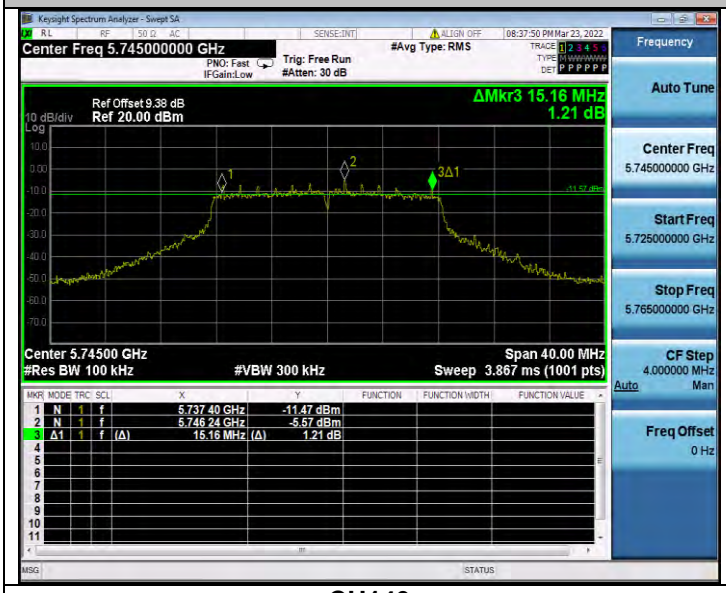
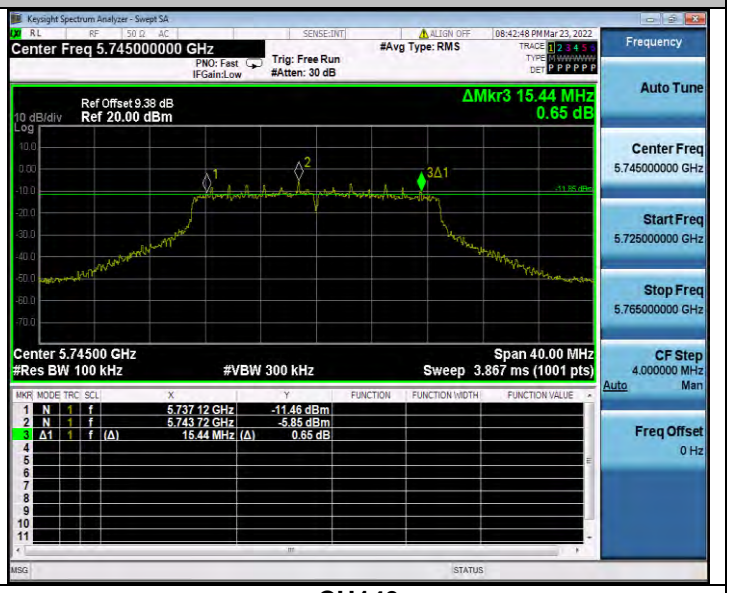
6dB Bandwidth

802.11a

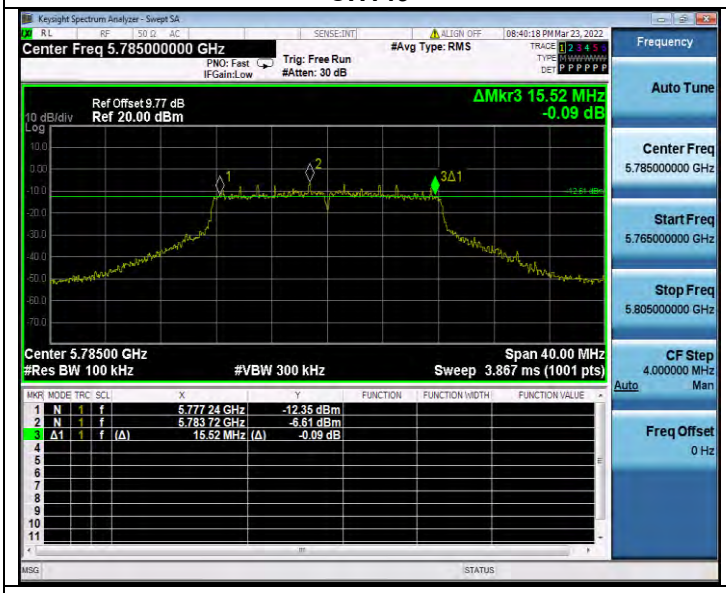


CH149

802.11n HT20

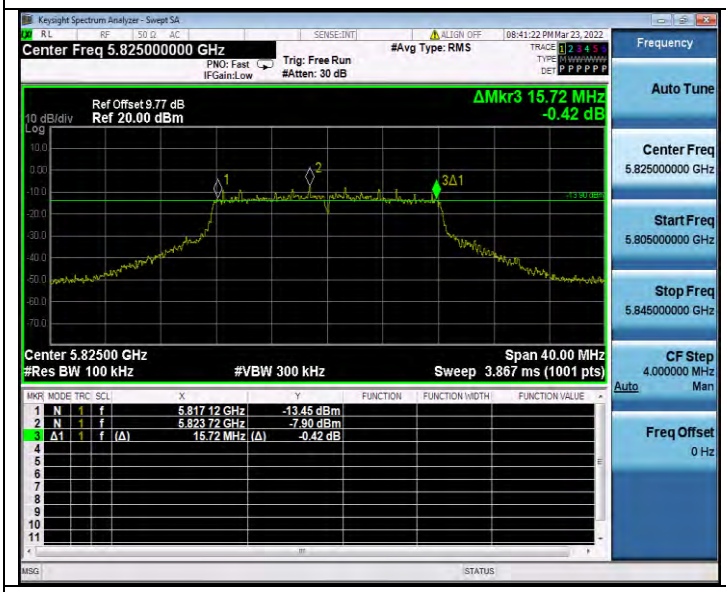


CH149

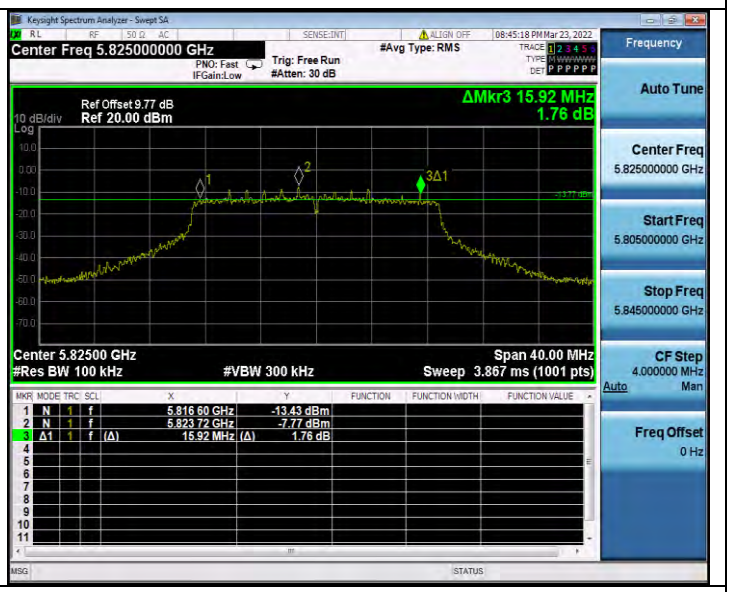


CH157

CH157



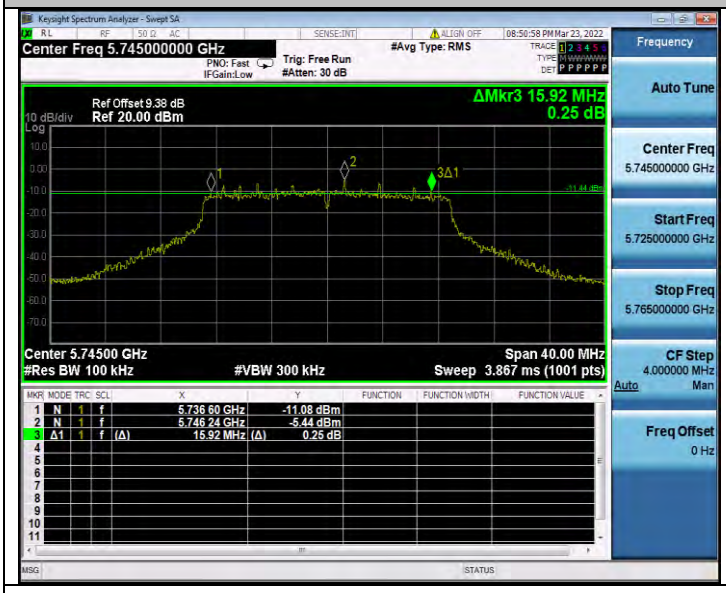
CH165



CH165

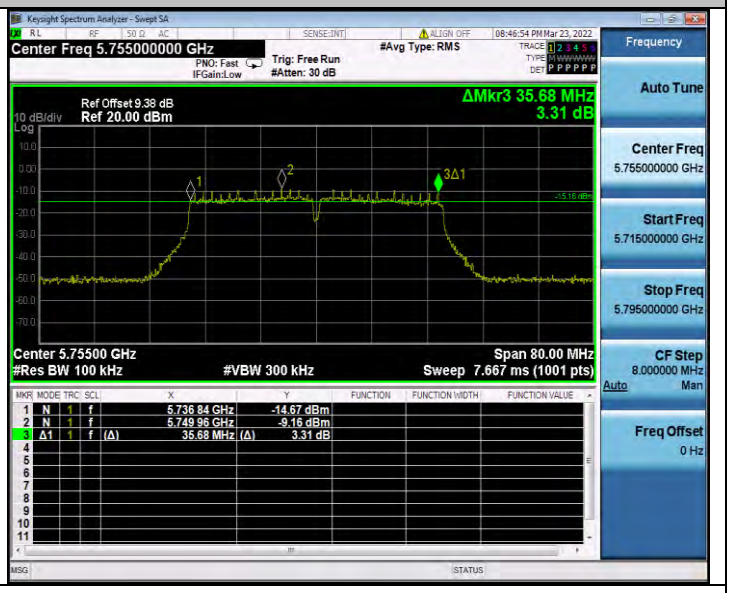
6dB Bandwidth

802.11ac20

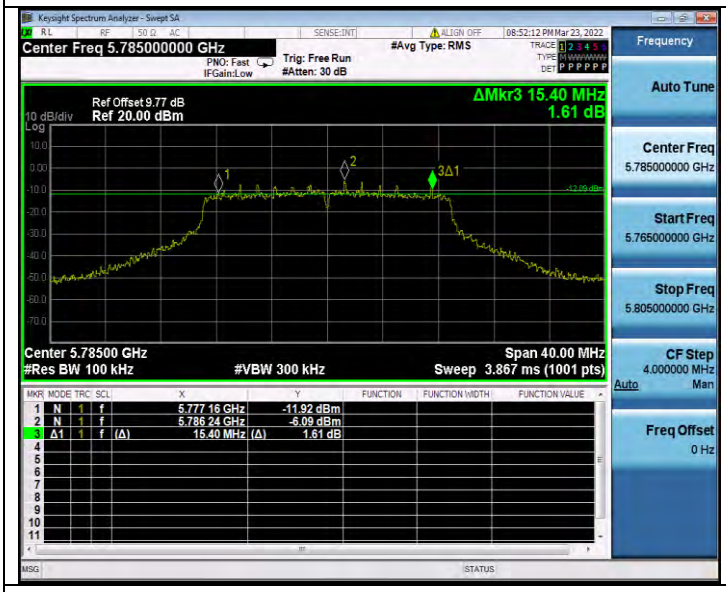


CH149

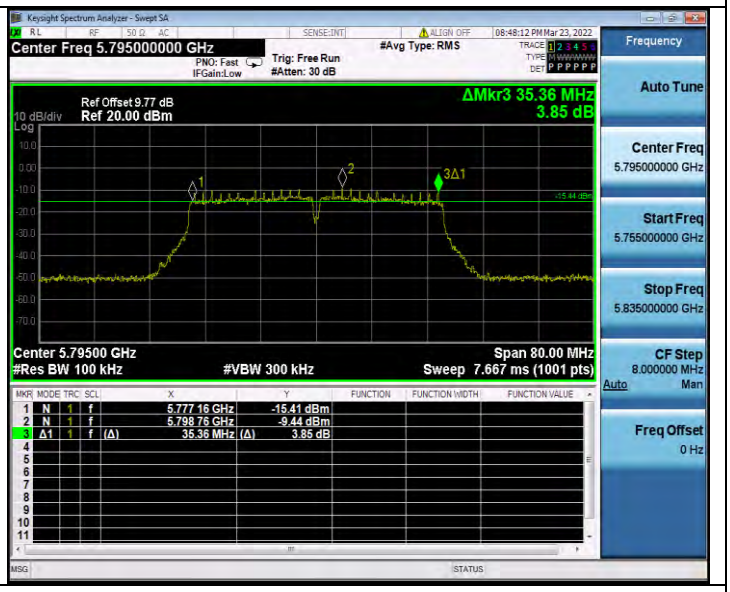
802.11n HT40



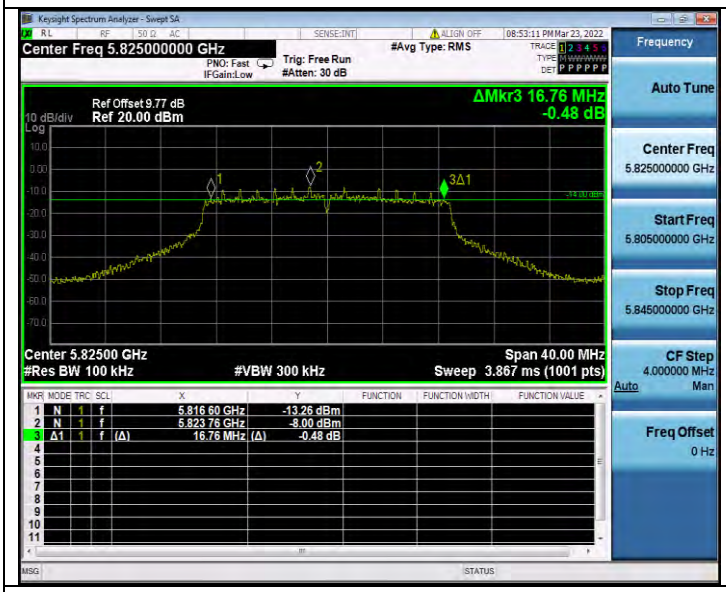
CH151



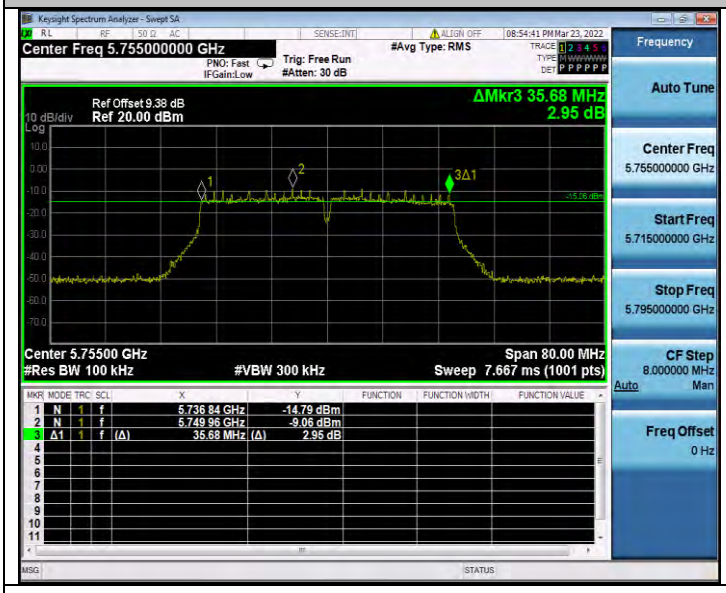
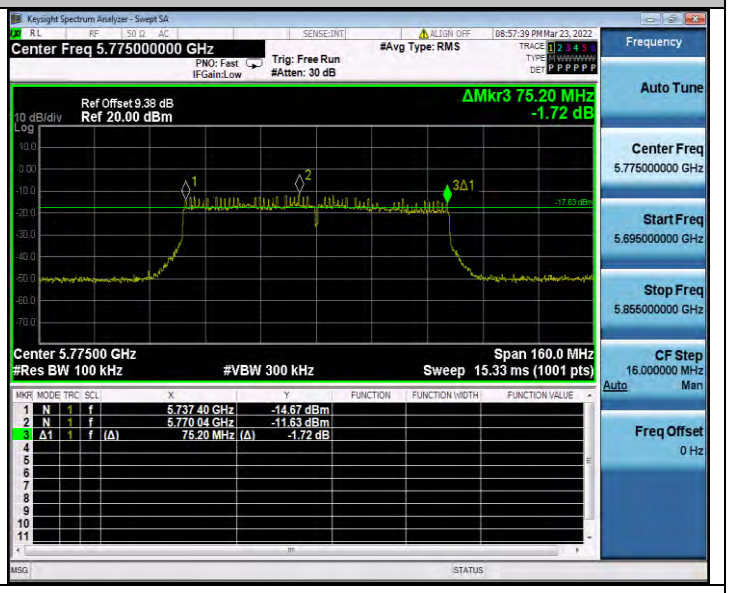
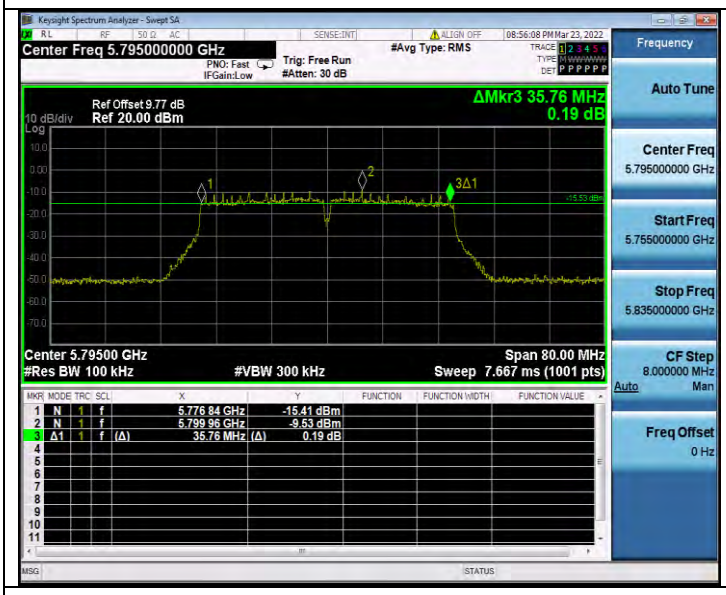
CH157



CH159

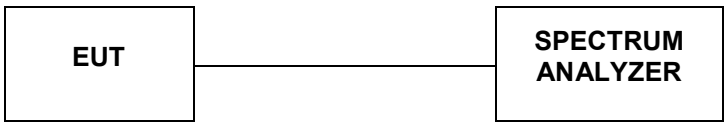


CH165

6dB Bandwidth	
802.11ac40	802.11ac80
	
CH151	CH155
	
CH159	

4.7. 26dBc Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

According to KDB789033 D02 General U-NII Test Procedures New Rules v02r01 for one of the following procedures may be used for Emission Bandwidth (EBW) measurement:

a. Set RBW = 220 kHz/430 kHz /820 kHz (approximately 1% of the emission bandwidth).
b. Set the video bandwidth (VBW) = 3* RBW)
c. Detector = Peak.
d. Trace mode = max hold.
e. Sweep = auto couple.
f. Allow the trace to stabilize
g. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

LIMIT

No Limits for 26dBc Bandwith

TEST RESULTS

Temperature	23.6℃	Humidity	55.7%
Test Engineer	Jenny Zeng	Configurations	IEEE 802.11a/n/ac

5150-5250MHz:

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	16.863	21.520	-	Pass
	40	16.835	21.200		
	48	16.830	22.920		
802.11nHT20	36	18.058	22.920	-	Pass
	40	18.042	22.720		
	48	18.020	22.000		
802.11n40	38	36.442	41.280	-	Pass
	46	36.478	41.360		
802.11ac20	36	18.099	22.120	-	Pass
	40	18.078	22.960		
	48	18.062	22.800		
802.11ac40	38	36.412	41.200	-	Pass
	46	36.417	41.120		
802.11ac80	42	75.779	86.880	-	Pass

5260-5320MHz:

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	52	17.344	22.880	-	Pass
	56	16.884	21.120		
	64	16.869	21.520		
802.11nHT20	52	18.029	22.200	-	Pass
	56	18.034	21.920		
	64	18.021	23.160		
802.11n40	54	36.449	41.520	-	Pass
	62	36.512	41.600		
802.11ac20	52	18.014	21.960	-	Pass
	56	18.042	22.480		
	64	18.042	22.240		
802.11ac40	54	36.383	41.680	-	Pass
	62	36.448	41.440		
802.11ac80	58	75.996	87.840	-	Pass

5500-5700MHz:

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	100	18.058	22.720	-	Pass
	120	18.024	22.520		
	140	18.013	21.880		
802.11nHT20	100	18.051	22.600	-	Pass
	120	18.051	21.960		
	140	18.020	22.240		
802.11n40	102	36.478	41.840	-	Pass
	118	36.482	42.160		
	134	36.360	41.280		
802.11ac20	100	39.576	23.080	-	Pass
	120	18.044	22.720		
	140	18.014	22.360		
802.11ac40	102	36.408	41.760	-	Pass
	118	36.431	41.280		
	134	36.370	41.440		
802.11ac80	106	75.733	84.640	-	Pass
	122	75.875	84.160		

5150-5250MHz:

99%Bandwidth	
802.11a	**802.11n HT20**
CH36	**CH36**
CH40	**CH40**
CH48	**CH48**

99%Bandwidth

802.11ac20

802.11n HT40

CH36

CH38

CH40

CH46

CH48

99%Bandwidth	
802.11ac40	802.11ac80
CH38	CH42
CH46	

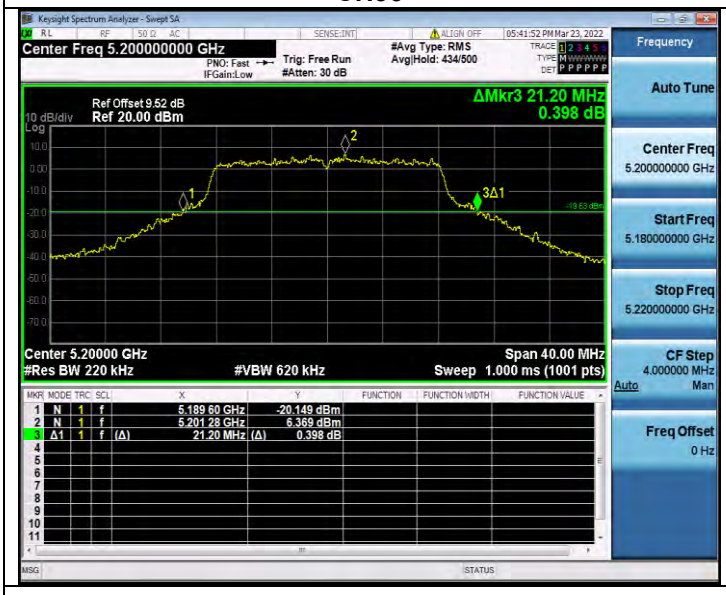
26dB Bandwidth

802.11a

CH36

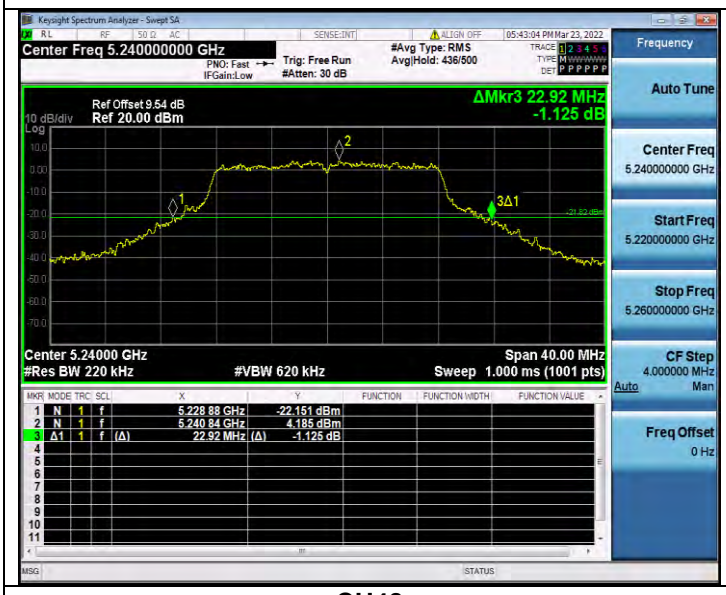
802.11n HT20

CH36



CH40

CH40



CH48

CH48

26dB Bandwidth

802.11ac20

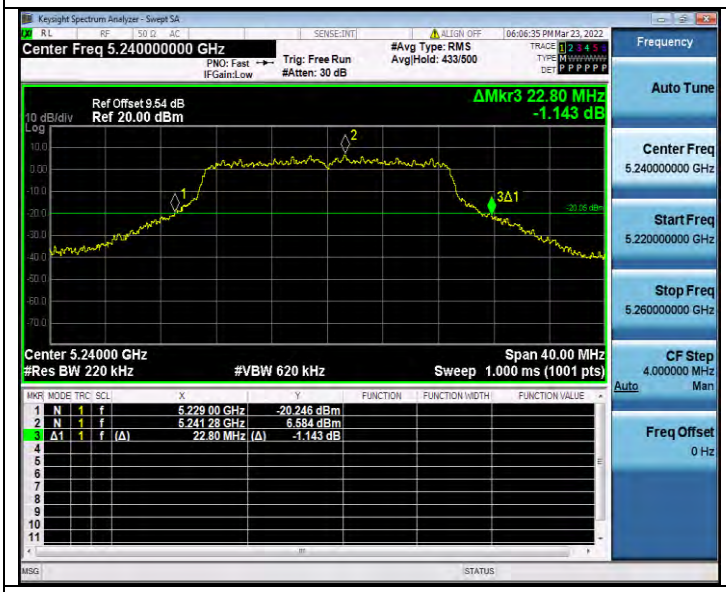
802.11n HT40

CH36

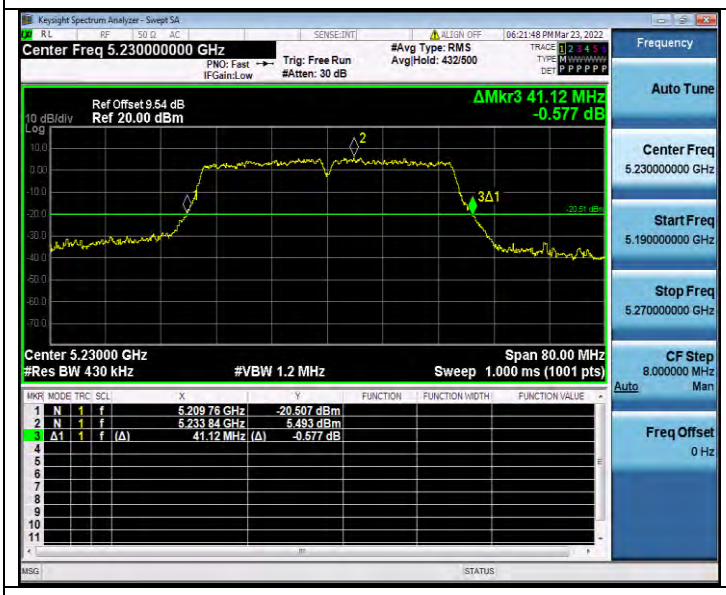
CH38

CH40

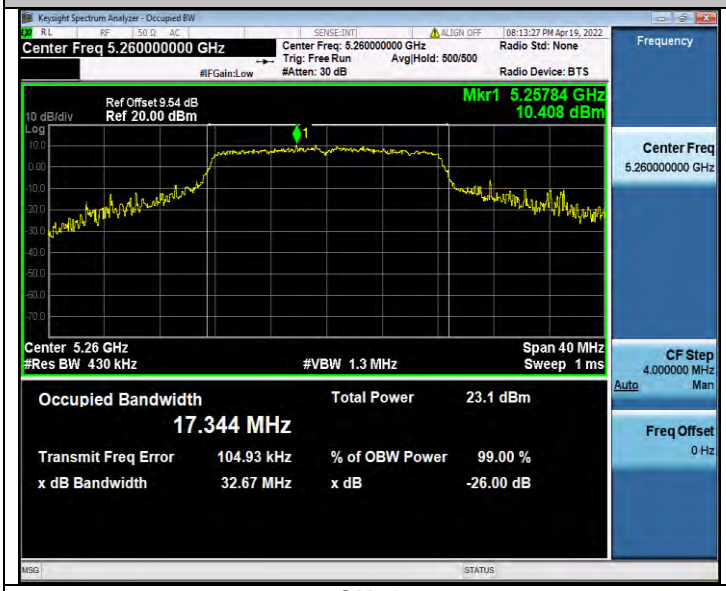
CH46



CH48

26dB Bandwidth	
802.11ac40	802.11ac80
CH38	CH42
	
CH46	

5260-5320MHz:

99%Bandwidth	
802.11a	**802.11n HT20**
	

| **CH52** | **CH52** |
| | |

| **CH56** | **CH56** |
| | |

| **CH64** | **CH64** |

99%Bandwidth

802.11ac20

CH52

802.11n HT40

CH54

CH56

CH62

CH64

99%Bandwidth	
802.11ac40	802.11ac80
CH54	CH58
CH62	

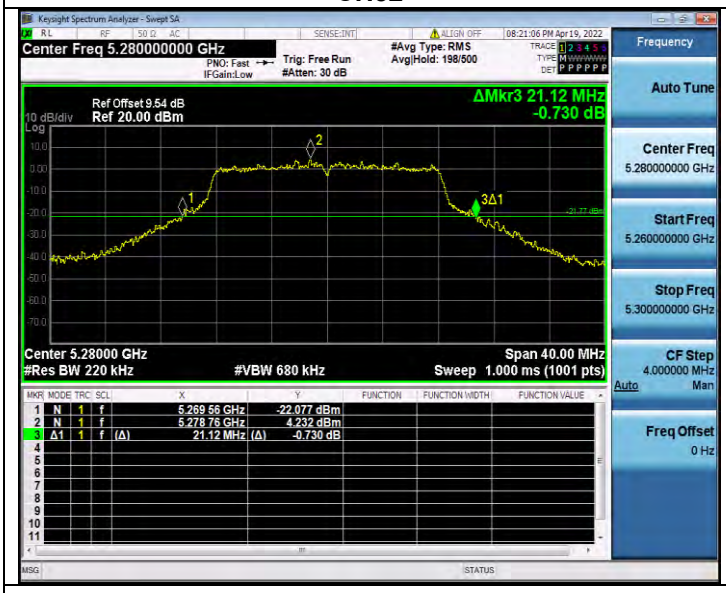
26dB Bandwidth

802.11a

CH52

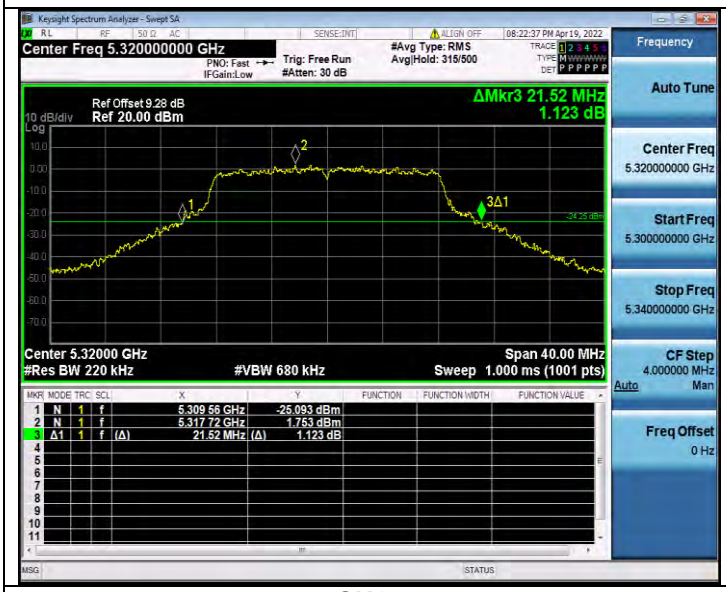
802.11n HT20

CH52



CH56

CH56

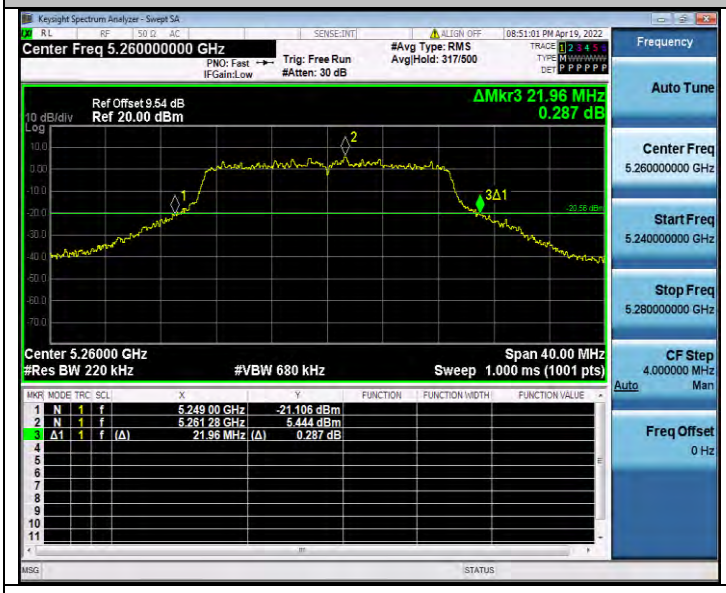


CH64

CH64

26dB Bandwidth

802.11ac20



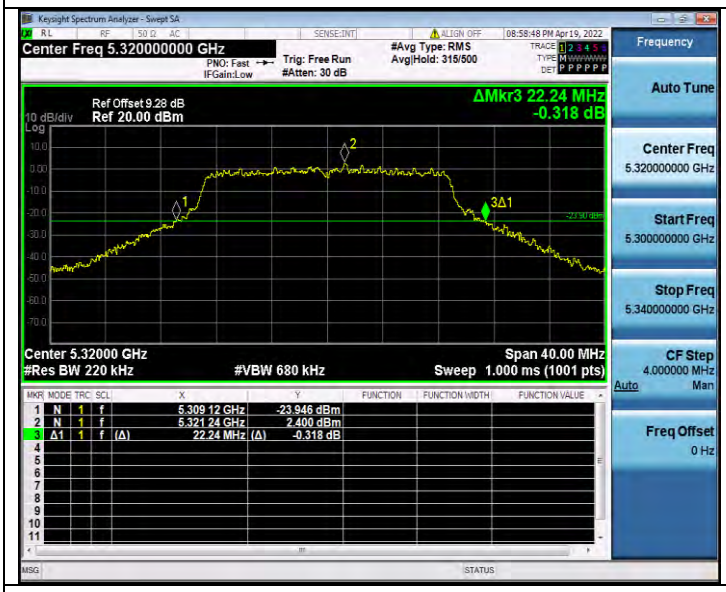
CH52

802.11n HT40

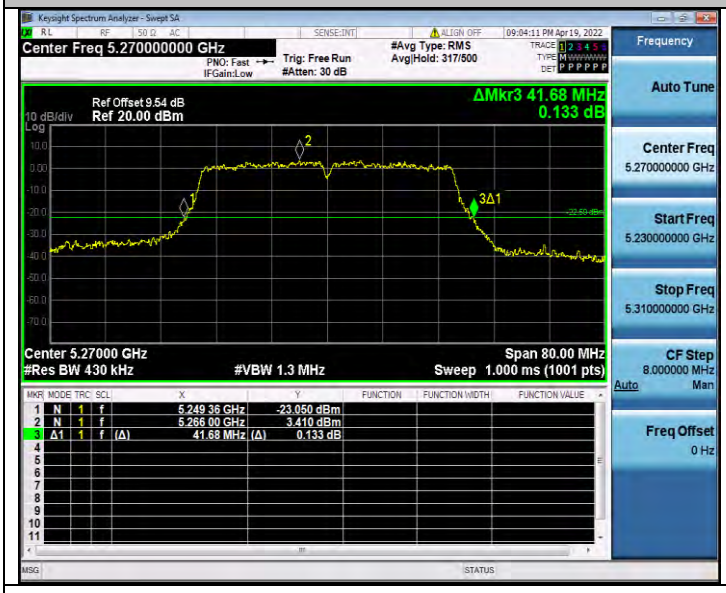
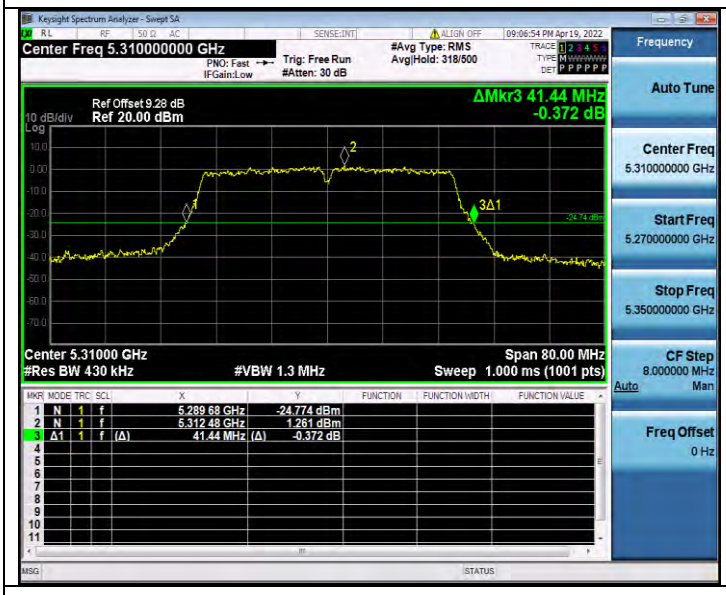
CH54

CH56

CH62



CH64

26dB Bandwidth	
802.11ac40	802.11ac80
	
CH54	CH58
	
CH62	

5500-5700MHz:

99%Bandwidth	
802.11a	**802.11n HT20**
CH100	**CH100**
CH120	**CH120**
CH140	**CH140**

99%Bandwidth

802.11ac20

CH100

802.11n HT40

CH102

CH120

CH118

CH140

CH134

99%Bandwidth

802.11ac40

CH102

802.11ac80

CH106

CH118

CH122

CH134

26dB Bandwidth

802.11a

CH100

802.11n HT20

CH100

CH120

CH120

CH140

CH140