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	14.11	0.026	≤ 24.00
5200.0		14.14	0.026	≤ 24.00
5220.0		**14.23**	**0.026**	≤ 24.00
5240.0		14.21	0.026	≤ 24.00
5260.0		14.22	0.026	≤ 24.00
5280.0		14.32	0.027	≤ 24.00
5300.0		14.25	0.027	≤ 24.00
5320.0		**14.48**	**0.028**	≤ 24.00
5500.0		**12.93**	**0.020**	≤ 24.00
5520.0		12.32	0.017	≤ 24.00
5540.0		12.31	0.017	≤ 24.00
5560.0		12.42	0.017	≤ 24.00
5580.0		12.81	0.019	≤ 24.00
5660.0		12.80	0.019	≤ 24.00
5680.0		12.70	0.019	≤ 24.00
5700.0		12.63	0.018	≤ 24.00
5745.0		14.35	0.027	≤ 30.00
5765.0		**14.38**	**0.027**	≤ 30.00
5785.0		14.36	0.027	≤ 30.00
5805.0		14.37	0.027	≤ 30.00
5825.0		14.28	0.027	≤ 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	6.5 M	**13.62**	**0.023**	≤ 24.00
5200.0		13.44	0.022	≤ 24.00
5220.0		13.48	0.022	≤ 24.00
5240.0		13.43	0.022	≤ 24.00
5260.0		**13.57**	**0.023**	≤ 24.00
5280.0		13.48	0.022	≤ 24.00
5300.0		13.44	0.022	≤ 24.00
5320.0		13.43	0.022	≤ 24.00
5500.0		12.91	0.020	≤ 24.00
5520.0		12.70	0.019	≤ 24.00
5540.0		12.88	0.019	≤ 24.00
5560.0		12.77	0.019	≤ 24.00
5580.0		**12.93**	**0.020**	≤ 24.00
5660.0		12.89	0.019	≤ 24.00
5680.0		12.87	0.019	≤ 24.00
5700.0		12.83	0.019	≤ 24.00
5745.0		13.46	0.022	≤ 30.00
5765.0		**13.51**	**0.022**	≤ 30.00
5785.0		13.41	0.022	≤ 30.00
5805.0		13.45	0.022	≤ 30.00
5825.0		13.41	0.022	≤ 30.00

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

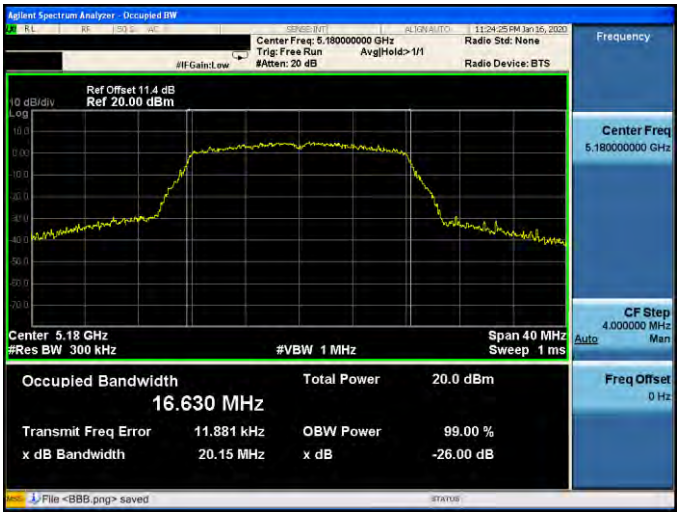
Test Mode		Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5190.0	13.5 M	12.61	0.018	≤ 24.00
5230.0		**12.69**	**0.019**	≤ 24.00
5270.0		**12.74**	**0.019**	≤ 24.00
5310.0		12.62	0.018	≤ 24.00
5510.0		12.75	0.019	≤ 24.00
5550.0		12.91	0.020	≤ 24.00
5670.0		**12.92**	**0.020**	≤ 24.00
5755.0		12.52	0.018	≤ 30.00
5795.0		**12.53**	**0.018**	≤ 30.00
Test Mode		Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5210.0	29.3 M	**8.74**	**0.007**	≤ 24.00
5290.0		**9.26**	**0.008**	≤ 24.00
5530.0		**12.75**	**0.019**	≤ 30.00
5775.0		**12.55**	**0.018**	≤ 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	20.150
5200.0	20.320
5240.0	20.120
5260.0	20.190
5280.0	20.050
5320.0	20.250
5500.0	20.220
5560.0	20.080
5700.0	20.100
Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode
Frequency (MHz)	ANT-0
5180.0	20.470
5200.0	20.490
5240.0	20.380
5260.0	20.470
5280.0	20.420
5320.0	20.360
5500.0	20.360
5560.0	20.300
5700.0	20.380
Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode
Frequency (MHz)	ANT-0
5190.0	41.300
5230.0	41.640
5270.0	41.400
5310.0	41.410
5510.0	41.600
5550.0	41.590
5670.0	41.460
Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode
Frequency (MHz)	ANT-0
5210.0	81.930
5290.0	82.030
5530.0	81.860

■ **Test Graphs**

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

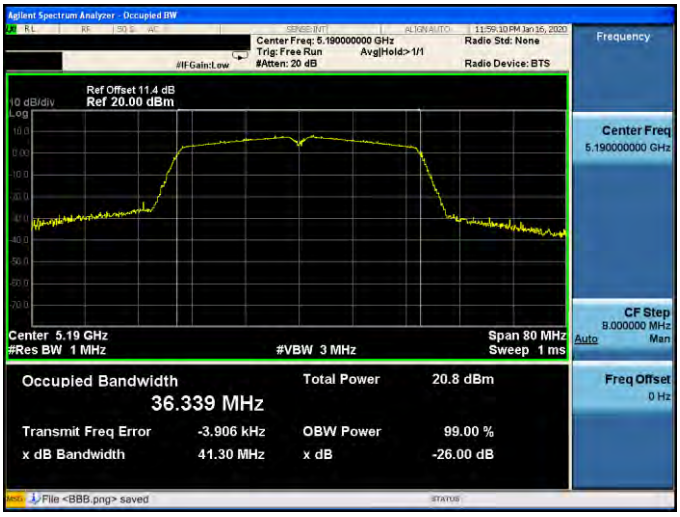
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5260 MHz	
5280 MHz	
5320 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5500 MHz	
5560 MHz	
5700 MHz	

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ ANT-0	
5260 MHz	
5280 MHz	
5320 MHz	

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ ANT-0	
5500 MHz	
5560 MHz	
5700 MHz	

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5190 MHz	
5230 MHz	

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5270 MHz	
5310 MHz	

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5510 MHz	
5550 MHz	
5670 MHz	

Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ ANT-0	
5210 MHz	
5290 MHz	

Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ ANT-0	
5530 MHz	

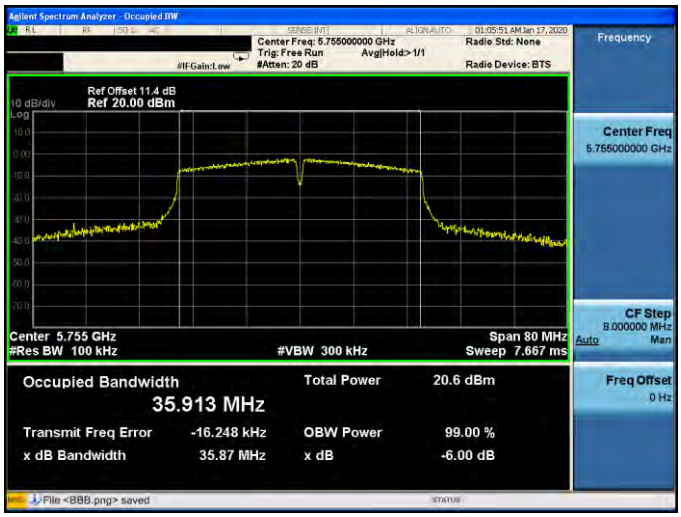
6 dB RF Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5745.0	15170	≥ 500
5785.0	15130	≥ 500
5825.0	15120	≥ 500
Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5745.0	15070	≥ 500
5785.0	15130	≥ 500
5825.0	15060	≥ 500
Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5755.0	35870	≥ 500
5795.0	35750	≥ 500
Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5775.0	76620	≥ 500

■ **Test Graphs**

Mode 2: IEEE 802.11a Link Mode_ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	

Mode 3: IEEE 802.11ac 20 MHz Link Mode_ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	

Mode 4: IEEE 802.11ac 40 MHz Link Mode_ANT-0	
5755 MHz	
5795 MHz	

Mode 5: IEEE 802.11ac 80 MHz Link Mode_ANT-0	
5775 MHz	

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	3.481	0.000	3.481	≤ 11.00
5200.0	3.310	0.000	3.310	
5240.0	3.172	0.000	3.172	
5260.0	3.941	0.000	3.941	
5280.0	3.743	0.000	3.743	
5320.0	3.913	0.000	3.913	
5500.0	3.593	0.000	3.593	
5560.0	3.669	0.000	3.669	
5700.0	4.086	0.000	4.086	

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	-3.053	0.000	3.937	≤ 30
5785.0	-3.560	0.000	3.430	
5825.0	-3.981	0.000	3.009	

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	3.523	0.000	3.523	≤ 11.00
5200.0	3.415	0.000	3.415	
5240.0	3.020	0.000	3.020	
5260.0	3.486	0.000	3.486	
5280.0	3.184	0.000	3.184	
5320.0	2.682	0.000	2.682	
5500.0	3.348	0.000	3.348	
5560.0	3.632	0.000	3.632	
5700.0	3.716	0.000	3.716	

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	-4.616	0.000	2.374	≤ 30
5785.0	-4.634	0.000	2.356	
5825.0	-4.931	0.000	2.059	

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	-0.211	0.000	-0.211	≤ 11.00
5230.0	-0.355	0.000	-0.355	
5270.0	0.106	0.000	0.106	
5310.0	-0.168	0.000	-0.168	
5510.0	-0.070	0.000	-0.070	
5550.0	-0.056	0.000	-0.056	
5670.0	0.352	0.000	0.352	

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	-6.799	0.000	0.191	≤ 30
5795.0	-6.894	0.000	0.096	

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	-8.212	0.000	-8.212	≤ 11.00
5290.0	-7.644	0.000	-7.644	
5530.0	-4.369	0.000	-4.369	

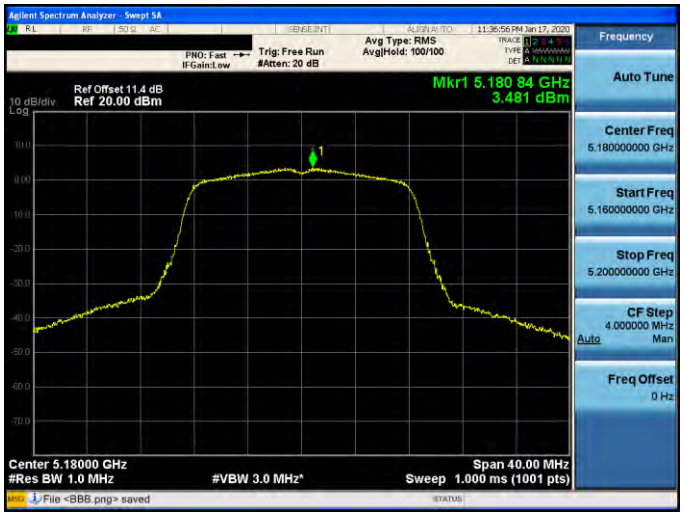
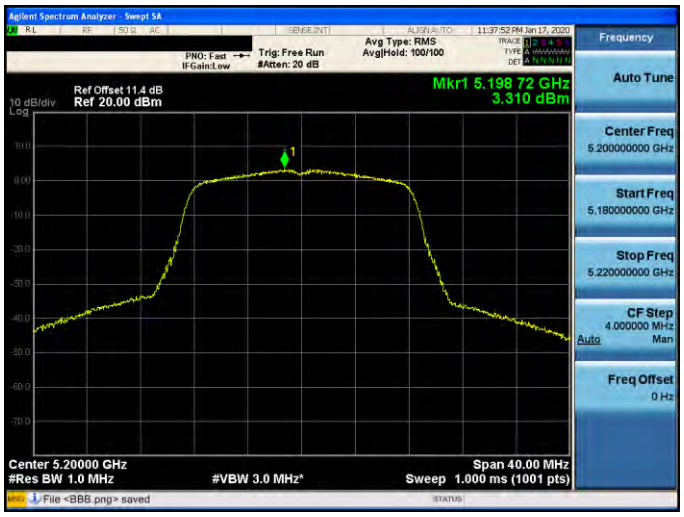
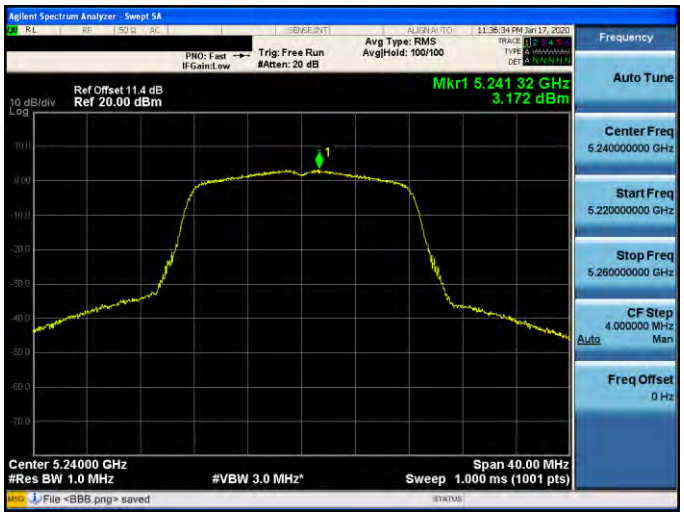
Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

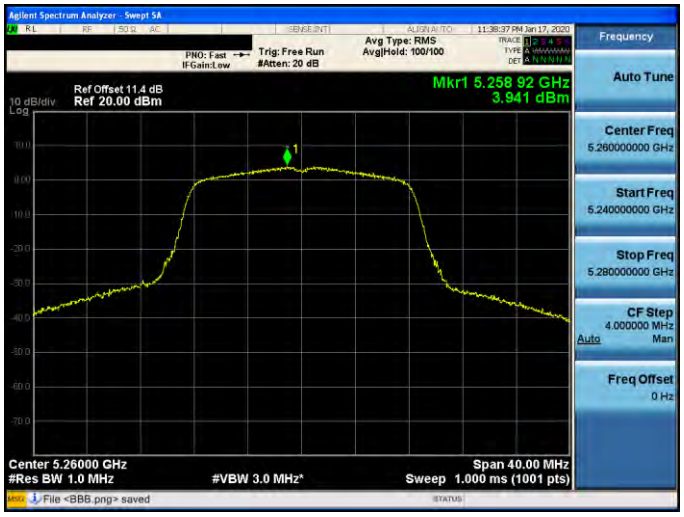
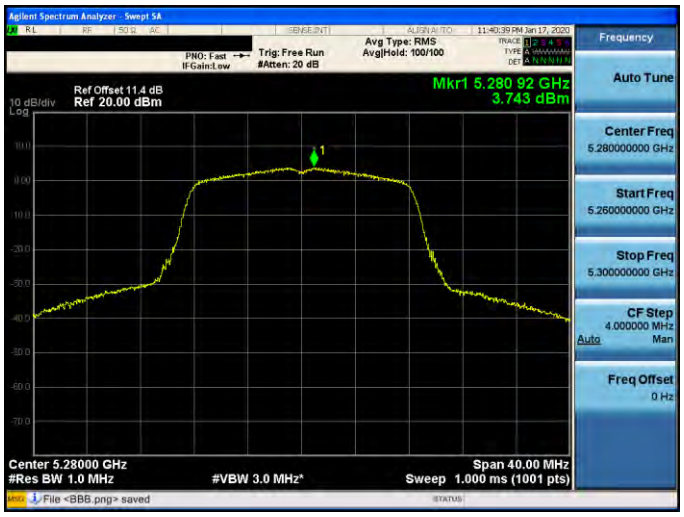
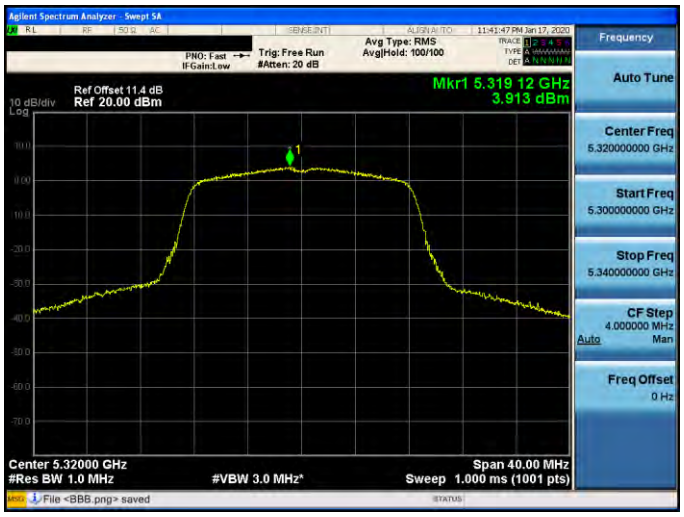
Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775.0	-13.159	0.000	-6.169	≤ 30

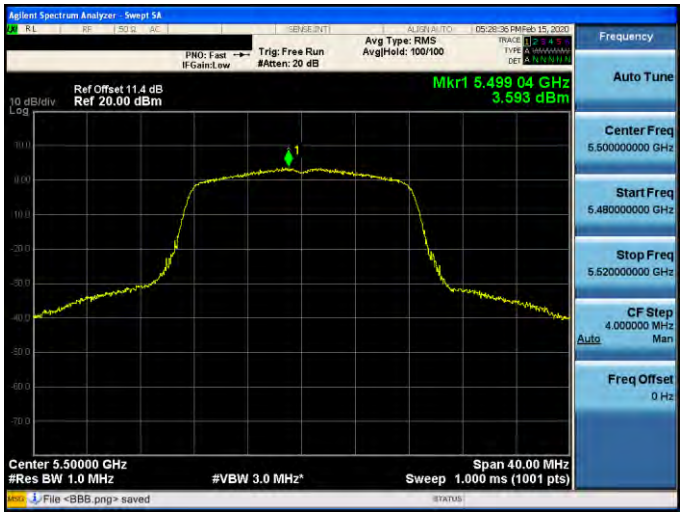
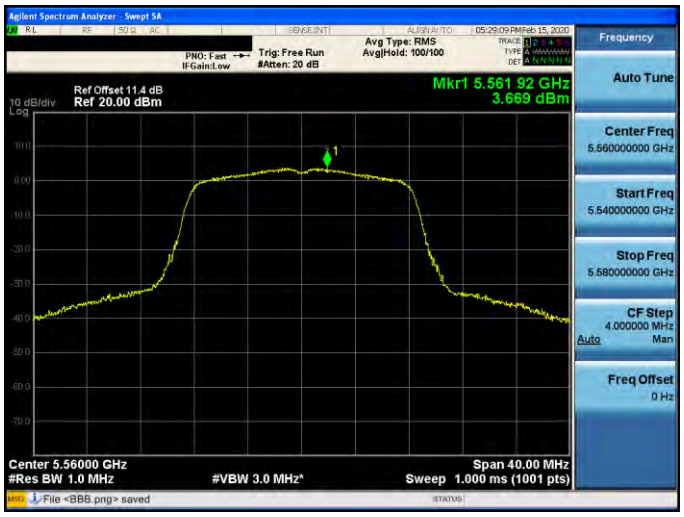
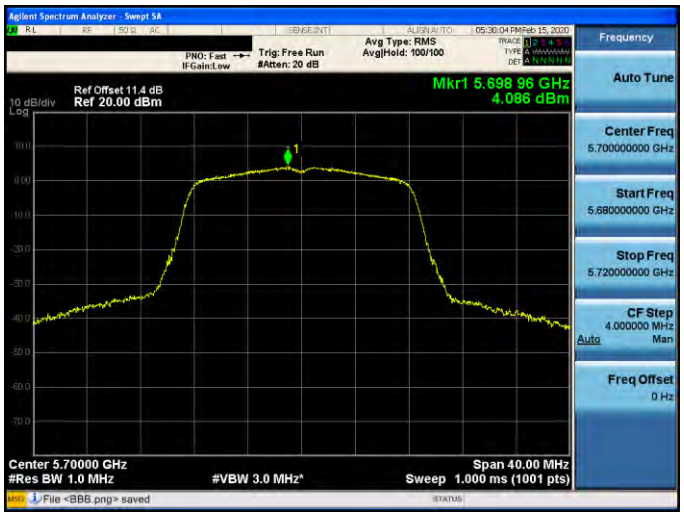
Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

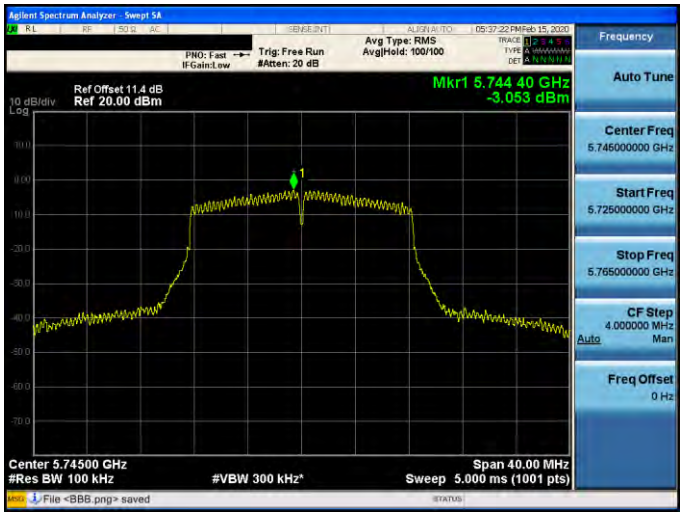
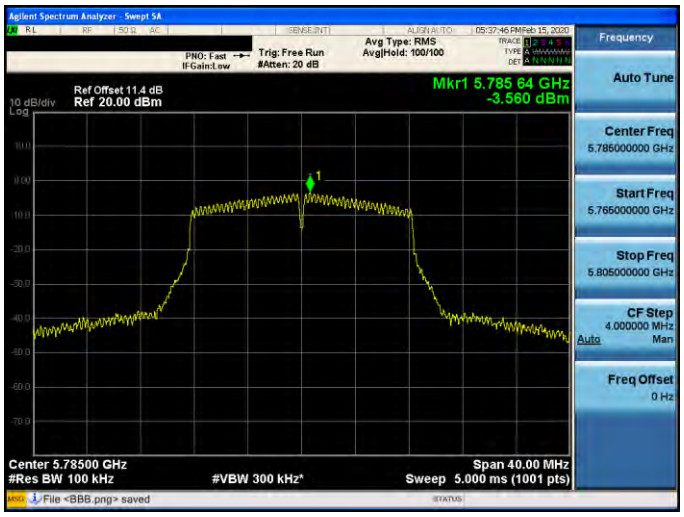
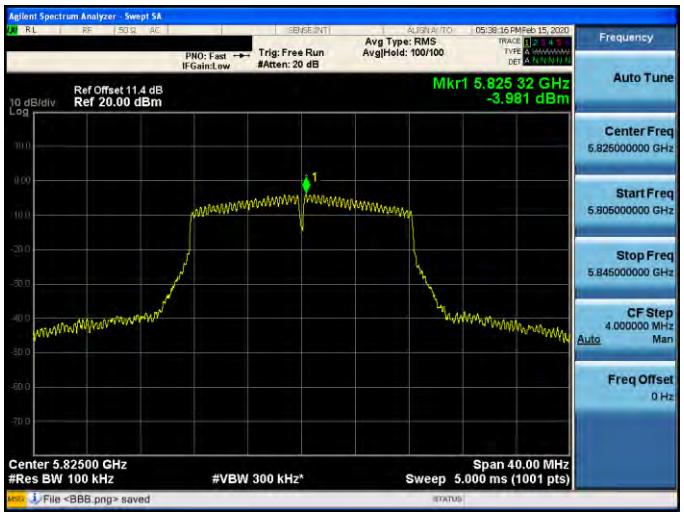
Conversion ratio = 10*Log(500 k/100 k)

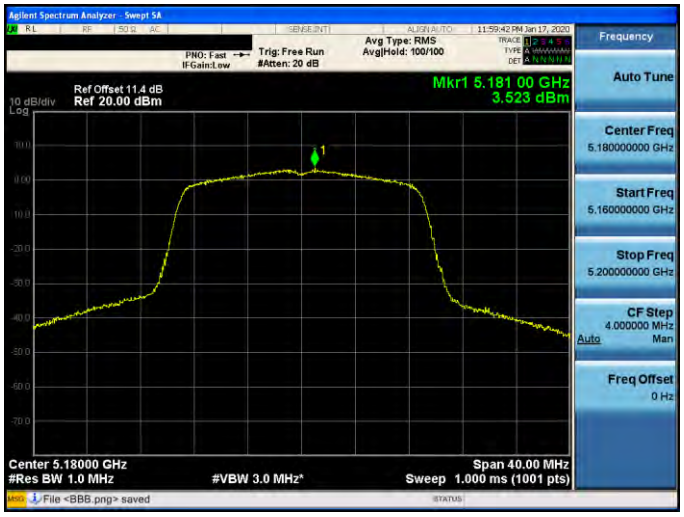
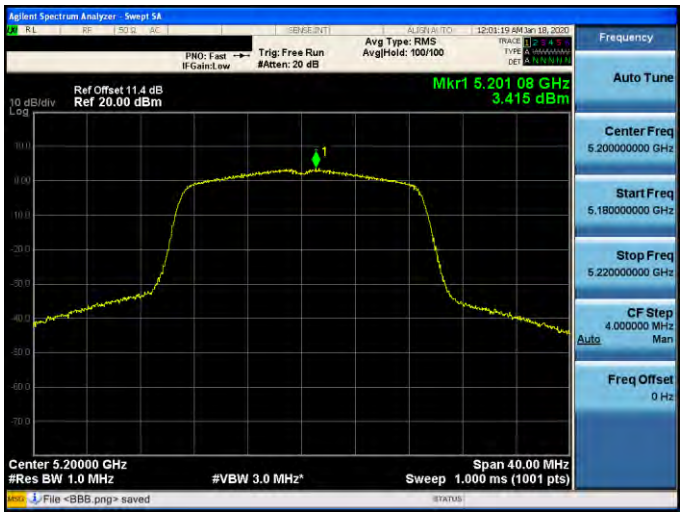
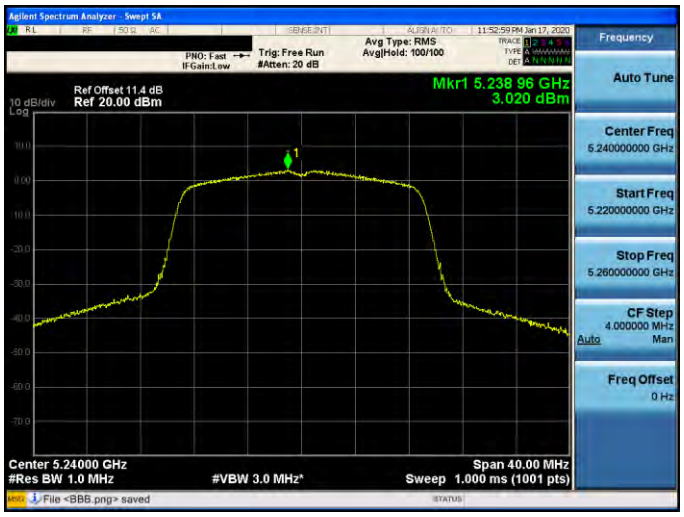
■ **Test Graphs**

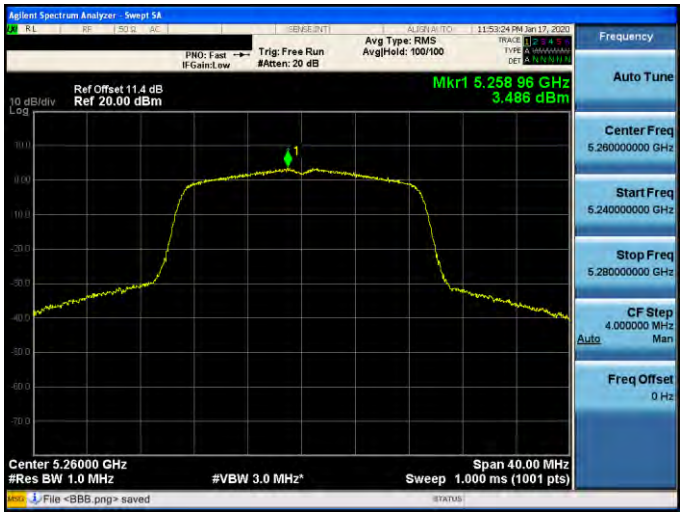
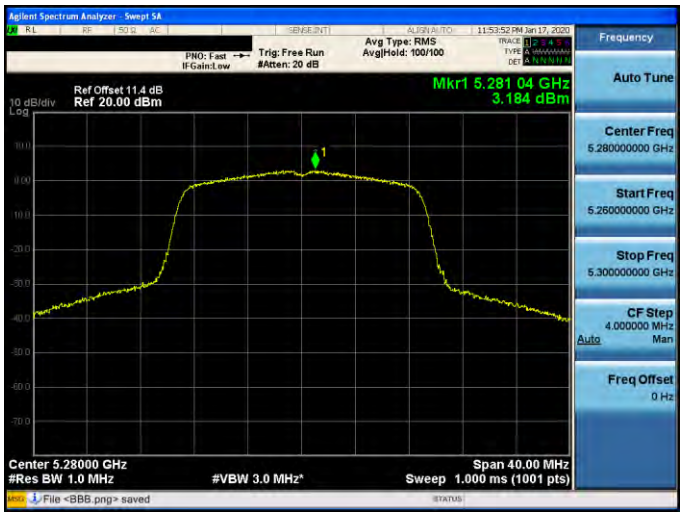
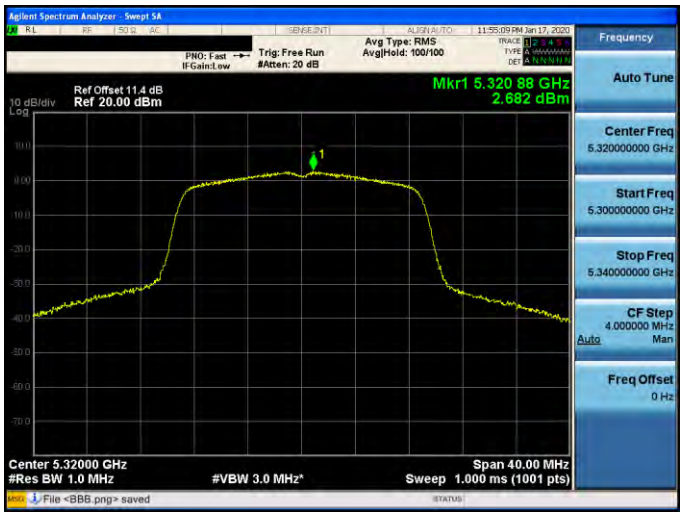
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

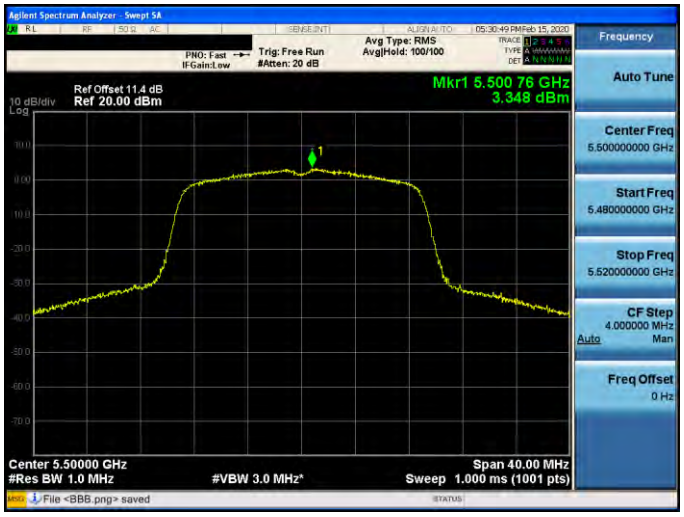
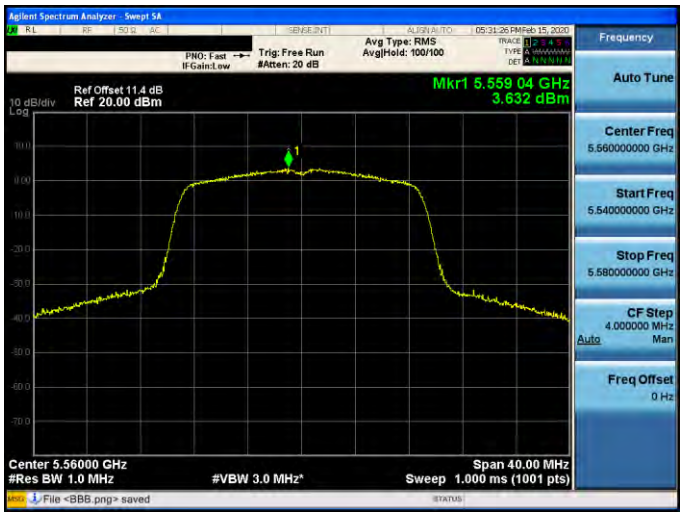
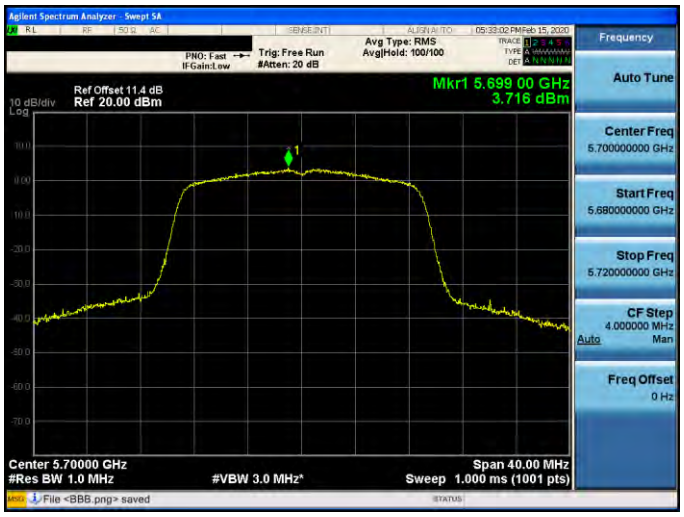
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5260 MHz	
5280 MHz	
5320 MHz	

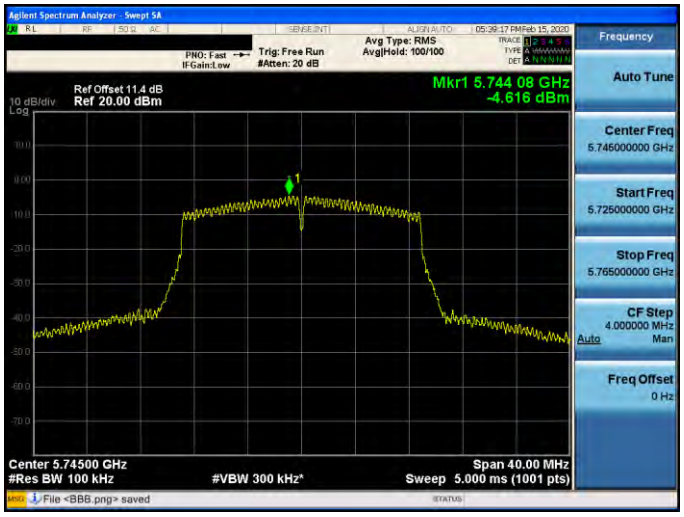
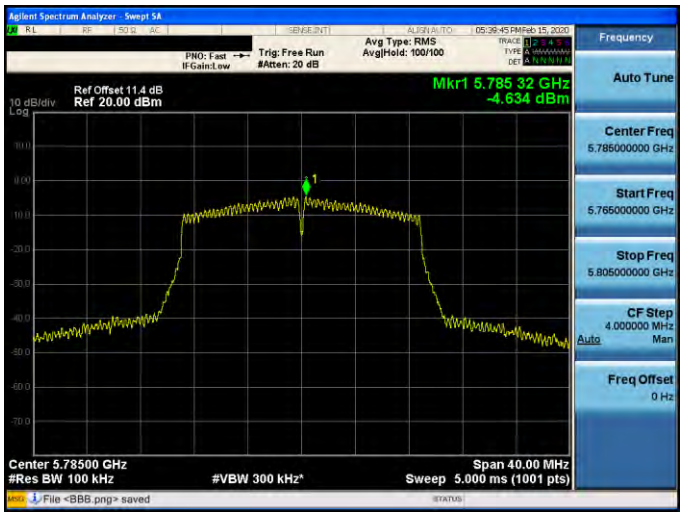
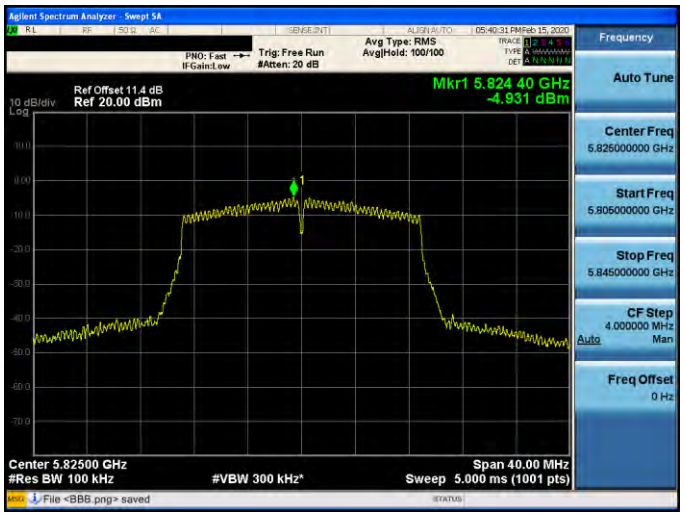
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5500 MHz	
5560 MHz	
5700 MHz	

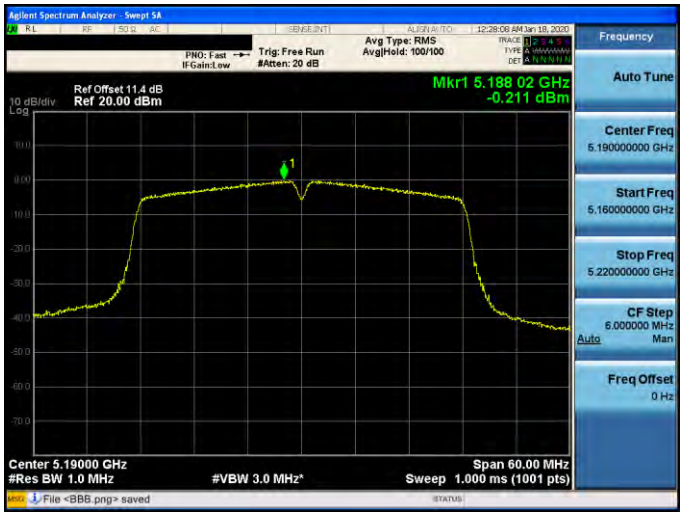
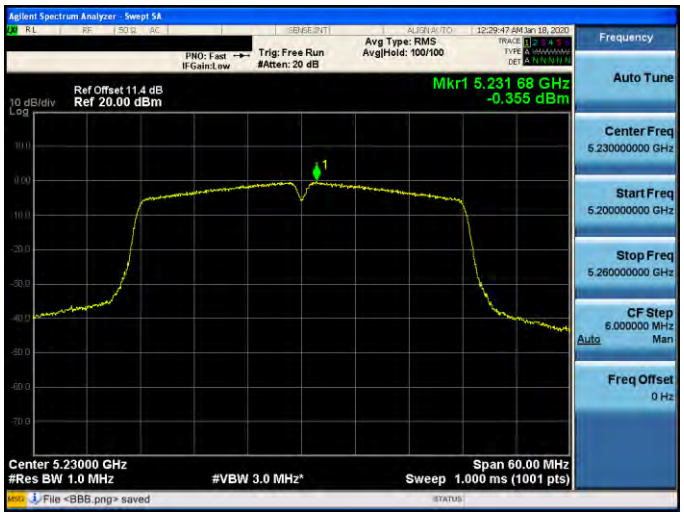
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	

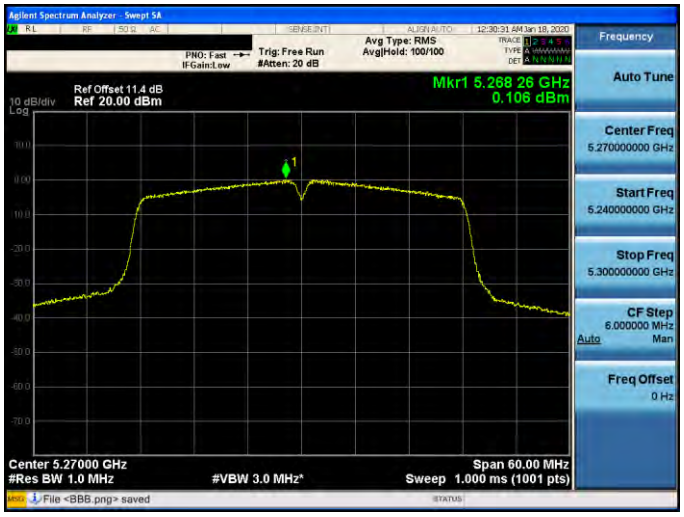
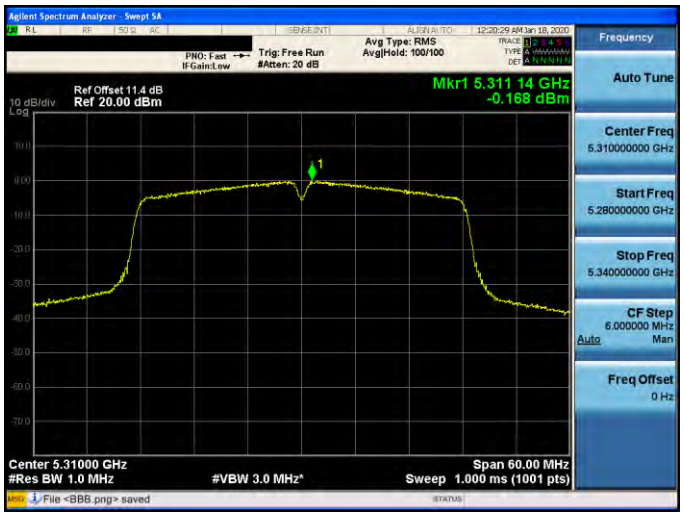
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

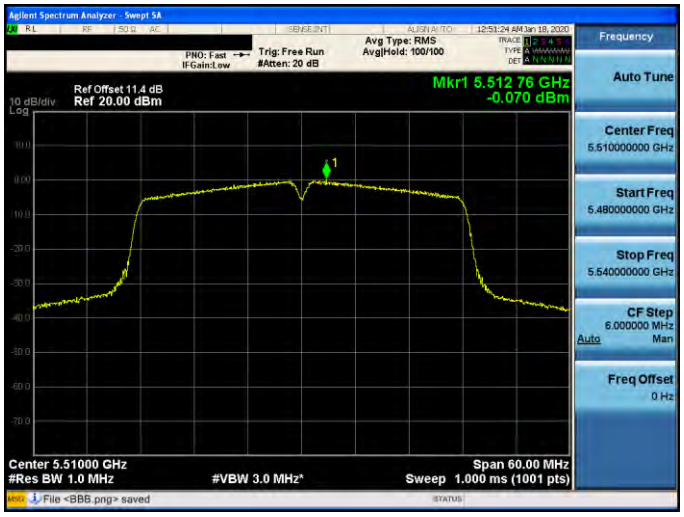
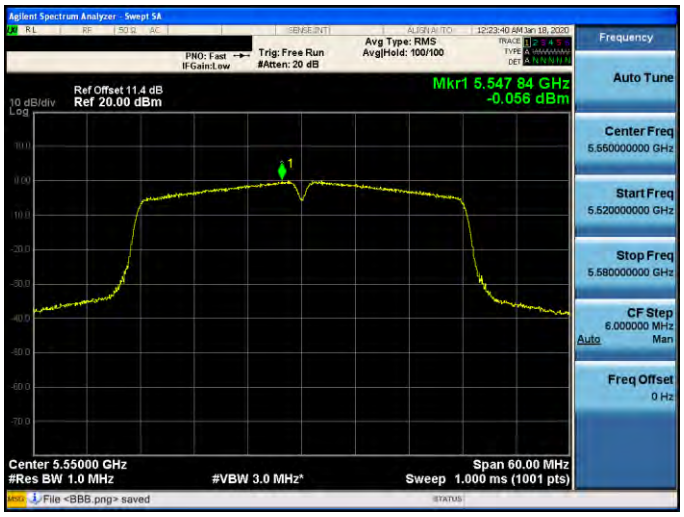
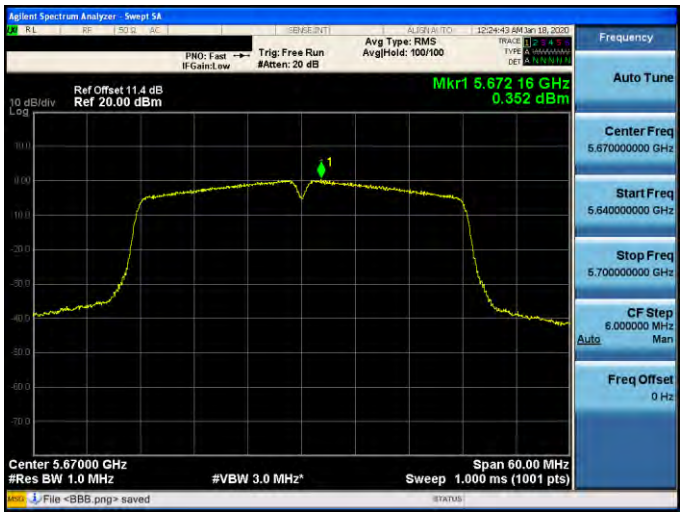
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-0	
5260 MHz	
5280 MHz	
5320 MHz	

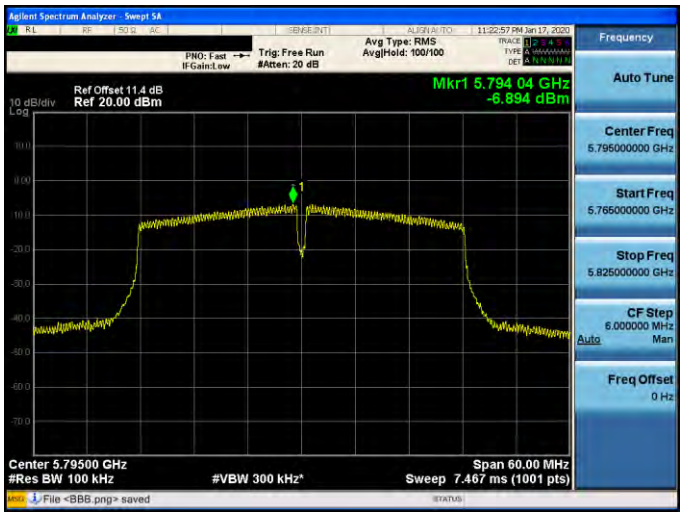
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-0	
5500 MHz	
5560 MHz	
5700 MHz	

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	

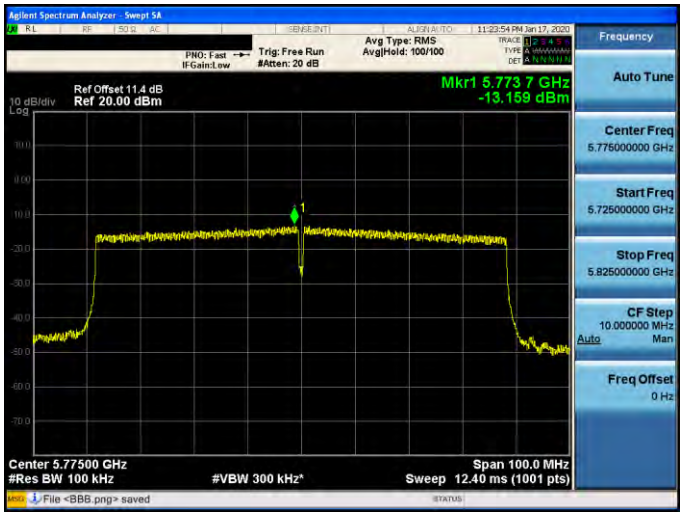
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5190 MHz	
5230 MHz	

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5270 MHz	
5310 MHz	

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5510 MHz	
5550 MHz	
5670 MHz	

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5755 MHz	
5795 MHz	

Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode _ ANT-0	
5210 MHz	
5290 MHz	
5530 MHz	

Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode _ ANT-0	
5775 MHz	

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