

Annex C. Conducted Test Results

Maximum Conducted Output Power Measurement

Test Mode		Mode 2: IEEE 802.11a Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5180.0	6 M	15.66	0.037	≤ 24.00
5200.0		15.61	0.036	≤ 24.00
5220.0		15.38	0.035	≤ 24.00
5240.0		15.22	0.033	≤ 24.00
5260.0		15.32	0.034	≤ 24.00
5280.0		15.26	0.034	≤ 24.00
5300.0		15.25	0.033	≤ 24.00
5320.0		15.35	0.034	≤ 24.00
5500.0		15.54	0.036	≤ 24.00
5520.0		15.72	0.037	≤ 24.00
5540.0		15.72	0.037	≤ 24.00
5560.0		15.69	0.037	≤ 24.00
5580.0		15.54	0.036	≤ 24.00
5660.0		15.47	0.035	≤ 24.00
5680.0		15.15	0.033	≤ 24.00
5700.0		15.23	0.033	≤ 24.00
5745.0		15.64	0.037	≤ 30.00
5765.0		15.57	0.036	≤ 30.00
5785.0		15.41	0.035	≤ 30.00
5805.0		15.68	0.037	≤ 30.00
5825.0		15.61	0.036	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 2: IEEE 802.11a Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-1		Limit (dBm)
		(dBm)	(W)	
5180.0	6 M	15.89	0.039	≤ 24.00
5200.0		15.62	0.036	≤ 24.00
5220.0		15.63	0.037	≤ 24.00
5240.0		15.54	0.036	≤ 24.00
5260.0		15.41	0.035	≤ 24.00
5280.0		15.57	0.036	≤ 24.00
5300.0		15.51	0.036	≤ 24.00
5320.0		15.71	0.037	≤ 24.00
5500.0		15.66	0.037	≤ 24.00
5520.0		15.63	0.037	≤ 24.00
5540.0		15.59	0.036	≤ 24.00
5560.0		15.81	0.038	≤ 24.00
5580.0		15.82	0.038	≤ 24.00
5660.0		16.04	0.040	≤ 24.00
5680.0		16.14	0.041	≤ 24.00
5700.0		16.11	0.041	≤ 24.00
5745.0		16.54	0.045	≤ 30.00
5765.0		16.31	0.043	≤ 30.00
5785.0		16.04	0.040	≤ 30.00
5805.0		16.24	0.042	≤ 30.00
5825.0		15.97	0.040	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 2: IEEE 802.11a Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0+1		Limit (dBm)
		(dBm)	(W)	
5180.0	6 M	18.79	0.076	≤ 24.00
5200.0		18.63	0.073	≤ 24.00
5220.0		18.52	0.071	≤ 24.00
5240.0		18.39	0.069	≤ 24.00
5260.0		18.38	0.069	≤ 24.00
5280.0		18.43	0.070	≤ 24.00
5300.0		18.39	0.069	≤ 24.00
5320.0		18.54	0.072	≤ 24.00
5500.0		18.61	0.073	≤ 24.00
5520.0		18.69	0.074	≤ 24.00
5540.0		18.67	0.074	≤ 24.00
5560.0		18.76	0.075	≤ 24.00
5580.0		18.69	0.074	≤ 24.00
5660.0		18.77	0.075	≤ 24.00
5680.0		18.68	0.074	≤ 24.00
5700.0		18.70	0.074	≤ 24.00
5745.0		19.12	0.082	≤ 30.00
5765.0		18.97	0.079	≤ 30.00
5785.0		18.75	0.075	≤ 30.00
5805.0		18.98	0.079	≤ 30.00
5825.0		18.80	0.076	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5180.0	13 M	15.61	0.036	≤ 24.00
5200.0		15.59	0.036	≤ 24.00
5220.0		15.26	0.034	≤ 24.00
5240.0		15.19	0.033	≤ 24.00
5260.0		14.98	0.031	≤ 24.00
5280.0		15.14	0.033	≤ 24.00
5300.0		15.02	0.032	≤ 24.00
5320.0		15.15	0.033	≤ 24.00
5500.0		15.56	0.036	≤ 24.00
5520.0		15.54	0.036	≤ 24.00
5540.0		15.32	0.034	≤ 24.00
5560.0		15.61	0.036	≤ 24.00
5580.0		15.13	0.033	≤ 24.00
5660.0		15.01	0.032	≤ 24.00
5680.0		15.22	0.033	≤ 24.00
5700.0		15.31	0.034	≤ 24.00
5745.0		15.46	0.035	≤ 30.00
5765.0		15.41	0.035	≤ 30.00
5785.0		15.52	0.036	≤ 30.00
5805.0		15.47	0.035	≤ 30.00
5825.0		15.44	0.035	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-1		Limit (dBm)
		(dBm)	(W)	
5180.0	13 M	15.34	0.034	≤ 24.00
5200.0		15.61	0.036	≤ 24.00
5220.0		15.41	0.035	≤ 24.00
5240.0		15.34	0.034	≤ 24.00
5260.0		15.61	0.036	≤ 24.00
5280.0		15.35	0.034	≤ 24.00
5300.0		15.51	0.036	≤ 24.00
5320.0		15.52	0.036	≤ 24.00
5500.0		15.82	0.038	≤ 24.00
5520.0		15.45	0.035	≤ 24.00
5540.0		15.64	0.037	≤ 24.00
5560.0		15.71	0.037	≤ 24.00
5580.0		15.44	0.035	≤ 24.00
5660.0		16.18	0.041	≤ 24.00
5680.0		16.13	0.041	≤ 24.00
5700.0		16.25	0.042	≤ 24.00
5745.0		16.23	0.042	≤ 30.00
5765.0		16.31	0.043	≤ 30.00
5785.0		16.25	0.042	≤ 30.00
5805.0		16.11	0.041	≤ 30.00
5825.0		15.94	0.039	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0+1		Limit (dBm)
		(dBm)	(W)	
5180.0	13 M	18.49	0.071	≤ 24.00
5200.0		18.61	0.073	≤ 24.00
5220.0		18.35	0.068	≤ 24.00
5240.0		18.28	0.067	≤ 24.00
5260.0		18.32	0.068	≤ 24.00
5280.0		18.26	0.067	≤ 24.00
5300.0		18.28	0.067	≤ 24.00
5320.0		18.35	0.068	≤ 24.00
5500.0		18.70	0.074	≤ 24.00
5520.0		18.51	0.071	≤ 24.00
5540.0		18.49	0.071	≤ 24.00
5560.0		18.67	0.074	≤ 24.00
5580.0		18.30	0.068	≤ 24.00
5660.0		18.64	0.073	≤ 24.00
5680.0		18.71	0.074	≤ 24.00
5700.0		18.82	0.076	≤ 24.00
5745.0		18.87	0.077	≤ 30.00
5765.0		18.89	0.078	≤ 30.00
5785.0		18.91	0.078	≤ 30.00
5805.0		18.81	0.076	≤ 30.00
5825.0		18.71	0.074	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5190.0	27 M	15.31	0.034	≤ 24.00
5230.0		15.34	0.034	≤ 24.00
5270.0		15.36	0.034	≤ 24.00
5310.0		13.24	0.021	≤ 24.00
5510.0		15.99	0.040	≤ 24.00
5550.0		15.82	0.038	≤ 24.00
5670.0		15.71	0.037	≤ 24.00
5755.0		15.94	0.039	≤ 30.00
5795.0		15.89	0.039	≤ 30.00
Frequency (MHz)	Data Rate	ANT-1		Limit (dBm)
		(dBm)	(W)	
5190.0	27 M	15.44	0.035	≤ 24.00
5230.0		15.97	0.040	≤ 24.00
5270.0		15.91	0.039	≤ 24.00
5310.0		13.34	0.022	≤ 24.00
5510.0		16.23	0.042	≤ 24.00
5550.0		16.11	0.041	≤ 24.00
5670.0		16.42	0.044	≤ 24.00
5755.0		16.92	0.049	≤ 30.00
5795.0		16.72	0.047	≤ 30.00
Frequency (MHz)	Data Rate	ANT-0+1		Limit (dBm)
		(dBm)	(W)	
5190.0	27 M	18.39	0.069	≤ 24.00
5230.0		18.68	0.074	≤ 24.00
5270.0		18.65	0.073	≤ 24.00
5310.0		16.30	0.043	≤ 24.00
5510.0		19.12	0.082	≤ 24.00
5550.0		18.98	0.079	≤ 24.00
5670.0		19.09	0.081	≤ 24.00
5755.0		19.47	0.088	≤ 30.00
5795.0		19.34	0.086	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5210.0	58.6 M	14.91	0.031	≤ 24.00
5290.0		12.19	0.017	≤ 24.00
5530.0		15.61	0.036	≤ 24.00
5775.0		15.76	0.038	≤ 30.00
Frequency (MHz)	Data Rate	ANT-1		Limit (dBm)
		(dBm)	(W)	
5210.0	58.6 M	15.04	0.032	≤ 24.00
5290.0		12.72	0.019	≤ 24.00
5530.0		15.32	0.034	≤ 24.00
5775.0		16.26	0.042	≤ 30.00
Frequency (MHz)	Data Rate	ANT-0+1		Limit (dBm)
		(dBm)	(W)	
5210.0	58.6 M	17.99	0.063	≤ 24.00
5290.0		15.47	0.035	≤ 24.00
5530.0		18.48	0.070	≤ 24.00
5775.0		19.03	0.080	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.



26 dB RF Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode
Frequency (MHz)	ANT-0
5180.0	25.957
5200.0	25.924
5240.0	24.908
5260.0	24.786
5280.0	26.054
5320.0	24.261
5500.0	24.481
5560.0	24.793
5700.0	25.673
Frequency (MHz)	ANT-1
5180.0	23.373
5200.0	23.733
5240.0	23.701
5260.0	22.216
5280.0	23.104
5320.0	23.646
5500.0	22.622
5560.0	23.101
5700.0	25.420



Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode
Frequency (MHz)	ANT-0
5180.0	25.802
5200.0	26.569
5240.0	25.637
5260.0	25.665
5280.0	25.822
5320.0	25.887
5500.0	26.007
5560.0	25.221
5700.0	25.426
Frequency (MHz)	ANT-1
5180.0	25.854
5200.0	25.076
5240.0	24.408
5260.0	24.268
5280.0	25.688
5320.0	25.617
5500.0	26.513
5560.0	25.918
5700.0	25.397

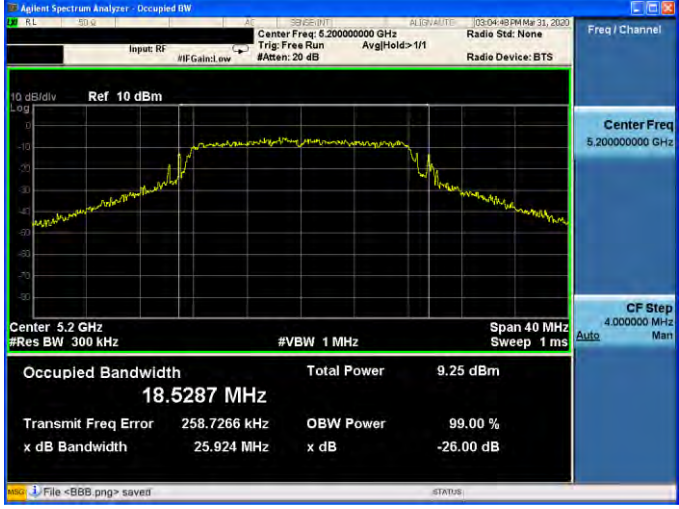


Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode
Frequency (MHz)	ANT-0
5190.0	47.995
5230.0	46.708
5270.0	51.383
5310.0	49.390
5510.0	48.392
5550.0	50.924
5670.0	48.178
Frequency (MHz)	ANT-1
5190.0	48.662
5230.0	49.769
5270.0	49.011
5310.0	48.883
5510.0	50.949
5550.0	51.147
5670.0	50.437

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode
Frequency (MHz)	ANT-0
5210.0	104.876
5290.0	106.843
5530.0	104.943
Frequency (MHz)	ANT-1
5210.0	106.446
5290.0	107.321
5530.0	105.804

■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX Mode_ANT-0

CH36	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.18000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input: RF #IF Gain: Low #Att: 20 dB Ref 10 dBm Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 18.1538 MHz Total Power 9.62 dBm Transmit Freq Error 87.9264 kHz OBW Power 99.00 % x dB Bandwidth 25.957 MHz x dB -26.00 dB File <BBB.png> saved
CH40	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.20000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input: RF #IF Gain: Low #Att: 20 dB Ref 10 dBm Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 18.5287 MHz Total Power 9.25 dBm Transmit Freq Error 258.7266 kHz OBW Power 99.00 % x dB Bandwidth 25.924 MHz x dB -26.00 dB File <BBB.png> saved
CH48	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.24000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input: RF #IF Gain: Low #Att: 20 dB Ref 10 dBm Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 18.2711 MHz Total Power 8.97 dBm Transmit Freq Error -251.2949 kHz OBW Power 99.00 % x dB Bandwidth 24.908 MHz x dB -26.00 dB File <BBB.png> saved

Mode 2: IEEE 802.11a Continuous TX Mode_ANT-0

CH52



CH56



CH64





Mode 2: IEEE 802.11a Continuous TX Mode_ANT-0

CH100



CH112



CH140



Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

CH36



CH40



CH48





Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

CH52



CH56



CH64



Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

CH100



CH112

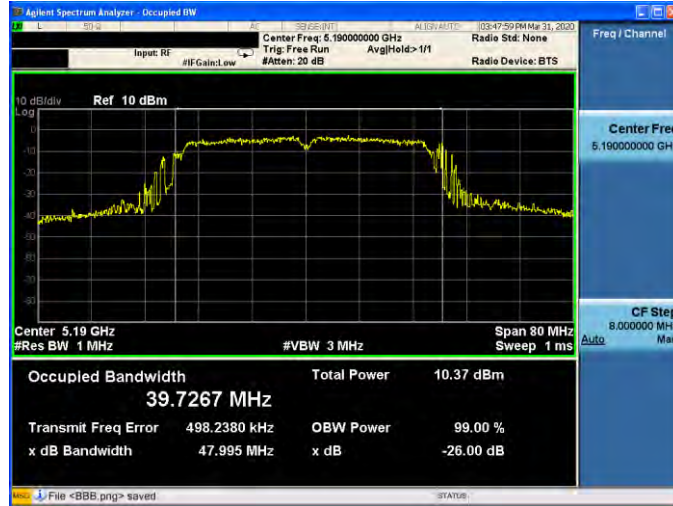


CH140

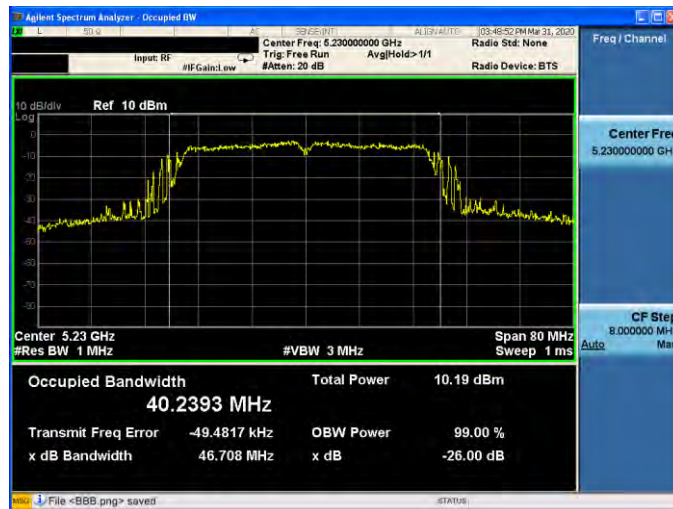


Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

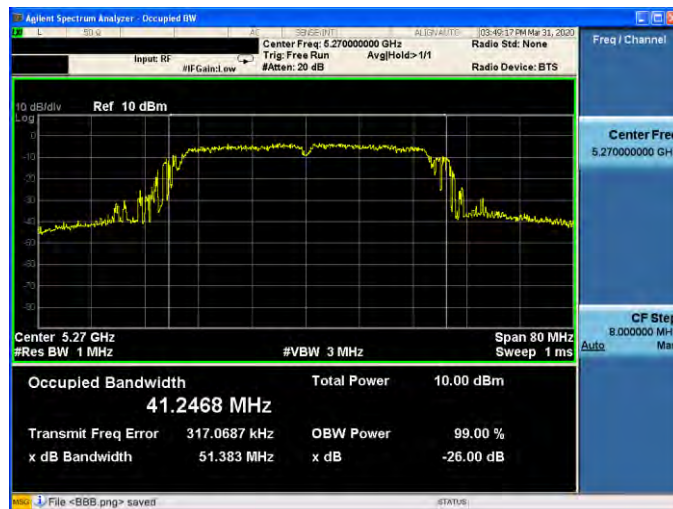
CH38



CH46



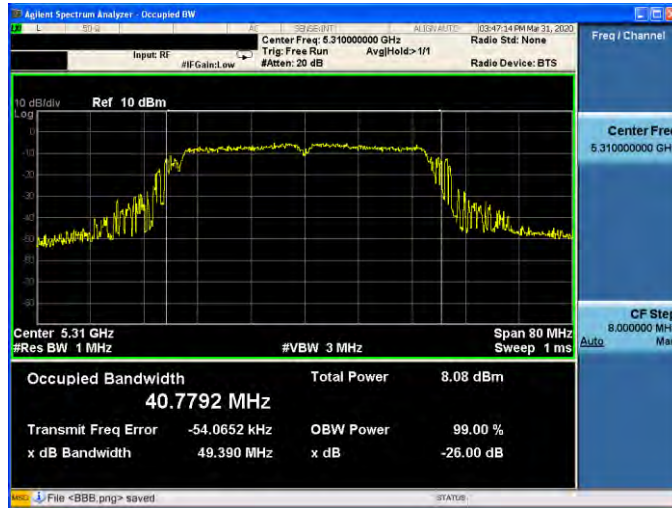
CH54





Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH62

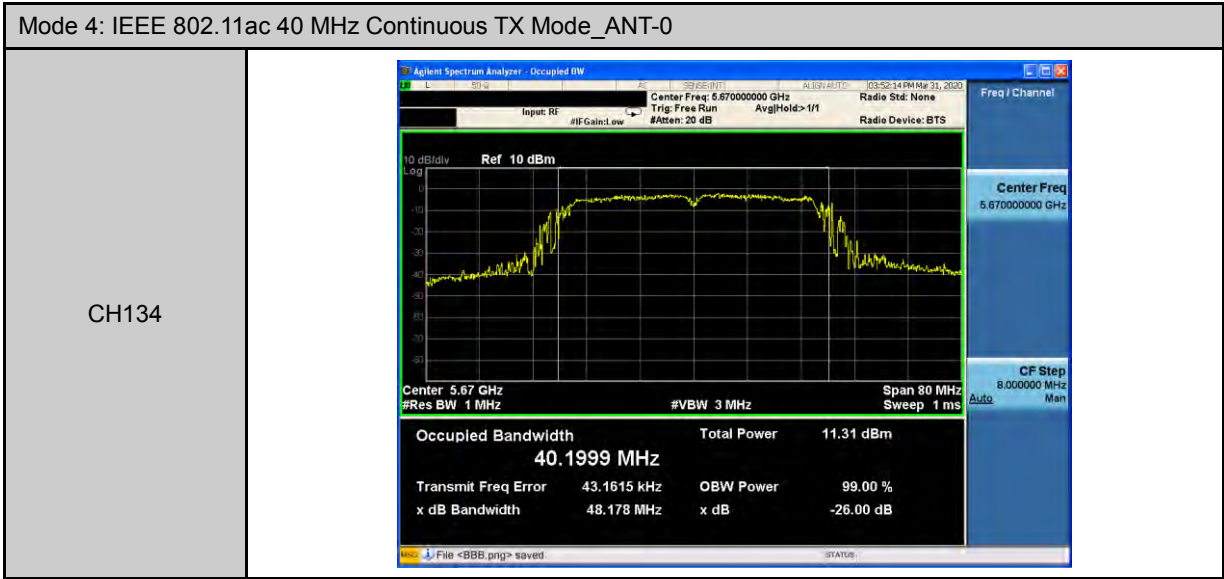


CH102



CH110

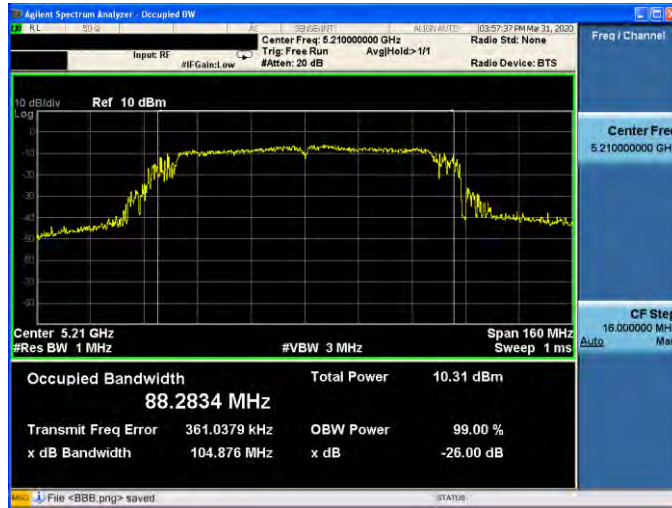






Mode 5: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-0

CH42



CH58



CH106



Mode 2: IEEE 802.11a Continuous TX Mode_ANT-1

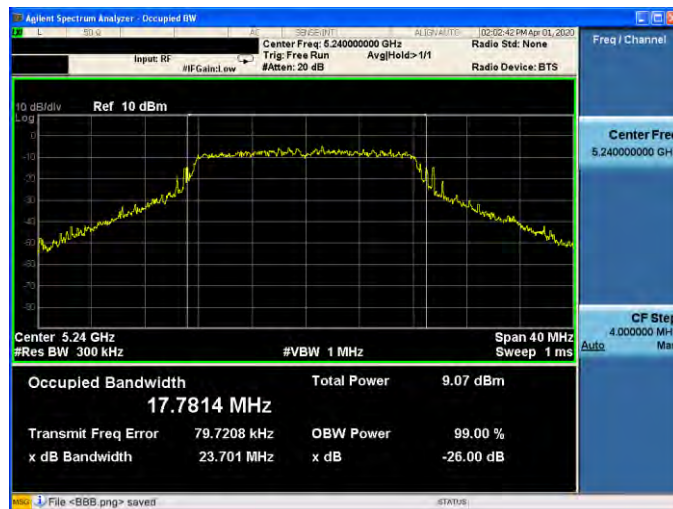
CH36



CH40



CH48



Mode 2: IEEE 802.11a Continuous TX Mode_ANT-1

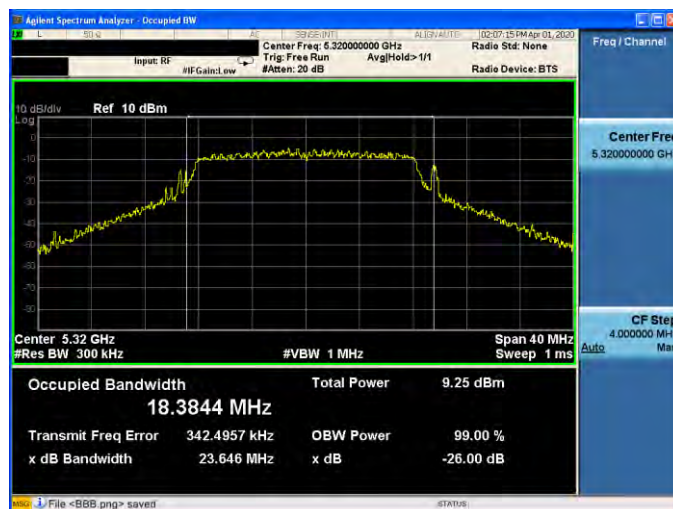
CH52



CH56



CH64



Mode 2: IEEE 802.11a Continuous TX Mode_ANT-1

CH100



CH112



CH140



Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

CH36



CH40



CH48



Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

CH52



CH56



CH64





Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

CH100



CH112

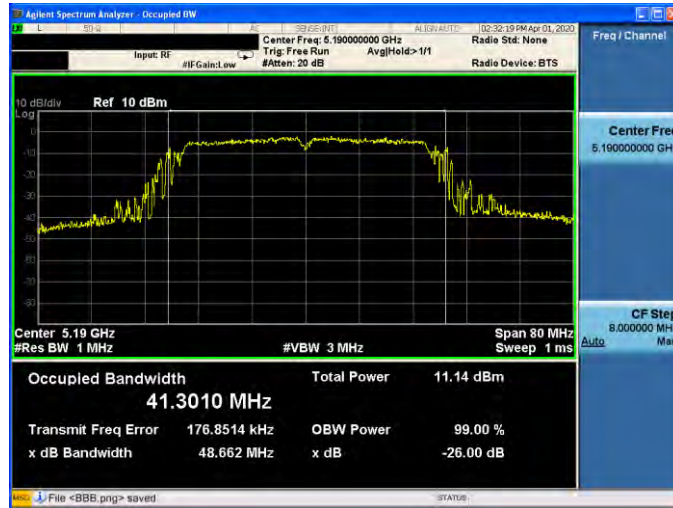


CH140

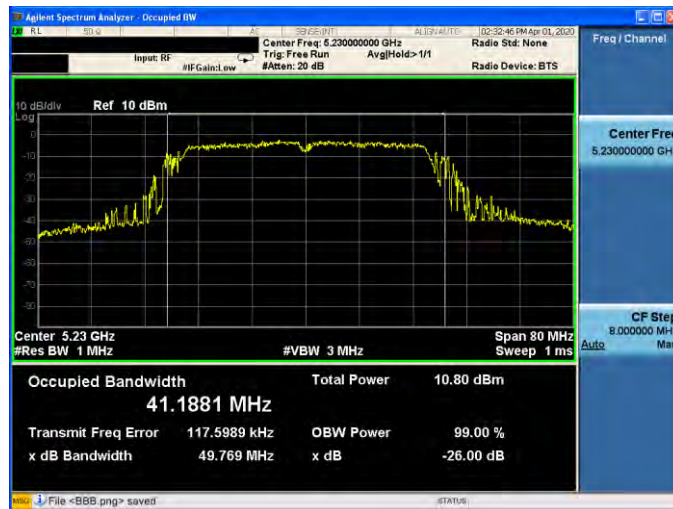


Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

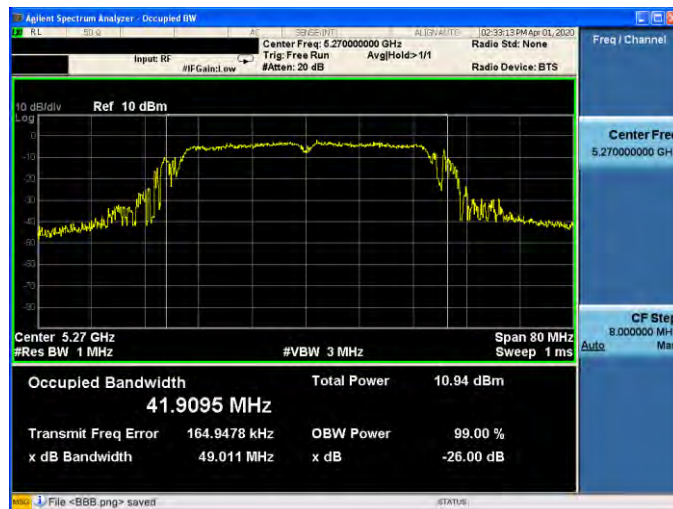
CH38



CH46

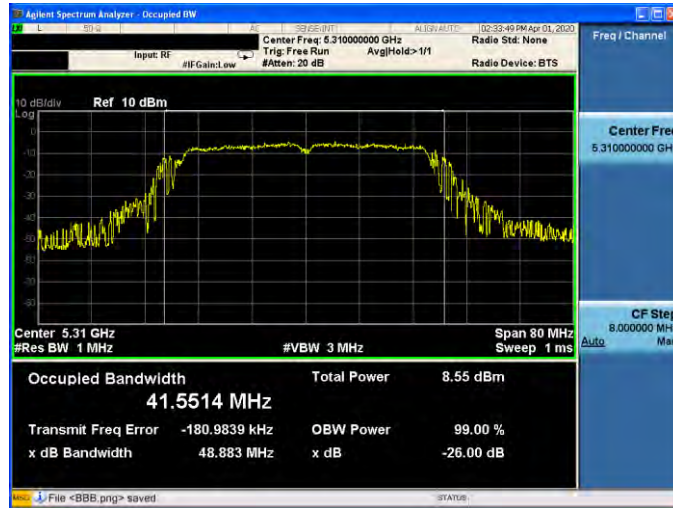


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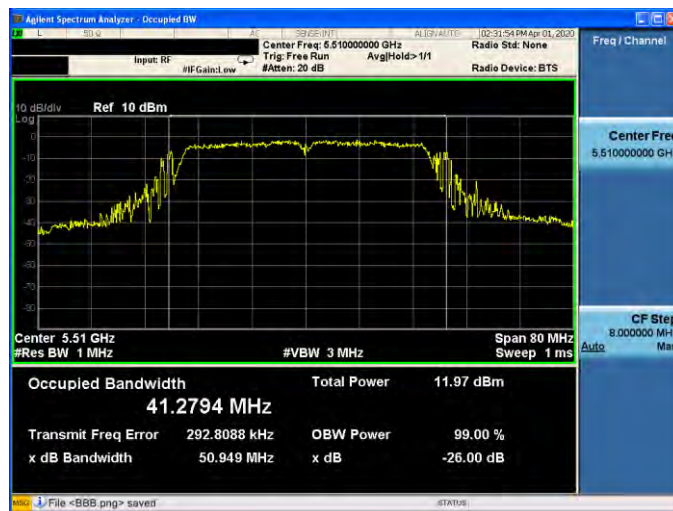


Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

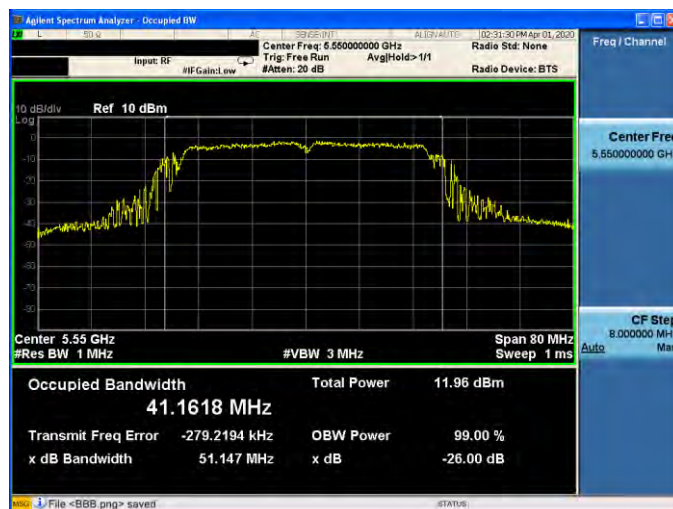
CH62

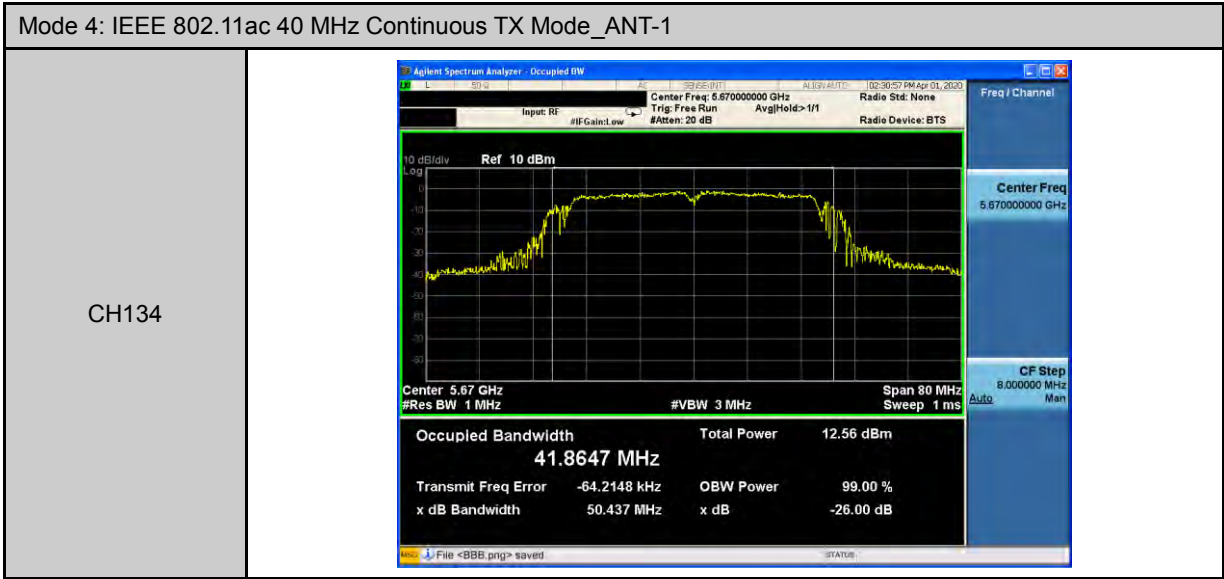


CH102



CH110





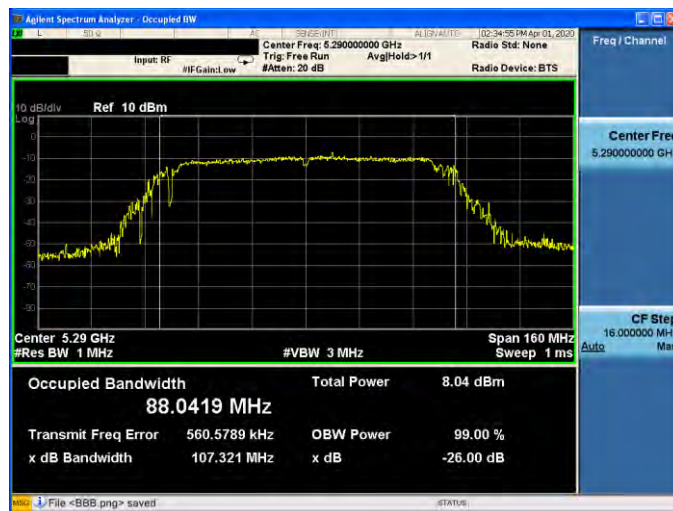


Mode 5: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1

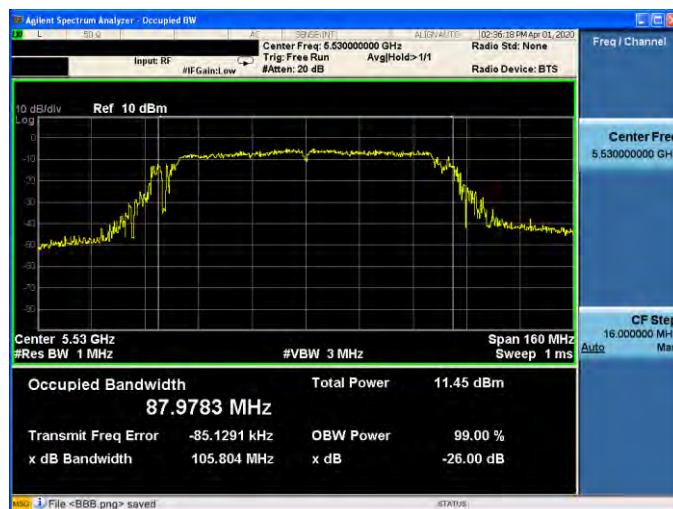
CH42



CH58



CH106



6 dB RF Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5745.0	15145	≥ 500
5785.0	16334	≥ 500
5825.0	16325	≥ 500
Frequency (MHz)	ANT-1	Limit (kHz)
5745.0	15281	≥ 500
5785.0	16299	≥ 500
5825.0	15368	≥ 500

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5745.0	15330	≥ 500
5785.0	15098	≥ 500
5825.0	15341	≥ 500
Frequency (MHz)	ANT-1	Limit (kHz)
5745.0	16180	≥ 500
5785.0	15144	≥ 500
5825.0	16955	≥ 500

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5755.0	35179	≥ 500
5795.0	35703	≥ 500
Frequency (MHz)	ANT-1	Limit (kHz)
5755.0	36332	≥ 500
5795.0	35355	≥ 500

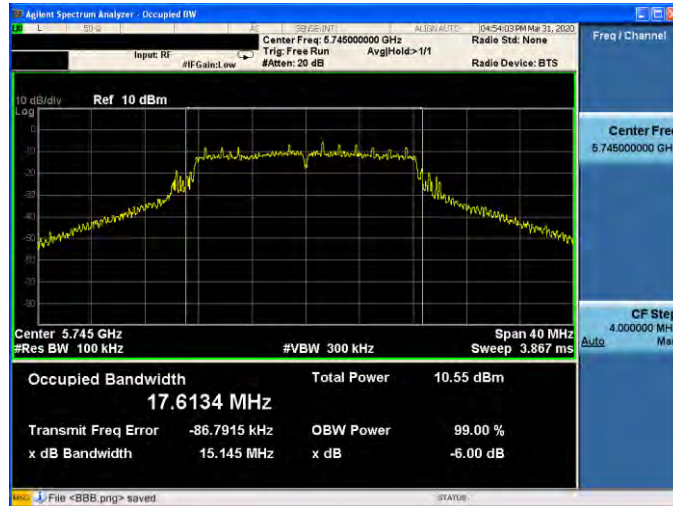


Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5775.0	75853	≥ 500
Frequency (MHz)	ANT-1	Limit (kHz)
5775.0	75223	≥ 500

■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX Mode_ANT-0

CH149



CH157



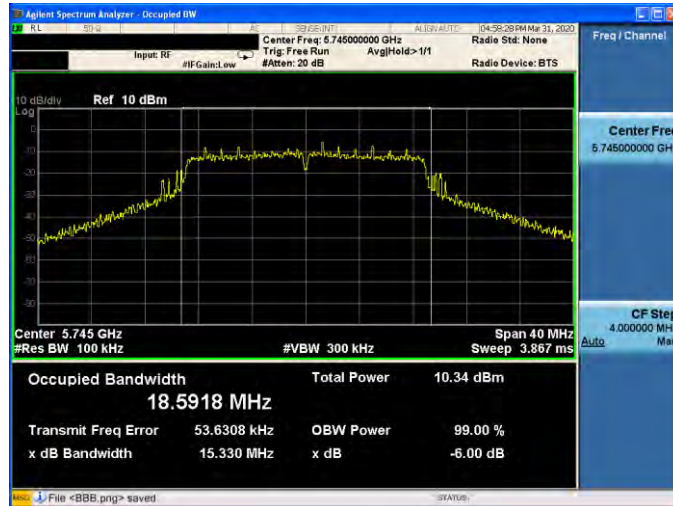
CH165



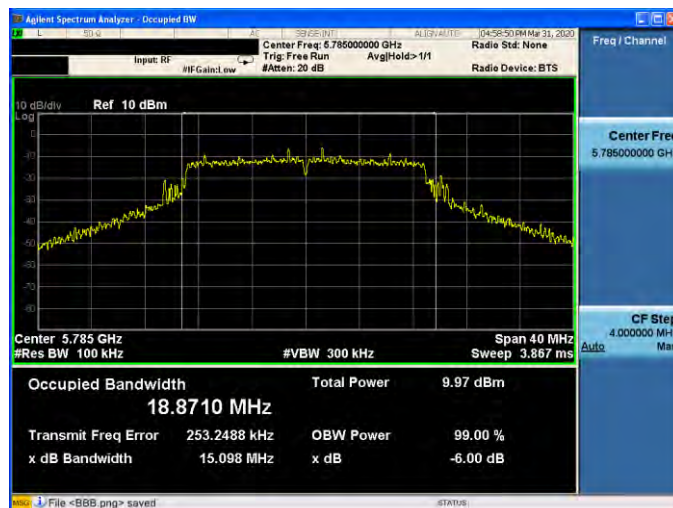


Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

CH149



CH157



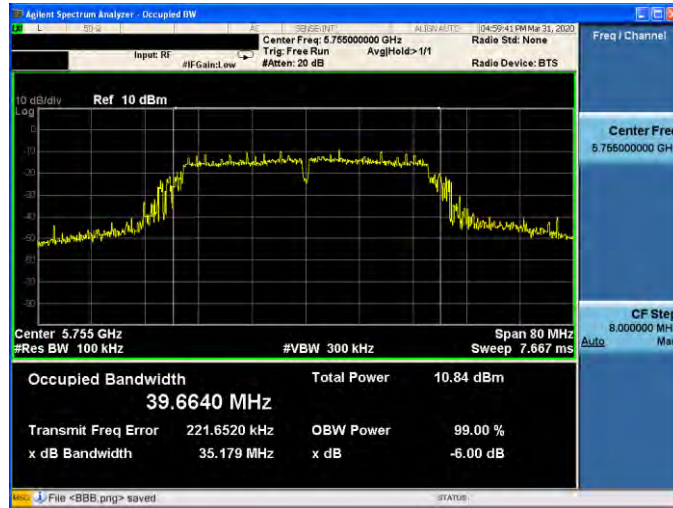
CH165



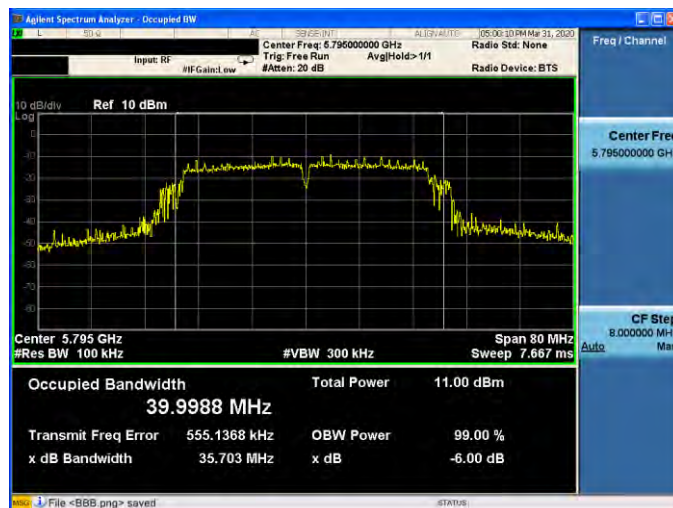


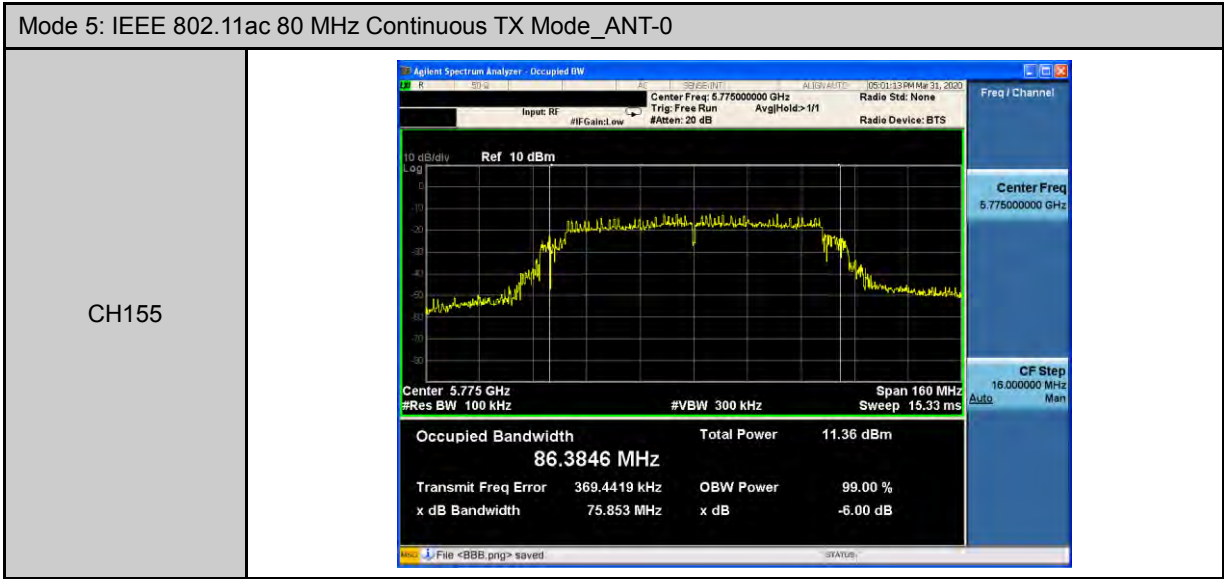
Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

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Mode 2: IEEE 802.11a Continuous TX Mode_ANT-1

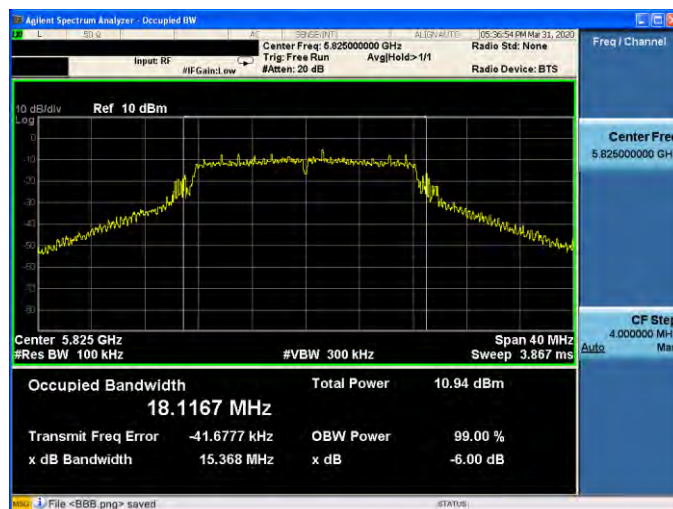
CH149



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Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

CH149



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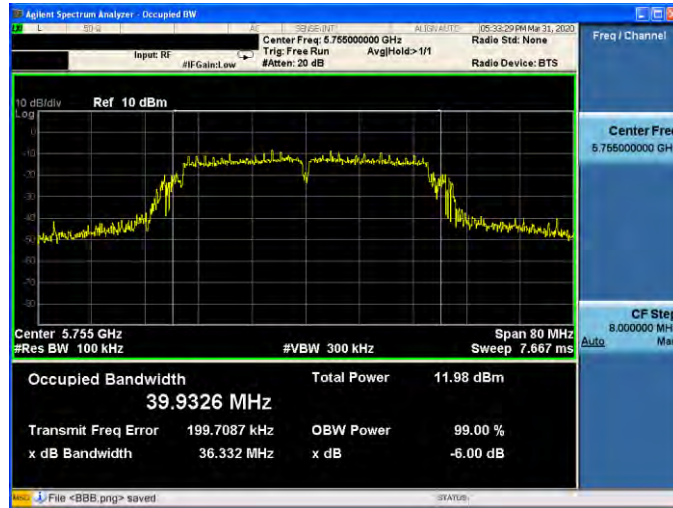
CH165



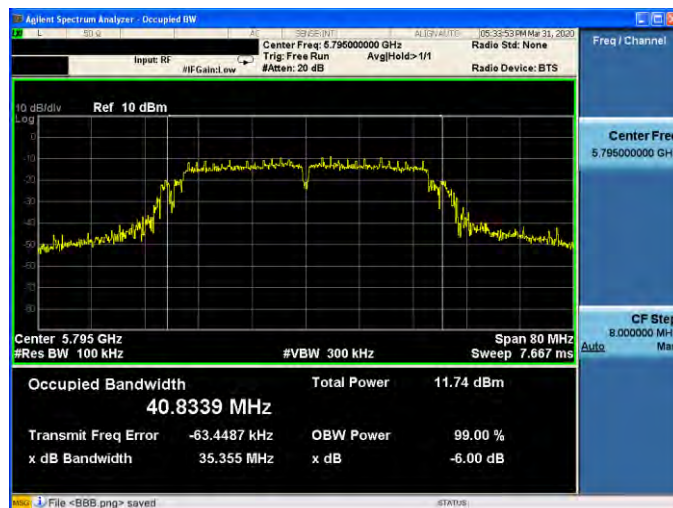


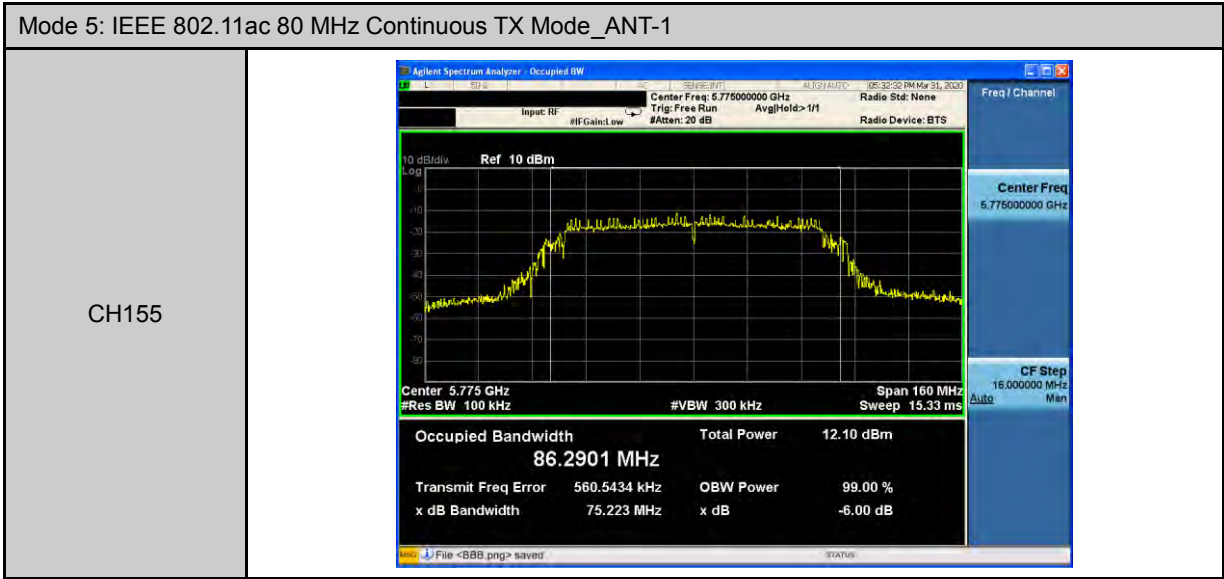
Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-11

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Maximum Power Spectral Density Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180.0	3.835	0.166	4.001	≤ 11
5200.0	3.274	0.166	3.440	
5240.0	2.723	0.166	2.889	
5260.0	2.594	0.166	2.760	
5280.0	2.737	0.166	2.903	
5320.0	3.283	0.166	3.449	
5500.0	4.129	0.166	4.295	
5560.0	4.303	0.166	4.469	
5700.0	3.843	0.166	4.009	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180.0	3.840	0.166	4.006	≤ 11
5200.0	3.753	0.166	3.919	
5240.0	2.999	0.166	3.165	
5260.0	3.322	0.166	3.488	
5280.0	3.304	0.166	3.470	
5320.0	3.484	0.166	3.650	
5500.0	4.427	0.166	4.593	
5560.0	4.563	0.166	4.729	
5700.0	4.799	0.166	4.965	

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.



Test Mode	Mode 2: IEEE 802.11a Continuous TX mode	
Power Spectral Density and E.I.R.P. Spectral Density		
Frequency (MHz)	ANT-0+1	Limit (dBm/MHz)
	Calculated (dBm/MHz)	
5180.0	7.014	≤ 11
5200.0	6.697	
5240.0	6.040	
5260.0	6.150	
5280.0	6.206	
5320.0	6.561	
5500.0	7.457	
5560.0	7.612	
5700.0	7.524	

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.



Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745.0	-4.879	0.166	2.28	≤ 30
5785.0	-4.985	0.166	2.17	
5825.0	-4.936	0.166	2.22	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745.0	-4.328	0.166	2.83	≤ 30
5785.0	-4.167	0.166	2.99	
5825.0	-4.020	0.166	3.14	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5745.0	5.571			≤ 30
5785.0	5.609			
5825.0	5.712			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10*Log(500 k/100 k)

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180.0	3.152	0.156	3.308	≤ 11
5200.0	3.125	0.156	3.281	
5240.0	2.264	0.156	2.420	
5260.0	2.010	0.156	2.166	
5280.0	2.455	0.156	2.611	
5320.0	2.306	0.156	2.462	
5500.0	3.981	0.156	4.137	
5560.0	3.880	0.156	4.036	
5700.0	3.062	0.156	3.218	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180.0	3.109	0.156	3.265	≤ 11
5200.0	3.275	0.156	3.431	
5240.0	2.659	0.156	2.815	
5260.0	3.051	0.156	3.207	
5280.0	2.790	0.156	2.946	
5320.0	2.913	0.156	3.069	
5500.0	4.228	0.156	4.384	
5560.0	4.214	0.156	4.370	
5700.0	4.223	0.156	4.379	

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode	
Power Spectral Density and E.I.R.P. Spectral Density		
Frequency (MHz)	ANT-0+1	Limit (dBm/MHz)
	Calculated (dBm/MHz)	
5180.0	6.296	≤ 11
5200.0	6.366	
5240.0	5.632	
5260.0	5.727	
5280.0	5.792	
5320.0	5.786	
5500.0	7.272	
5560.0	7.216	
5700.0	6.847	

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745.0	-5.602	0.156	1.54	≤ 30
5785.0	-5.338	0.156	1.81	
5825.0	-4.727	0.156	2.42	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745.0	-4.515	0.156	2.63	≤ 30
5785.0	-4.807	0.156	2.34	
5825.0	-4.977	0.156	2.17	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5745.0	5.131			≤ 30
5785.0	5.091			
5825.0	5.305			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10*Log(500 k/100 k)

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190.0	0.132	0.353	0.485	≤ 11
5230.0	-0.230	0.353	0.123	
5270.0	-0.841	0.353	-0.488	
5310.0	-3.468	0.353	-3.115	
5510.0	1.324	0.353	1.677	
5550.0	1.337	0.353	1.690	
5670.0	1.079	0.353	1.432	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190.0	-0.025	0.353	0.328	≤ 11
5230.0	0.233	0.353	0.586	
5270.0	0.177	0.353	0.530	
5310.0	-2.192	0.353	-1.839	
5510.0	1.158	0.353	1.511	
5550.0	1.424	0.353	1.777	
5670.0	1.821	0.353	2.174	
Power Spectral Density and E.I.R.P. Spectral Density				
Frequency (MHz)	ANT-0+1			Limit
	(dBm/MHz)			
5190.0	3.417			≤ 11
5230.0	3.371			
5270.0	3.061			
5310.0	0.580			
5510.0	4.605			
5550.0	4.744			
5670.0	4.829			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755.0	-8.107	0.353	-0.76	≤ 30
5795.0	-8.126	0.353	-0.78	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755.0	-6.580	0.353	0.76	≤ 30
5795.0	-7.524	0.353	-0.18	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5755.0	3.076			≤ 27.35
5795.0	2.538			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10*Log(500 k/100 k)

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210.0	-3.654	0.744	-2.910	≤ 11
5290.0	-6.816	0.744	-6.072	
5530.0	-2.463	0.744	-1.719	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210.0	-3.493	0.744	-2.749	≤ 11
5290.0	-6.440	0.744	-5.696	
5530.0	-2.684	0.744	-1.940	
Power Spectral Density and E.I.R.P. Spectral Density				
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5210.0	0.182			≤ 11
5290.0	-2.869			
5530.0	1.183			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775.0	-12.258	0.744	-4.52	≤ 30
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775.0	-11.160	0.744	-3.43	≤ 30
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5775.0	-0.930			≤ 30

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

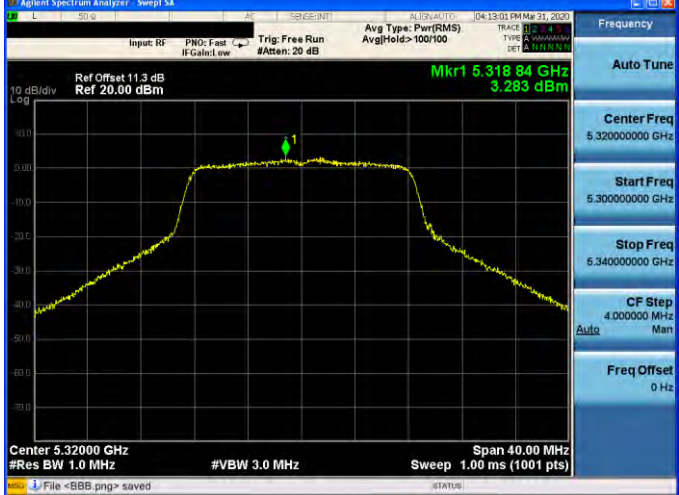
Conversion ratio = 10*Log(500 k/100 k)

■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX Mode_ANT-0

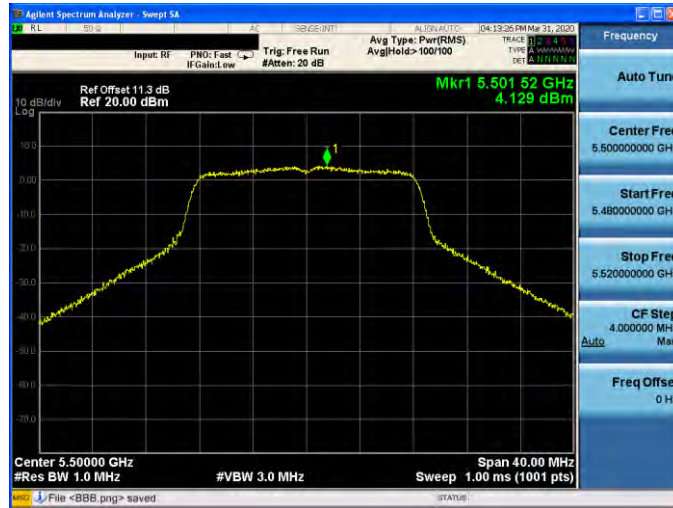
CH36	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Attenu: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.179 08 GHz 3.835 dBm Center 5.18000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.18000000 GHz Start Freq 5.16000000 GHz Stop Freq 5.20000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz
CH40	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Attenu: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.201 48 GHz 3.274 dBm Center 5.20000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.20000000 GHz Start Freq 5.18000000 GHz Stop Freq 5.22000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz
CH48	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Attenu: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.241 28 GHz 2.723 dBm Center 5.24000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.24000000 GHz Start Freq 5.22000000 GHz Stop Freq 5.26000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz

Mode 2: IEEE 802.11a Continuous TX Mode_ANT-0

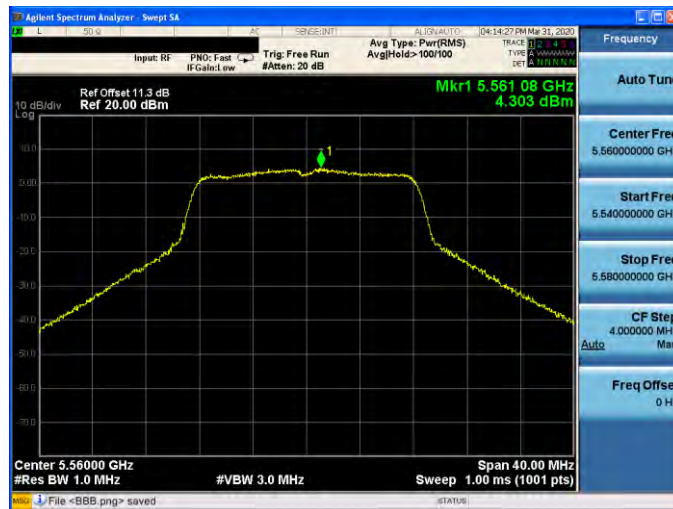
CH52	
CH56	
CH64	

Mode 2: IEEE 802.11a Continuous TX Mode_ANT-0

CH100



CH112

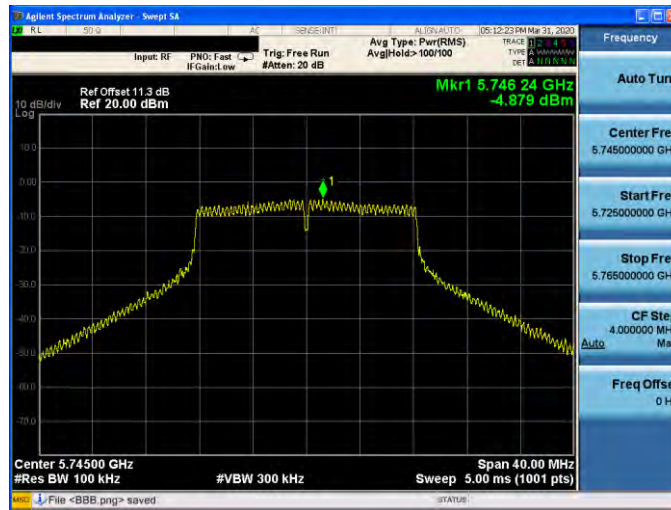


CH140

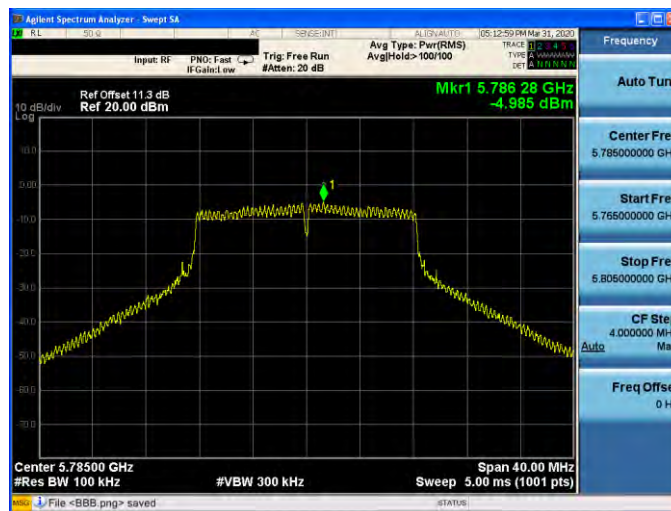


Mode 2: IEEE 802.11a Continuous TX Mode_ANT-0

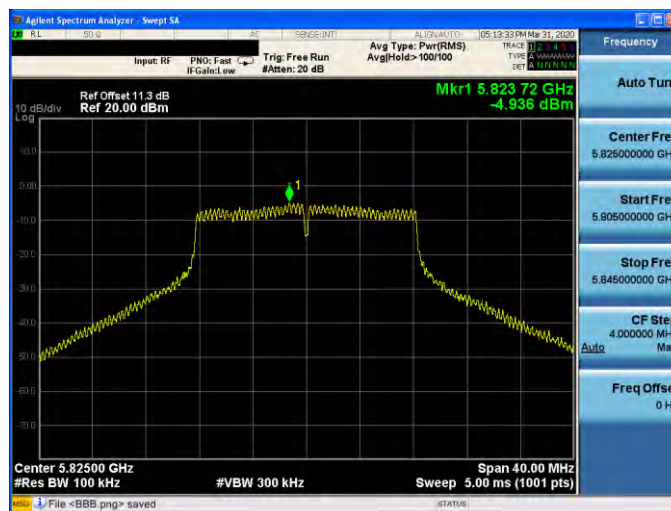
CH149



CH157



CH165



Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

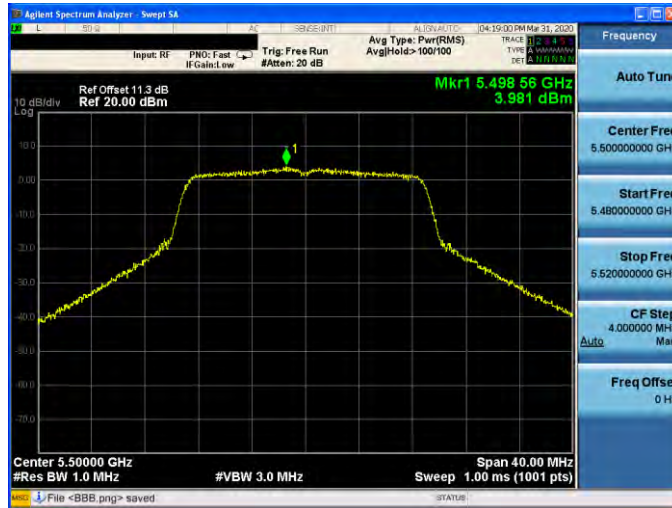
CH36	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Att: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.181 76 GHz 3.152 dBm Center 5.18000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.18000000 GHz Start Freq 5.16000000 GHz Stop Freq 5.20000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz
CH40	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Att: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.201 36 GHz 3.125 dBm Center 5.20000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.20000000 GHz Start Freq 5.18000000 GHz Stop Freq 5.22000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz
CH48	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Att: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.241 04 GHz 2.264 dBm Center 5.24000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.24000000 GHz Start Freq 5.22000000 GHz Stop Freq 5.26000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz

Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

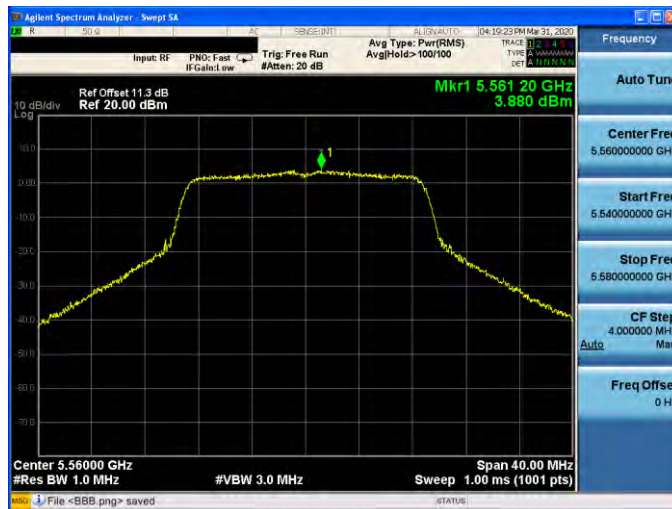
CH52	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Att: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.261 20 GHz 2.010 dBm Center 5.26000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.26000000 GHz Start Freq 5.24000000 GHz Stop Freq 5.28000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz
CH56	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Att: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.281 36 GHz 2.455 dBm Center 5.28000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.28000000 GHz Start Freq 5.26000000 GHz Stop Freq 5.30000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz
CH64	 Agilent Spectrum Analyzer - Swept SA Input: RF PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) Att: 20 dB Ref Offset: 11.3 dB Ref: 20.00 dBm Mkr1 5.318 32 GHz 2.306 dBm Center 5.32000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 40.00 MHz Sweep 1.00 ms (1001 pts) File <BBB.png> saved Frequency Auto Tune Center Freq 5.32000000 GHz Start Freq 5.30000000 GHz Stop Freq 5.34000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz

Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

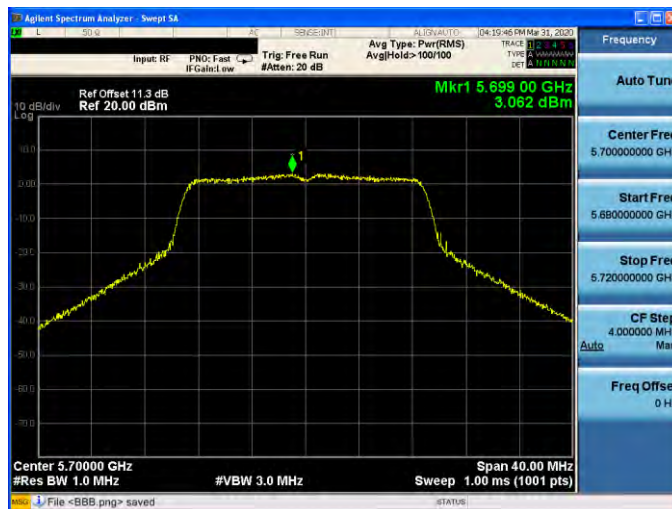
CH100



CH112



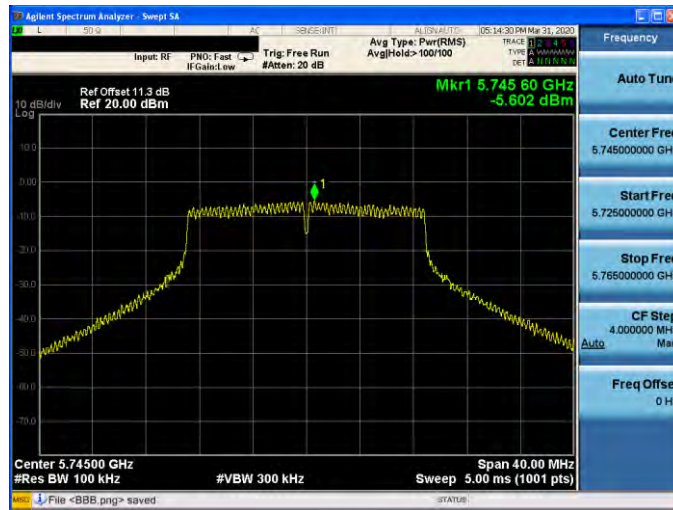
CH140



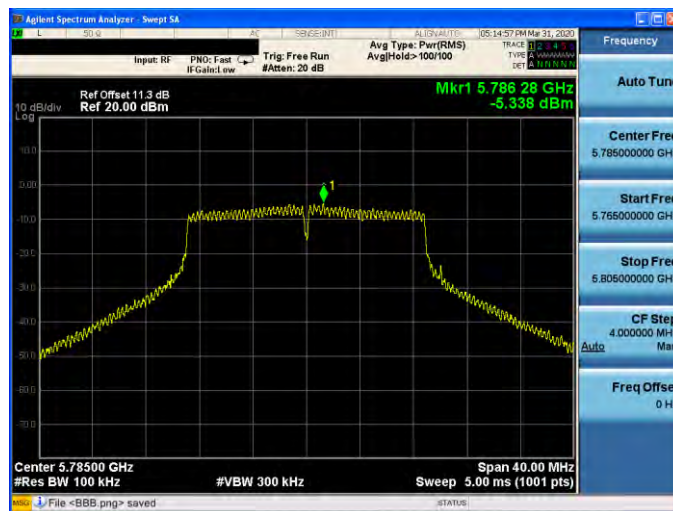


Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

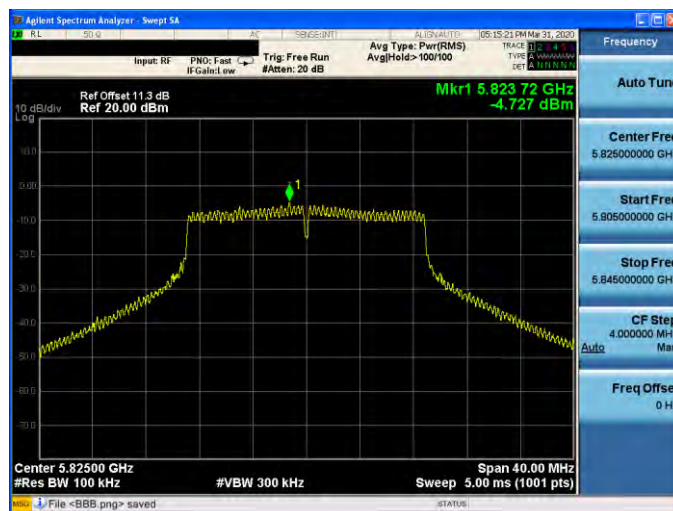
CH149



CH157



CH165

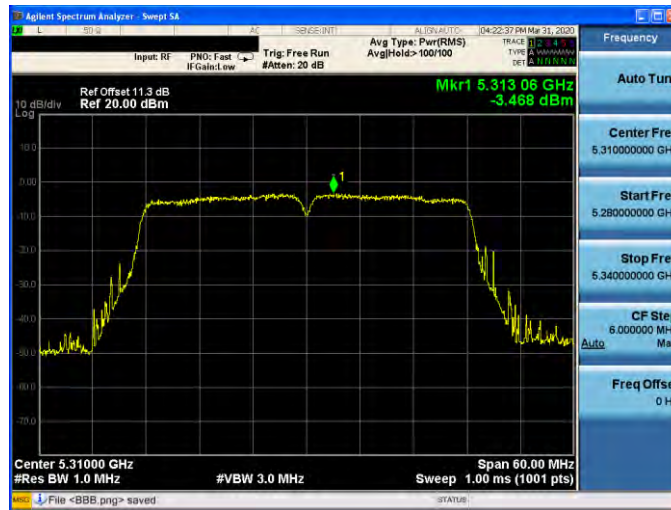


Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH38	
CH46	
CH54	

Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH62



CH102



CH110



Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH134



CH151



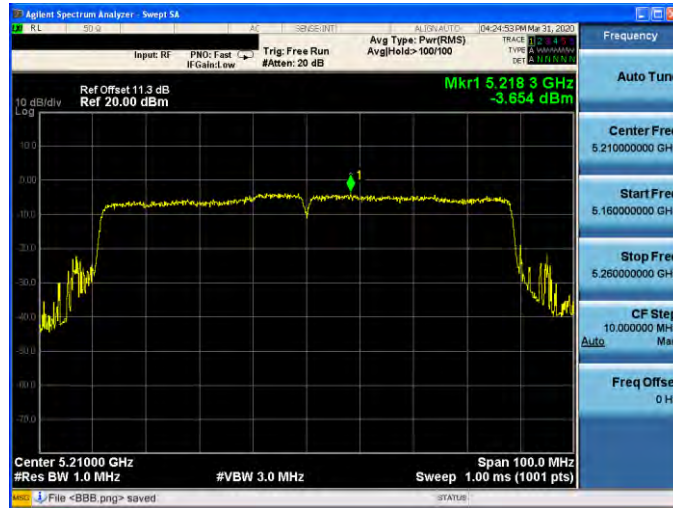
CH159



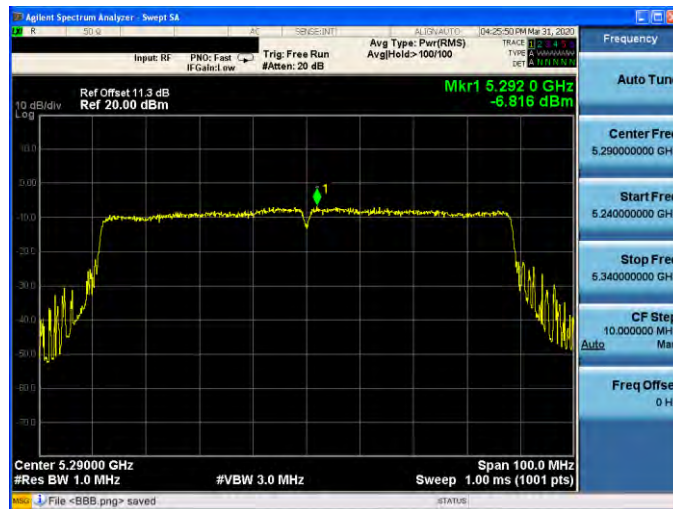


Mode 5: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-0

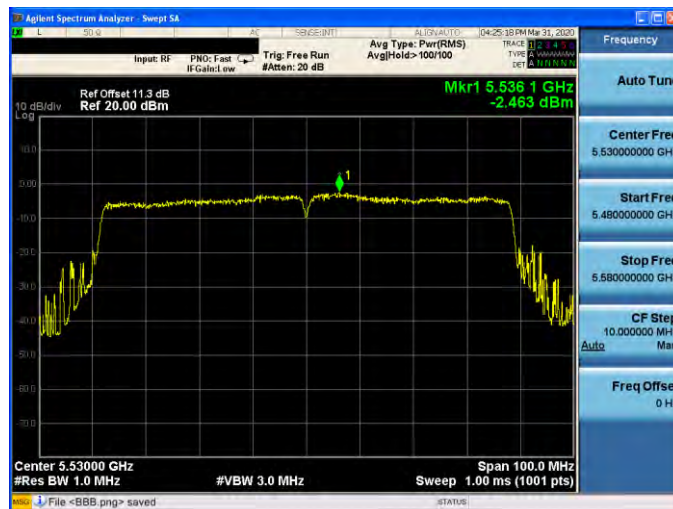
CH42



CH58



CH106





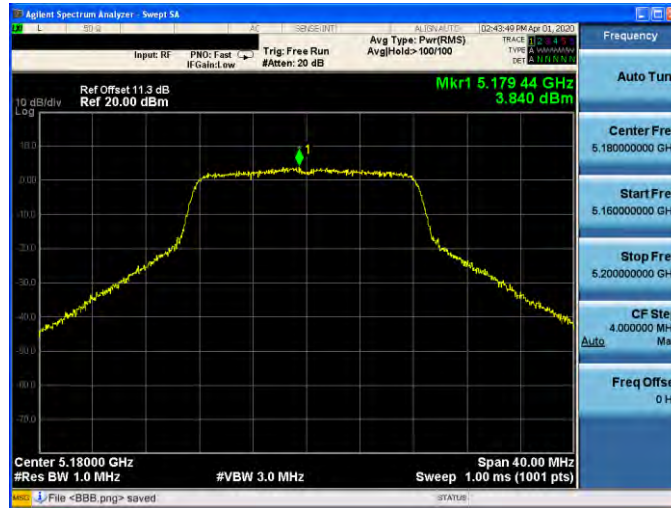
Mode 5: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-0

CH155

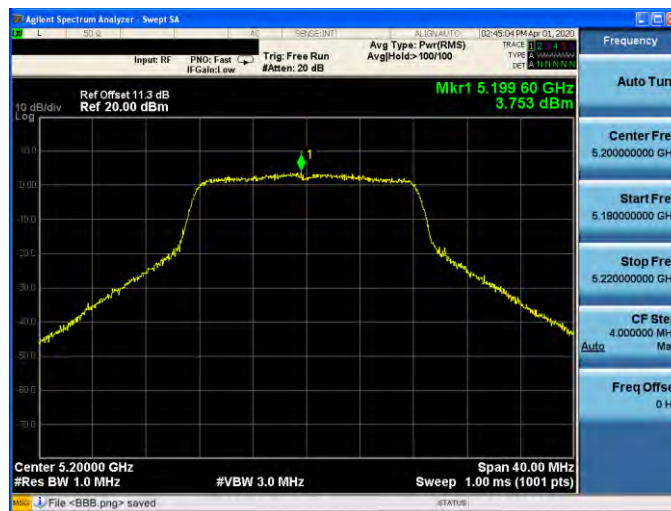


Mode 2: IEEE 802.11a Continuous TX Mode_ANT-1

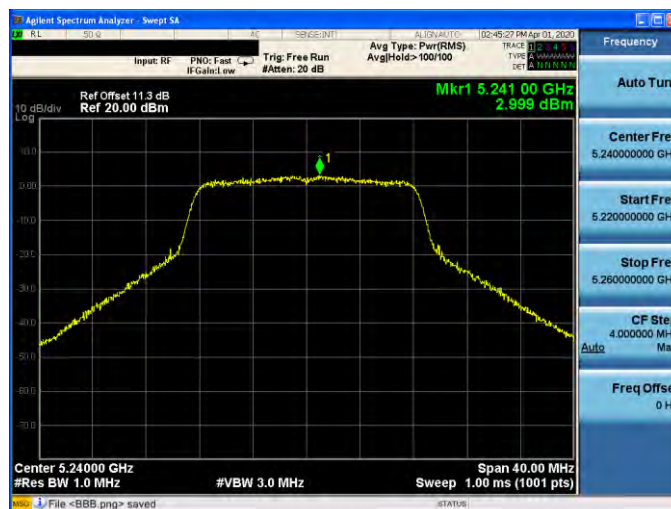
CH36

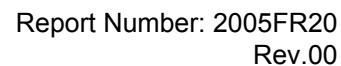


CH40



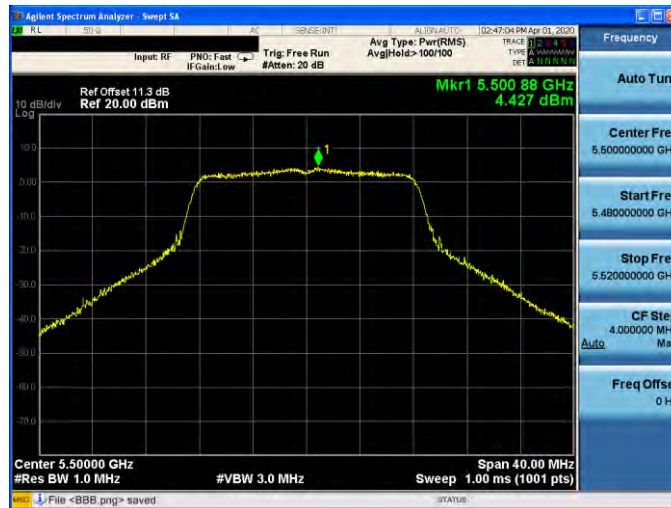
CH48



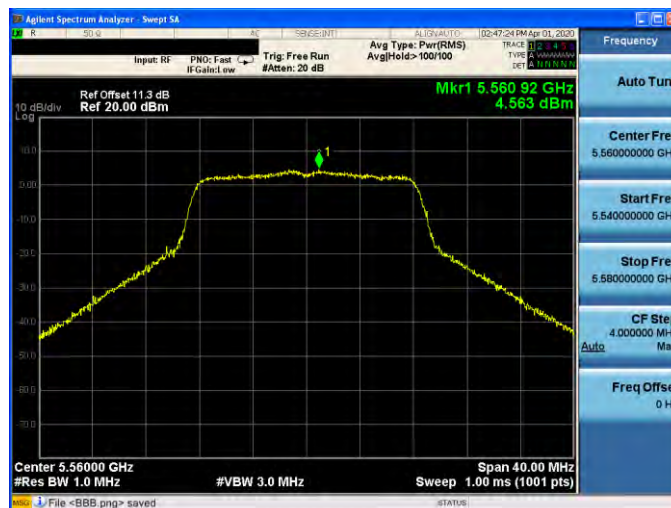
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Mode 2: IEEE 802.11a Continuous TX Mode_ANT-1

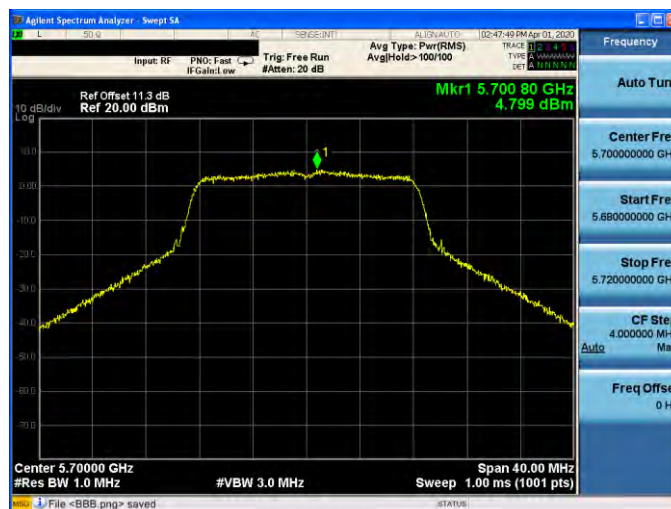
CH100

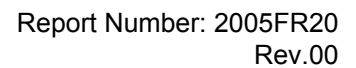


CH112



CH140





Mode 2: IEEE 802.11a Continuous TX Mode_ANT-1

CH149

Agilent Spectrum Analyzer - Sweep SA

Input: RF PNO: Fast IF Gain: Low Trig: Free Run #Att: 20 dB Avg Type: Pwr(RMS) AvgHold: 100/100

Ref Offset 11.3 dB Ref 20.00 dBm

Mkr1 5.744 40 GHz -4.328 dBm

Center 5.74500 GHz #Res BW 100 kHz #VBW 300 kHz Span 40.00 MHz Sweep 5.00 ms (1001 pts)

Frequency

Auto Tune

Center Freq 5.745000000 GHz

Start Freq 5.725000000 GHz

Stop Freq 5.765000000 GHz

CF Step 4.000000 MHz Man

Freq Offset 0 Hz

File <BBB.png> saved

CH157

Agilent Spectrum Analyzer - Sweep SA

Input: RF PNO: Fast IF Gain: Low Trig: Free Run #Att: 20 dB Avg Type: Pwr(RMS) AvgHold: 100/100

Ref Offset 11.3 dB Ref 20.00 dBm

Mkr1 5.786 24 GHz -4.167 dBm

Center 5.78500 GHz #Res BW 100 kHz #VBW 300 kHz Span 40.00 MHz Sweep 5.00 ms (1001 pts)

Frequency

Auto Tune

Center Freq 5.785000000 GHz

Start Freq 5.765000000 GHz

Stop Freq 5.805000000 GHz

CF Step 4.000000 MHz Man

Freq Offset 0 Hz

File <BBB.png> saved

CH165

Agilent Spectrum Analyzer - Sweep SA

Input: RF PNO: Fast IF Gain: Low Trig: Free Run #Att: 20 dB Avg Type: Pwr(RMS) AvgHold: 100/100

Ref Offset 11.3 dB Ref 20.00 dBm

Mkr1 5.826 24 GHz -4.020 dBm

Center 5.82500 GHz #Res BW 100 kHz #VBW 300 kHz Span 40.00 MHz Sweep 5.00 ms (1001 pts)

Frequency

Auto Tune

Center Freq 5.825000000 GHz

Start Freq 5.805000000 GHz

Stop Freq 5.845000000 GHz

CF Step 4.000000 MHz Man

Freq Offset 0 Hz

File <BBB.png> saved

Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

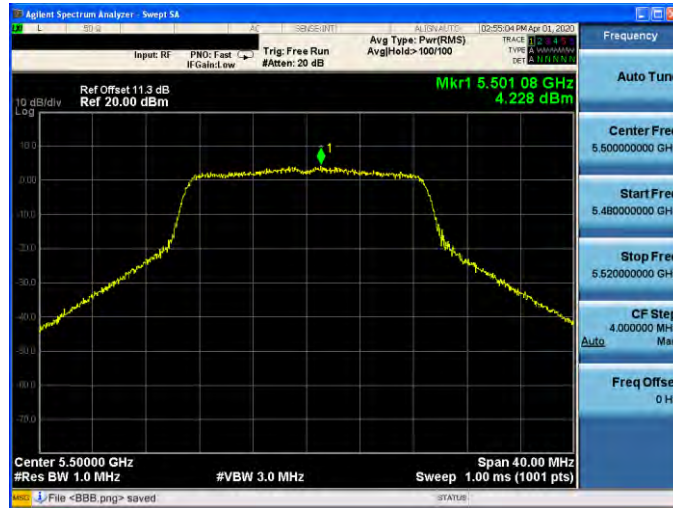
CH36	
CH40	
CH48	

Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

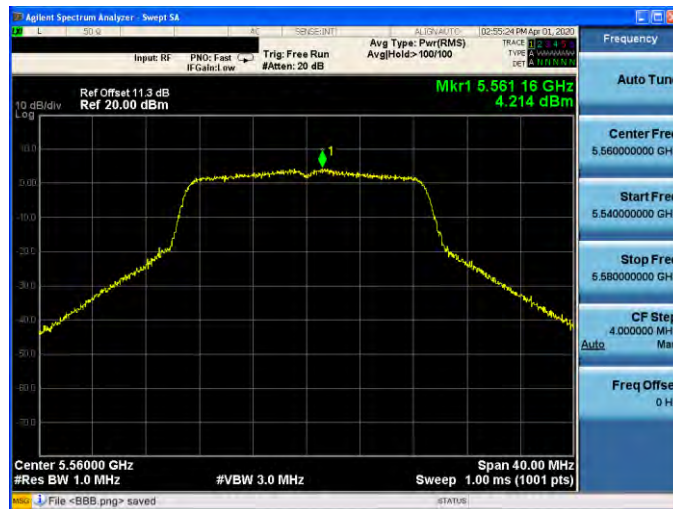
CH52	
CH56	
CH64	

Mode 3: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

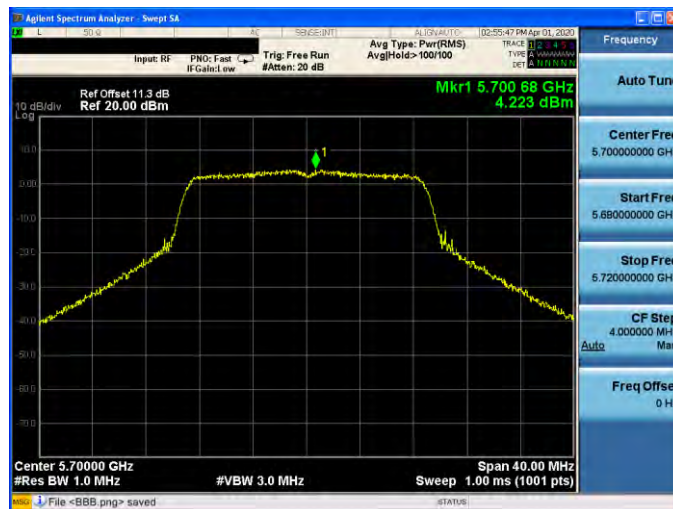
CH100

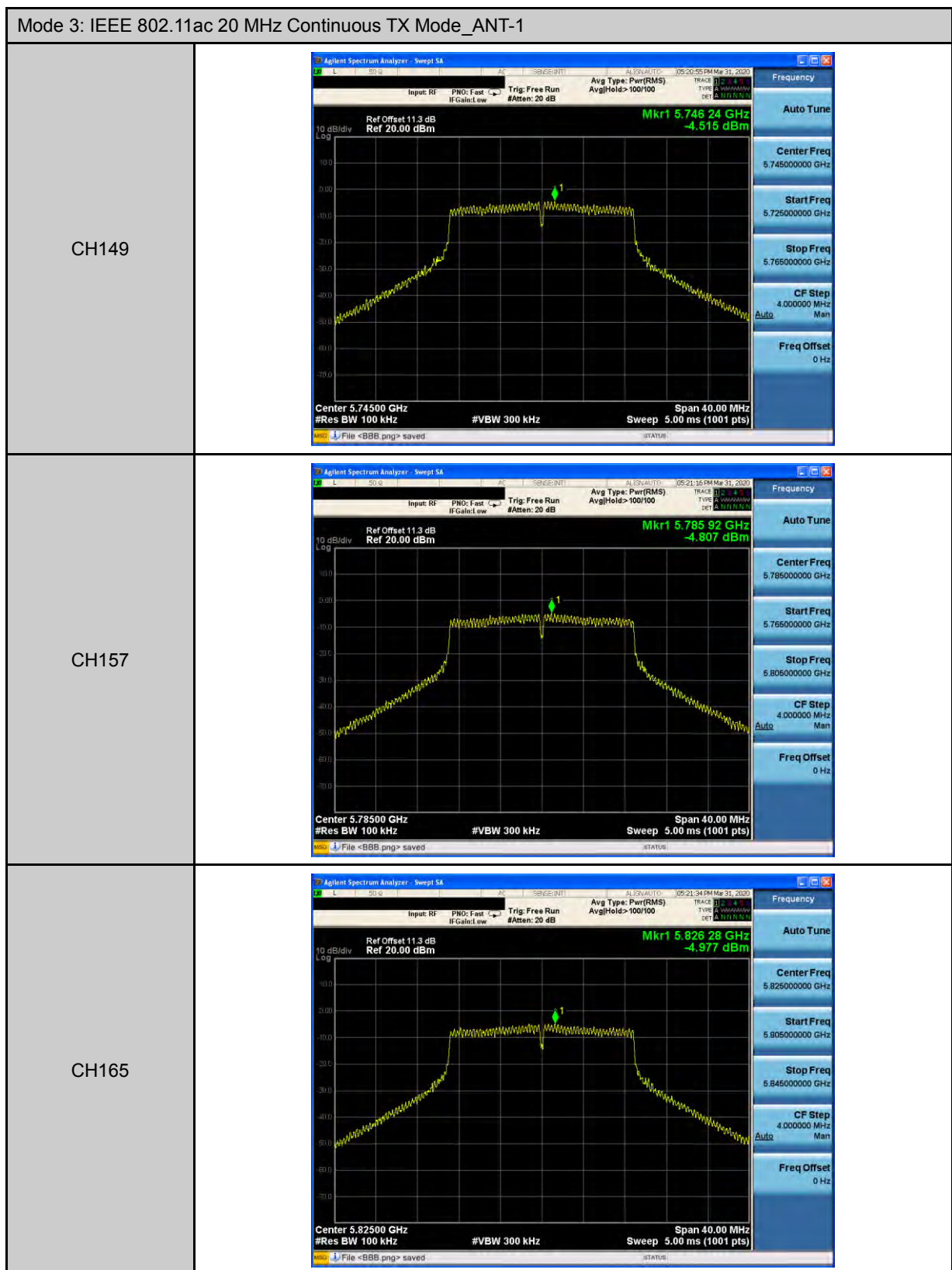
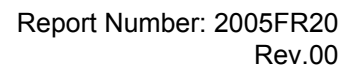


CH112



CH140







Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

CH38



CH46

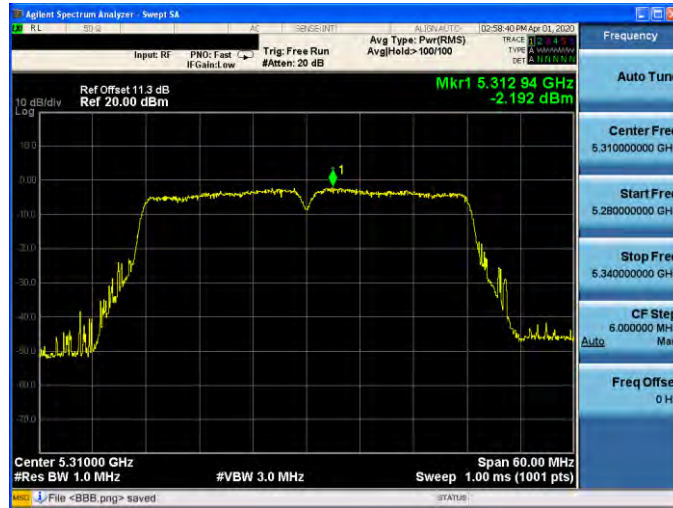


CH54



Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

CH62



CH102



CH110



Mode 4: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

CH134



CH151



CH159



Mode 5: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1

CH42



CH58



CH106





Mode 5: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1

CH155



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