APPENDIX REPORT

Project No.	SHT2010078801EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20100788004	Model No.	CN6Q15
Start test date	2020/11/3	Finish date	2020/11/3
Temperature	25°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

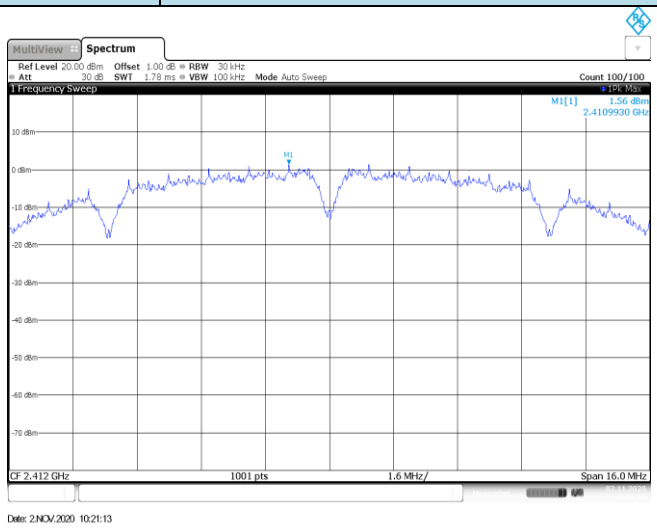
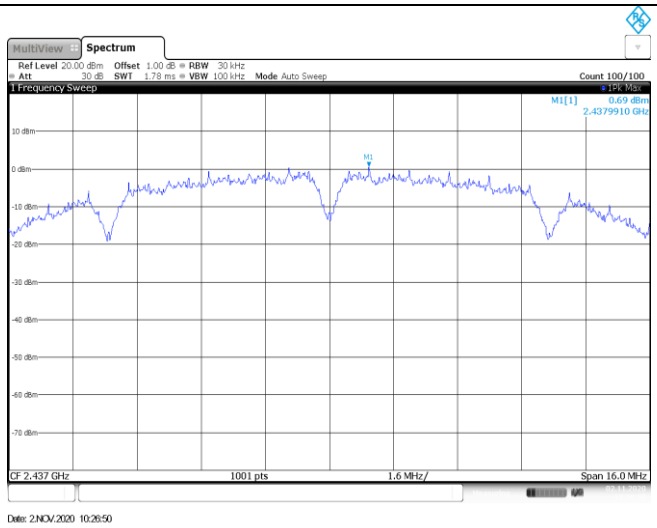
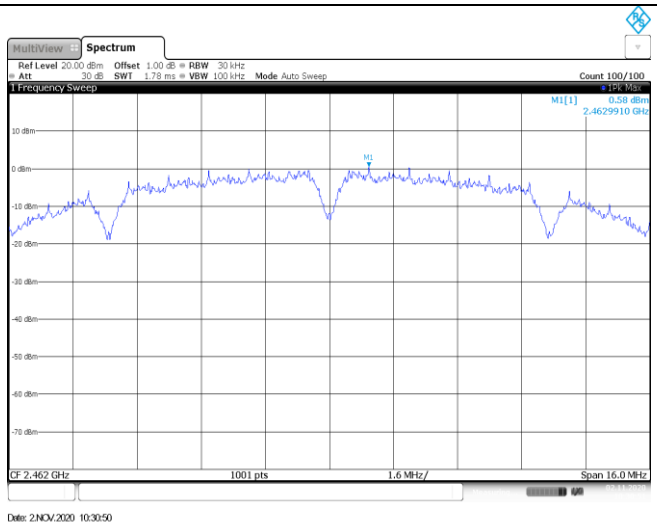
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

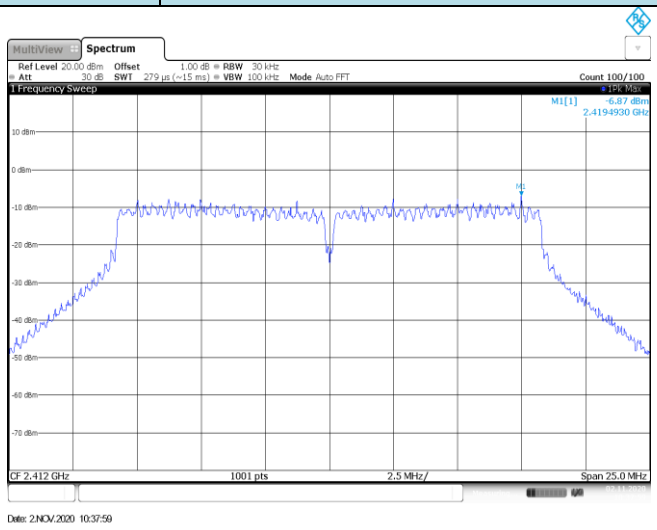
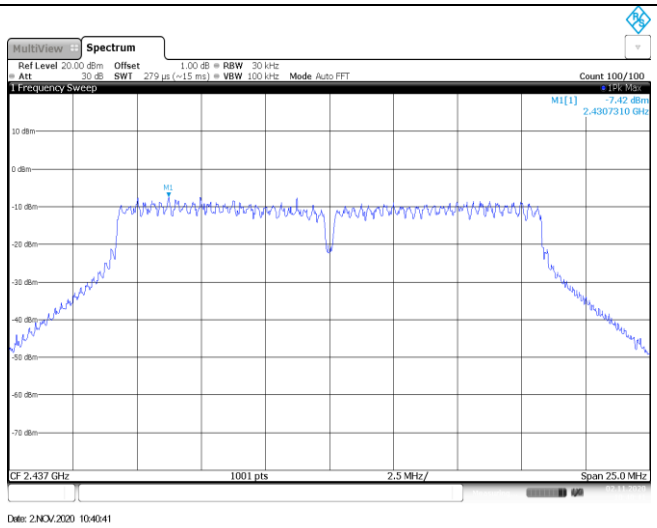
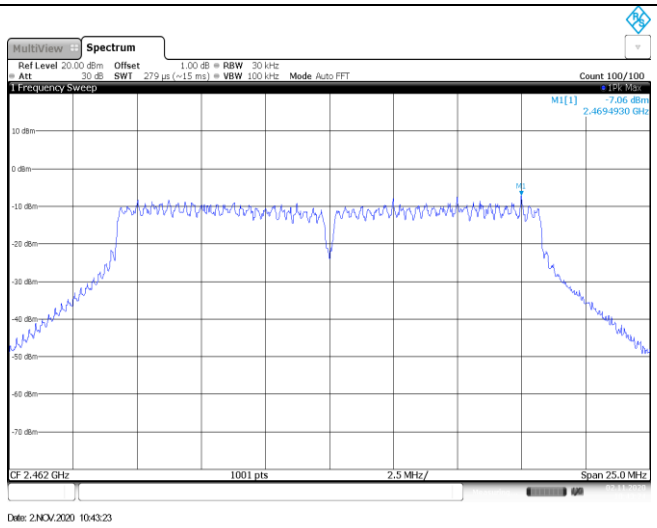
Appendix A: Conducted Peak Output Power

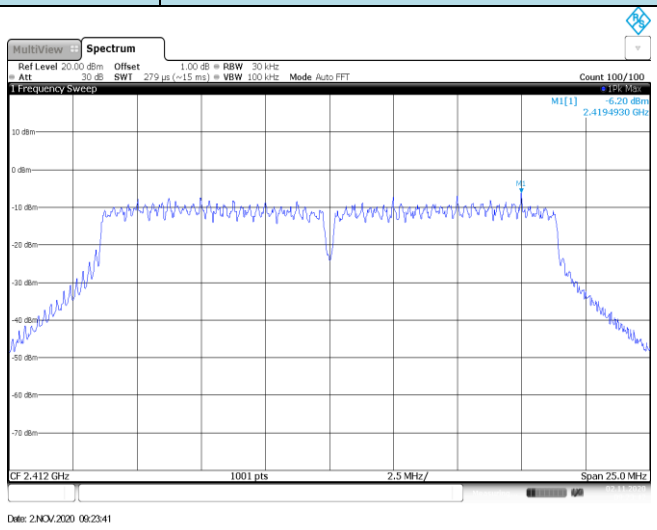
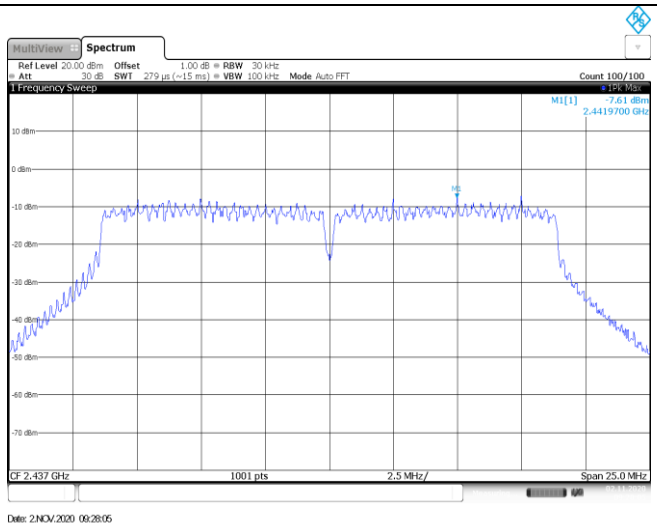
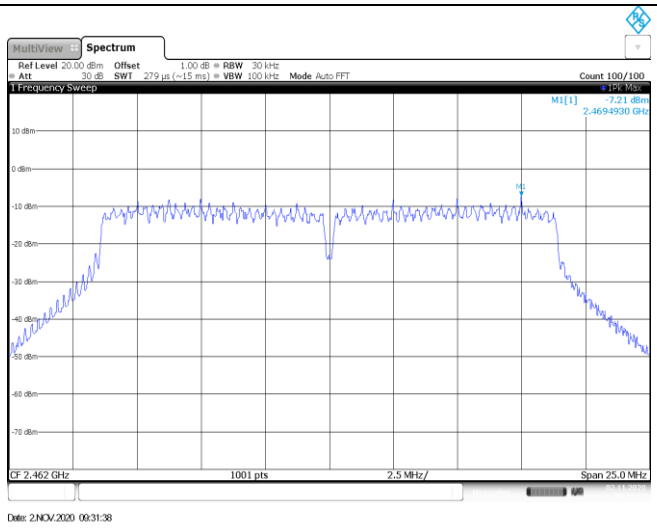
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	17.38	15.05	≤ 30.00	Pass
	06	16.96	14.68		
	11	16.64	14.36		
802.11g	01	17.68	13.82	≤ 30.00	Pass
	06	17.26	13.44		
	11	16.93	13.10		
802.11n (HT20)	01	17.98	15.29	≤ 30.00	Pass
	06	17.03	14.33		
	11	16.45	13.75		
802.11n(HT40)	03	17.94	14.99	≤ 30.00	Pass
	06	17.34	14.45		
	09	16.85	13.94		

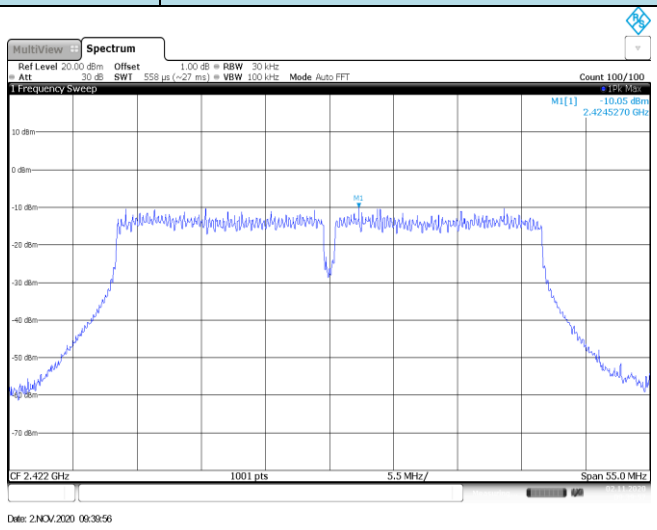
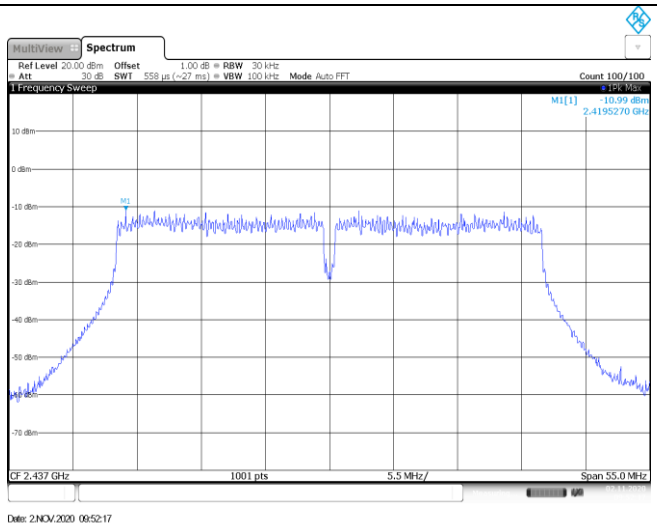
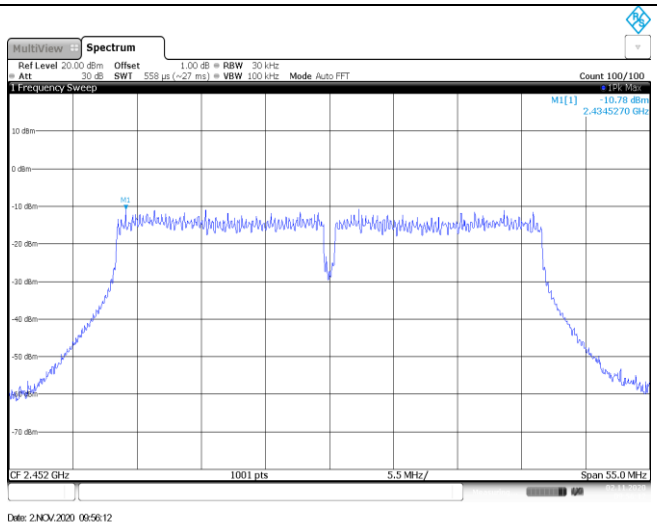
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	1.56	≤8.00	Pass
	06	0.69		
	11	0.58		
802.11g	01	-6.87	≤8.00	Pass
	06	-7.42		
	11	-7.06		
802.11n(HT20)	01	-6.20	≤8.00	Pass
	06	-7.61		
	11	-7.21		
802.11n(HT40)	03	-10.05	≤8.00	Pass
	06	-10.99		
	09	-10.78		

Type:	802.11 b
CH01	
CH06	
CH11	

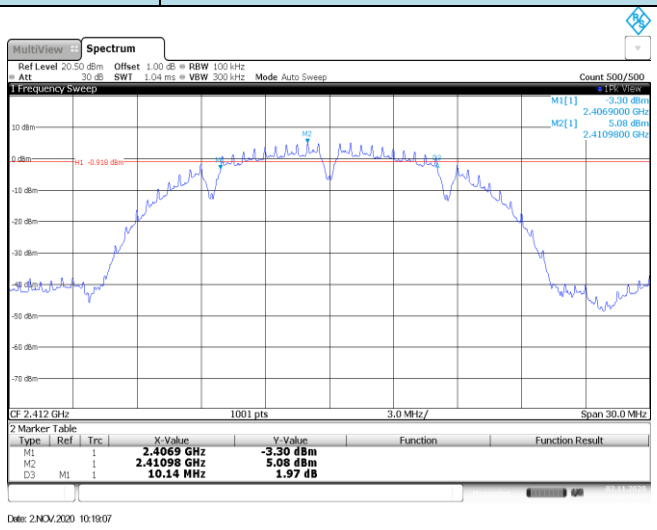
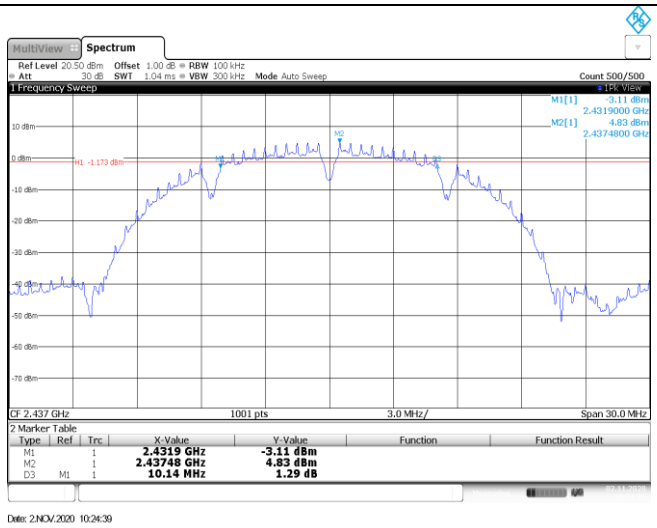
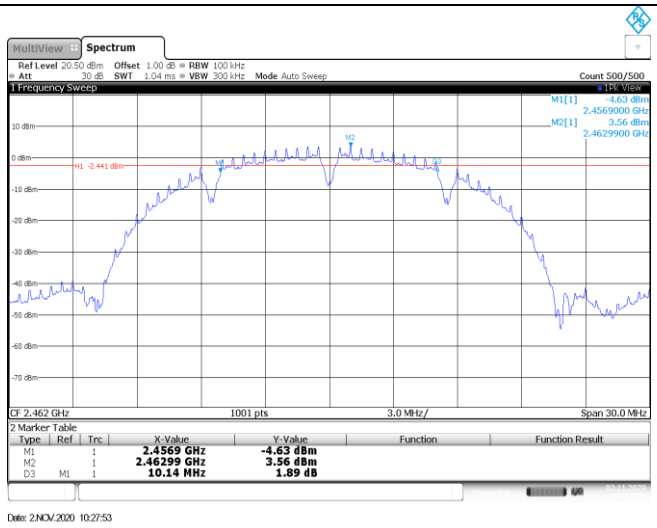
Type:	802.11 g
CH01	
CH06	
CH11	

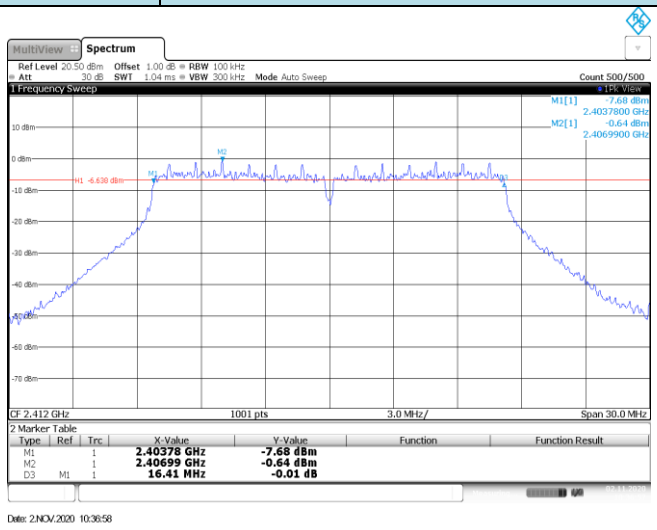
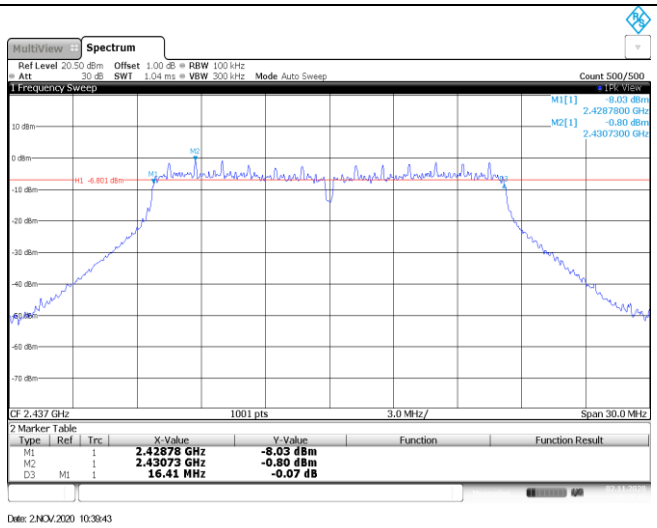
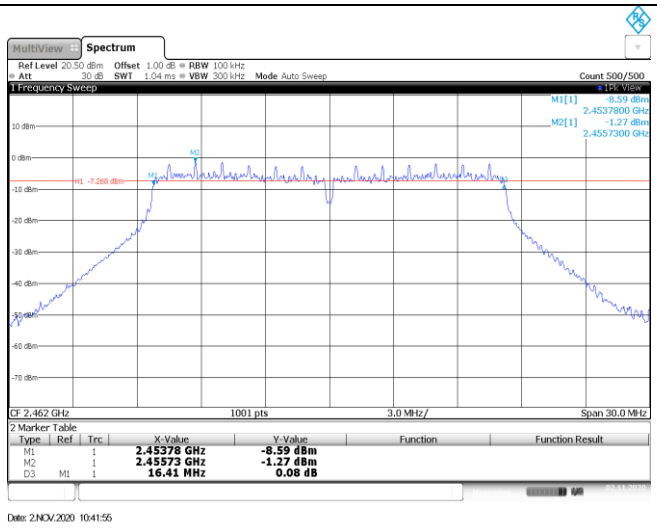
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

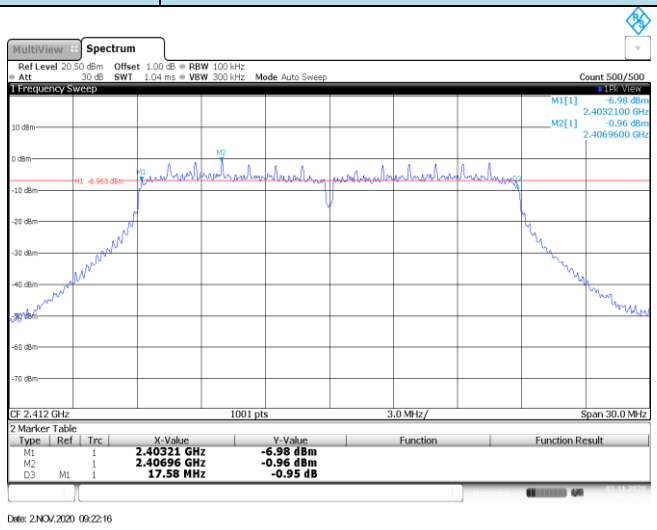
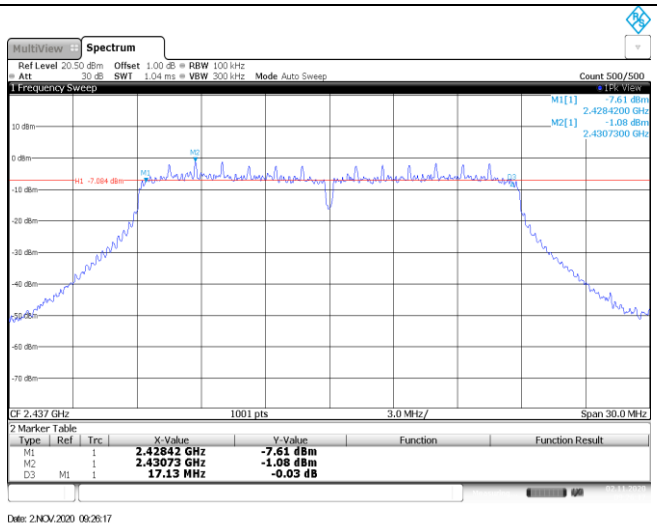
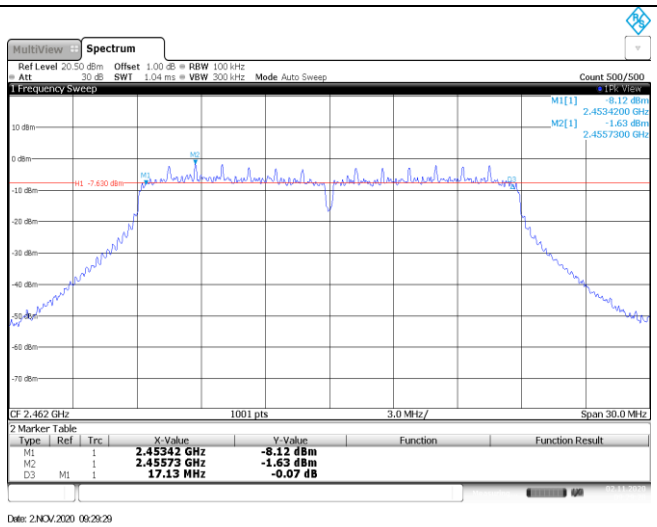
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

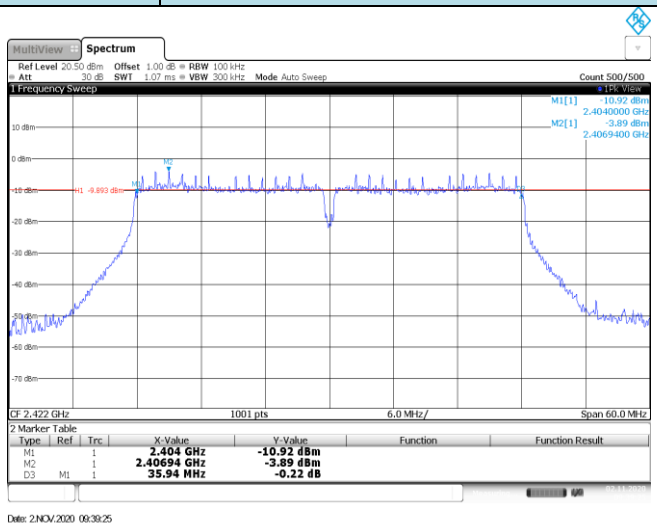
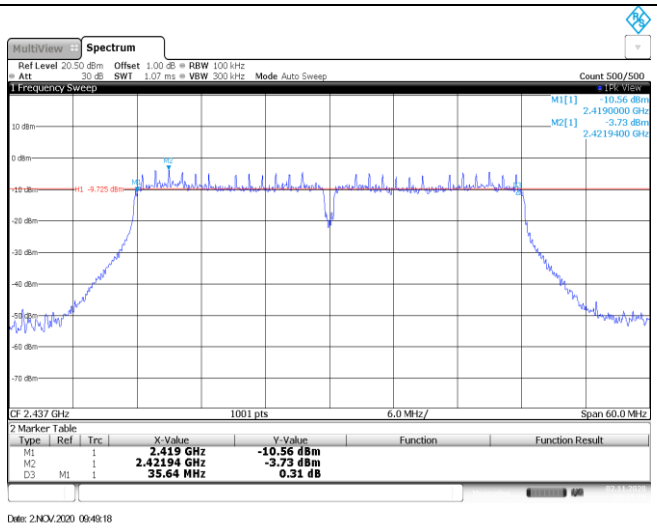
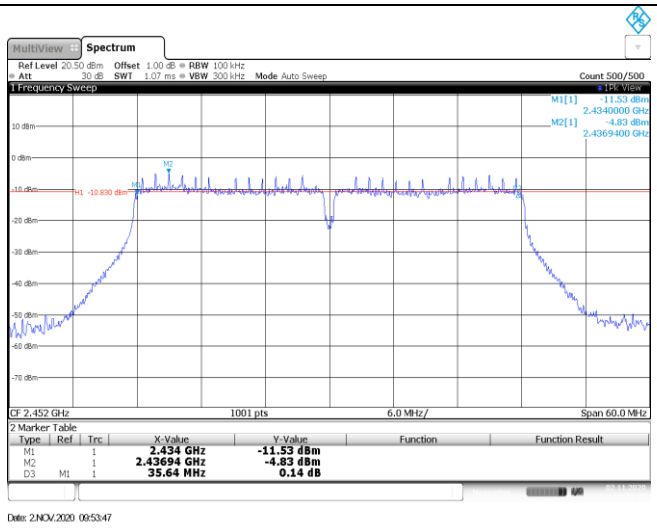
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	10.14	≥0.5	Pass
	06	10.14		
	11	10.14		
802.11g	01	16.41	≥0.5	Pass
	06	16.41		
	11	16.41		
802.11n(HT20)	01	17.58	≥0.5	Pass
	06	17.13		
	11	17.13		
802.11n(HT40)	03	35.94	≥0.5	Pass
	06	35.64		
	09	35.64		

Type:	802.11 b
CH01	
CH06	
CH11	

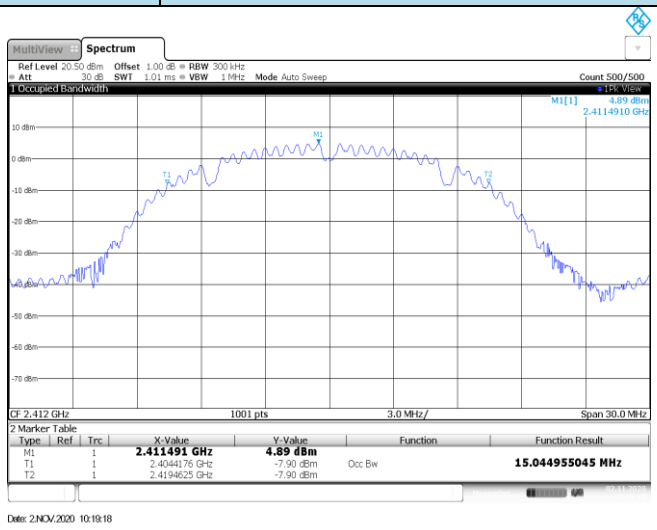
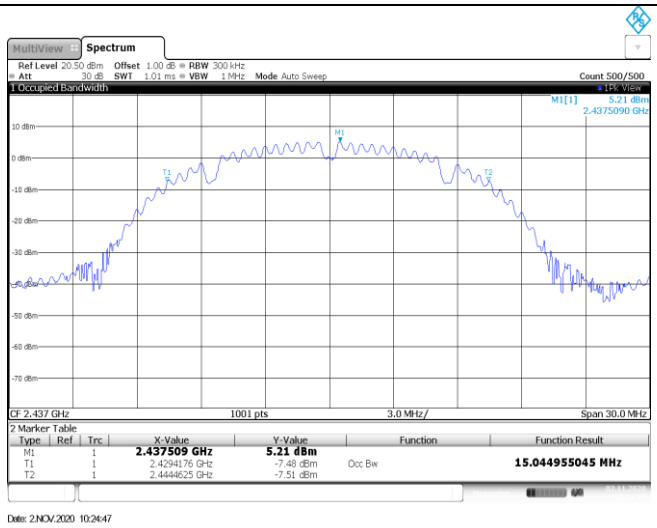
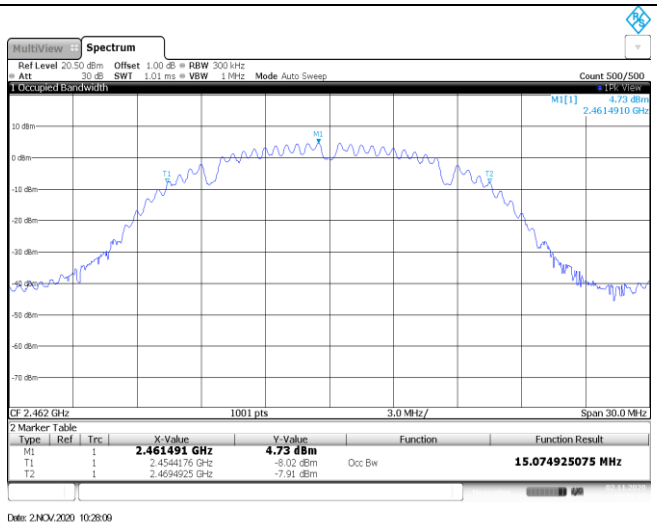
Type:	802.11 g
CH01	
CH06	
CH11	

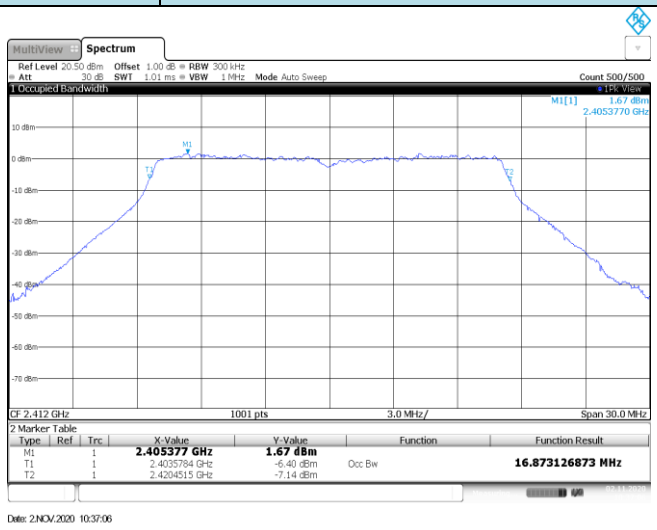
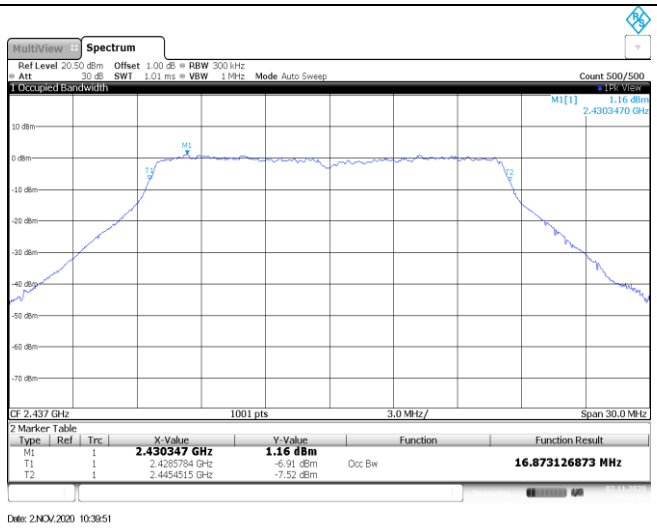
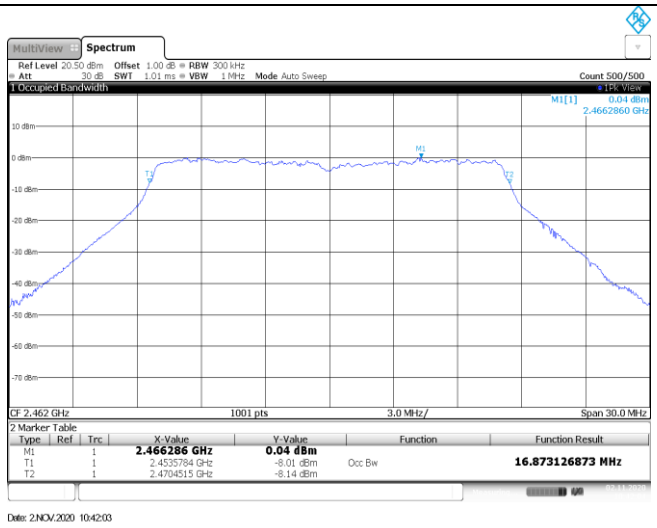
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

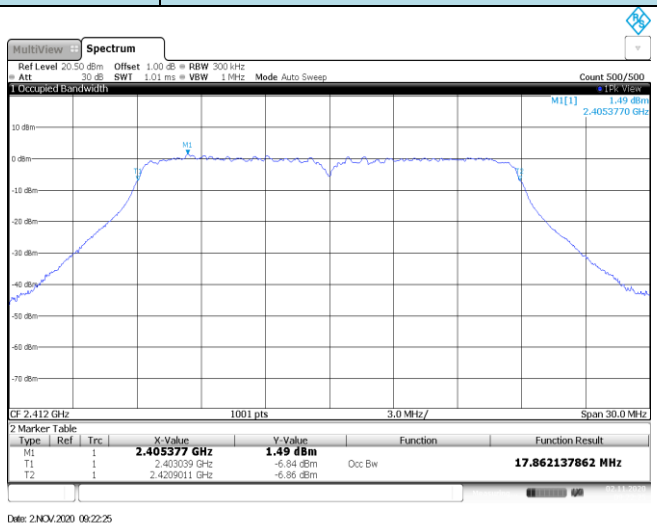
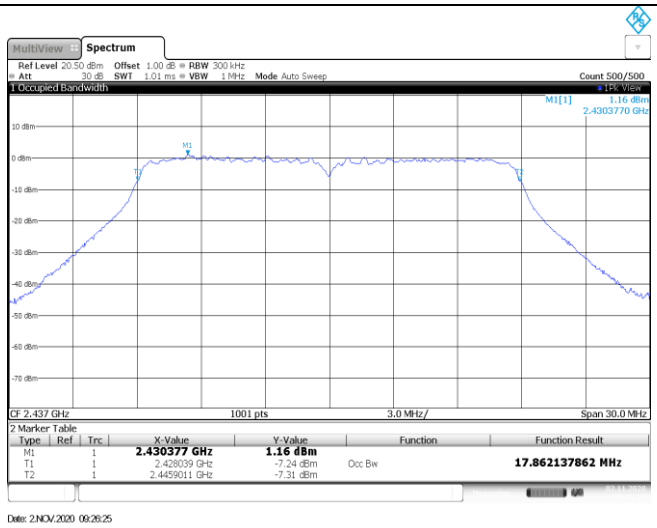
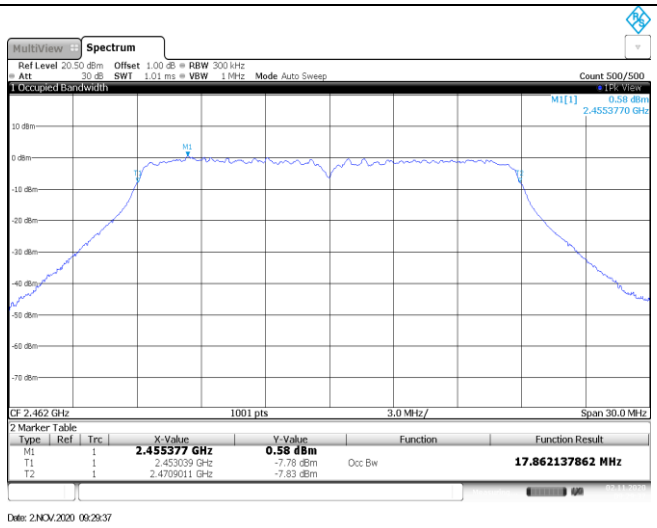
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

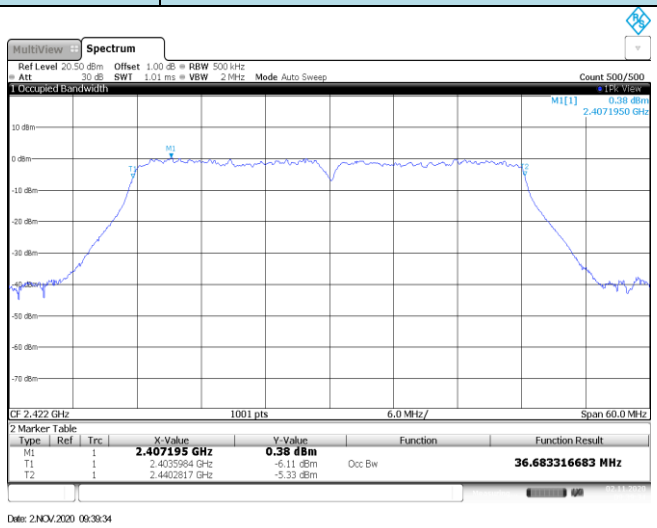
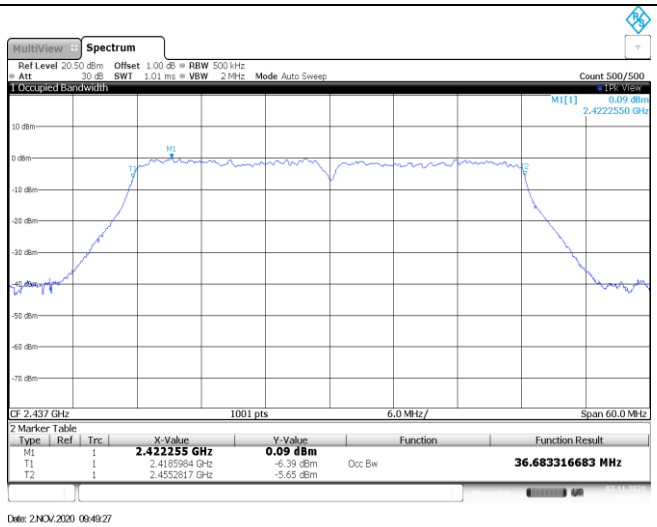
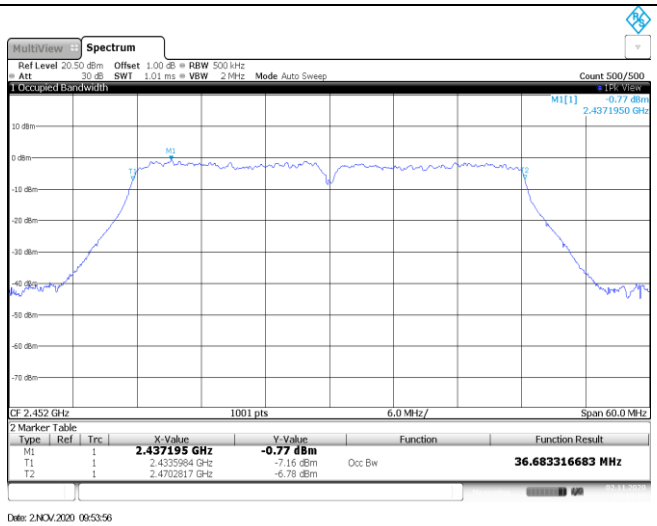
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	15.04	-	Pass
	06	15.04		
	11	15.07		
802.11g	01	16.87	-	Pass
	06	16.87		
	11	16.87		
802.11n(HT20)	01	17.86	-	Pass
	06	17.86		
	11	17.86		
802.11n(HT40)	03	36.68	-	Pass
	06	36.68		
	09	36.68		

Type:	802.11 b
CH01	
CH06	
CH11	

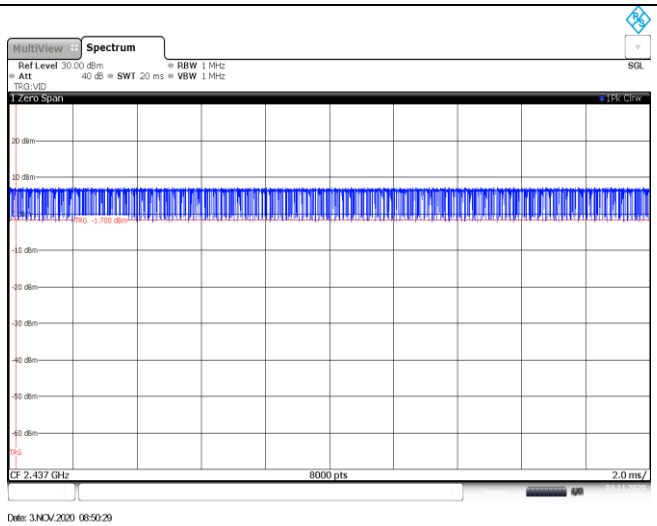
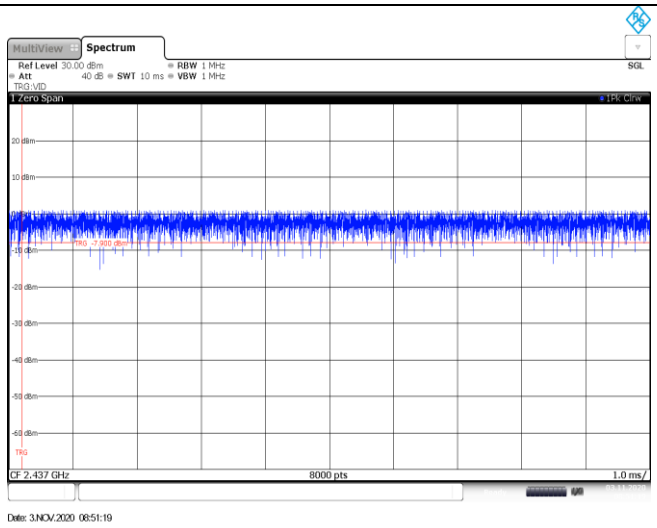
Type:	802.11 g
CH01	
CH06	
CH11	

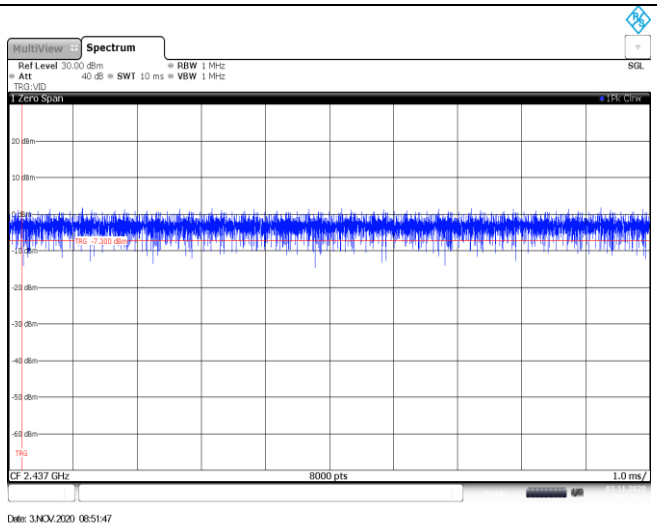
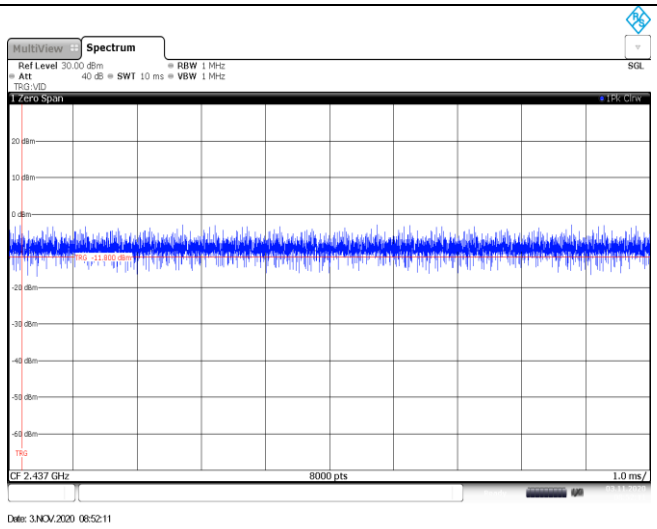
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Type:	802.11n(HT40)
CH03	
CH06	
CH09	

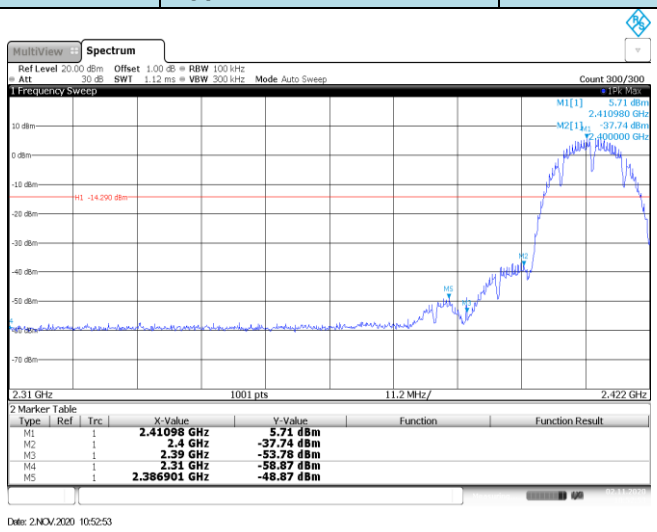
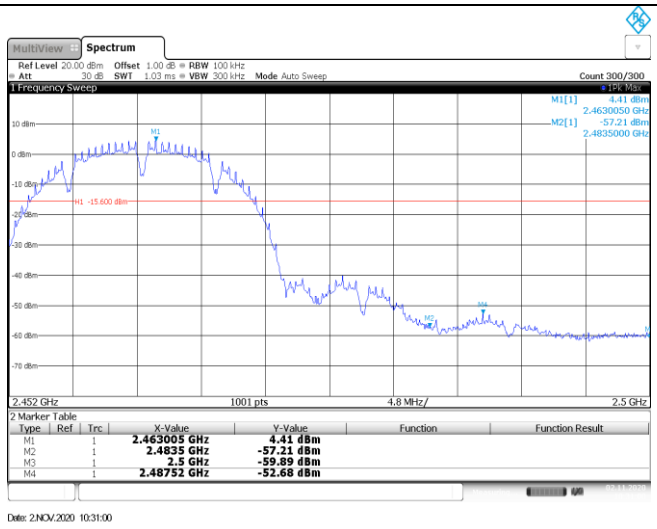
Appendix E：Duty Cycle

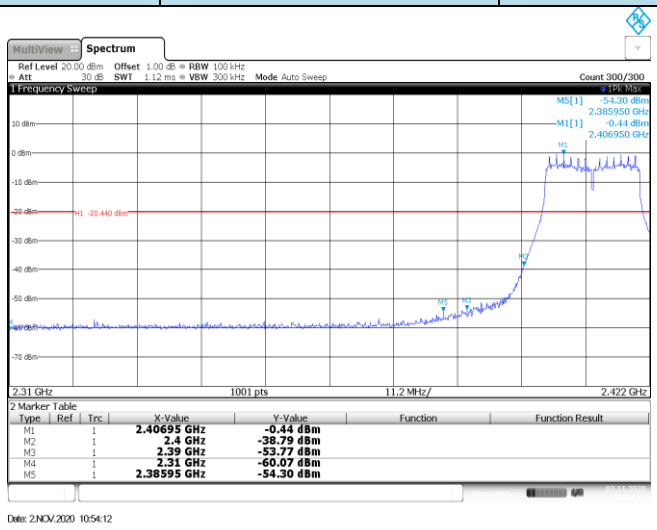
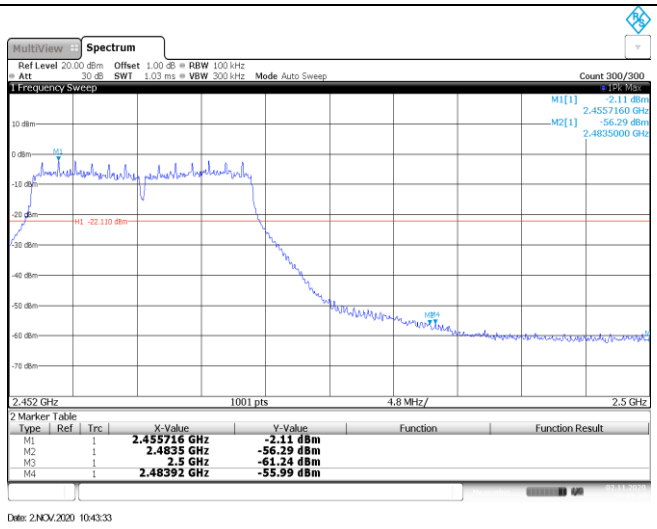
Modulation Type	Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	1.00	1.00	100%	1.0
11g	2437	1.00	1.00	100%	1.0
11n20	2437	1.00	1.00	100%	1.0
11n40	2437	1.00	1.00	100%	1.0

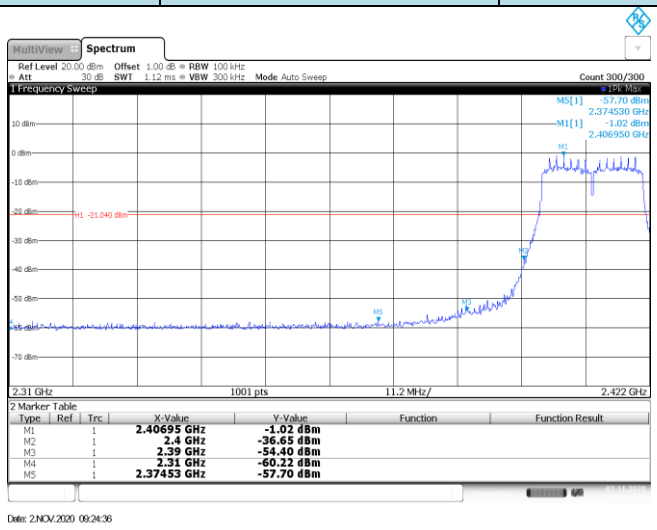
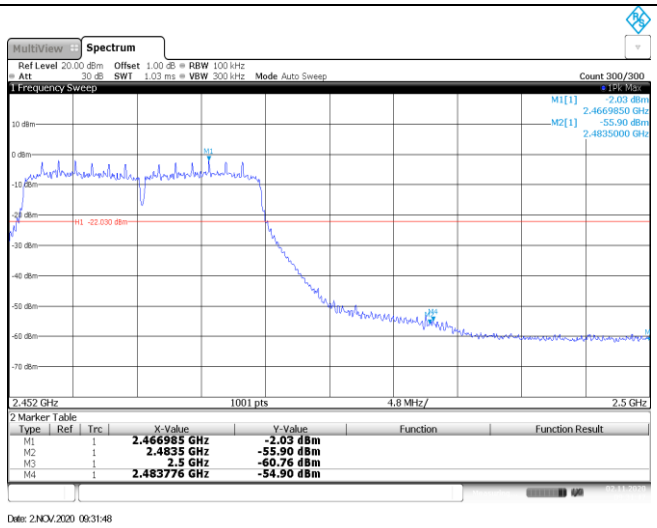
11b	
11g	

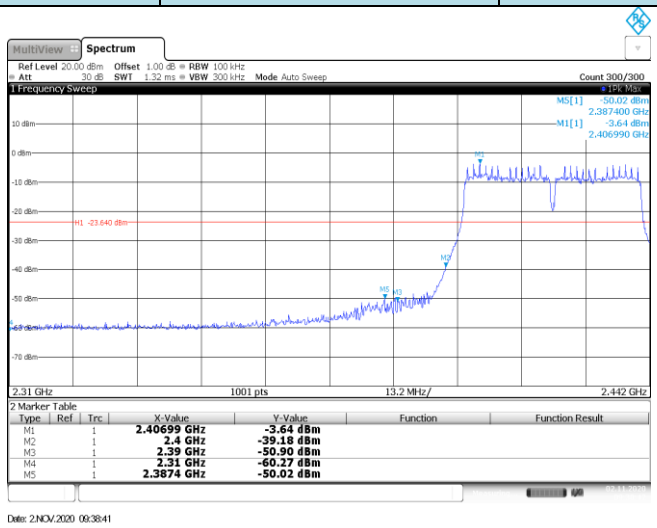
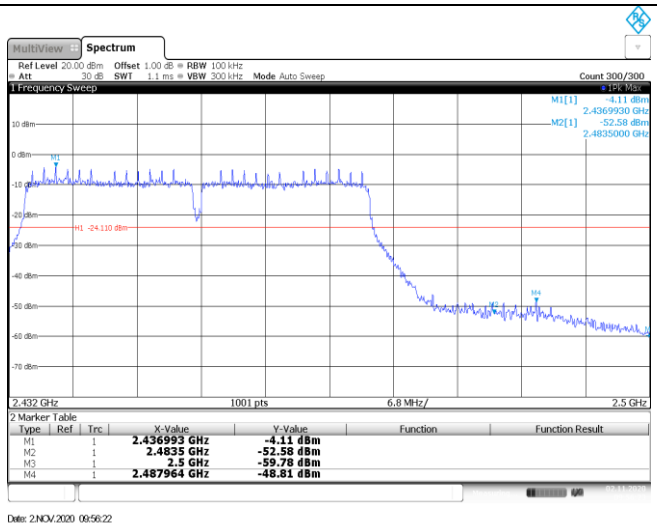
11n20	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz SGL TRG:VID 1 Zero Span 1Pk Clrw CF 2.437 GHz 8000 pts 1.0 ms/ Date: 3.NOV.2020 08:51:47
11n40	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz SGL TRG:VID 1 Zero Span 1Pk Clrw CF 2.437 GHz 8000 pts 1.0 ms/ Date: 3.NOV.2020 08:52:11

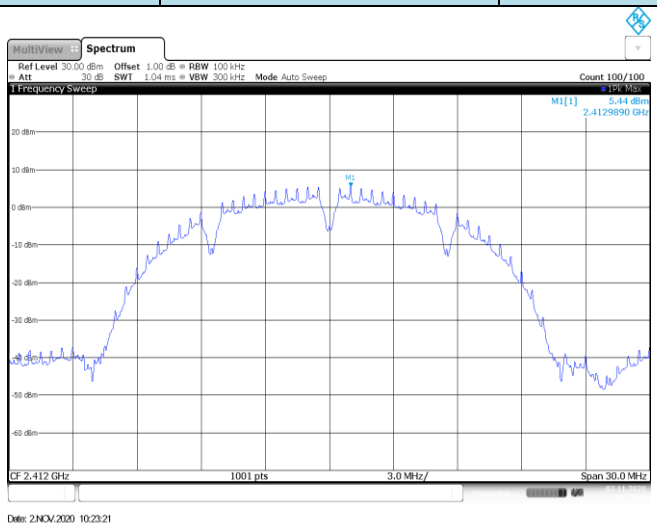
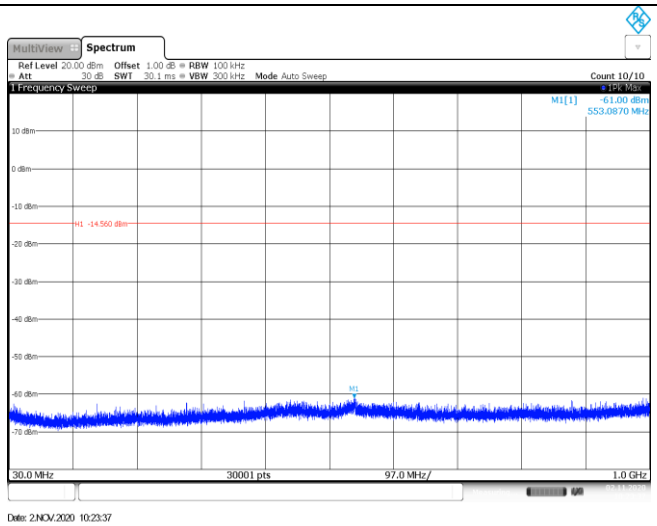
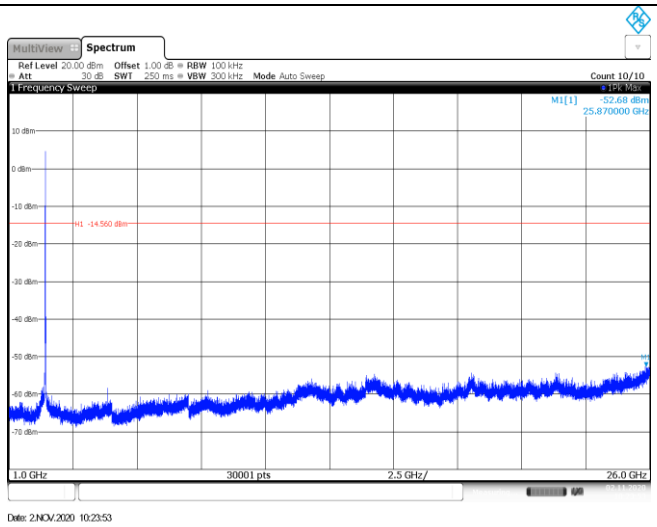
Appendix F：Band edge and Spurious Emissions (conducted)

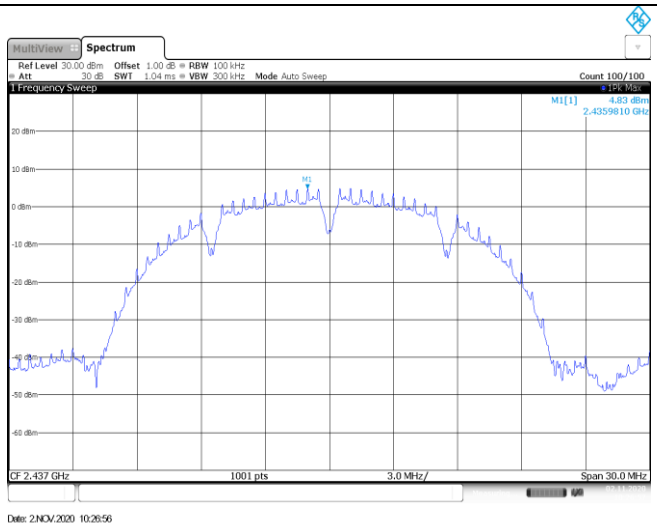
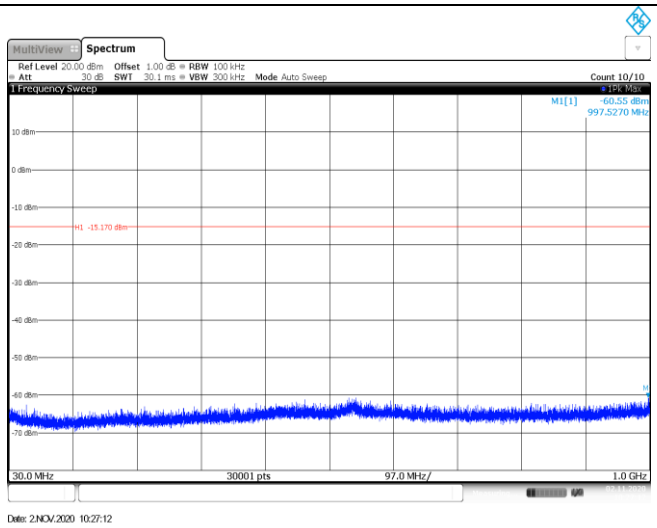
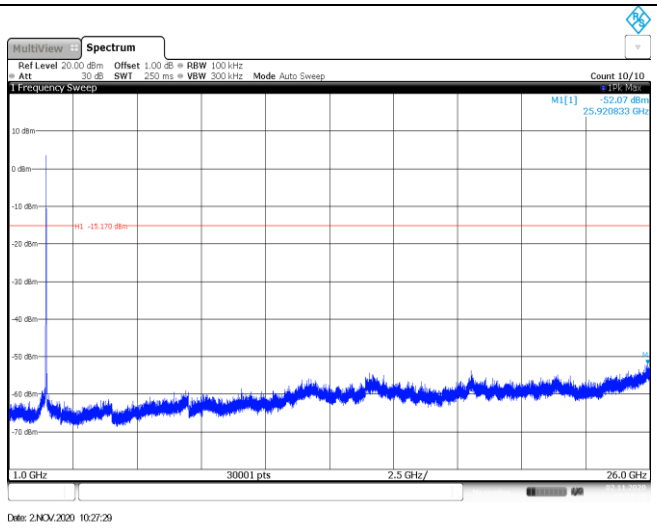
Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

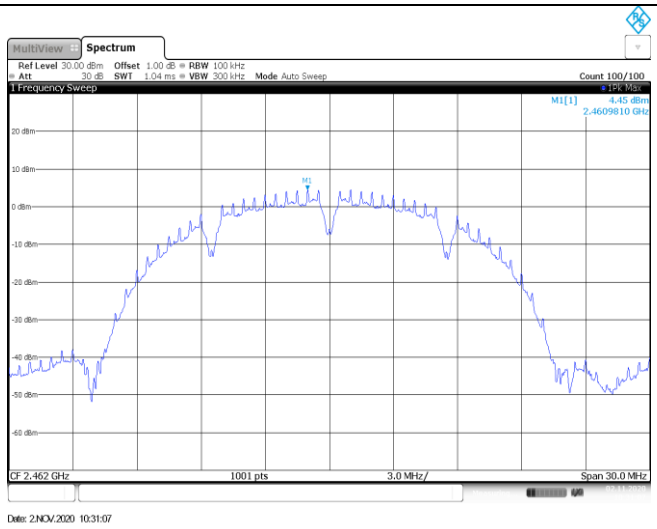
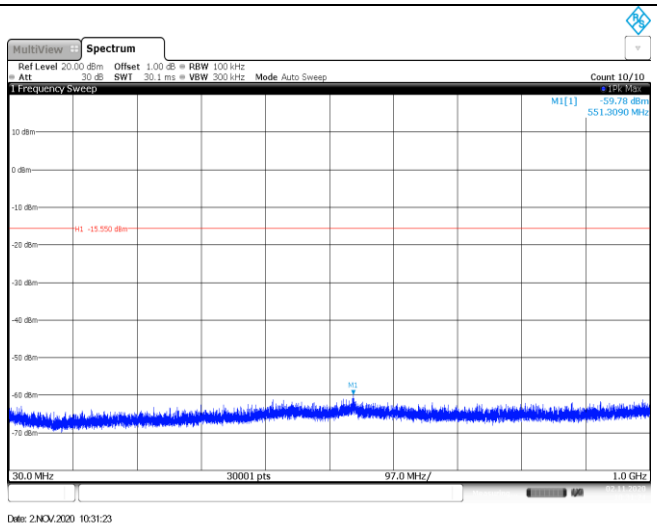
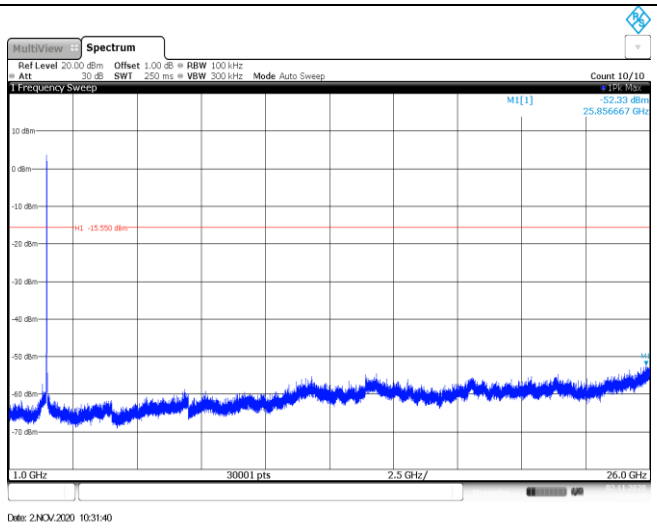
Test Item:	Bandedge	Type:	802.11 g
CH01	
CH11	

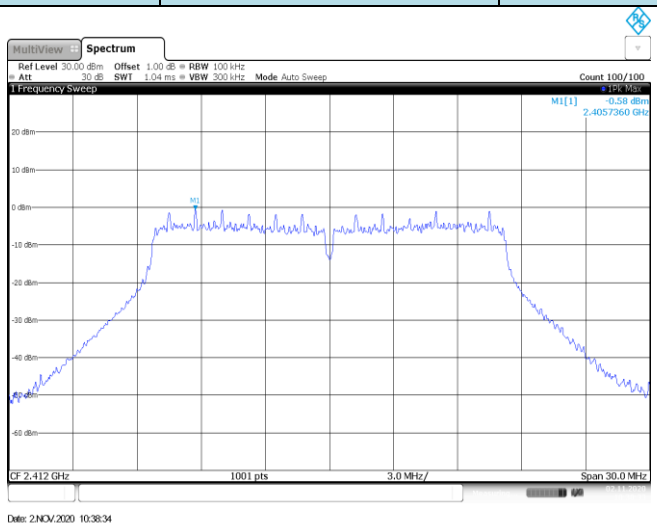
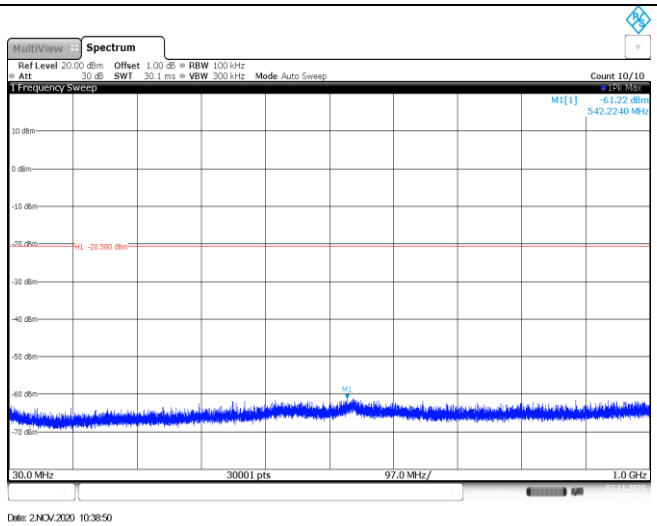
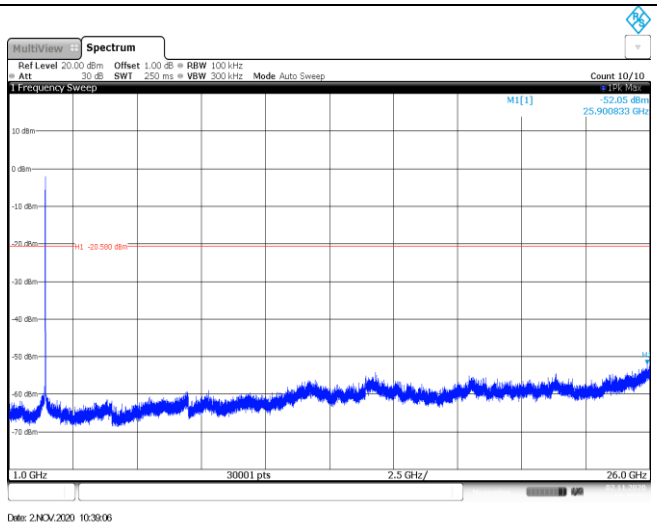
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

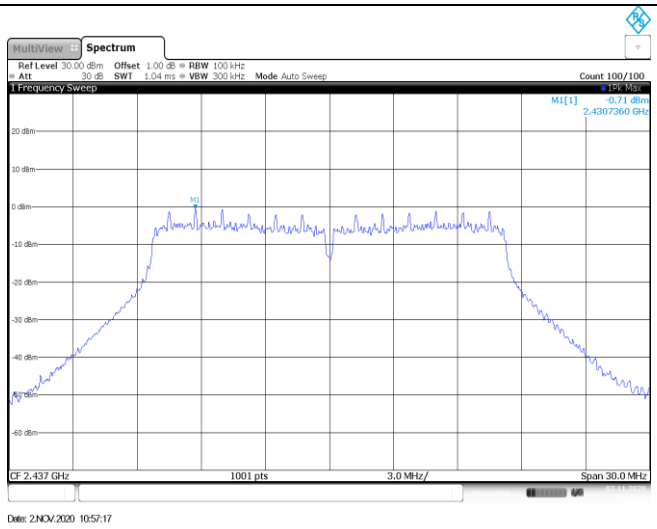
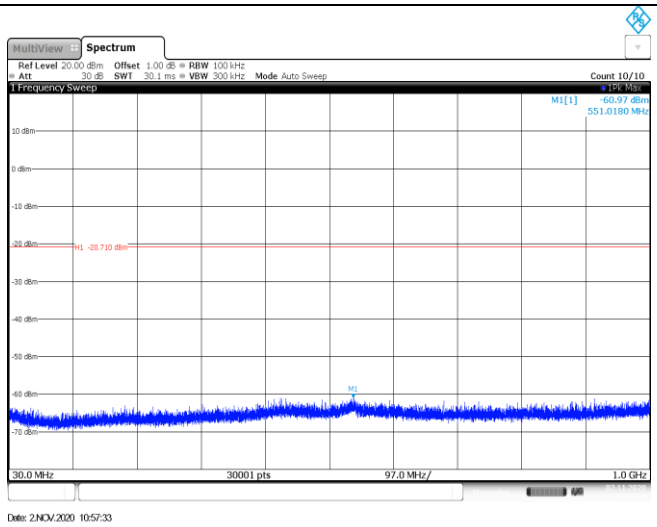
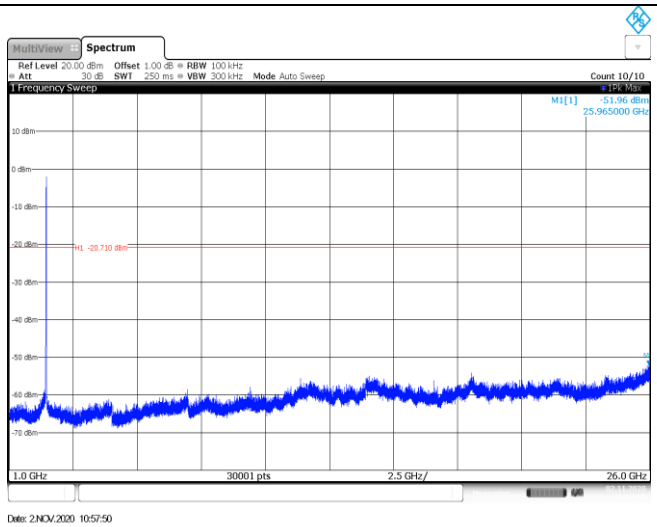
Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

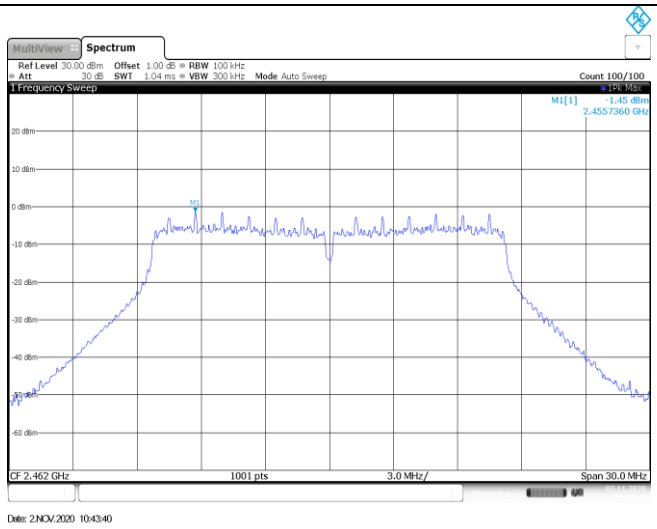
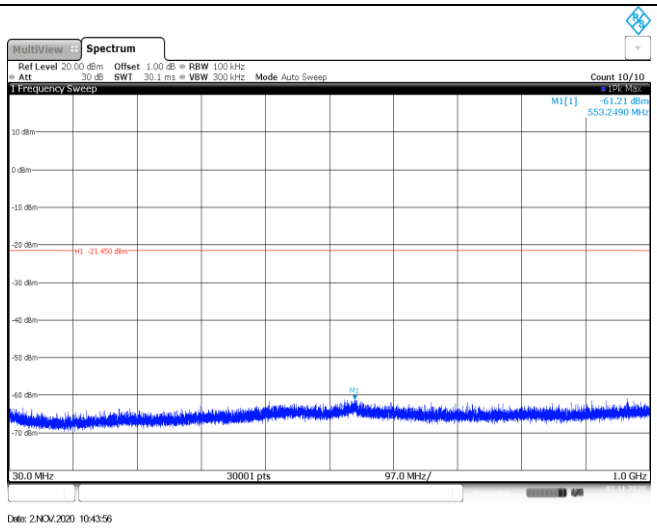
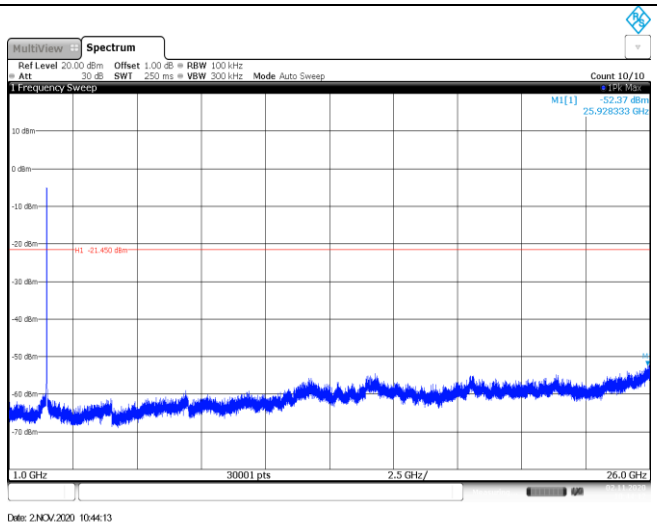
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

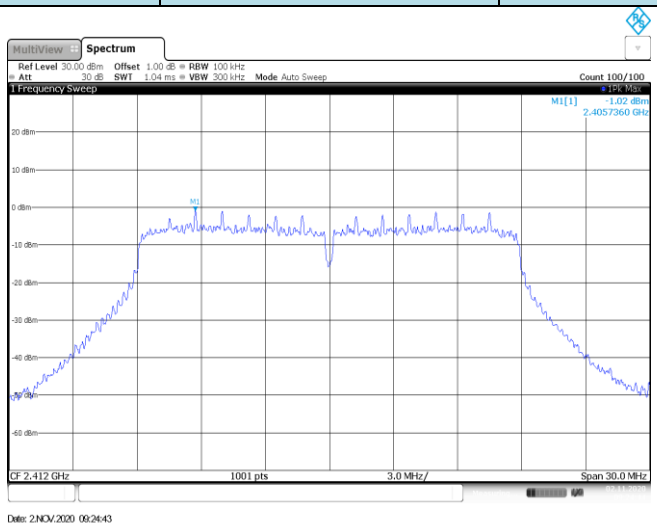
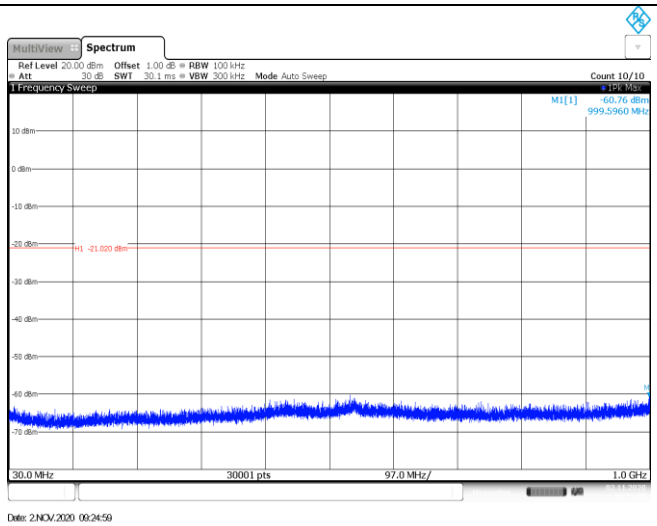
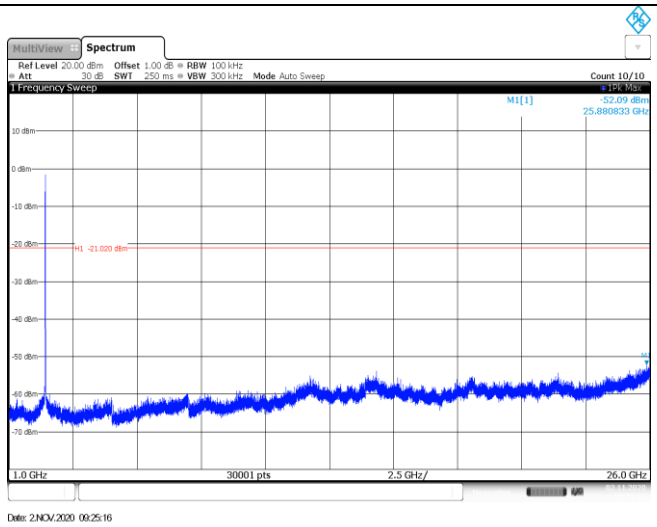
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

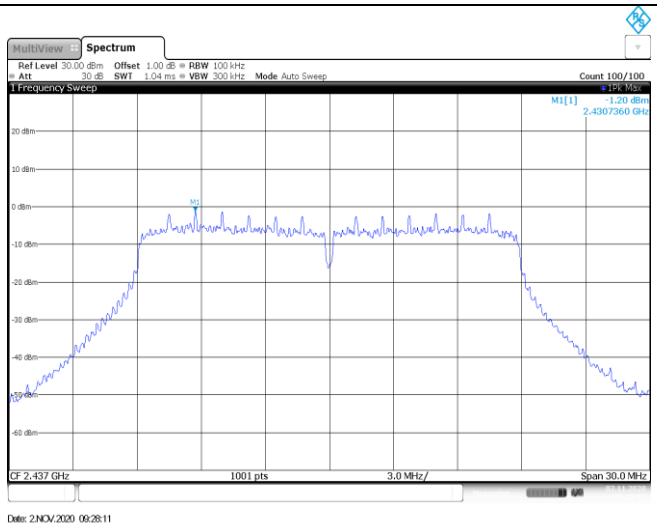
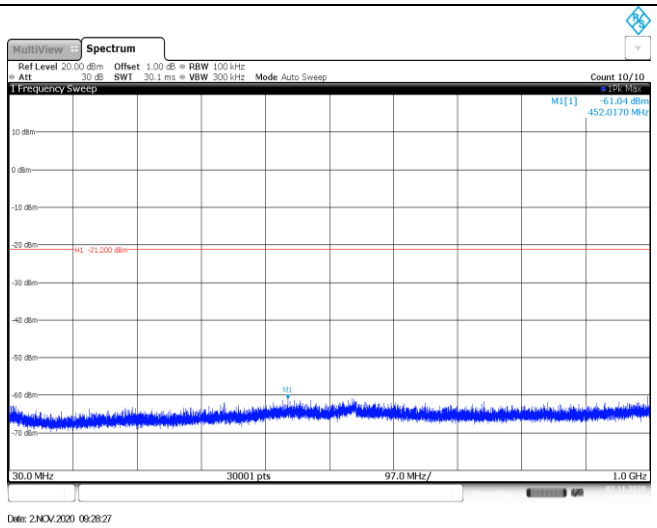
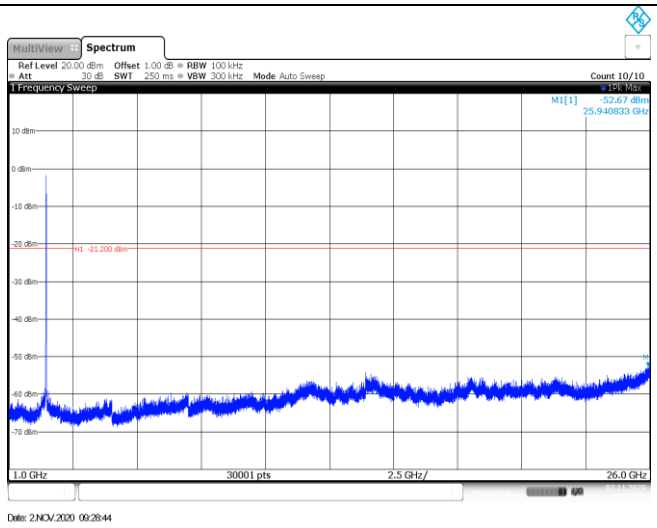
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

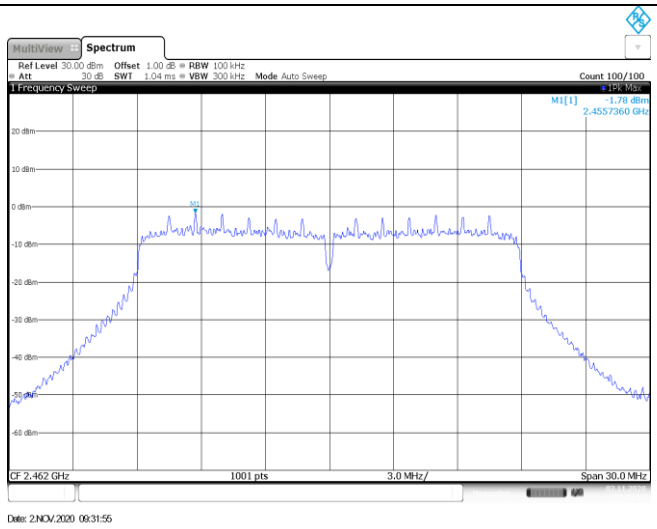
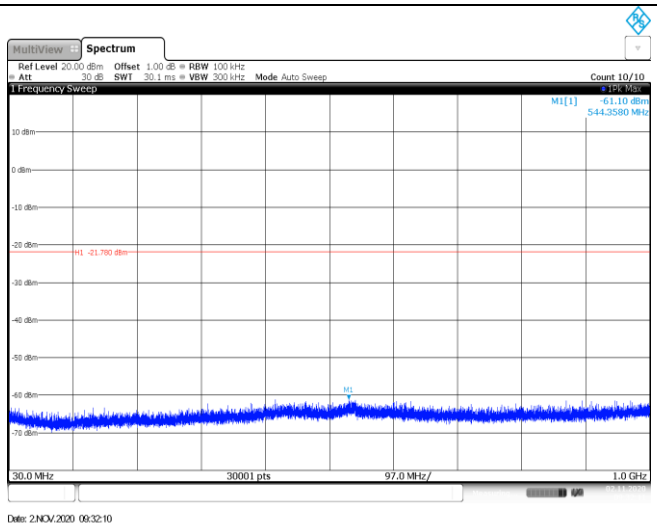
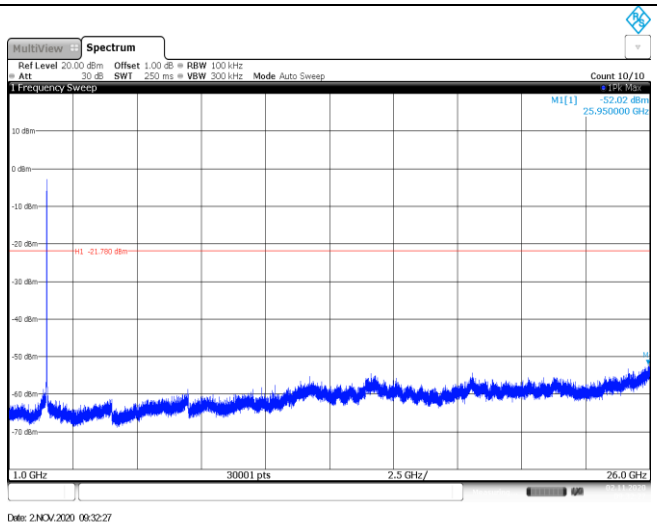
Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

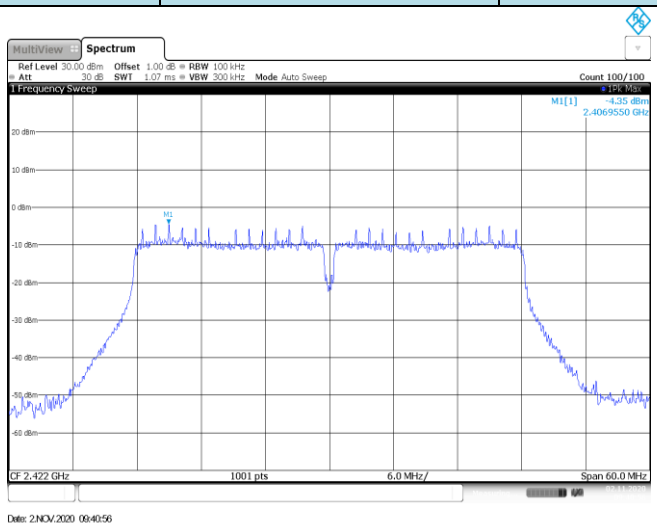
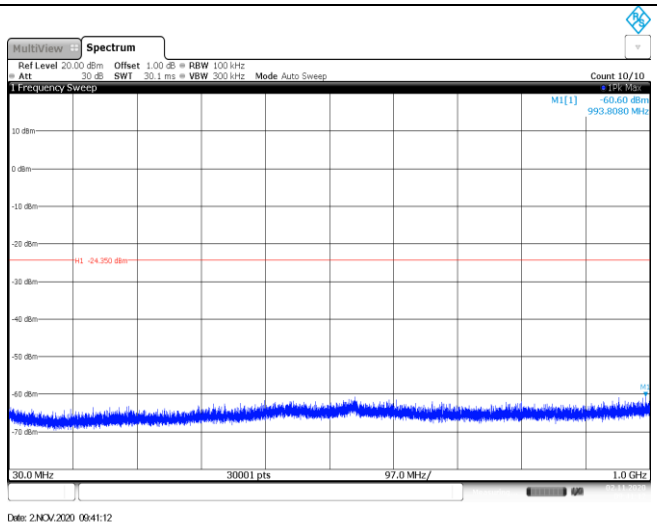
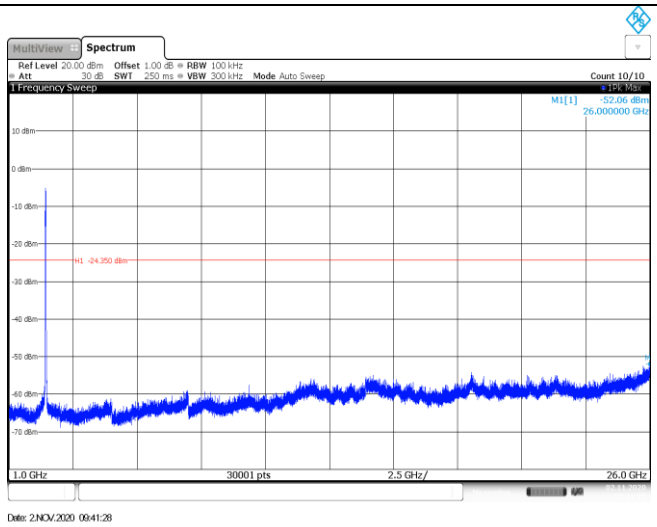
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

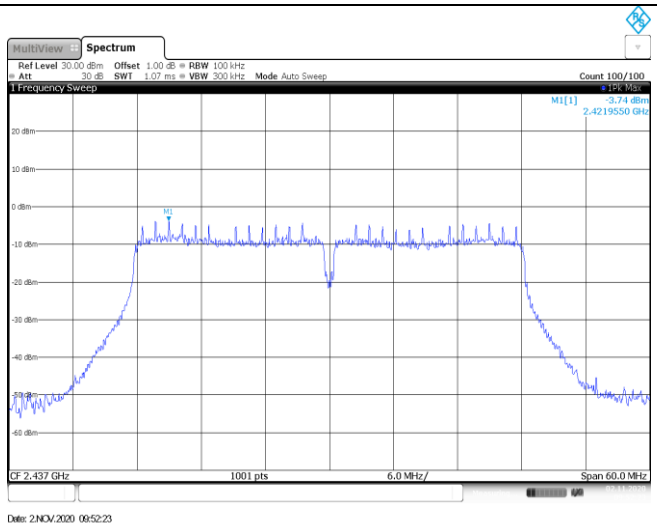
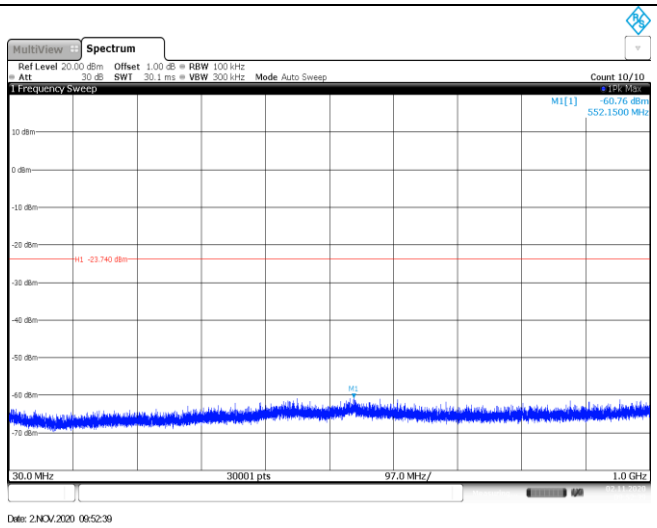
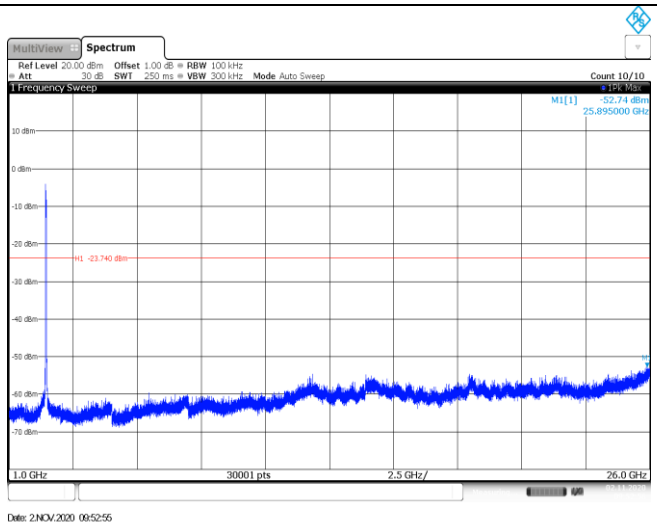
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

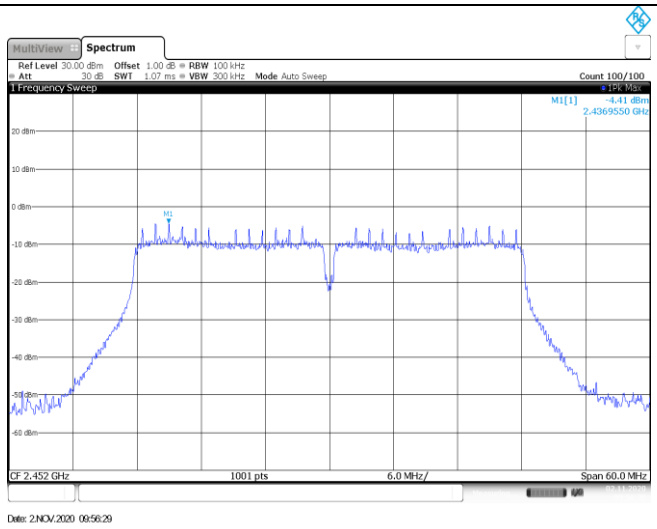
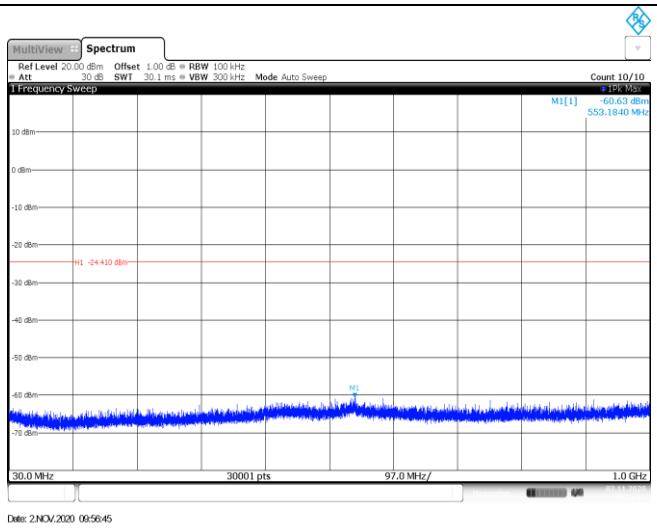
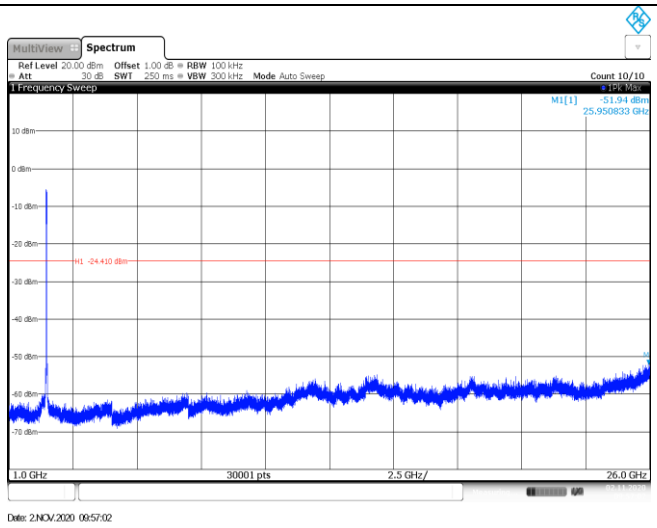
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level	
CH01 30MHz~1000MHz	
CH01 1GHz~26GHz	

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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