APPENDIX REPORT

Project No.	SHT2012028501EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20120285011	Model No.	e360
Start test date	2020/12/23	Finish date	2020/12/23
Temperature	23.5°C	Humidity	49%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

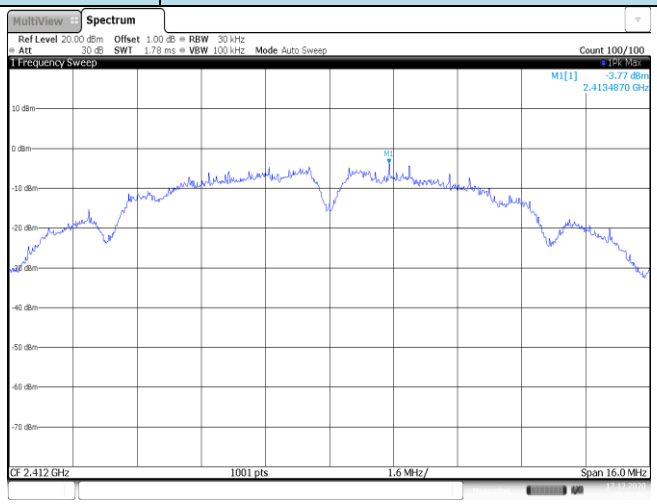
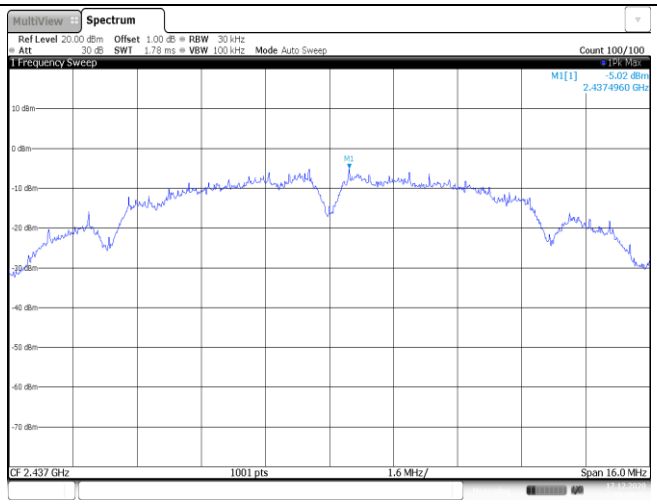
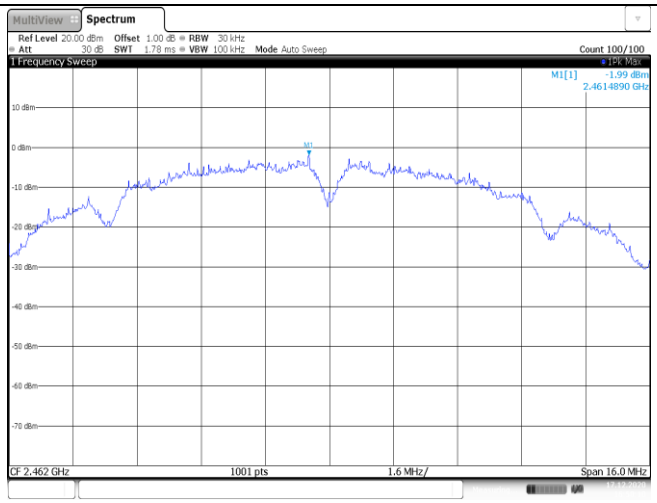
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

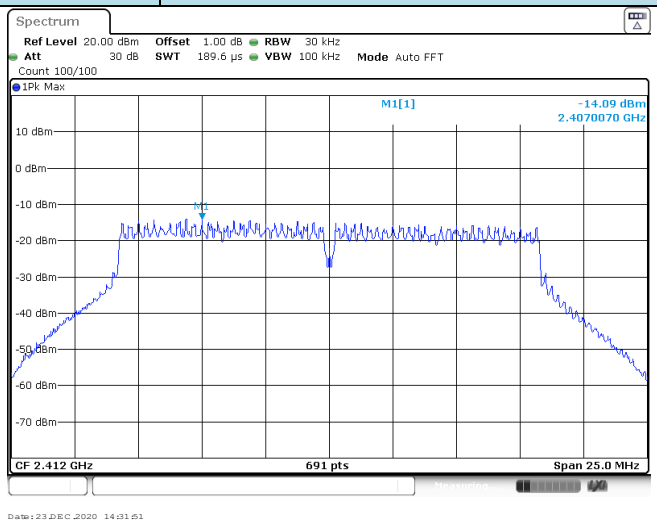
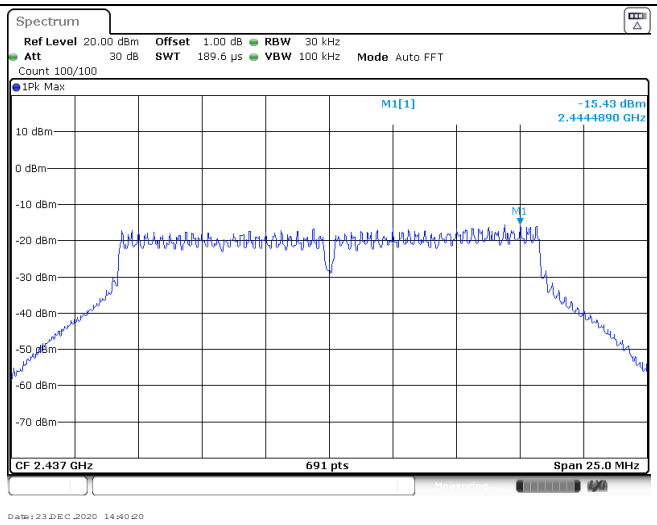
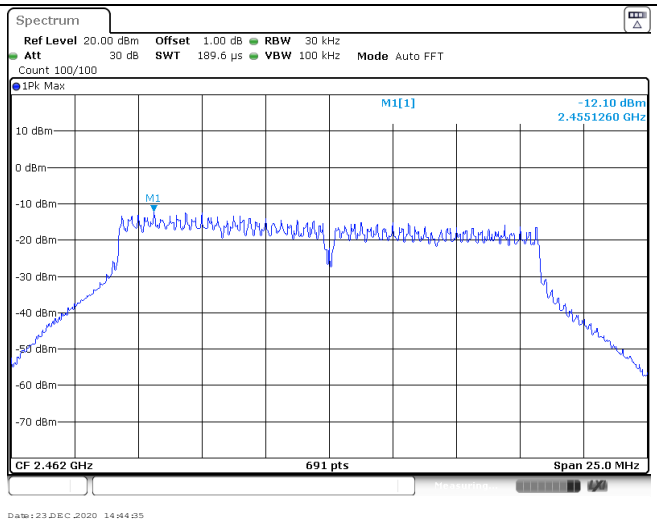
Appendix A: Conducted Peak Output Power

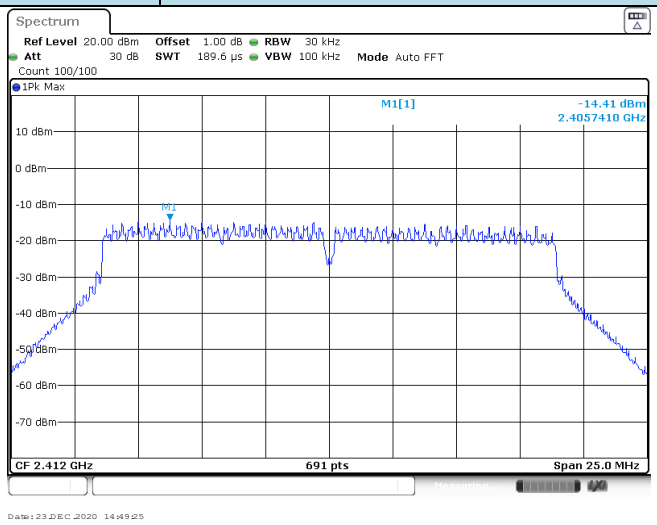
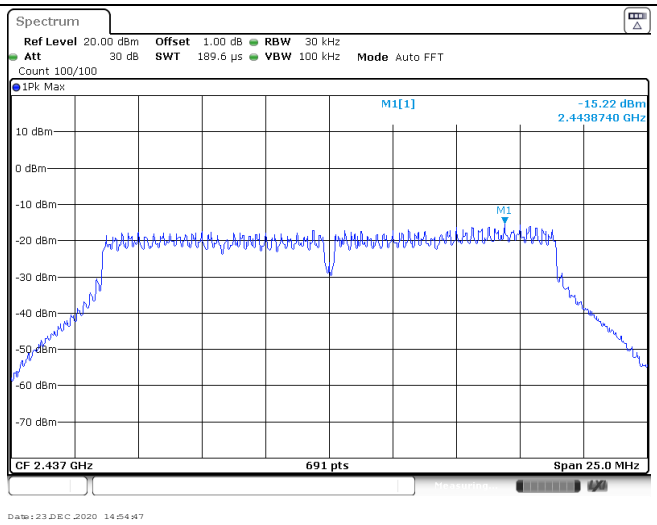
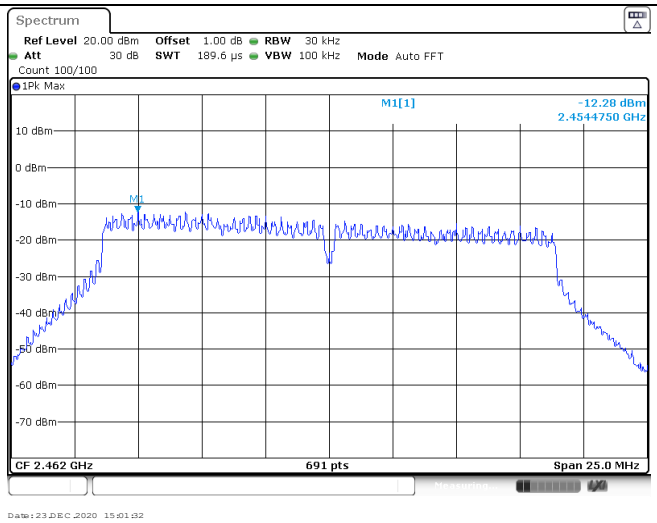
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	10.45	7.97	≤ 30.00	Pass
	06	9.72	7.29		
	11	12.54	10.09		
802.11g	01	9.05	6.52	≤ 30.00	Pass
	06	8.86	5.01		
	11	11.32	7.38		
802.11n (HT20)	01	10.46	6.67	≤ 30.00	Pass
	06	8.93	5.24		
	11	11.80	8.00		
802.11n(HT40)	03	9.95	5.87	≤ 30.00	Pass
	06	10.05	6.25		
	09	11.29	7.16		

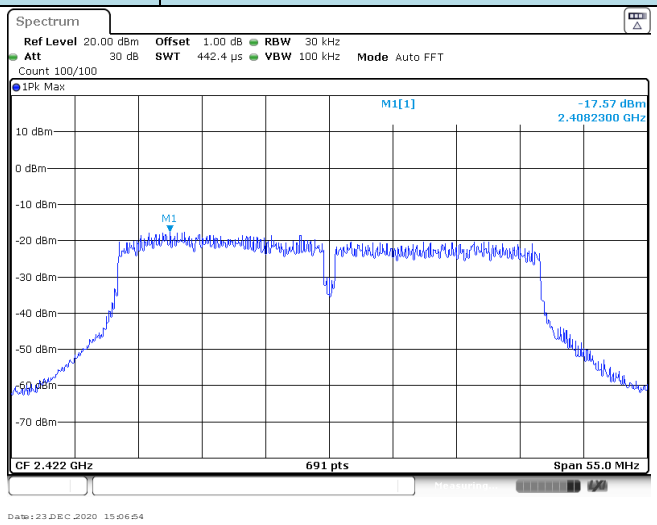
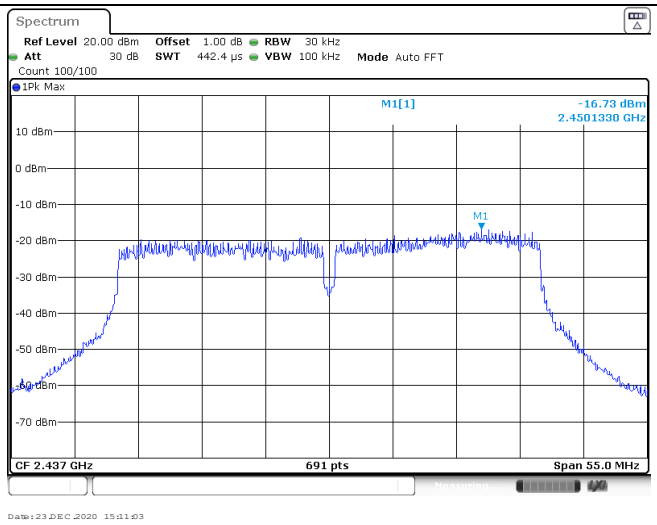
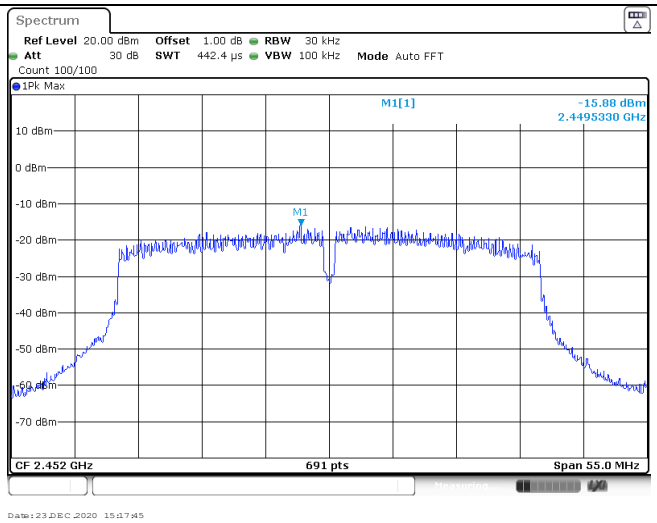
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-3.77	≤8.00	Pass
	06	-5.02		
	11	-1.99		
802.11g	01	-14.09	≤8.00	Pass
	06	-15.43		
	11	-12.10		
802.11n(HT20)	01	-14.41	≤8.00	Pass
	06	-15.22		
	11	-12.28		
802.11n(HT40)	03	-17.57	≤8.00	Pass
	06	-16.73		
	09	-15.88		

Type:	802.11 b
CH01	
CH06	
CH11	

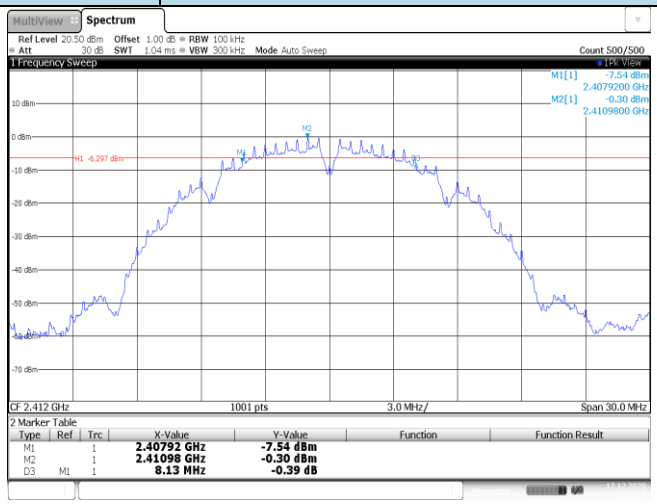
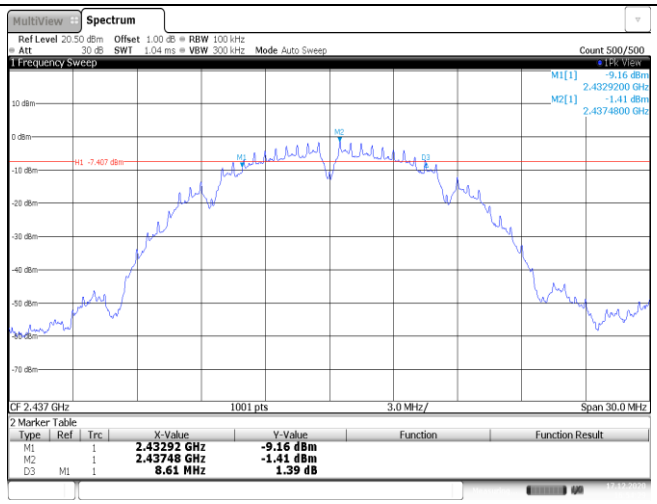
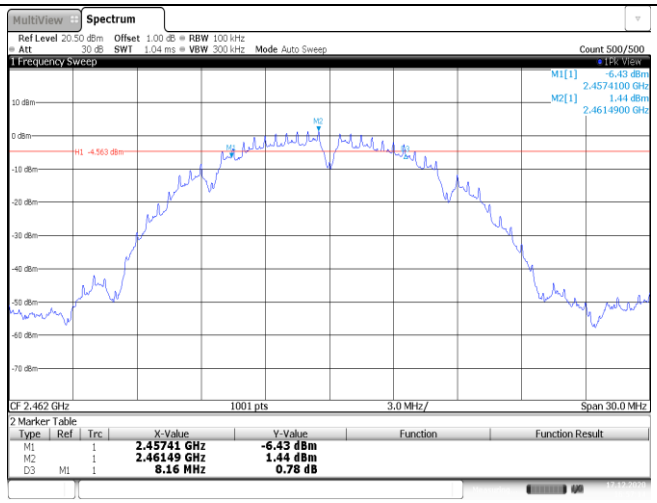
Type:	802.11 g
CH01	
CH06	
CH11	

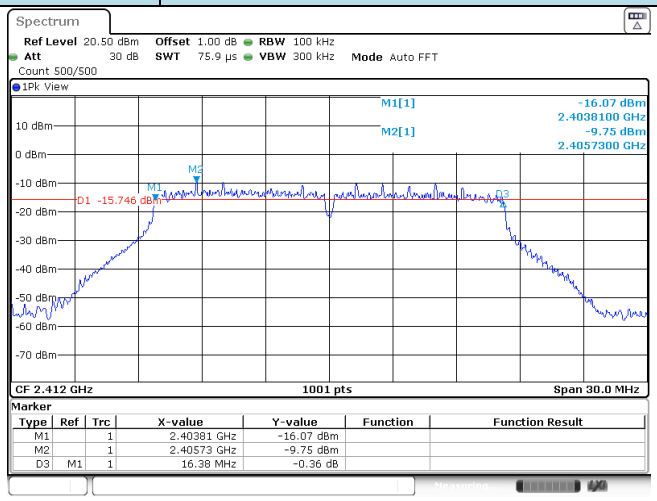
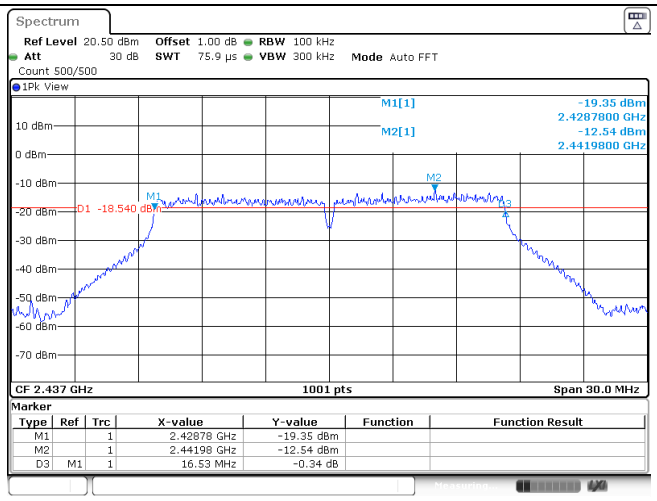
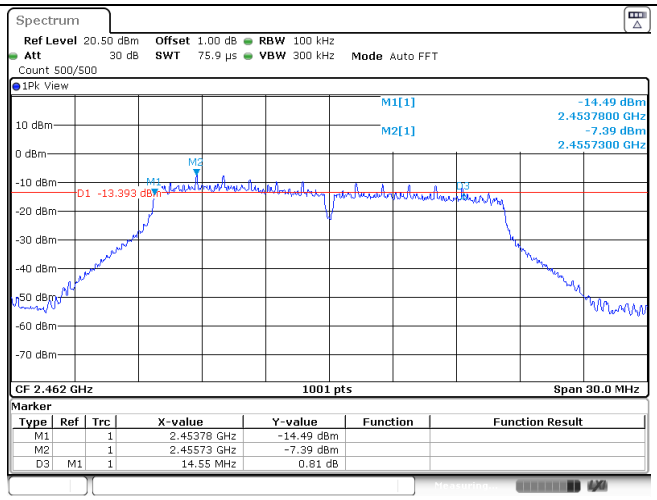
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

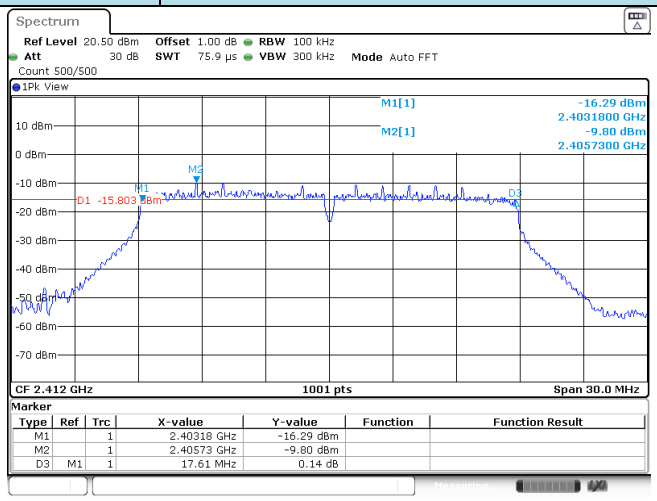
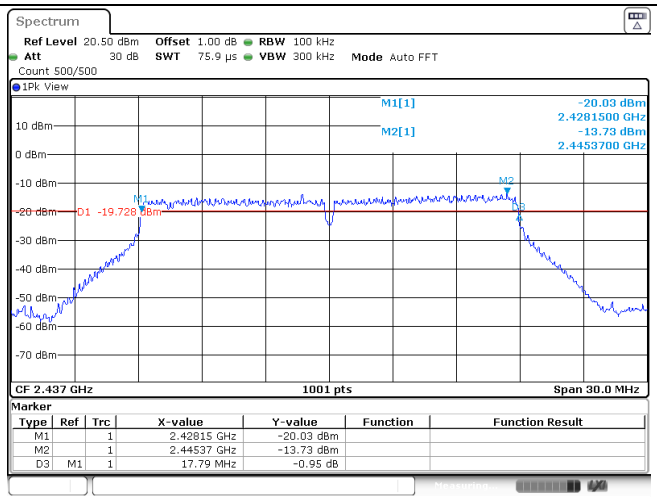
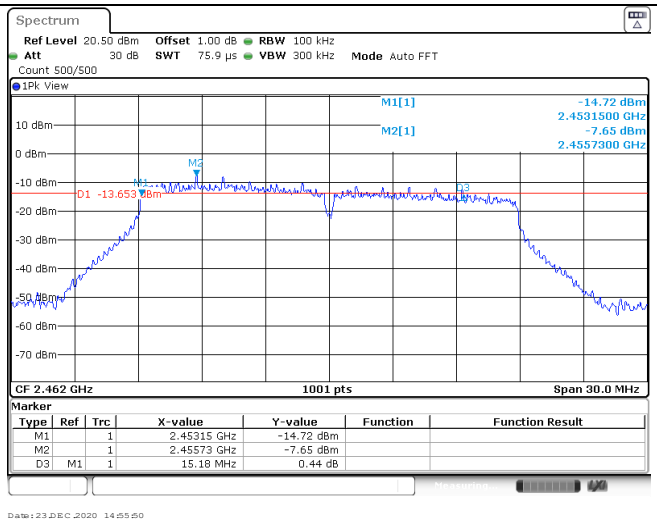
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

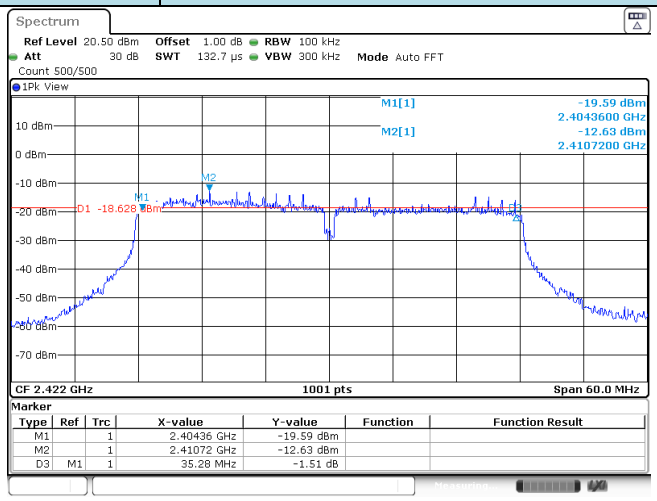
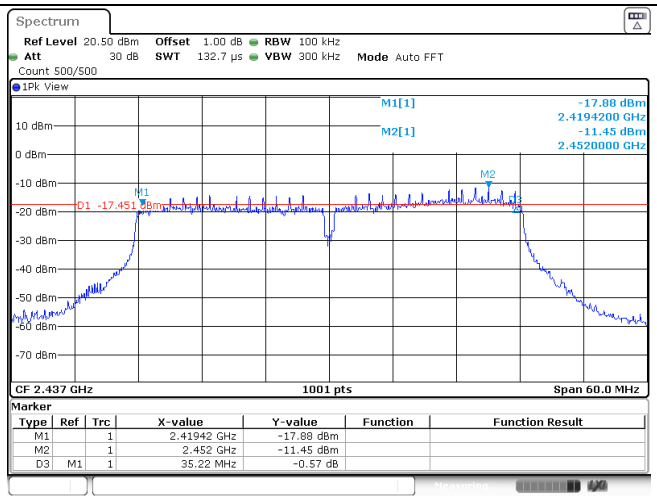
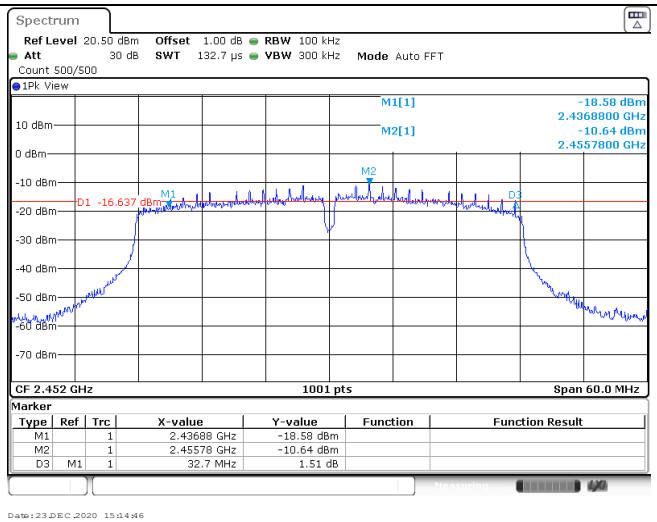
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.13	≥0.5	Pass
	06	8.61		
	11	8.16		
802.11g	01	16.38	≥0.5	Pass
	06	16.53		
	11	14.55		
802.11n(HT20)	01	17.61	≥0.5	Pass
	06	17.79		
	11	15.18		
802.11n(HT40)	03	35.28	≥0.5	Pass
	06	35.22		
	09	32.70		

Type:	802.11 b
CH01	
CH06	
CH11	

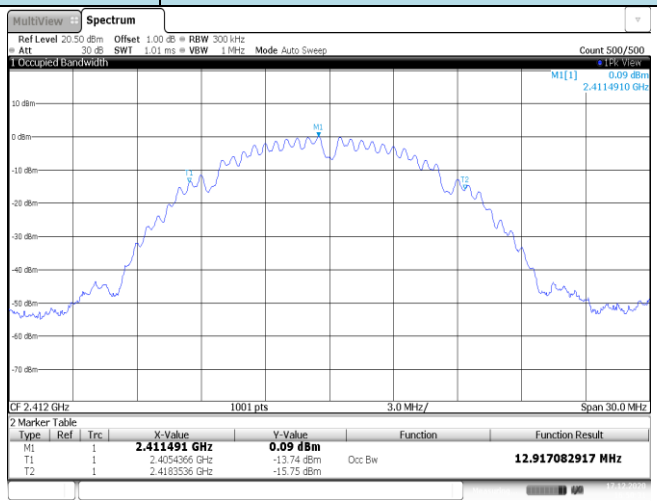
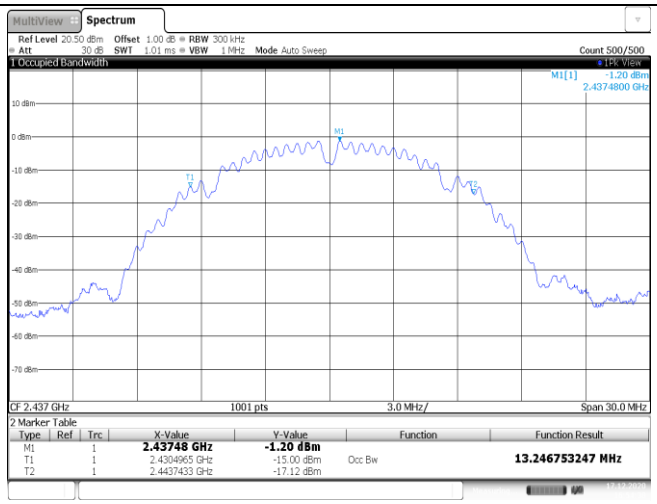
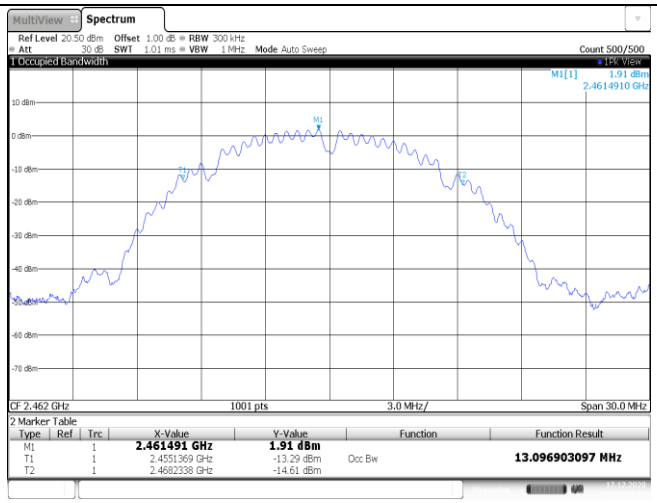
Type:	802.11 g
CH01	
CH06	
CH11	

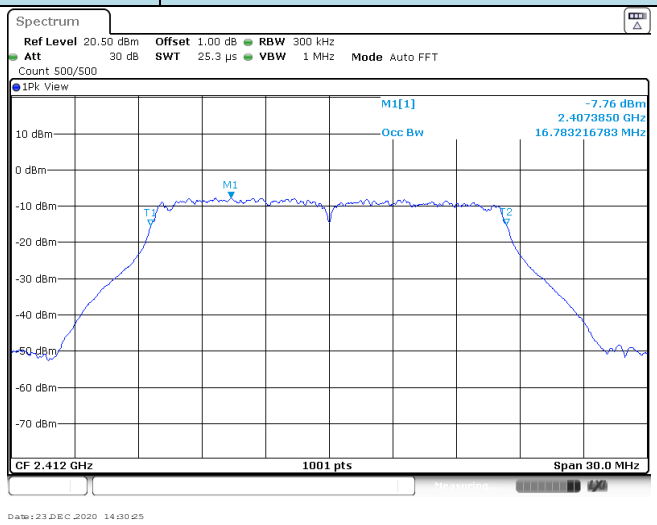
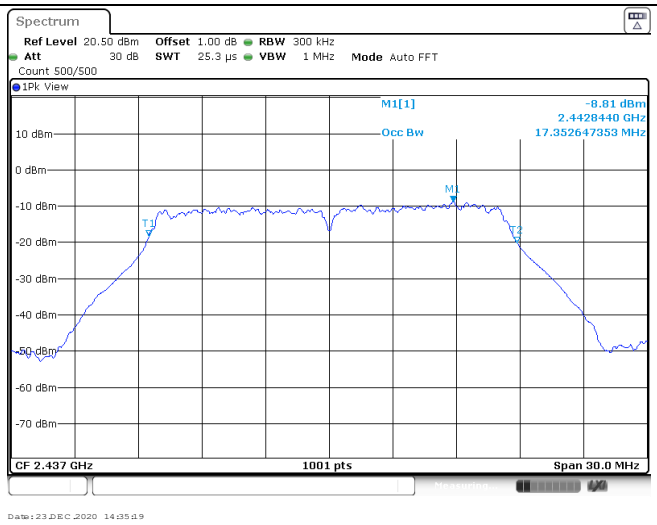
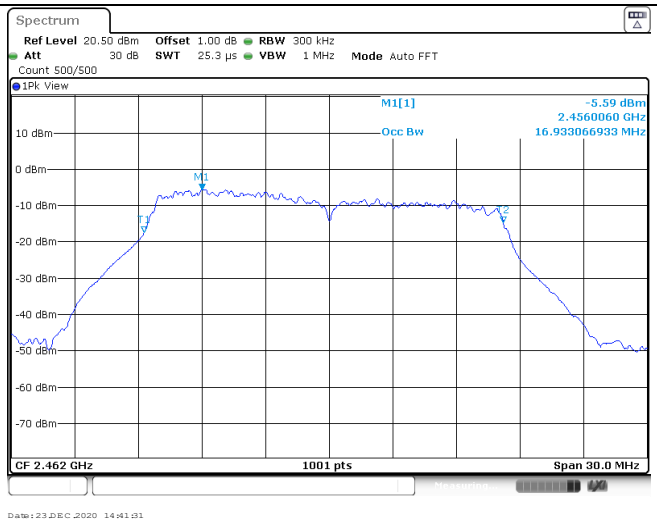
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

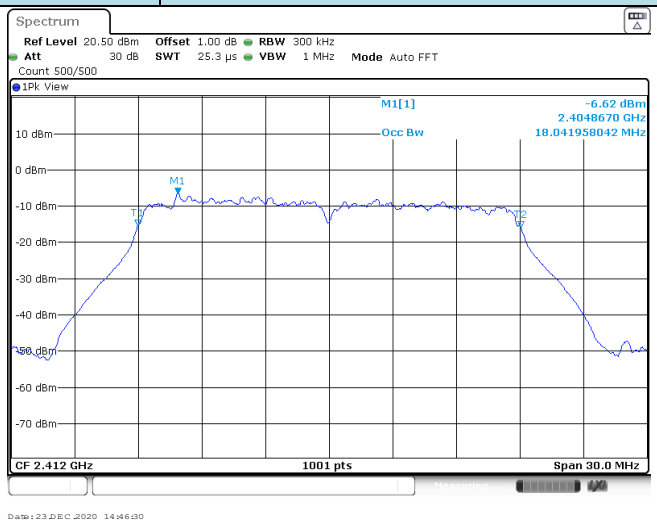
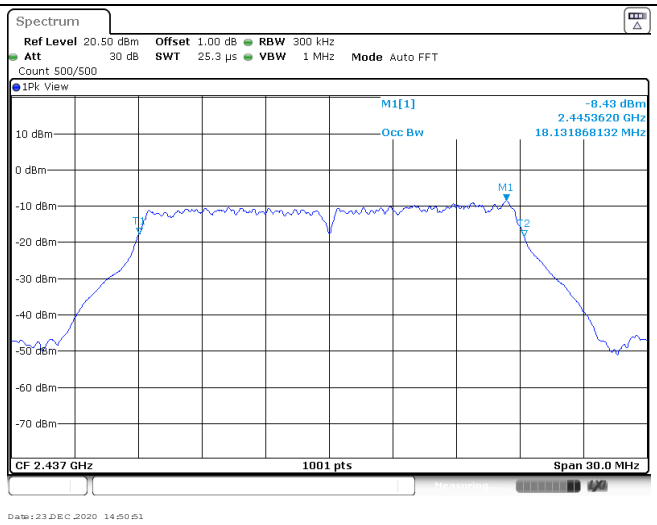
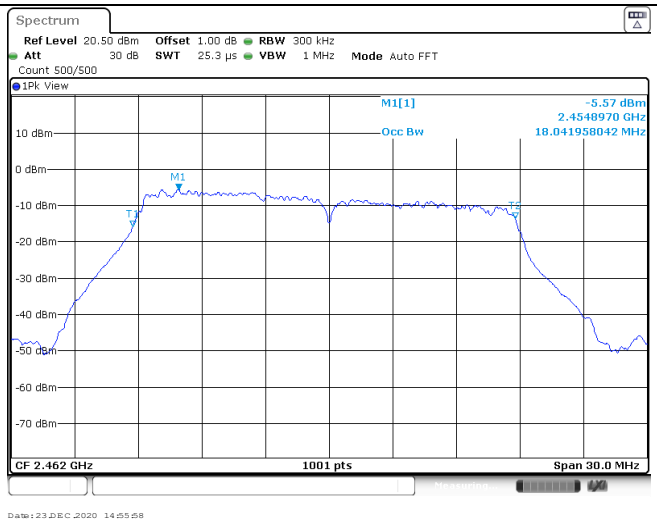
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

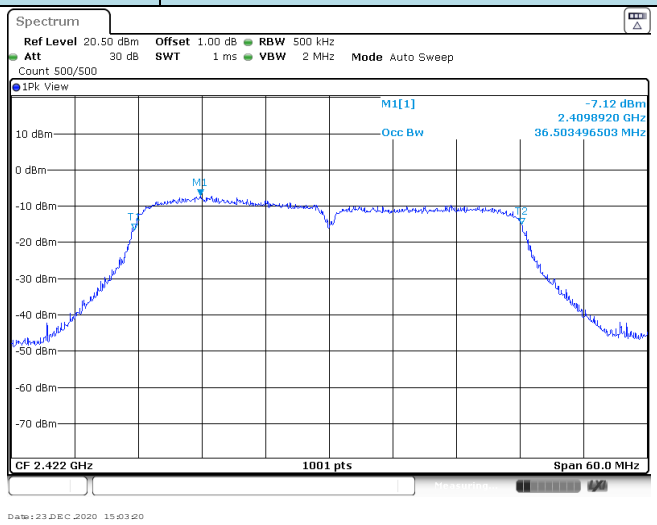
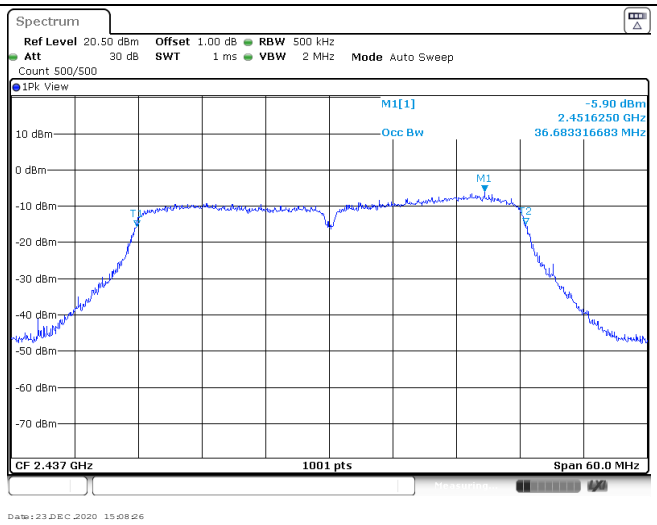
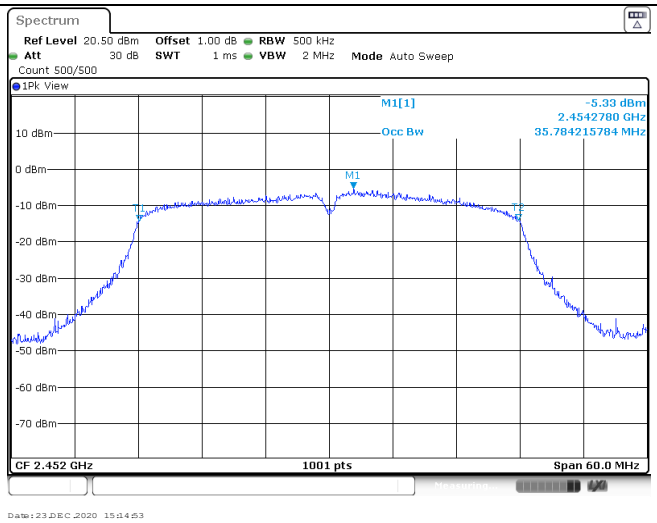
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.92	-	Pass
	06	13.25		
	11	13.10		
802.11g	01	16.78	-	Pass
	06	17.35		
	11	16.93		
802.11n(HT20)	01	18.04	-	Pass
	06	18.13		
	11	18.04		
802.11n(HT40)	03	36.50	-	Pass
	06	36.68		
	09	35.78		

Type:	802.11 b
CH01	
CH06	
CH11	

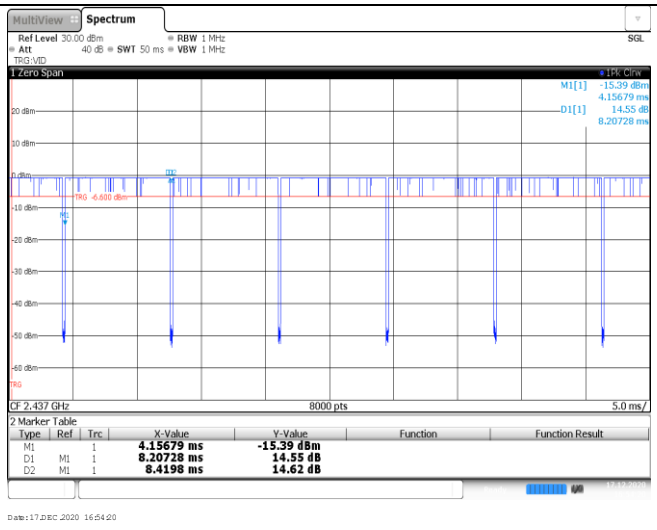
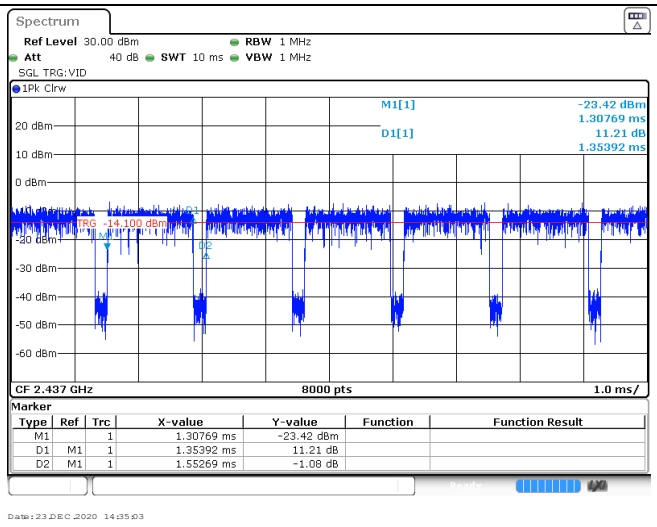
Type:	802.11 g
CH01	
CH06	
CH11	

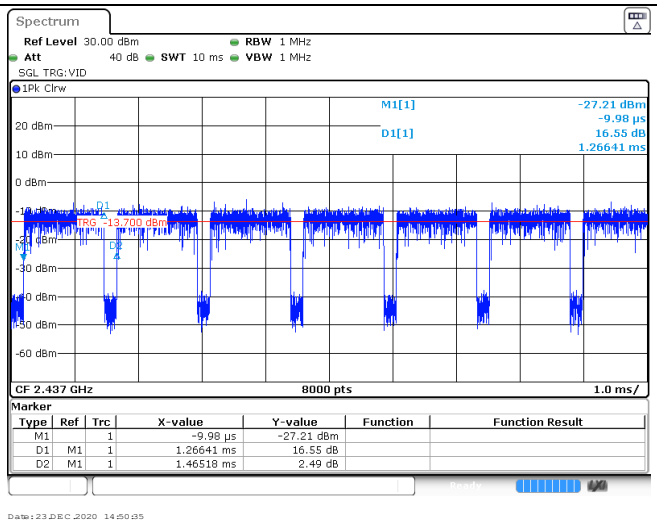
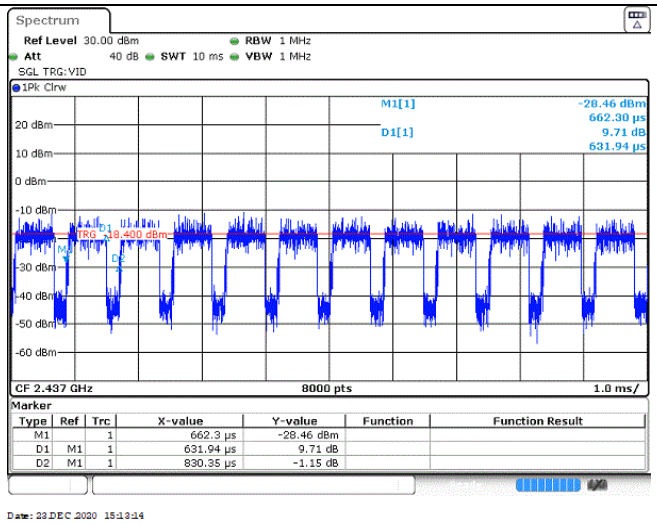
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Type:	802.11n(HT40)
CH03	
CH06	
CH09	

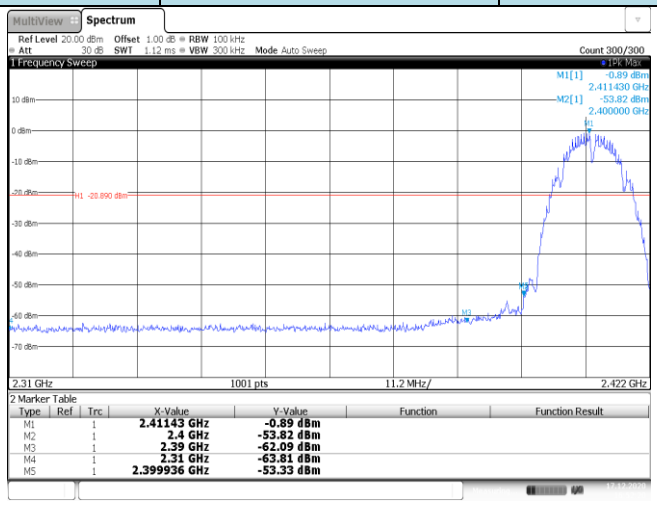
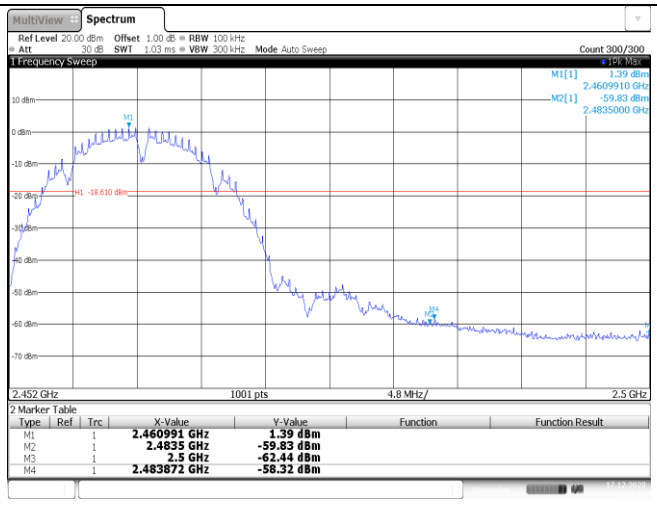
Appendix E：Duty Cycle

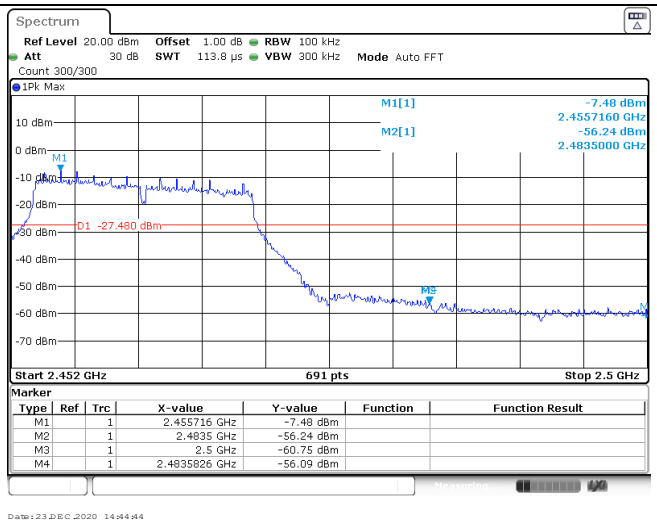
Modulation Type	Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	8.21	8.42	97.5%	0.1
11g	2437	1.35	1.55	87.1%	0.7
11n20	2437	1.27	1.47	86.4%	0.8
11n40	2437	0.63	0.83	75.9%	1.6

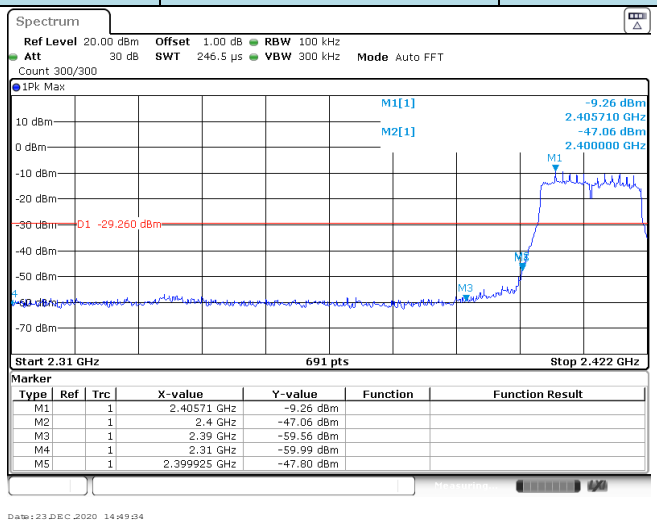
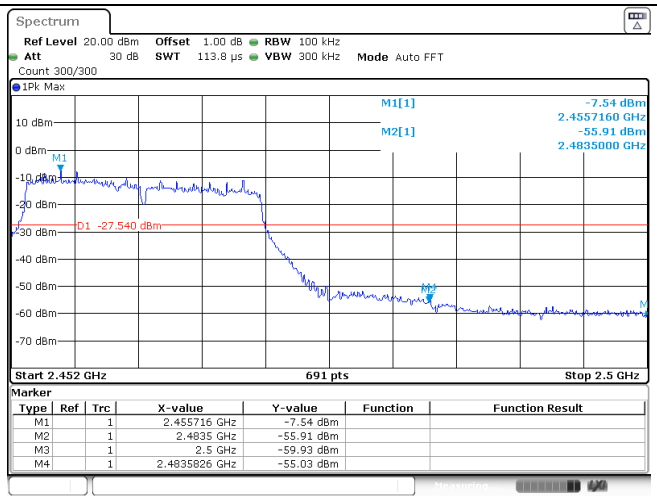
11b	
11g	

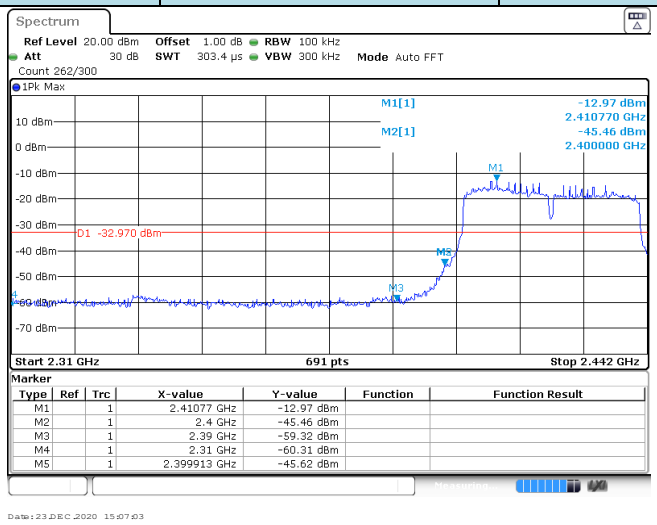
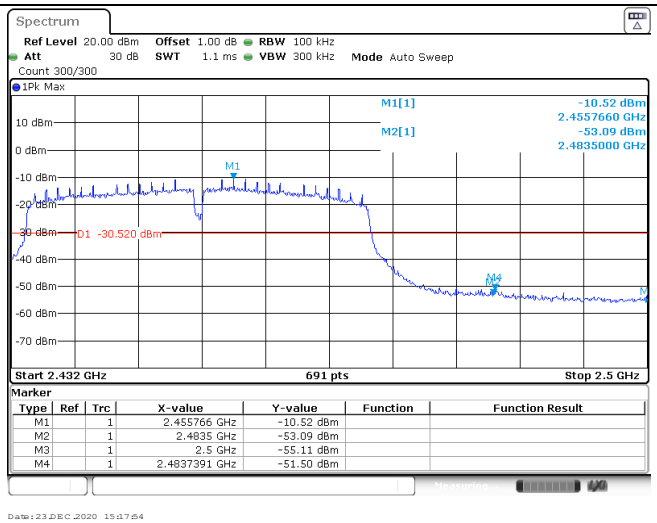
11n20	 Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz SGL TRG:VID 1Pk Clrw M1[1] -27.21 dBm -9.98 µs D1[1] 16.55 dB 1.26641 ms 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm TRG -13.700 dBm CF 2.437 GHz 8000 pts 1.0 ms/ Marker Type Ref Trc X-value Y-value Function Function Result M1 1 -9.98 µs -27.21 dBm D1 M1 1 1.26641 ms 16.55 dB D2 M1 1 1.46518 ms 2.49 dB Date: 23.DEC.2020 14:50:35
11n40	 Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz SGL TRG:VID 1Pk Clrw M1[1] -28.46 dBm 662.30 µs D1[1] 9.71 dB 631.94 µs 20 dBm 10 dBm 0 dBm -10 dBm -30 dBm -40 dBm -50 dBm -60 dBm TRG -18.400 dBm CF 2.437 GHz 8000 pts 1.0 ms/ Marker Type Ref Trc X-value Y-value Function Function Result M1 1 662.3 µs -28.46 dBm D1 M1 1 631.94 µs 9.71 dB D2 M1 1 830.35 µs -1.15 dB Date: 23.DEC.2020 15:13:14

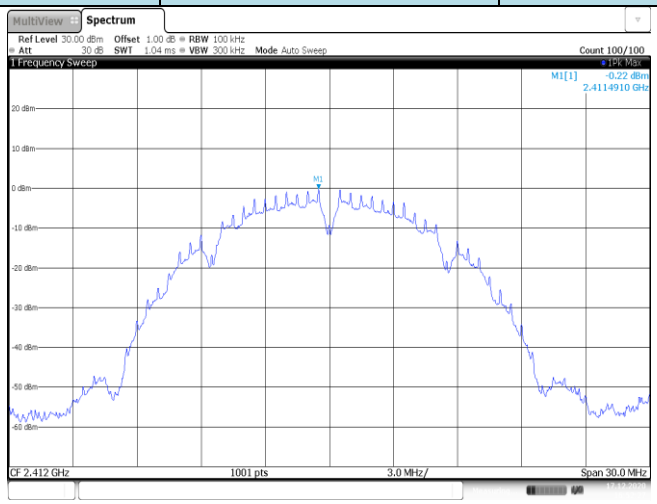
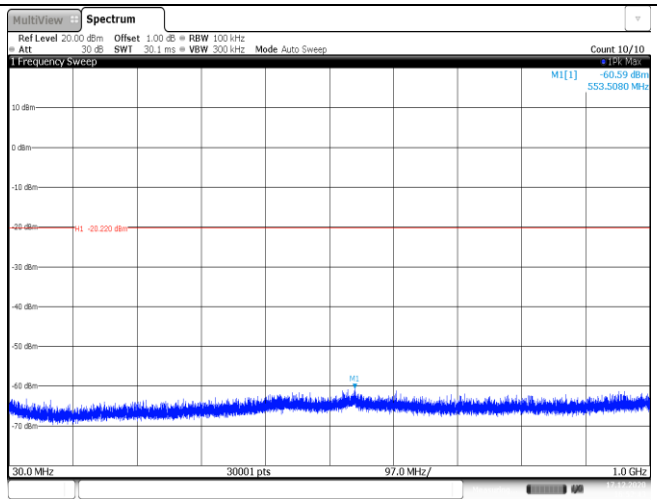
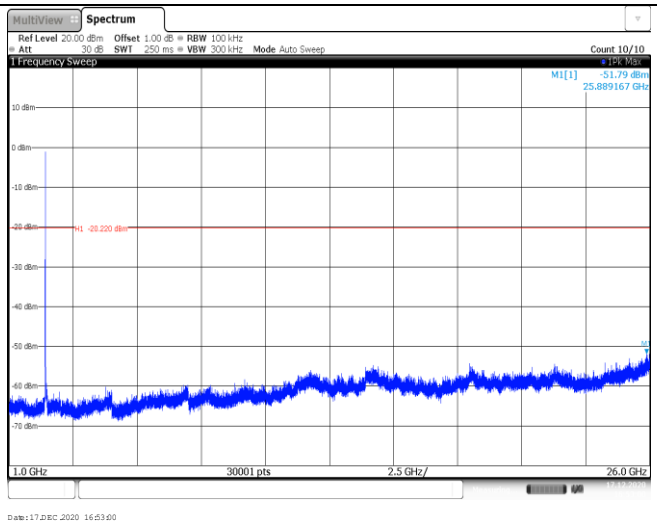
Appendix F：Band edge and Spurious Emissions (conducted)

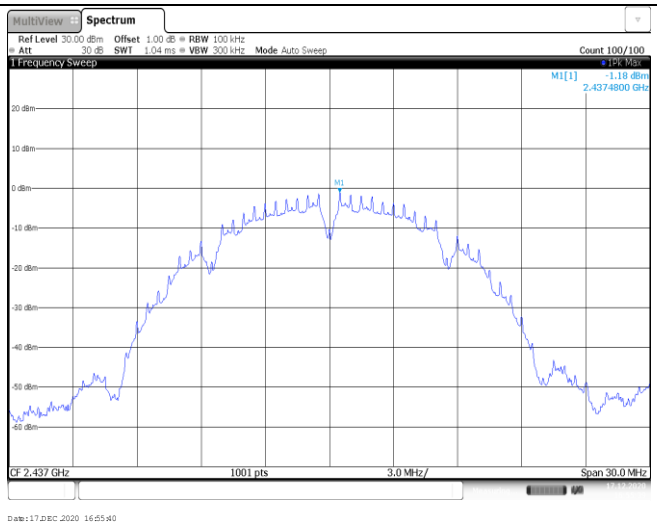
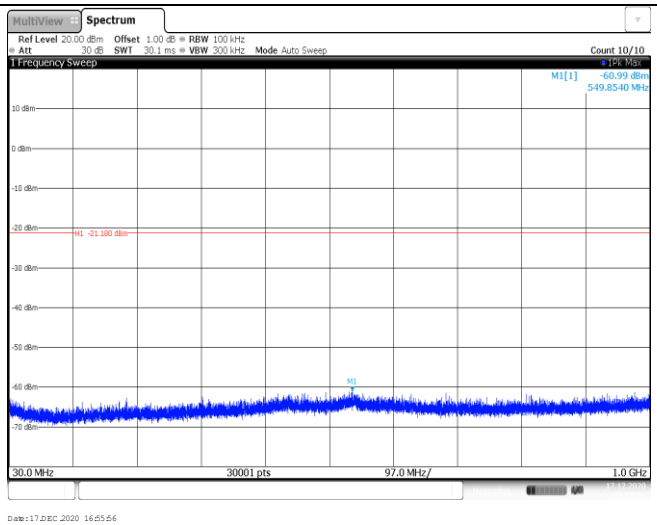
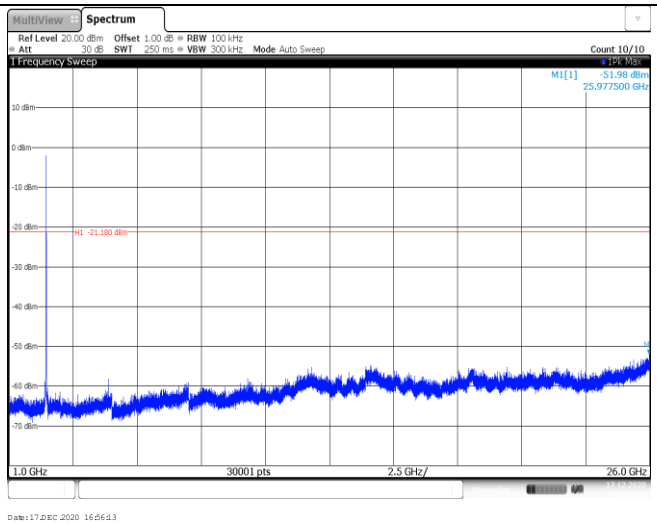
Test Item:	Bandedge	Type:	802.11 b
CH01	
CH11	

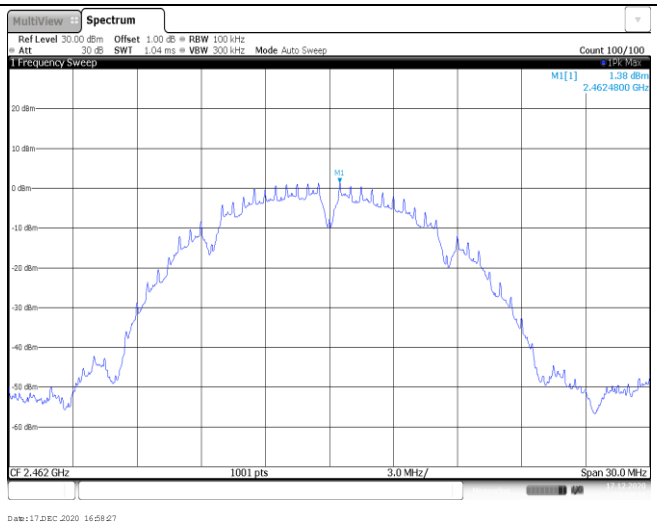
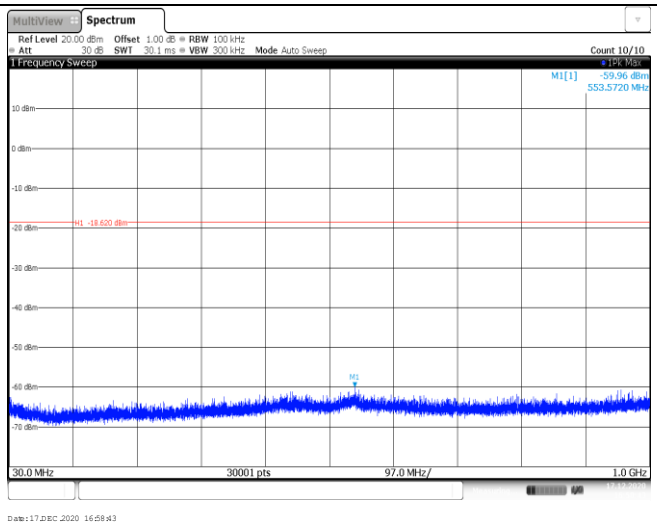
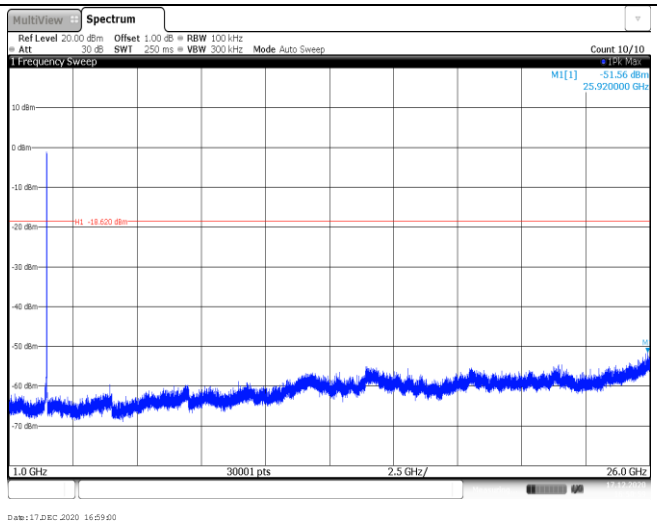
Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

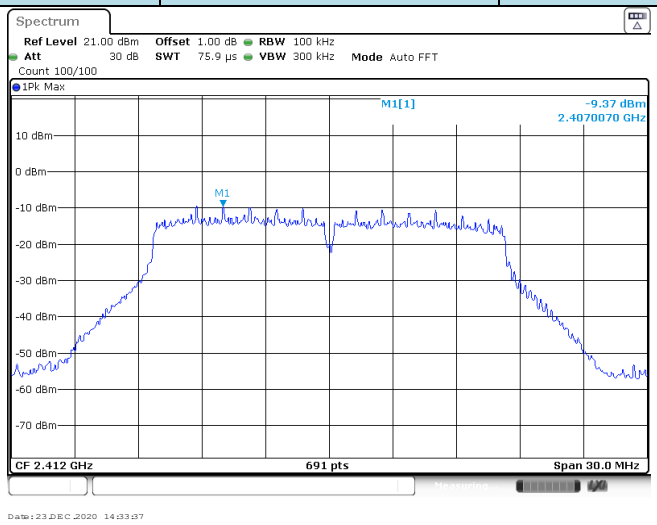
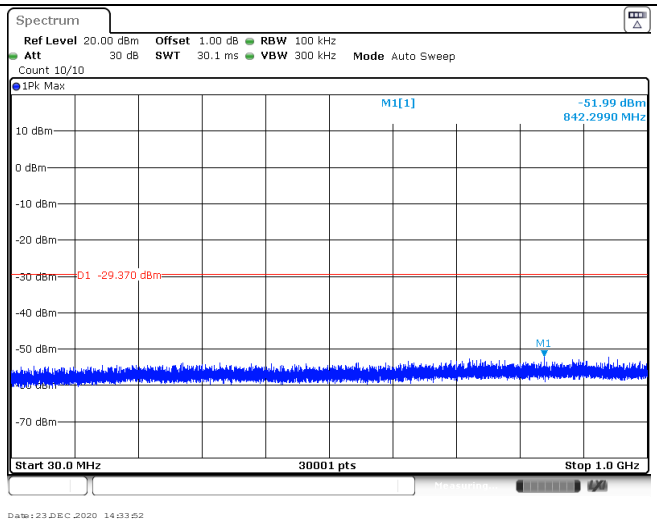
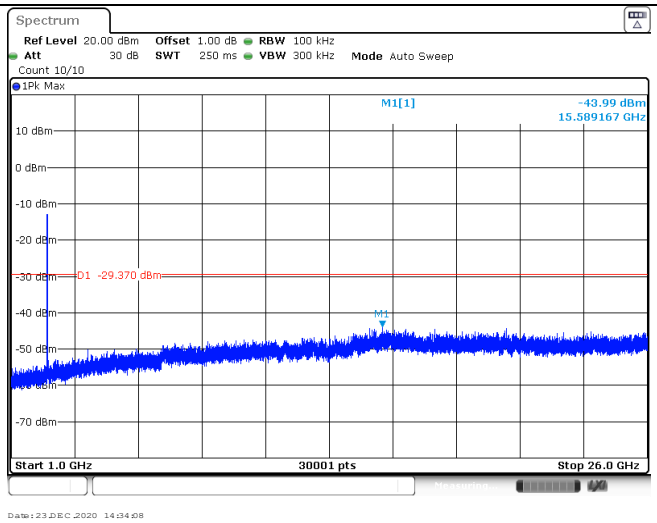
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

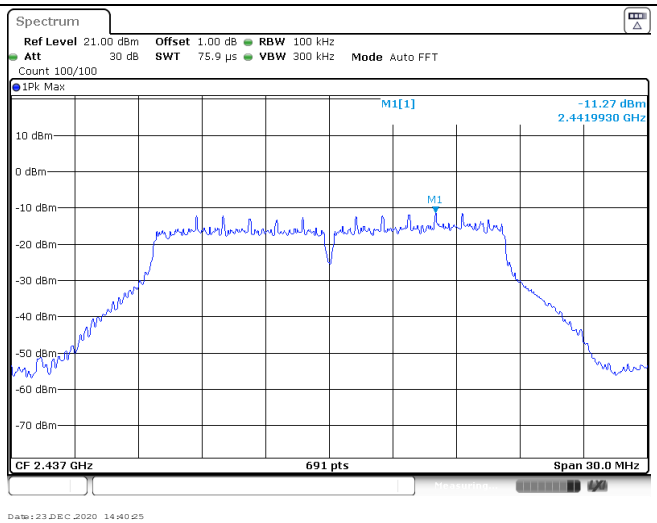
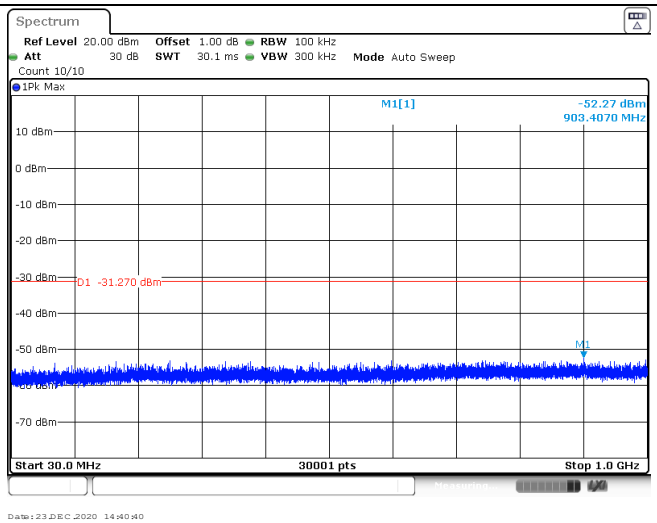
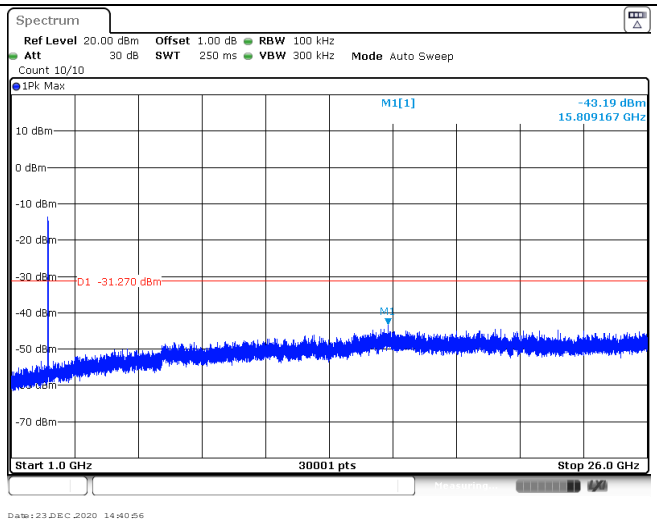
Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

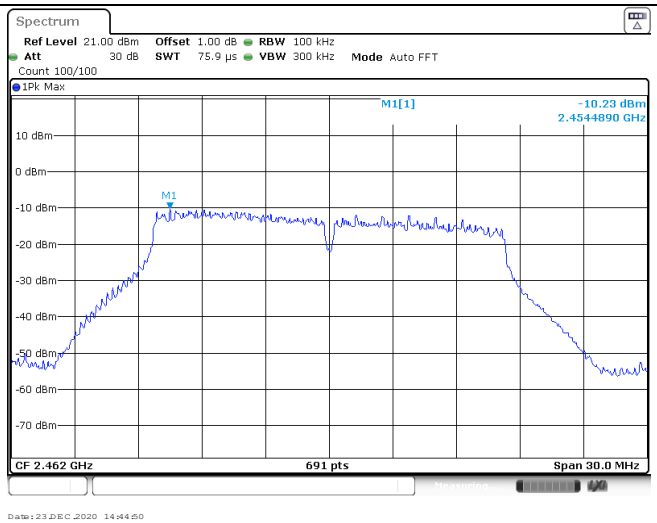
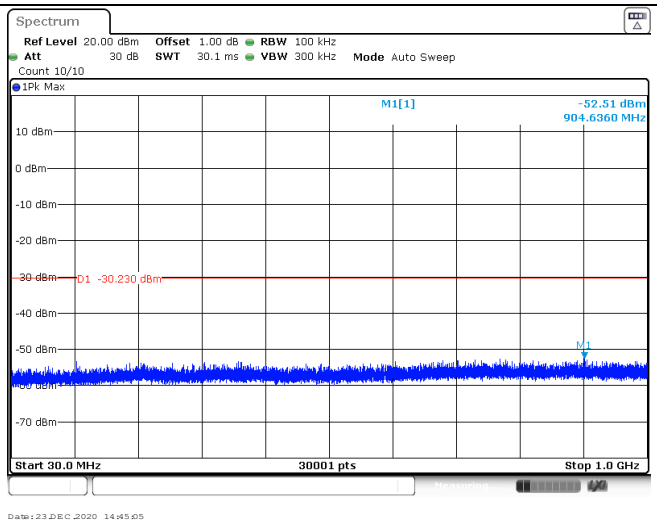
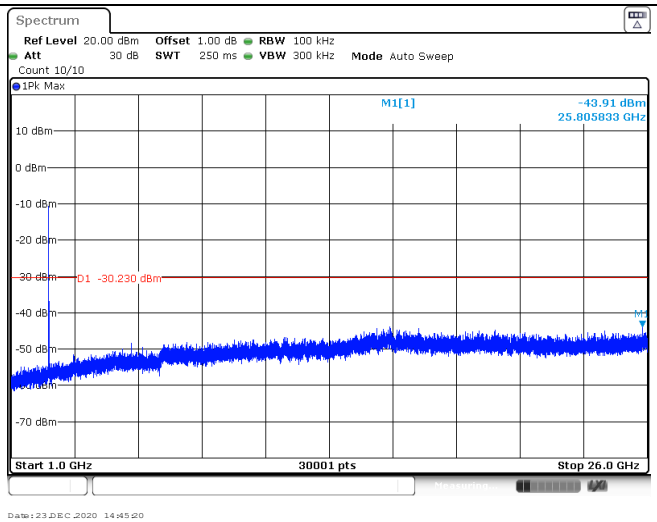
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

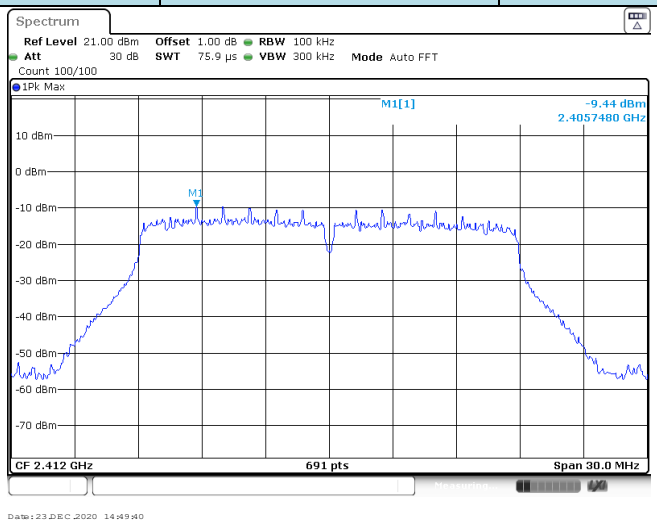
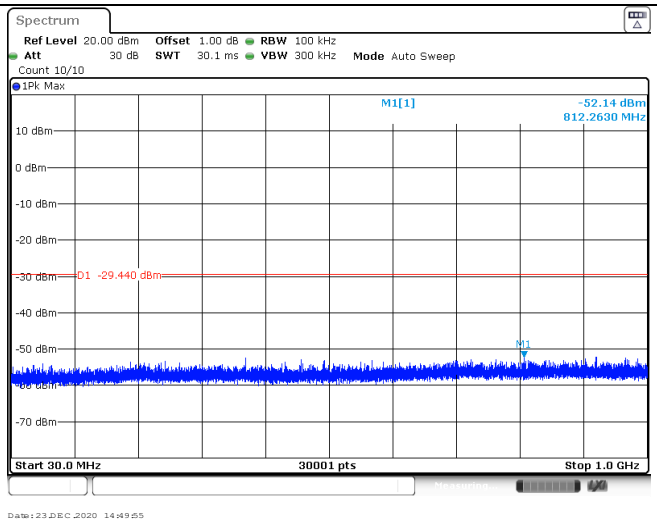
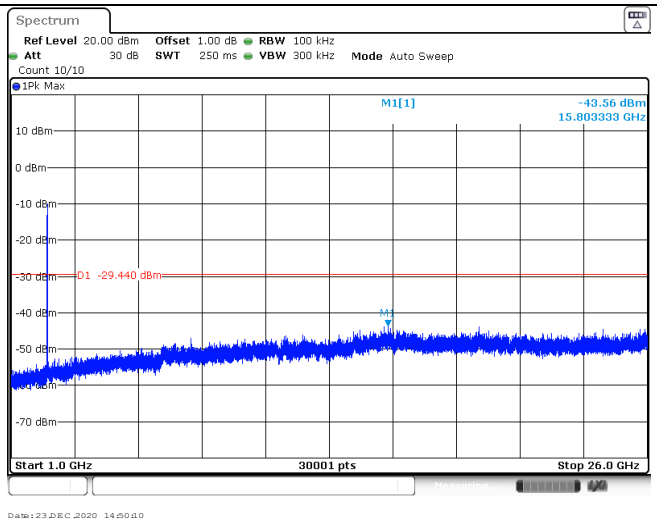
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

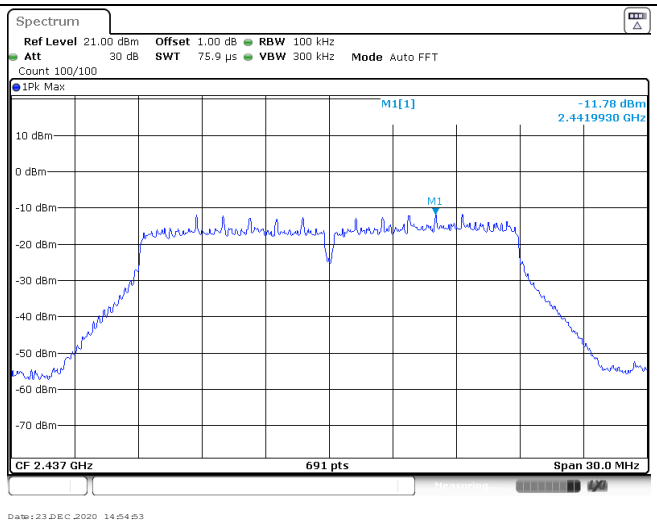
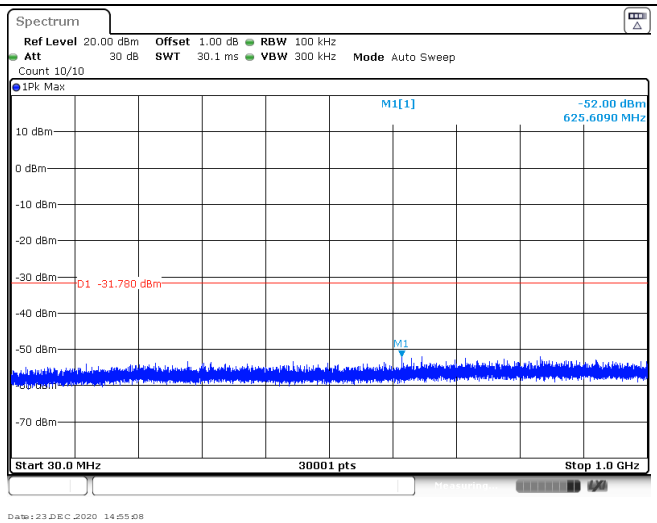
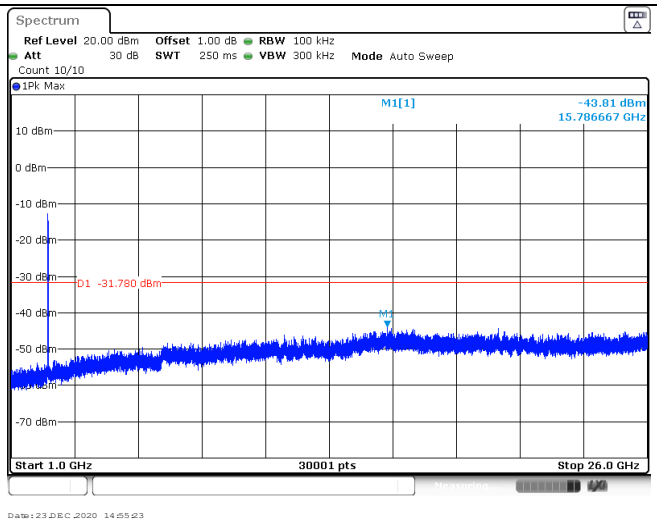
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

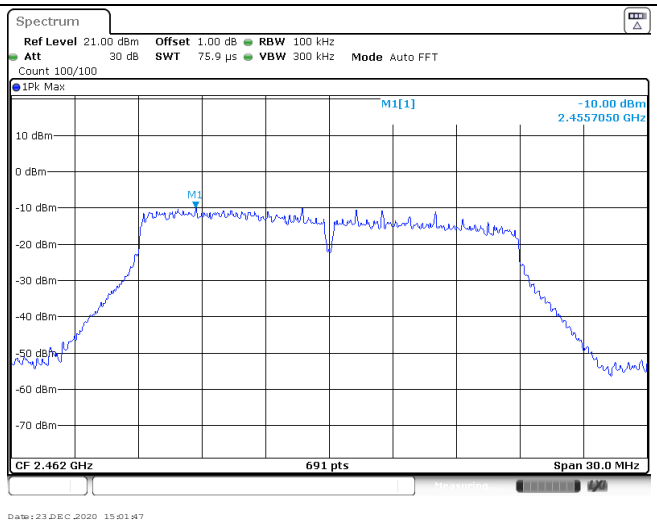
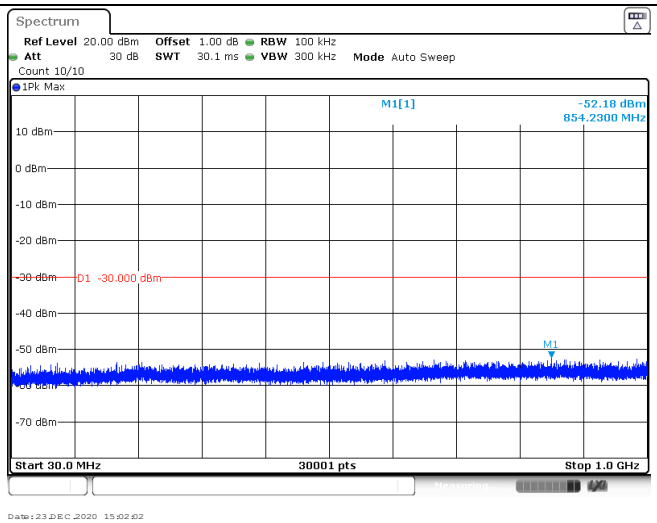
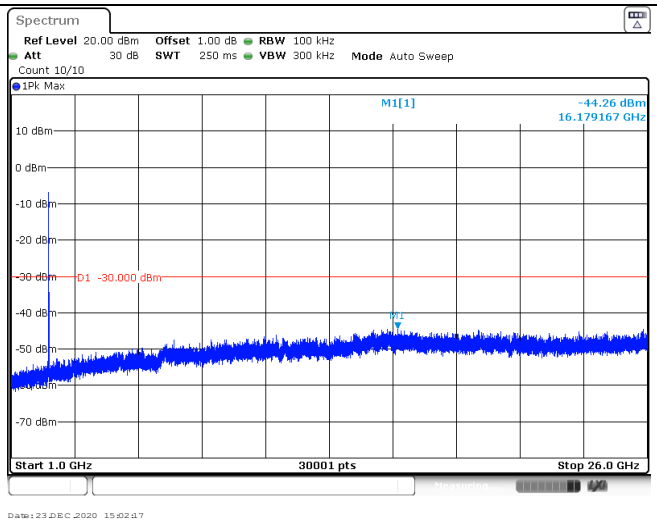
Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

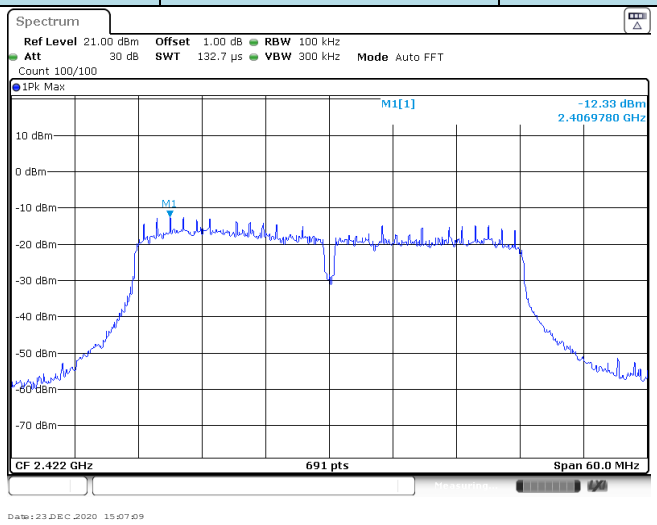
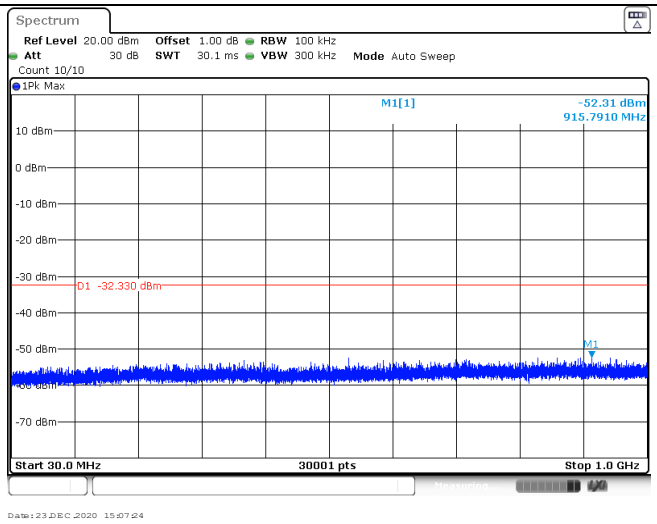
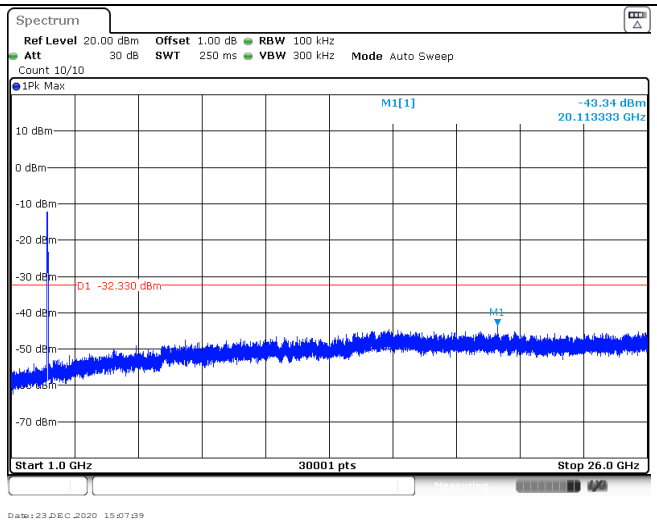
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

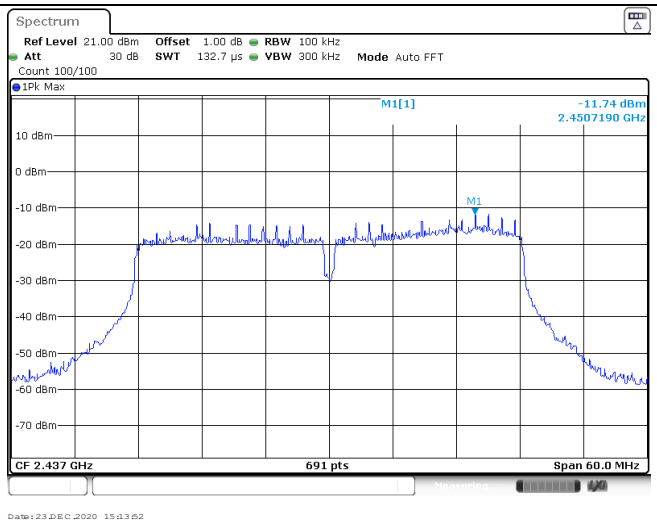
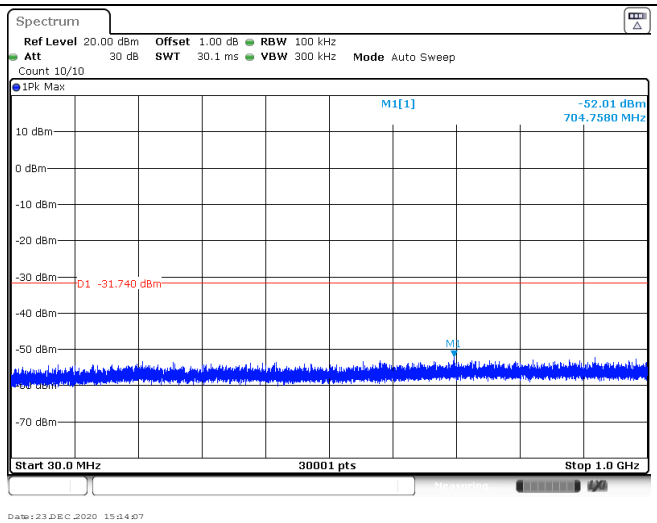
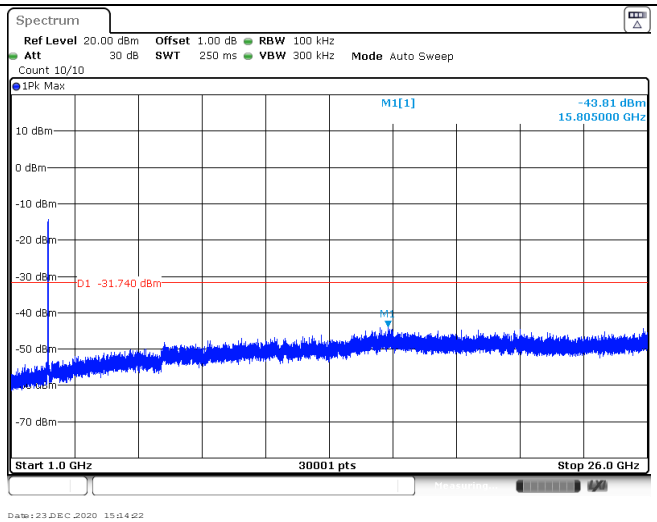
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

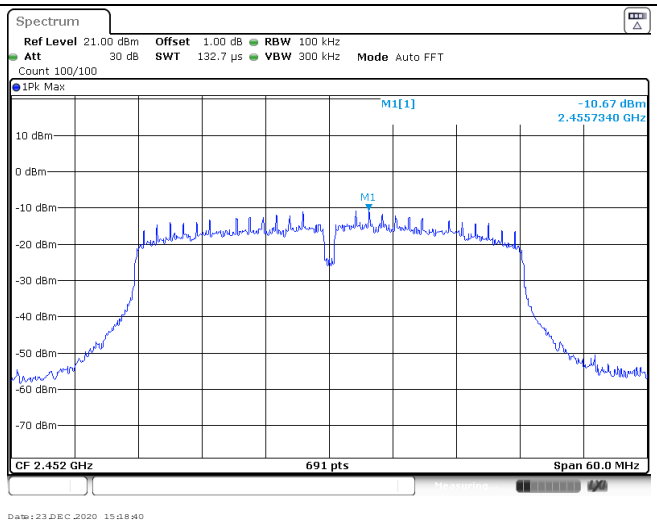
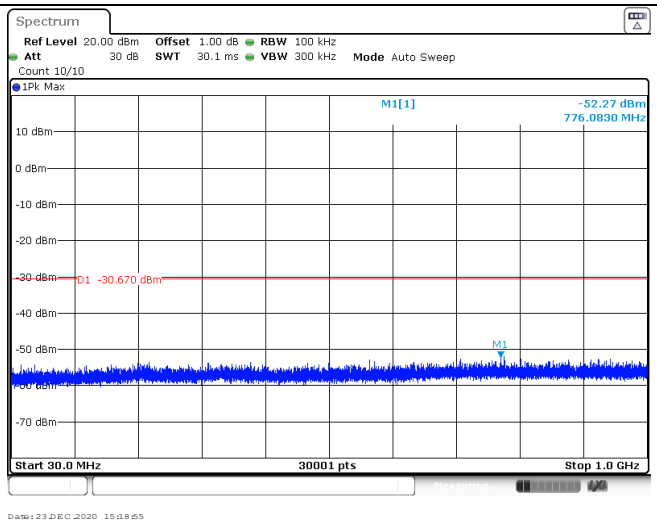
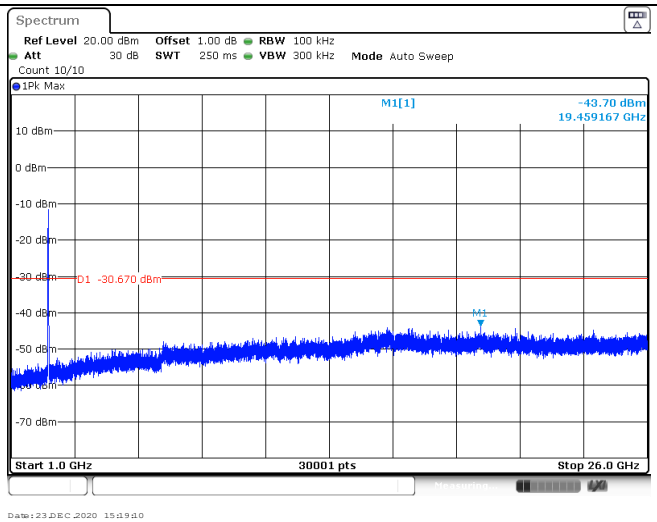
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

Test Item:	SE	Type:	802.11n(HT40)
CH03 Reference level			
CH03 30MHz~1000MHz			
CH03 1GHz~26GHz			

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

CH09 Reference level	
CH09 30MHz~1000MHz	
CH09 1GHz~26GHz	

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