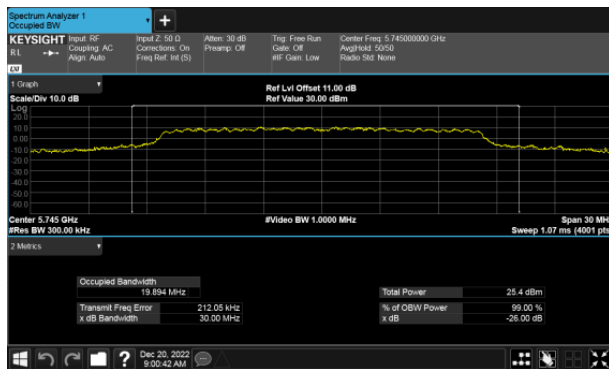
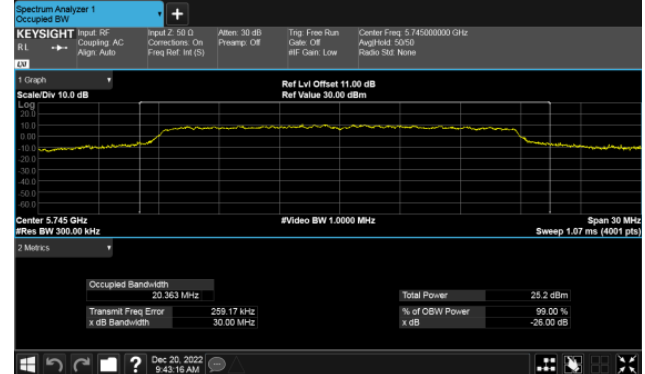




99% Occupied Bandwidth ANT B
Modulation Type: 802.11a (6Mbps)
CH149



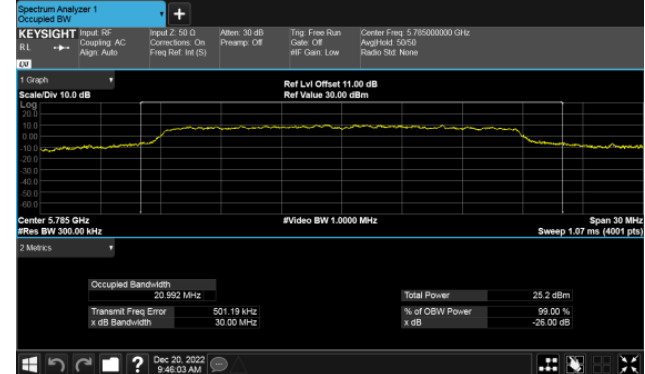
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



CH157



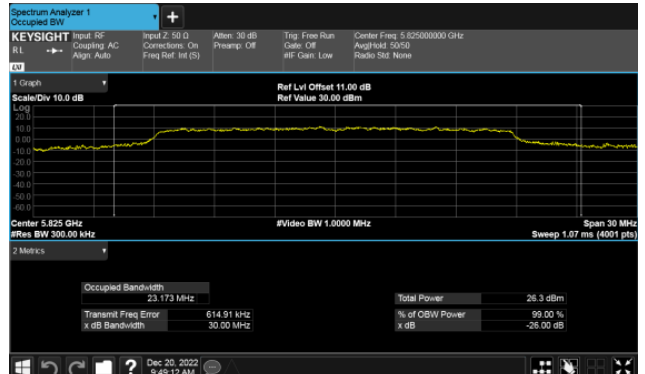
CH157



CH165

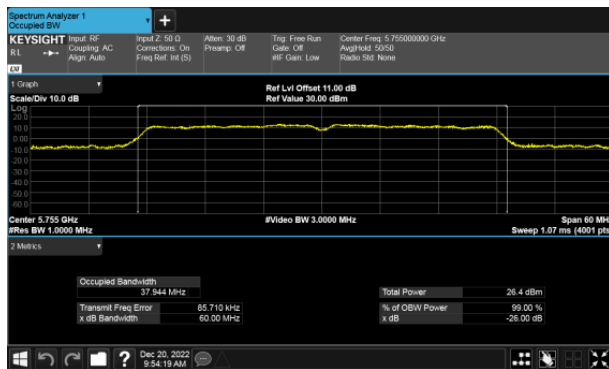


CH165

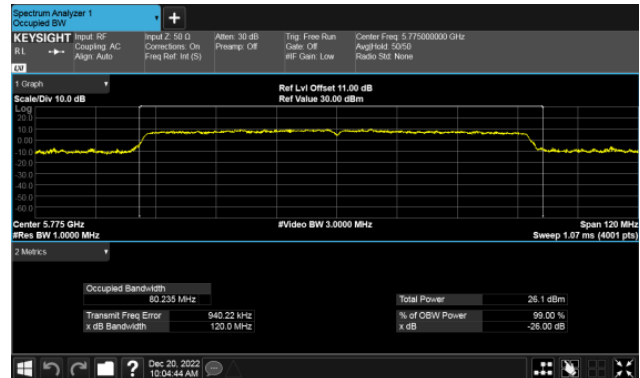




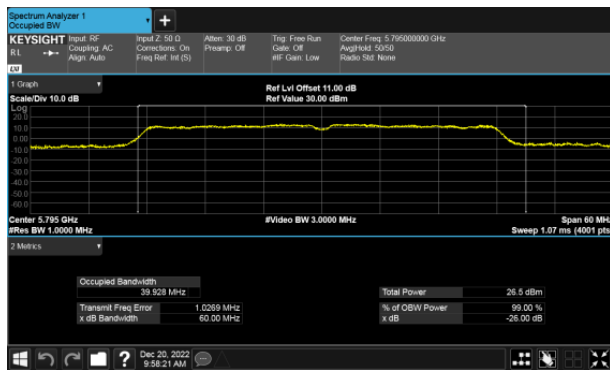
99% Occupied Bandwidth ANT B
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



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



CH159

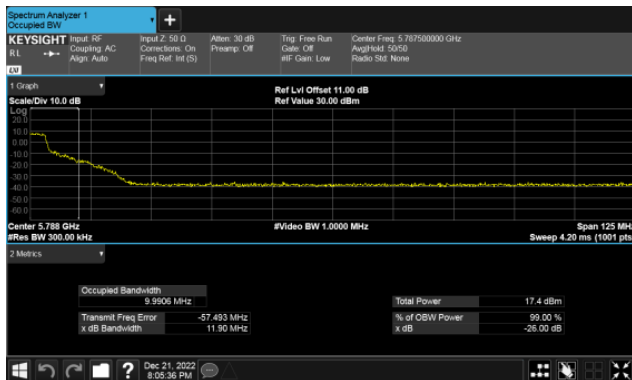




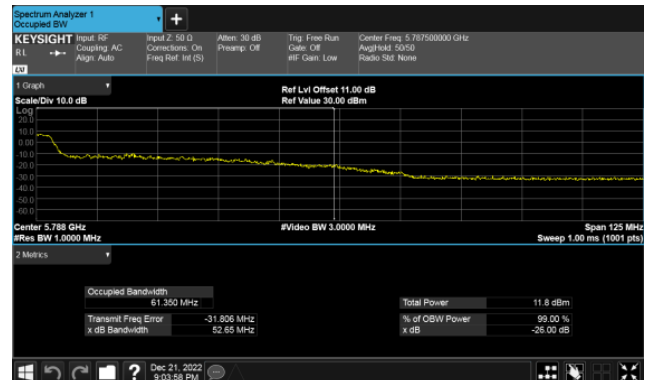
99% Bandwidth ANT A

Extends across 5725MHz Band, Straddle Channel

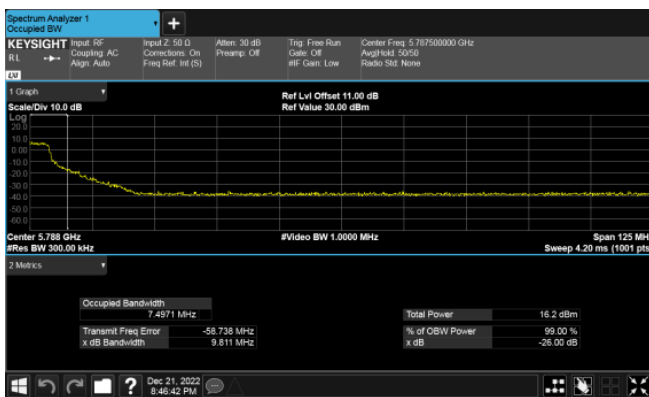
Modulation Type: 802.11a (6Mbps)
CH144



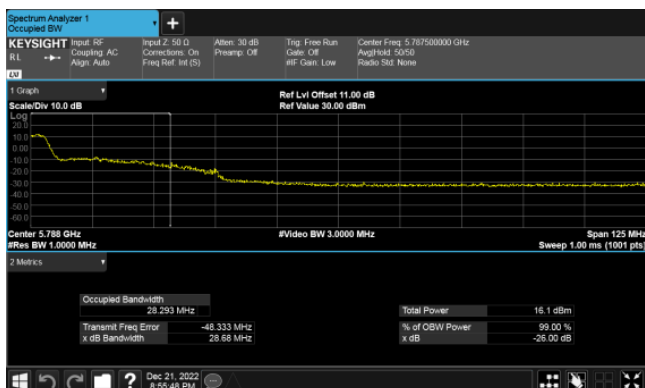
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144



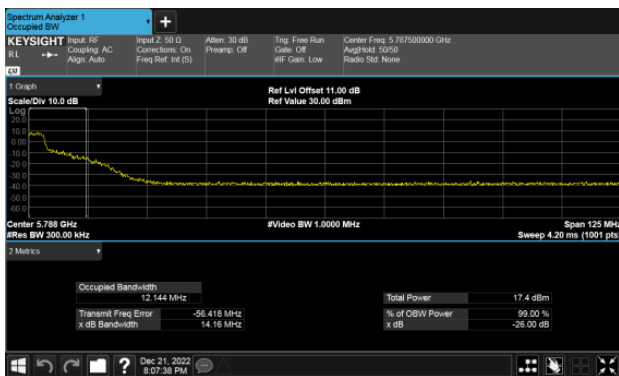
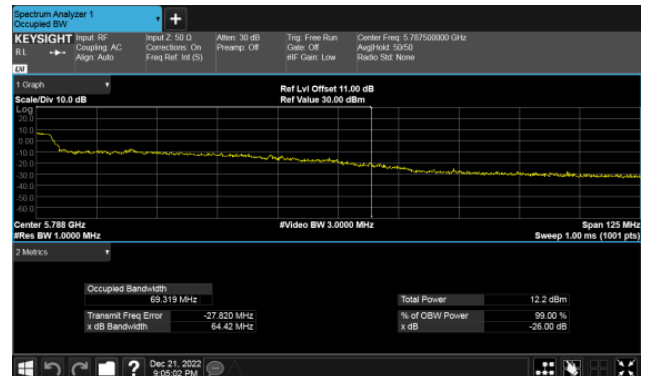
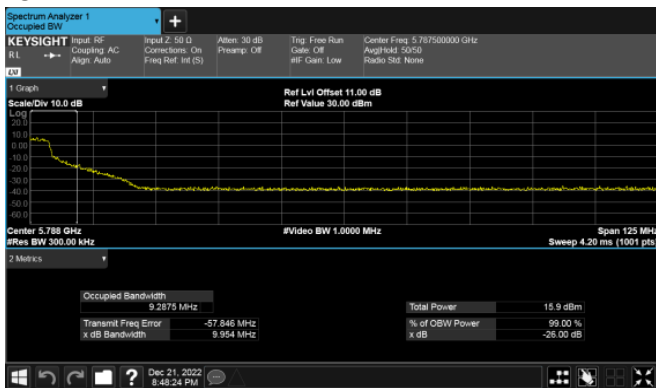
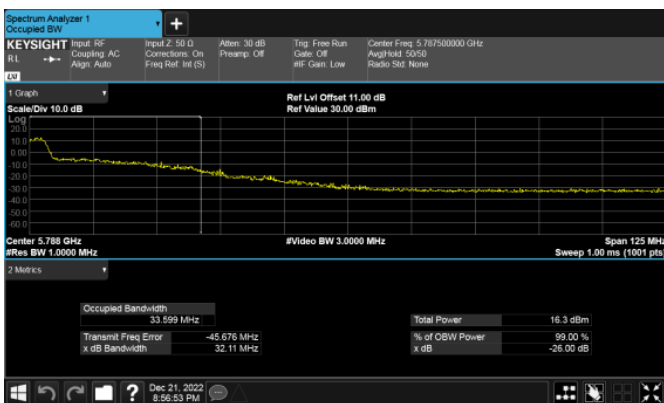
Modulation Type: 802.11 ac VHT40 (29.3Mbps)
CH142





99% Bandwidth ANT B

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144Modulation Type: 802.11 ac VHT40 (29.3Mbps)
CH142



9. 26dB Bandwidth & 99% Occupied Bandwidth

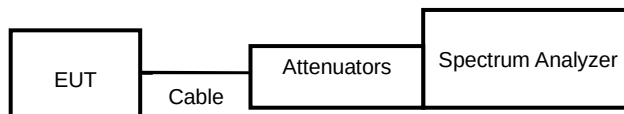
9.1. Test Limit

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 $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout





9.4. Test Result and Data

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	36	5180	27.13	30.00
11a	40	5200	27.16	30.00
11a	48	5240	26.22	29.76
11ac VHT20	36	5180	28.11	30.00
11ac VHT20	40	5200	28.46	30.00
11ac VHT20	48	5240	28.16	29.23
11ac VHT40	38	5190	41.63	41.91
11ac VHT40	46	5230	59.71	60.00
11ac VHT80	42	5210	84.33	112.00

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	52	5260	30.00	30.00
11a	60	5300	29.97	30.00
11a	64	5320	29.92	30.00
11ac VHT20	52	5260	30.00	30.00
11ac VHT20	60	5300	29.23	30.00
11ac VHT20	64	5320	29.25	30.00
11ac VHT40	54	5270	59.96	60.00
11ac VHT40	62	5310	41.88	41.77
11ac VHT80	58	5290	84.25	83.82



In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	100	5500	26.31	30.00
11a	120	5600	28.49	30.00
11a	140	5700	28.41	30.00
11ac VHT20	100	5500	28.78	30.00
11ac VHT20	120	5600	29.07	30.00
11ac VHT20	140	5700	28.49	30.00
11ac VHT40	102	5510	41.97	41.65
11ac VHT40	118	5590	60.00	60.00
11ac VHT40	134	5670	49.80	60.00
11ac VHT80	106	5530	84.10	83.51
11ac VHT80	122	5610	120.00	120.00

UNII Emission Bandwidth Result (Within 5470-5725MHz band)				
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	6 Mbps	5720	19.91	21.97
11ac VHT20	NSS1-MCS0	5720	17.84	19.18
11ac VHT40	NSS1-MCS0	5710	48.80	57.91
11ac VHT80	NSS1-MCS0	5690	115.10	129.90



In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	36	5180	17.05	17.98
11a	40	5200	17.06	18.38
11a	48	5240	17.00	17.42
11ac VHT20	36	5180	18.17	19.34
11ac VHT20	40	5200	18.16	19.68
11ac VHT20	48	5240	18.09	18.59
11ac VHT40	38	5190	36.43	36.46
11ac VHT40	46	5230	36.76	37.72
11ac VHT80	42	5210	75.58	75.76

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	52	5260	18.39	20.25
11a	60	5300	17.98	20.94
11a	64	5320	17.67	20.87
11ac VHT20	52	5260	18.90	20.21
11ac VHT20	60	5300	18.64	21.11
11ac VHT20	64	5320	18.45	21.09
11ac VHT40	54	5270	36.90	37.55
11ac VHT40	62	5310	36.43	36.46
11ac VHT80	58	5290	75.60	75.63



In the 5.5G Band

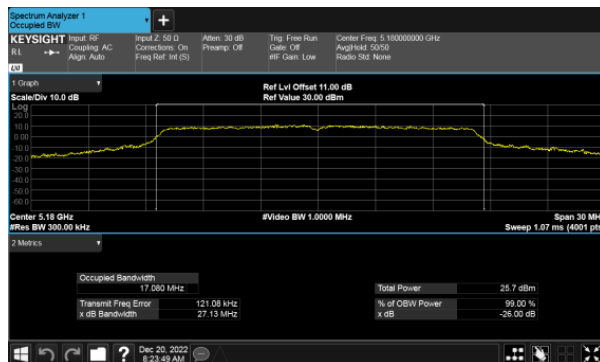
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	100	5500	16.97	17.76
11a	120	5600	17.00	17.67
11a	140	5700	17.09	18.52
11ac VHT20	100	5500	18.20	19.82
11ac VHT20	120	5600	18.23	19.49
11ac VHT20	140	5700	17.99	18.24
11ac VHT40	102	5510	36.47	36.42
11ac VHT40	118	5590	36.83	38.52
11ac VHT40	134	5670	36.56	36.98
11ac VHT80	106	5530	75.54	75.64
11ac VHT80	122	5610	76.41	79.23

UNII Emission Bandwidth Result (Within 5470-5725MHz band)

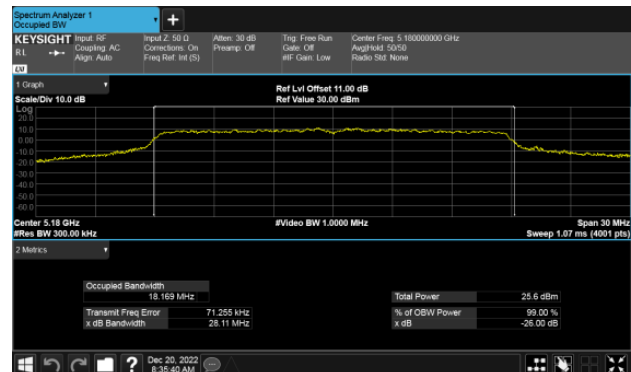
Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	6 Mbps	5720	13.91	15.71
11ac VHT20	NSS1-MCS0	5720	14.05	14.38
11ac VHT40	NSS1-MCS0	5710	33.57	40.60
11ac VHT80	NSS1-MCS0	5690	72.94	95.91



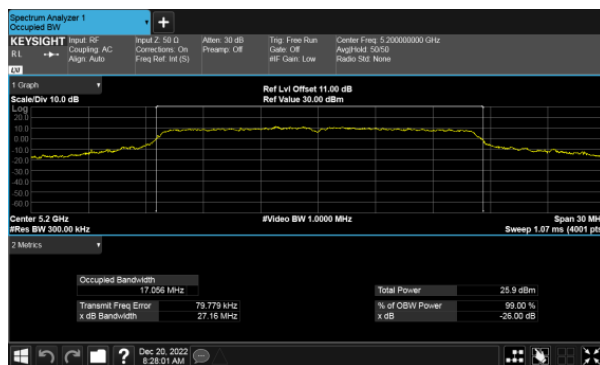
ANT A
26dB Bandwidth Band 1
Modulation Type: 802.11a (6Mbps)
CH36



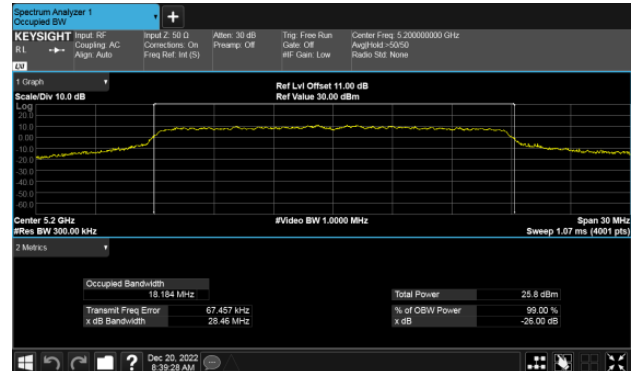
802.11ac VHT20 (6.5Mbps)
CH36



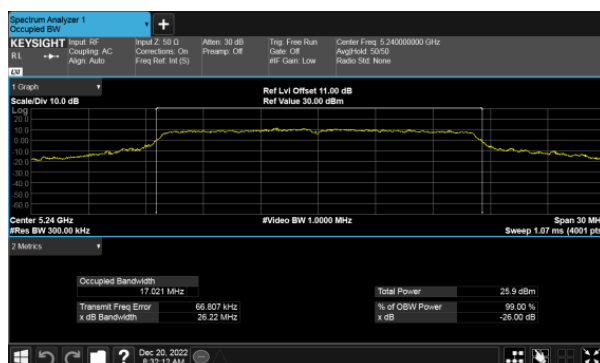
CH40



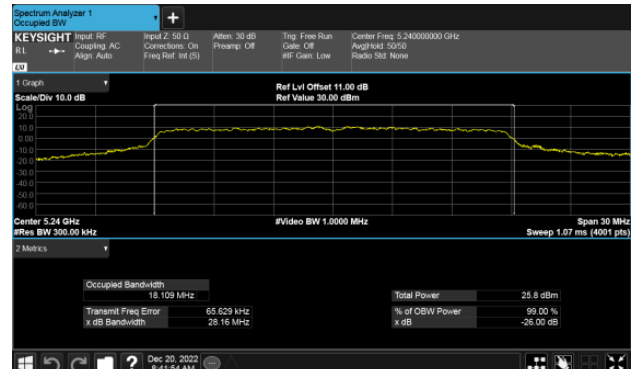
CH40



CH48



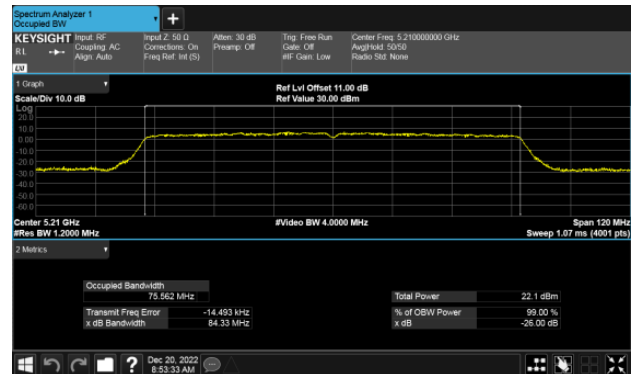
CH48



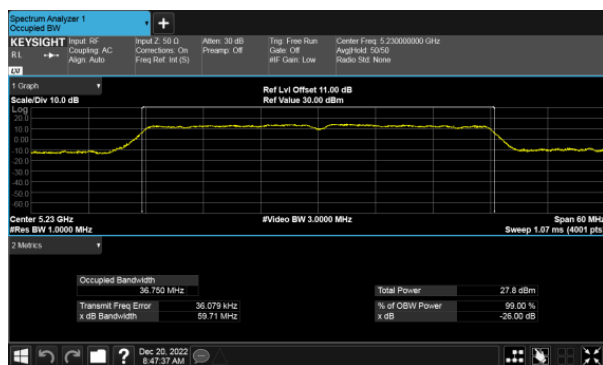


ANT A

26dB Bandwidth Band 1

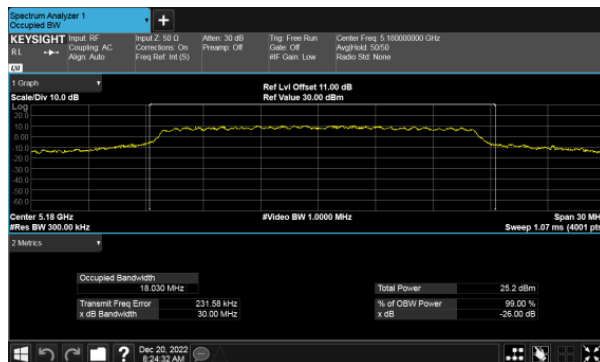
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

CH46

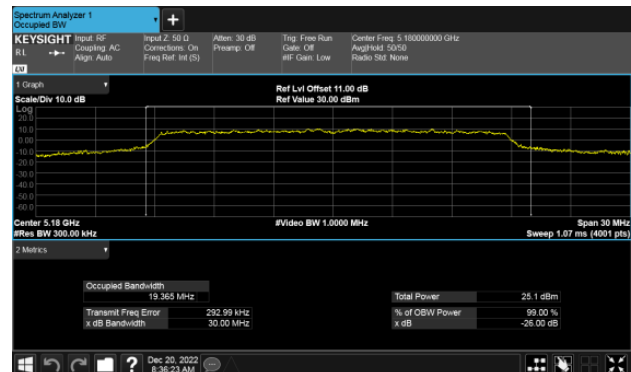




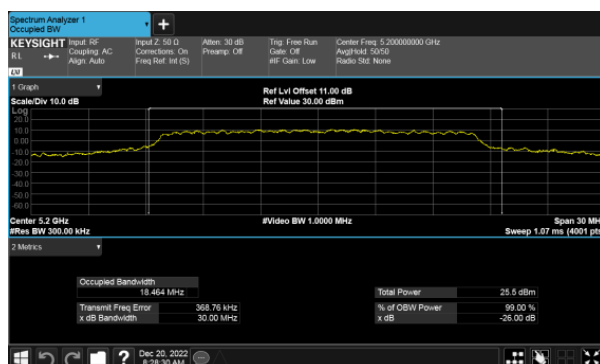
ANT B
26dB Bandwidth Band 1
Modulation Type: 802.11a (6Mbps)
CH36



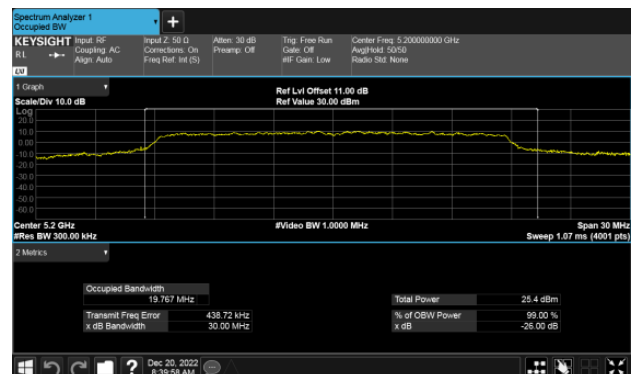
802.11ac VHT20 (6.5Mbps)
CH36



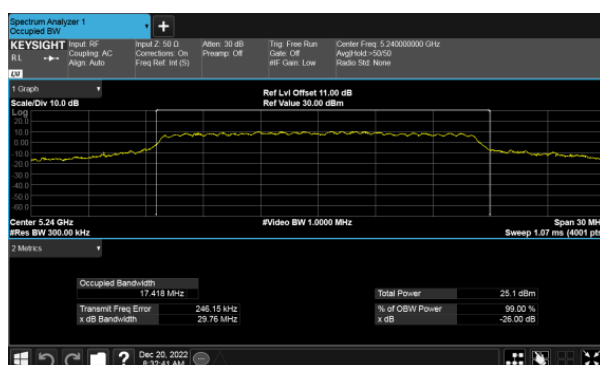
CH40



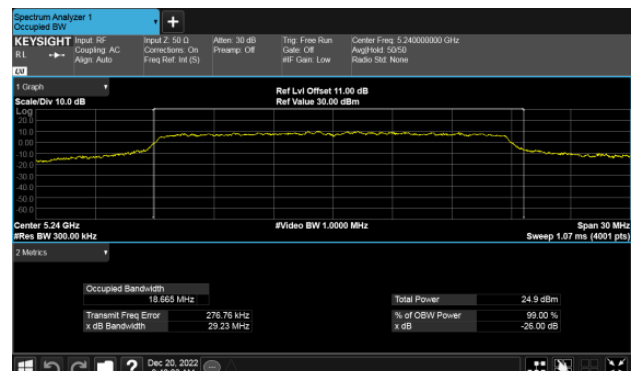
CH40



CH48



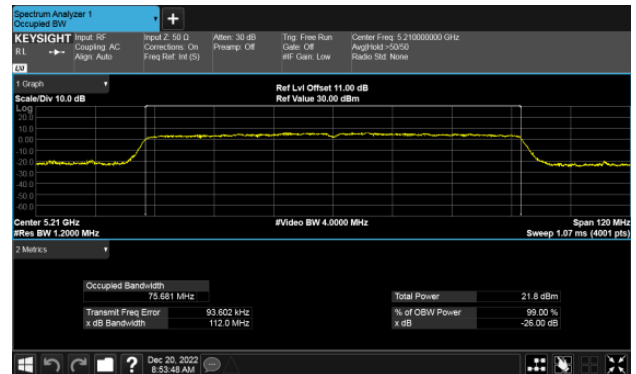
CH48



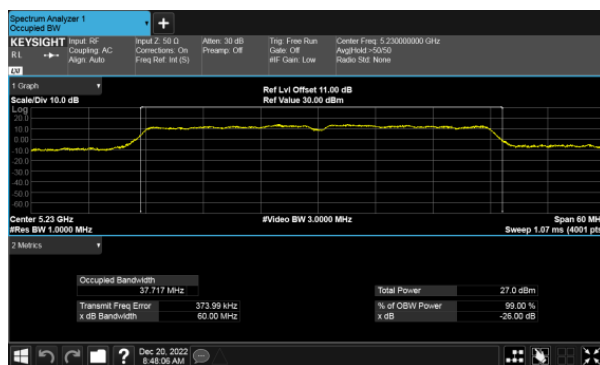


ANT B

26dB Bandwidth Band 1

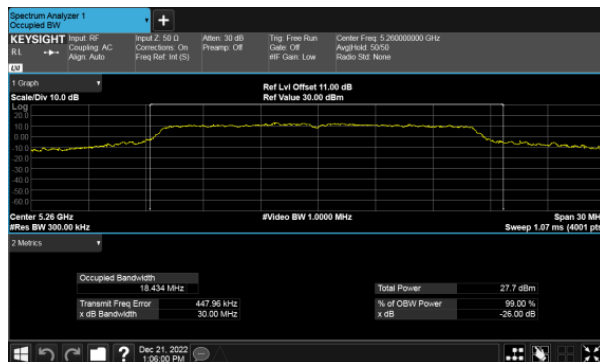
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

CH46

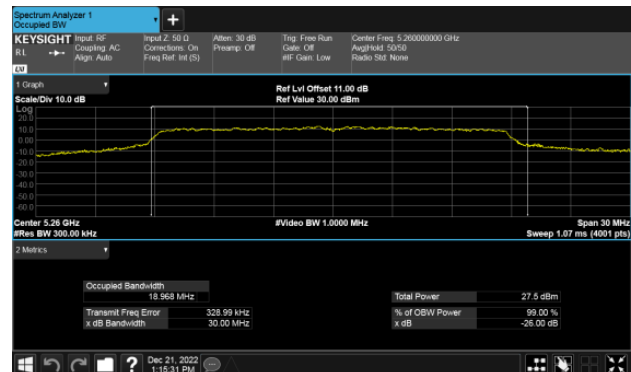




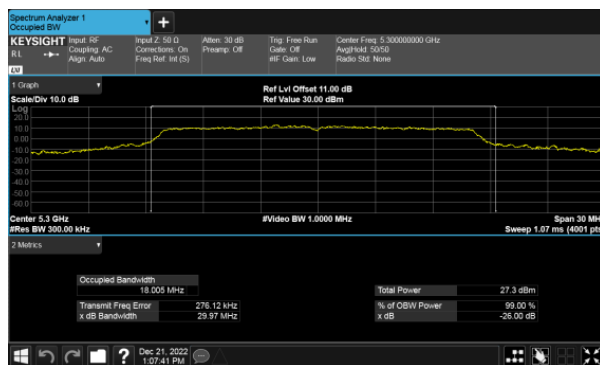
ANT A
26dB Bandwidth Band 2
Modulation Type: 802.11a (6Mbps)
CH52



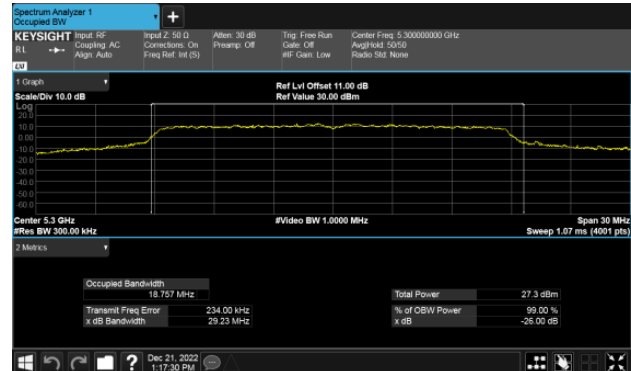
802.11ac VHT20 (6.5Mbps)
CH52



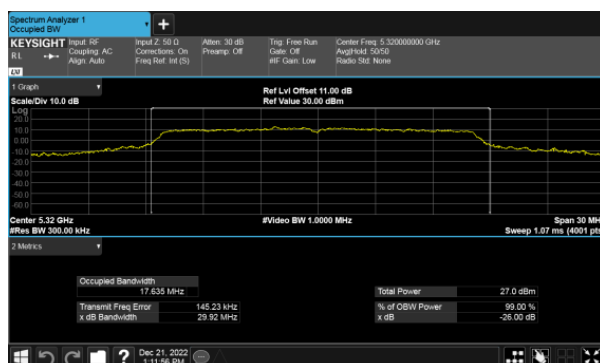
CH60



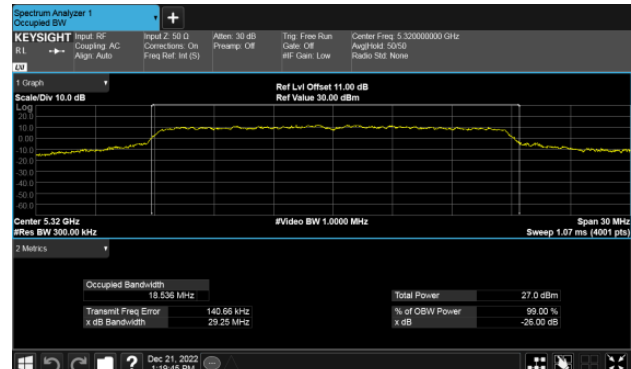
CH60



CH64



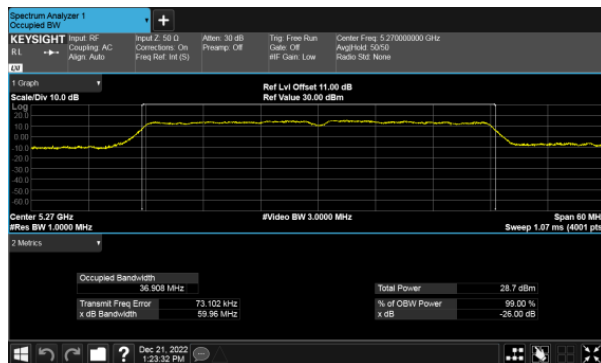
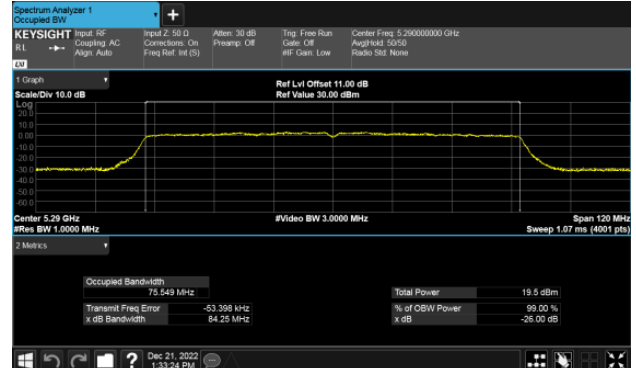
CH64



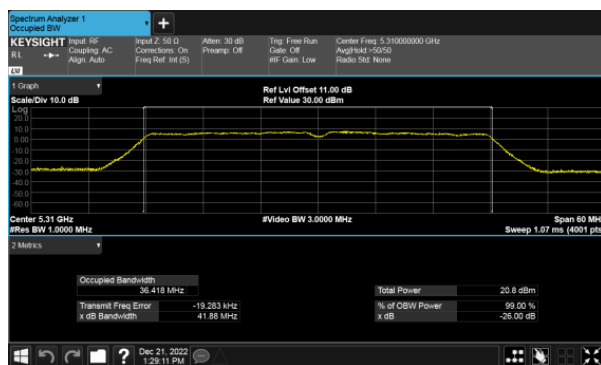


ANT A

26dB Bandwidth Band 2

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH54Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH58

CH62

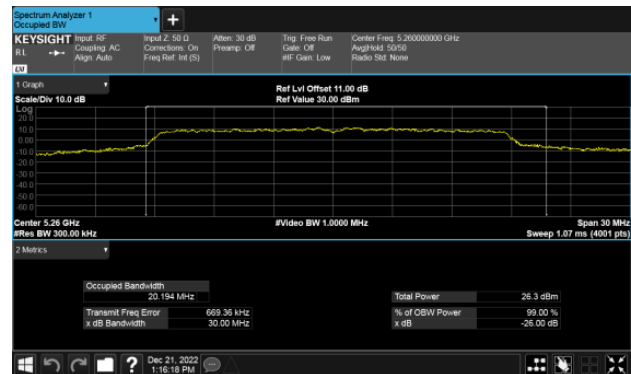




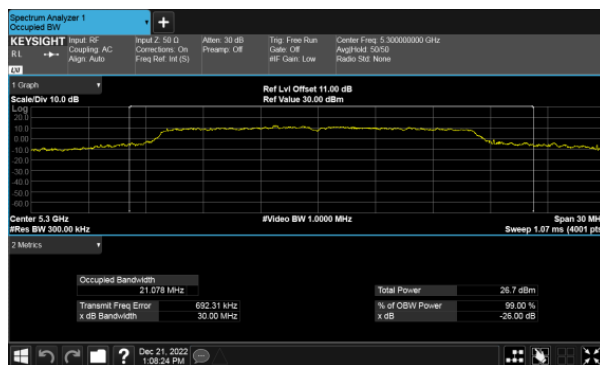
ANT B
26dB Bandwidth Band 2
Modulation Type: 802.11a (6Mbps)
CH52



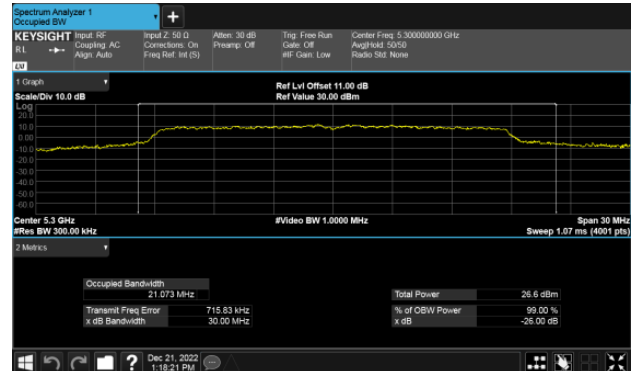
802.11ac VHT20 (6.5Mbps)
CH52



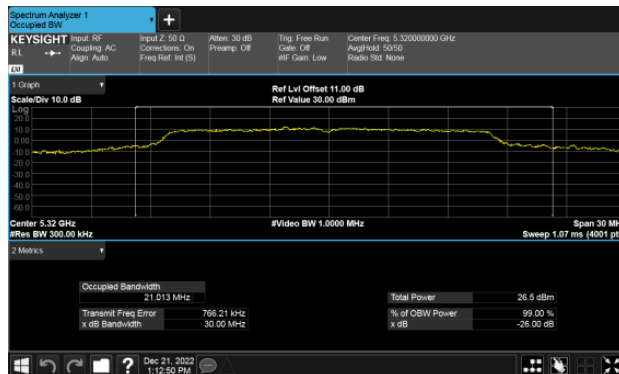
CH60



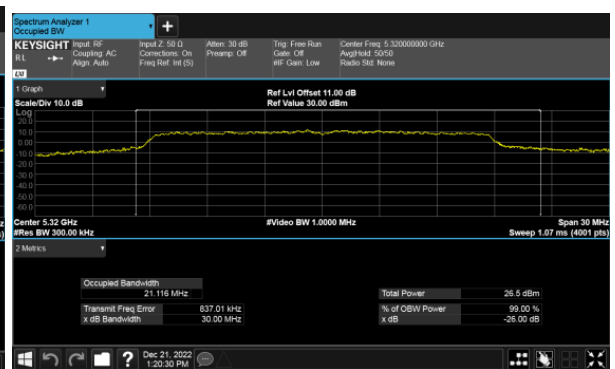
CH60



CH64



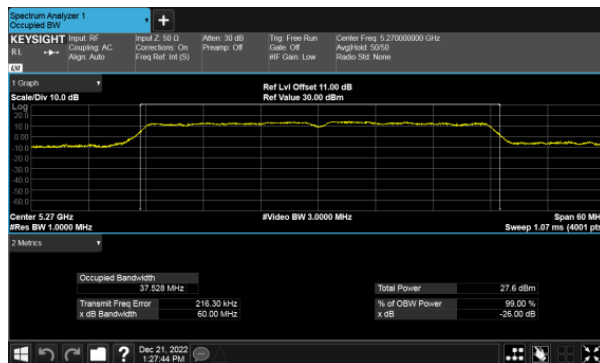
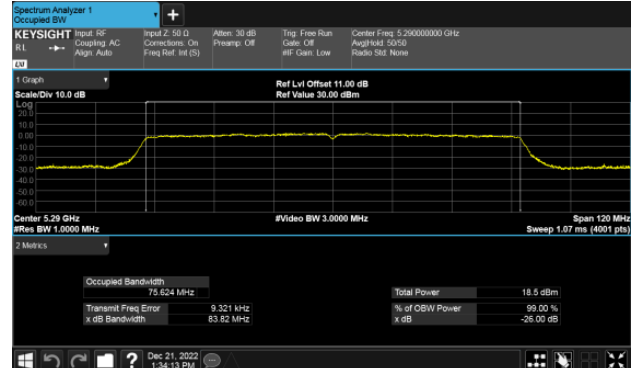
CH64



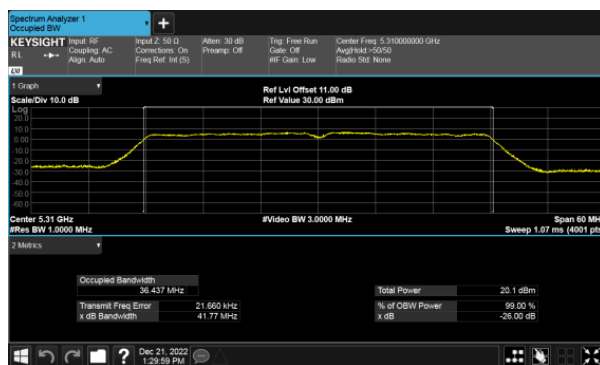


ANT B

26dB Bandwidth Band 2

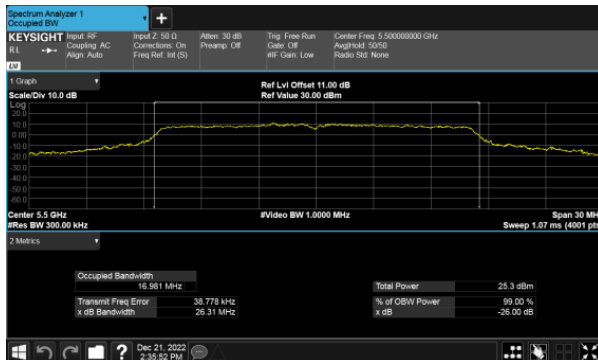
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH54Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH58

CH62

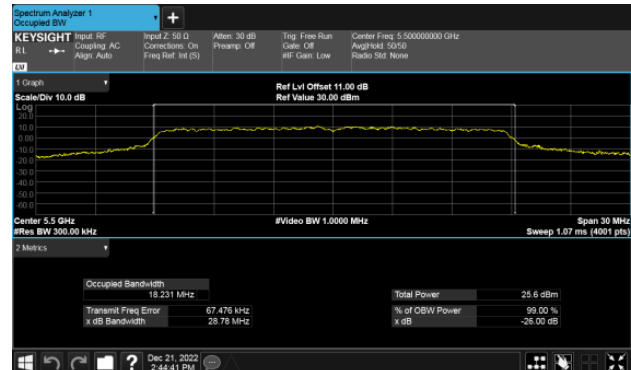




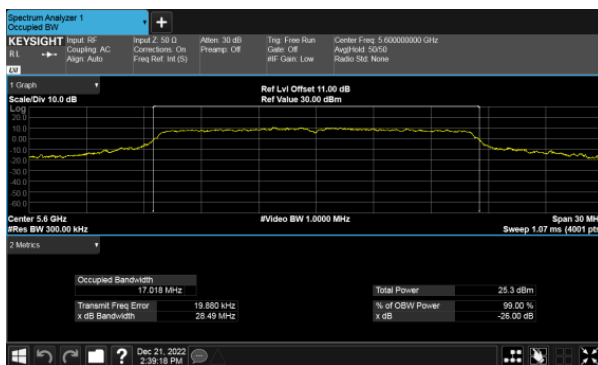
ANT A
26dB Bandwidth Band 3
Modulation Type: 802.11a (6Mbps)
CH100



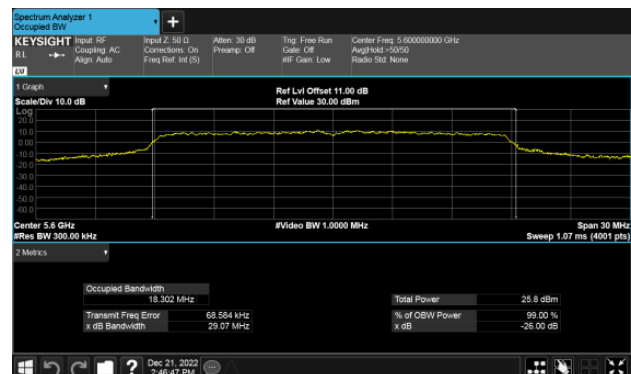
802.11ac VHT20 (6.5Mbps)
CH100



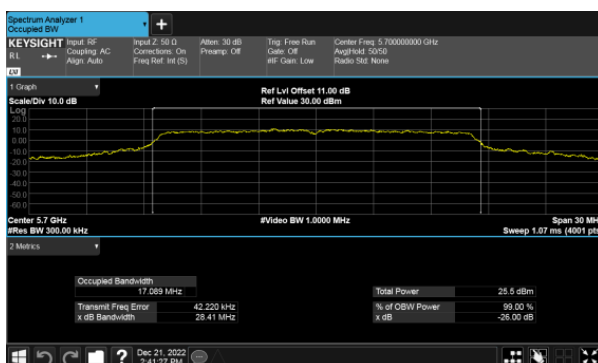
CH120



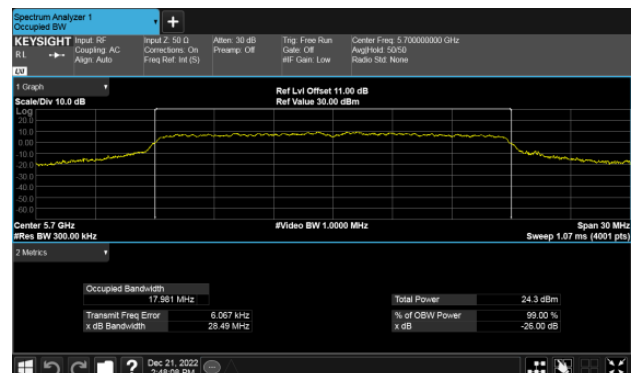
CH120



CH140



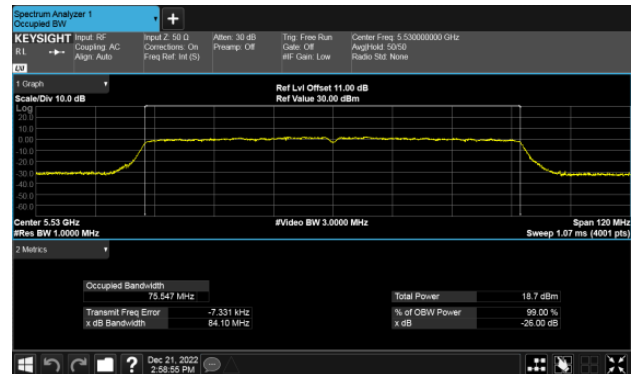
CH140



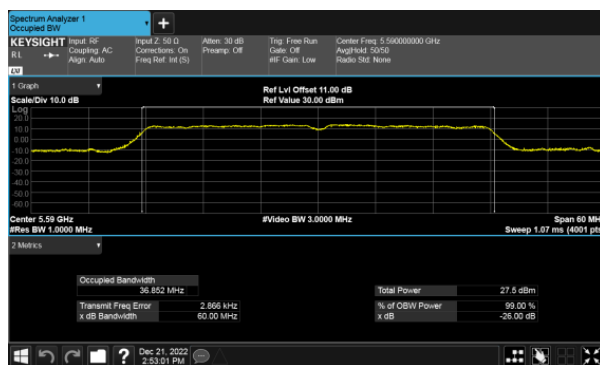


ANT A

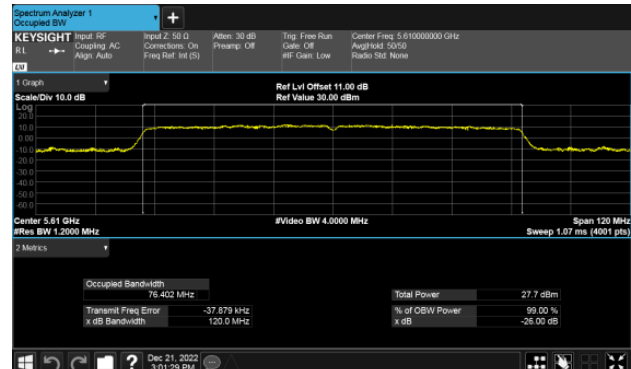
26dB Bandwidth Band 3

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH102Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH106

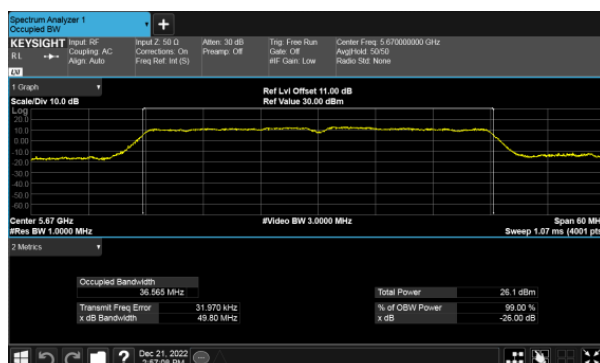
CH118



CH122

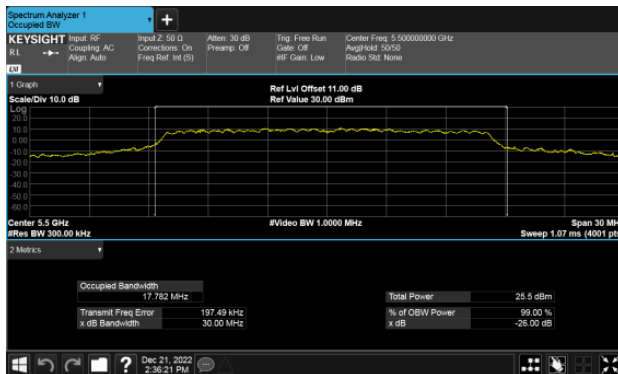


CH134

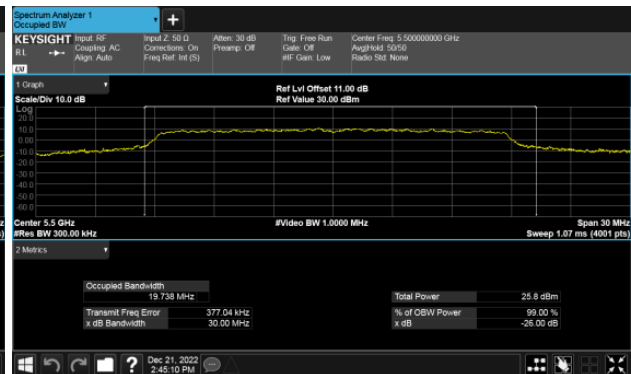




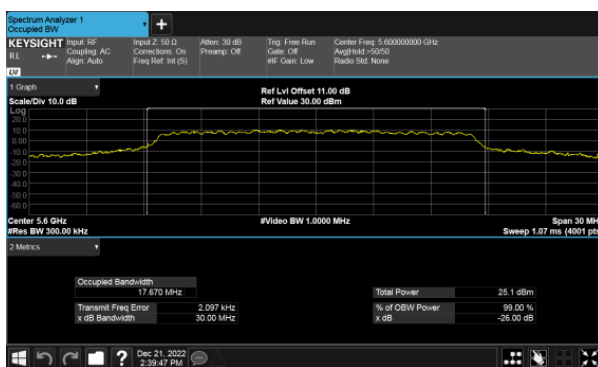
ANT B
26dB Bandwidth Band 3
Modulation Type: 802.11a (6Mbps)
CH100



802.11ac VHT20 (6.5Mbps)
CH100



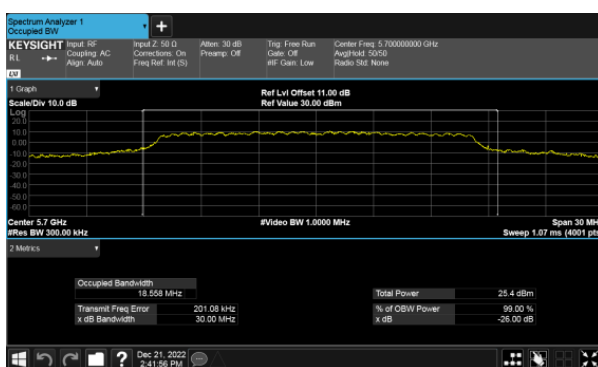
CH120



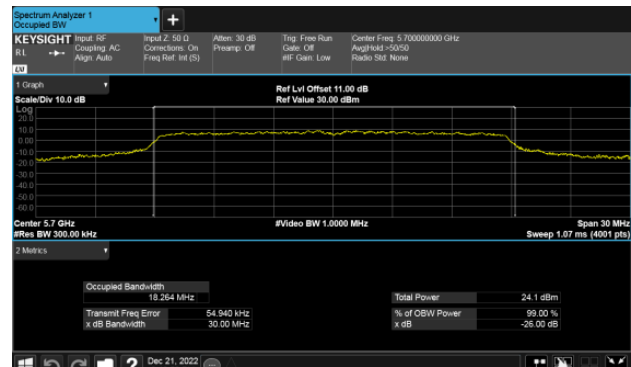
CH120



CH140



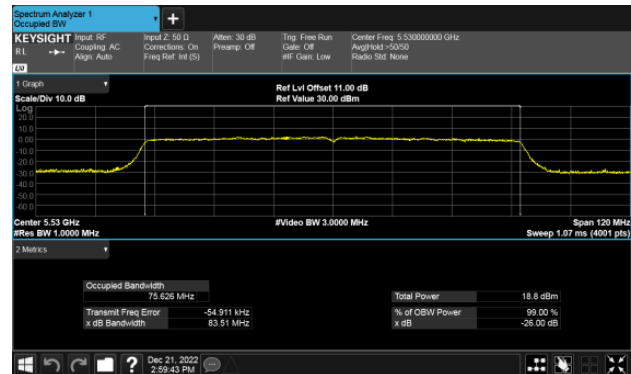
CH140



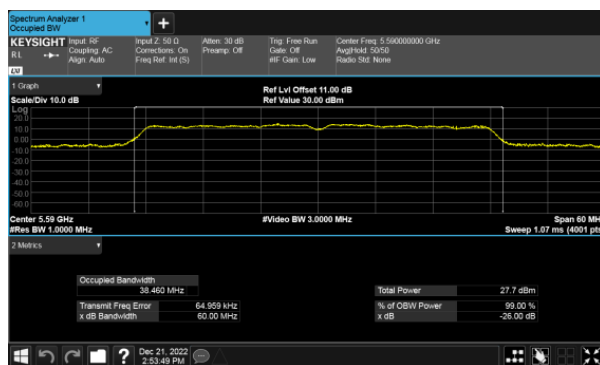


ANT B

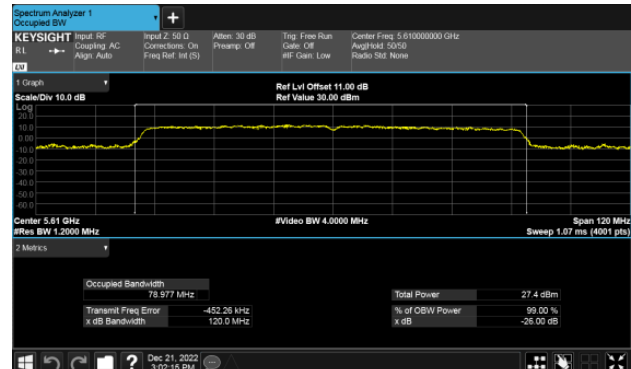
26dB Bandwidth Band 3

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH102Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH106

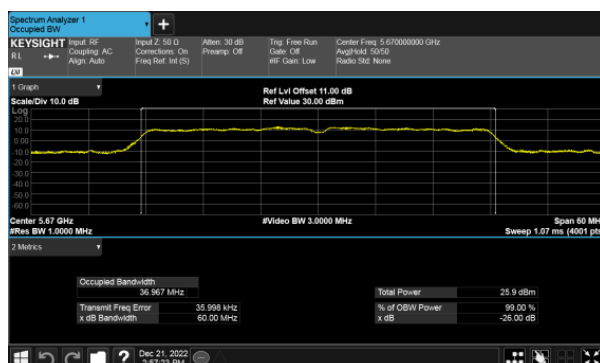
CH118



CH122



CH134

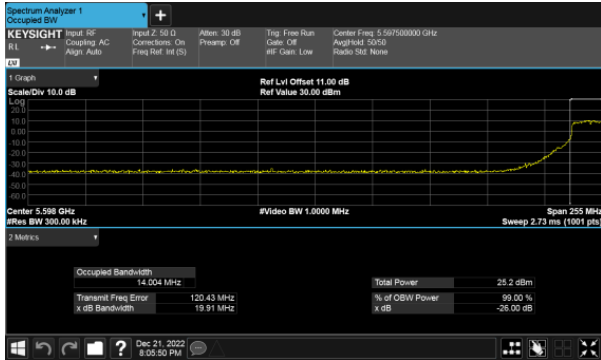




26dB Bandwidth ANT A

Within 5470-5725MHz Band, Straddle Channel

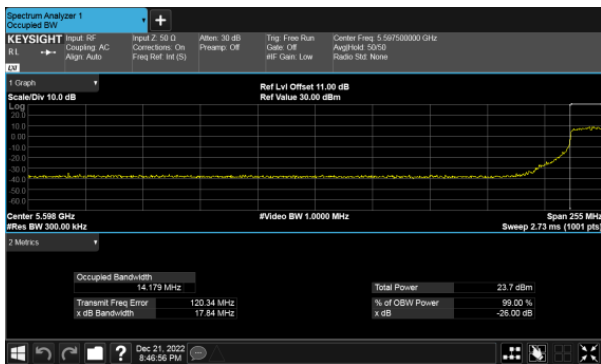
Modulation Type: 802.11a (6Mbps)
CH144



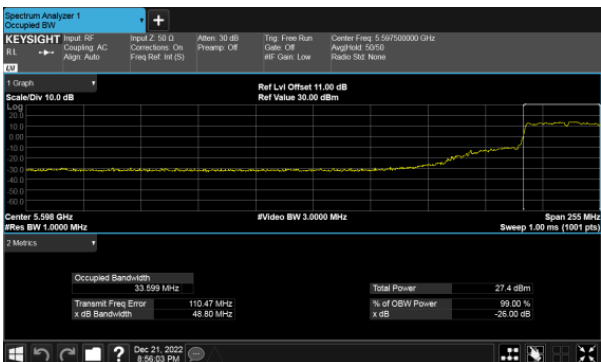
802.11ac VHT80 (29.3Mbps)
CH138



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142

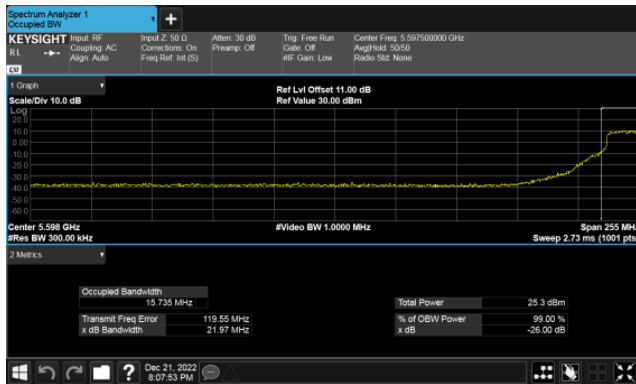




26dB Bandwidth ANT B

Within 5470-5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



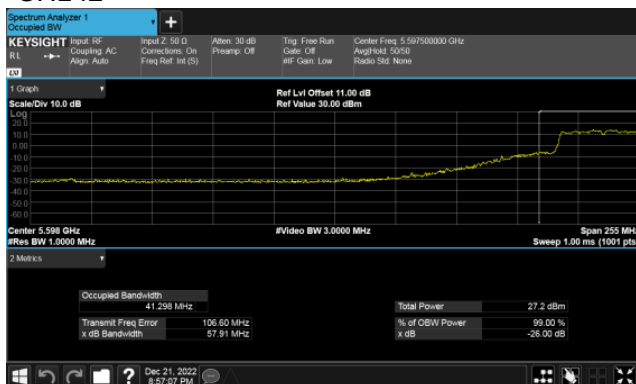
802.11ac VHT80 (29.3Mbps)
CH138



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144

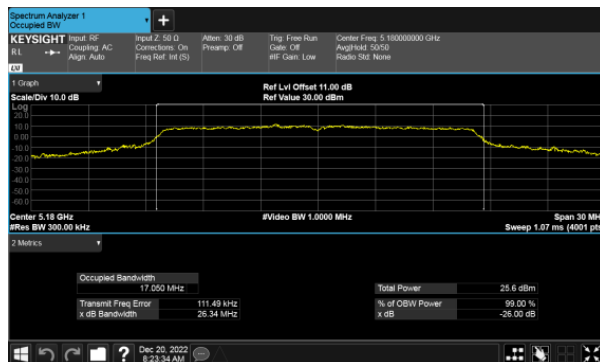


Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142

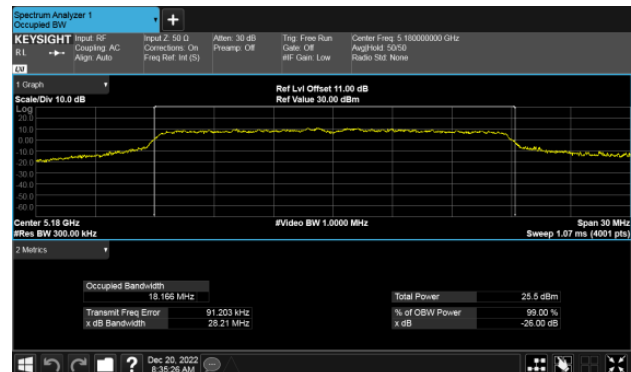




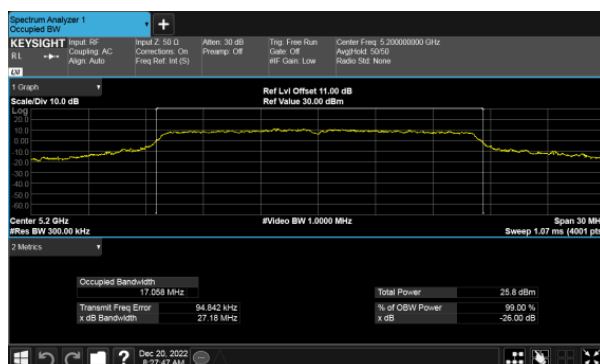
ANT A
99% Bandwidth Band 1
Modulation Type: 802.11a (6Mbps)
CH36



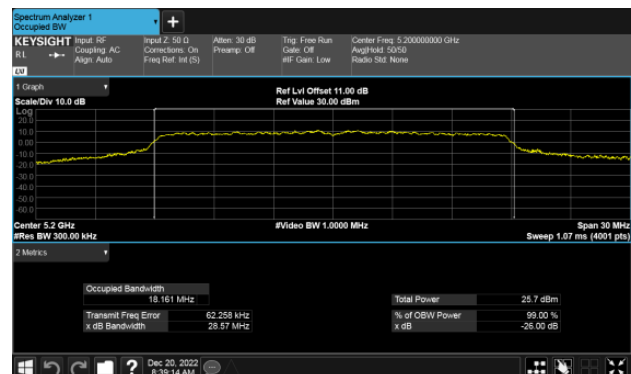
802.11ac VHT20 (6.5Mbps)
CH36



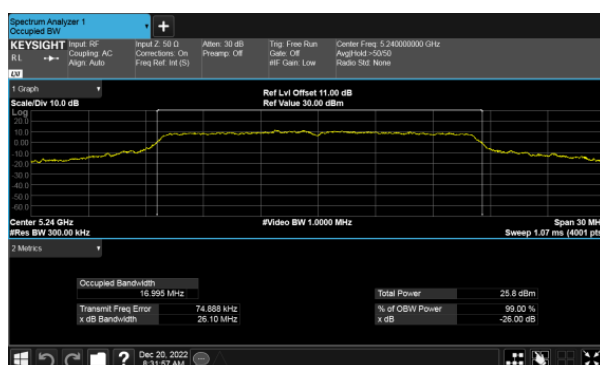
CH40



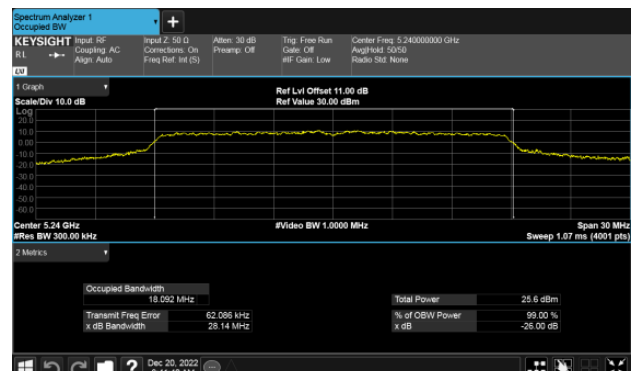
CH40



CH48



CH48

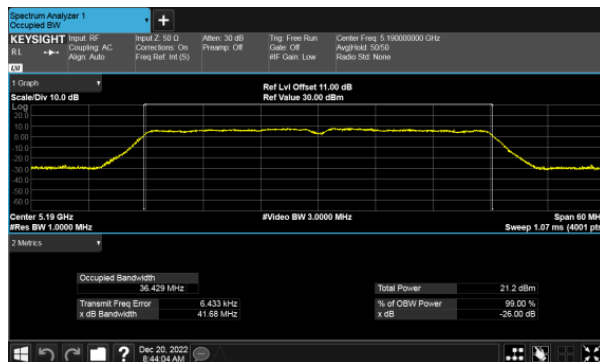




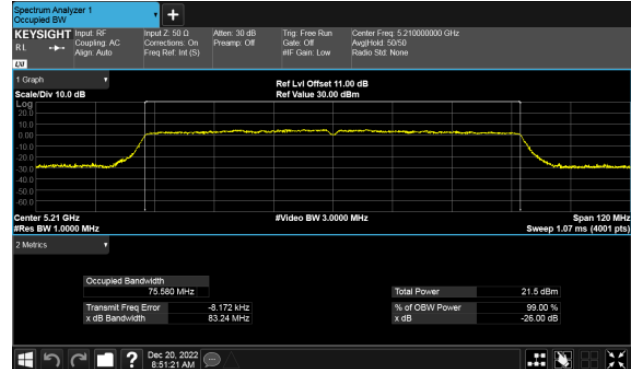
ANT A

99% Bandwidth Band 1

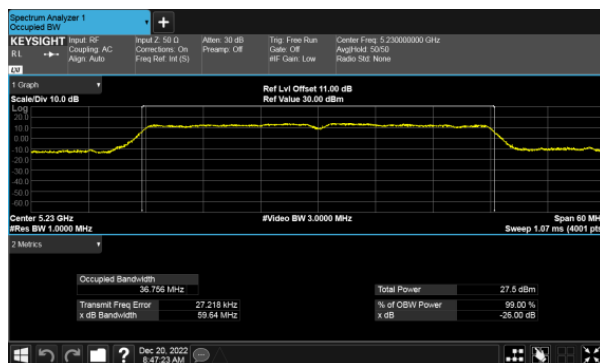
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

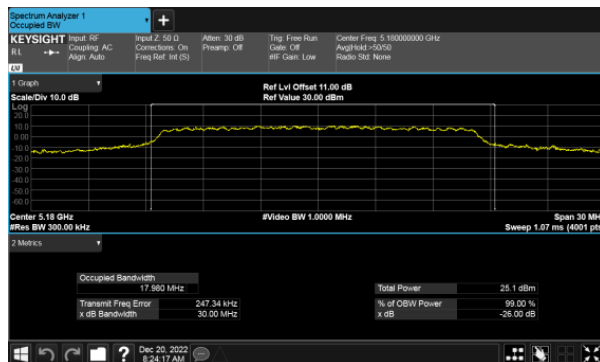


CH46

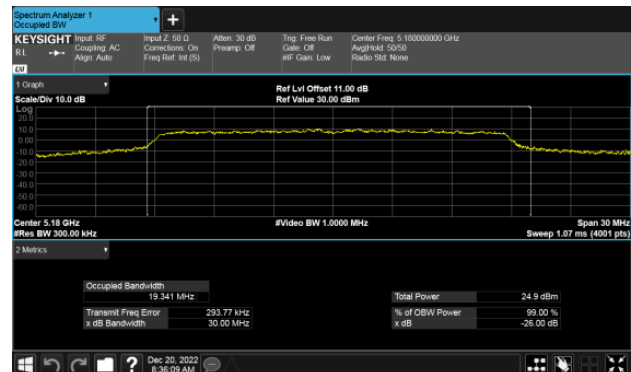




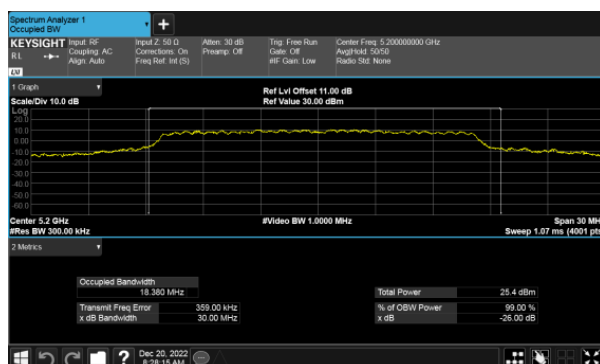
ANT B
99% Bandwidth Band 1
Modulation Type: 802.11a (6Mbps)
CH36



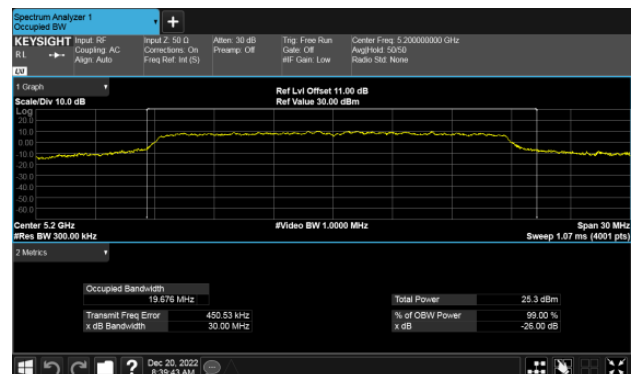
802.11ac VHT20 (6.5Mbps)
CH36



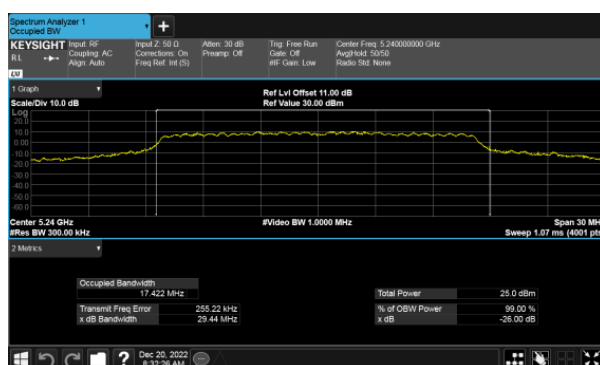
CH40



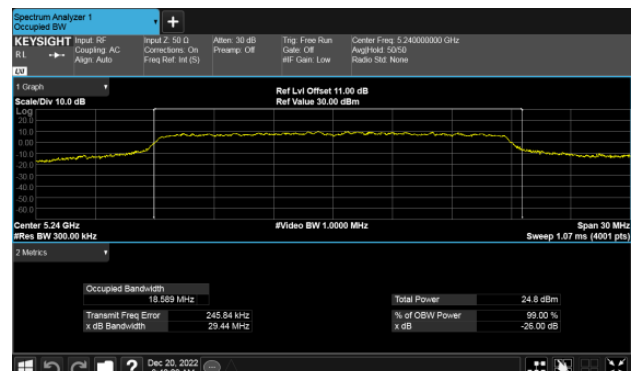
CH40



CH48



CH48

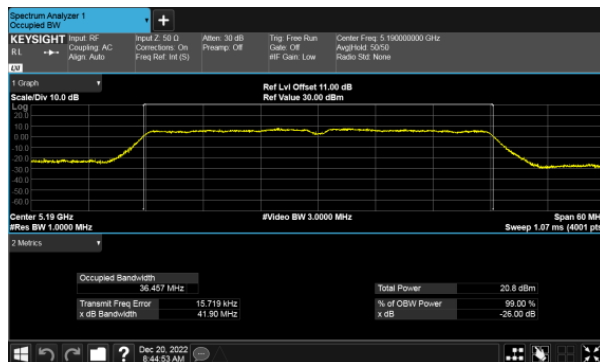




ANT B

99% Bandwidth Band 1

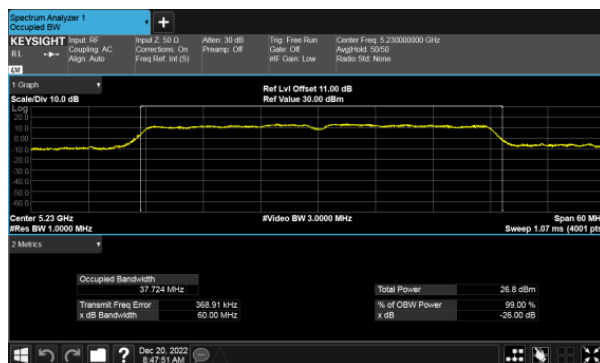
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

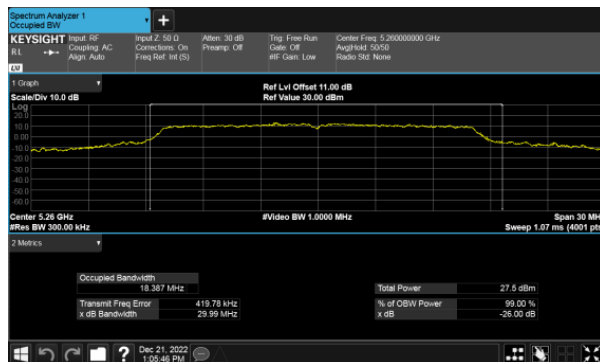


CH46

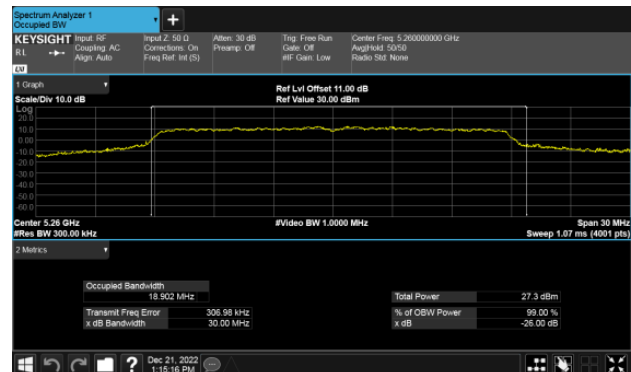




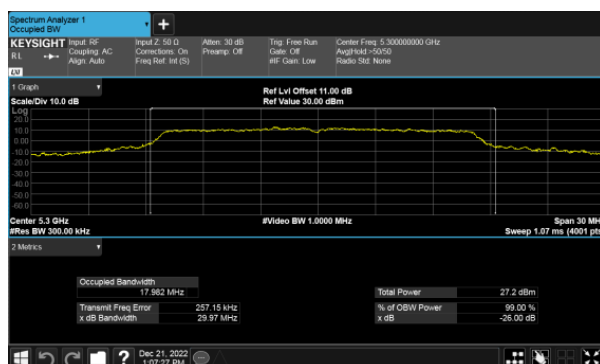
ANT A
99% Bandwidth Band 2
Modulation Type: 802.11a (6Mbps)
CH52



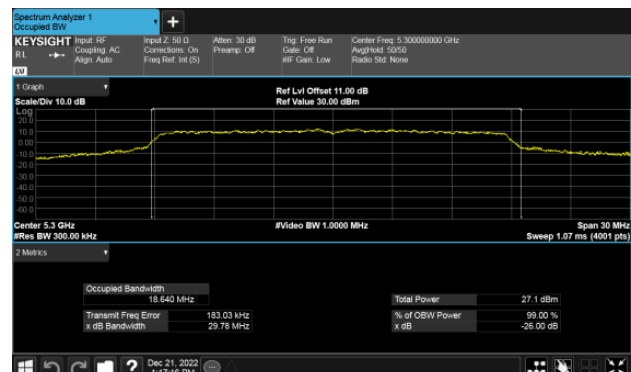
802.11ac VHT20 (6.5Mbps)
CH52



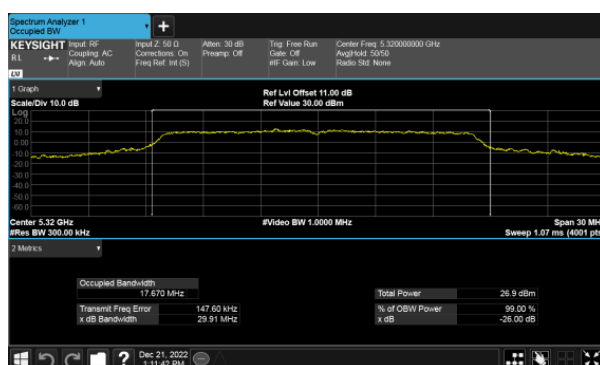
CH60



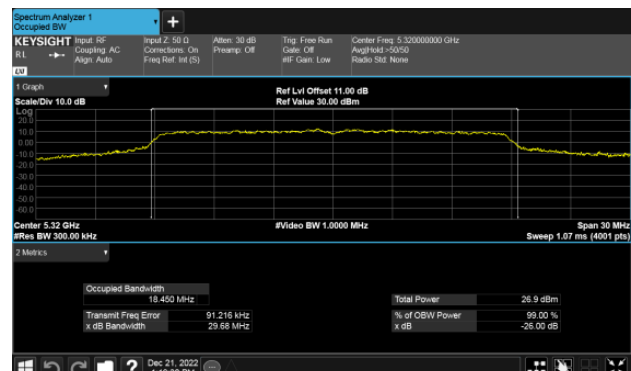
CH60



CH64



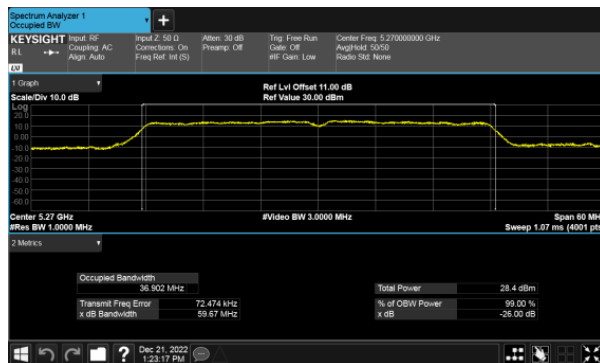
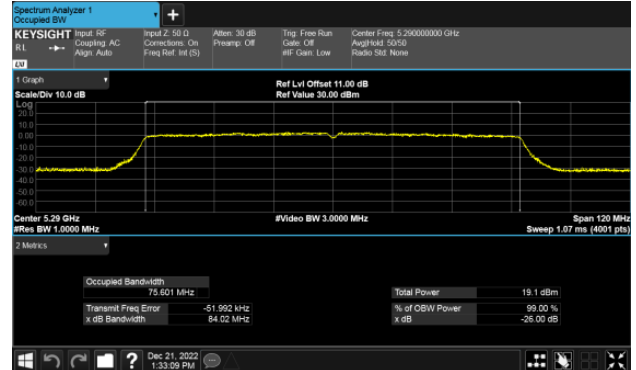
CH64



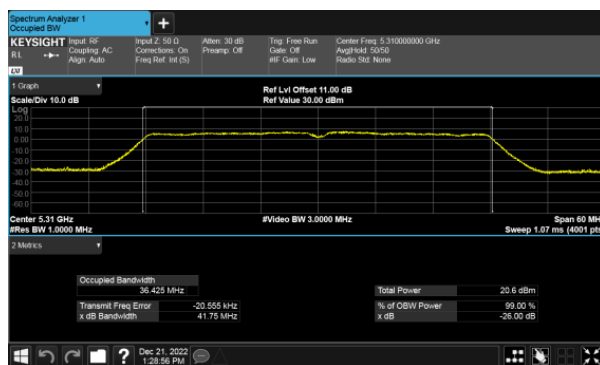


ANT A

99% Bandwidth Band 2

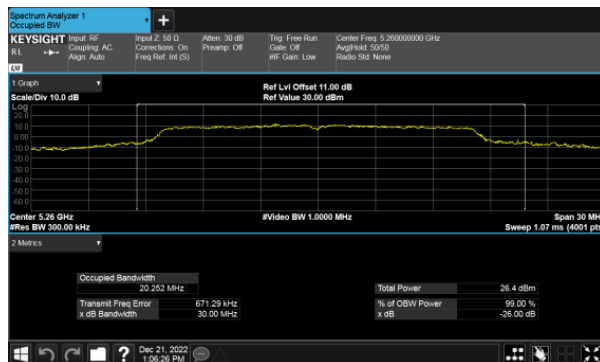
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH54Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH58

CH62

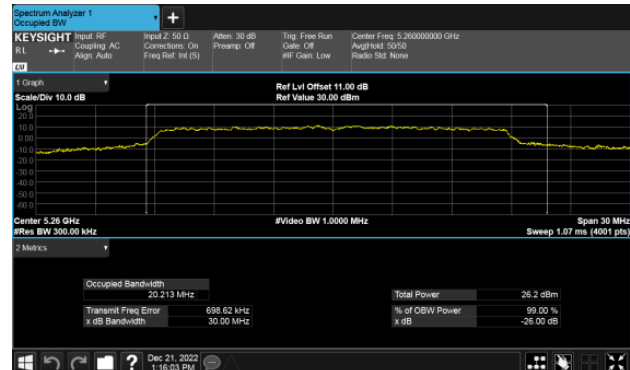




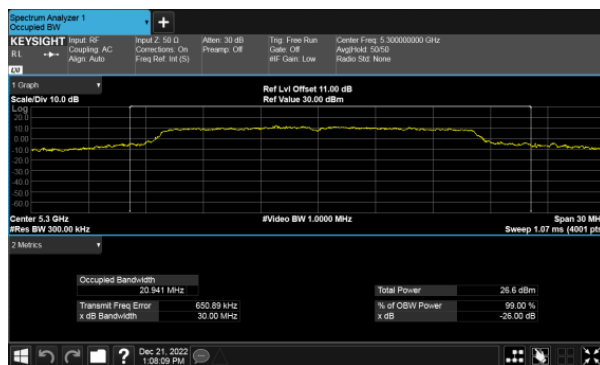
ANT B
99% Bandwidth Band 2
Modulation Type: 802.11a (6Mbps)
CH52



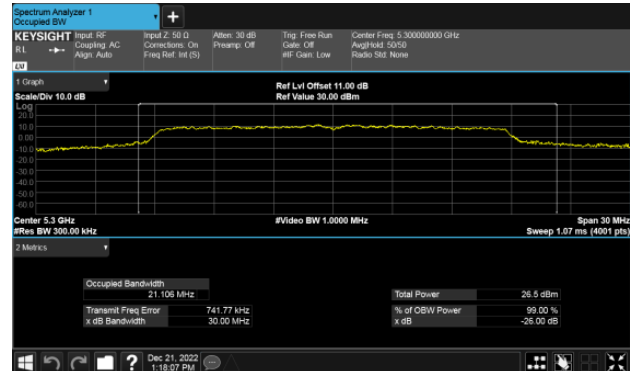
802.11ac VHT20 (6.5Mbps)
CH52



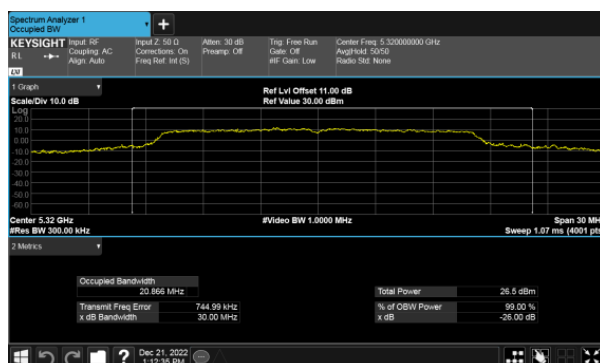
CH60



CH60



CH64



CH64

