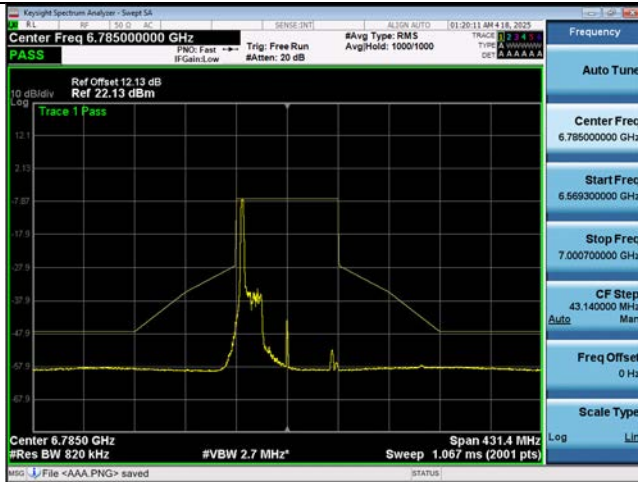
802.11ax HE40M Ch.91(6405 MHz) 484 Tones 65 RU



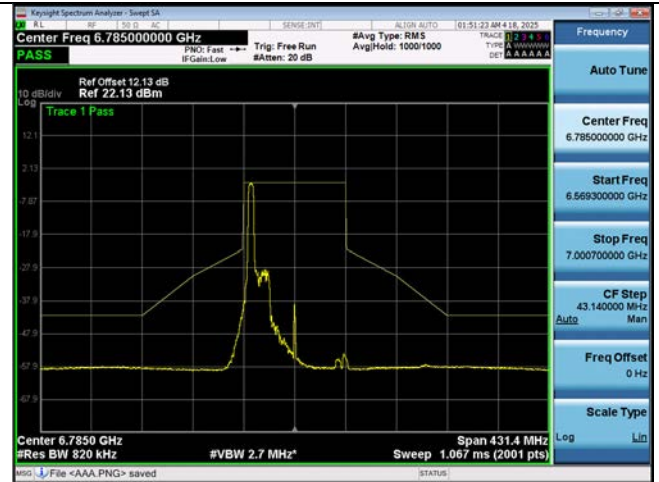
802.11ax HE40M Ch.91(6405 MHz) SU



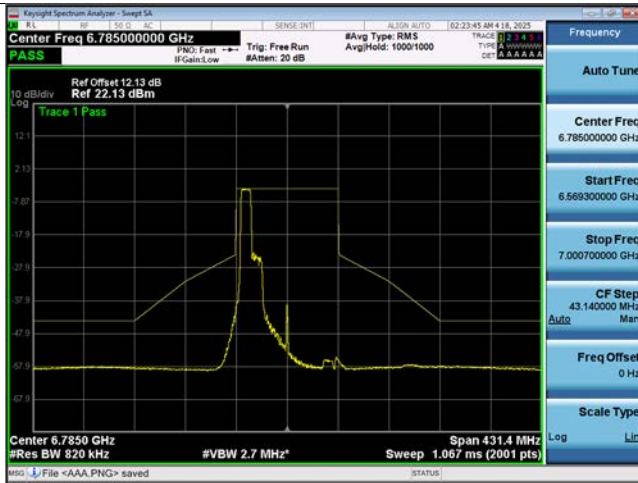
802.11ax HE80M Ch.167(6785 MHz) 26 Tones 0 RU



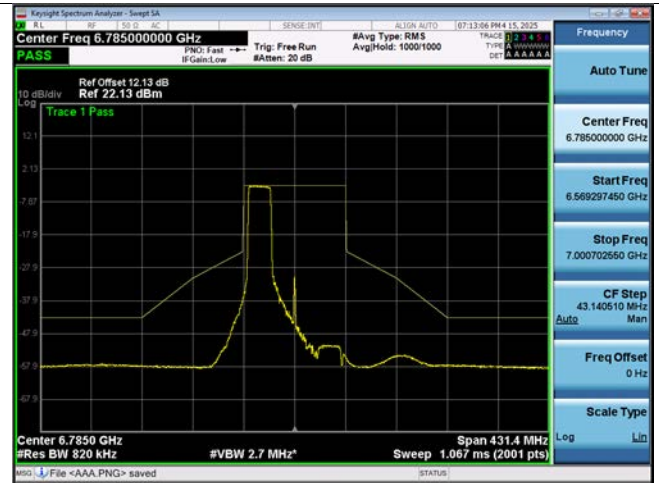
802.11ax HE80M Ch.167(6785 MHz) 52 Tones 37 RU



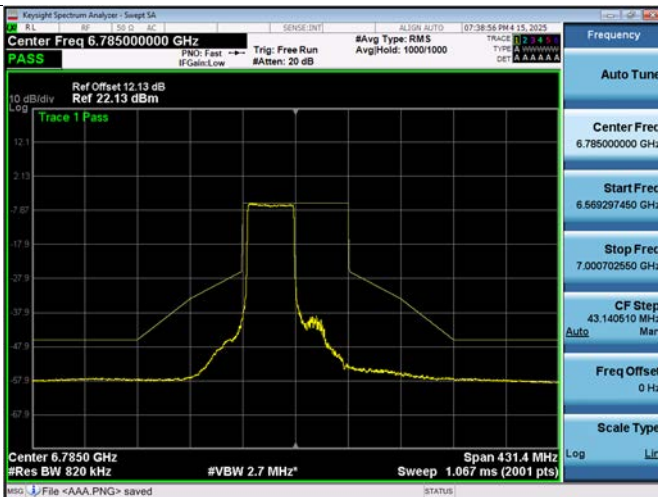
802.11ax HE80M Ch.167(6785 MHz) 106 Tones 53 RU



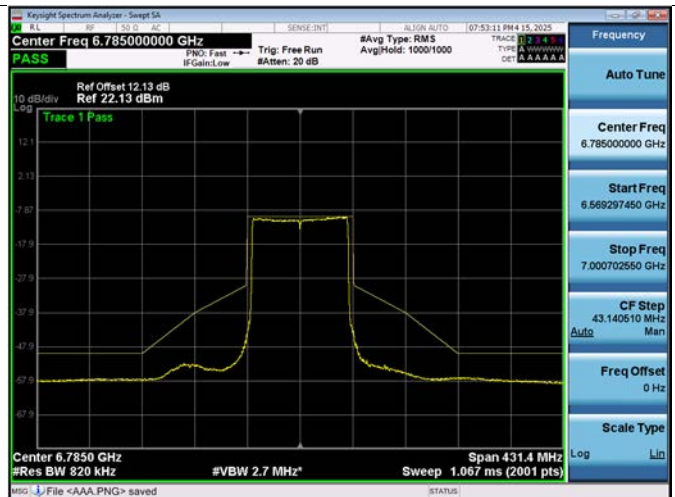
802.11ax HE80M Ch.167(6785 MHz) 242 Tones 61 RU



802.11ax HE80M Ch.167(6785 MHz) 484 Tones 65 RU



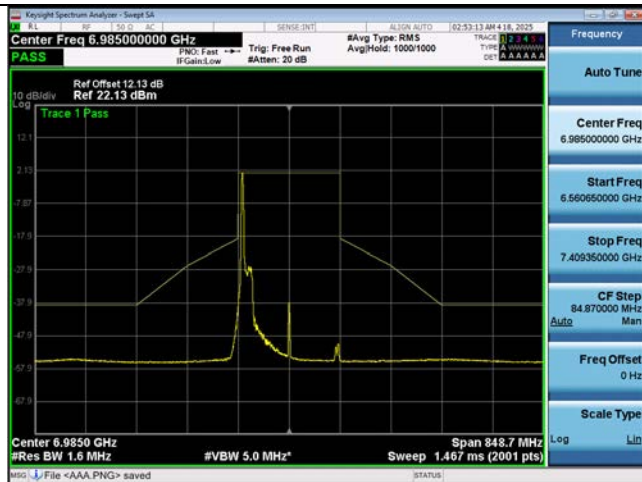
802.11ax HE80M Ch.167(6785 MHz) 996 Tones 67 RU



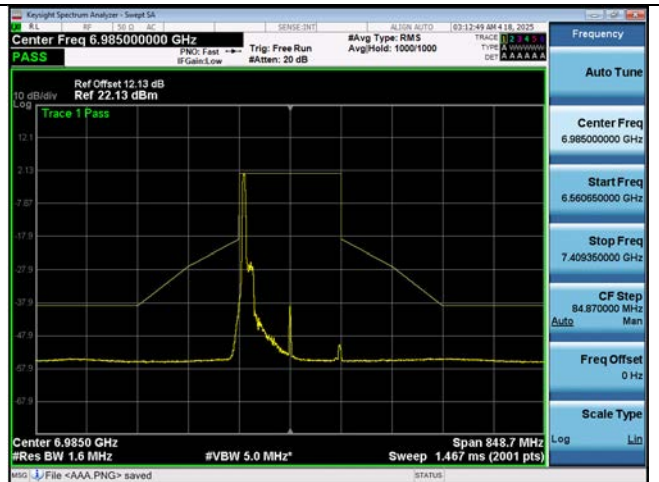
802.11ax HE80M Ch.167(6785 MHz) SU



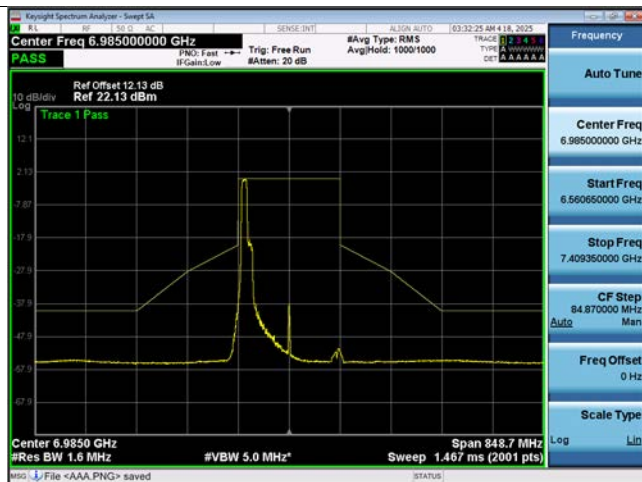
802.11ax HE160M_80L Ch.207(6985 MHz) 26 Tones 0 RU



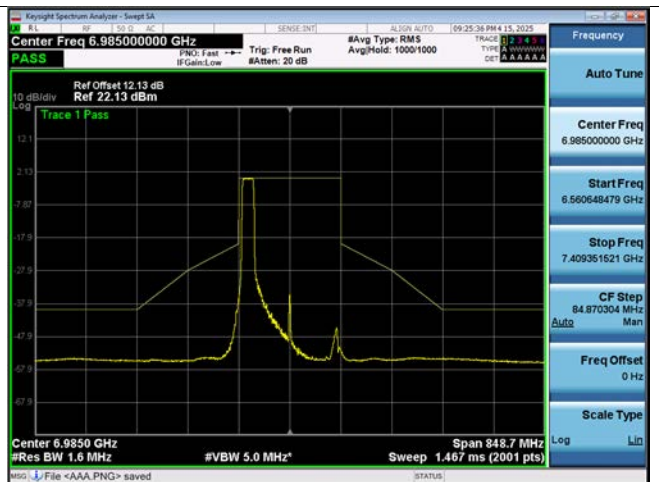
802.11ax HE160M_80L Ch.207(6985 MHz) 52 Tones 37 RU



802.11ax HE160M_80L Ch.207(6985 MHz) 106 Tones 53 RU



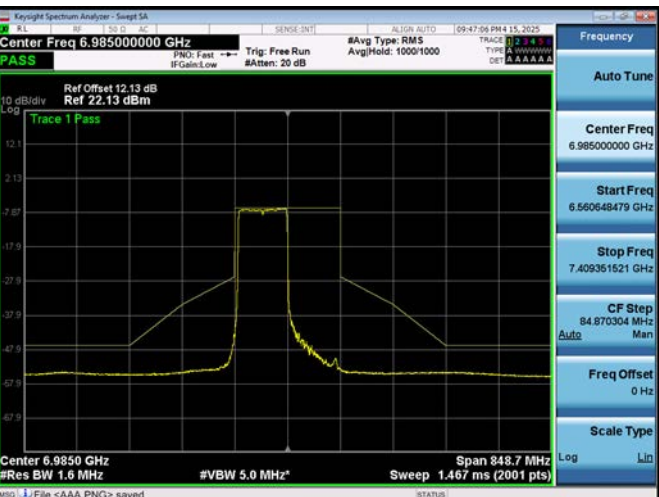
802.11ax HE160M_80L Ch.207(6985 MHz) 242 Tones 61 RU



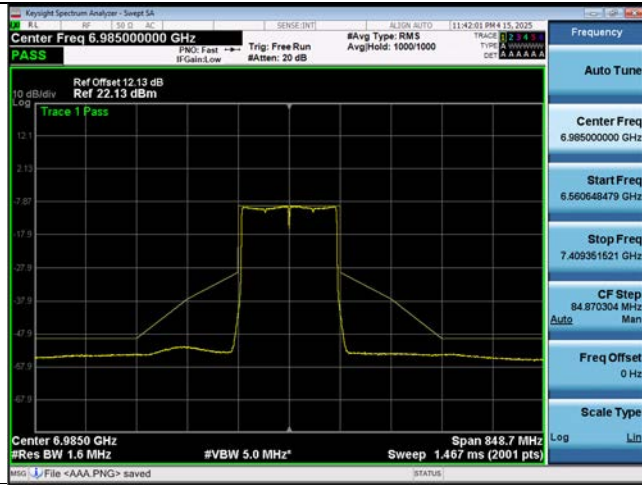
802.11ax HE160M_80L Ch.207(6985 MHz) 484 Tones 65 RU



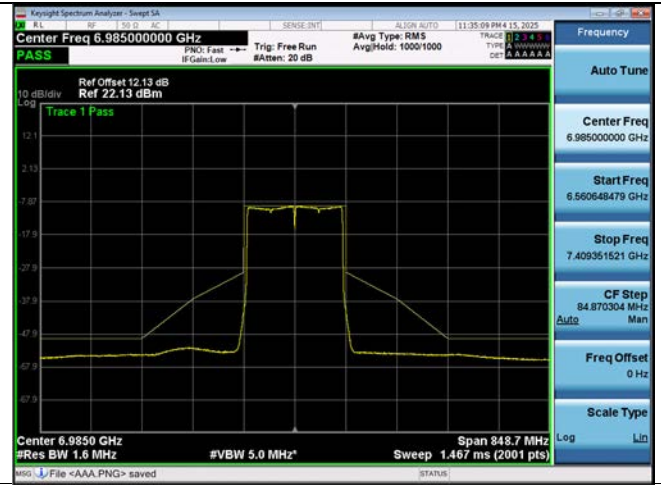
802.11ax HE160M_80L Ch.207(6985 MHz) 996 Tones 67 RU



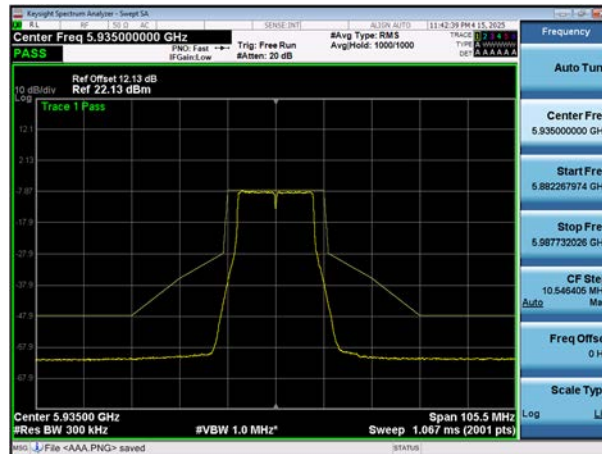
802.11ax HE160M Ch.207(6985 MHz) SU



802.11ax HE160M Ch.207(6985 MHz) 2x996 Tones 68 RU

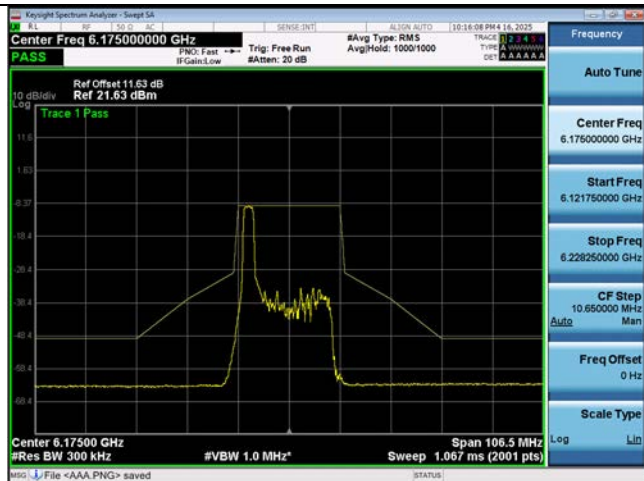


802.11a Ch.2(5935 MHz)



[Ant.2]

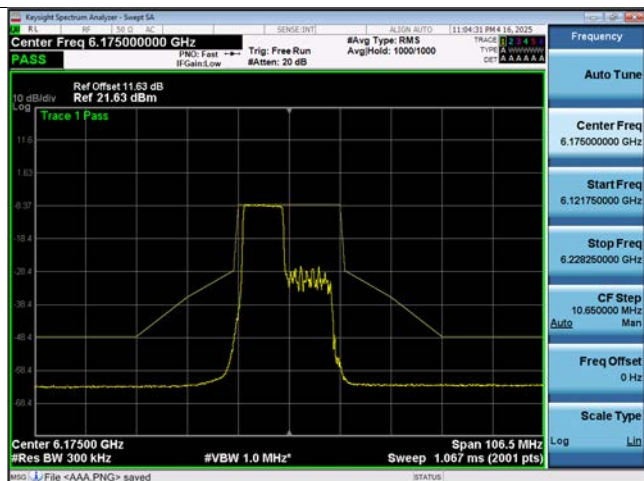
802.11ax HE20M Ch.45(6175 MHz) 26 Tones 0 RU



802.11ax HE20M Ch.45(6175 MHz) 52 Tones 37 RU



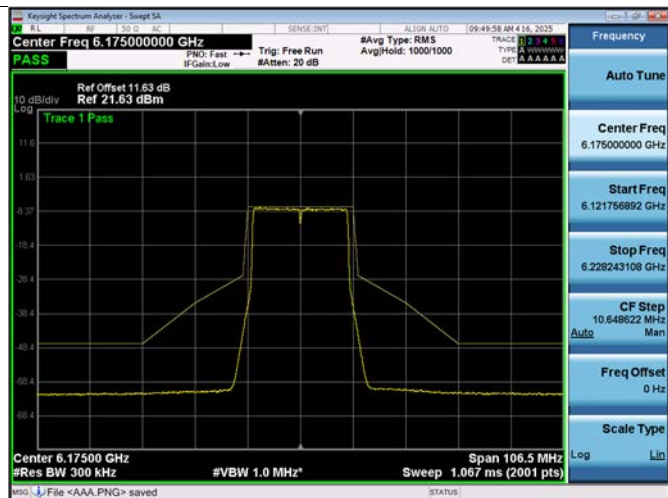
802.11ax HE20M Ch.45(6175 MHz) 106 Tones 53 RU



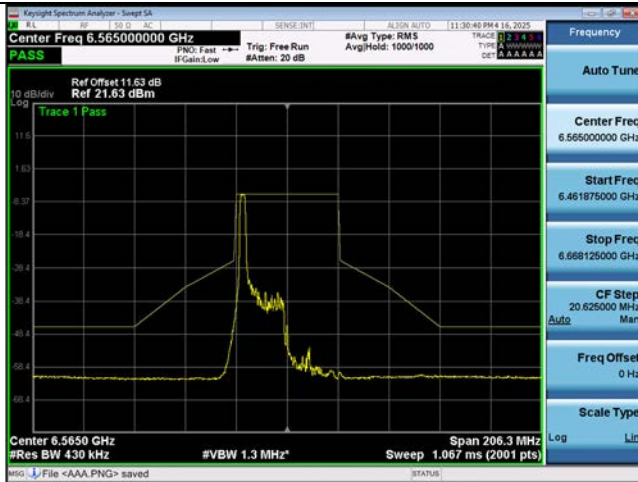
802.11ax HE20M Ch.45(6175 MHz) 242 Tones 61 RU



802.11ax HE20M Ch.45(6175 MHz) SU



802.11ax HE40M Ch.123(6565 MHz) 26 Tones 0 RU



802.11ax HE40M Ch.123(6565 MHz) 52 Tones 37 RU



802.11ax HE40M Ch.123(6565 MHz) 106 Tones 53 RU



802.11ax HE40M Ch.123(6565 MHz) 242 Tones 61 RU



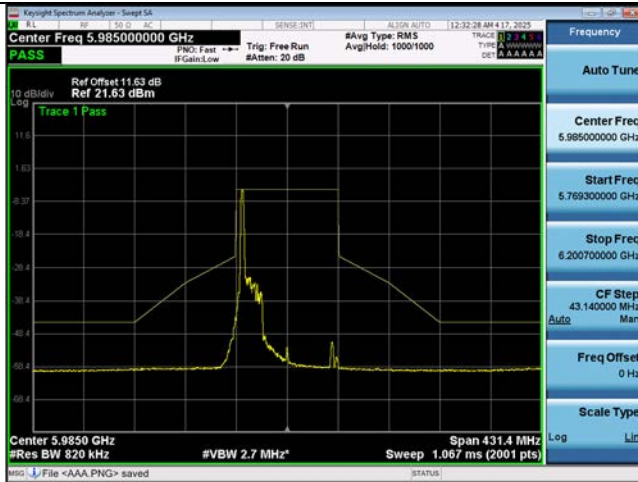
802.11ax HE40M Ch.123(6565 MHz) 484 Tones 65 RU



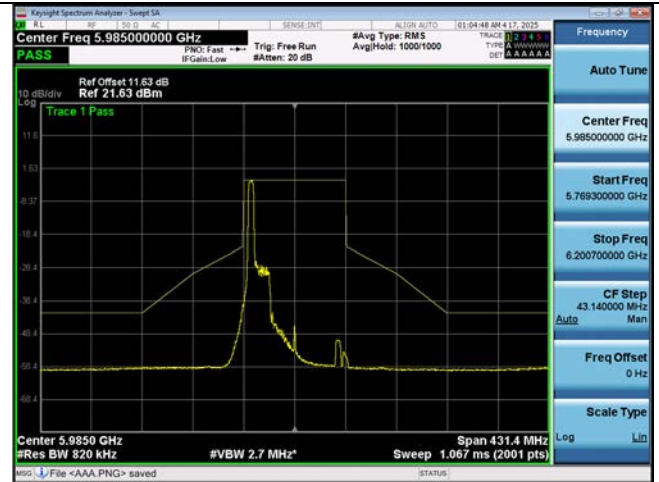
802.11ax HE40M Ch.123(6565 MHz) SU



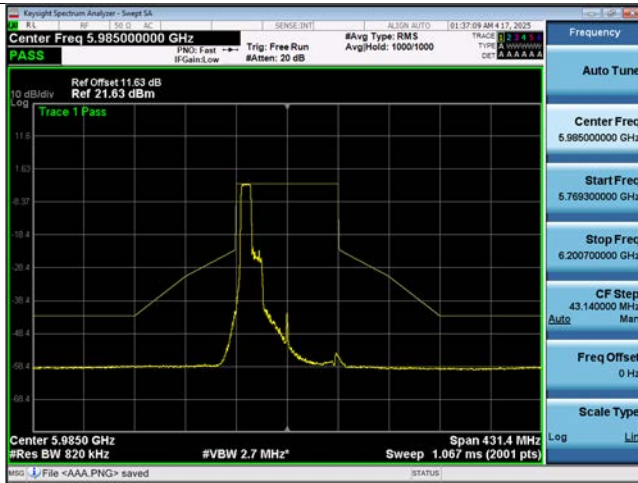
802.11ax HE80M Ch.7(5985 MHz) 26 Tones 0 RU



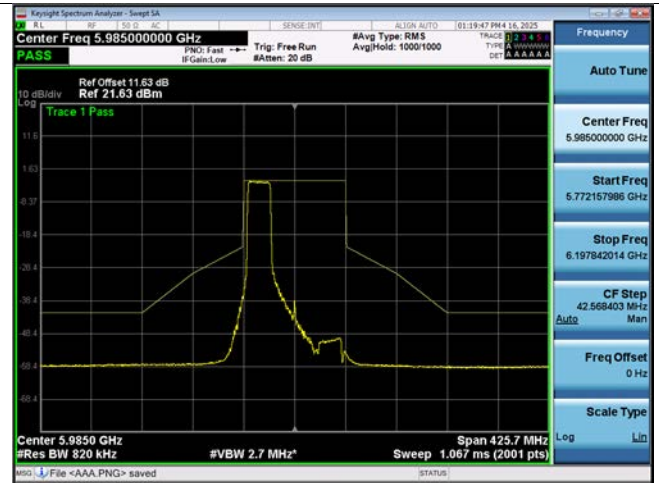
802.11ax HE80M Ch.7(5985 MHz) 52 Tones 37 RU



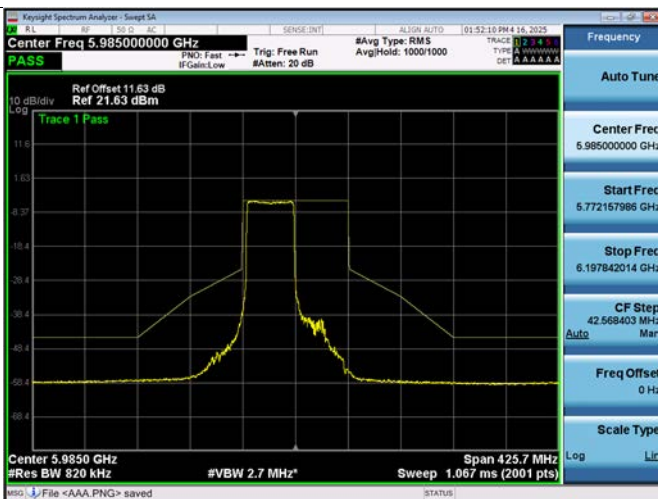
802.11ax HE80M Ch.7(5985 MHz) 106 Tones 53 RU



802.11ax HE80M Ch.7(5985 MHz) 242 Tones 61 RU



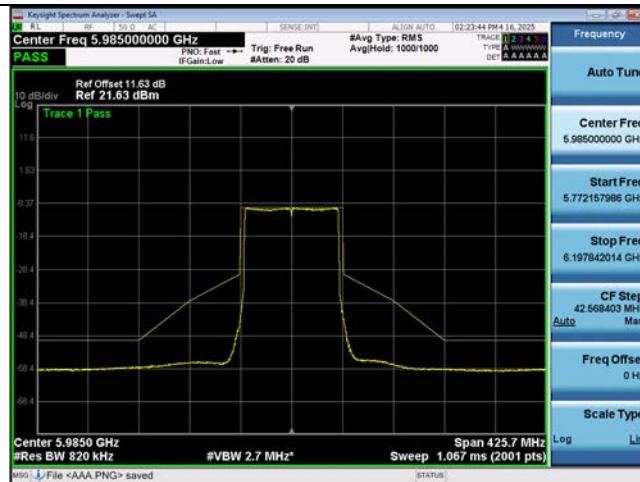
802.11ax HE80M Ch.7(5985 MHz) 484 Tones 65 RU



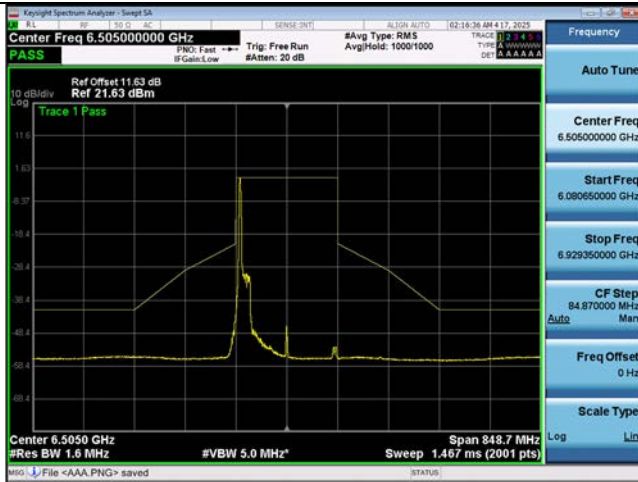
802.11ax HE80M Ch.7(5985 MHz) 996 Tones 67 RU



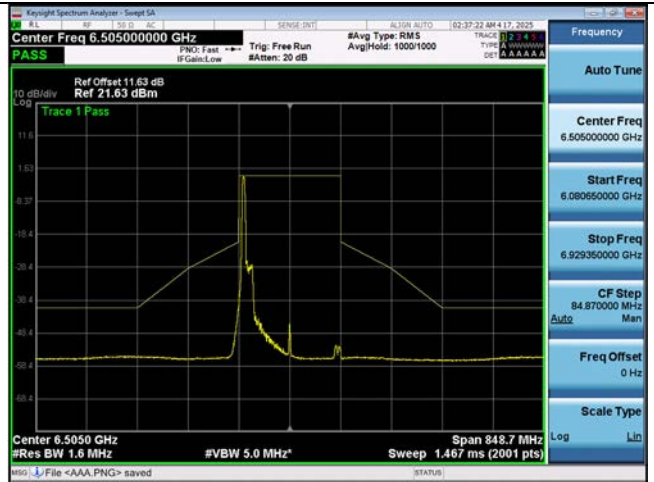
802.11ax HE80M Ch.7(5985 MHz) SU



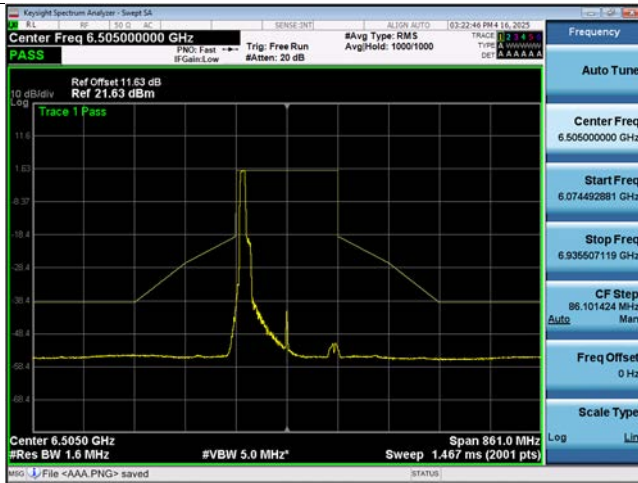
802.11ax HE160M_80L Ch.111(6505 MHz) 26 Tones 0 RU



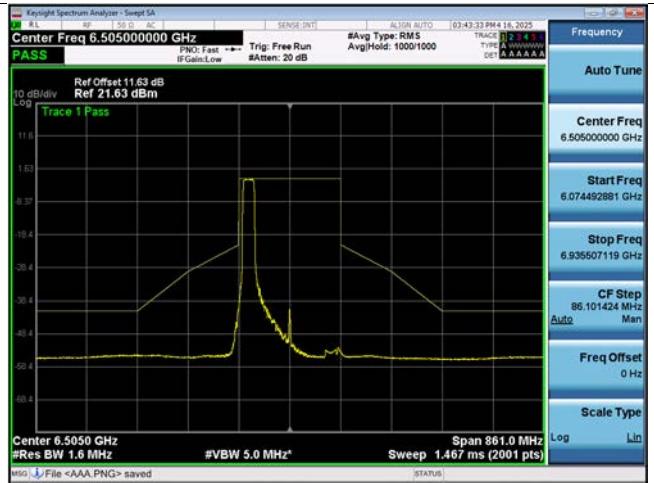
802.11ax HE160M_80L Ch.111(6505 MHz) 52 Tones 37 RU



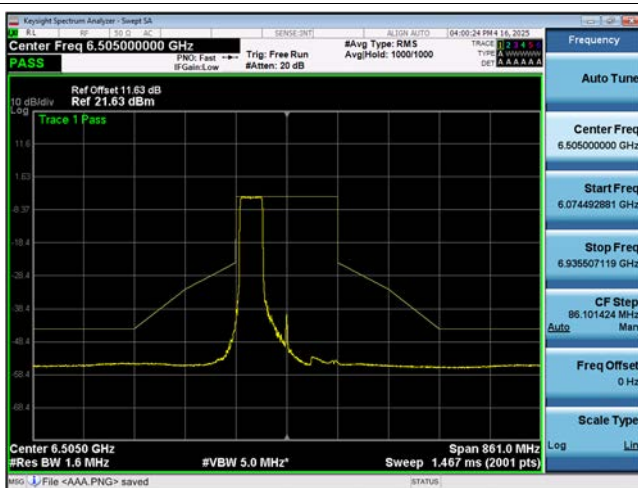
802.11ax HE160M_80L Ch.111(6505 MHz) 106 Tones 53 RU



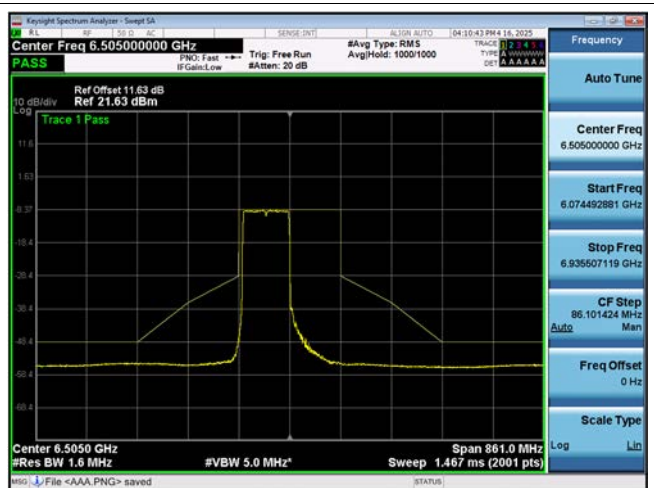
802.11ax HE160M_80L Ch.111(6505 MHz) 242 Tones 61 RU



802.11ax HE160M_80L Ch.111(6505 MHz) 484 Tones 65 RU



802.11ax HE160M_80L Ch.111(6505 MHz) 996 Tones 67 RU



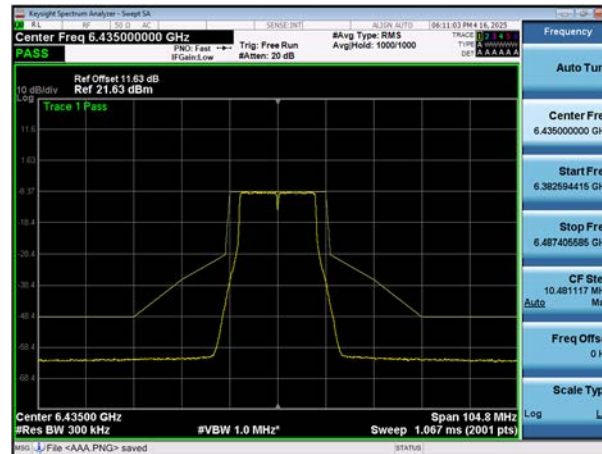
802.11ax HE160M Ch.111(6505 MHz) SU



802.11ax HE160M Ch.111(6505 MHz) 2x996 Tones 68 RU



802.11a Ch.97(6435 MHz)



10.6 Contention Based Protocol

Note:

1. In order to simplify the report, Only worst case for each band have been inserted.
2. The worst case antenna gain(Minimum Gain) is selected from the table.
3. The lowest gain according to the incumbent frequency is applied.
4. Bandwidth Reduction was used for incumbent avoidance.
5. This device doesn't support Channel Puncturing in the 6 GHz Wi-Fi bands.

Band	Ant Minimum Gain (dBi)
UNII-5	6135 MHz:-10.17
	6110 MHz:-10.17
	6185 MHz:-10.05
	6260 MHz:-10.05
UNII-6	6455 MHz:-11.19
	6430 MHz:-11.19
	6505 MHz:-11.18
	6580 MHz:-11.59
UNII-7	6615 MHz:-11.59
	6590 MHz:-11.59
	6665 MHz:-11.59
	6740 MHz:-11.13
UNII-8	6935 MHz:-10.75
	6910 MHz:-10.75
	6985 MHz:-11.07
	7060 MHz:-11.07

- Contention-based Protocol Detection Value

Band	BW	Channel No.	Incumbent Freq (MHz)	Injected Power [dBm]	Antenna Gain [dBi]	Adjusted Power [dBm]	Detection Limit [dBm]	Margin [dB]	EUT TX Status
UNII 5	HE20	37	6135	-77.35	-10.17	-67.18	-62.00	5.18	Ceased
				-78.86	-10.17	-68.69	-62.00	6.69	Minimal
				-79.34	-10.17	-69.17	-62.00	7.17	Normal
	HE160	47	6110	-76.77	-10.17	-66.60	-62.00	4.60	Ceased
				-77.68	-10.17	-67.51	-62.00	5.51	Minimal
				-78.59	-10.17	-68.42	-62.00	6.42	Normal
		47	6185	-75.64	-10.05	-65.59	-62.00	3.59	Ceased
				-76.25	-10.05	-66.20	-62.00	4.20	Minimal
				-77.31	-10.05	-67.26	-62.00	5.26	Normal
		47	6260	-77.28	-10.05	-67.23	-62.00	5.23	Ceased
				-78.12	-10.05	-68.07	-62.00	6.07	Minimal
				-79.19	-10.05	-69.14	-62.00	7.14	Normal
UNII 6	HE20	101	6455	-75.68	-11.19	-64.49	-62.00	2.49	Ceased
				-76.74	-11.19	-65.55	-62.00	3.55	Minimal
				-77.54	-11.19	-66.35	-62.00	4.35	Normal
	HE160	111	6430	-75.81	-11.19	-64.62	-62.00	2.62	Ceased
				-76.76	-11.19	-65.57	-62.00	3.57	Minimal
				-77.84	-11.19	-66.65	-62.00	4.65	Normal
		111	6505	-74.59	-11.18	-63.41	-62.00	1.41	Ceased
				-75.37	-11.18	-64.19	-62.00	2.19	Minimal
				-76.79	-11.18	-65.61	-62.00	3.61	Normal
		111	6580	-76.49	-11.59	-64.90	-62.00	2.90	Ceased
				-77.24	-11.59	-65.65	-62.00	3.65	Minimal
				-78.37	-11.59	-66.78	-62.00	4.78	Normal
UNII 7	HE20	133	6615	-76.23	-11.59	-64.64	-62.00	2.64	Ceased
				-77.35	-11.59	-65.76	-62.00	3.76	Minimal
				-78.42	-11.59	-66.83	-62.00	4.83	Normal
	HE160	143	6590	-75.88	-11.59	-64.29	-62.00	2.29	Ceased
				-76.94	-11.59	-65.35	-62.00	3.35	Minimal
				-77.86	-11.59	-66.27	-62.00	4.27	Normal
		143	6665	-75.39	-11.59	-63.80	-62.00	1.80	Ceased
				-76.71	-11.59	-65.12	-62.00	3.12	Minimal
				-77.59	-11.59	-66.00	-62.00	4.00	Normal
		143	6740	-75.99	-11.13	-64.86	-62.00	2.86	Ceased
				-77.02	-11.13	-65.89	-62.00	3.89	Minimal
				-77.96	-11.13	-66.83	-62.00	4.83	Normal
UNII 8	HE20	197	6935	-74.78	-10.75	-64.03	-62.00	2.03	Ceased

Band	BW	Channel No.	Incumbent Freq (MHz)	Injected Power [dBm]	Antenna Gain [dBi]	Adjusted Power [dBm]	Detection Limit [dBm]	Margin [dB]	EUT TX Status
	HE160	207		-75.91	-10.75	-65.16	-62.00	3.16	Minimal
				-76.84	-10.75	-66.09	-62.00	4.09	Normal
				-74.66	-10.75	-63.91	-62.00	1.91	Ceased
			6910	-75.36	-10.75	-64.61	-62.00	2.61	Minimal
				-76.14	-10.75	-65.39	-62.00	3.39	Normal
				-74.88	-11.07	-63.81	-62.00	1.81	Ceased
			6985	-75.74	-11.07	-64.67	-62.00	2.67	Minimal
				-76.69	-11.07	-65.62	-62.00	3.62	Normal
				-76.31	-11.07	-65.24	-62.00	3.24	Ceased
			7060	-77.15	-11.07	-66.08	-62.00	4.08	Minimal
				-77.99	-11.07	-66.92	-62.00	4.92	Normal

Note:

1. KDB 987594 D02, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz.

The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.

2. Injected Power(dBm) = Actual power of AWGN injected into the antenna port(dBm) + Path Loss(dB)

3. Adjusted Power(dBm) = Injected Power(dBm) – Antenna Gain(dBi)

4. In order to simplify the report, attached were only the worst-case plots.

- Detection probability evaluation table Result

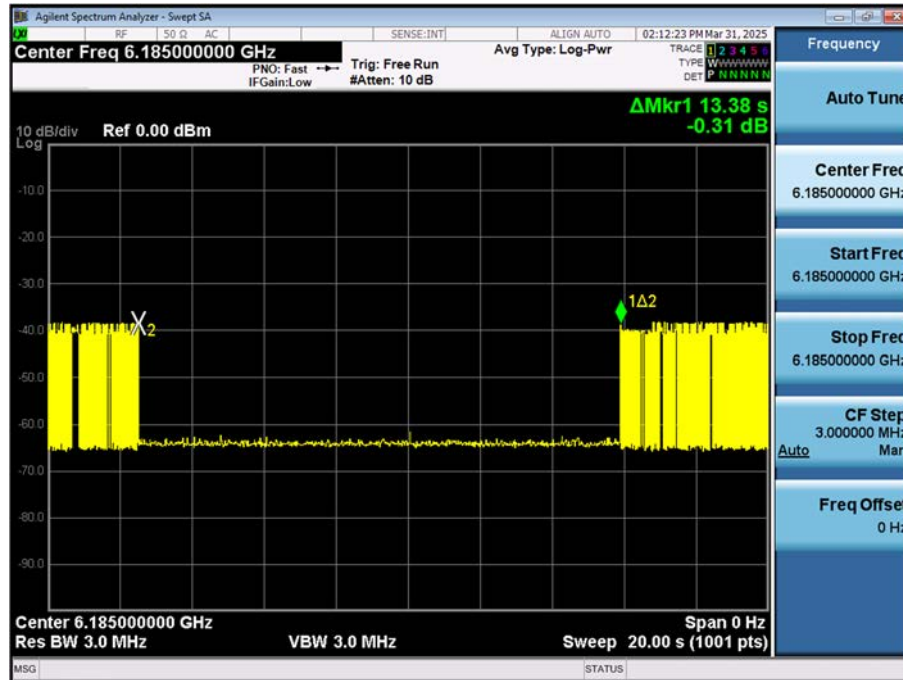
Band	BW	Channel No.	Center Frequency (MHz)	Incumbent Frequency (MHz)	Adjusted Power [dBm]	1	2	3	4	5	6	7	8	9	10	AWGN Detection Probability (%)	Limit Probability (%)
UNII 5	HE20	37	6135	6135	-67.18	o	o	o	o	o	o	o	o	o	o	100	90
	HE160	47	6185	6110	-66.60	o	o	o	o	o	o	o	o	o	o	100	90
				6185	-65.59	o	o	o	o	o	o	o	o	o	o	100	90
				6250	-67.23	o	o	o	o	o	o	o	o	o	o	100	90
UNII 6	HE20	101	6455	6455	-64.49	o	o	o	o	o	o	o	o	o	o	100	90
	HE160	111	6505	6430	-64.62	o	o	o	o	o	o	o	o	o	o	100	90
				6505	-63.41	o	o	o	o	o	o	o	o	o	o	100	90
				6580	-64.90	o	o	o	o	o	o	o	o	o	o	100	90
UNII 7	HE20	133	6615	6615	-64.64	o	o	o	o	o	o	o	o	o	o	100	90
	HE160	143	6665	6590	-64.29	o	o	o	o	o	o	o	o	o	o	100	90
				6665	-63.80	o	o	o	o	o	o	o	o	o	o	100	90
				6740	-64.86	o	o	o	o	o	o	o	o	o	o	100	90
UNII 8	HE20	197	6935	6935	-64.03	o	o	o	o	o	o	o	o	o	o	100	90
	HE160	207	6985	6910	-63.91	o	o	o	o	o	o	o	o	o	o	100	90
				6985	-63.81	o	o	o	o	o	o	o	o	o	o	100	90
				7060	-65.24	o	o	o	o	o	o	o	o	o	o	100	90

Test Plots(Contention Based Protocol)

Incumbent Detection Result

UNII 5

802.11ax HE160 Ch.47(6185 MHz) Incumbent signal (Ceased)

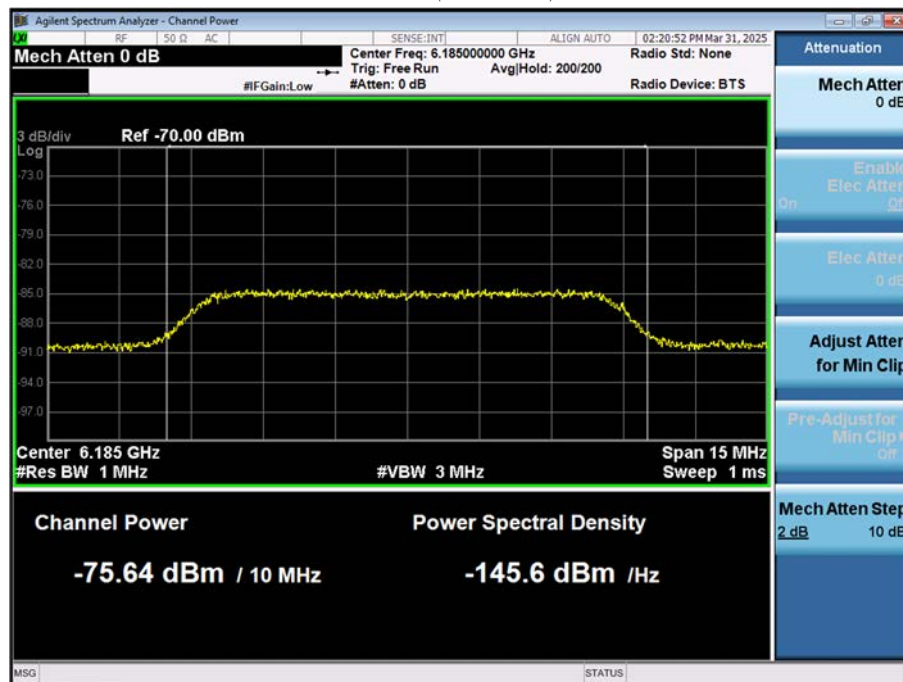


Note :

Marker 2 : AWGN Signal On

Marker 1Δ2 : AWGN signal Off (limit > 10s)

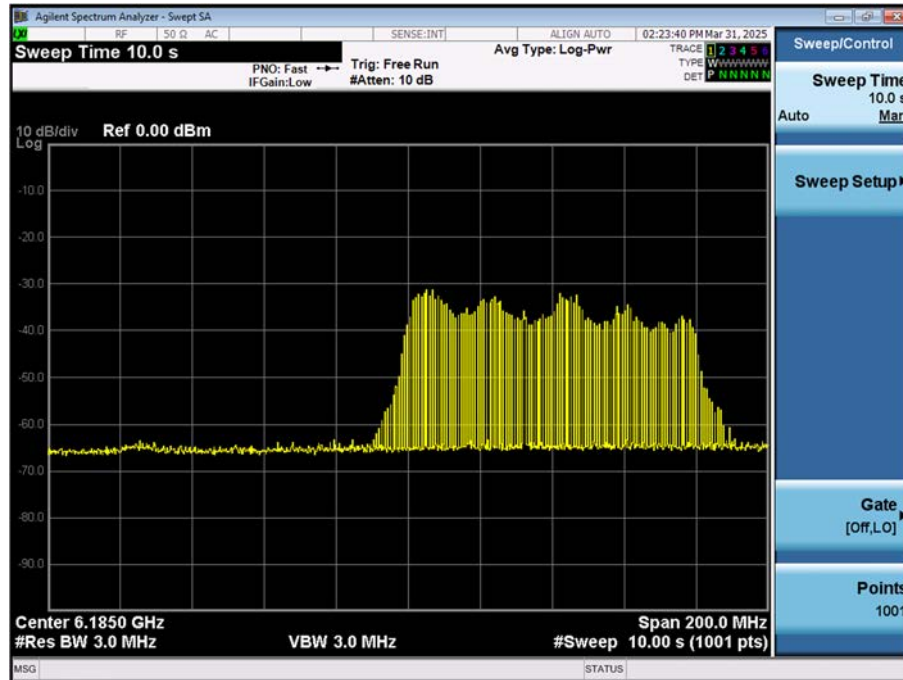
802.11ax HE160 Ch.47(6185 MHz) Detection Level



Bandwidth reduction plot (AWGN injected at low end)

: A 10 MHz AWGN signal (centered at 6110 MHz) is injected.

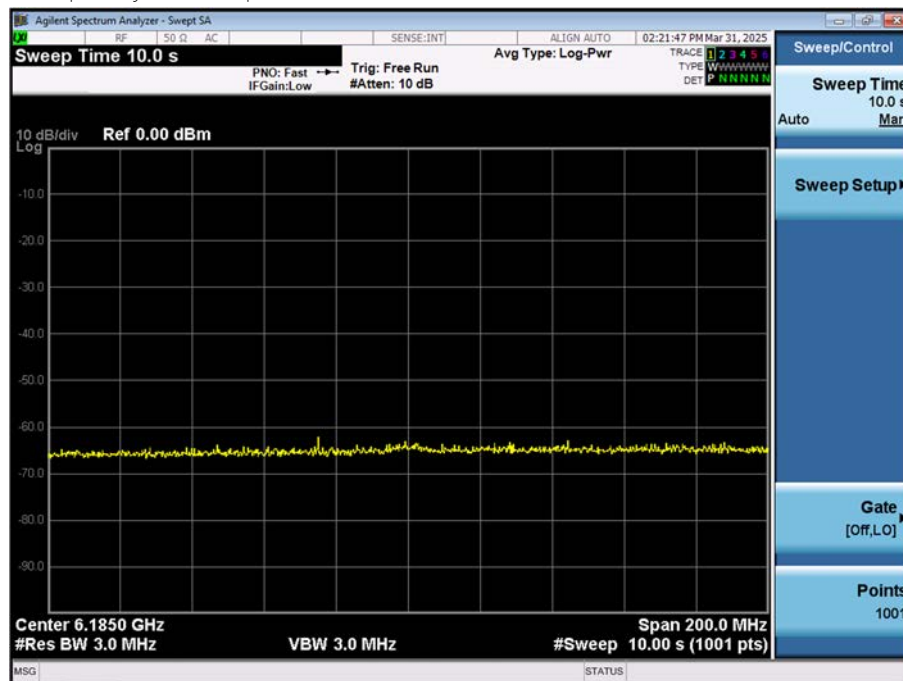
When a signal is applied at 6110 MHz, the channel at 6110 MHz and its adjacent channels become deactivated



Bandwidth reduction plot (AWGN injected at center)

: A 10 MHz AWGN signal (centered at 6185 MHz) is injected.

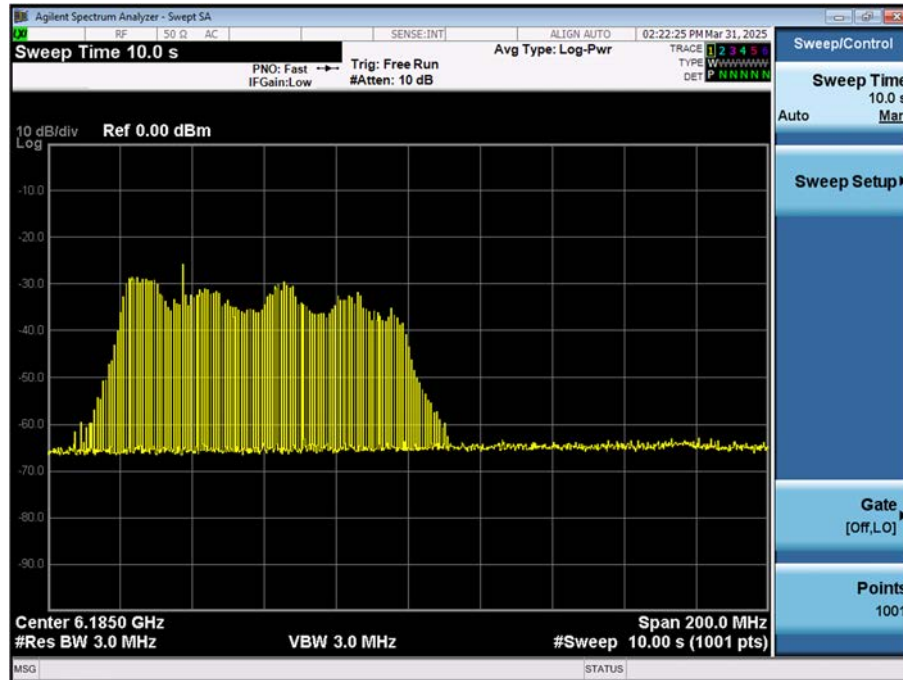
The channel completely ceases operation.



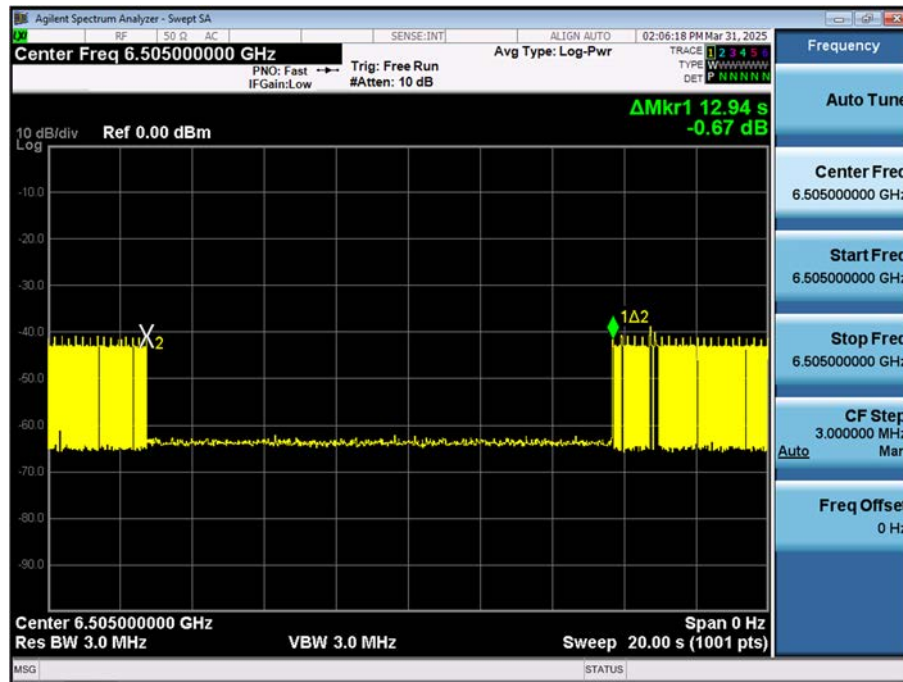
Bandwidth reduction plot (AWGN injected at high end)

: A 10 MHz AWGN signal (centered at 6250 MHz) is injected.

When a signal is applied at 6250 MHz, the channel at 6250 MHz and its adjacent channels become deactivated



802.11ax HE160 Ch.111(6505 MHz) Incumbent signal (Ceased)

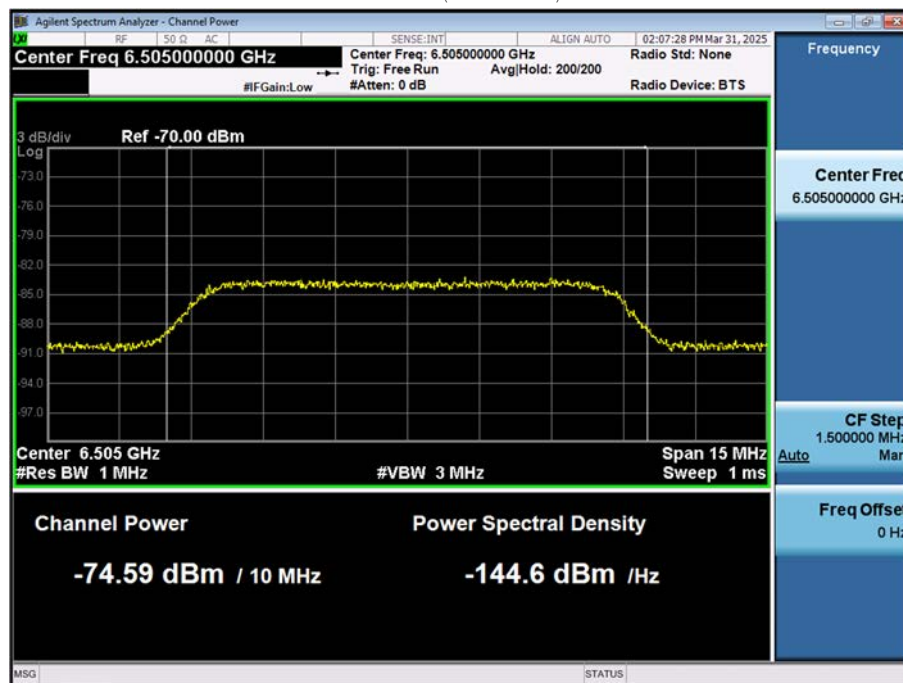


Note :

Marker 2 : AWGN Signal On

Marker 1Δ2 : AWGN signal Off (limit > 10s)

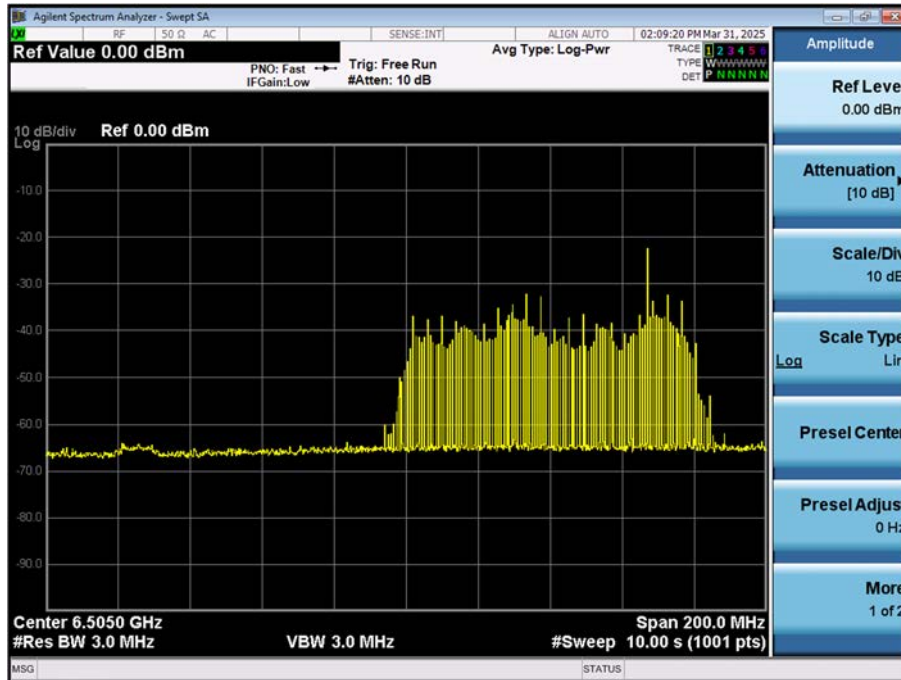
802.11ax HE160 Ch.111(6505 MHz) Detection Level



Bandwidth reduction plot (AWGN injected at low end)

: A 10 MHz AWGN signal (centered at 6430 MHz) is injected.

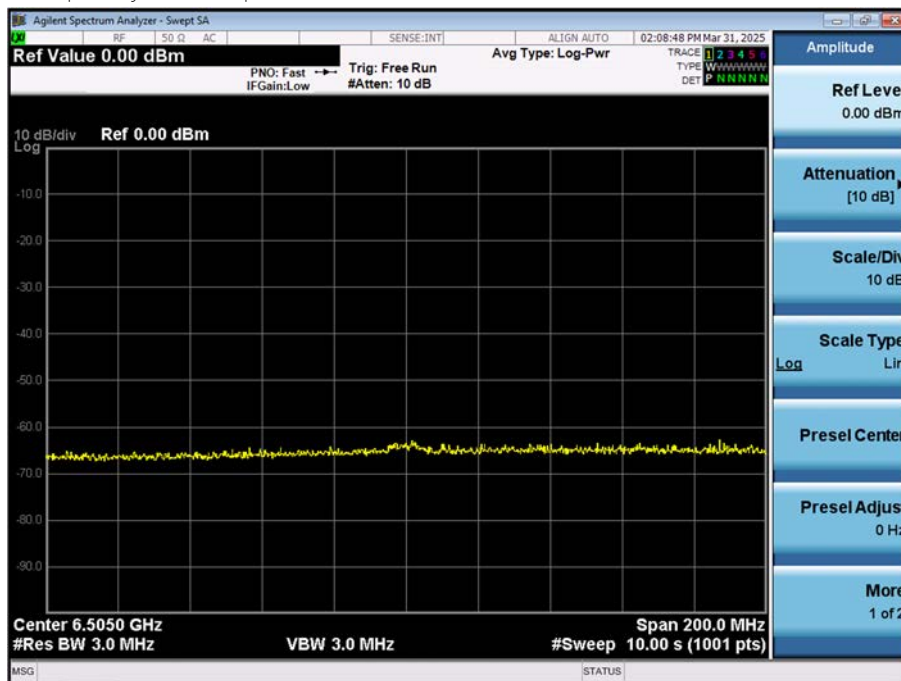
When a signal is applied at 6430 MHz, the channel at 6430 MHz and its adjacent channels become deactivated



Bandwidth reduction plot (AWGN injected at center)

: A 10 MHz AWGN signal (centered at 6505 MHz) is injected.

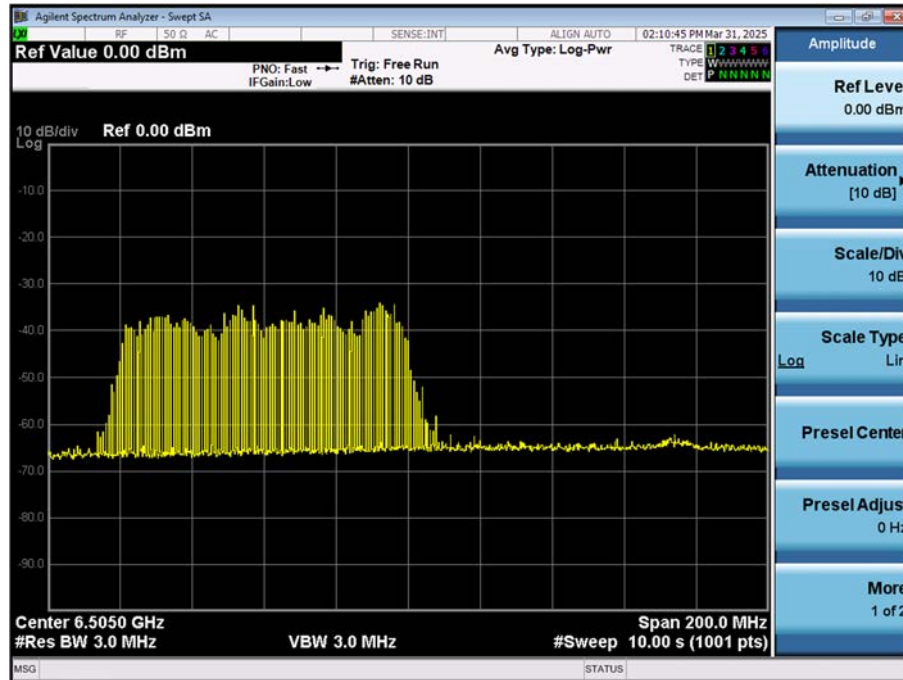
The channel completely ceases operation.



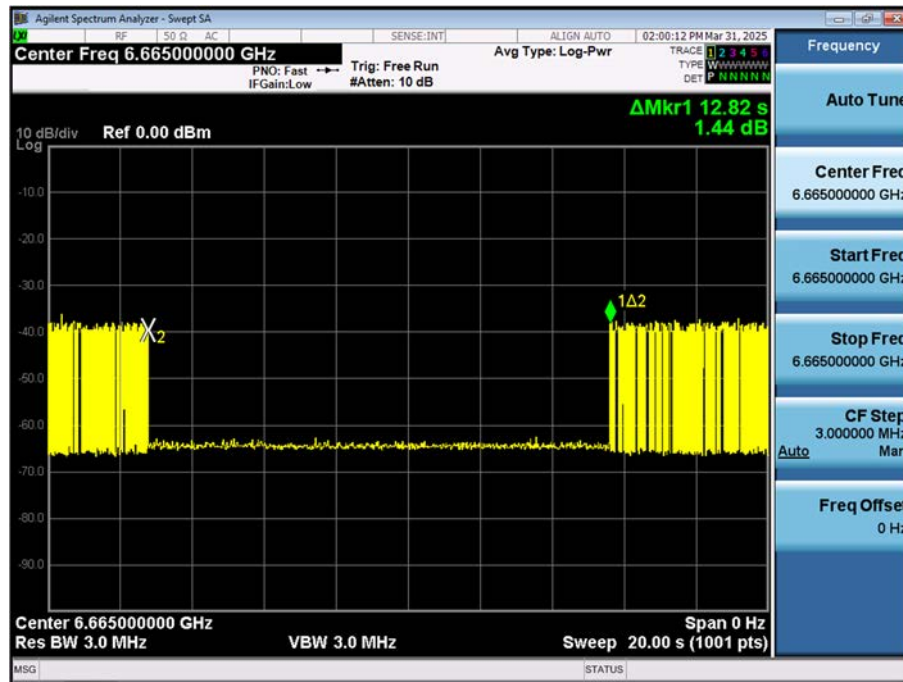
Bandwidth reduction plot (AWGN injected at high end)

: A 10 MHz AWGN signal (centered at 6580 MHz) is injected.

When a signal is applied at 6580 MHz, the channel at 6580 MHz and its adjacent channels become deactivated



802.11ax HE160 Ch.143(6665 MHz) Incumbent signal (Ceased)



Note :

Marker 2 : AWGN Signal On

Marker 1△2 : AWGN signal Off (limit > 10s)

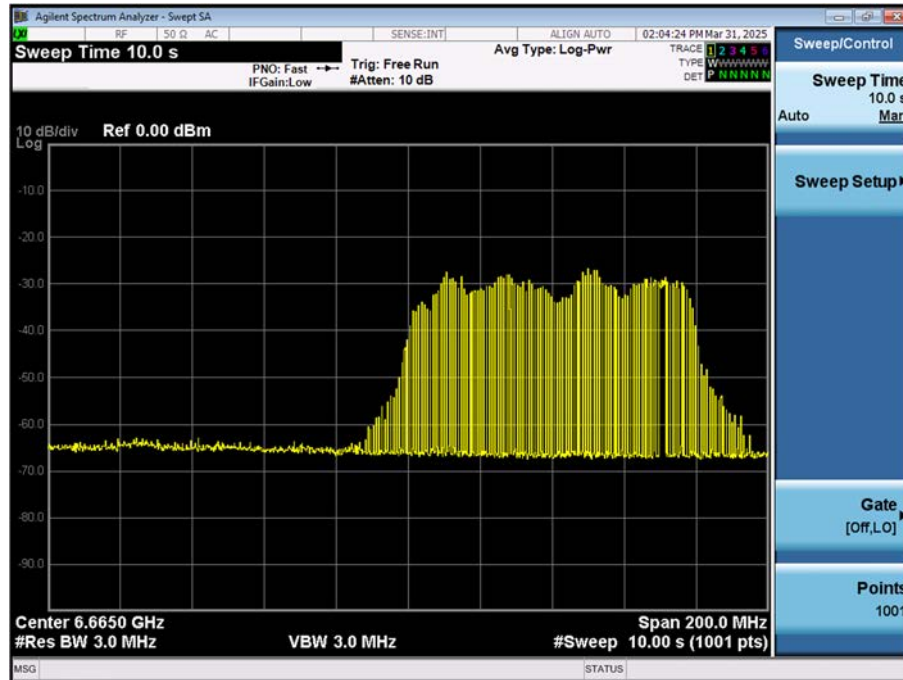
802.11ax HE160 Ch.143(6665 MHz) Detection Level



Bandwidth reduction plot (AWGN injected at low end)

: A 10 MHz AWGN signal (centered at 6590 MHz) is injected.

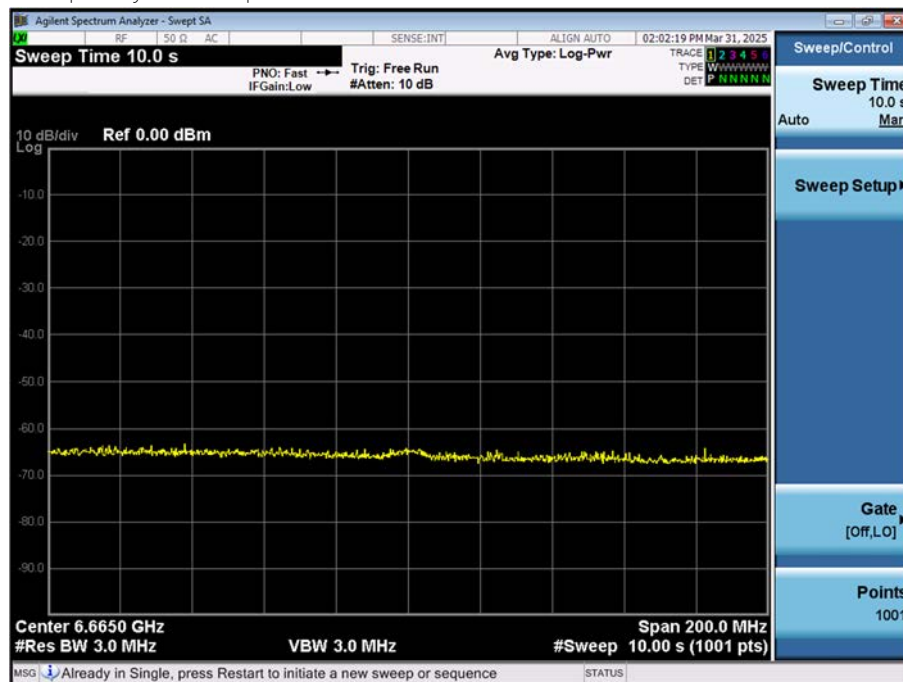
When a signal is applied at 6590 MHz, the channel at 6590 MHz and its adjacent channels become deactivated



Bandwidth reduction plot (AWGN injected at center)

: A 10 MHz AWGN signal (centered at 6665 MHz) is injected.

The channel completely ceases operation.



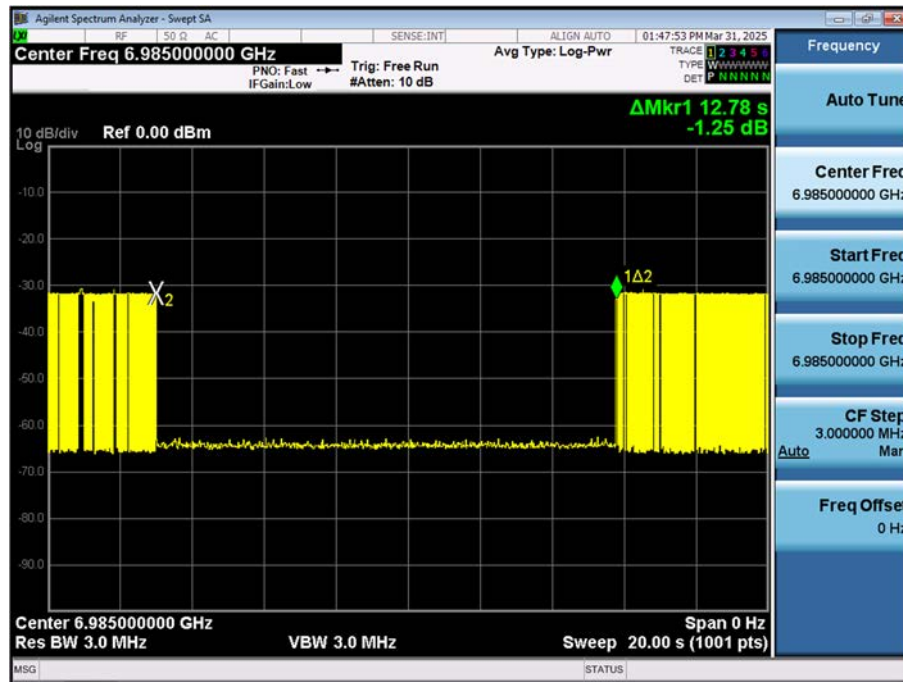
: A 10 MHz AWGN signal (centered at 6740 MHz) is injected.

The screenshot displays the Agilent Spectrum Analyzer interface. The main display shows a swept spectrum plot with a yellow signal trace. The plot has a grid with a vertical scale from -90.0 to 10.0 dB/div and a horizontal scale from 6.600 GHz to 6.700 GHz. The signal trace shows a broad peak centered at 6.6650 GHz, with a maximum level of approximately -30.0 dBm. The plot is labeled "Ref 0.00 dBm".

Key parameters and settings visible on the screen include:

- Center Frequency:** 6.6650 GHz
- Span:** 200.0 MHz
- Resolution Bandwidth (Res BW):** 3.0 MHz
- Sweep Time:** 10.0 s
- Span:** 10.00 s (1001 pts)
- VBW:** 3.0 MHz
- Trig:** Free Run
- Attenuation:** 10 dB
- Gain:** 10 dB
- IF Gain:** Low
- Trace Type:** Log-Pwr
- Trace Format:** P (Power)
- Trace Data:** W (Waveform)
- Trace Detectors:** N (Noise), N (Noise), N (Noise), N (Noise)

802.11ax HE160 Ch.207(6985 MHz) Incumbent signal (Ceased)

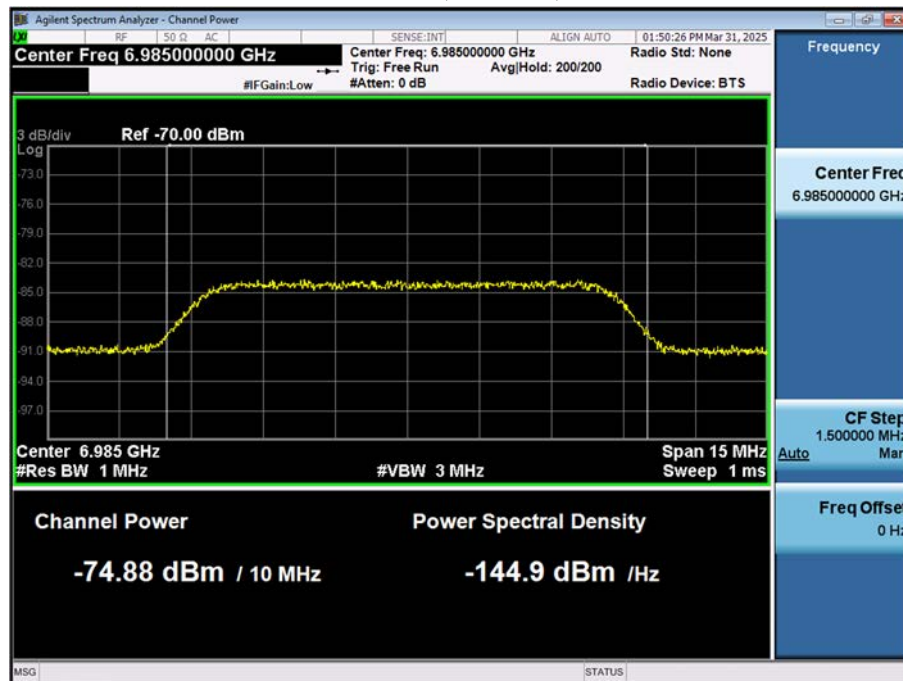


Note :

Marker 2 : AWGN Signal On

Marker 1Δ2 : AWGN signal Off (limit > 10s)

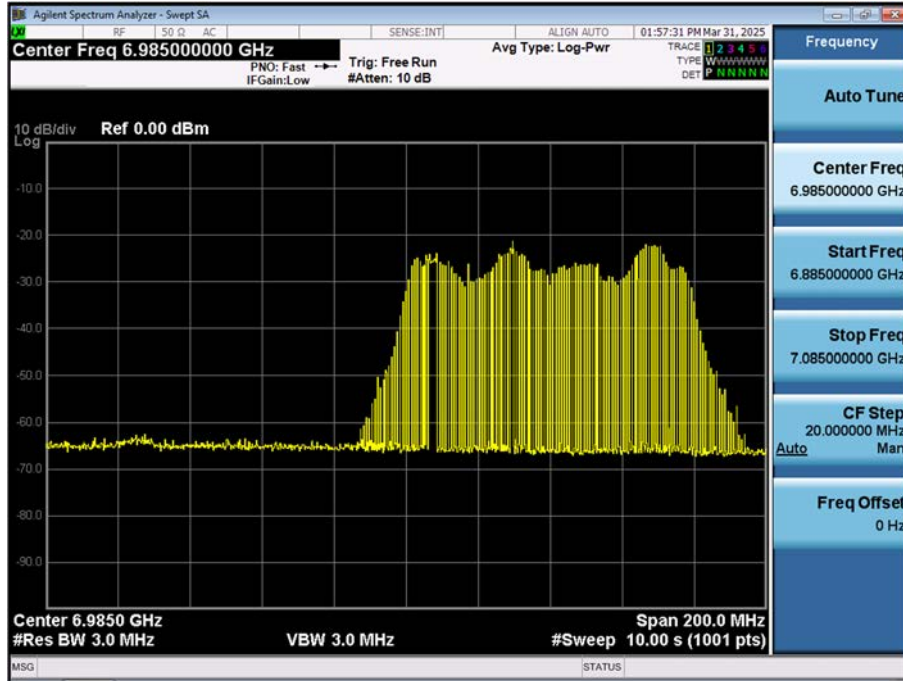
802.11ax HE160 Ch.207(6985 MHz) Detection Level



Bandwidth reduction plot (AWGN injected at low end)

: A 10 MHz AWGN signal (centered at 6910 MHz) is injected.

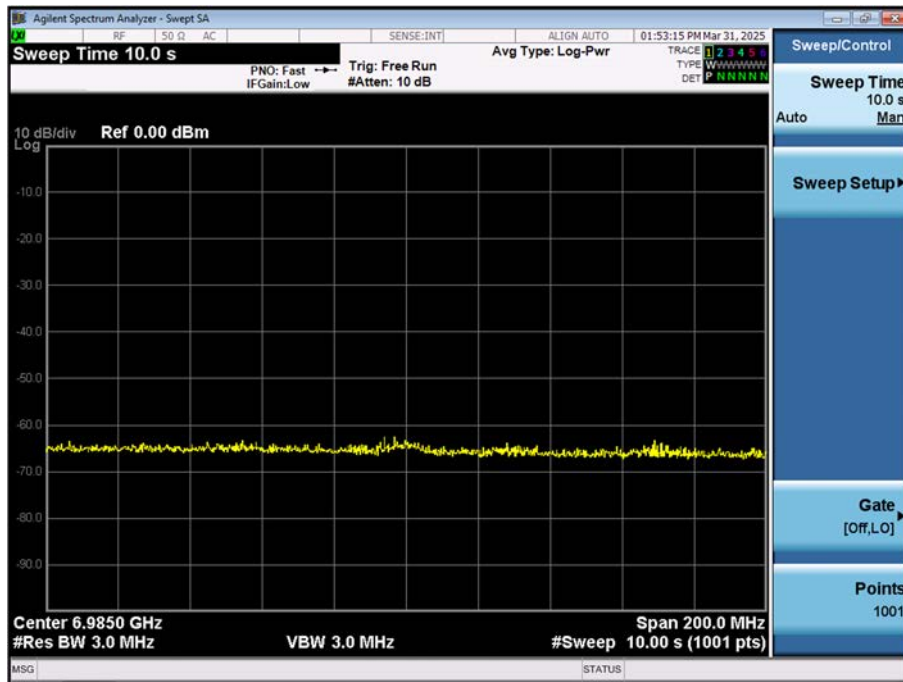
When a signal is applied at 6910 MHz, the channel at 6910 MHz and its adjacent channels become deactivated



Bandwidth reduction plot (AWGN injected at center)

: A 10 MHz AWGN signal (centered at 6985 MHz) is injected.

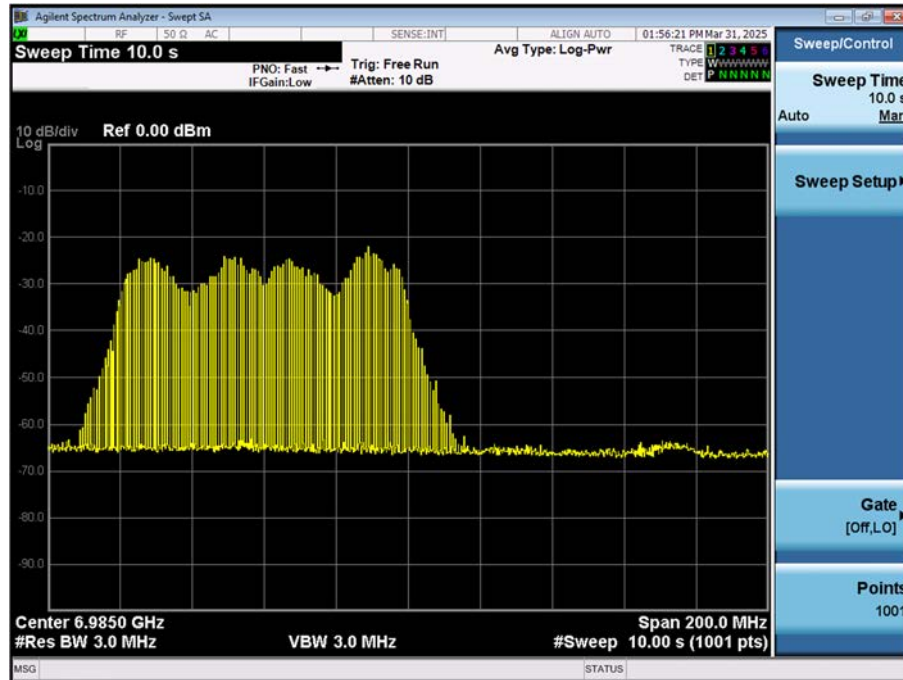
The channel completely ceases operation.



Bandwidth reduction plot (AWGN injected at high end)

: A 10 MHz AWGN signal (centered at 7060 MHz) is injected.

When a signal is applied at 7060 MHz, the channel at 7060 MHz and its adjacent channels become deactivated



10.7 Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

Note:

1. The EUT is a Dual Client Device
2. The test was executed with the SP AP and LPI AP (CMX500) authorized to transmit up to 30 dBm (SP AP) and 24 dBm(LPI AP).
3. The EUT was connected via a conducted connection to the spectrum analyzer. Simultaneously, the EUT was able to see and establish a conducted connection with the standard power access point and Low Power Indoor access point. (CMX500)

Ch.5 5975 MHz

Authorized EIRP for AP [dBm]	ANT1 [dBm]	ANT2 [dBm]	ANT1 gain [dBi]	ANT2 gain [dBi]	Summed MIMO Power (Duty Adjusted) [dBm]	Directional Antenna Gain [dBi]	Dual Client MIMO EIRP [dBm]	Limit [dBm]	Margin [dB]
30(SP)	9.59	10.06	-10.25	-10.29	13.18	-7.26	5.92	30	24.08
24(LPI)	9.33	9.94	-10.25	-10.29	12.99	-7.26	5.73	24	18.27

Ch.133 6615 MHz

Authorized EIRP for AP [dBm]	ANT1 [dBm]	ANT2 [dBm]	ANT1 gain [dBi]	ANT2 gain [dBi]	Summed MIMO Power (Duty Adjusted) [dBm]	Directional Antenna Gain [dBi]	Dual Client MIMO EIRP [dBm]	Limit [dBm]	Margin [dB]
30(SP)	8.35	9.66	-11.59	-11.21	12.40	-8.39	4.01	30	25.99
24(LPI)	8.21	9.63	-11.59	-11.21	12.32	-8.39	3.94	24	20.06

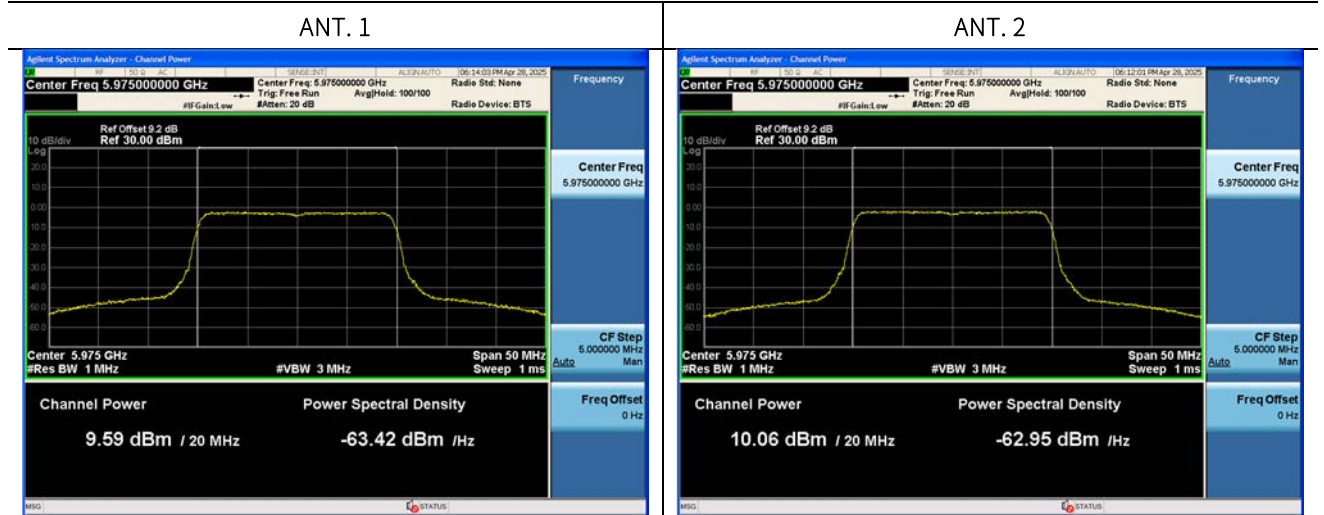
Note:

Duty Cycle Factor: 0.34 dB

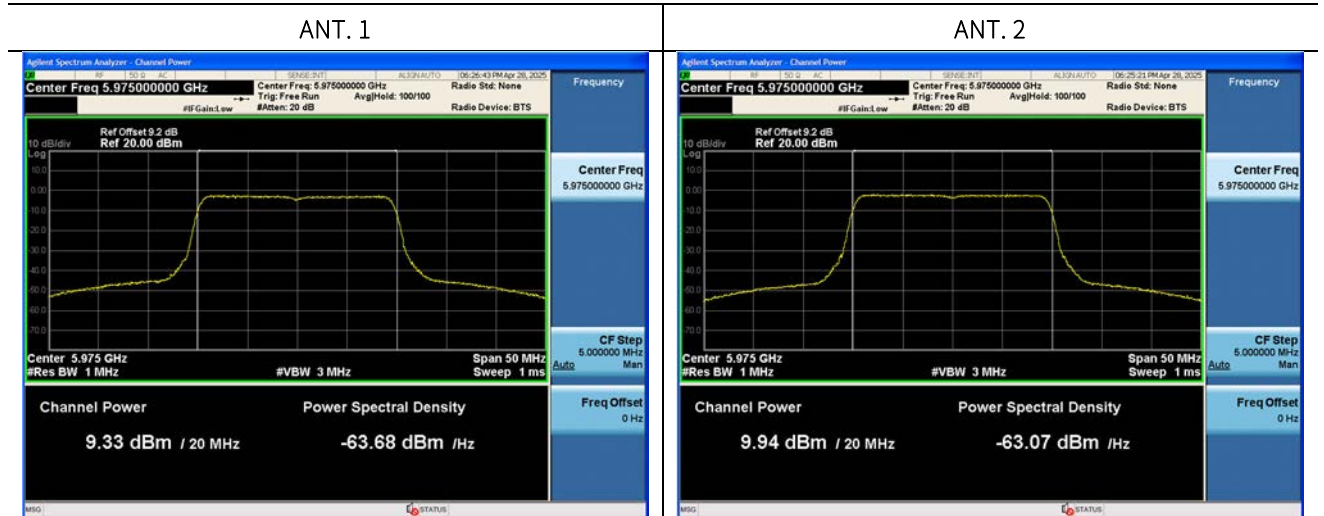
Test Plots

CH.5 5975 MHz

SP AP Client Conducted Power (EIRP Authorization Power = 30 dBm)



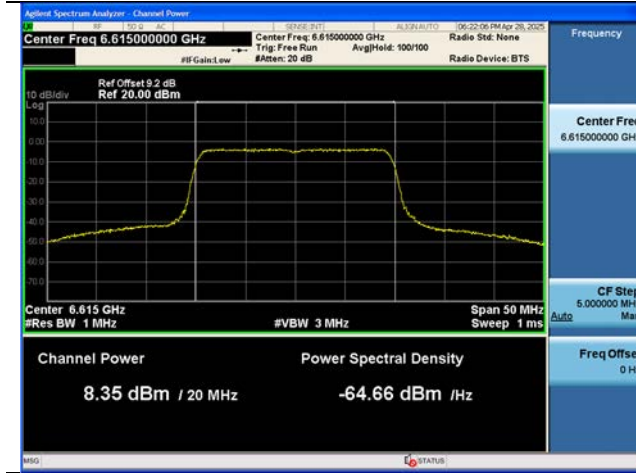
LPI AP Client Conducted Power (EIRP Authorization Power = 24 dBm)



CH.133 6615 MHz

SP AP Client Conducted Power (EIRP Authorization Power = 30 dBm)

ANT. 1

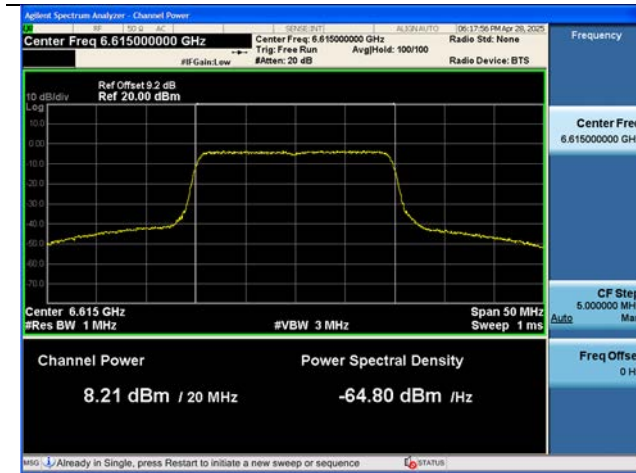


ANT. 2



LPI AP Client Conducted Power (EIRP Authorization Power = 24 dBm)

ANT. 1



ANT. 2



CMX500 Status

Note: The beacon signal indicates the Max Tx Power as twice the actual transmit power.

CMX500 - EIRP Authorization Power 30 dBm (SP AP)

3s...id	Time Stamp	Time Span	Protocol	Layer	SAP	Service	Primitive	POU	Dir...	id	Time Stamp	Time Span	Protocol	Layer	SAP	Service	Primitive	POU
261	11:32:21.408	0:20:54.860.189	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	261	11:32:21.408	0:20:54.860.189	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
262	11:32:21.428	0:20:54.880.472	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	262	11:32:21.428	0:20:54.880.472	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
263	11:32:21.448	0:20:54.900.775	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	263	11:32:21.448	0:20:54.900.775	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
264	11:32:21.469	0:20:54.921.614	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	264	11:32:21.469	0:20:54.921.614	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
265	11:32:21.490	0:20:54.942.099	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	265	11:32:21.490	0:20:54.942.099	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
266	11:32:21.510	0:20:54.962.584	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	266	11:32:21.510	0:20:54.962.584	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
267	11:32:21.531	0:20:54.983.070	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	267	11:32:21.531	0:20:54.983.070	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
268	11:32:21.551	0:20:55.003.175	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	268	11:32:21.551	0:20:55.003.175	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
269	11:32:21.572	0:20:55.024.013	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	269	11:32:21.572	0:20:55.024.013	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
270	11:32:21.592	0:20:55.044.501	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	270	11:32:21.592	0:20:55.044.501	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
271	11:32:21.613	0:20:55.064.986	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	271	11:32:21.613	0:20:55.064.986	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
272	11:32:21.633	0:20:55.085.473	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	272	11:32:21.633	0:20:55.085.473	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	
273	11:32:21.653	0:20:55.105.574	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	273	11:32:21.653	0:20:55.105.574	Wlan	Mac Layer	MAC Frame	Management	Req	Probe Resp	

Message Tree X

id=268 TS=2024-10-30 11:32:21.551 RfN=0 MDOB=wlan_ali_8.2

Use RegEx

regu

1/3

Choice = TransmitPowerEnv_Value (1)

TransmitPowerEnv_Value

TPE_TransmitPowerEnv

Max Tx Power Count = (0)

Interpretation = Regulatory-Channel ERP (2)

Category = Default (0)

MTP = TPE_ERP (0)

ERP Max Tx Power List

Max Tx Power For 20 MHz

Disabled (1)

Max Tx Power = (00)

Message Tree X

id=268 TS=2024-10-30 11:32:21.551 RfN=0 MDOB=wlan_ali_8.2

Use RegEx

regu

3/3

OptimizeG42OperationInfo = HeS6G42OperationInfo (1)

HE 6 GHz Operation Info

Primary Channel Index = (5)

Control

ChannelWidth = 20 MHz (0)

Duplicate Beacon = 1 (0)

RegulatoryInfo = Standard power AP (1)

Reserved = (0)

Channel Center Freq Segment 0 = (5)

Channel Center Freq Segment 1 = (0)

Minimum Rate (Mbit/s) = (0)

CMX500- EIRP Authorization Power_24 dBm (LPI AP)

Dir_Idx	Time Stamp	Time Span	Protocol	Layer	SAP	Service	Primitive	POU
283	11:35:07.132	02:53:40:584:208 Wlan	Mac Layer	MAC Frame	Management	Req	Beacon	Probe Rsp
284	11:35:07.133	02:53:40:605:198 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
285	11:35:07.173	02:53:40:625:198 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
286	11:35:07.194	02:53:40:646:081 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
287	11:35:07.214	02:53:40:666:567 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
288	11:35:07.234	02:53:40:686:681 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
289	11:35:07.255	02:53:40:707:506 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
290	11:35:07.276	02:53:40:727:995 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
291	11:35:07.296	02:53:40:748:480 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
292	11:35:07.317	02:53:40:768:964 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
293	11:35:07.337	02:53:40:789:068 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
294	11:35:07.358	02:53:40:809:906 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
295	11:35:07.378	02:53:40:830:393 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp

Dir_Idx	Time Stamp	Time Span	Protocol	Layer	SAP	Service	Primitive	POU
283	11:35:07.132	02:53:40:584:208 Wlan	Mac Layer	MAC Frame	Management	Req	Beacon	Probe Rsp
284	11:35:07.133	02:53:40:605:198 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
285	11:35:07.173	02:53:40:625:198 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
286	11:35:07.194	02:53:40:646:081 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
287	11:35:07.214	02:53:40:666:567 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
288	11:35:07.234	02:53:40:686:681 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
289	11:35:07.255	02:53:40:707:506 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
290	11:35:07.276	02:53:40:727:995 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
291	11:35:07.296	02:53:40:748:480 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
292	11:35:07.317	02:53:40:768:964 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
293	11:35:07.337	02:53:40:789:068 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
294	11:35:07.358	02:53:40:809:906 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp
295	11:35:07.378	02:53:40:830:393 Wlan	Mac Layer	MAC Frame	Management	Req	Probe Request	Probe Rsp

Message Tree X

ID288 TS=2024-10-30 11:35:07.234 RFN=0 MDOB=wlan_001.8.2

Use RegEx regu

1/3

TransmitPowerEn_Value

Max TX Power Count = (2)

Interpretation = Regulatory Client ERP (2)

Category = Default (0)

ERP = ERP ERP (0)

ERP Max Tx Power List

Max TX Power for 20 MHz

Unlimited (1)

Max Tx Power = (48)

Element

Channel Center Freq Segment 0 = (5)

Channel Center Freq Segment 1 = (0)

Channel Center Freq Segment 2 = (0)

Minimum Rate (Mb/s) = (0)

Message Tree X

ID288 TS=2024-10-30 11:35:07.234 RFN=0 MDOB=wlan_001.8.2

Use RegEx regu

3/3

Omitted

OptimizeGHzOperationInfo = HeGhzOperationInfo (1)

HE & GHz Operation Info

Primary Channel Index = (5)

Control

ChannelWidth = 20 MHz (0)

Duplicate Beacon = (0)

RegulatoryInfo = Indoor AP (0)

Reserved = (0)

Channel Center Freq Segment 0 = (5)

Channel Center Freq Segment 1 = (0)

Minimum Rate (Mb/s) = (0)

10.8 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

Note:

1. The EUT is a Dual Client Device
2. The test was conducted with the SP AP (CMX500), authorized to transmit up to 12 dBm, 24 dBm, and 36 dBm on Channel 47 (6185 MHz) and Channel 143 (6665 MHz).
3. The lowest 12 dBm power level is based on the EIRP calculated from the conducted power targets specified in the manufacturer's "WLAN Tune-up Procedure Document."
4. The EUT was connected to the spectrum analyzer via a conducted connection. Simultaneously, the EUT was able to detect the standard power access point (CMX500) and establish a conducted connection.

Ch.47 6185 MHz

Authorized EIRP for AP [dBm]	ANT1 [dBm]	ANT2 [dBm]	ANT1 gain [dBi]	ANT2 gain [dBi]	Summed MIMO Power (Duty Adjusted) [dBm]	Directional Antenna Gain [dBi]	Client MIMO EIRP [dBm]	Limit [dBm]	Margin [dB]
36	8.51	8.72	-10.05	-9.5	11.99	-6.76	5.23	30	24.77
24	8.32	8.66	-10.05	-9.5	11.87	-6.76	5.11	18	12.89
12	8.11	8.50	-10.05	-9.5	11.68	-6.76	4.92	6	1.08

Ch.143 6665 MHz

Authorized EIRP for AP [dBm]	ANT1 [dBm]	ANT2 [dBm]	ANT1 gain [dBi]	ANT2 gain [dBi]	Summed MIMO Power (Duty Adjusted) [dBm]	Directional Antenna Gain [dBi]	Client MIMO EIRP [dBm]	Limit [dBm]	Margin [dB]
36	7.15	8.62	-11.59	-11.21	11.32	-8.39	2.93	30	27.07
24	7.06	8.58	-11.59	-11.21	11.26	-8.39	2.87	18	15.13
12	7.02	8.38	-11.59	-11.21	11.13	-8.39	2.74	6	3.26

Note:

Duty Cycle Factor: 0.36 dB

Test Plots

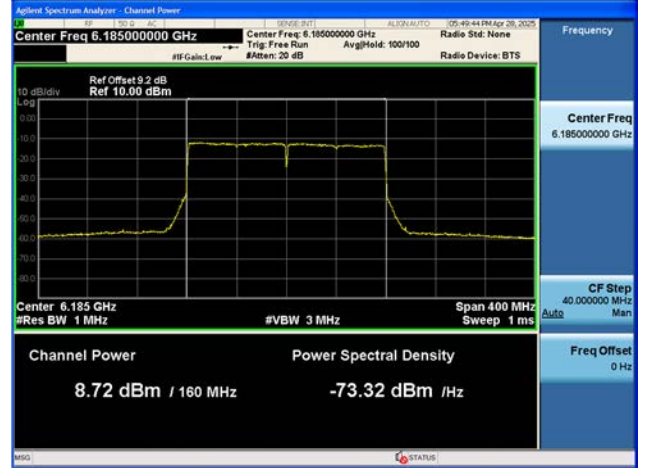
Ch.47 6185 MHz

Client Conducted Power (EIRP Authorization Power = 36 dBm)

ANT. 1



ANT. 2



Client Conducted Power (EIRP Authorization Power = 24 dBm)

ANT. 1



ANT. 2



Client Conducted Power (EIRP Authorization Power = 12 dBm)

ANT. 1



ANT. 2

