APPENDIX REPORT

Project No.	SHT1912069305EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT19120693012	Model No.	ACRUX
Start test date	2020/1/7	Finish date	2020/1/7
Temperature	25°C	Humidity	50%
Test Engineer	Ximing Huang	Auditor	William.wang

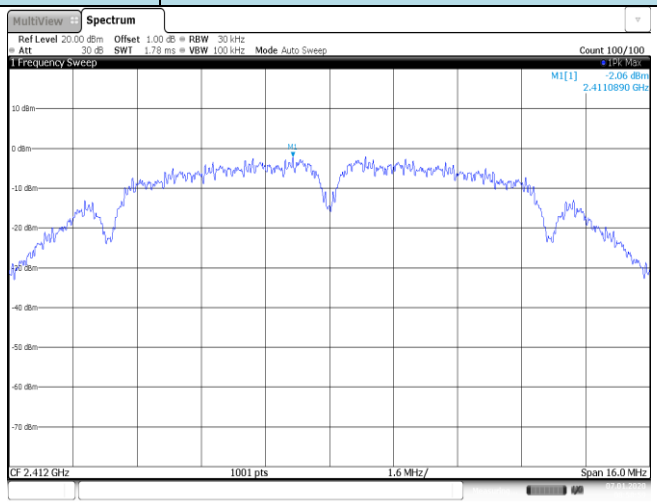
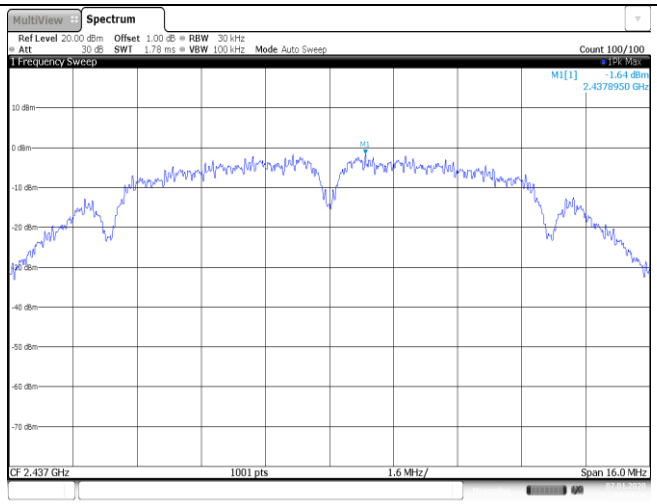
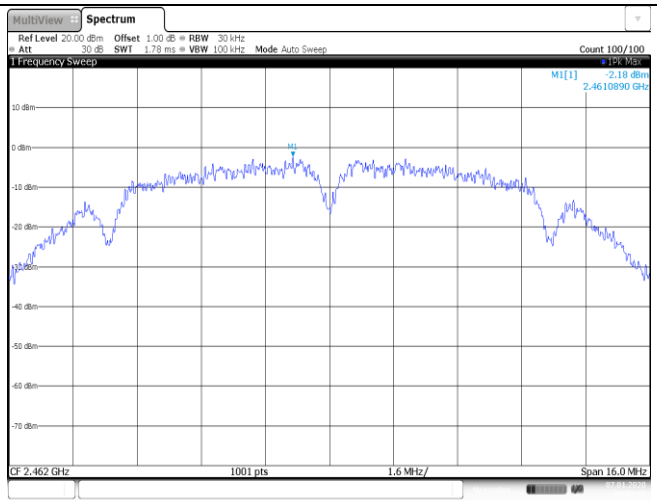
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
E	Band edge and Spurious Emissions (conducted)	PASS

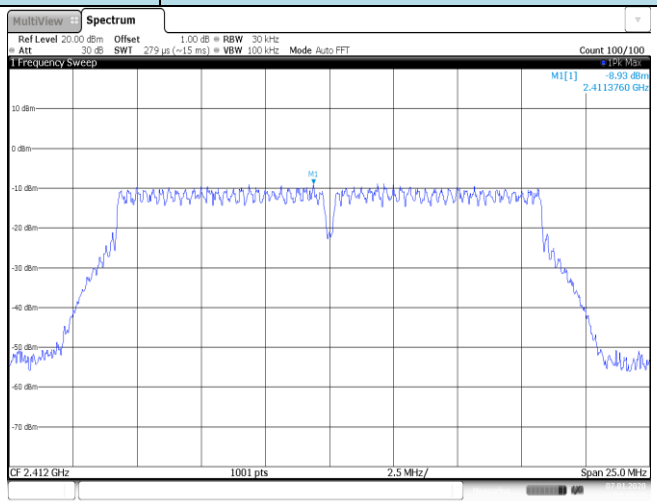
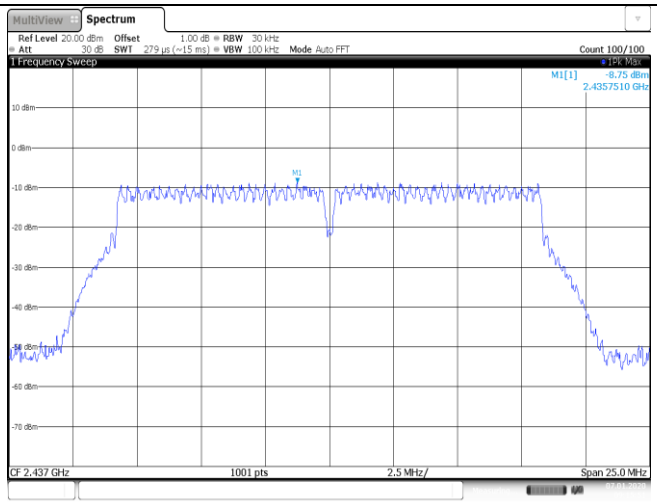
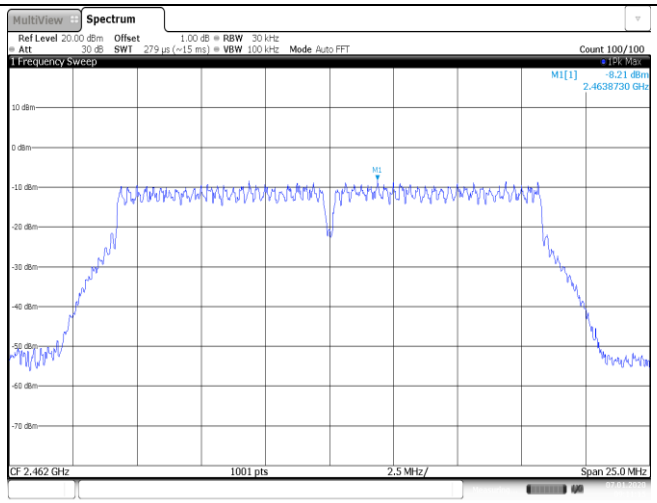
Appendix A：Conducted Peak Output Power

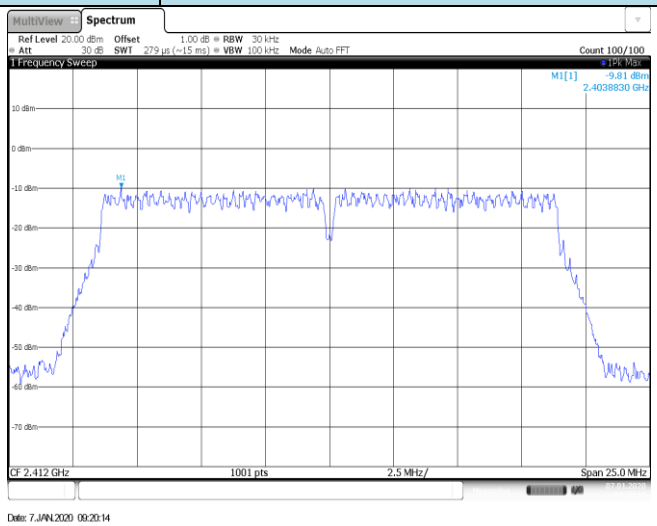
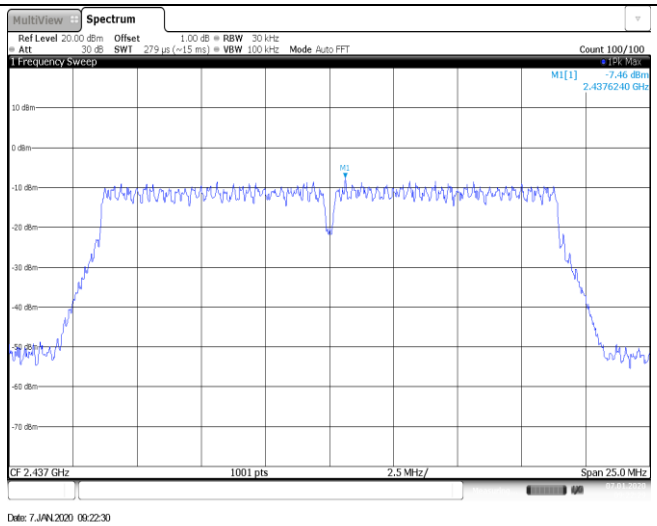
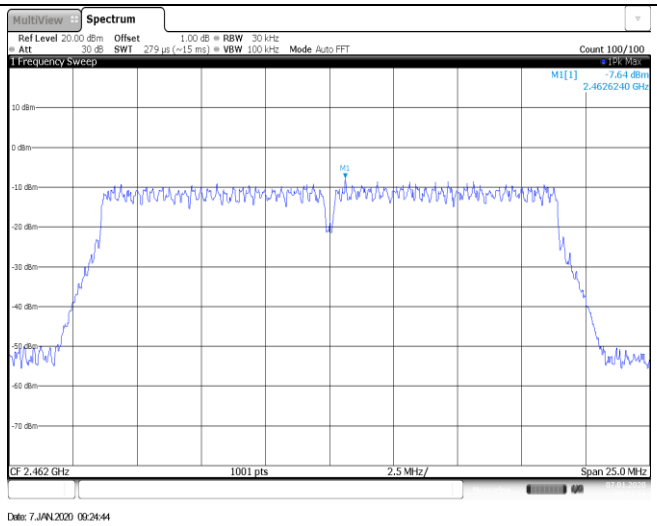
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.85	14.60	≤30.00	Pass
	06	17.39	15.19		
	11	16.75	14.85		
802.11g	01	16.80	14.03	≤30.00	Pass
	06	17.49	14.70		
	11	16.65	14.00		
802.11n(HT20)	01	16.00	13.16	≤30.00	Pass
	06	17.62	14.84		
	11	16.89	14.12		
802.11n(HT40)	03	16.47	13.62	≤30.00	Pass
	06	16.26	13.48		
	09	16.01	13.25		

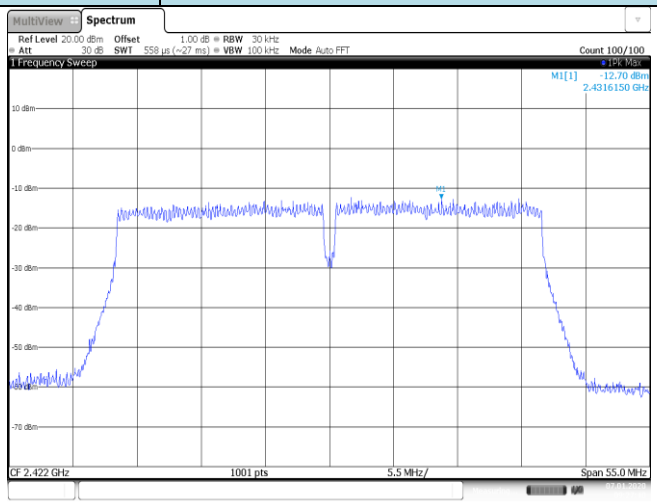
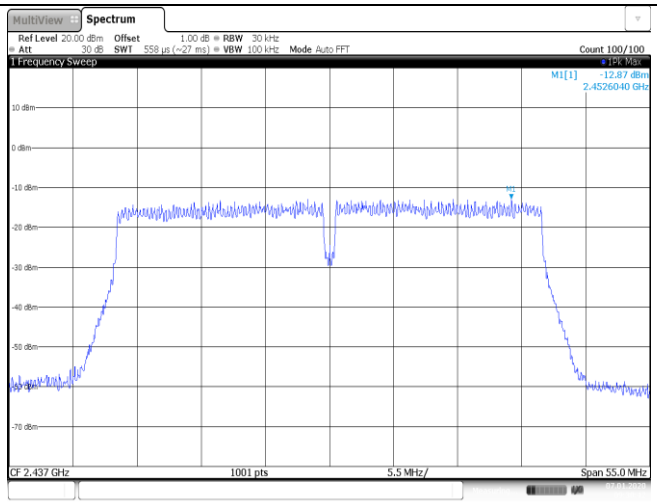
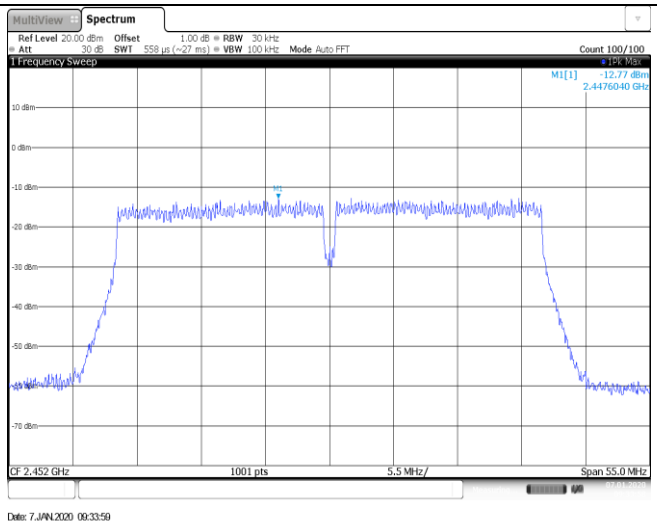
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-2.06	≤8.00	Pass
	06	-1.64		
	11	-2.18		
802.11g	01	-8.93	≤8.00	Pass
	06	-8.75		
	11	-8.21		
802.11n(HT20)	01	-9.81	≤8.00	Pass
	06	-7.46		
	11	-7.64		
802.11n(HT40)	03	-12.70	≤8.00	Pass
	06	-12.87		
	09	-12.77		

Type:	802.11 b
CH01	
CH06	
CH11	

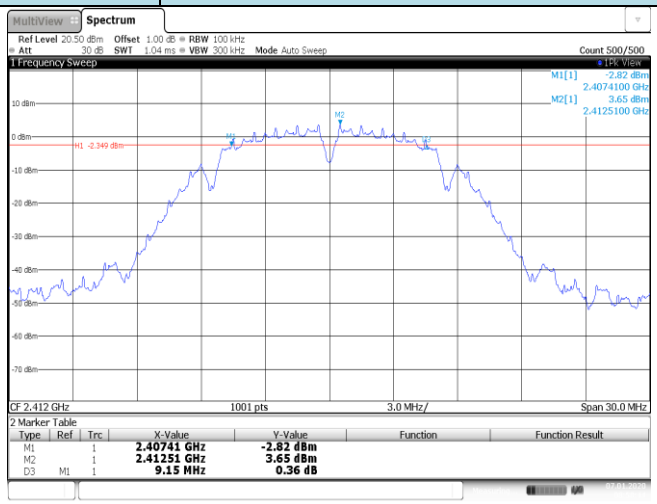
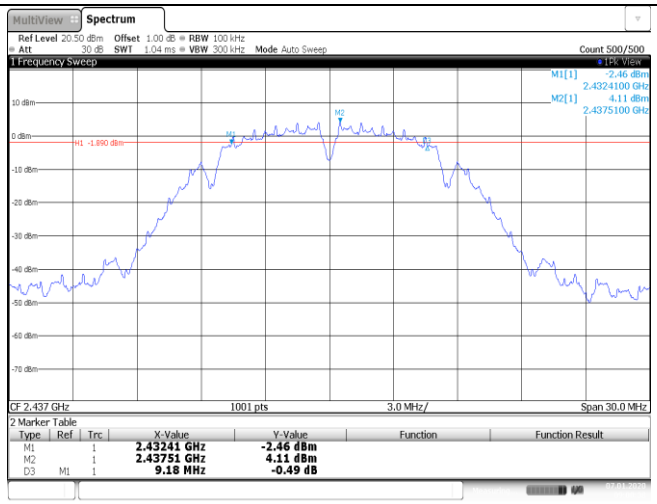
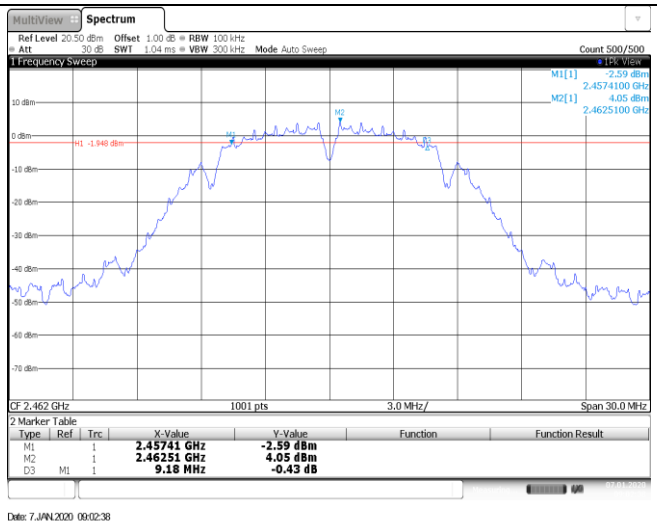
Type:	802.11 g
CH01	
CH06	
CH11	

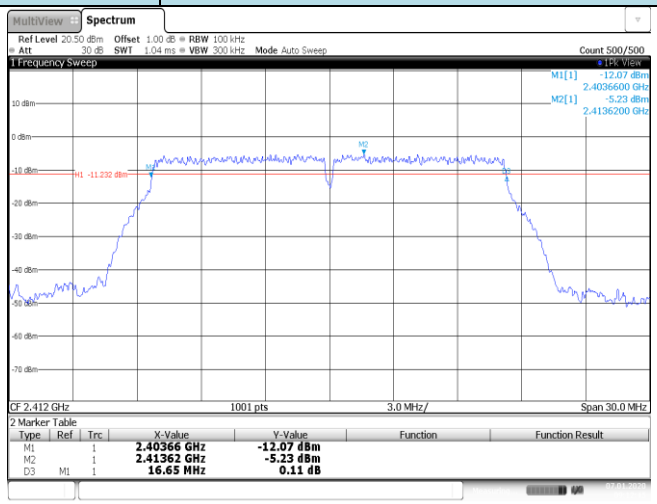
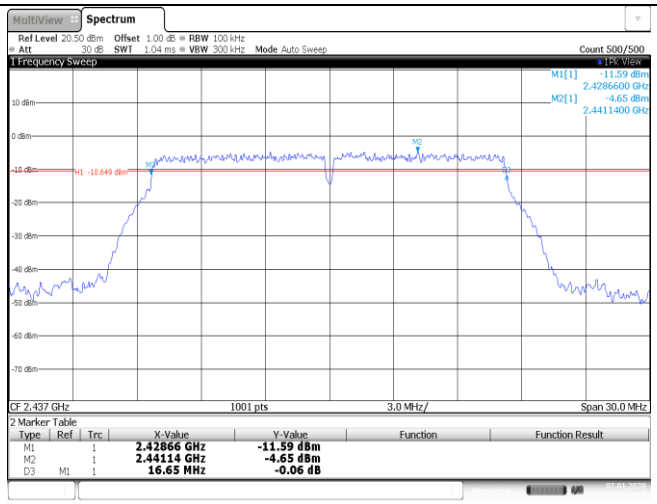
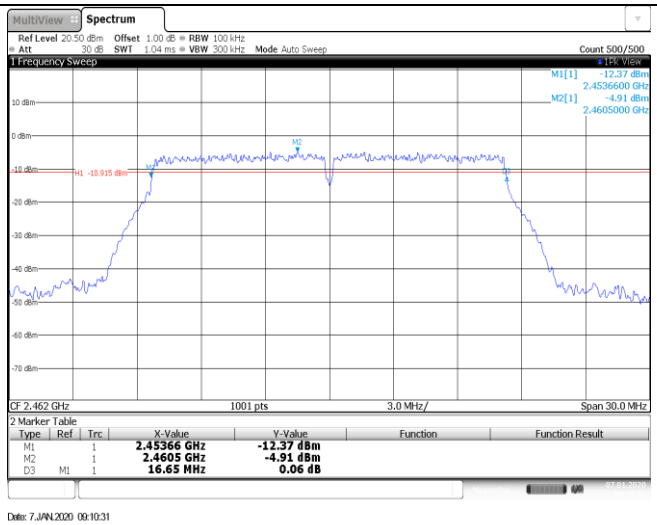
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

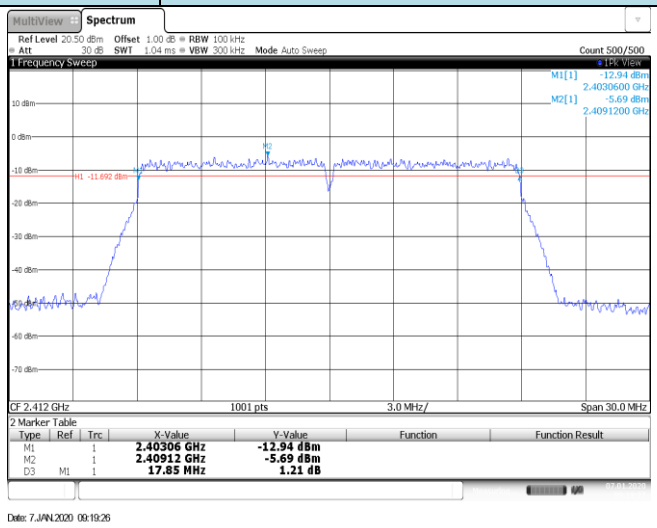
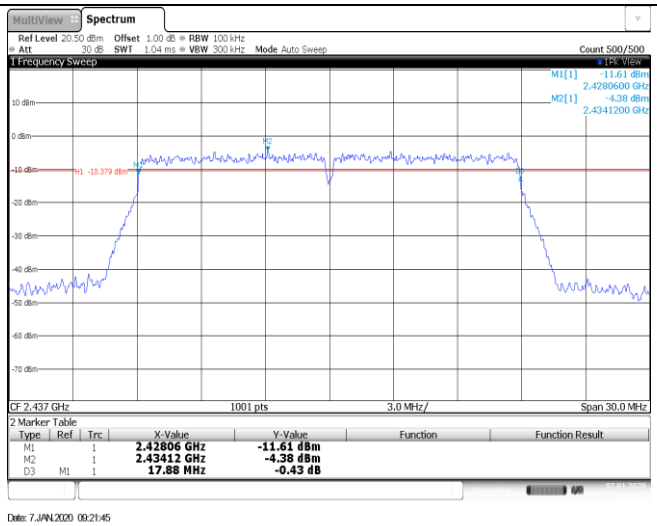
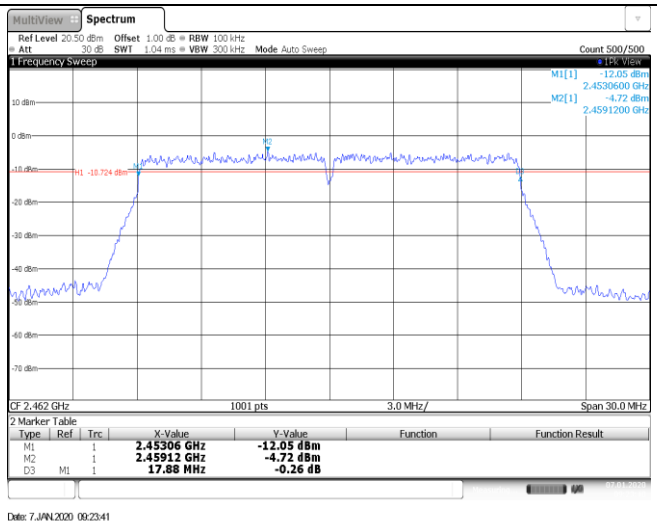
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

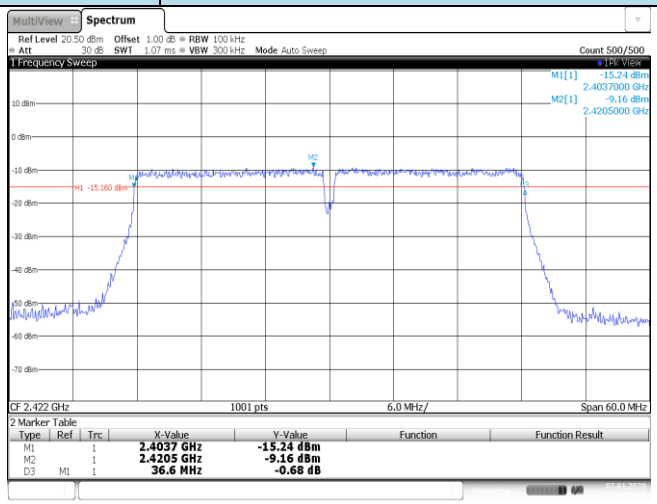
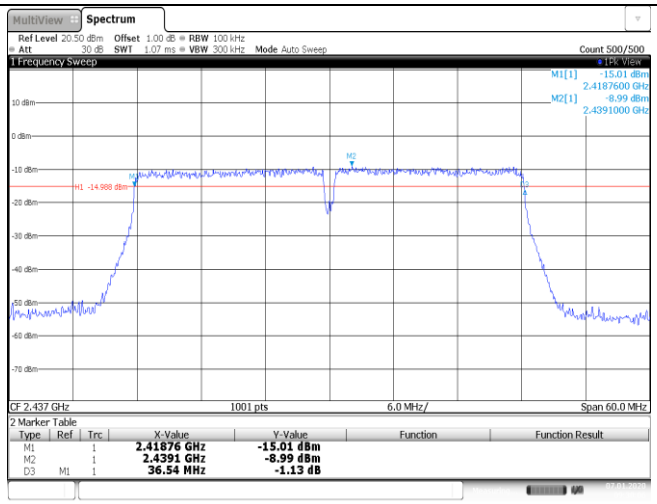
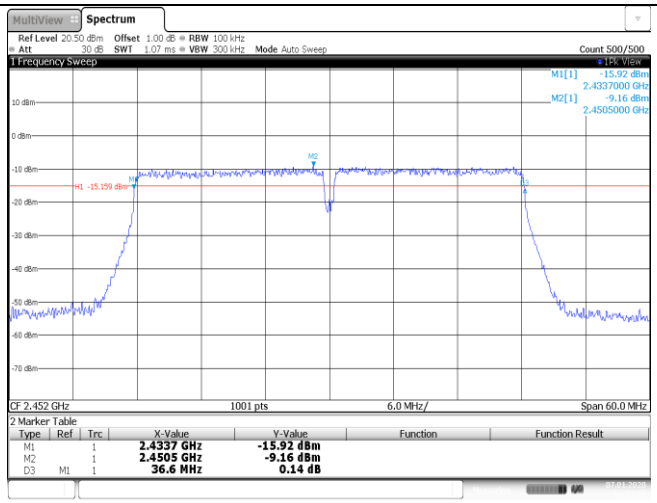
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.15	≥0.5	Pass
	06	9.18		
	11	9.18		
802.11g	01	16.65	≥0.5	Pass
	06	16.65		
	11	16.65		
802.11n(HT20)	01	17.85	≥0.5	Pass
	06	17.88		
	11	17.88		
802.11n(HT40)	03	36.60	≥0.5	Pass
	06	36.54		
	09	36.60		

Type:	802.11 b
CH01	
CH06	
CH11	

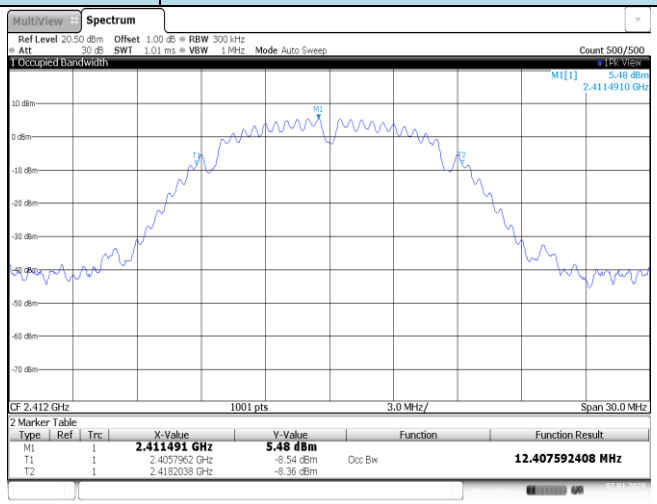
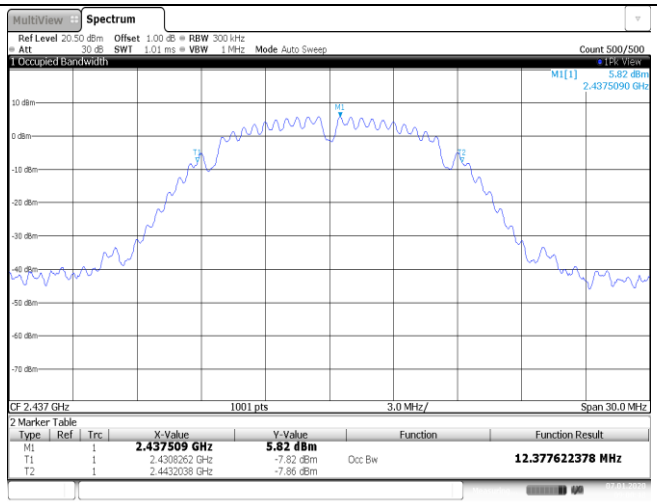
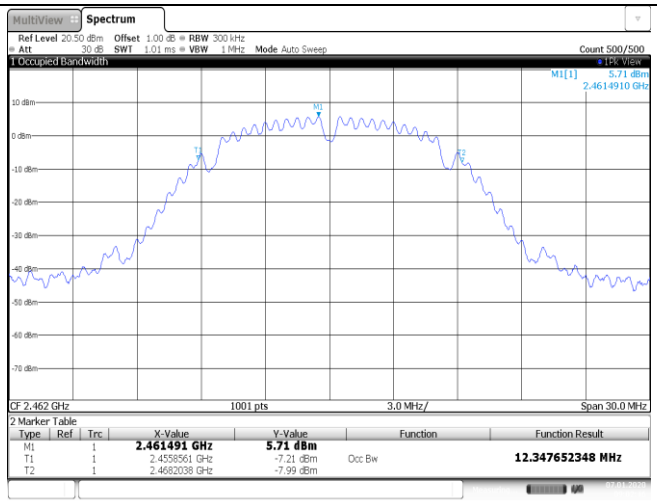
Type:	802.11 g
CH01	
CH06	
CH11	

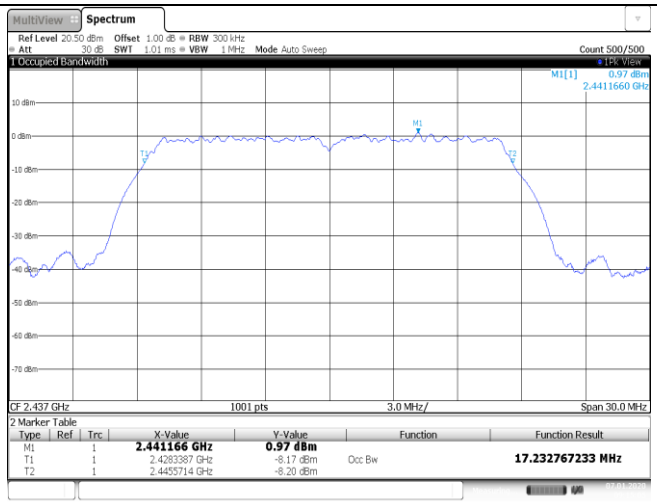
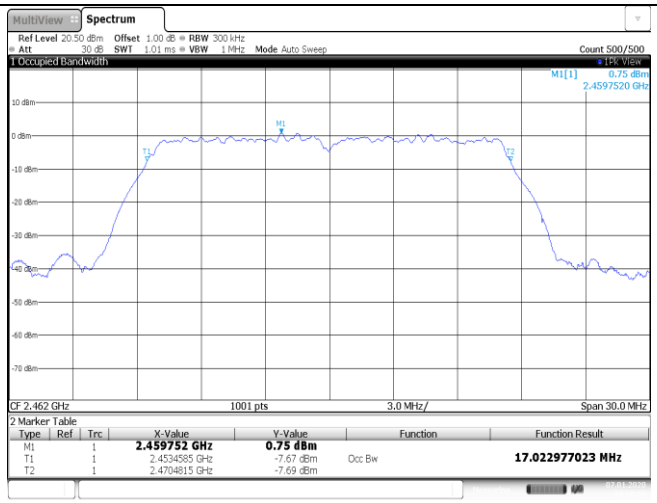
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

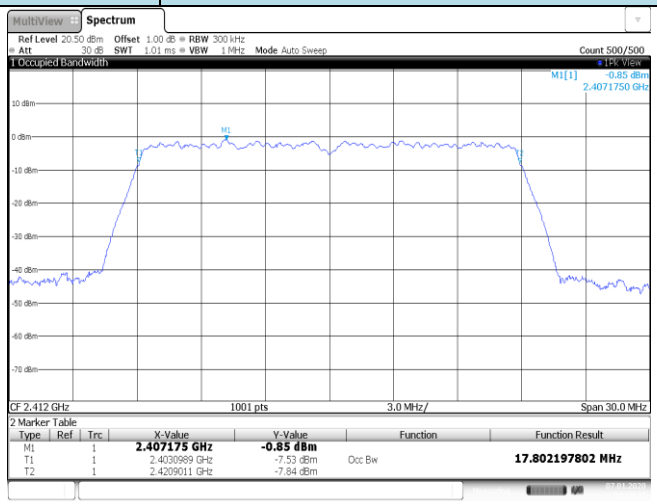
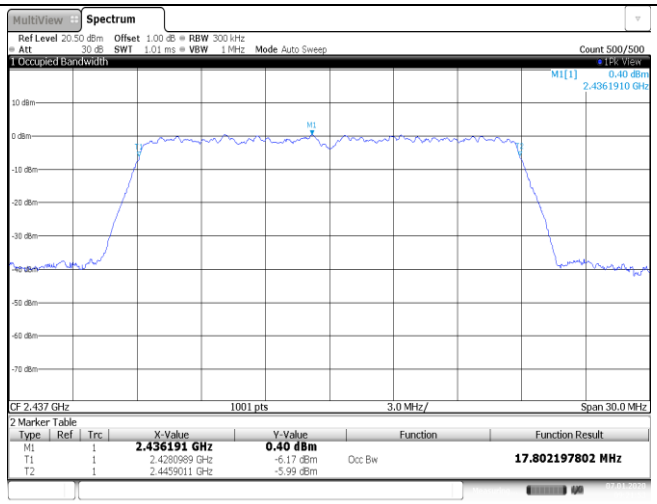
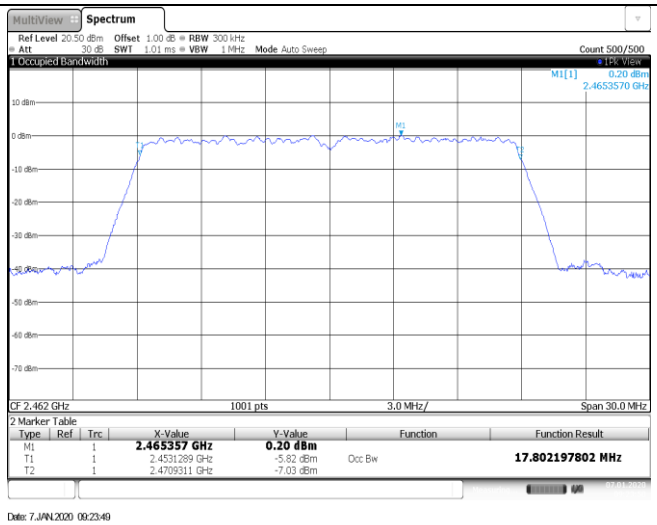
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

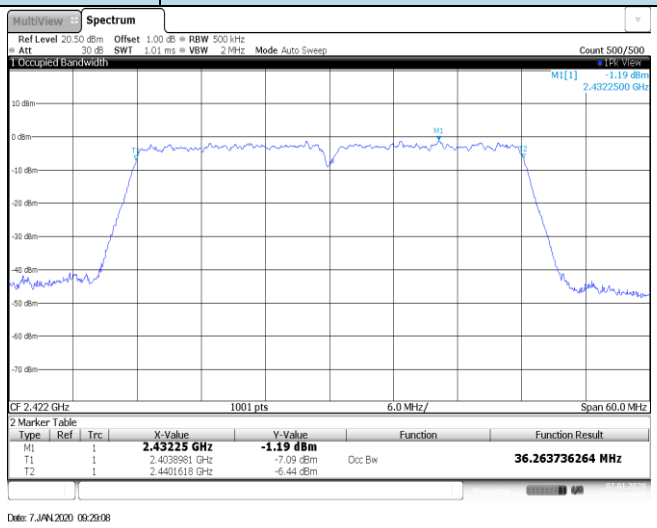
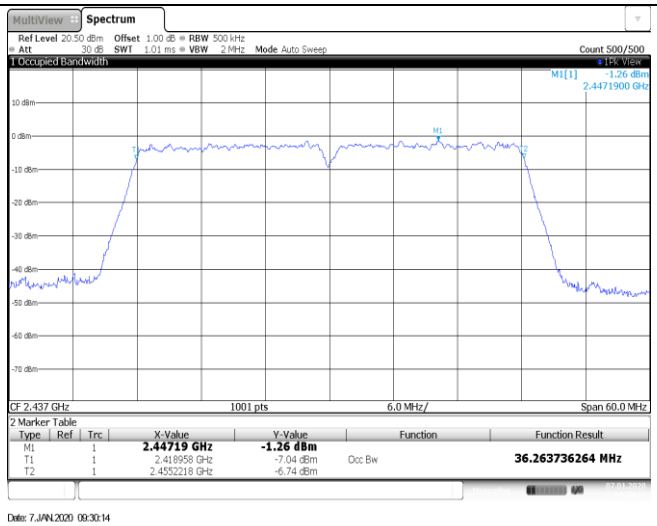
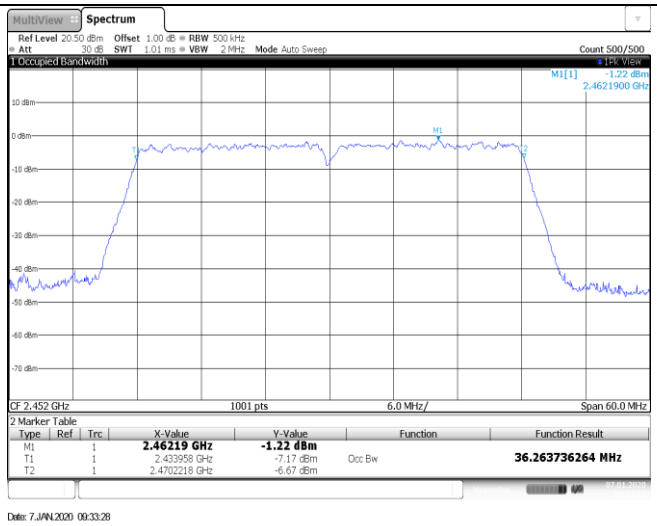
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.41	-	Pass
	06	12.38		
	11	12.35		
802.11g	01	17.20	-	Pass
	06	17.23		
	11	17.02		
802.11n(HT20)	01	17.80	-	Pass
	06	17.80		
	11	17.80		
802.11n(HT40)	03	36.26	-	Pass
	06	36.26		
	09	36.26		

Type:	802.11 b
CH01	
CH06	
CH11	

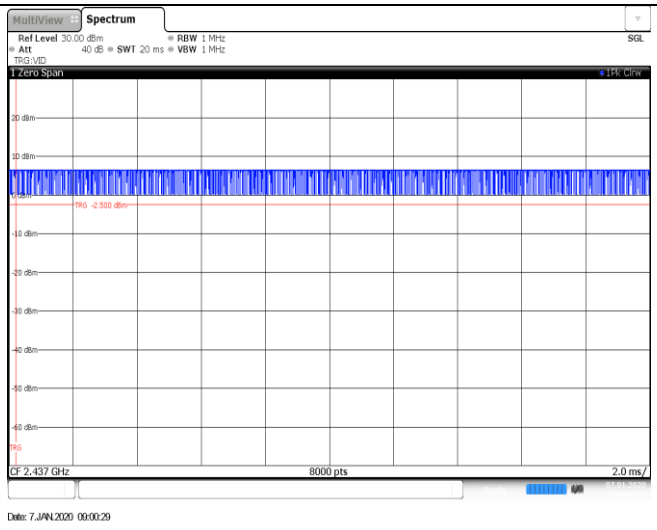
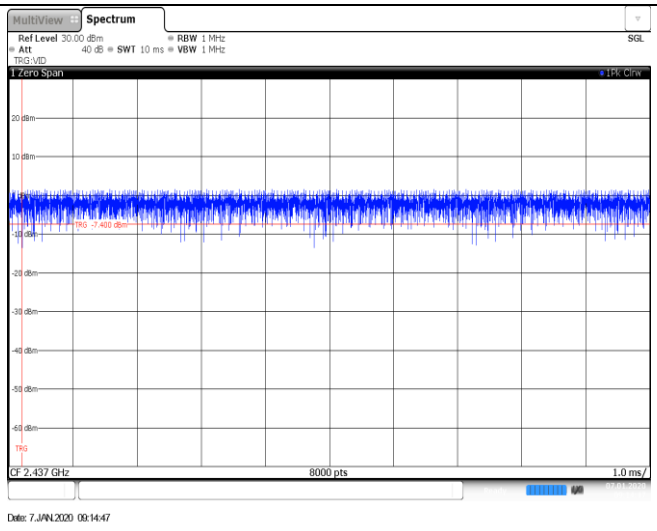
Type:	802.11 g
CH01	
CH06	
CH11	

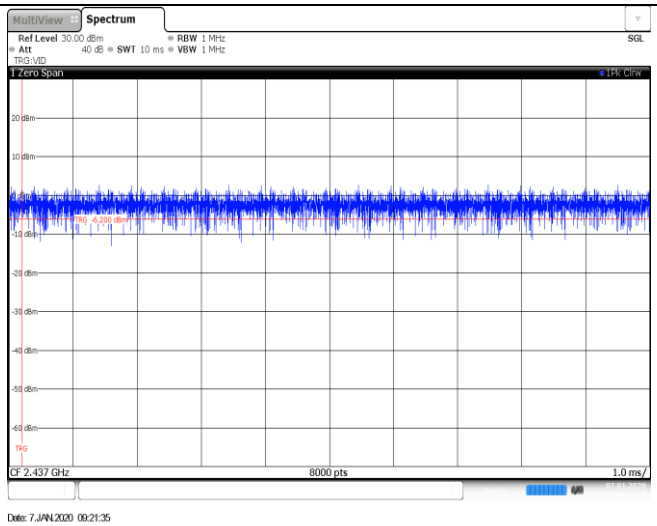
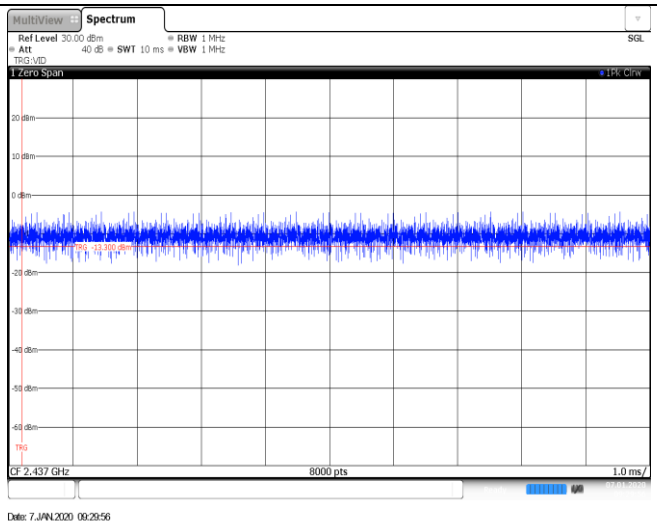
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Type:	802.11n(HT40)
CH03	
CH06	
CH09	

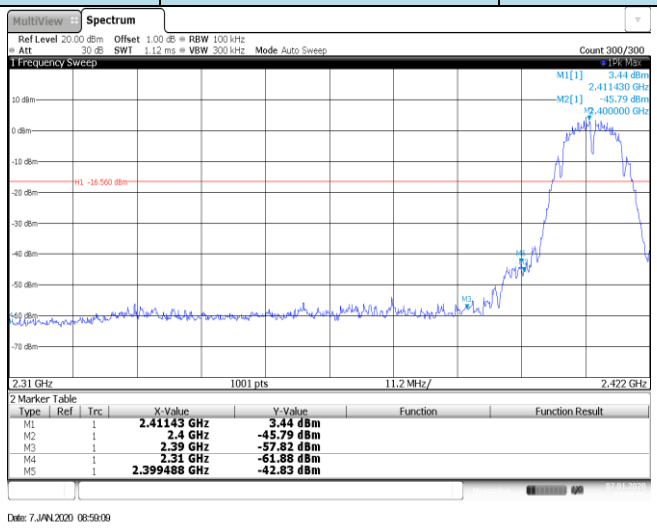
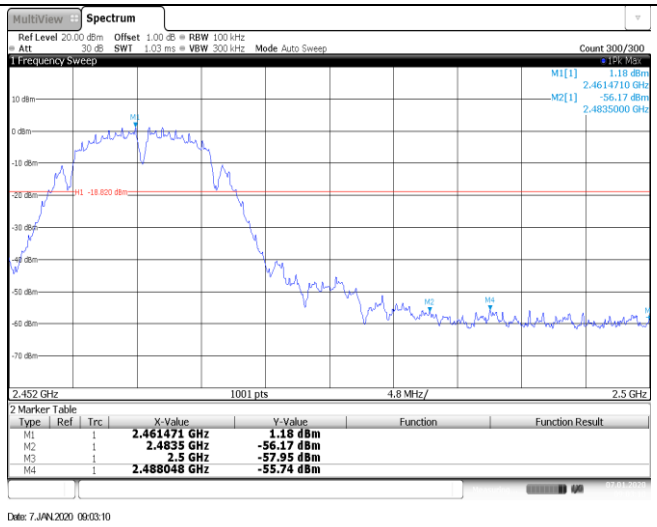
Appendix E：Duty Cycle

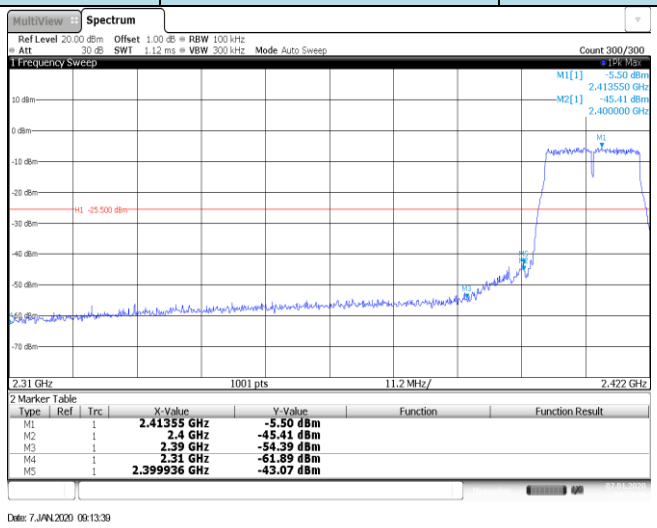
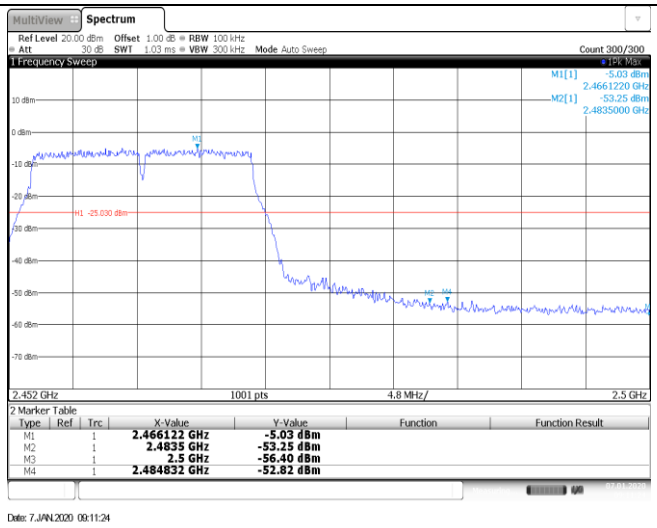
Modulation Type	Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	---	---	100%	---
11g	2437	---	---	100%	---
11n20	2437	---	---	100%	---
11n40	2437	---	---	100%	---

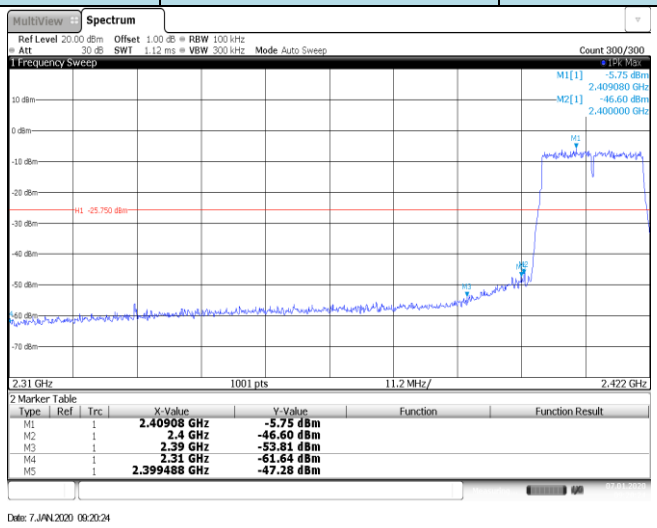
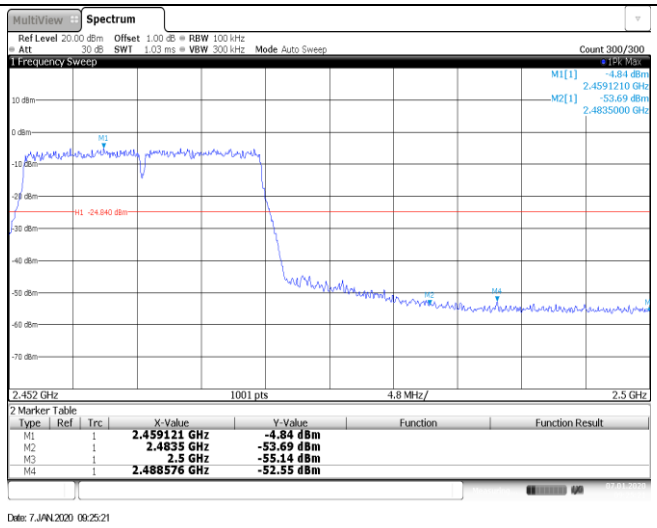
11b	
11g	

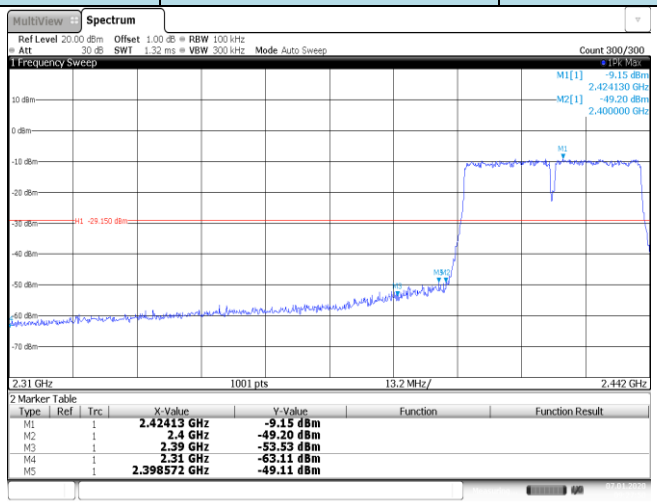
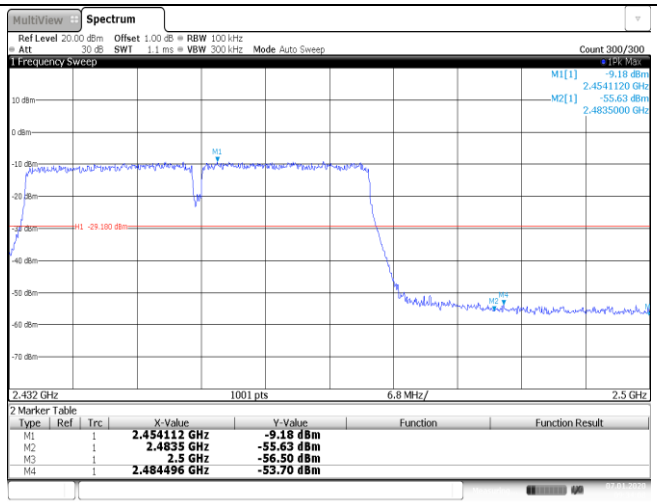
11n20	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz SGL Att 40 dB SWT 10 ms VBW 1 MHz TRG:VID 1 Zero Span 1Pk Clrw CF 2.437 GHz 8000 pts 1.0 ms/ Date: 7.JAN.2020 09:21:35
11n40	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz SGL Att 40 dB SWT 10 ms VBW 1 MHz TRG:VID 1 Zero Span 1Pk Clrw CF 2.437 GHz 8000 pts 1.0 ms/ Date: 7.JAN.2020 09:29:56

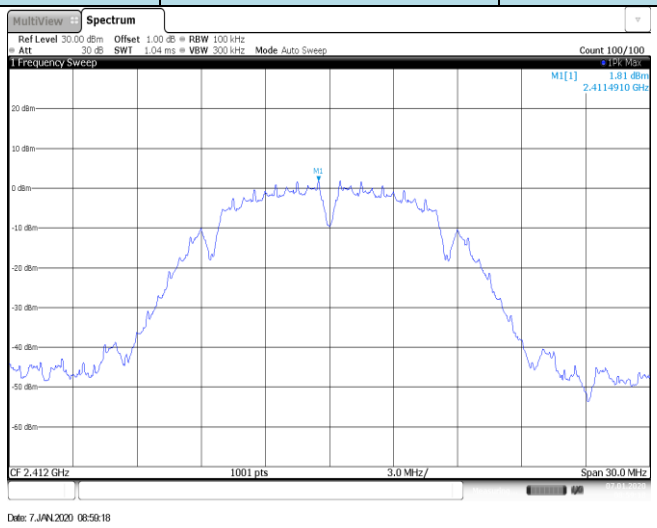
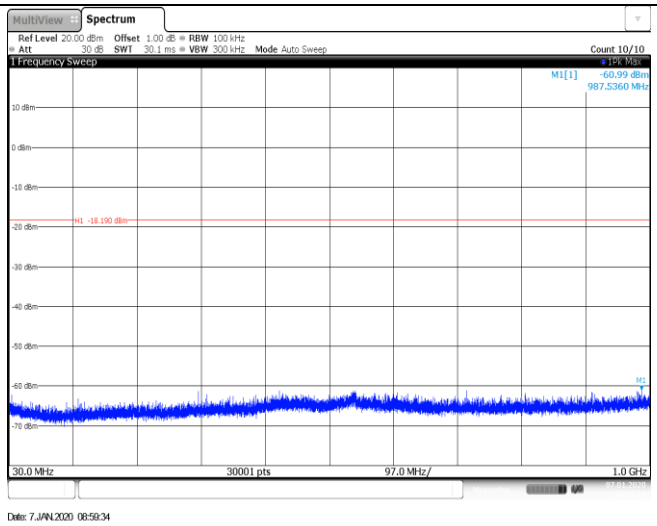
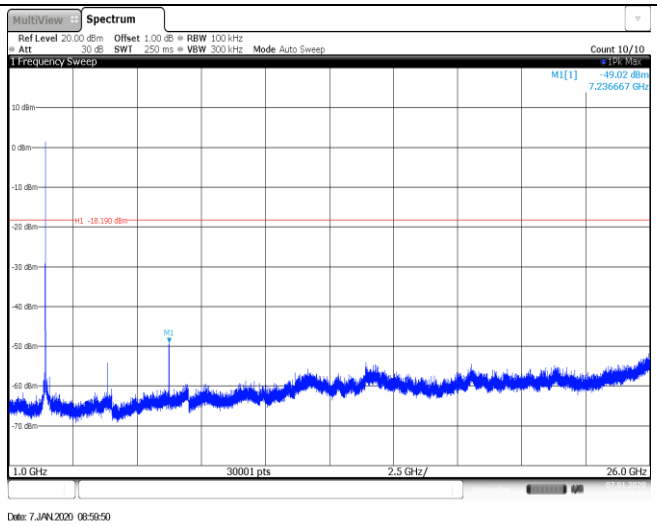
Appendix F：Band edge and Spurious Emissions (conducted)

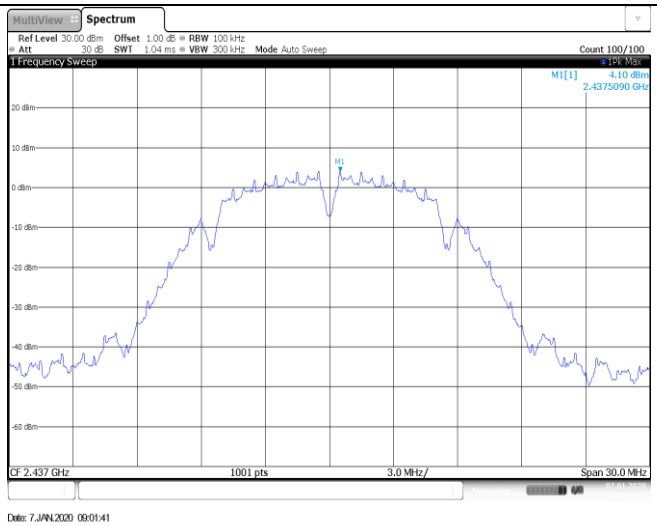
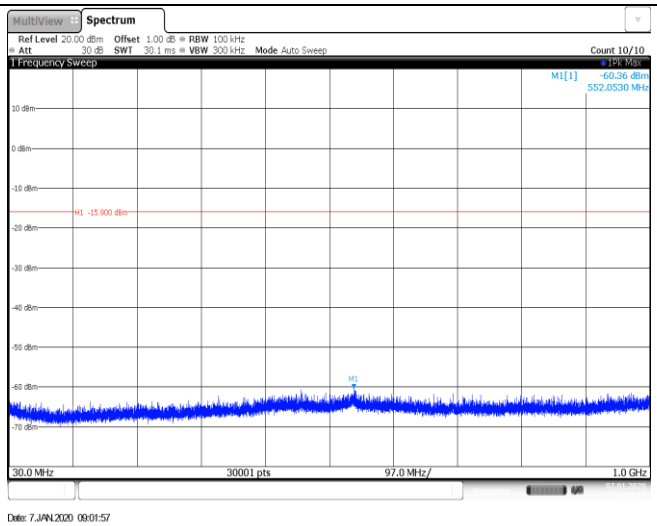
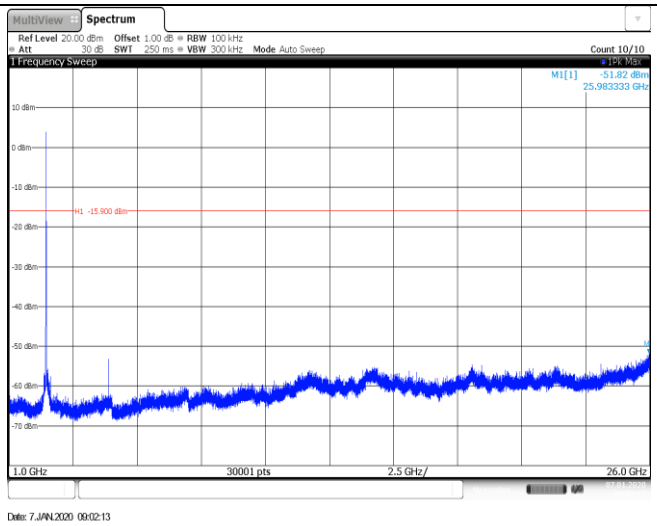
Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

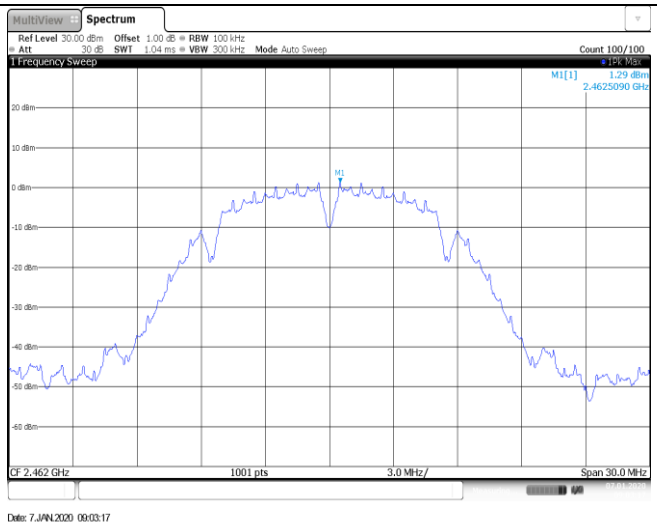
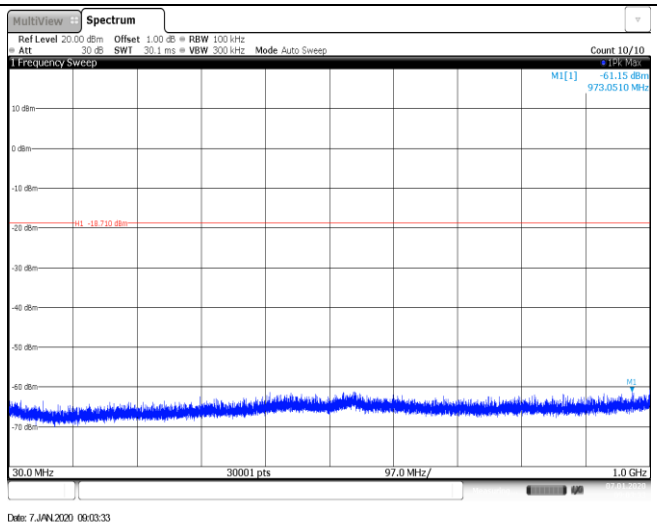
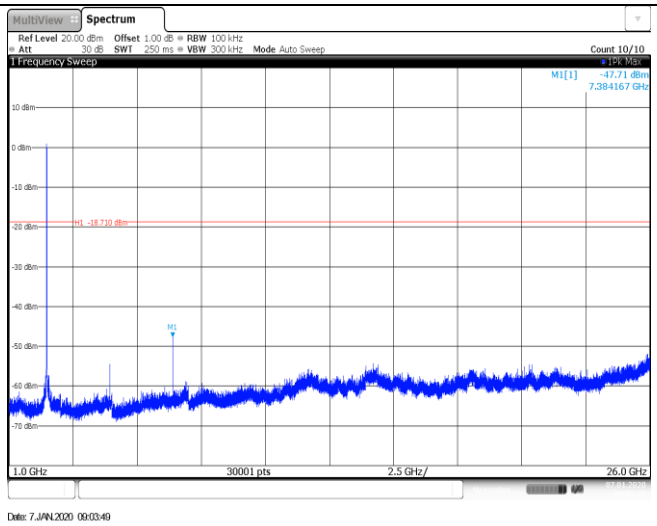
Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

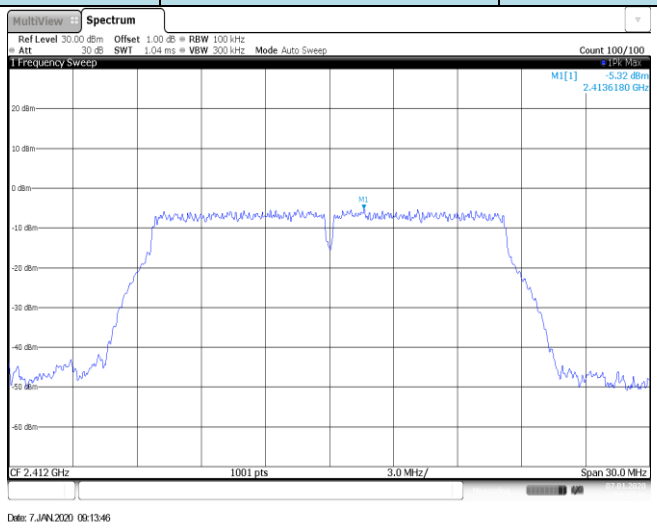
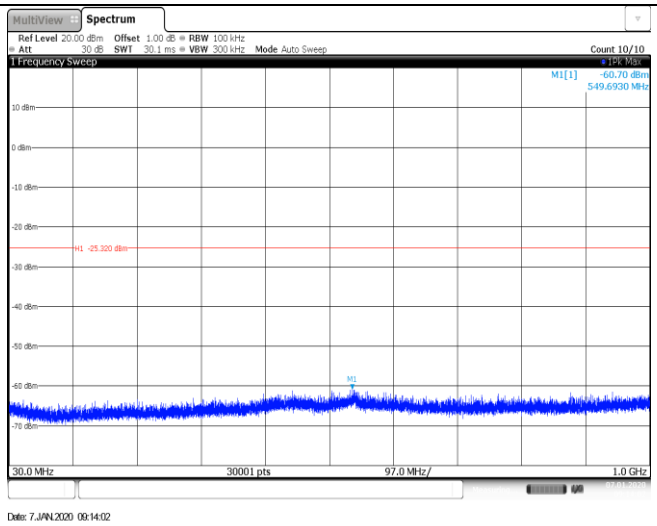
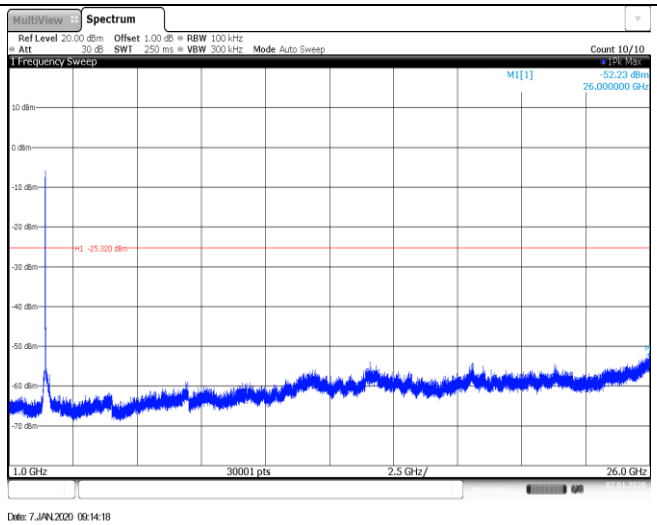
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

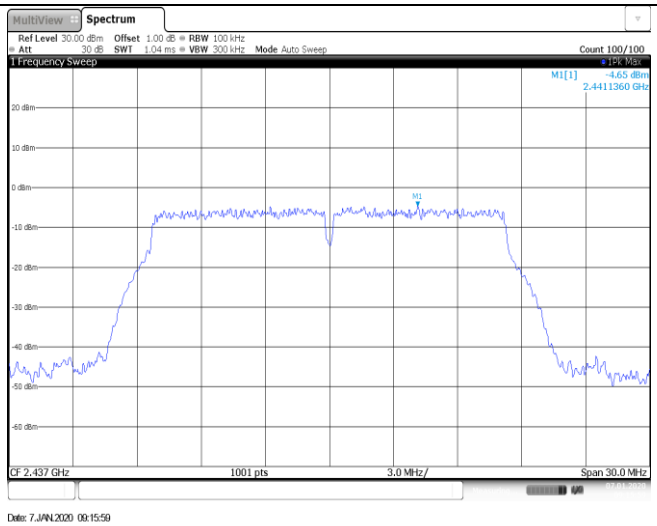
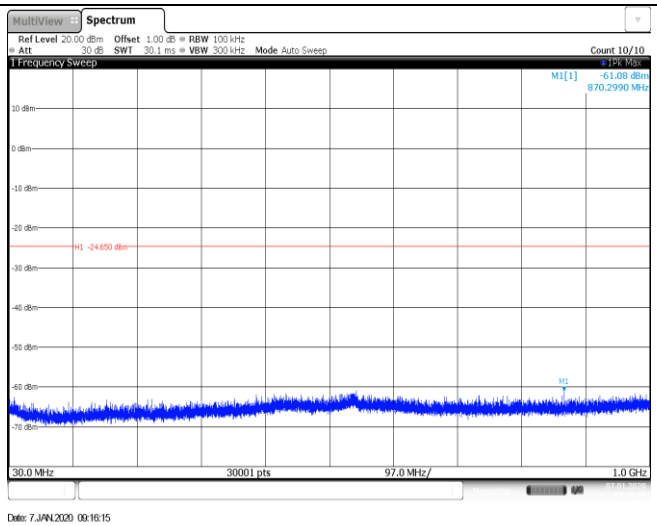
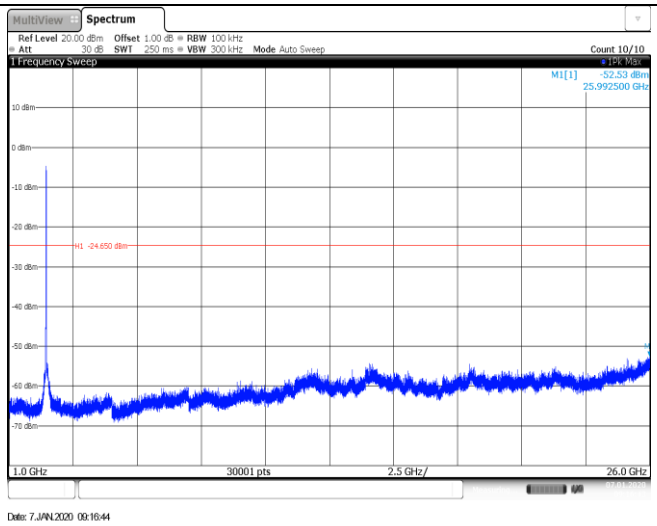
Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

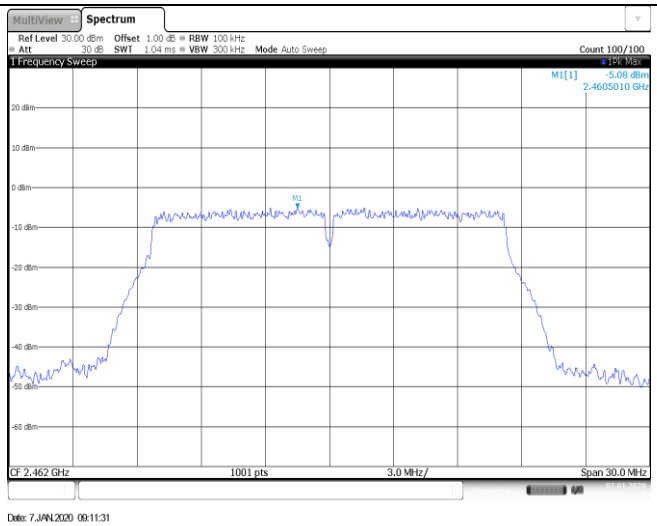
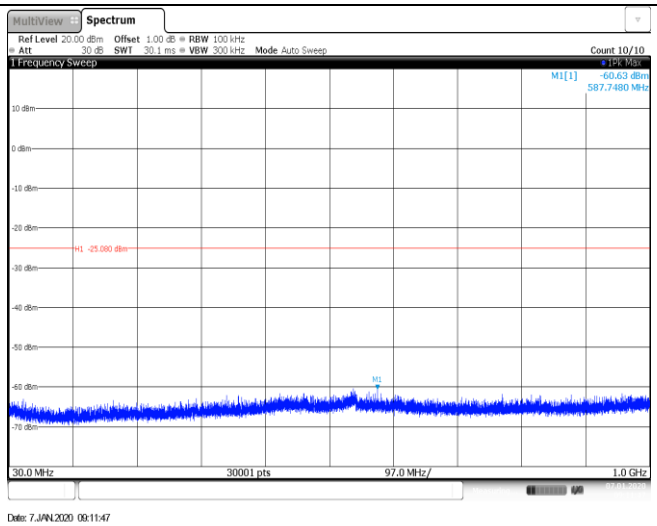
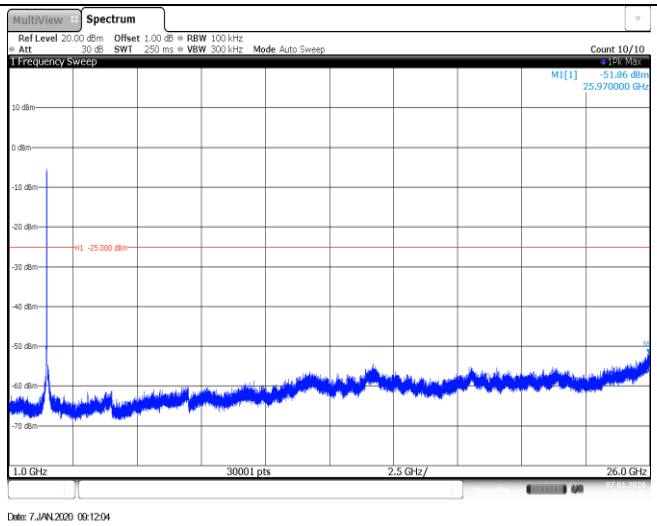
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

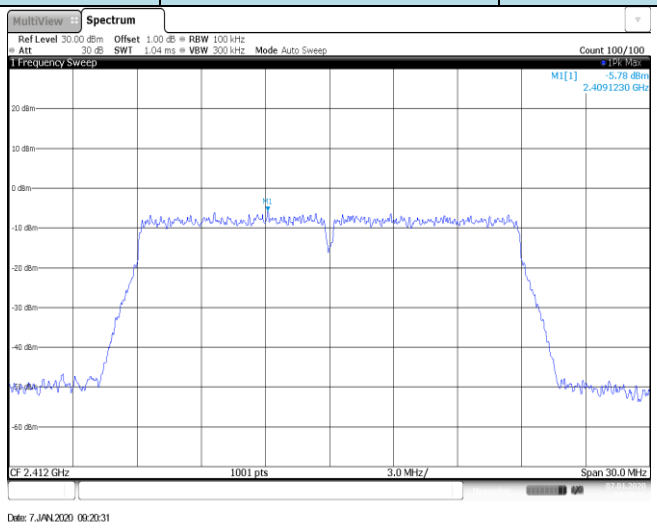
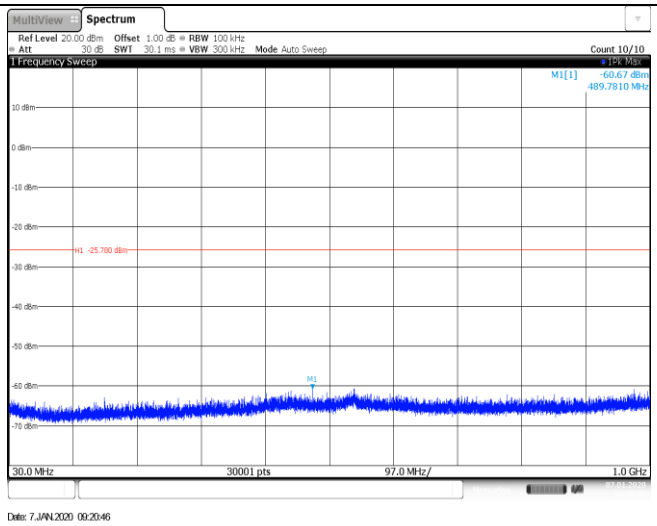
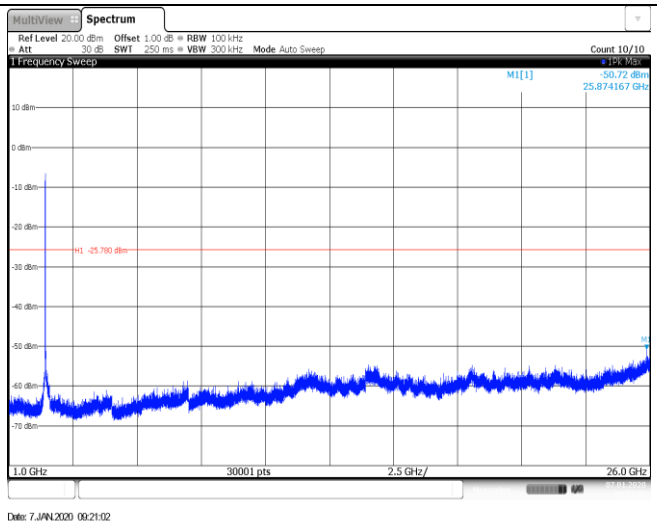
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

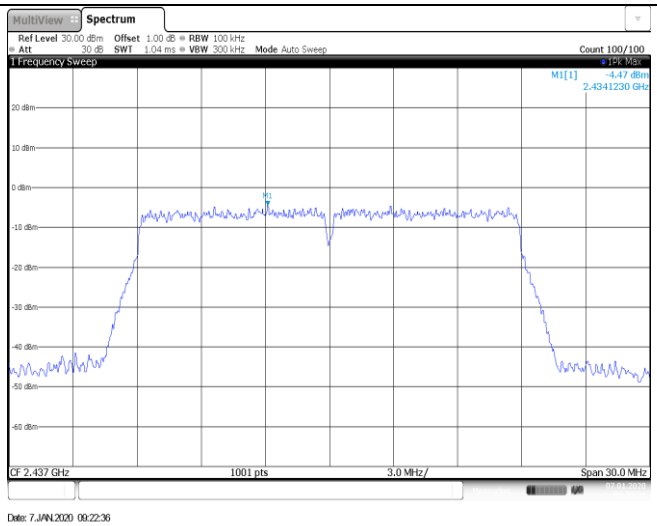
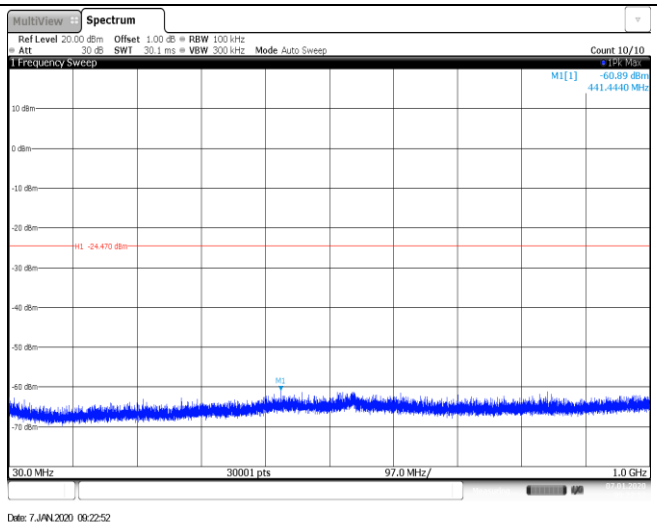
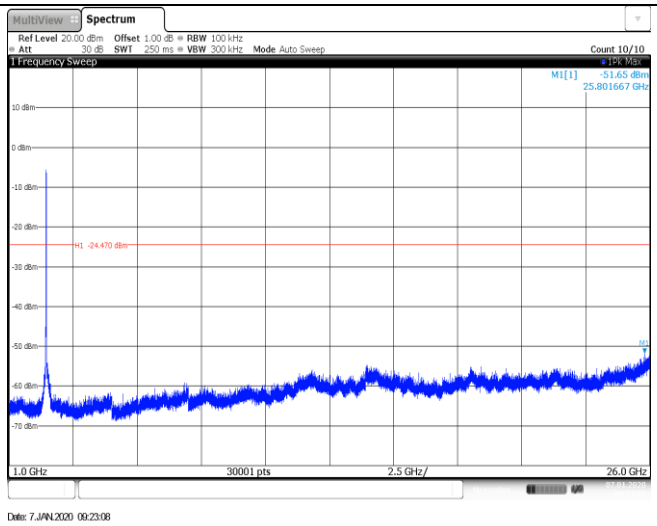
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

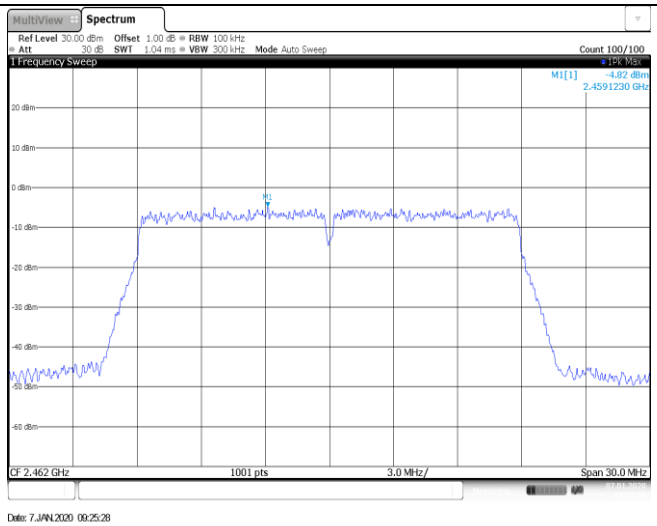
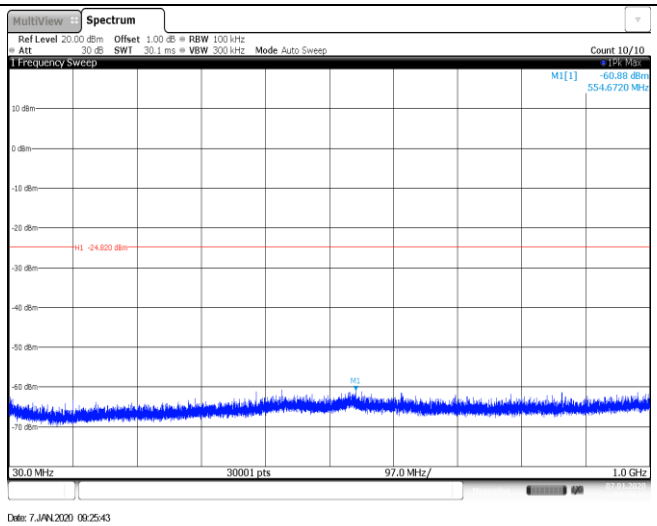
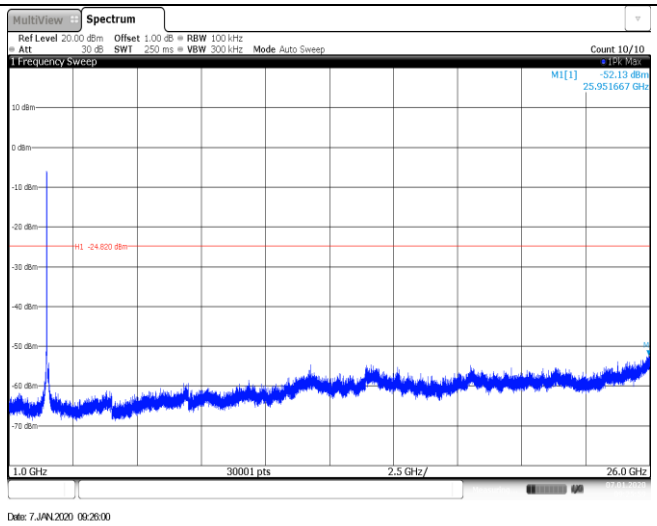
Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

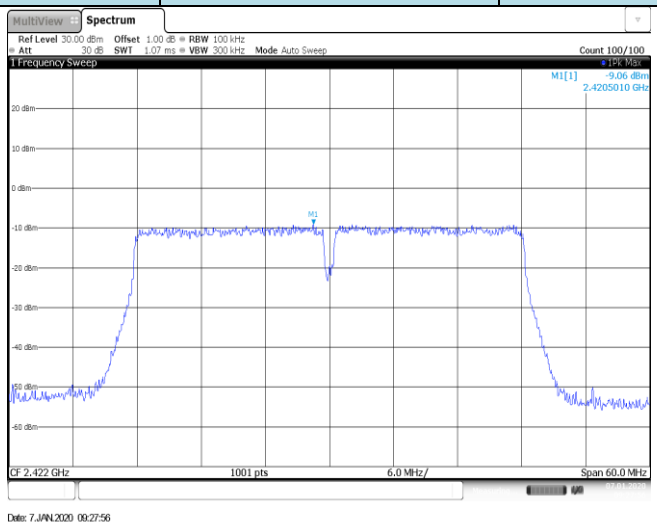
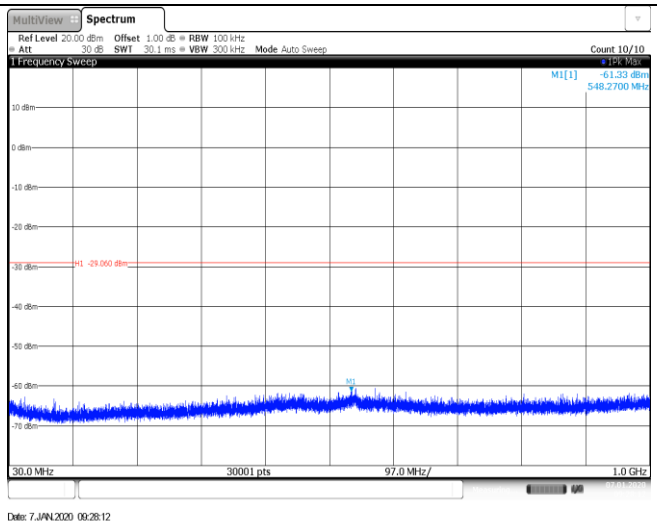
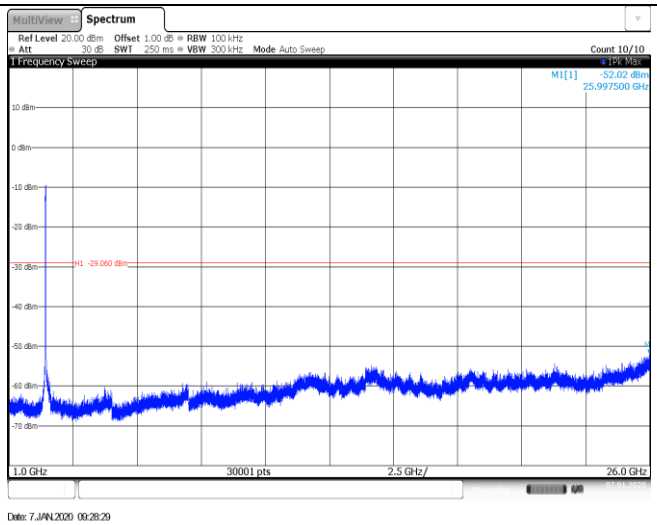
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

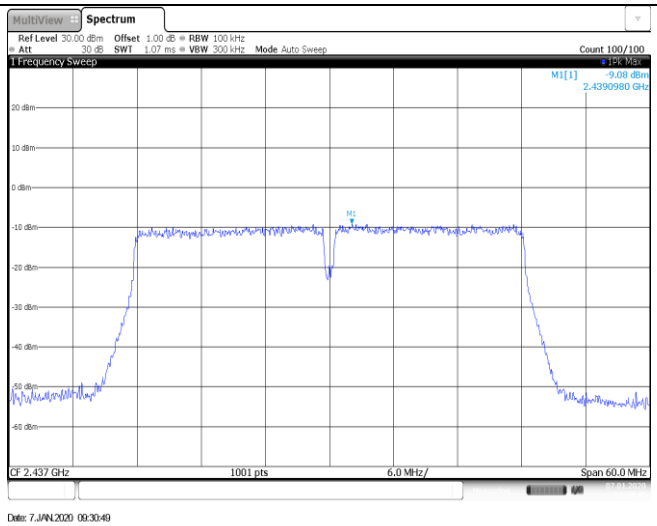
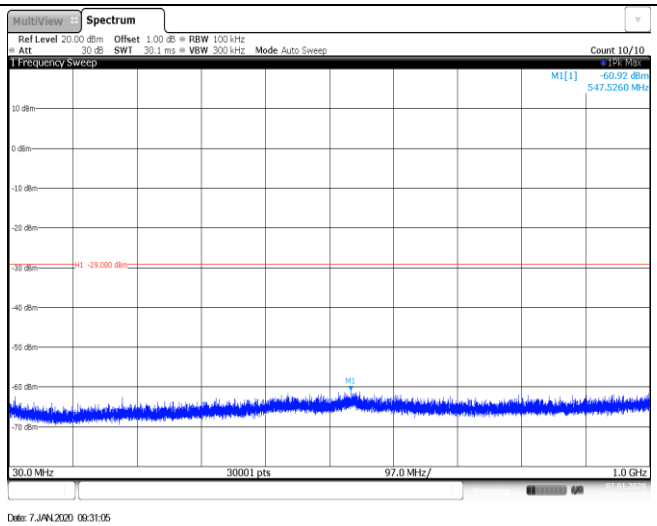
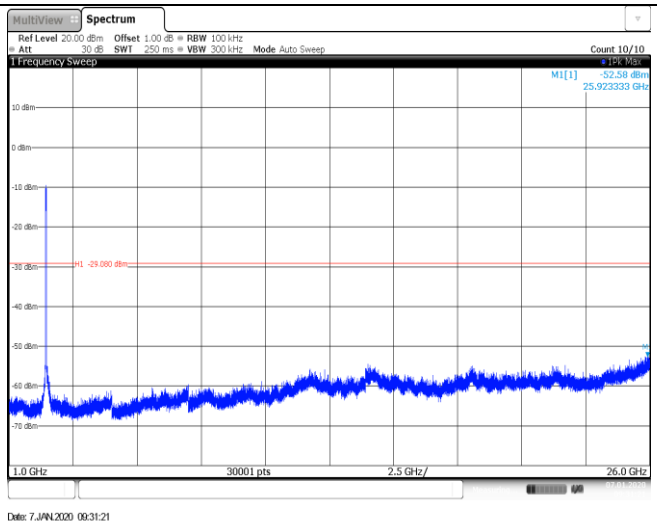
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

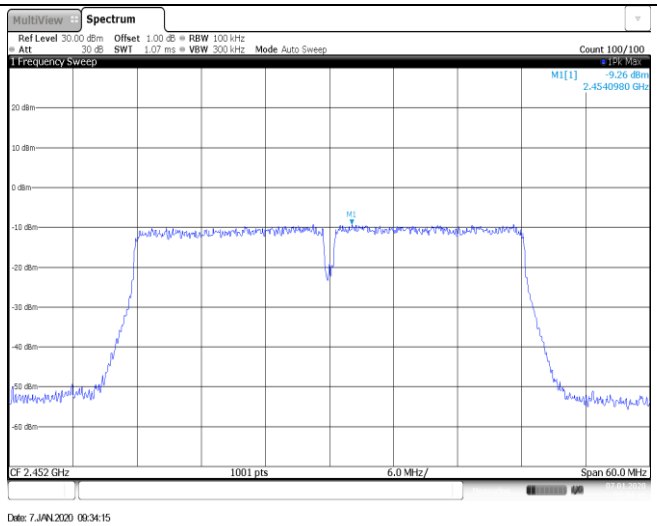
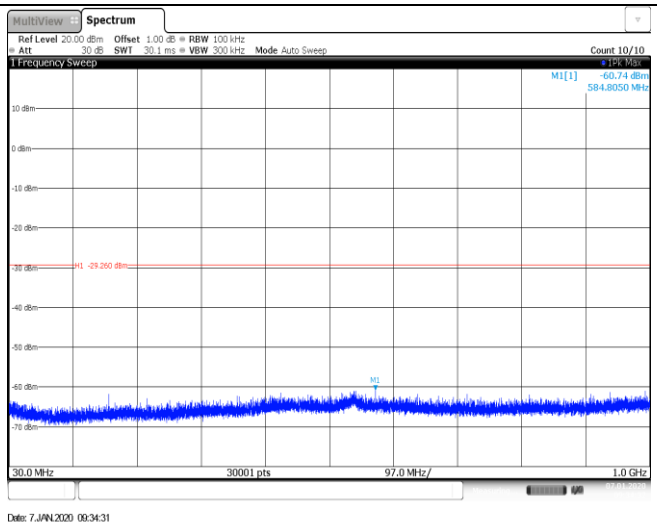
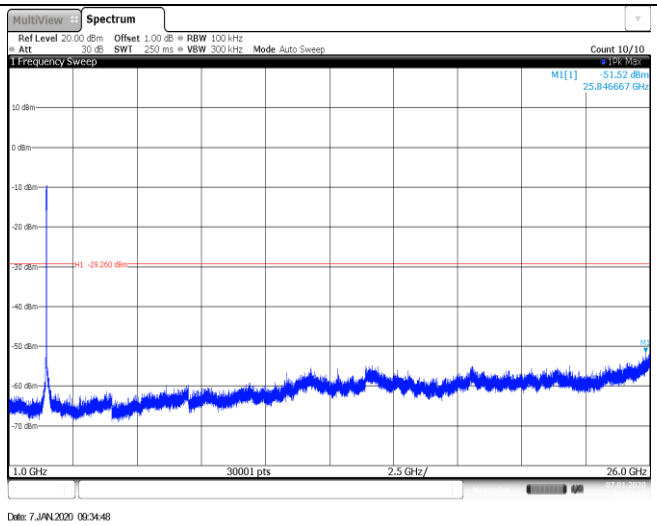
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

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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