



26dB Bandwidth, Band 3  
Beamforming, ANT B  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH100

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH102



CH120



CH118



CH140



CH134





26dB Bandwidth, Band 3  
Beamforming, ANT B  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH106



CH122





26dB Bandwidth, Band 3  
Beamforming, ANT C  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH100



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH102



CH120



CH118



CH140



CH134





26dB Bandwidth, Band 3  
Beamforming, ANT C  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH106



CH122





26dB Bandwidth, Band 3  
Beamforming, ANT D  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH100



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH102



CH120



CH118



CH140



CH134





26dB Bandwidth, Band 3  
Beamforming, ANT D  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH106



CH122





26dB Bandwidth, Band 3  
Beamforming, ANT A  
Modulation Type: 802.11ax HE160 (61.3Mbps)  
CH114





26dB Bandwidth, Band 3  
Beamforming, ANT B  
Modulation Type: 802.11ax HE160 (61.3Mbps)  
CH114







26dB Bandwidth, Band 3  
Beamforming, ANT C  
Modulation Type: 802.11ax HE160 (61.3Mbps)  
CH114





26dB Bandwidth, Band 3  
Beamforming, ANT D  
Modulation Type: 802.11ax HE160 (61.3Mbps)  
CH114





26dB Bandwidth  
Beamforming, ANT A  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





26dB Bandwidth  
Beamforming, ANT B  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





26dB Bandwidth  
Beamforming, ANT C  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





26dB Bandwidth  
Beamforming, ANT D  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





26dB Bandwidth  
Beamforming, ANT A  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50

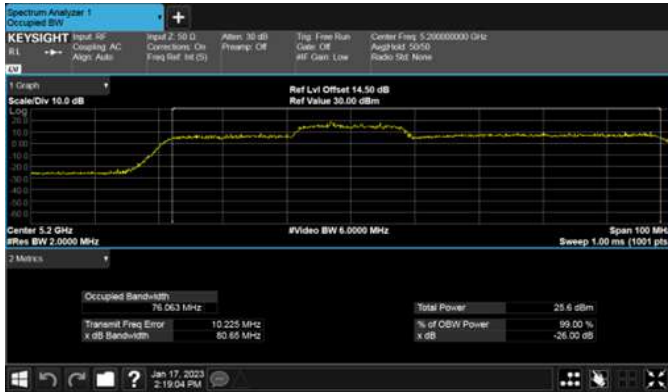


Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50

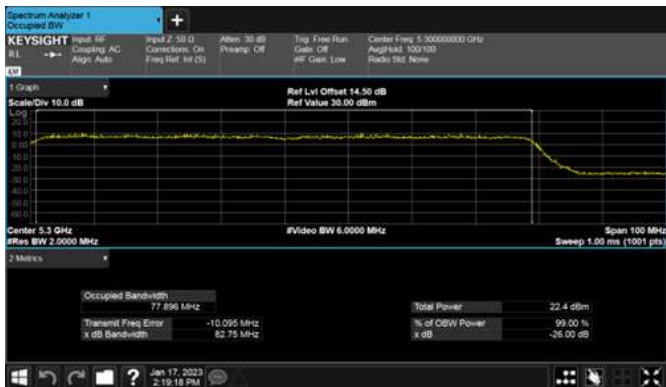




26dB Bandwidth  
Beamforming, ANT B  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



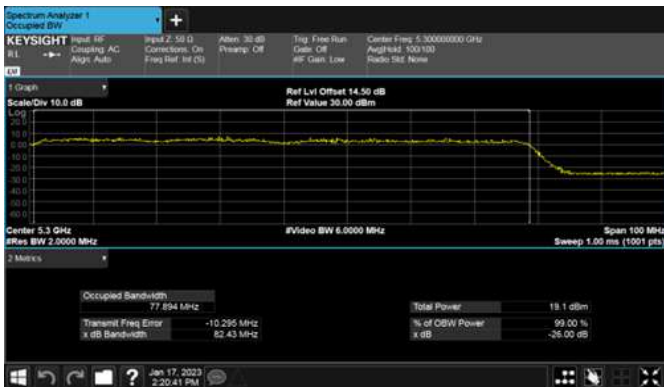




26dB Bandwidth  
Beamforming, ANT C  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





26dB Bandwidth  
Beamforming, ANT D  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





99% Bandwidth, Band 1  
Beamforming, ANT A  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH36



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH38



CH40



CH46



CH48





99% Bandwidth, Band 1  
Beamforming, ANT A  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH42





99% Bandwidth, Band 1  
Beamforming, ANT B  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH36



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH38



CH40



CH46



CH48





99% Bandwidth, Band 1  
Beamforming, ANT B  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH42





99% Bandwidth, Band 1  
Beamforming, ANT C  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH36



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH38



CH40



CH46



CH48





99% Bandwidth, Band 1  
Beamforming, ANT C  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH42



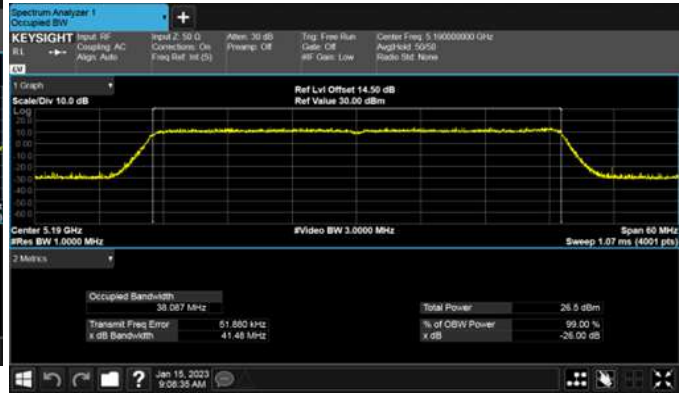




99% Bandwidth, Band 1  
Beamforming, ANT D  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH36



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH38



CH40



CH46



CH48





99% Bandwidth, Band 1

Beamforming, ANT D

Modulation Type: 802.11ax HE80(30.6Mbps)

CH42





99% Bandwidth, Band 2  
Beamforming, ANT A  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH52

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH54



CH60

CH62



CH64





99% Bandwidth, Band 2  
Beamforming, ANT A  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH58





99% Bandwidth, Band 2  
Beamforming, ANT B  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH52



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH54



CH60



CH62



CH64





99% Bandwidth, Band 2  
Beamforming, ANT B  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH58

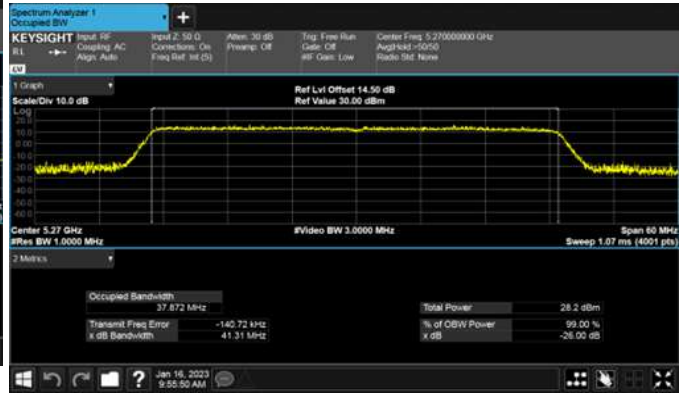




99% Bandwidth, Band 2  
Beamforming, ANT C  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH52



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH54



CH60



CH62



CH64





99% Bandwidth, Band 2  
Beamforming, ANT C  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH58







99% Bandwidth, Band 2  
Beamforming, ANT D  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH52

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH54



CH60



CH62



CH64





99% Bandwidth, Band 2  
Beamforming, ANT D  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH58





99% Bandwidth, Band 3  
Beamforming, ANT A  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH100



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH102



CH120



CH118



CH140



CH134





99% Bandwidth, Band 3  
Beamforming, ANT A  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH106



CH122

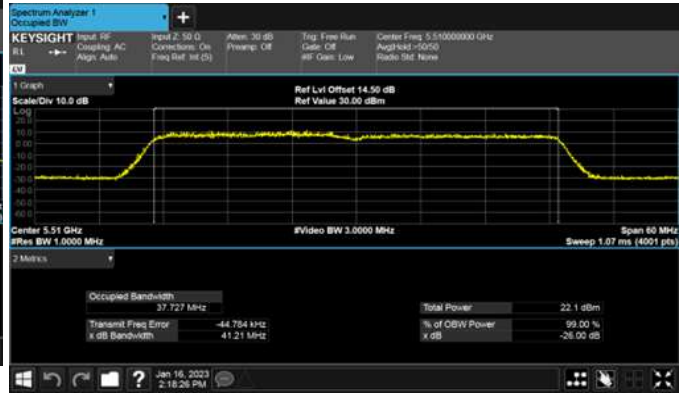




99% Bandwidth, Band 3  
Beamforming, ANT B  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH100



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH102



CH120



CH118



CH140



CH134





99% Bandwidth, Band 3  
Beamforming, ANT B  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH106



CH122





99% Bandwidth, Band 3  
Beamforming, ANT C  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH100



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH102



CH120



CH118



CH140



CH134





99% Bandwidth, Band 3  
Beamforming, ANT C  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH106



CH122



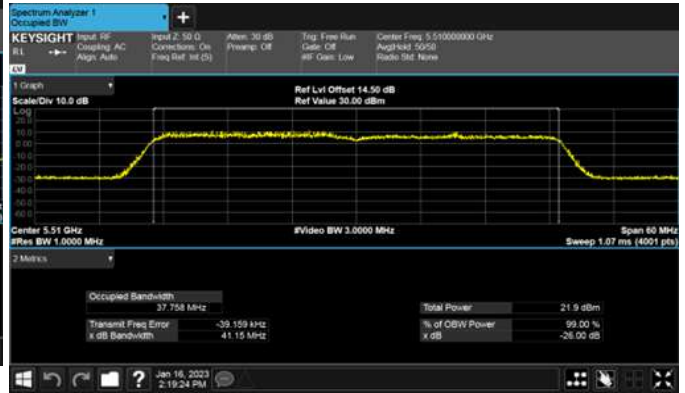




99% Bandwidth, Band 3  
Beamforming, ANT D  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH100



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH102



CH120



CH118



CH140



CH134





99% Bandwidth, Band 3  
Beamforming, ANT D  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH106



CH122





99% Bandwidth, Band 3  
Beamforming, ANT A  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH114





99% Bandwidth, Band 3  
Beamforming, ANT B  
Modulation Type: 802.11ax HE160 (61.3Mbps)  
CH114





99% Bandwidth, Band 3  
Beamforming, ANT C  
Modulation Type: 802.11ax HE160 (61.3Mbps)  
CH114





99% Bandwidth, Band 3  
Beamforming, ANT D  
Modulation Type: 802.11ax HE160 (61.3Mbps)  
CH114





99% Bandwidth  
Beamforming, ANT A  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





99% Bandwidth  
Beamforming, ANT B  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138







99% Bandwidth  
Beamforming, ANT C  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





99% Bandwidth  
Beamforming, ANT D  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





99% Bandwidth  
Beamforming, ANT A  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





99% Bandwidth  
Beamforming, ANT B  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50

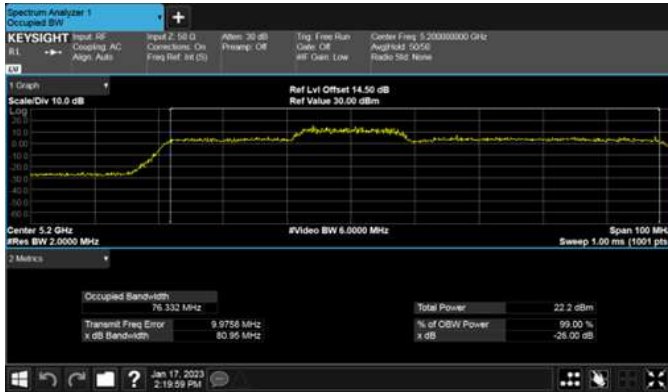


Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





99% Bandwidth  
Beamforming, ANT C  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





99% Bandwidth  
Beamforming, ANT D  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





### 10. Average Power

#### 10.1. Test Limit

**Output Power:**

Frequency Band		Limit
<input checked="" type="checkbox"/>	5.15~5.25GHz	
Operating Mode		
<input type="checkbox"/>	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed 125 mW (21 dBm).
<input checked="" type="checkbox"/>	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input type="checkbox"/>	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
<input type="checkbox"/>	client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



Frequency Band	Limit
<input checked="" type="checkbox"/> 5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input checked="" type="checkbox"/> 5.470-5.725 GHz	
<input checked="" type="checkbox"/> 5.725~5.85 GHz	

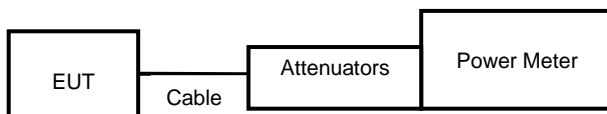
### 10.2. Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 12.3

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1.0 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

### 10.3. Test Setup Layout





**10.4. Test Result and Data**

Non BeamForming

**In the 5.2G Band**

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)				Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B	ANT C	ANT D			
11a	6 Mbps	83	36	5180	20.79	21.69	21.37	20.58	27.15	518.897	30.00
11a	6 Mbps	86	40	5200	21.64	22.49	22.20	21.18	27.93	620.479	30.00
11a	6 Mbps	87	48	5240	21.70	22.58	22.35	21.39	28.05	638.557	30.00
11ax HE20	NSS1-MCS0	80	36	5180	20.73	21.51	20.93	20.12	26.87	486.565	30.00
11ax HE20	NSS1-MCS0	85	40	5200	21.61	22.56	22.16	21.25	27.94	622.968	30.00
11ax HE20	NSS1-MCS0	86	48	5240	21.94	22.79	22.30	21.28	28.13	650.523	30.00
11ax HE40	NSS1-MCS0	76	38	5190	19.48	20.44	20.11	18.96	25.81	380.648	30.00
11ax HE40	NSS1-MCS0	92	46	5230	22.60	23.77	23.43	22.22	29.07	807.219	30.00
11ax HE80	NSS1-MCS0	73	42	5210	18.98	19.34	19.11	18.21	24.95	312.661	30.00

**In the 5.3G Band**

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)				Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B	ANT C	ANT D			
11a	6 Mbps	62	52	5260	15.96	16.13	16.42	15.47	22.03	159.556	24.00
11a	6 Mbps	63	60	5300	15.87	16.20	16.64	15.57	22.11	162.513	24.00
11a	6 Mbps	63	64	5320	15.76	16.12	16.45	15.44	21.98	157.748	24.00
11ax HE20	NSS1-MCS0	61	52	5260	15.96	15.98	16.49	15.42	22.00	158.473	24.00
11ax HE20	NSS1-MCS0	62	60	5300	15.99	16.39	16.60	15.64	22.19	165.623	24.00
11ax HE20	NSS1-MCS0	62	64	5320	15.84	16.27	16.55	15.36	22.05	160.276	24.00
11ax HE40	NSS1-MCS0	68	54	5270	17.65	18.39	18.30	16.88	23.87	243.595	24.00
11ax HE40	NSS1-MCS0	69	62	5310	17.68	18.44	18.35	17.04	23.93	247.411	24.00
11ax HE80	NSS1-MCS0	69	58	5290	17.81	18.34	18.26	17.15	23.94	247.497	24.00



Non BeamForming  
In the 5.6 G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)				Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B	ANT C	ANT D			
11a	6 Mbps	61	100	5500	15.09	15.24	15.88	14.94	21.32	135.619	23.43
11a	6 Mbps	60	120	5600	15.37	16.14	16.14	15.60	21.85	152.973	23.43
11a	6 Mbps	60	140	5700	15.26	16.04	15.98	15.34	21.69	147.579	23.43
11ax HE20	NSS1-MCS0	62	100	5500	15.77	15.98	16.47	15.60	21.99	158.054	23.43
11ax HE20	NSS1-MCS0	61	120	5600	15.95	16.65	16.60	16.01	22.34	171.204	23.43
11ax HE20	NSS1-MCS0	61	140	5700	15.91	16.36	16.39	15.87	22.16	164.433	23.43
11ax HE40	NSS1-MCS0	68	102	5510	16.74	17.61	18.01	17.02	23.39	218.474	23.43
11ax HE40	NSS1-MCS0	68	118	5590	16.73	17.53	17.93	16.98	23.34	215.697	23.43
11ax HE40	NSS1-MCS0	66	134	5670	16.96	17.51	17.77	16.76	23.29	213.288	23.43
11ax HE80	NSS1-MCS0	64	106	5530	16.74	16.33	17.11	16.35	22.67	184.716	23.43
11ax HE80	NSS1-MCS0	68	122	5610	17.15	17.54	17.78	16.88	23.37	217.366	23.43
11ax HE160	NSS1-MCS0	51	114	5570	12.88	11.57	13.26	12.77	18.68	73.871	23.43

In the 5.8G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)				Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B	ANT C	ANT D			
11a	6 Mbps	95	149	5745	23.56	24.41	24.06	23.38	29.89	975.498	30.00
11a	6 Mbps	95	157	5785	23.43	24.51	23.91	23.45	29.87	970.127	30.00
11a	6 Mbps	95	165	5825	23.45	24.55	23.89	23.15	29.81	957.856	30.00
11ax HE20	NSS1-MCS0	94	149	5745	23.67	24.55	24.04	23.53	29.99	996.848	30.00
11ax HE20	NSS1-MCS0	94	157	5785	23.61	24.51	24.05	23.46	29.95	988.020	30.00
11ax HE20	NSS1-MCS0	94	165	5825	23.51	24.47	23.92	23.33	29.85	966.168	30.00
11ax HE40	NSS1-MCS0	95	151	5755	23.61	24.71	24.02	23.38	29.98	995.535	30.00
11ax HE40	NSS1-MCS0	95	159	5795	23.53	24.70	23.95	23.28	29.92	981.672	30.00
11ax HE80	NSS1-MCS0	87	155	5775	21.83	22.78	22.17	21.84	28.19	659.649	30.00



Non BeamForming

FCC Maximum Conducted Output Power (Within 5470-5725MHz band)

Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)				W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A	ANT B	ANT C	ANT D					
61	11a	6M	5720	14.71	15.13	15.16	14.36	20.87	0.20	128.025	21.07	22.42
60	11ax HE20	NSS1-MCS0	5720	14.57	14.95	14.84	14.12	20.65	0.00	116.204	20.65	22.42
67	11ax HE40	NSS1-MCS0	5710	17.07	17.24	17.63	16.61	23.17	0.15	214.954	23.32	23.43
65	11ax HE80	NSS1-MCS0	5690	16.90	17.11	17.32	16.42	22.97	0.29	211.872	23.26	23.43

FCC Maximum Conducted Output Power (Extends across 5725MHz band)

Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)				W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A	ANT B	ANT C	ANT D					
61	11a	6M	5720	8.24	8.60	8.74	8.26	14.49	0.20	29.417	14.69	30.00
60	11ax HE20	NSS1-MCS0	5720	9.42	9.73	9.52	8.91	15.43	0.00	34.881	15.43	30.00
67	11ax HE40	NSS1-MCS0	5710	7.08	7.54	7.56	6.86	13.29	0.15	22.085	13.44	30.00
65	11ax HE80	NSS1-MCS0	5690	3.27	3.60	3.52	3.00	9.37	0.29	9.256	9.66	30.00

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)				Total Power (dBm)
					ANT A	ANT B	ANT C	ANT D	
Meter power (for full power)									
11a	6 Mbps	61	Ch144	5720MHz	15.54	16.29	16.19	15.60	21.94
11ax HE20	NSS1-MCS0	60	Ch144	5720MHz	15.68	16.22	16.20	15.60	21.96
11ax HE40	NSS1-MCS0	67	Ch142	5710MHz	17.20	17.68	17.91	16.81	23.44
11ax HE80	NSS1-MCS0	65	Ch138	5690MHz	16.67	17.02	17.29	16.22	22.84

Note: Power Meter Average power is for reference only.



Non BeamForming

FCC Maximum Conducted Output Power (Within 5150-5250MHz band)

Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)				W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A	ANT B	ANT C	ANT D					
66	11ax HE160	NSS1-MCS0	5250	13.79	14.41	14.22	12.95	19.90	0.46	108.602	20.36	30.00

FCC Maximum Conducted Output Power (Extends across 5250MHz band)

Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)				W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A	ANT B	ANT C	ANT D					
66	11ax HE160	NSS1-MCS0	5250	14.06	14.36	14.62	13.23	20.12	0.46	114.252	20.58	24.00

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)				Total Power (dBm)
					ANT A	ANT B	ANT C	ANT D	
Meter power (for full power)									
11ax HE160	NSS1-MCS0	66	50	5250	16.93	17.34	17.26	16.31	23.00

Note: Power Meter Average power is for reference only.



BeamForming

**In the 5.2G Band**

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)				Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B	ANT C	ANT D			
11ax HE20	NSS1-MCS0	85	36	5180	22.23	23.12	22.85	21.74	28.54	714.257	30.00
11ax HE20	NSS1-MCS0	93	40	5200	21.80	24.71	22.13	23.61	29.24	840.077	30.00
11ax HE20	NSS1-MCS0	95	48	5240	23.71	24.93	23.54	23.51	29.98	996.467	30.00
11ax HE40	NSS1-MCS0	75	38	5190	19.36	20.46	20.15	19.02	25.81	380.785	30.00
11ax HE40	NSS1-MCS0	95	46	5230	23.60	24.96	23.28	23.37	29.88	972.499	30.00
11ax HE80	NSS1-MCS0	81	42	5210	20.77	21.76	20.96	20.07	26.95	495.731	30.00

**In the 5.3G Band**

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)				Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B	ANT C	ANT D			
11ax HE20	NSS1-MCS0	67	52	5260	17.45	17.89	18.52	17.11	23.80	239.634	24.00
11ax HE20	NSS1-MCS0	70	60	5300	17.00	18.01	18.41	17.19	23.71	235.063	24.00
11ax HE20	NSS1-MCS0	70	64	5320	17.25	18.22	18.34	16.99	23.76	237.700	24.00
11ax HE40	NSS1-MCS0	67	54	5270	17.71	18.72	18.12	16.99	23.95	248.360	24.00
11ax HE40	NSS1-MCS0	66	62	5310	17.32	18.53	18.12	16.86	23.78	238.629	24.00
11ax HE80	NSS1-MCS0	69	58	5290	17.56	18.59	18.33	17.11	23.96	248.775	24.00



BeamForming  
In the 5.6 G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)				Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B	ANT C	ANT D			
11ax HE20	NSS1-MCS0	65	100	5500	16.91	16.74	17.44	16.39	22.91	195.311	23.43
11ax HE20	NSS1-MCS0	63	120	5600	16.58	16.93	17.93	16.84	23.12	205.209	23.43
11ax HE20	NSS1-MCS0	63	140	5700	17.23	17.07	17.89	16.94	23.32	214.726	23.43
11ax HE40	NSS1-MCS0	65	102	5510	16.89	16.91	17.51	16.07	22.90	194.777	23.43
11ax HE40	NSS1-MCS0	67	118	5590	17.31	16.67	17.88	16.69	23.19	208.321	23.43
11ax HE40	NSS1-MCS0	64	134	5670	17.23	17.55	17.68	16.81	23.35	216.317	23.43
11ax HE80	NSS1-MCS0	67	106	5530	16.91	18.11	17.06	16.69	23.25	211.287	23.43
11ax HE80	NSS1-MCS0	65	122	5610	17.36	17.42	17.71	16.98	23.40	218.567	23.43
11ax HE160	NSS1-MCS0	67	114	5570	16.92	17.32	17.88	16.32	23.17	207.386	23.43

In the 5.8G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)				Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B	ANT C	ANT D			
11ax HE20	NSS1-MCS0	93	149	5745	23.56	24.83	23.30	23.84	29.94	986.974	30.00
11ax HE20	NSS1-MCS0	94	157	5785	23.67	25.00	23.09	23.81	29.97	993.177	30.00
11ax HE20	NSS1-MCS0	95	165	5825	23.57	25.06	23.02	23.82	29.95	989.574	30.00
11ax HE40	NSS1-MCS0	94	151	5755	23.45	24.88	23.31	23.48	29.85	966.052	30.00
11ax HE40	NSS1-MCS0	95	159	5795	23.55	25.14	23.16	23.63	29.96	990.741	30.00
11ax HE80	NSS1-MCS0	90	155	5775	22.72	23.89	22.79	22.89	29.12	816.618	30.00



BeamForming

FCC Maximum Conducted Output Power (Within 5470-5725MHz band)

Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)				W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A	ANT B	ANT C	ANT D					
63	11ax HE20	NSS1-MCS0	5720	15.76	15.86	14.34	14.67	21.23	0.12	136.409	21.35	22.47
69	11ax HE40	NSS1-MCS0	5710	17.86	17.88	16.47	13.83	22.81	0.38	208.450	23.19	23.43
66	11ax HE80	NSS1-MCS0	5690	17.45	17.48	15.68	16.14	22.78	0.32	204.167	23.10	23.43

FCC Maximum Conducted Output Power (Extends across 5725MHz band)

Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)				W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A	ANT B	ANT C	ANT D					
63	11ax HE20	NSS1-MCS0	5720	10.35	10.59	9.56	9.60	16.07	0.12	41.584	16.19	30.00
69	11ax HE40	NSS1-MCS0	5710	7.37	9.75	6.86	3.67	13.44	0.38	24.098	13.82	30.00
66	11ax HE80	NSS1-MCS0	5690	4.30	7.07	-0.39	2.82	10.26	0.32	11.425	10.58	30.00

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)				Total Power (dBm)
					ANT A	ANT B	ANT C	ANT D	
Meter power (for full power)									
11ax HE20	NSS1-MCS0	63	Ch144	5720MHz	16.98	17.68	17.63	16.94	23.34
11ax HE40	NSS1-MCS0	69	Ch142	5710MHz	18.51	18.94	18.71	17.95	24.56
11ax HE80	NSS1-MCS0	66	Ch138	5690MHz	17.55	18.05	18.13	17.34	23.80

Note: Power Meter Average power is for reference only.



BeamForming

FCC Maximum Conducted Output Power (Within 5150-5250MHz band)												
RF Output Power(dBm)												
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)				W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A	ANT B	ANT C	ANT D					
77	11ax HE160	NSS1-MCS0	5250	15.97	13.74	11.64	11.82	19.68	0.17	96.702	19.85	30.00

FCC Maximum Conducted Output Power (Extends across 5250MHz band)												
RF Output Power(dBm)												
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)				W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A	ANT B	ANT C	ANT D					
77	11ax HE160	NSS1-MCS0	5250	16.34	13.74	10.22	11.94	19.68	0.17	96.570	19.85	24.00

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)				Total Power (dBm)
					ANT A	ANT B	ANT C	ANT D	
Meter power (for full power)									
11ax HE160	NSS1-MCS0	77	50	5250	19.52	20.89	20.38	19.43	26.12

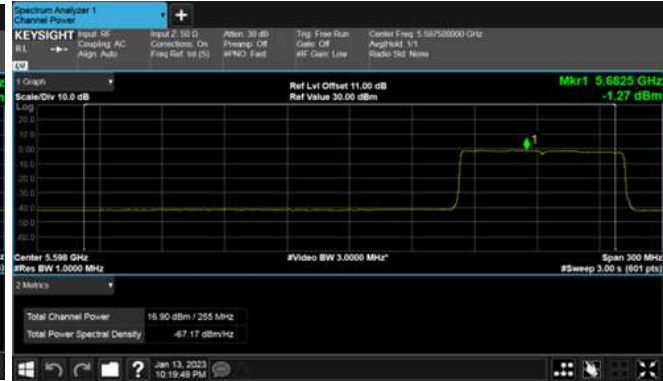
Note: Power Meter Average power is for reference only.





Non-Beamforming, ANT A  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11a (6Mbps)  
CH144

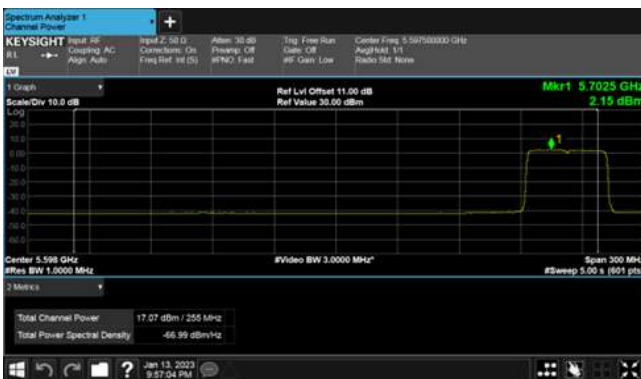
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CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



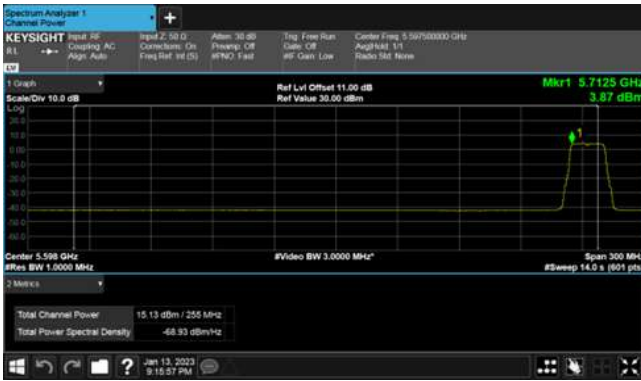
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



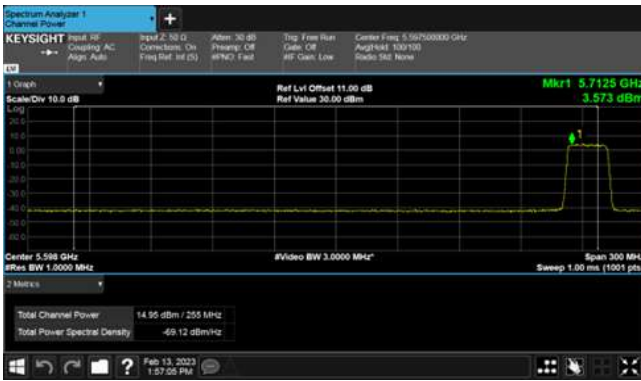


Non-Beamforming, ANT B  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11a (6Mbps)  
CH144

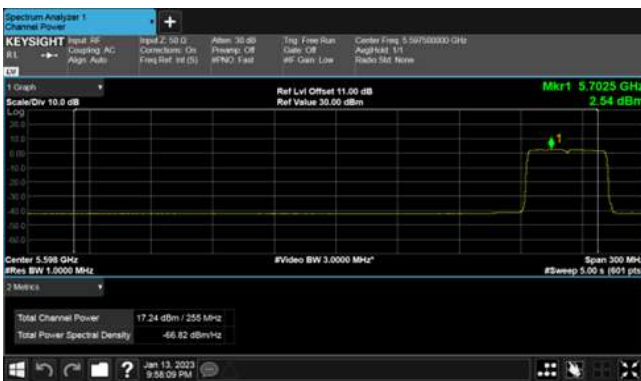
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



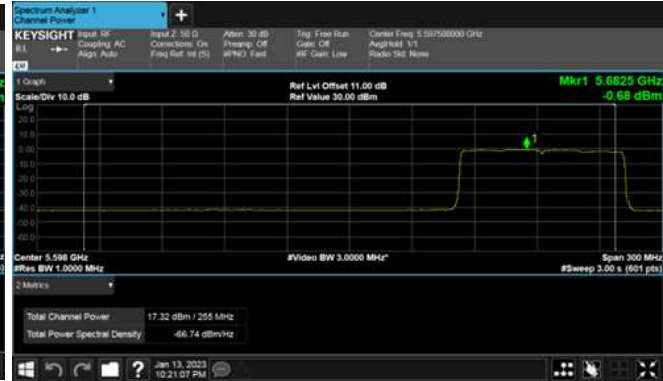
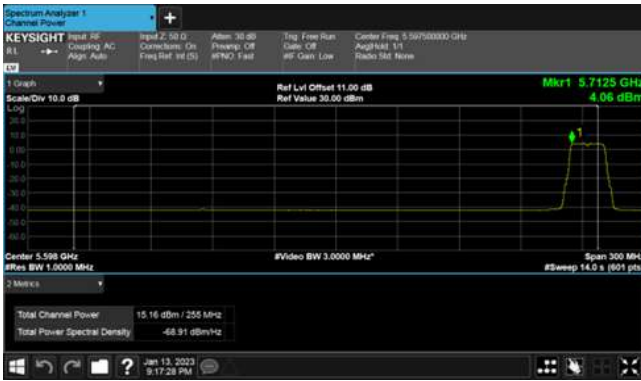
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





Non-Beamforming, ANT C  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11a (6Mbps)  
CH144

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



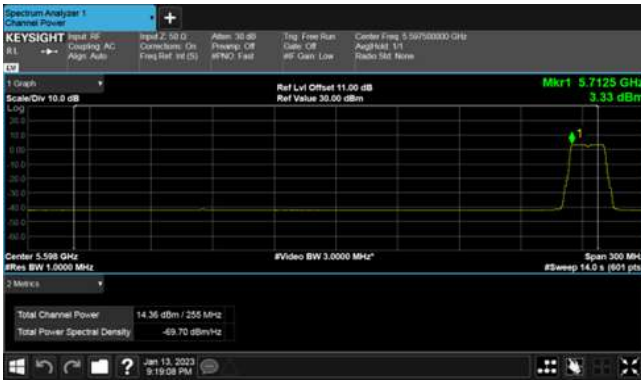
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





Non-Beamforming, ANT D  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11a (6Mbps)  
CH144

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





Non-Beamforming, ANT A  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





Non-Beamforming, ANT B  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





Non-Beamforming, ANT C  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





Non-Beamforming, ANT D  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142







Non-Beamforming, ANT A  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





Non-Beamforming, ANT B  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





Non-Beamforming, ANT C  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50





Non-Beamforming, ANT D  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50

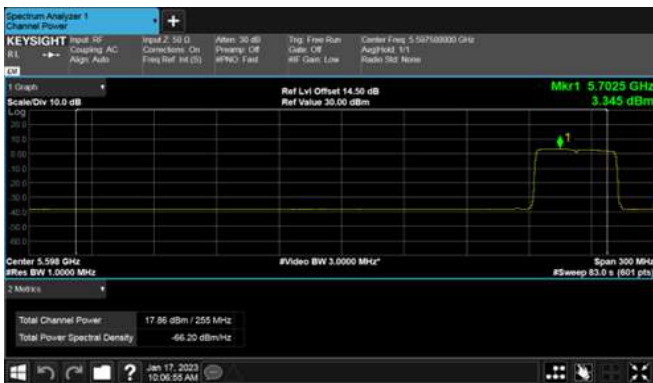




Beamforming, ANT A  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





Beamforming, ANT B  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





Beamforming, ANT C  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





Beamforming, ANT D  
Within 5470-5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138







Beamforming, ANT A  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





Beamforming, ANT B  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





Beamforming, ANT C  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





Beamforming, ANT D  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





Beamforming, ANT A  
Straddle Channel, Within 5150-5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50



Straddle Channel, Extends across 5250MHz band  
Modulation Type: 802. 11ax HE160 (61.3Mbps)  
CH50

