



6dB Bandwidth

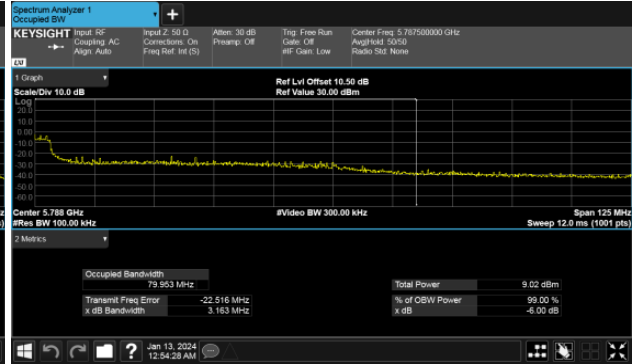
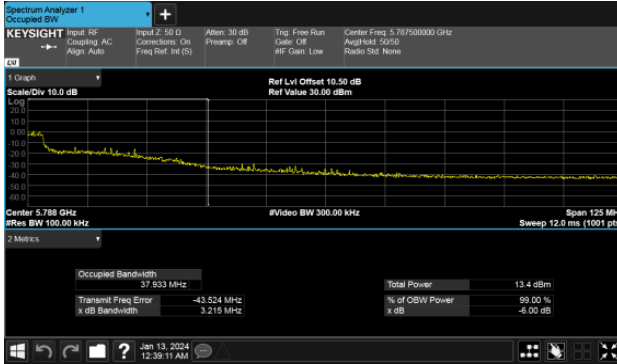
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11ac VHT40 CH142

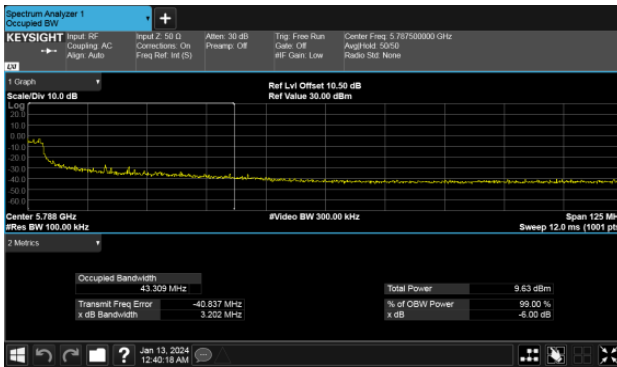
ANT A

Modulation Type: 802.11ac VHT80 CH138

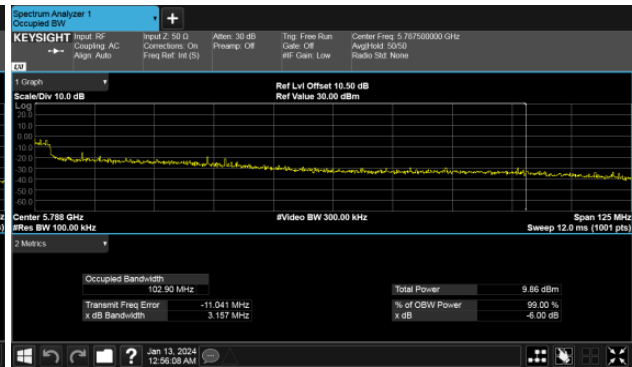
ANT A



ANT B



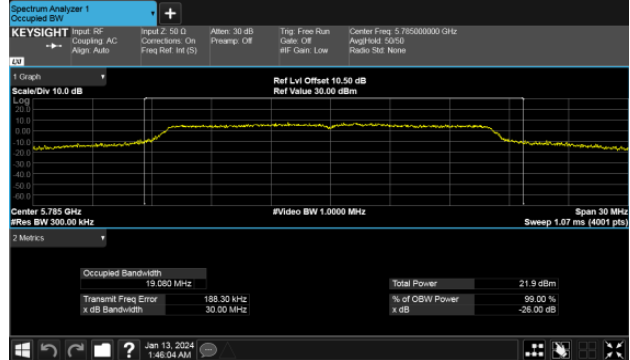
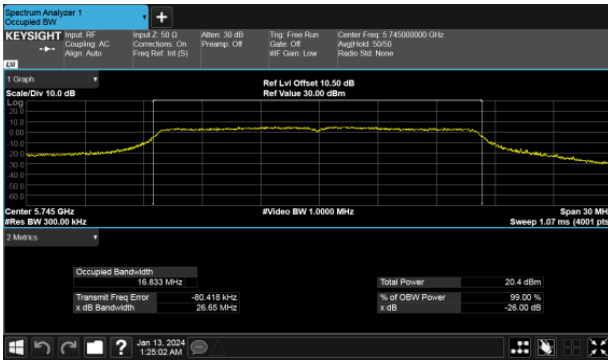
ANT B





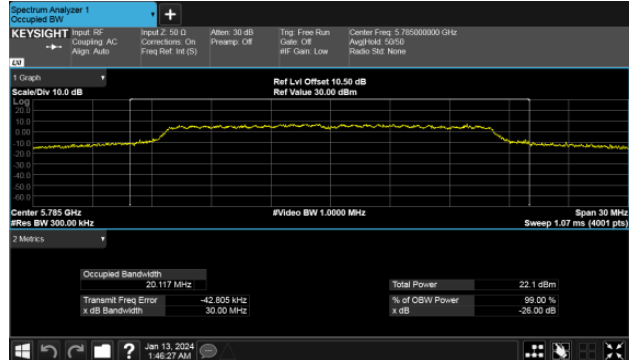
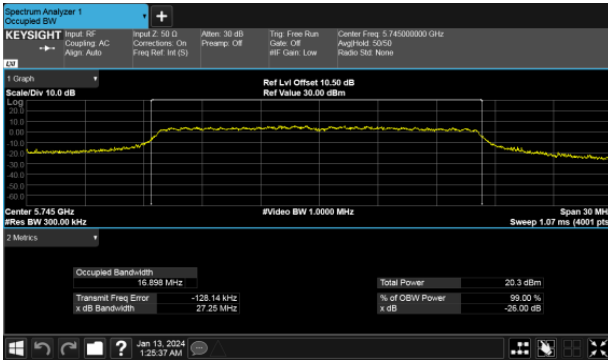
99% Bandwidth
Modulation Type: 802.11a CH149
ANT A

Modulation Type: 802.11a CH157
ANT A



ANT B

ANT B





99% Bandwidth
Modulation Type: 802.11a CH165
ANT A



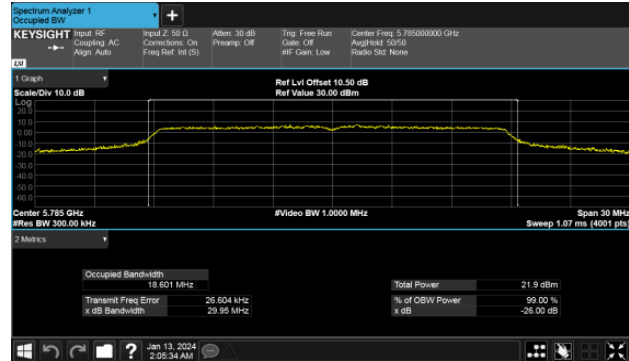
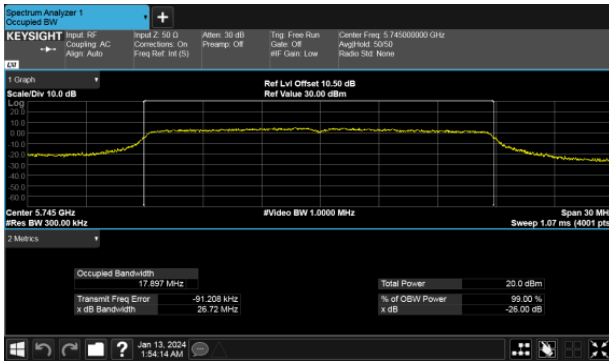
ANT B





99% Bandwidth
Modulation Type: 802.11ac VHT20 CH149
ANT A

Modulation Type: 802.11ac VHT20 CH157
ANT A



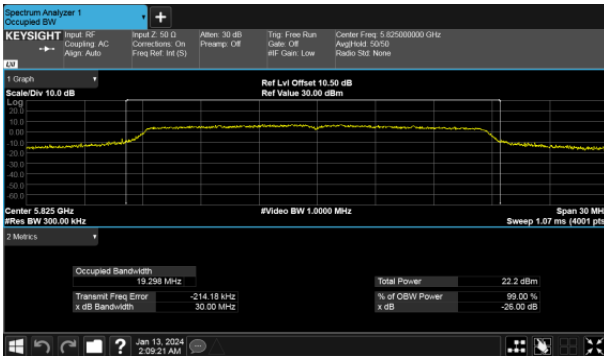
ANT B

ANT B





99% Bandwidth
Modulation Type: 802.11ac VHT20 CH165
ANT A



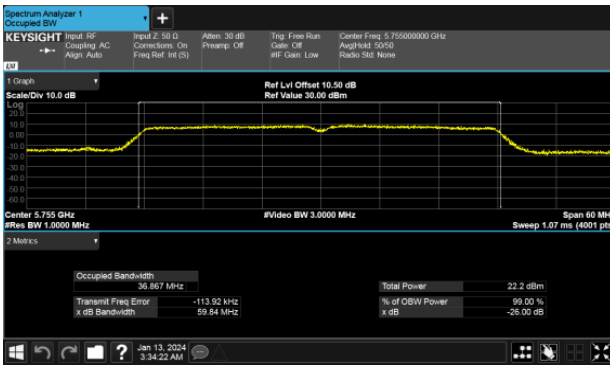
ANT B



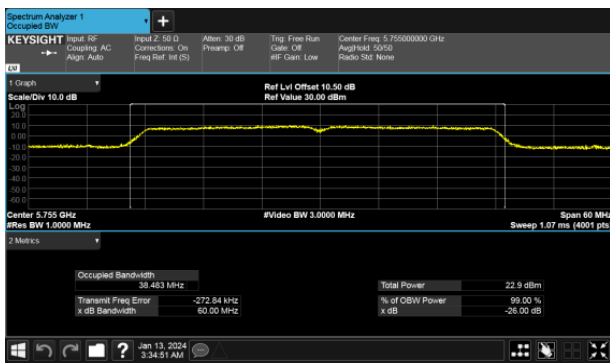


99% Bandwidth
Modulation Type: 802.11ac VHT40 CH151
ANT A

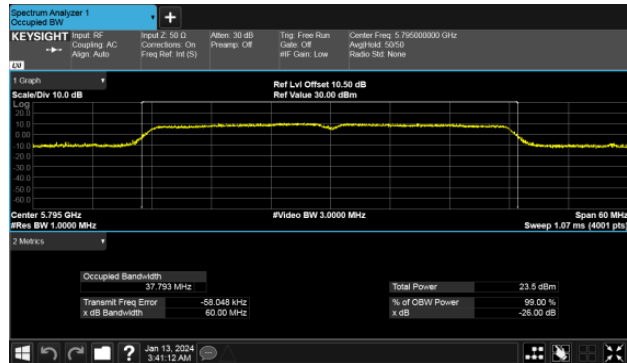
Modulation Type: 802.11ac VHT40 CH159
ANT A



ANT B

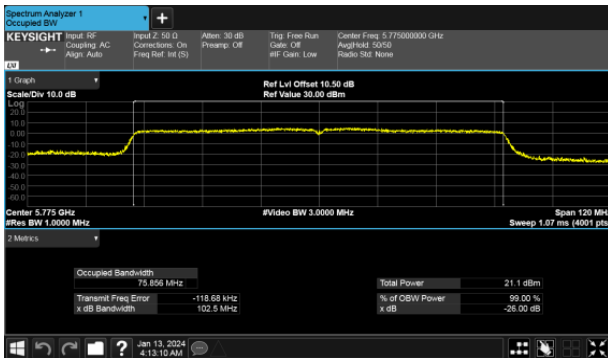


ANT B

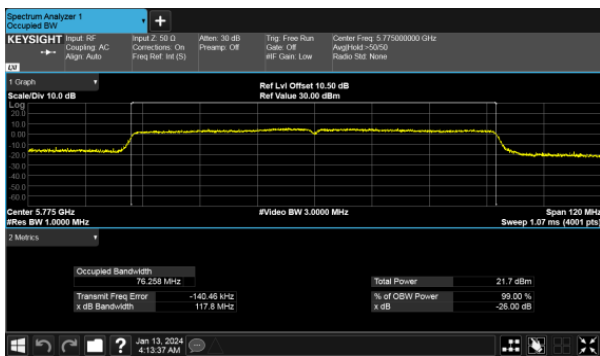




99% Bandwidth
Modulation Type: 802.11ac VHT80 CH155
ANT A



ANT B





99% Bandwidth

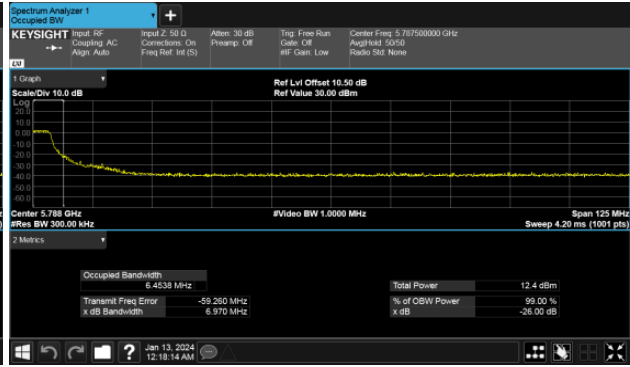
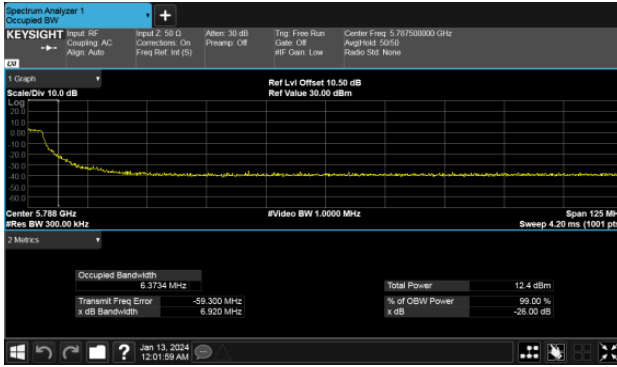
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a CH144

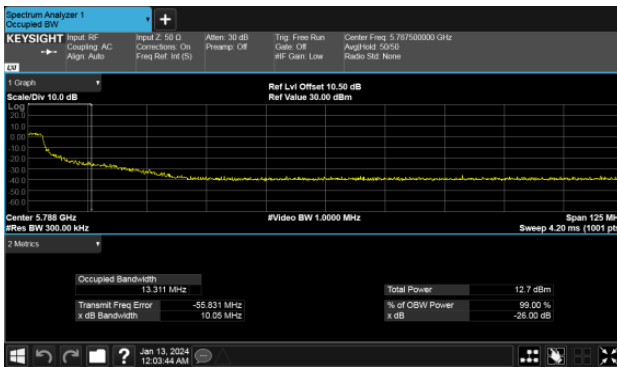
ANT A

Modulation Type: 802.11ac VHT20 CH144

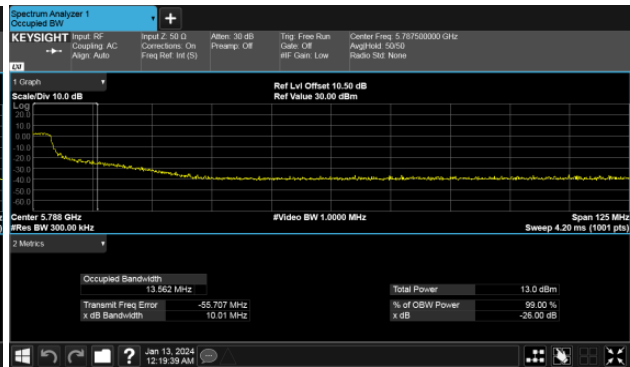
ANT A



ANT B



ANT B





6dB Bandwidth

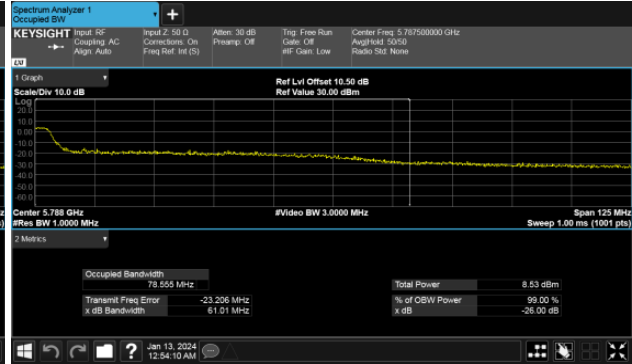
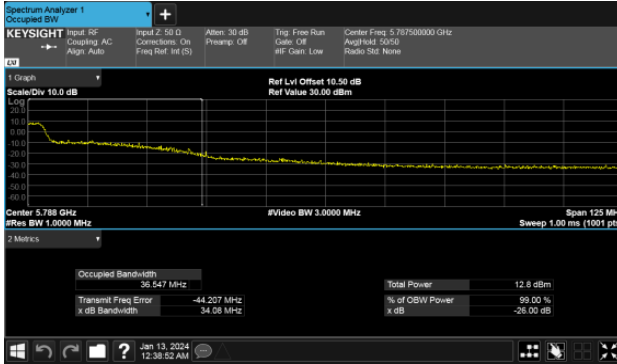
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11ac VHT40 CH142

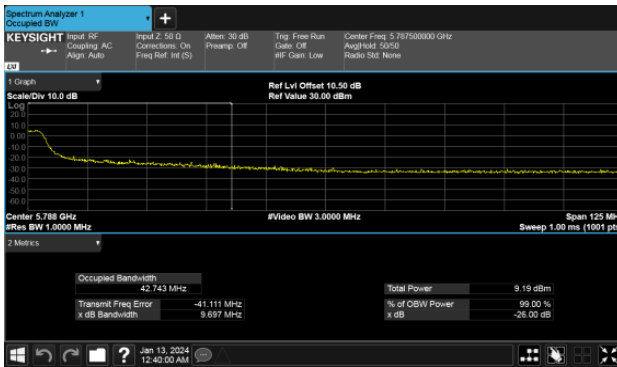
ANT A

Modulation Type: 802.11ac VHT80 CH138

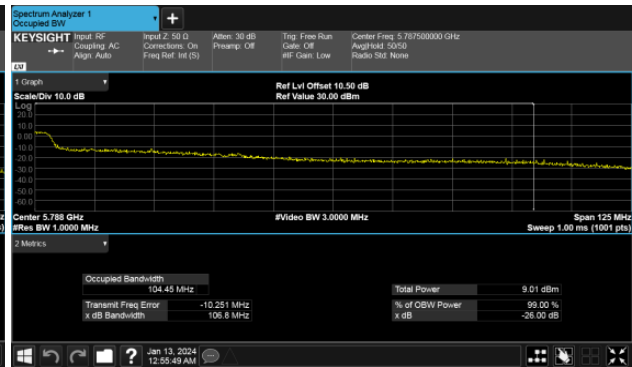
ANT A



ANT B



ANT B





9. 26dB Bandwidth & 99% Occupied Bandwidth

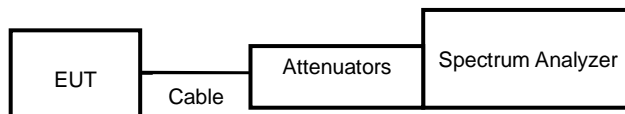
9.1. Test Limit

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

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	36	5180	25.00	22.96
11a	40	5200	23.60	23.19
11a	48	5240	23.46	22.42
11ac VHT20	36	5180	24.83	23.85
11ac VHT20	40	5200	24.74	24.02
11ac VHT20	48	5240	25.21	24.60
11ac VHT40	38	5190	42.48	42.25
11ac VHT40	46	5230	52.83	51.78
11ac VHT80	42	5210	86.16	84.88



In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	52	5260	23.08	23.16
11a	60	5300	24.41	23.15
11a	64	5320	23.76	22.63
11ac VHT20	52	5260	24.42	24.67
11ac VHT20	60	5300	24.26	24.02
11ac VHT20	64	5320	24.52	24.07
11ac VHT40	54	5270	52.92	52.22
11ac VHT40	62	5310	42.4	47.22
11ac VHT80	58	5290	83.69	82.95

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	100	5500	22.78	22.51
11a	120	5600	25.55	29.34
11a	140	5700	22.74	23.95
11ac VHT20	100	5500	23.96	25.75
11ac VHT20	120	5600	26.45	26.51
11ac VHT20	140	5700	23.74	25.37
11ac VHT40	102	5510	42.23	41.88
11ac VHT40	118	5590	59.43	60
11ac VHT40	134	5670	49.71	52.34
11ac VHT80	106	5530	85.3	83.77
11ac VHT80	122	5610	97.24	104.9

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	17.38	24.55
11ac VHT20	NSS1-MCS0	5720	21.22	25.02
11ac VHT40	NSS1-MCS0	5710	63.20	52.82
11ac VHT80	NSS1-MCS0	5690	120.20	139.10



In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	36	5180	16.80	16.70
11a	40	5200	16.82	16.68
11a	48	5240	16.72	16.70
11ac VHT20	36	5180	17.86	17.88
11ac VHT20	40	5200	17.96	17.87
11ac VHT20	48	5240	17.93	17.91
11ac VHT40	38	5190	36.43	36.48
11ac VHT40	46	5230	36.58	36.72
11ac VHT80	42	5210	75.70	75.89

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	52	5260	16.72	16.66
11a	60	5300	16.76	16.69
11a	64	5320	16.76	16.69
11ac VHT20	52	5260	17.91	17.82
11ac VHT20	60	5300	17.88	17.84
11ac VHT20	64	5320	17.88	17.86
11ac VHT40	54	5270	36.60	35.60
11ac VHT40	62	5310	36.52	36.57
11ac VHT80	58	5290	75.57	75.59



In the 5.5G Band

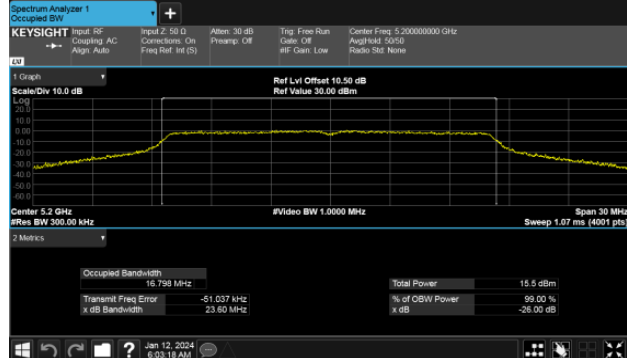
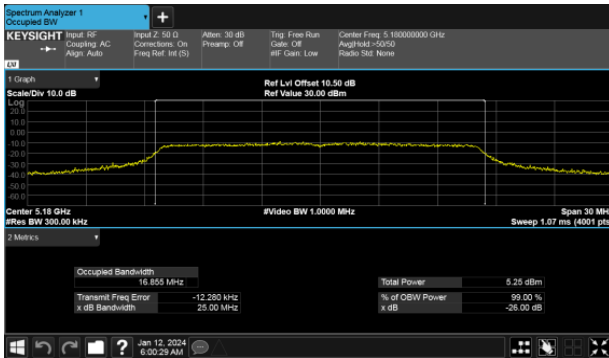
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	100	5500	16.71	16.65
11a	120	5600	16.71	16.96
11a	140	5700	16.75	16.70
11ac VHT20	100	5500	17.86	17.85
11ac VHT20	120	5600	17.90	17.92
11ac VHT20	140	5700	17.87	17.84
11ac VHT40	102	5510	36.50	36.54
11ac VHT40	118	5590	36.72	37.13
11ac VHT40	134	5670	36.57	36.71
11ac VHT80	106	5530	75.66	75.67
11ac VHT80	122	5610	75.67	75.79

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	13.65	15.32
11ac VHT20	NSS1-MCS0	5720	14.07	17.96
11ac VHT40	NSS1-MCS0	5710	47.00	33.97
11ac VHT80	NSS1-MCS0	5690	75.79	97.11



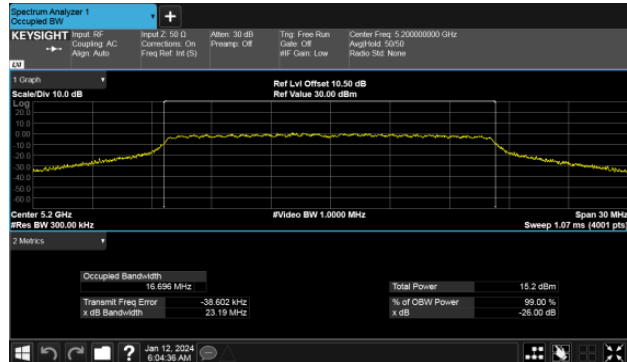
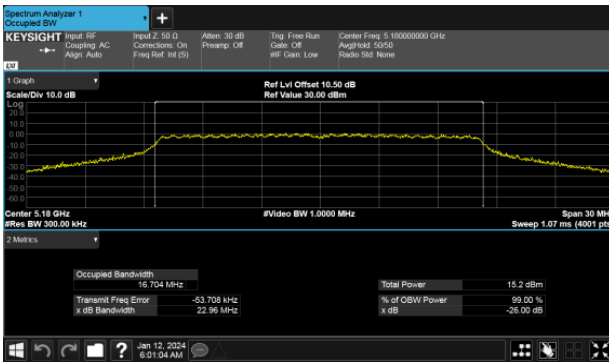
26dB Bandwidth
Modulation Type: 802.11a CH36
ANT A

Modulation Type: 802.11a CH40
ANT A



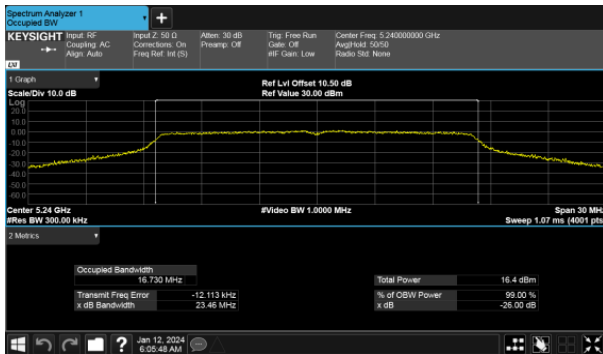
ANT B

ANT B





26dB Bandwidth
Modulation Type: 802.11a CH48
ANT A



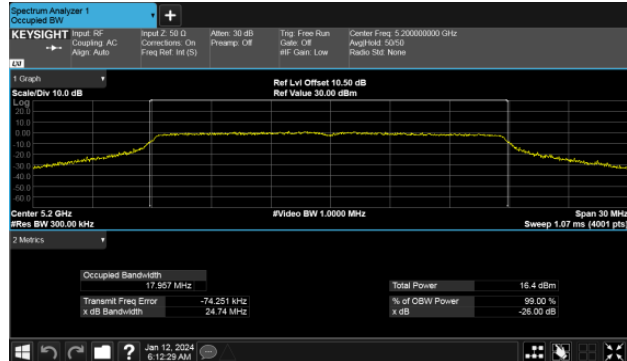
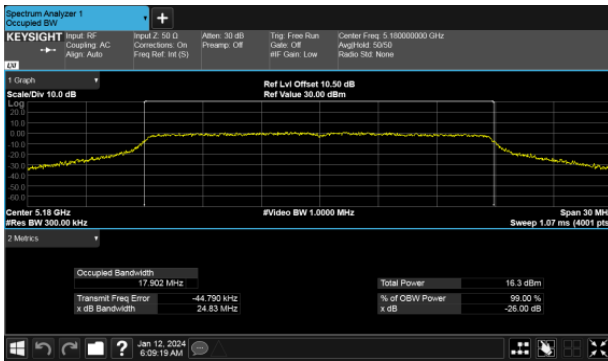
ANT B



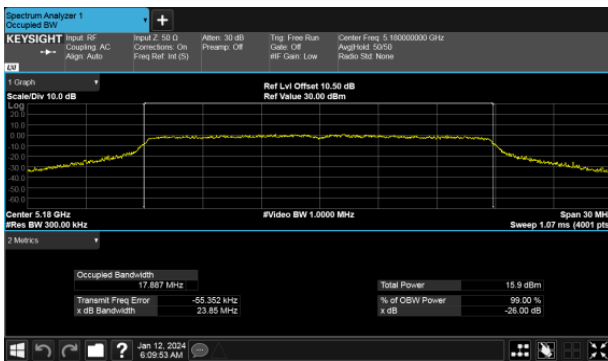


26dB Bandwidth
Modulation Type: 802.11ac VHT20 CH36
ANT A

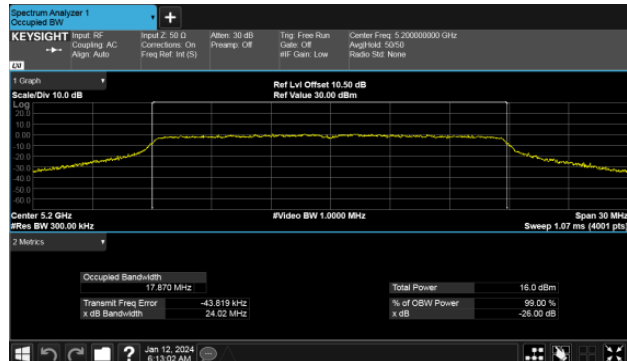
Modulation Type: 802.11ac VHT20 CH40
ANT A



ANT B

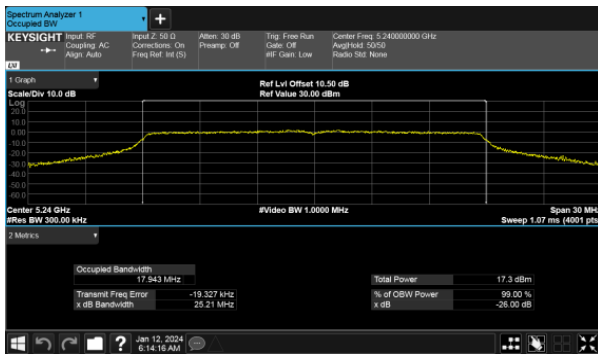


ANT B





26dB Bandwidth
Modulation Type: 802.11ac VHT20 CH48
ANT A



ANT B



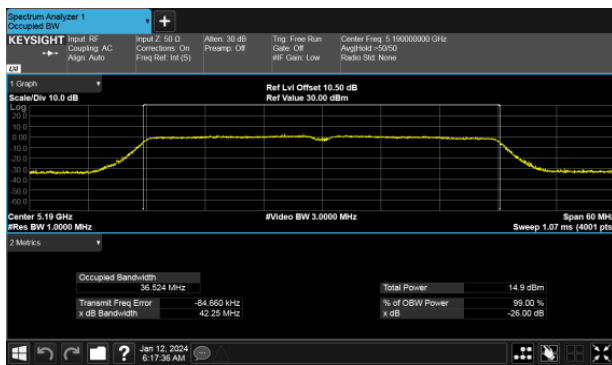


26dB Bandwidth
Modulation Type: 802.11ac VHT40 CH38
ANT A

Modulation Type: 802.11ac VHT40 CH46
ANT A



ANT B

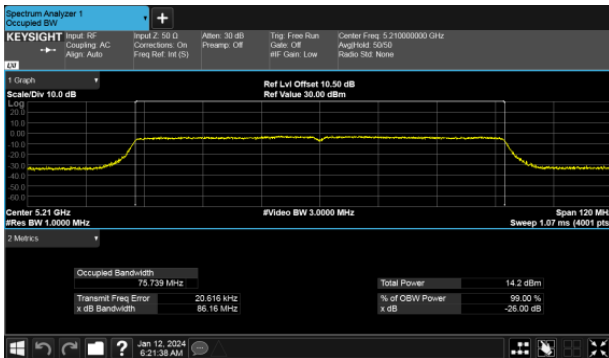


ANT B

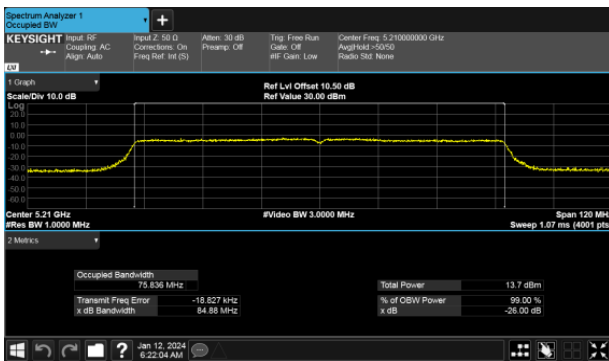




26dB Bandwidth
Modulation Type: 802.11ac VHT80 CH42
ANT A



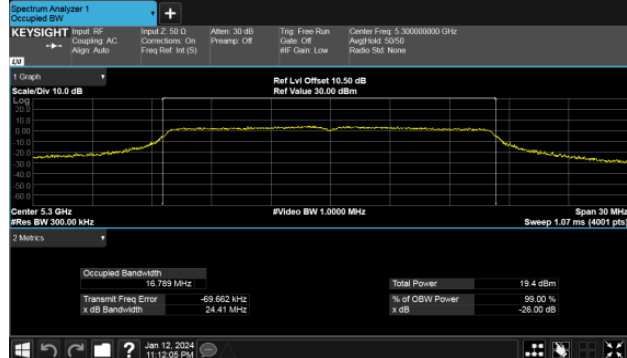
ANT B





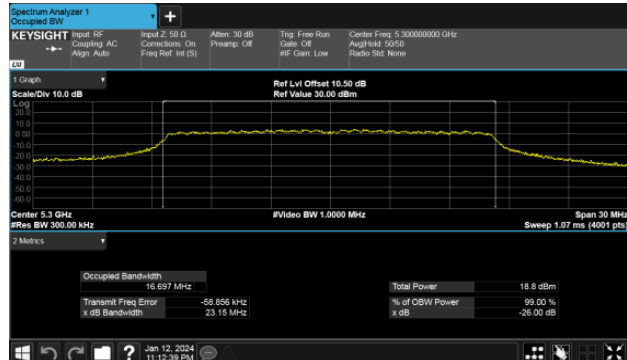
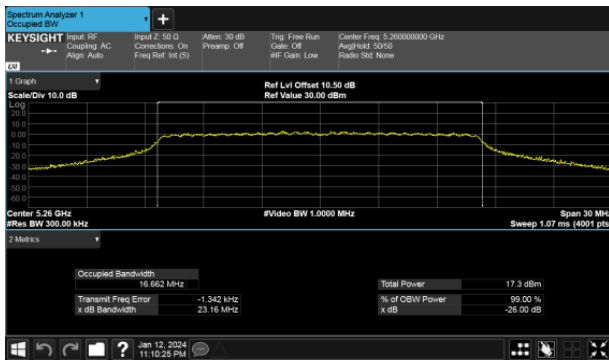
26dB Bandwidth
Modulation Type: 802.11a CH52
ANT A

Modulation Type: 802.11a CH60
ANT A



ANT B

ANT B





26dB Bandwidth
Modulation Type: 802.11a CH64
ANT A

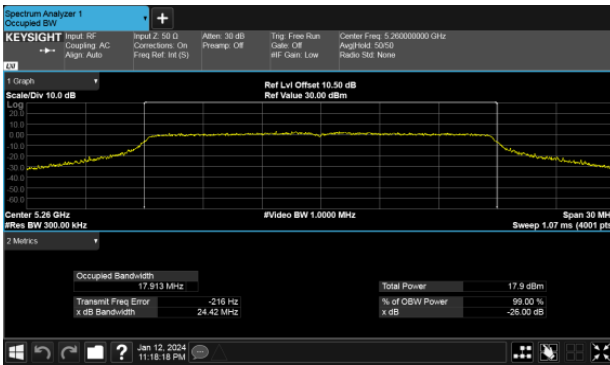


ANT B

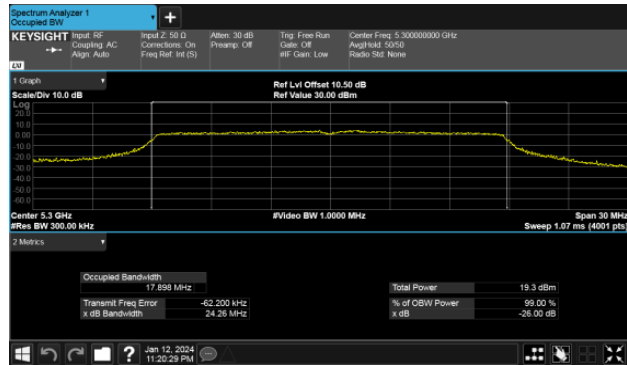




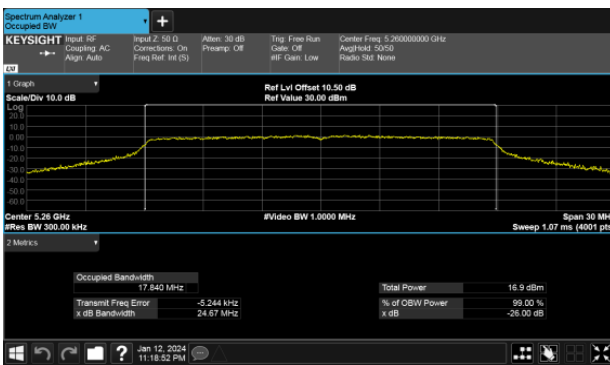
26dB Bandwidth
Modulation Type: 802.11ac VHT20 CH52
ANT A



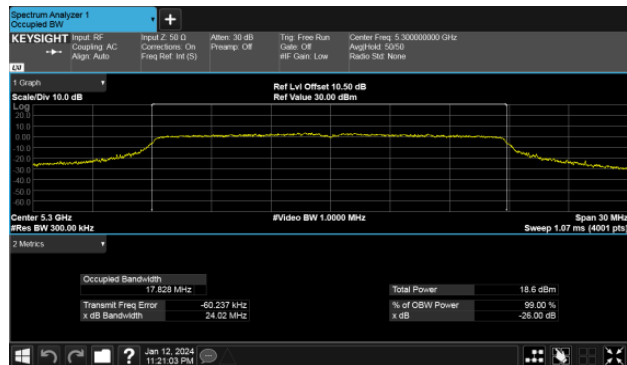
Modulation Type: 802.11ac VHT20 CH60
ANT A



ANT B

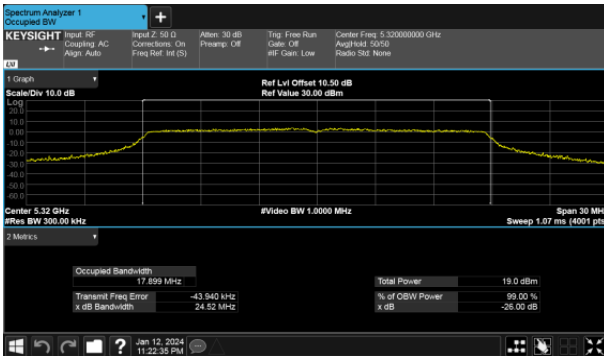


ANT B

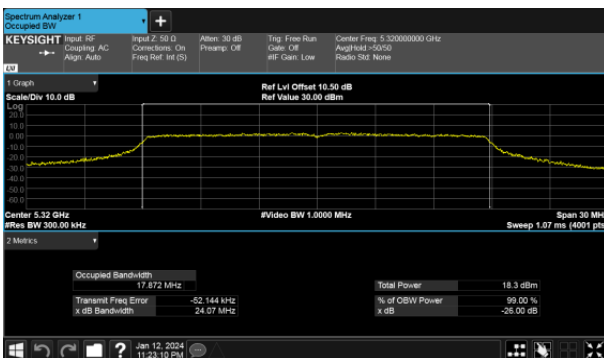




26dB Bandwidth
Modulation Type: 802.11ac VHT20 CH64
ANT A

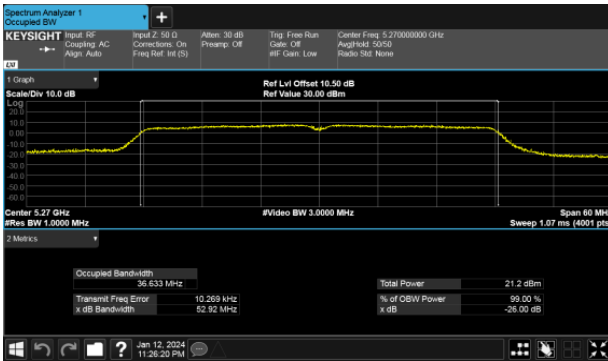


ANT B

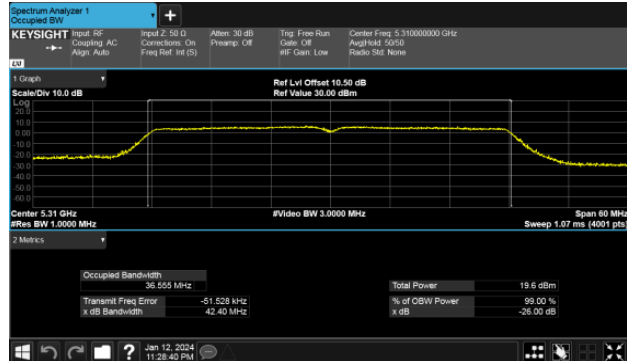




26dB Bandwidth
Modulation Type: 802.11ac VHT40 CH54
ANT A



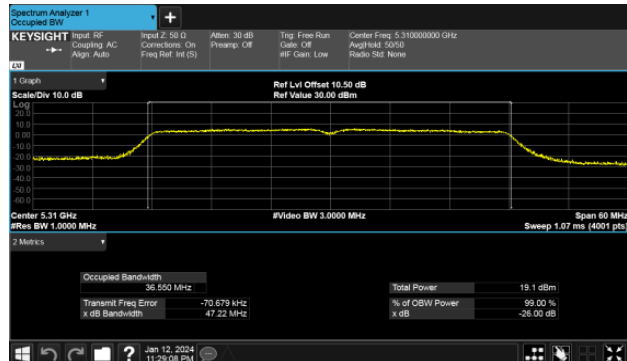
Modulation Type: 802.11ac VHT40 CH62
ANT A



ANT B

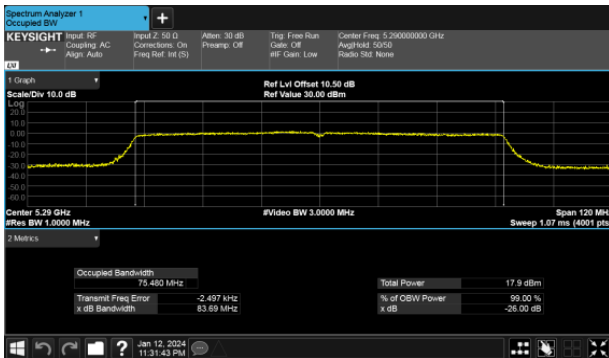


ANT B

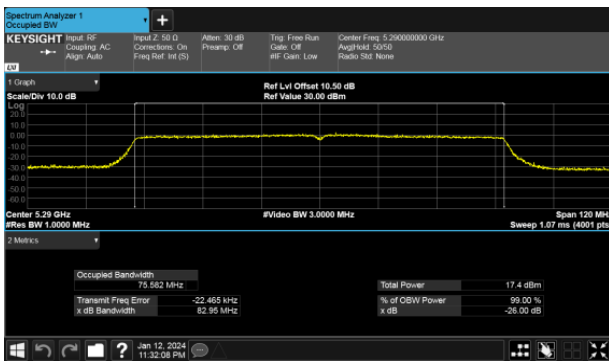




26dB Bandwidth
Modulation Type: 802.11ac VHT80 CH58
ANT A



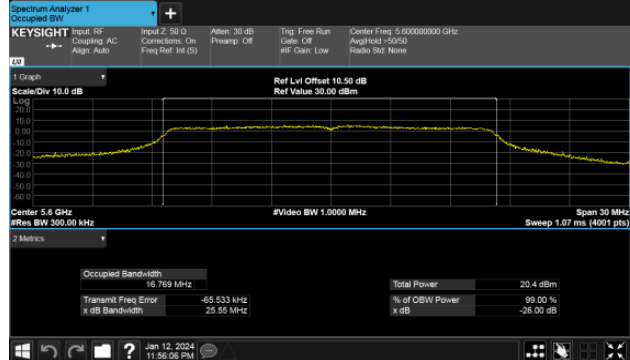
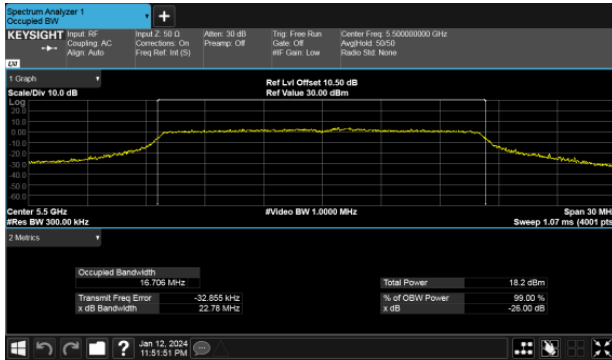
ANT B





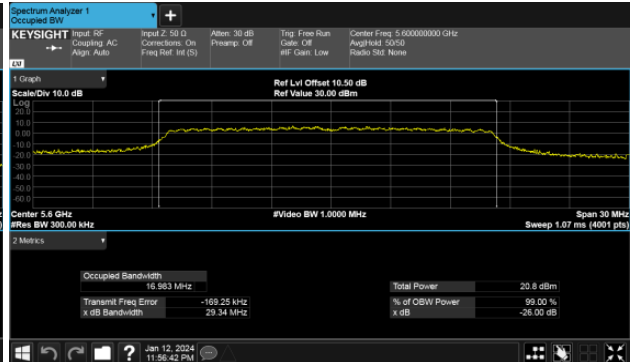
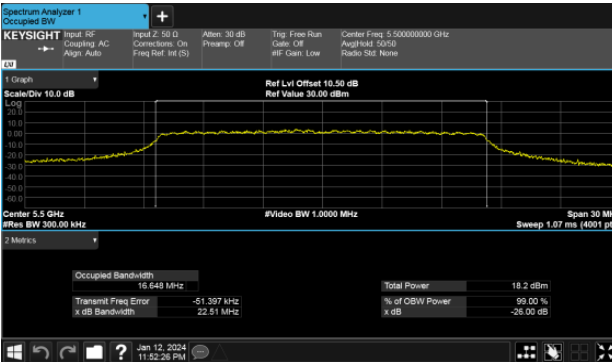
26dB Bandwidth
Modulation Type: 802.11a CH100
ANT A

Modulation Type: 802.11a CH120
ANT A



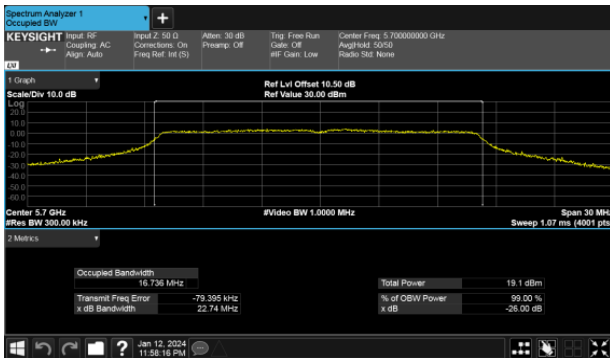
ANT B

ANT B





26dB Bandwidth
Modulation Type: 802.11a CH140
ANT A

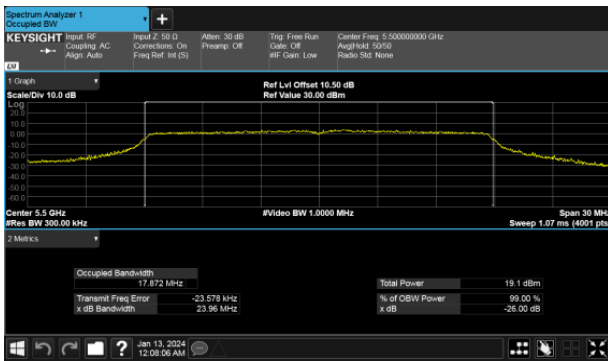


ANT B

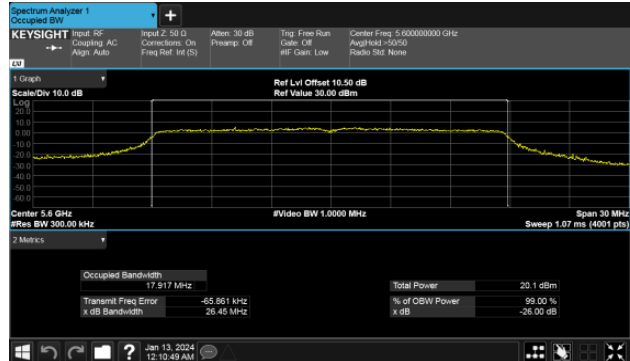




26dB Bandwidth
Modulation Type: 802.11ac VHT20 CH100
ANT A



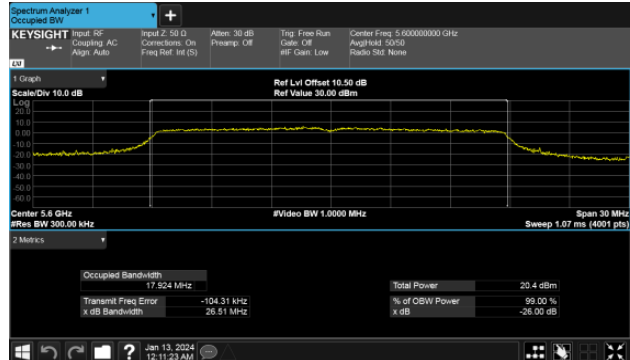
Modulation Type: 802.11ac VHT20 CH120
ANT A



ANT B

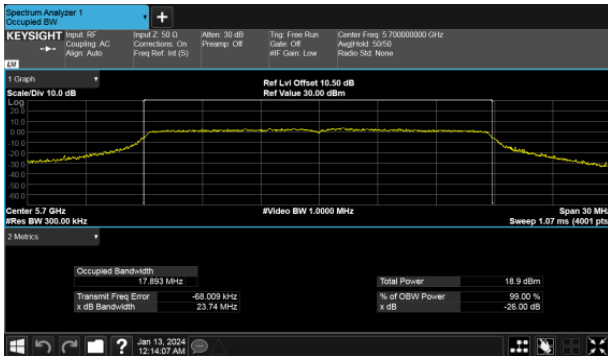


ANT B





26dB Bandwidth
Modulation Type: 802.11ac VHT20 CH140
ANT A



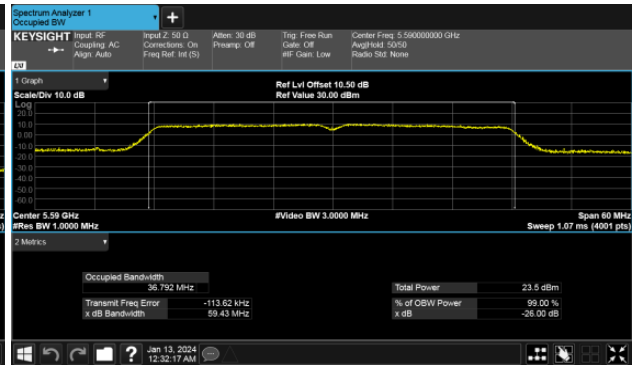
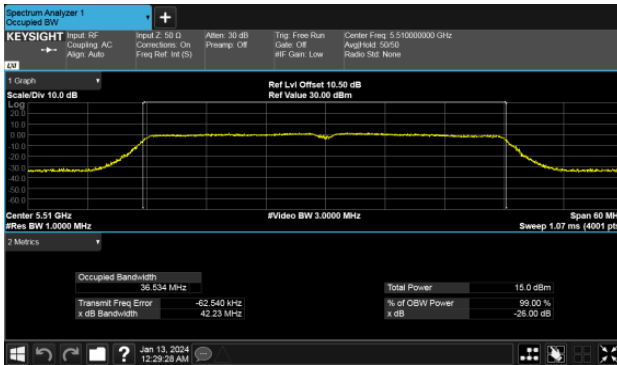
ANT B



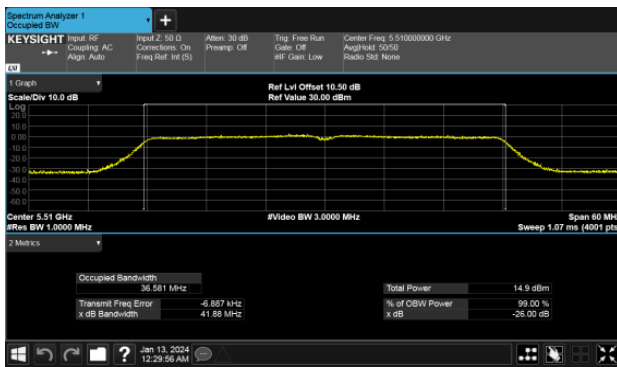


26dB Bandwidth
Modulation Type: 802.11ac VHT40 CH102
ANT A

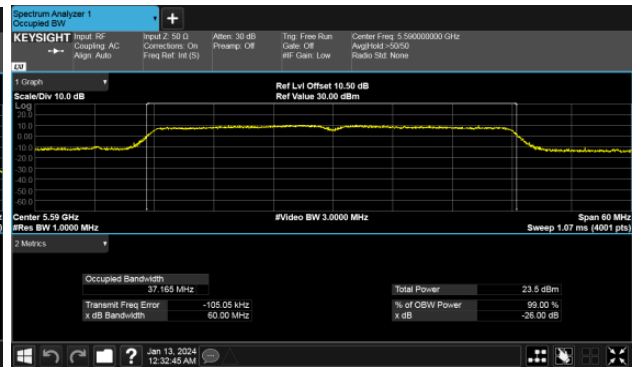
Modulation Type: 802.11ac VHT40 CH118
ANT A



ANT B



ANT B

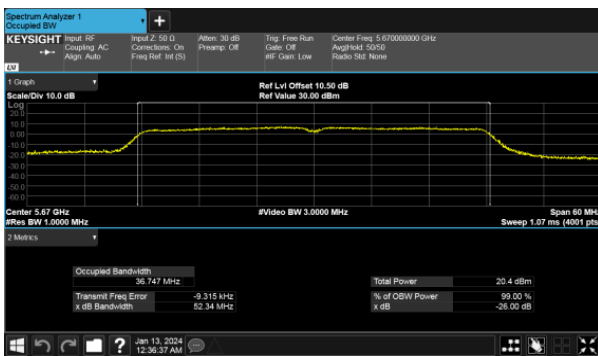




26dB Bandwidth
Modulation Type: 802.11ac VHT40 CH134
ANT A



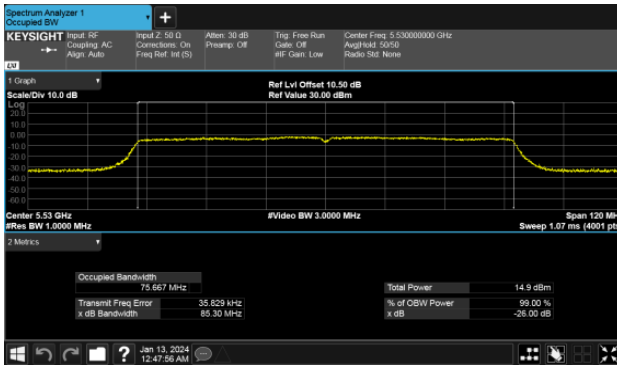
ANT B



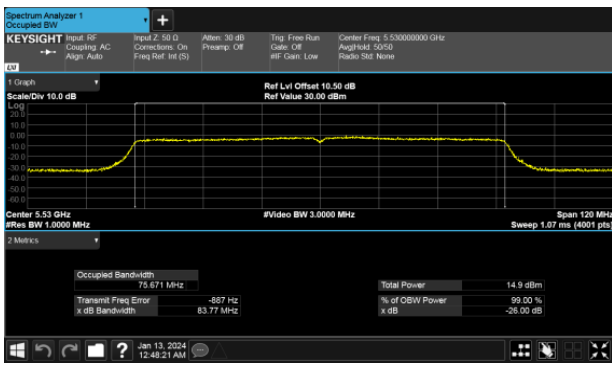


26dB Bandwidth
Modulation Type: 802.11ac VHT80 CH106
ANT A

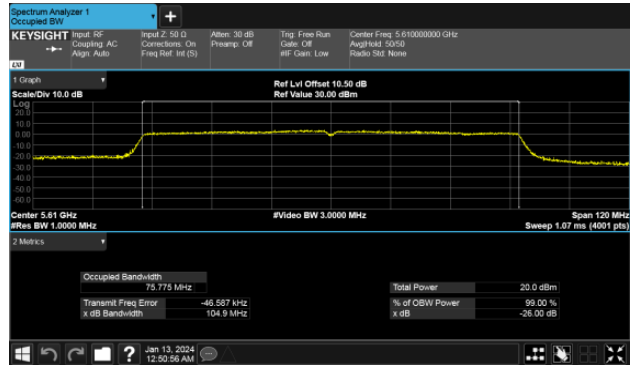
Modulation Type: 802.11ac VHT80 CH122
ANT A



ANT B



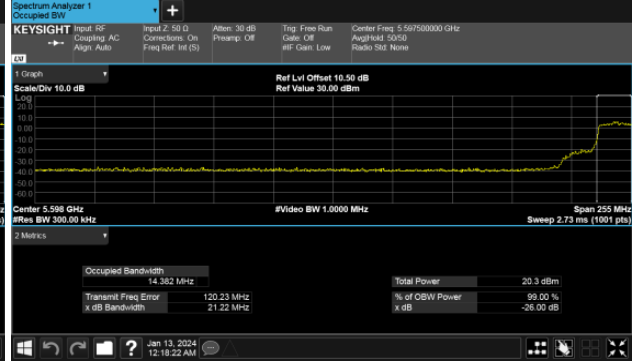
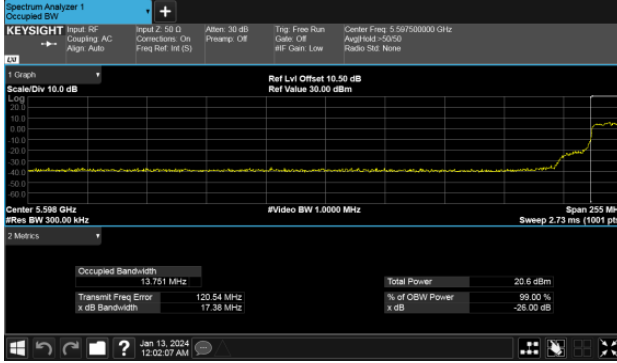
ANT B



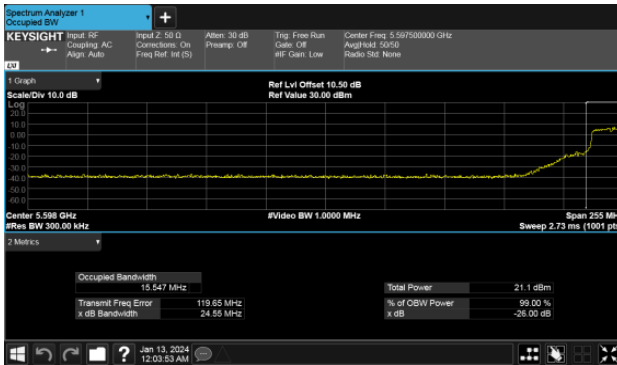


26dB Bandwidth
Within 5470-5725MHz Band, Straddle Channel
Modulation Type: 802.11a CH144
ANT A

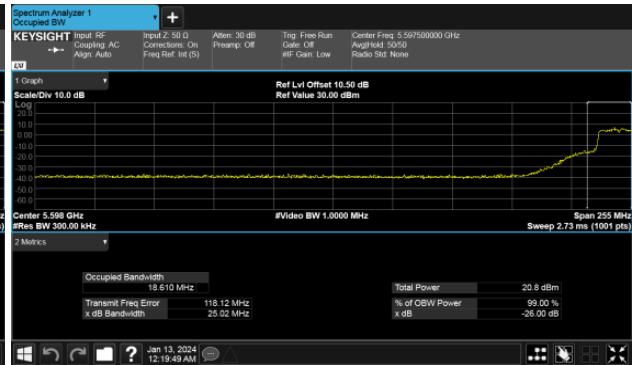
Modulation Type: 802.11ac VHT20 CH144
ANT A



ANT B



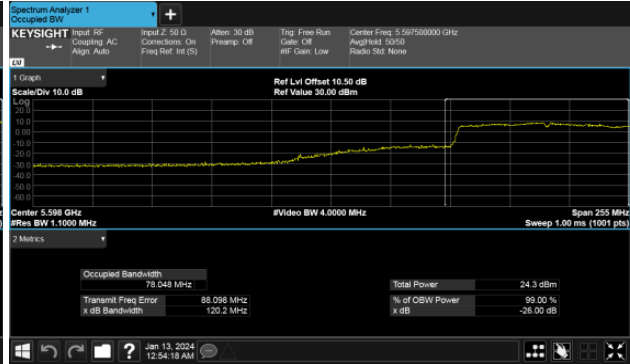
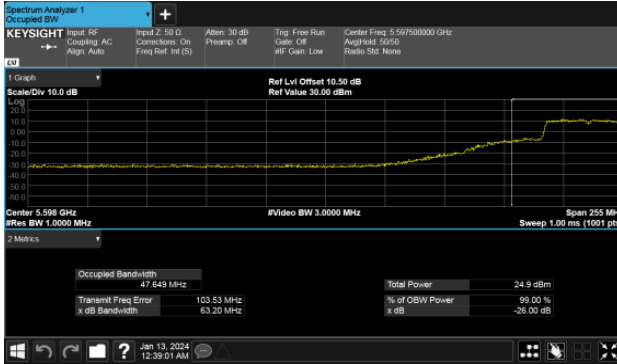
ANT B



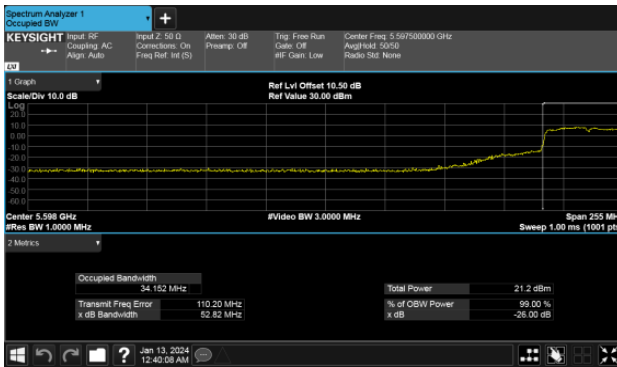


26dB Bandwidth
Within 5470-5725MHz Band, Straddle Channel
Modulation Type: 802.11ac VHT40 CH142
ANT A

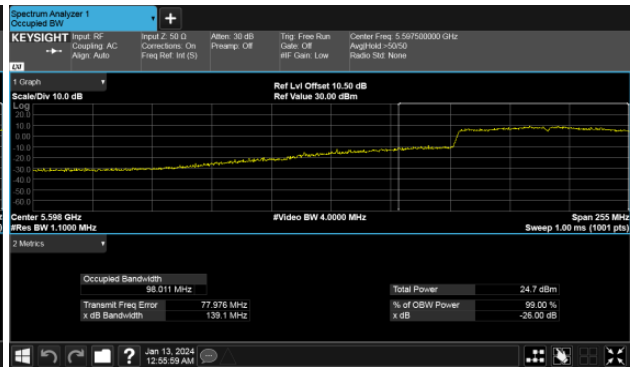
Modulation Type: 802.11ac VHT80 CH138
ANT A



ANT B



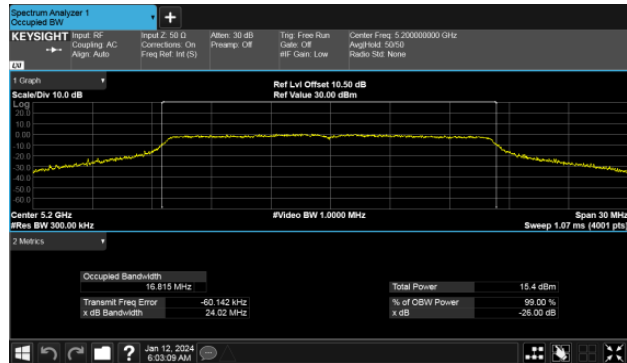
ANT B





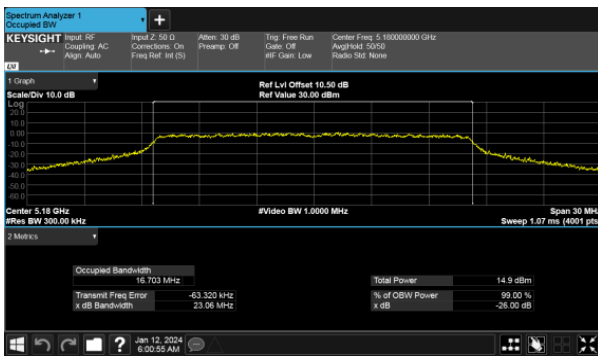
99% Bandwidth
Modulation Type: 802.11a CH36
ANT A

Modulation Type: 802.11a CH40
ANT A



ANT B

ANT B





99% Bandwidth
Modulation Type: 802.11a CH48
ANT A

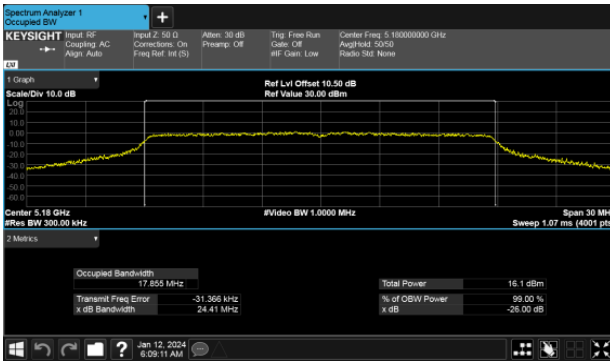


ANT B

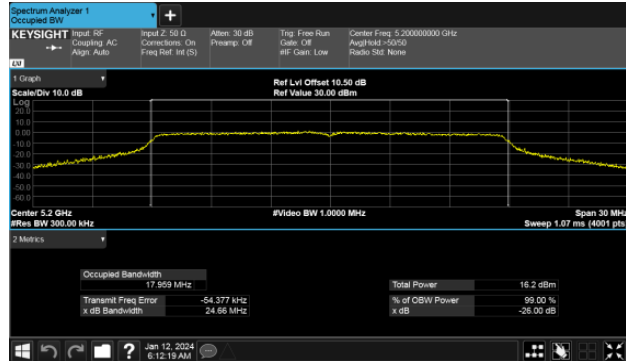




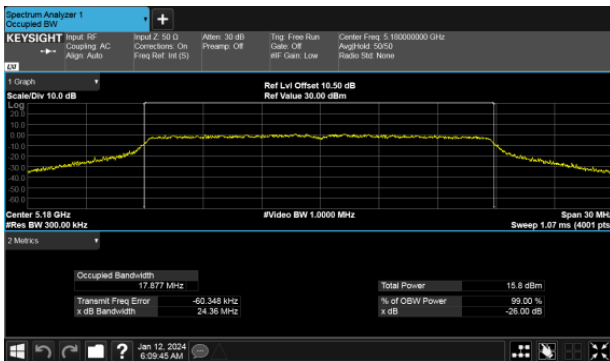
99% Bandwidth
Modulation Type: 802.11ac VHT20 CH36
ANT A



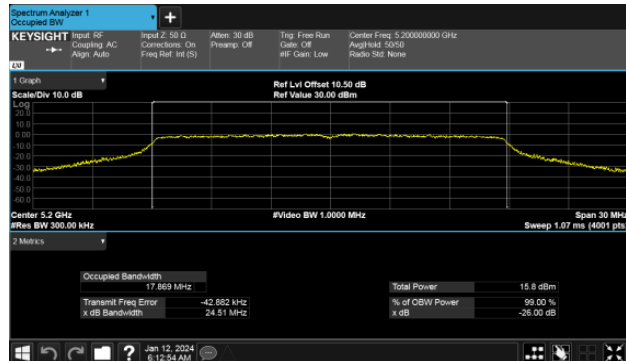
Modulation Type: 802.11ac VHT20 CH40
ANT A



ANT B

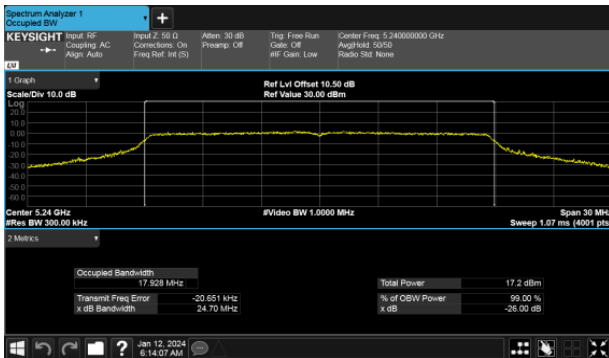


ANT B





99% Bandwidth
Modulation Type: 802.11ac VHT20 CH48
ANT A



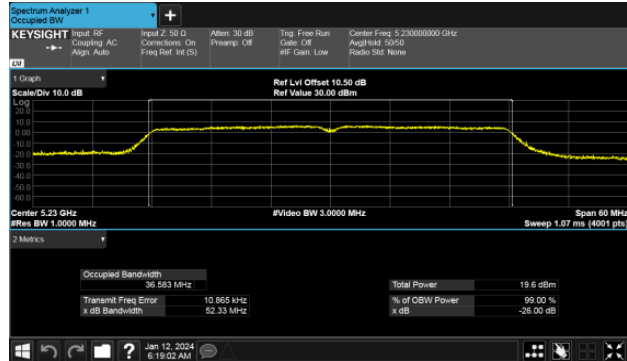
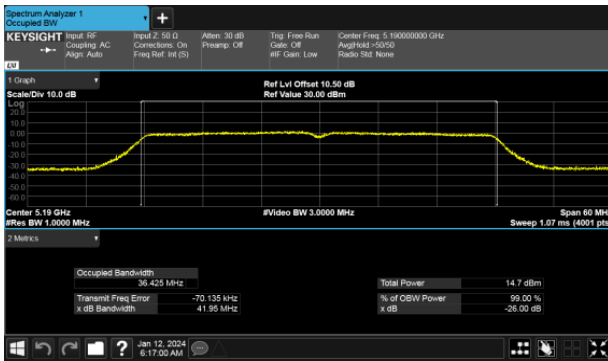
ANT B





99% Bandwidth
Modulation Type: 802.11ac VHT40 CH38
ANT A

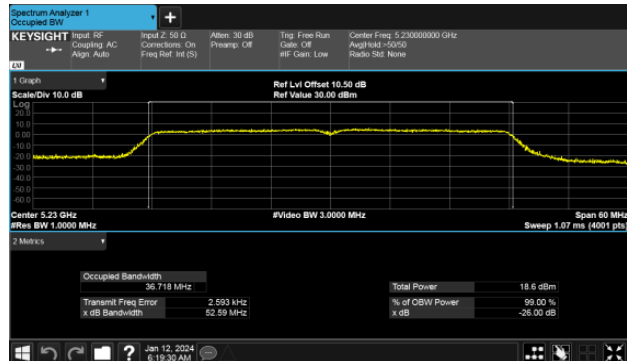
Modulation Type: 802.11ac VHT40 CH46
ANT B



ANT B

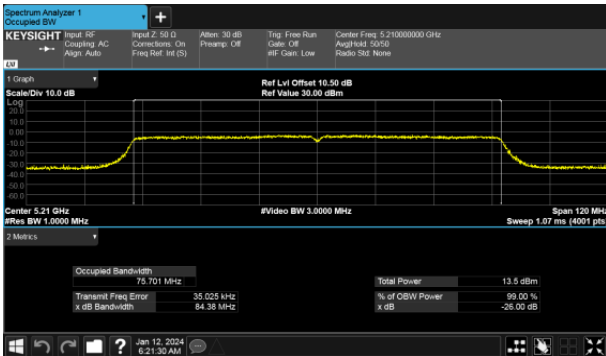


ANT B





99% Bandwidth
Modulation Type: 802.11ac VHT80 CH42
ANT A



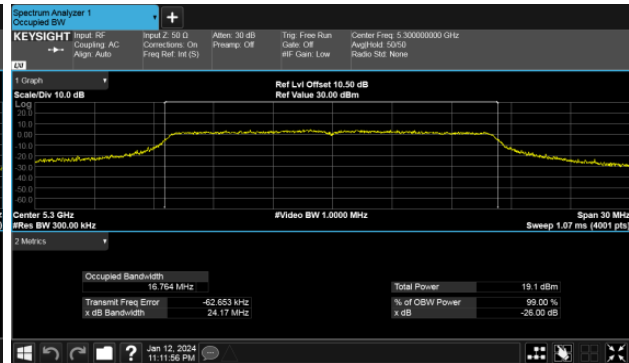
ANT B





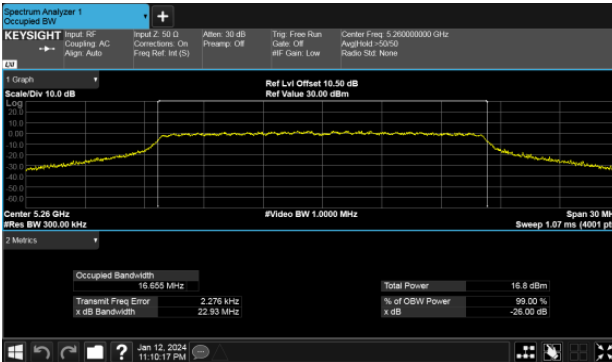
99% Bandwidth
Modulation Type: 802.11a CH52
ANT A

Modulation Type: 802.11a CH60
ANT A



ANT B

ANT B

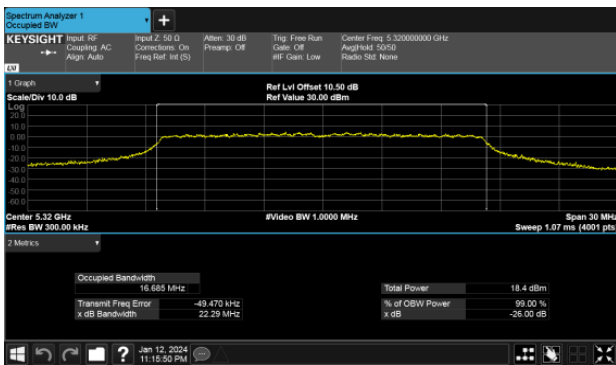




99% Bandwidth
Modulation Type: 802.11a CH64
ANT A

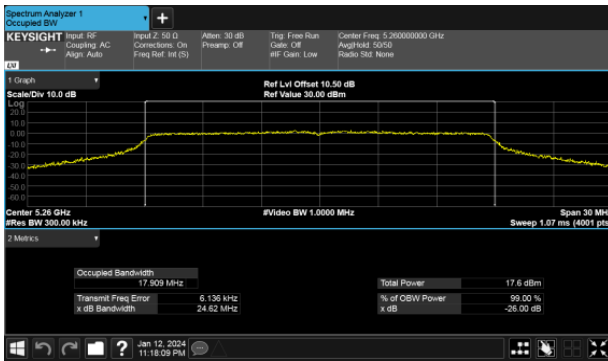


ANT B

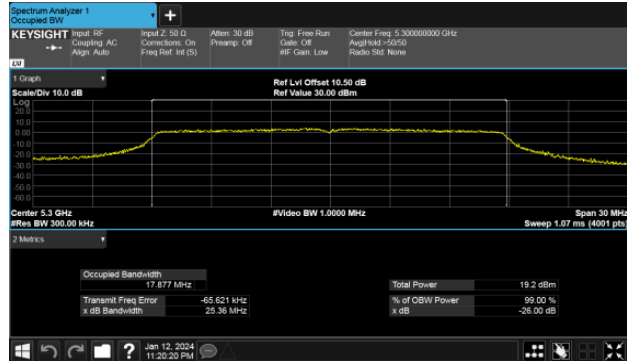




99% Bandwidth
Modulation Type: 802.11ac VHT20 CH52
ANT A



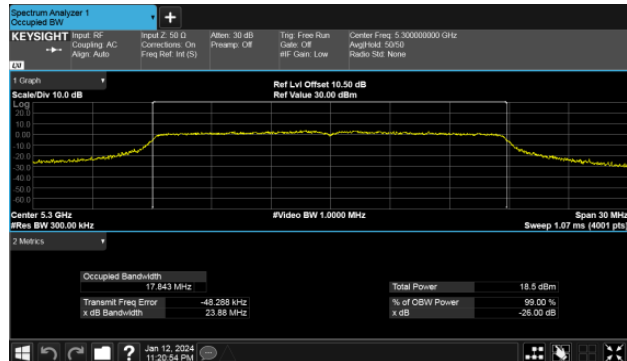
Modulation Type: 802.11ac VHT20 CH60
ANT A



ANT B

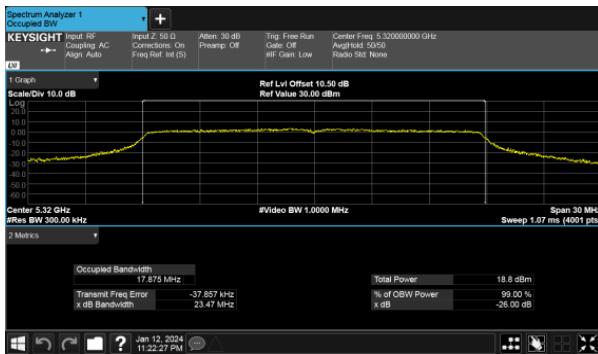


ANT B

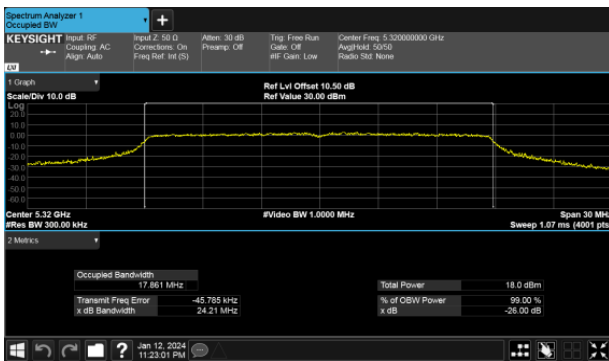




99% Bandwidth
Modulation Type: 802.11ac VHT20 CH64
ANT A



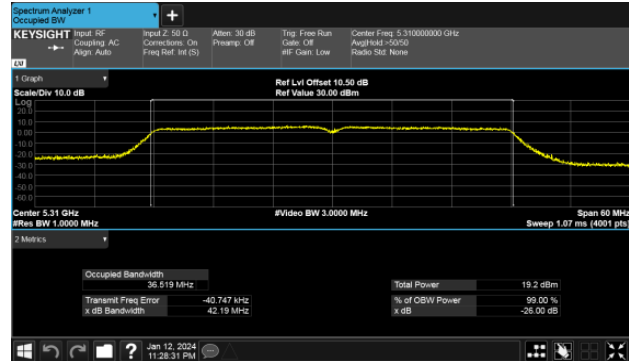
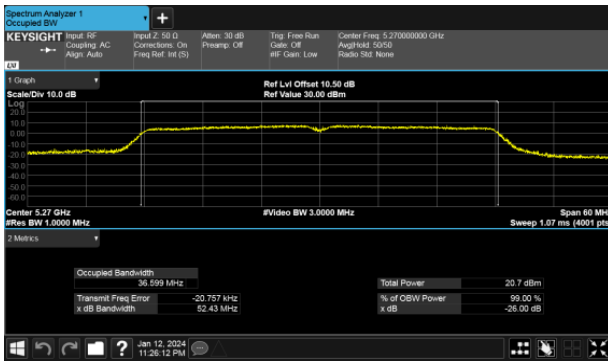
ANT B





99% Bandwidth
Modulation Type: 802.11ac VHT40 CH54
ANT A

Modulation Type: 802.11ac VHT40 CH62
ANT A



ANT B

ANT B

