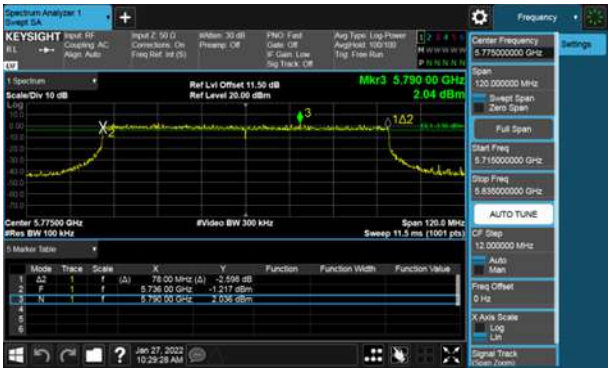
6dB Bandwidth
BeamForming
ANT A
Modulation Type: 802.11ac, VHT80 (29.3Mbps)
CH155



6dB Bandwidth

BeamForming

ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH149

Modulation Type: 802.11ax HE40 (14.6Mbps)

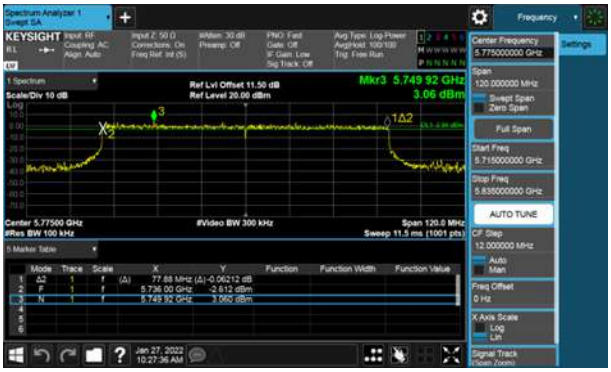
CH151

CH157

CH159

CH165

6dB Bandwidth
BeamForming
ANT B
Modulation Type: 802.11ac, VHT80 (29.3Mbps)
CH155



99% Occupied Bandwidth

BeamForming

ANT A

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH149

Modulation Type: 802.11ax HE40 (14.6Mbps)

CH151

CH157

CH159

CH165

99% Occupied Bandwidth
BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH155

99% Occupied Bandwidth

BeamForming

ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH149

Modulation Type: 802.11ax HE40 (14.6Mbps)

CH151

CH157

CH159

CH165

99% Occupied Bandwidth
BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH155

9. 26dB Bandwidth & 99% Occupied Bandwidth

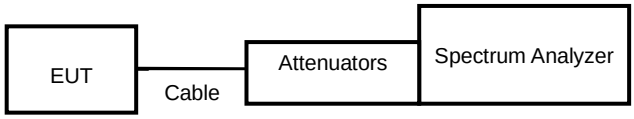
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW >= 3 x RBW, peak detector and max hold.

9.3. Test Setup Layout



9.4. Test Result and Data

Non BeamForming

In the 5.2G Band				
Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	36	5180	20.43	20.67
11a	40	5200	20.8	20.44
11a	48	5240	20.71	20.64
11ac VHT20	36	5180	21.31	21.44
11ac VHT20	40	5200	21.59	21.22
11ac VHT20	48	5240	21.47	21.72
11ac VHT40	38	5190	41.66	41.68
11ac VHT40	46	5230	41.48	41.48
11ac VHT80	42	5210	82.22	82.26
11ax HE20	36	5180	21.38	21.41
11ax HE20	40	5200	21.72	21.58
11ax HE20	48	5240	21.7	21.82
11ax HE40	38	5190	42.21	41.66
11ax HE40	46	5230	41.6	41.85
11ax HE80	42	5210	83.44	82.26

Non BeamForming

In the 5.2G Band				
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	36	5180	16.43	16.43
11a	40	5200	16.43	16.43
11a	48	5240	16.43	16.43
11ac VHT20	36	5180	17.63	17.62
11ac VHT20	40	5200	17.62	17.62
11ac VHT20	48	5240	17.62	17.61
11ac VHT40	38	5190	36.28	36.23
11ac VHT40	46	5230	36.24	36.25
11ac VHT80	42	5210	75.34	75.34
11ax HE20	36	5180	18.93	18.93
11ax HE20	40	5200	18.93	18.94
11ax HE20	48	5240	18.93	18.92
11ax HE40	38	5190	37.94	37.92
11ax HE40	46	5230	37.91	37.96
11ax HE80	42	5210	77.12	77.07

BeamForming

In the 5.2G Band				
Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11ax HE20	36	5180	22.52	22.17
11ax HE20	40	5200	22.65	22.8
11ax HE20	48	5240	22.81	22.63
11ax HE40	38	5190	44.42	44.76
11ax HE40	46	5230	44.64	45.59
11ax HE80	42	5210	83.92	85.14

BeamForming

In the 5.2G Band				
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11ax HE20	36	5180	19.10	19.14
11ax HE20	40	5200	19.11	19.11
11ax HE20	48	5240	19.13	19.14
11ax HE40	38	5190	38.32	38.30
11ax HE40	46	5230	38.31	38.28
11ax HE80	42	5210	77.84	77.73

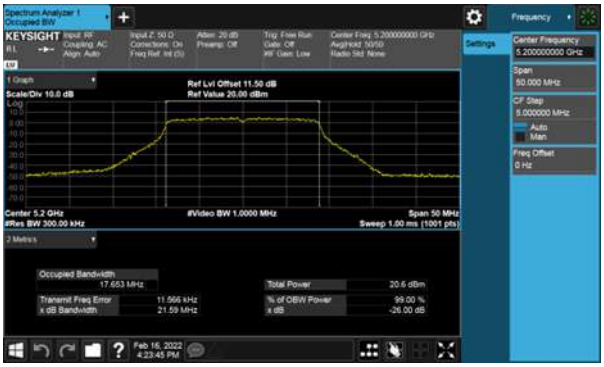
26dB Bandwidth
Non BeamForming
ANT A

Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36

CH40

CH40



CH48

CH48

26dB Bandwidth

Non BeamForming
ANT A
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

CH46

26dB Bandwidth
Non BeamForming
ANT A

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

CH40

CH46

CH48

26dB Bandwidth

Non BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

99% Occupied Bandwidth
Non BeamForming
ANT A

Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36

CH40

CH40

CH48

CH48

99% Occupied Bandwidth

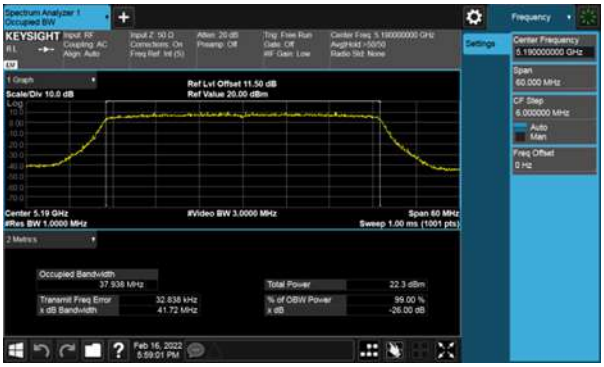
Non BeamForming
ANT A
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

CH46

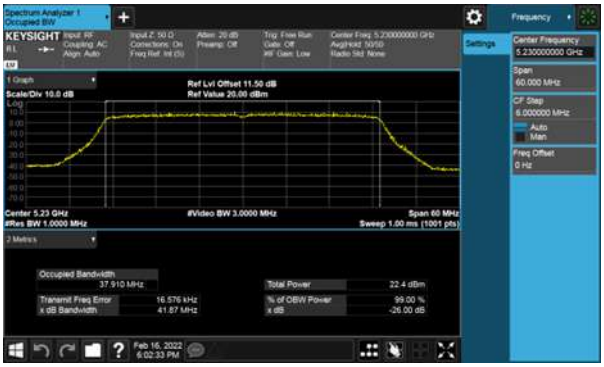
99% Occupied Bandwidth
Non BeamForming
ANT A
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38



CH40

CH46



CH48

99% Occupied Bandwidth

Non BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

26dB Bandwidth
Non BeamForming
ANT B

Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36

CH40

CH40

CH48

CH48

26dB Bandwidth

Non BeamForming
ANT B
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

CH46

26dB Bandwidth
Non BeamForming
ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

CH40

CH46

CH48

26dB Bandwidth

Non BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

99% Occupied Bandwidth
Non BeamForming
ANT B

Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36

CH40

CH40

CH48

CH48

99% Occupied Bandwidth

Non BeamForming
ANT B
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

CH46

99% Occupied Bandwidth
Non BeamForming
ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

CH40

CH46

CH48

99% Occupied Bandwidth

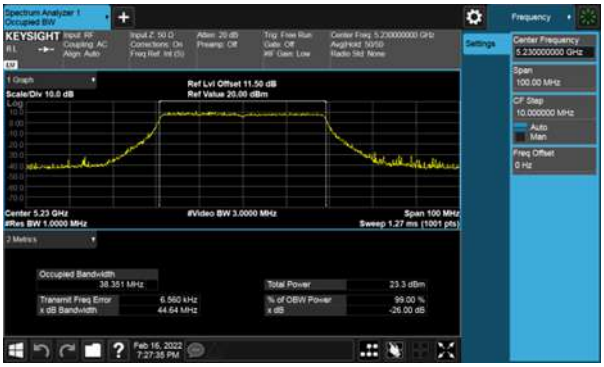
Non BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

26dB Bandwidth
BeamForming
ANT A
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

CH40

CH46



CH48

26dB Bandwidth

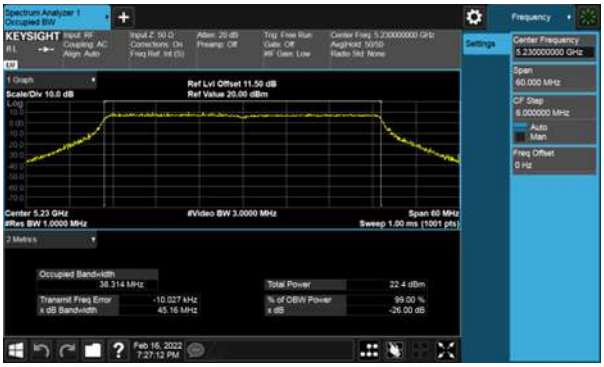
BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

99% Occupied Bandwidth
BeamForming
ANT A
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

CH40

CH46



CH48

99% Occupied Bandwidth

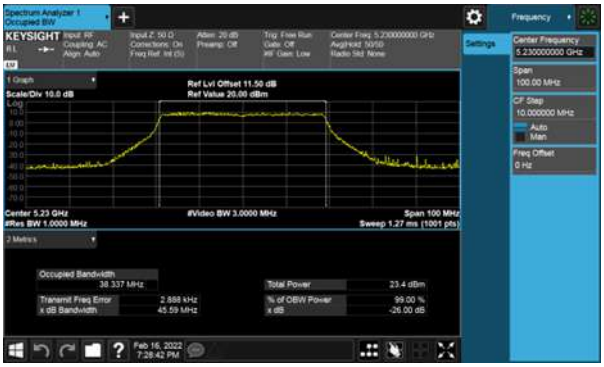
BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

26dB Bandwidth
BeamForming
ANT B
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

CH40

CH46



CH48

26dB Bandwidth

BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

99% Occupied Bandwidth
BeamForming
ANT B
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

CH40

CH46

CH48

99% Occupied Bandwidth

BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

10. Average Power

10.1. Test Limit

Output Power:

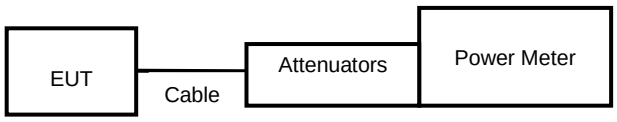
Frequency Band			Limit
☒	5.15~5.25GHz		
	Operating Mode		
	☒	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi 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 exceed125 mW (21 dBm).
	☐	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.
	☐	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.
	☐	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
☐	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.
☐	5.470-5.725 GHz	
☒	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

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 11.5 dB (including 10 dB pad and 1.5 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)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
					ANT A	ANT B			
802.11a	6 Mbps	12	36	5180	12.46	12.30	15.39	34.602	29.51
	6 Mbps	12	40	5200	12.67	12.22	15.46	35.165	29.51
	6 Mbps	12	48	5240	13.07	12.53	15.82	38.183	29.51
802.11an HT20	MCS 0	12.5	36	5180	12.51	12.93	15.74	37.457	29.51
	MCS 0	12.5	40	5200	12.78	12.55	15.68	36.956	29.51
	MCS 0	12	48	5240	12.72	12.52	15.63	36.572	29.51
802.11an HT40	MCS 0	12	38	5190	12.75	12.74	15.76	37.630	29.51
	MCS 0	11.5	46	5230	12.75	12.55	15.66	36.825	29.51
802.11ac VHT20	NSS1-MCS0	12.5	36	5180	12.53	12.95	15.76	37.630	29.51
	NSS1-MCS0	12.5	40	5200	12.8	12.57	15.70	37.126	29.51
	NSS1-MCS0	12	48	5240	12.74	12.54	15.65	36.741	29.51
802.11ac VHT40	NSS1-MCS0	12	38	5190	12.75	12.82	15.80	37.979	29.51
	NSS1-MCS0	11.5	46	5230	12.77	12.57	15.68	36.995	29.51
802.11ac VHT80	NSS1-MCS0	12.5	42	5210	12.75	12.8	15.79	37.891	29.51
802.11ax HE20	NSS1-MCS0	12.5	36	5180	12.16	12.62	15.41	34.725	29.51
	NSS1-MCS0	12.5	40	5200	12.45	12.48	15.48	35.280	29.51
	NSS1-MCS0	12.5	48	5240	12.85	12.79	15.83	38.286	29.51
802.11ax HE40	NSS1-MCS0	12.5	38	5190	12.76	12.75	15.77	37.716	29.51
	NSS1-MCS0	12	46	5230	12.79	12.63	15.72	37.334	29.51
802.11ax HE80	NSS1-MCS0	12.5	42	5210	12.41	12.51	15.47	35.242	29.51

Non BeamForming

In the 5.8G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
					ANT A	ANT B			
802.11a	6 Mbps	24	149	5745	23.62	23.67	26.66	462.953	29.66
	6 Mbps	24	157	5785	23.63	23.86	26.76	473.895	29.66
	6 Mbps	24	165	5825	23.64	23.89	26.78	476.113	29.66
802.11an HT20	MCS 0	25	149	5745	24.12	23.83	26.99	499.772	29.66
	MCS 0	25	157	5785	24.17	24.39	27.29	536.006	29.66
	MCS 0	24	165	5825	23.24	24.02	26.66	463.211	29.66
802.11an HT40	MCS 0	24	151	5755	23.91	23.84	26.89	488.140	29.66
	MCS 0	24	159	5795	23.93	24.21	27.08	510.806	29.66
802.11ac VHT20	NSS1-MCS0	24	149	5745	24.15	23.86	27.02	503.236	29.66
	NSS1-MCS0	24	157	5785	24.20	24.42	27.32	539.721	29.66
	NSS1-MCS0	24	165	5825	23.67	24.05	26.87	486.906	29.66
802.11ac VHT40	NSS1-MCS0	24	151	5755	23.94	23.87	26.92	491.523	29.66
	NSS1-MCS0	24	159	5795	23.96	24.24	27.11	514.346	29.66
802.11ac VHT80	NSS1-MCS0	24	155	5775	23.66	23.63	26.66	462.948	29.66
802.11ax HE20	NSS1-MCS0	24	149	5745	24.03	24.11	27.08	510.562	29.66
	NSS1-MCS0	24	157	5785	24.16	24.33	27.26	531.635	29.66
	NSS1-MCS0	24	165	5825	23.11	23.88	26.52	448.988	29.66
802.11ax HE40	NSS1-MCS0	24	151	5755	23.65	23.58	26.63	459.774	29.66
	NSS1-MCS0	24	159	5795	23.64	24.01	26.84	482.974	29.66
802.11ax HE80	NSS1-MCS0	24	155	5775	24.28	24.35	27.33	540.187	29.66

Non BeamForming
The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed125 mW (21 dBm).

Modulation Type	Data Rate	Channel (MHz)	Frequency (MHz)	Measured value of each antenna port (dBm)		Total Power (dBm)	Gain above 30° (dB)	Total E.I.R.P above 30° (dBm)	Total E.I.R.P above 30° (mW)	E.I.R.P Limit (dBm)
11a	6 Mbps	36	5180	Chain 0	12.46	15.39	5.16	20.55	113.53	21
				Chain 1	12.3					
11a	6 Mbps	40	5200	Chain 0	12.67	15.46	5.16	20.62	115.38	21
				Chain 1	12.22					
11a	6 Mbps	48	5240	Chain 0	13.07	15.82	5.16	20.98	125.41	21
				Chain 1	12.54					
11n HT20	MCS 0	36	5180	Chain 0	12.51	15.74	5.16	20.90	122.90	21
				Chain 1	12.93					
11n HT20	MCS 0	40	5200	Chain 0	12.78	15.68	5.16	20.84	121.25	21
				Chain 1	12.55					
11n HT20	MCS 0	48	5240	Chain 0	12.72	15.63	5.16	20.79	119.99	21
				Chain 1	12.52					
11n HT40	MCS 0	38	5190	Chain 0	12.75	15.76	5.16	20.92	123.46	21
				Chain 1	12.74					
11n HT40	MCS 0	46	5230	Chain 0	12.75	15.66	5.16	20.82	120.82	21
				Chain 1	12.55					
11ac VHT20	NSS1-MCS0	36	5180	Chain 0	12.53	15.76	5.16	20.92	123.46	21
				Chain 1	12.95					
11ac VHT20	NSS1-MCS0	40	5200	Chain 0	12.8	15.70	5.16	20.86	121.81	21
				Chain 1	12.57					
11ac VHT20	NSS1-MCS0	48	5240	Chain 0	12.74	15.65	5.16	20.81	120.54	21
				Chain 1	12.54					
11ac VHT40	NSS1-MCS0	38	5190	Chain 0	12.75	15.80	5.16	20.96	124.61	21
				Chain 1	12.82					
11ac VHT40	NSS1-MCS0	46	5230	Chain 0	12.77	15.68	5.16	20.84	121.38	21
				Chain 1	12.57					
11ac VHT80	NSS1-MCS0	42	5210	Chain 0	12.75	15.79	5.16	20.95	124.32	21
				Chain 1	12.8					
11ax HE20	NSS1-MCS0	36	5180	Chain 0	12.16	15.41	5.16	20.57	113.93	21
				Chain 1	12.62					
11ax HE20	NSS1-MCS0	40	5200	Chain 0	12.45	15.48	5.16	20.64	115.75	21
				Chain 1	12.48					
11ax HE20	NSS1-MCS0	48	5240	Chain 0	12.85	15.83	5.16	20.99	125.61	21
				Chain 1	12.79					
11ax HE40	NSS1-MCS0	38	5190	Chain 0	12.76	15.77	5.16	20.93	123.75	21
				Chain 1	12.75					
11ax HE40	NSS1-MCS0	46	5230	Chain 0	12.79	15.72	5.16	20.88	122.49	21
				Chain 1	12.63					
11ax HE80	NSS1-MCS0	42	5210	Chain 0	12.41	15.47	5.16	20.63	115.63	21
				Chain 1	12.51					

BeamForming

In the 5.2G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
					ANT A	ANT B			
802.11ax HE20	NSS1-MCS0	12	36	5180	9.32	9.78	12.57	18.057	26.53
	NSS1-MCS0	12	40	5200	9.53	8.88	12.23	16.701	26.53
	NSS1-MCS0	12	48	5240	10.06	9.22	12.67	18.495	26.53
802.11ax HE40	NSS1-MCS0	12	38	5190	9.56	8.83	12.22	16.675	26.53
	NSS1-MCS0	12	46	5230	9.72	8.82	12.30	16.996	26.53
802.11ax HE80	NSS1-MCS0	13	42	5210	9.76	9.59	12.69	18.562	26.53

BeamForming

In the 5.8G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
					ANT A	ANT B			
802.11ax HE20	NSS1-MCS0	25	149	5745	22.17	21.96	25.08	321.853	26.73
	NSS1-MCS0	25	157	5785	22.13	22.02	25.09	322.526	26.73
	NSS1-MCS0	25	165	5825	22.07	22.22	25.16	327.789	26.73
802.11ax HE40	NSS1-MCS0	24	151	5755	20.75	20.43	23.60	229.258	26.73
	NSS1-MCS0	25	159	5795	22.03	22.25	25.15	327.468	26.73
802.11ax HE80	NSS1-MCS0	24	155	5775	21.86	20.23	24.13	258.900	26.73

BeamForming
The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed125 mW (21 dBm).

Modulation Type	Data Rate	Channel (MHz)	Frequency (MHz)	Measured value of each antenna port (dBm)		Total Power (dBm)	Gain above 30° (dB)	Total E.I.R.P above 30° (dBm)	Total E.I.R.P above 30° (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	36	5180	Chain 0	9.32	12.57	8.09	20.66	116.32	21
				Chain 1	9.78					
11ax HE20	NSS1-MCS0	40	5200	Chain 0	9.53	12.23	8.09	20.32	107.58	21
				Chain 1	8.88					
11ax HE20	NSS1-MCS0	48	5240	Chain 0	10.06	12.67	8.09	20.76	119.14	21
				Chain 1	9.22					
11ax HE40	NSS1-MCS0	38	5190	Chain 0	9.56	12.22	8.09	20.31	107.41	21
				Chain 1	8.83					
11ax HE40	NSS1-MCS0	46	5230	Chain 0	9.72	12.30	8.09	20.39	109.49	21
				Chain 1	8.82					
11ax HE80	NSS1-MCS0	42	5210	Chain 0	9.76	12.69	8.09	20.78	119.57	21
				Chain 1	9.59					

11. Power Spectral Density

11.1.Test Limit

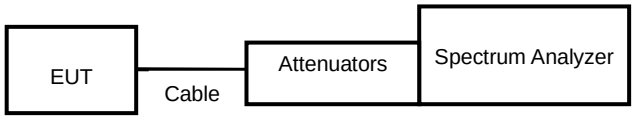
PSD:

Frequency Band			Limit
☒	5.15~5.25GHz		
	Operating Mode		
	☒	Outdoor access point	17 dBm/MHz
	☐	Indoor access point	17 dBm/MHz
	☐	Fixed point-to-point access points	17 dBm/MHz
	☐	Mobile and portable client devices	11 dBm/MHz
☐	5.725~5.85 GHz		11 dBm/MHz
☐	5.470-5.725 GHz		11 dBm/MHz
☒	5.725~5.85 GHz		30 dBm/500kHz

11.2.Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

11.3.Test Setup Layout



11.4. Test Result and Data

Non BeamForming

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
802.11a	36	5180	1.30	1.54	4.43	0.28	4.71	13.53
	40	5200	1.55	1.39	4.49	0.28	4.77	13.53
	48	5240	2.06	1.86	4.97	0.28	5.25	13.53
802.11ac VHT20	36	5180	0.93	1.29	4.12	0.21	4.33	13.53
	40	5200	1.12	1.18	4.16	0.21	4.37	13.53
	48	5240	1.33	1.10	4.23	0.21	4.44	13.53
802.11ac VHT40	38	5190	-1.64	-1.56	1.41	0.53	1.94	13.53
	46	5230	-1.63	-1.84	1.28	0.53	1.81	13.53
802.11ac VHT80	42	5210	-4.58	-4.63	-1.59	0.22	-1.37	13.53
802.11ax HE20	36	5180	0.65	1.00	3.84	0.26	4.10	13.53
	40	5200	0.85	0.89	3.88	0.26	4.14	13.53
	48	5240	1.46	1.30	4.39	0.26	4.65	13.53
802.11ax HE40	38	5190	-1.67	-1.53	1.41	0.25	1.66	13.53
	46	5230	-1.65	-1.81	1.28	0.25	1.53	13.53
802.11ax HE80	42	5210	-4.78	-4.81	-1.79	0.25	-1.54	13.53

Non BeamForming

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz/RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A	ANT B					
802.11a	149	5745	12.48	12.33	15.41	0.28	-3.01	12.68	26.73
	157	5785	12.60	12.54	15.58	0.28	-3.01	12.85	26.73
	165	5825	12.48	13.09	15.80	0.28	-3.01	13.07	26.73
802.11ac VHT20	149	5745	12.97	12.78	15.89	0.21	-3.01	13.09	26.73
	157	5785	12.97	12.91	15.95	0.21	-3.01	13.15	26.73
	165	5825	11.82	12.59	15.23	0.21	-3.01	12.43	26.73
802.11ac VHT40	151	5755	9.73	9.57	12.66	0.53	-3.01	10.18	26.73
	159	5795	9.70	9.79	12.75	0.53	-3.01	10.27	26.73
802.11ac VHT80	155	5775	6.31	6.31	9.32	0.22	-3.01	6.53	26.73
802.11ax HE20	149	5745	12.56	12.40	15.49	0.26	-3.01	12.74	26.73
	157	5785	12.56	12.44	15.51	0.26	-3.01	12.76	26.73
	165	5825	11.65	12.15	14.92	0.26	-3.01	12.17	26.73
802.11ax HE40	151	5755	9.31	9.08	12.21	0.25	-3.01	9.45	26.73
	159	5795	9.20	9.36	12.29	0.25	-3.01	9.53	26.73
802.11ax HE80	155	5775	7.11	6.96	10.04	0.25	-3.01	7.28	26.73

BeamForming

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
802.11ax HE20	36	5180	-2.71	-2.42	0.45	0.16	0.61	13.53
	40	5200	-2.52	-3.26	0.14	0.16	0.30	13.53
	48	5240	-1.92	-2.76	0.69	0.16	0.85	13.53
802.11ax HE40	38	5190	-5.64	-6.37	-2.98	0.16	-2.82	13.53
	46	5230	-3.93	-5.11	-1.47	0.16	-1.31	13.53
802.11ax HE80	42	5210	-7.90	-6.64	-4.21	0.15	-4.06	13.53

BeamForming
In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz/RBW) CF (dB)	Total Corr'd PSD (dBm/ 500kHz)	PSD Limit (dBm/ 500kHz)
			ANT A	ANT B					
802.11ax HE20	149	5745	7.00	6.87	9.94	0.16	-3.01	7.09	26.73
	157	5785	6.95	6.81	9.89	0.16	-3.01	7.04	26.73
	165	5825	7.02	7.53	10.29	0.16	-3.01	7.44	26.73
802.11ax HE40	151	5755	4.29	4.19	7.25	0.16	-3.01	4.40	26.73
	159	5795	4.48	4.52	7.51	0.16	-3.01	4.66	26.73
802.11ax HE80	155	5775	1.40	1.27	4.35	0.15	-3.01	1.49	26.73

Non BeamForming
ANT A
Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36

CH40

CH40

CH48

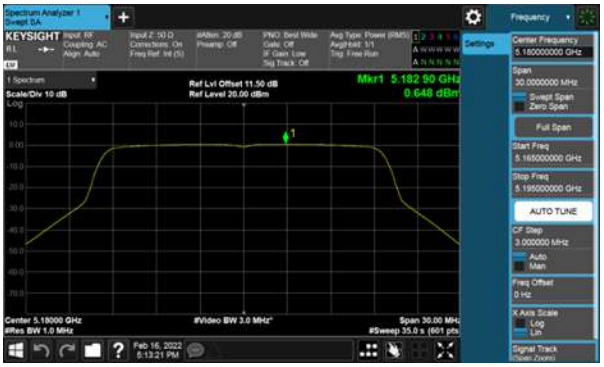
CH48

Non BeamForming
ANT A
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

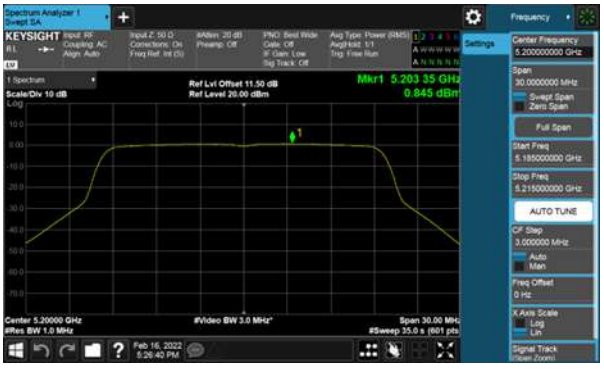
CH46

Non BeamForming
ANT A
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36



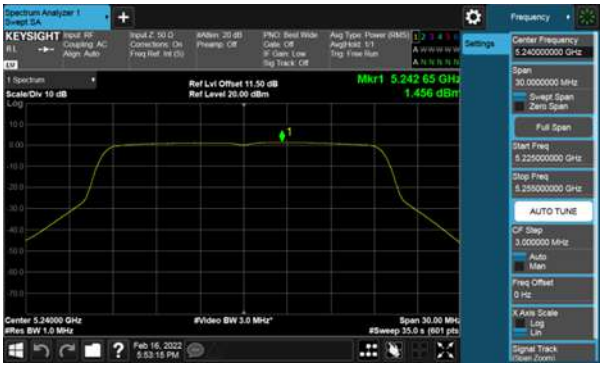
Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

CH40

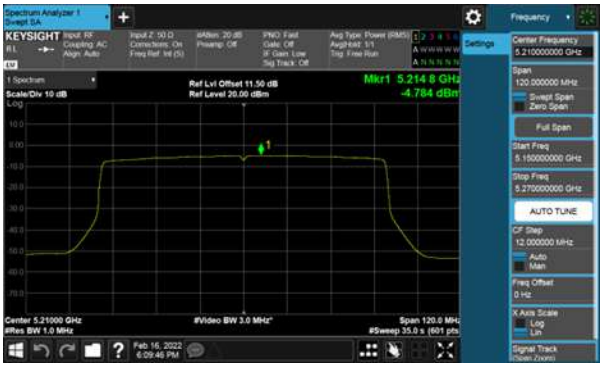


CH46

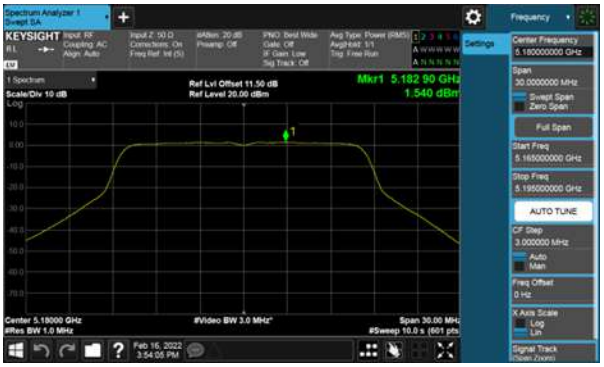
CH48



Non BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42



Non BeamForming
ANT B
Modulation Type: 802.11a (6Mbps)
CH36



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36

CH40

CH40

CH48

CH48

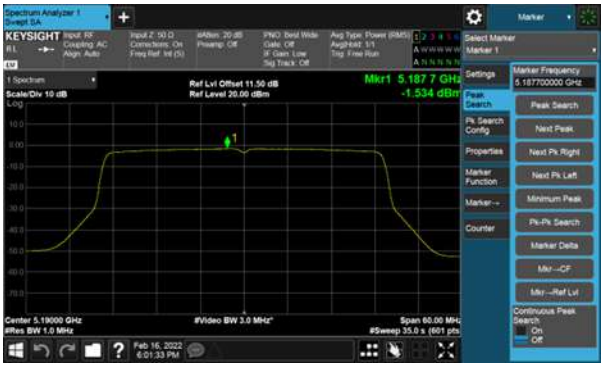
Non BeamForming
ANT B
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

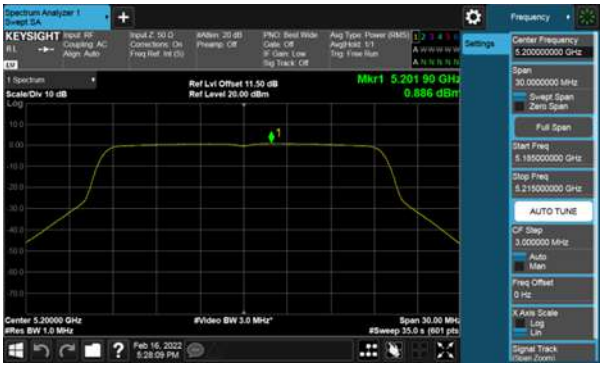
CH46

Non BeamForming
ANT B
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

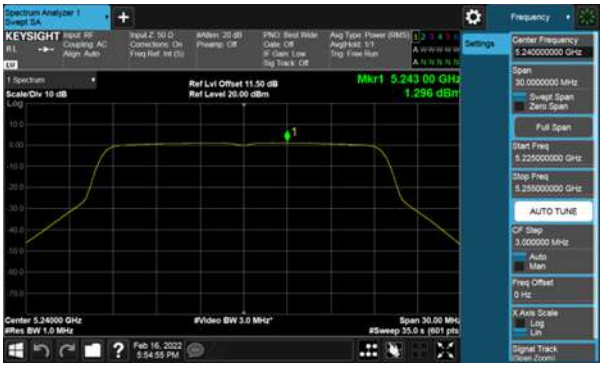


CH40

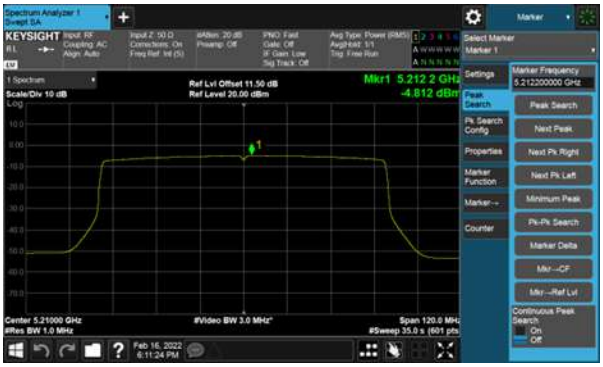


CH46

CH48



Non BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42



Non BeamForming

ANT A

Modulation Type: 802.11a (6Mbps)

CH149

CH157

CH165

Modulation Type: 802.11ac, VHT20 (6.5Mbps)

CH149

CH157

CH165

Non BeamForming
ANT A
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151

Modulation Type: 802.11ac, VHT80 (29.3Mbps)
CH155

CH159

Non BeamForming

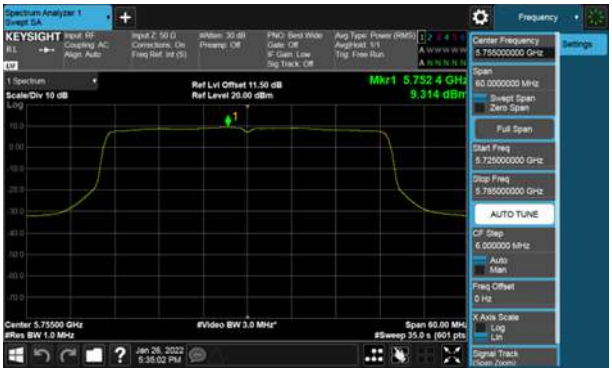
ANT A

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH149

Modulation Type: 802.11ax HE40 (14.6Mbps)

CH151



CH157

CH159

CH165

Non BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH155

Non BeamForming

ANT B

Modulation Type: 802.11a (6Mbps)

CH149

Modulation Type: 802.11ac, VHT20 (6.5Mbps)

CH149

CH157

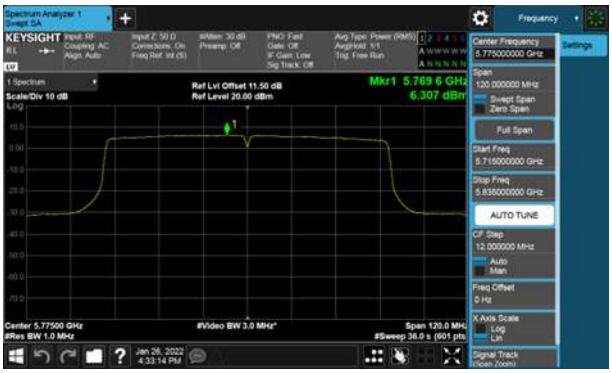
CH157

CH165

CH165

Non BeamForming
ANT B
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151

Modulation Type: 802.11ac, VHT80 (29.3Mbps)
CH155



CH159

Non BeamForming

ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH149

Modulation Type: 802.11ax HE40 (14.6Mbps)

CH151

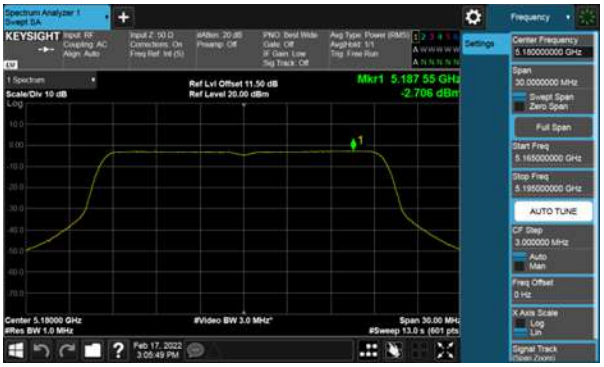
CH157

CH159

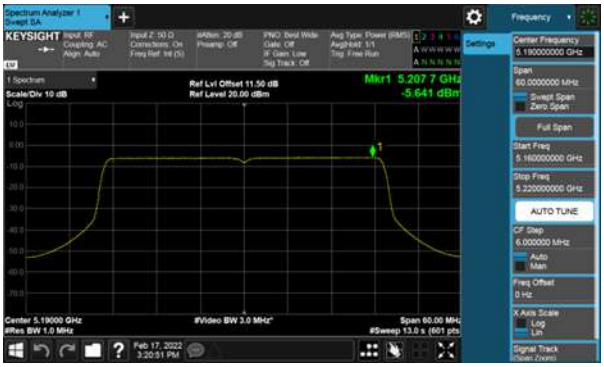
CH165

Non BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH155

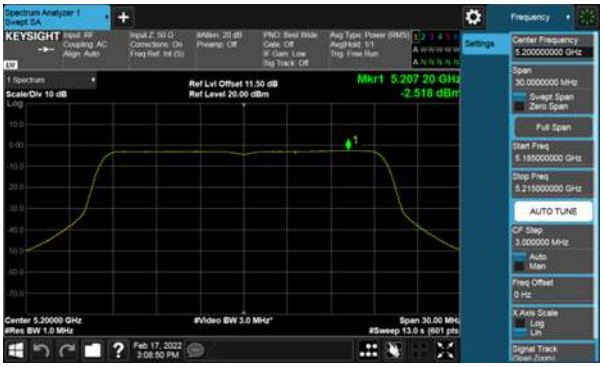
BeamForming
ANT A
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36



Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

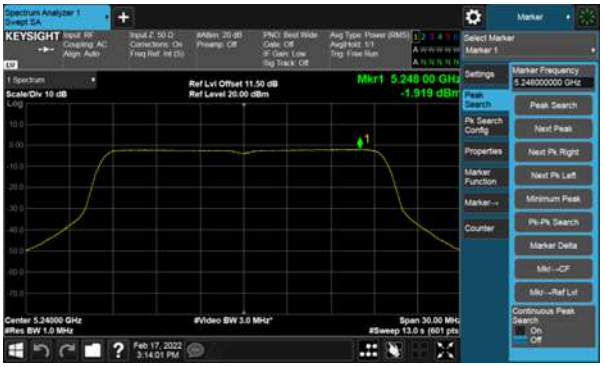


CH40

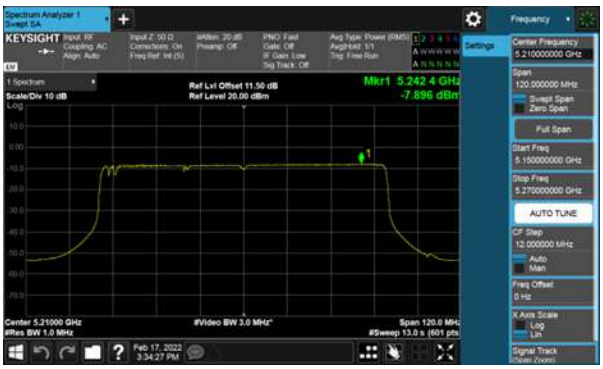


CH46

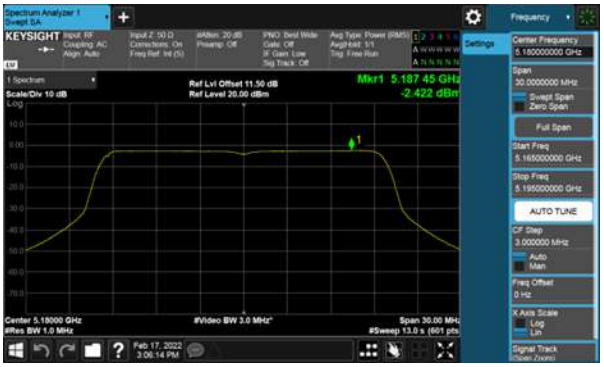
CH48



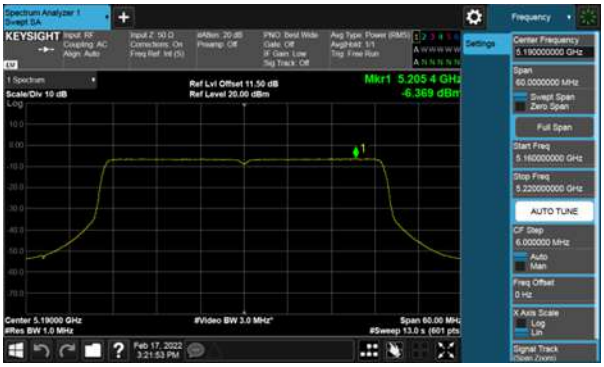
BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42



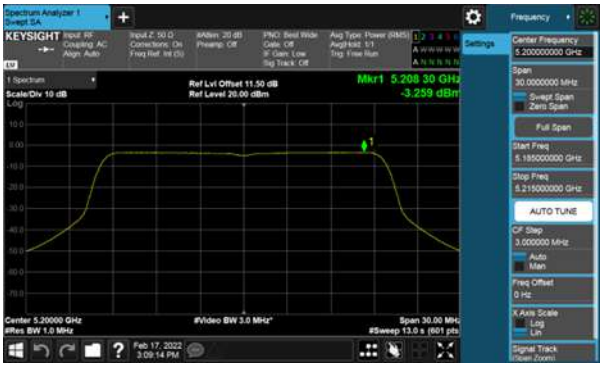
BeamForming
ANT B
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH36



Modulation Type: 802.11ax HE40 (14.6Mbps)
CH38

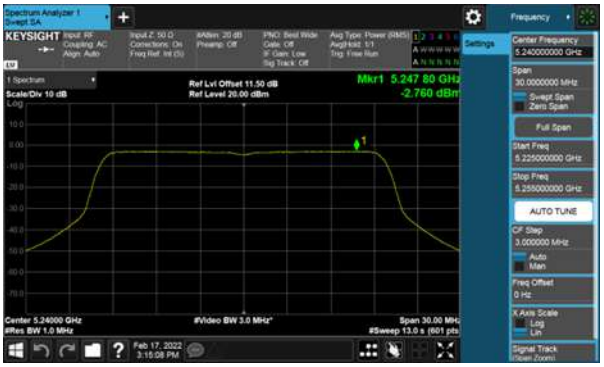


CH40



CH46

CH48



BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH42

BeamForming

ANT A

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH149

Modulation Type: 802.11ax HE40 (14.6Mbps)

CH151

CH157

CH159

CH165

BeamForming
ANT A
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH155

BeamForming

ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH149

Modulation Type: 802.11ax HE40 (14.6Mbps)

CH151

CH157

CH159

CH165

BeamForming
ANT B
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH155