APPENDIX REPORT

Project No.	SHT2204017202EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT2204172008	Model No.	ABX00051
Start test date	2023-02-03	Finish date	2023-02-03
Temperature	23.1℃	Humidity	31%
Test Engineer	Xiaoqin Li	Auditor	

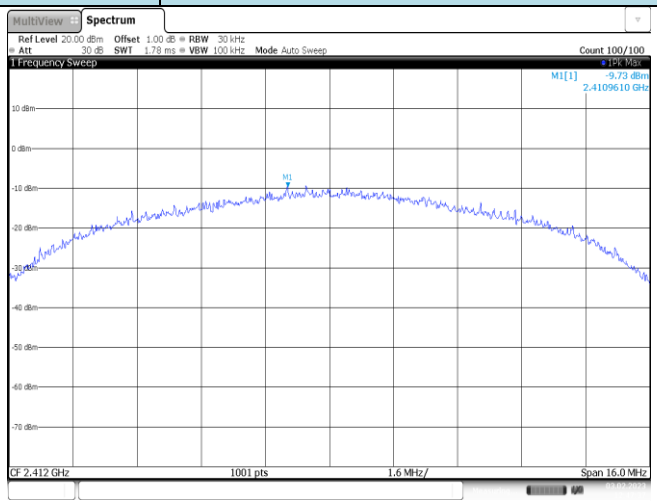
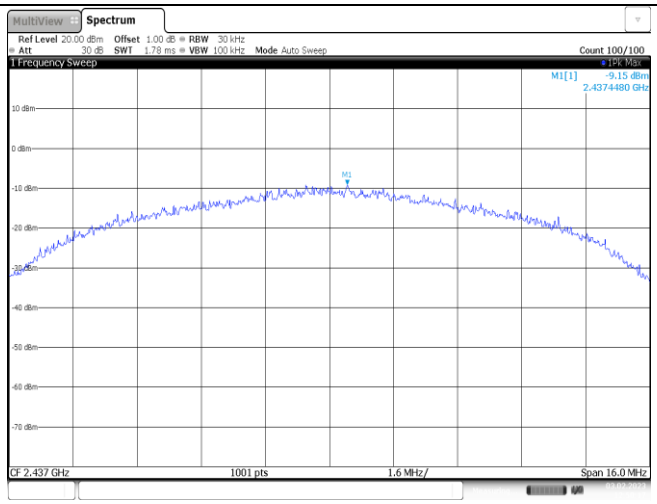
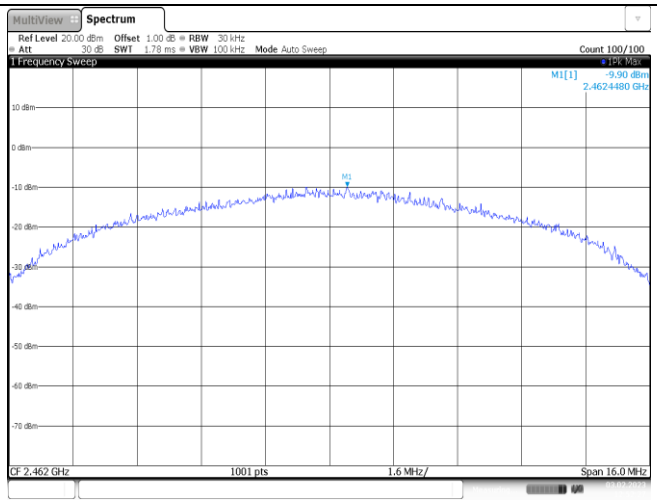
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

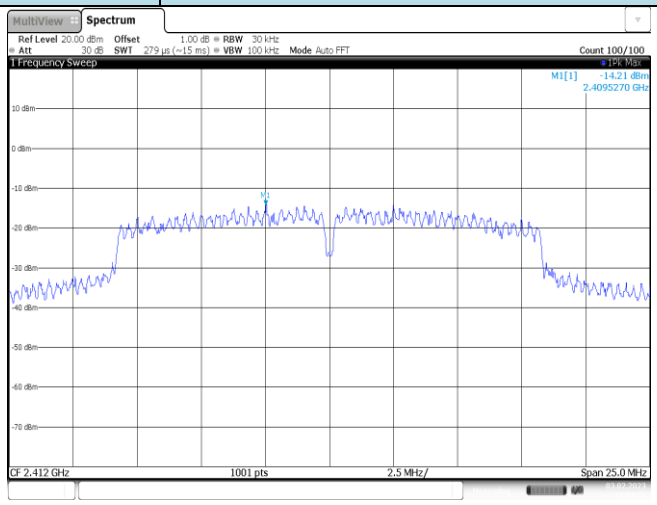
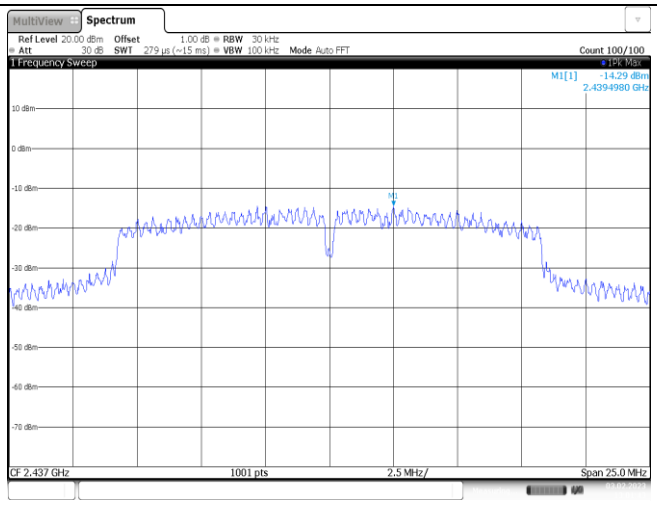
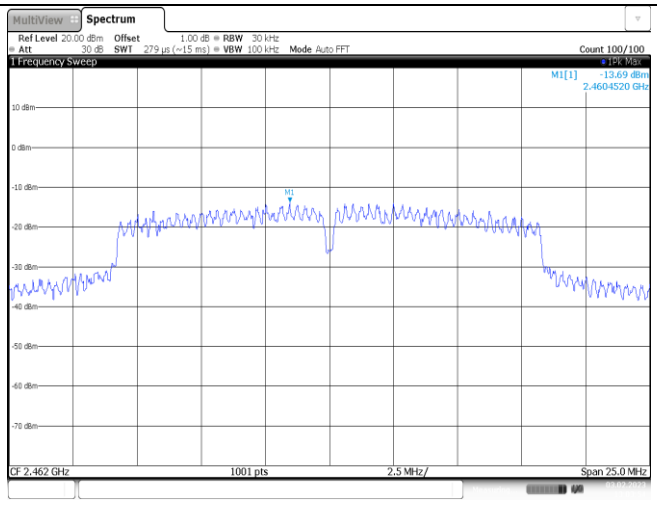
Appendix A：Conducted Peak Output Power

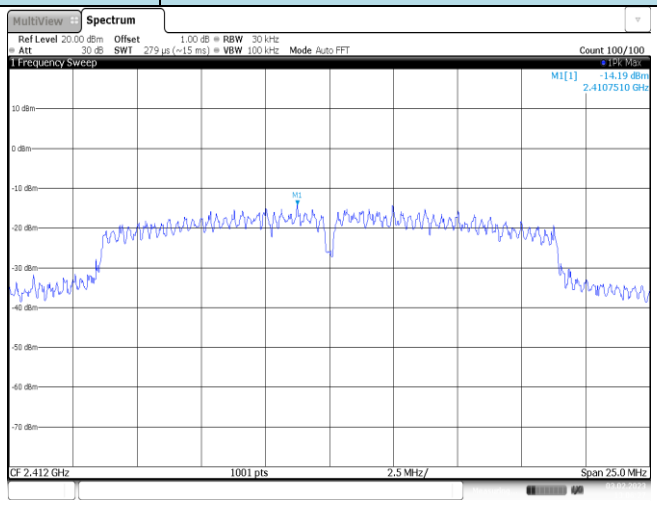
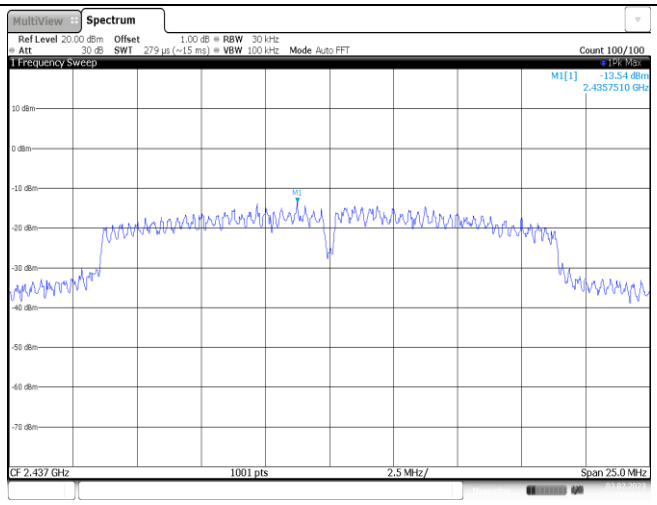
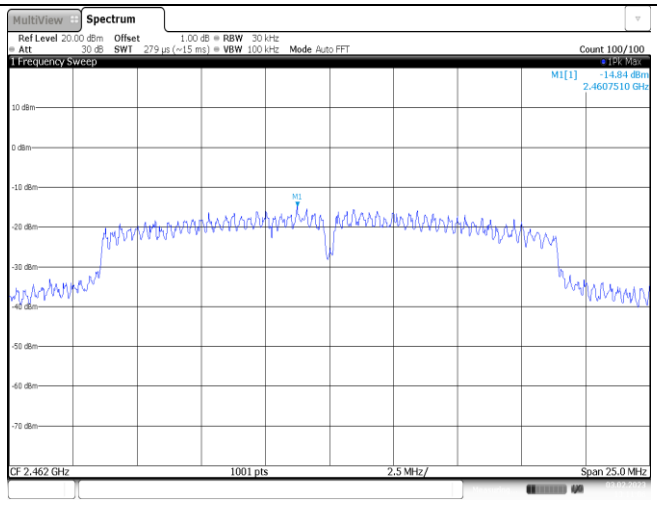
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	9.59	8.18	≤ 30.00	Pass
	06	9.93	8.32		
	11	9.00	7.28		
802.11g	01	11.10	8.68	≤ 30.00	Pass
	06	11.38	8.94		
	11	10.35	8.12		
802.11n (HT20)	01	10.79	8.34	≤ 30.00	Pass
	06	10.87	8.56		
	11	9.94	7.70		

Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-9.73	≤8.00	Pass
	06	-9.15		
	11	-9.90		
802.11g	01	-14.21	≤8.00	Pass
	06	-14.29		
	11	-13.69		
802.11n(HT20)	01	-14.19	≤8.00	Pass
	06	-13.54		
	11	-14.84		

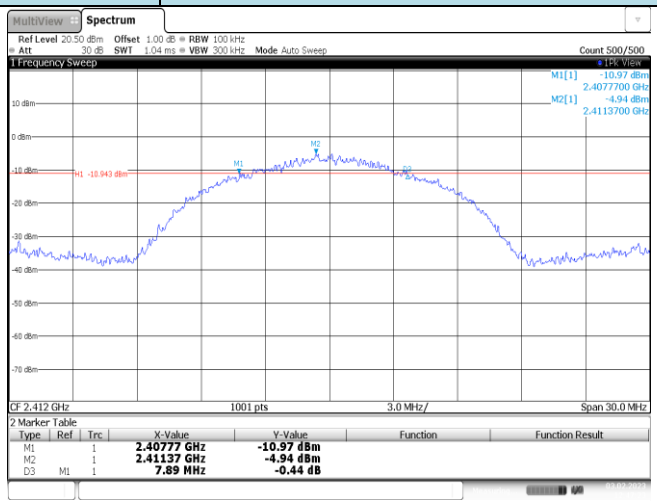
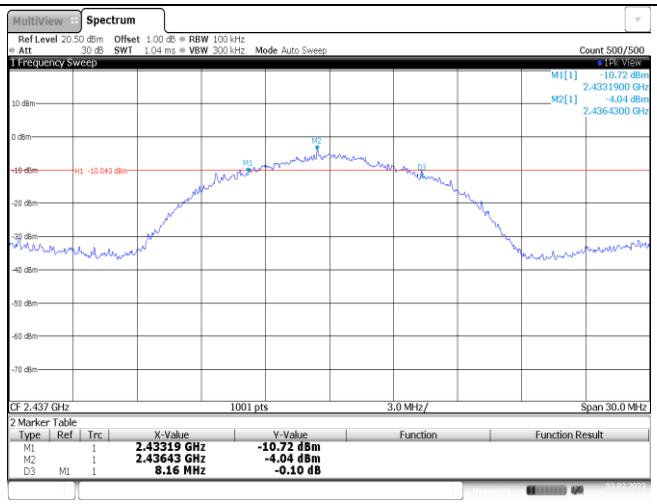
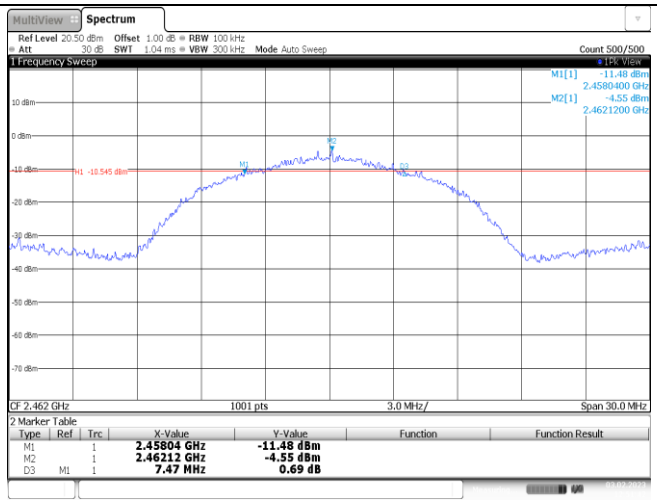
Type:	802.11 b
CH01	
CH06	
CH11	

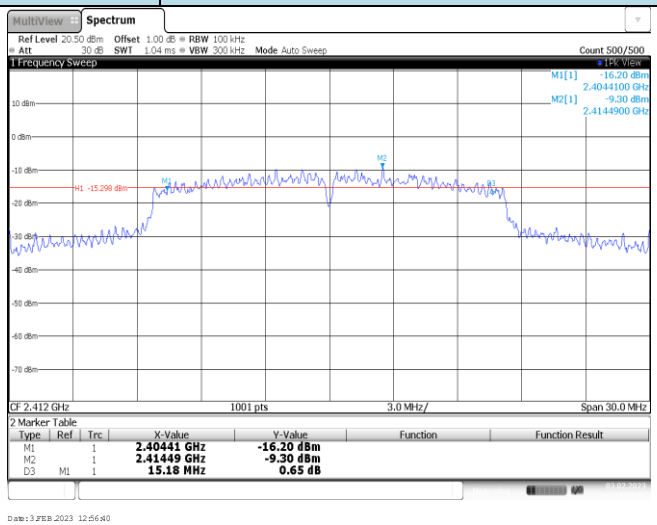
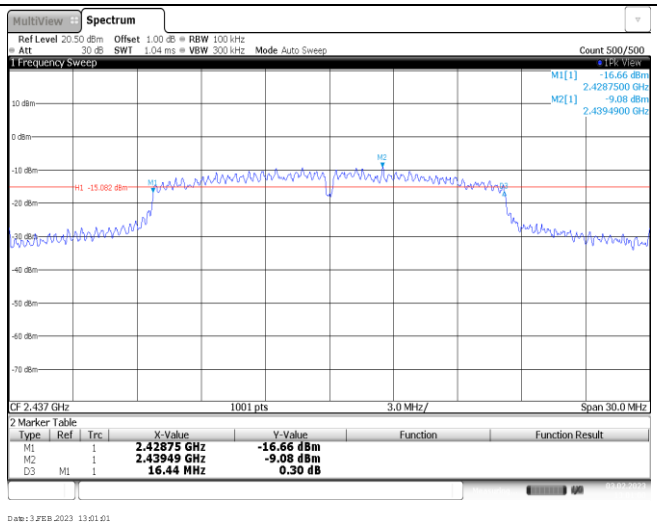
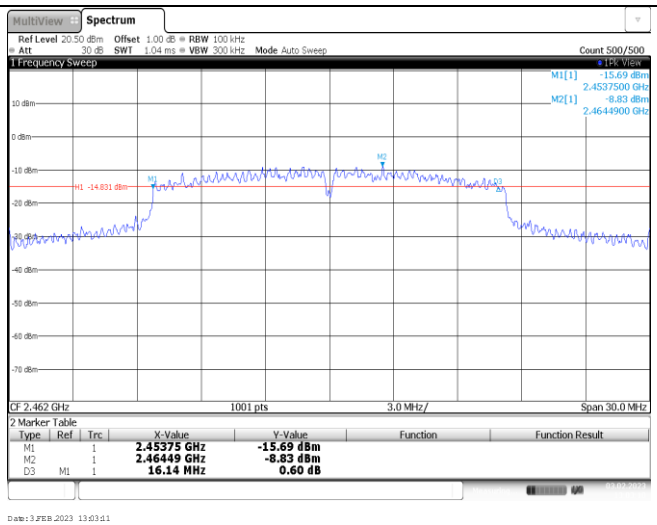
Type:	802.11 g
CH01	
CH06	
CH11	

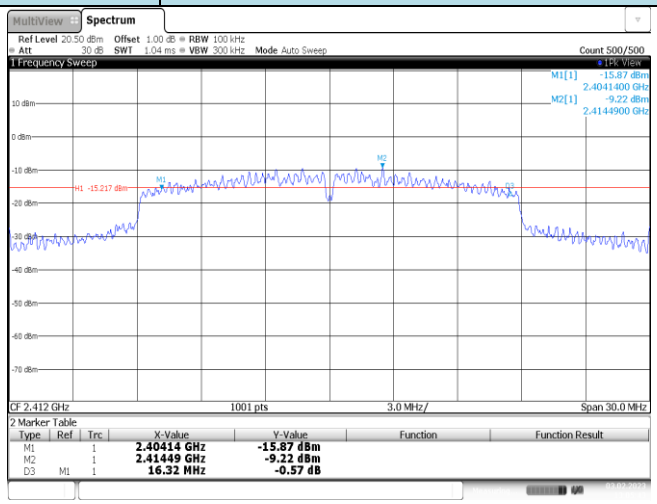
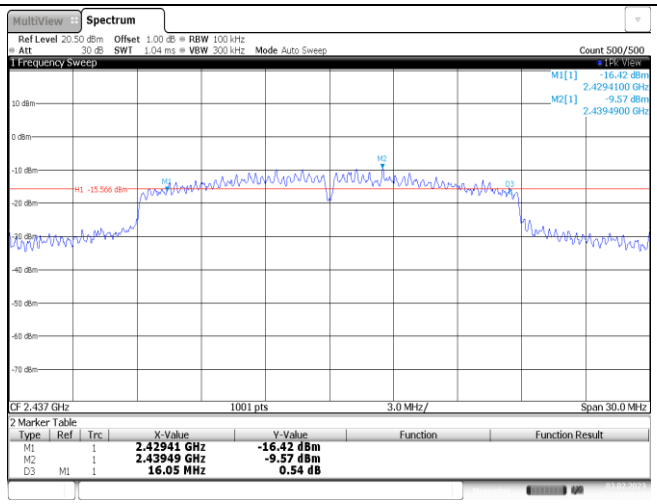
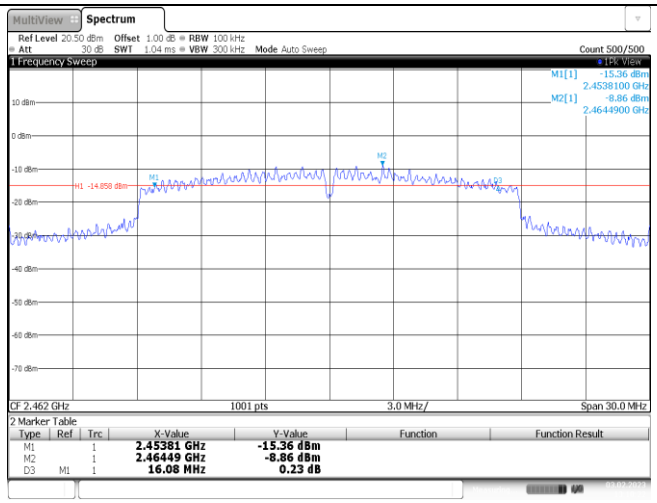
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	7.89	≥0.5	Pass
	06	8.16		
	11	7.47		
802.11g	01	15.18	≥0.5	Pass
	06	16.44		
	11	16.14		
802.11n(HT20)	01	16.32	≥0.5	Pass
	06	16.05		
	11	16.08		

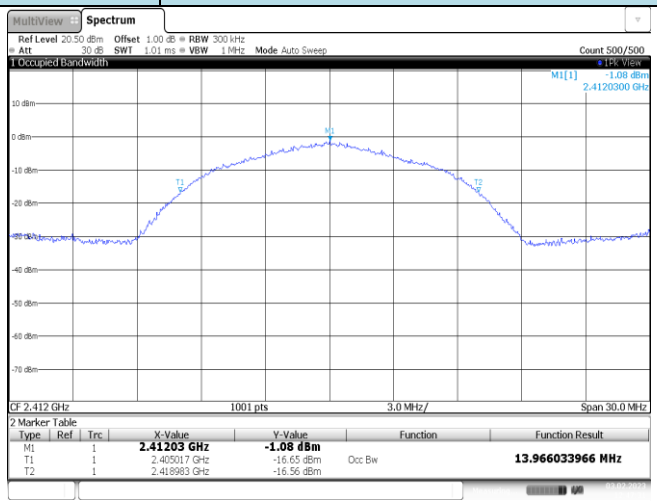
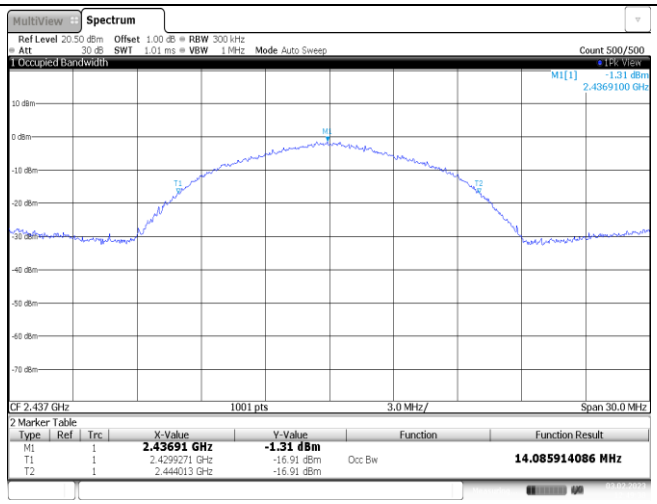
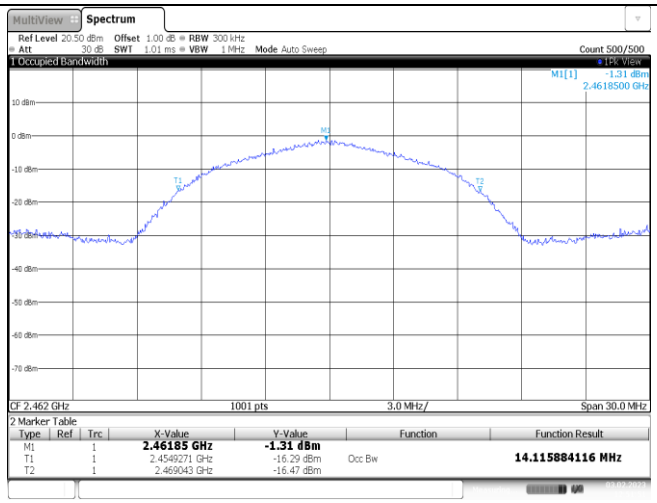
Type:	802.11 b
CH01	
CH06	
CH11	

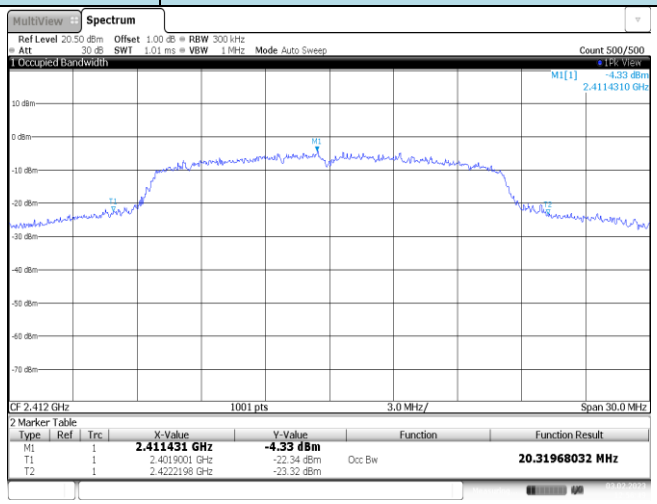
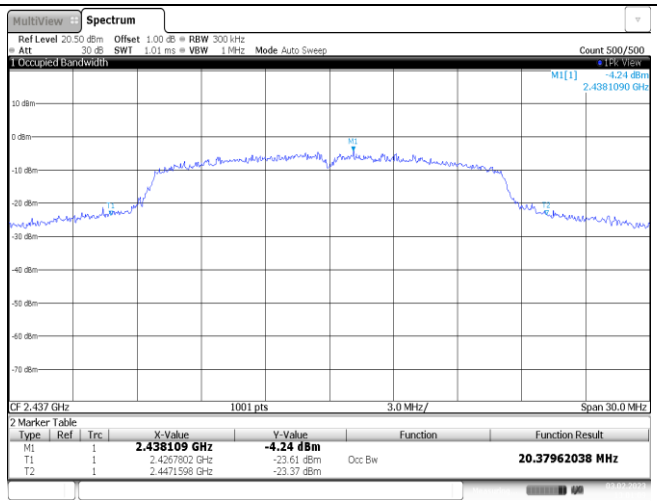
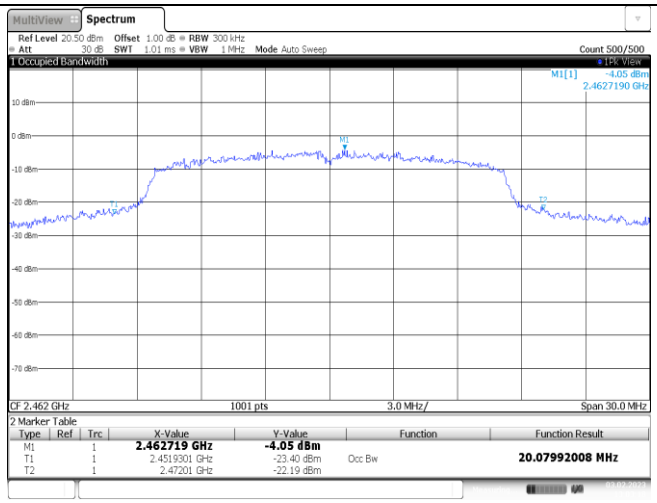
Type:	802.11 g
CH01	
CH06	
CH11	

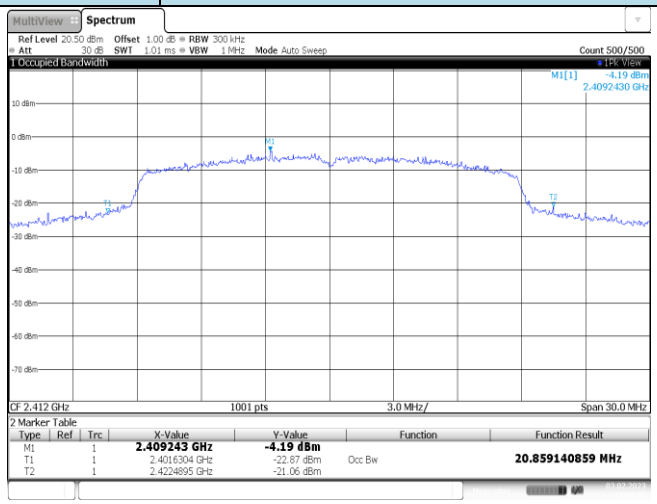
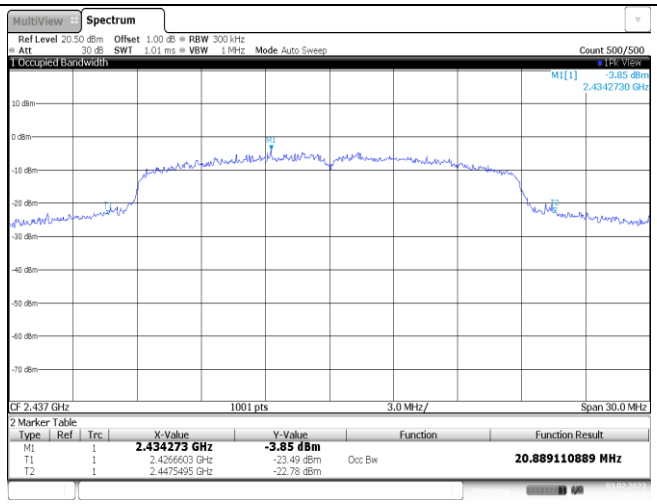
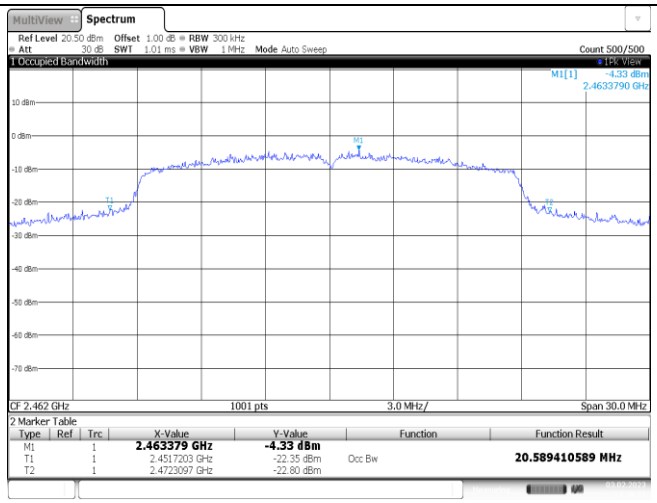
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	13.97	-	Pass
	06	14.09		
	11	14.12		
802.11g	01	20.32	-	Pass
	06	20.38		
	11	20.08		
802.11n(HT20)	01	20.86	-	Pass
	06	20.89		
	11	20.59		

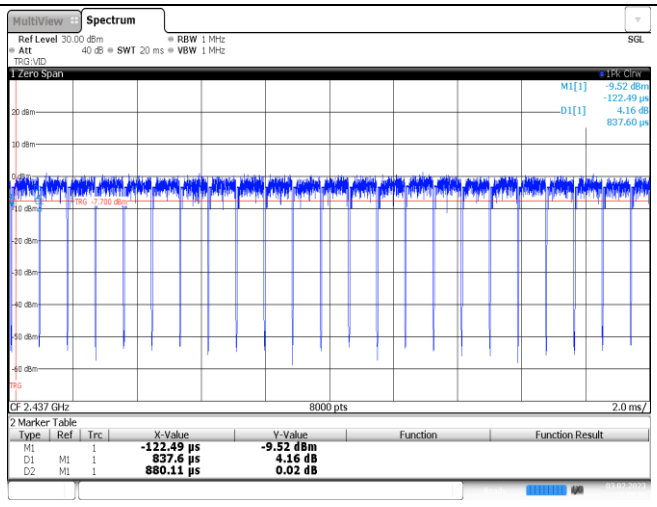
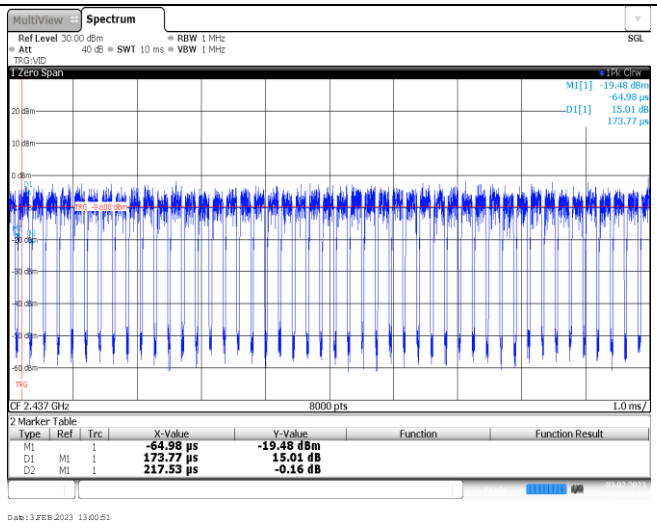
Type:	802.11 b
CH01	
CH06	
CH11	

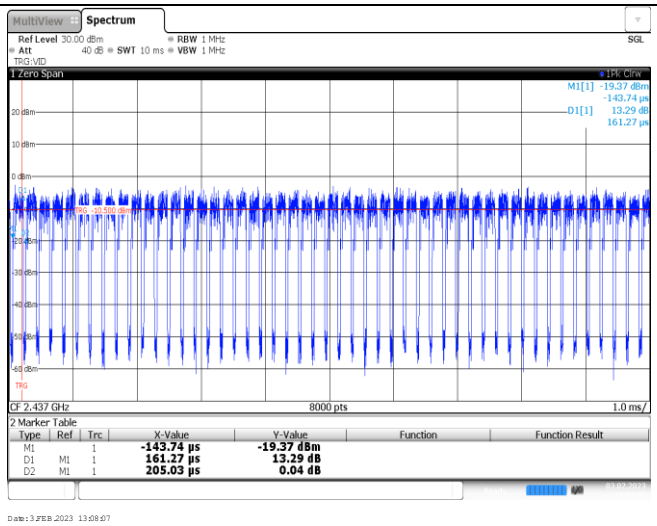
Type:	802.11 g
CH01	
CH06	
CH11	

Type:	802.11n(HT20)
CH01	
CH06	
CH11	

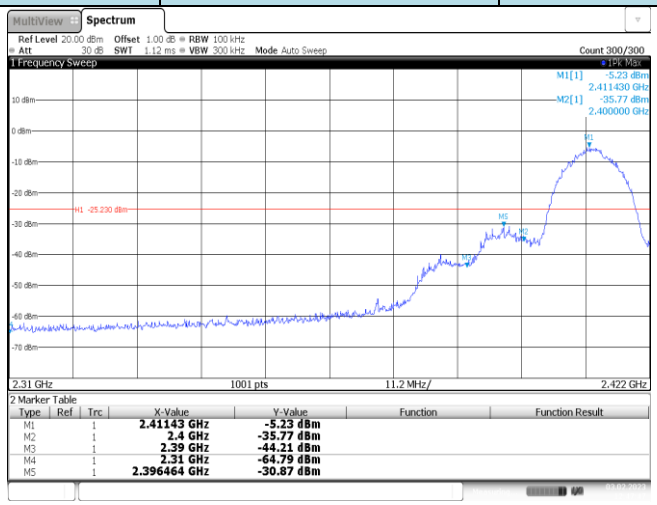
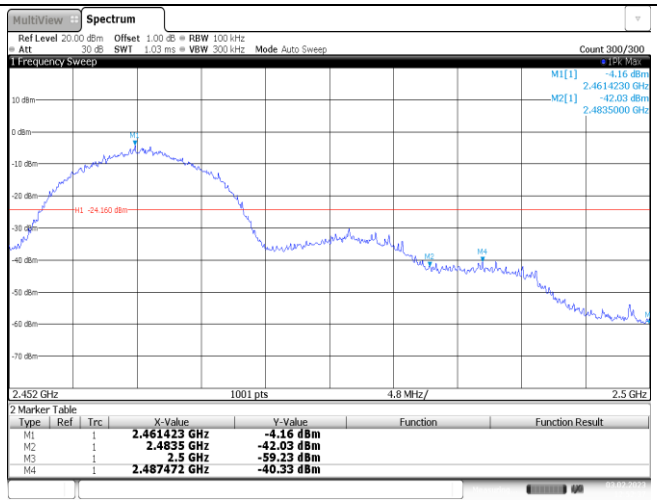
Appendix E：Duty Cycle

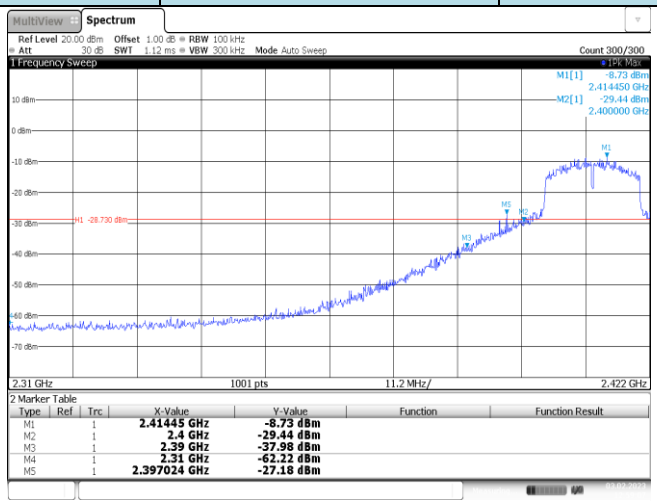
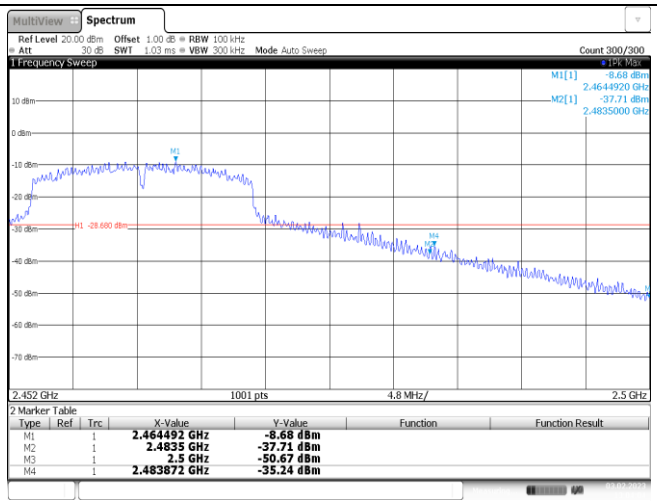
Modulation Type	Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	0.84	0.88	95.5%	1.19
11g	2437	0.17	0.22	77.3%	5.88
11n20	2437	0.16	0.21	76.2%	6.25

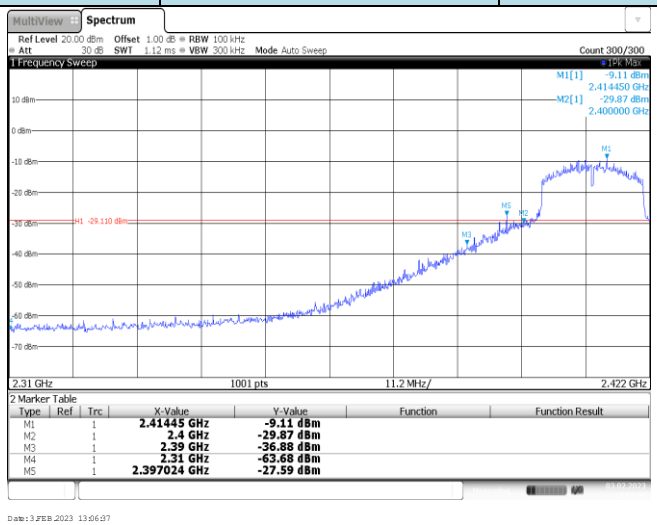
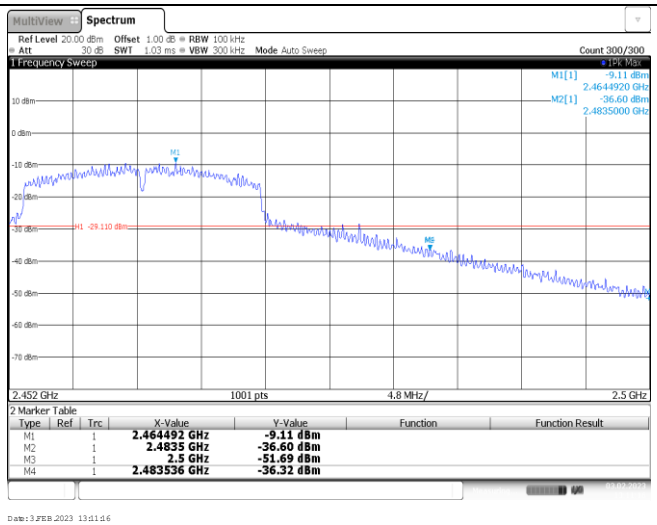
11b	
11g	

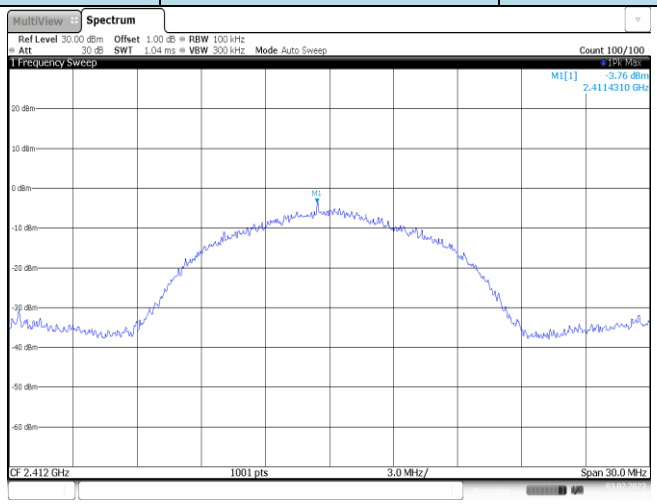
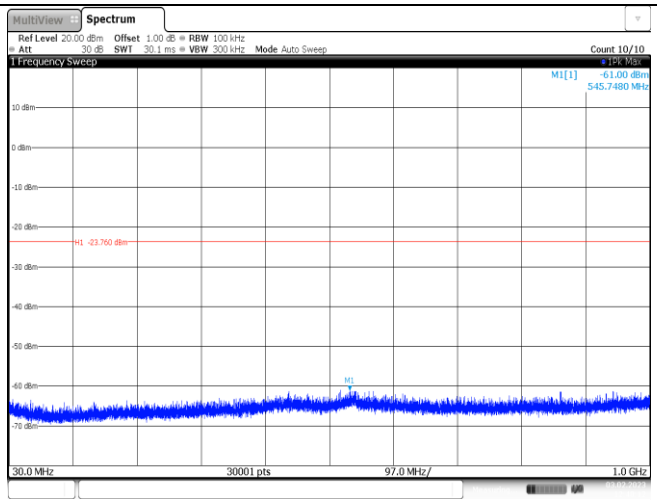
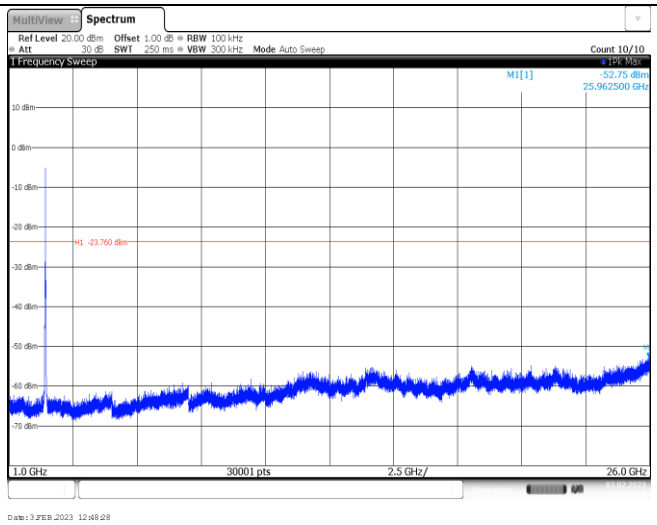
11n20	 MultiView Spectrum Ref Level 30.00 dBm Att 40 dB SWT 10 ms RBW 1 MHz VBW 1 MHz SGL TRG:VID 1 Zero Span 1Pk Clrw M1[1] -19.37 dBm -143.74 µs D1[1] 13.29 dB 161.27 µs 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm TRG CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 -143.74 µs -19.37 dBm D1 M1 1 161.27 µs 13.29 dB D2 M1 1 205.03 µs 0.04 dB Date: 3.FEB.2023 13:08:07

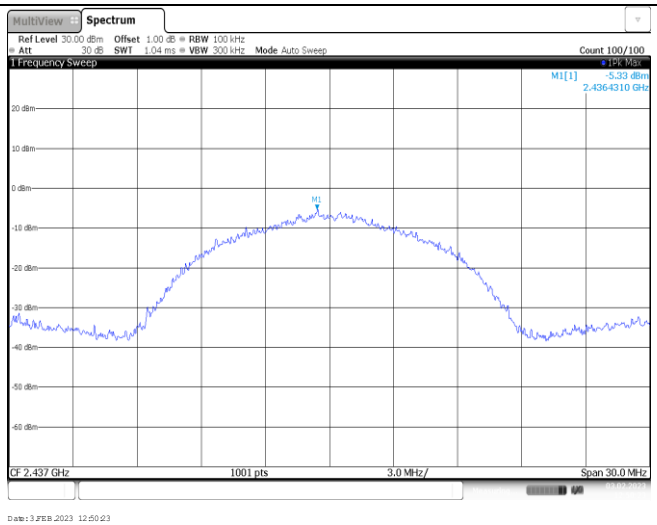
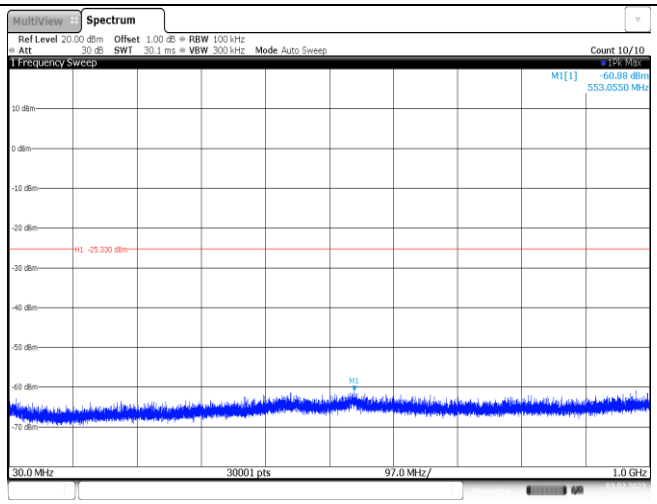
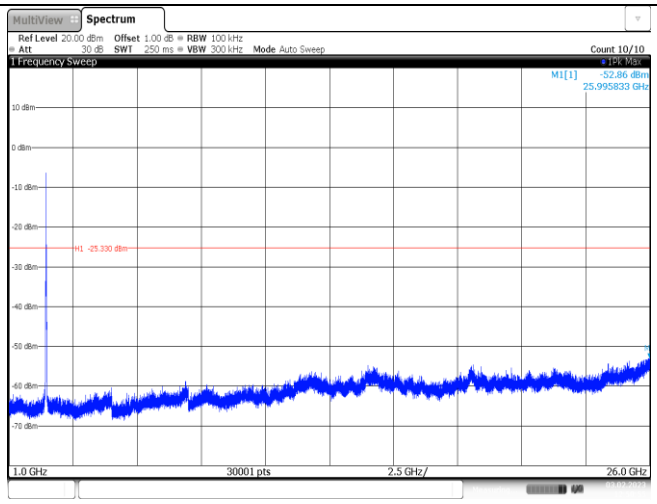
Appendix F：Band edge and Spurious Emissions (conducted)

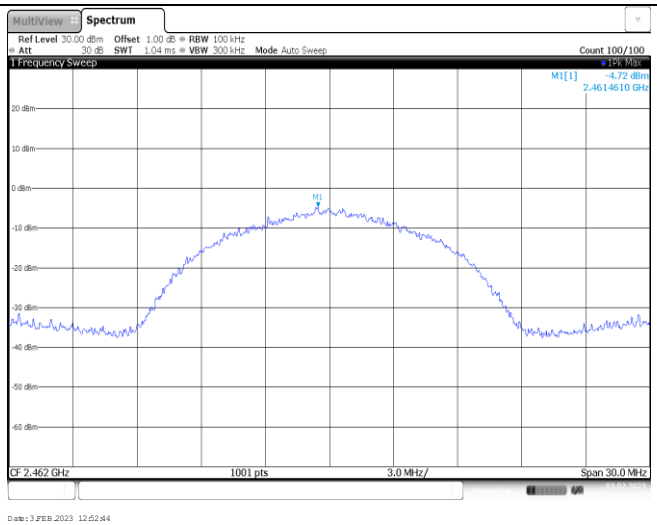
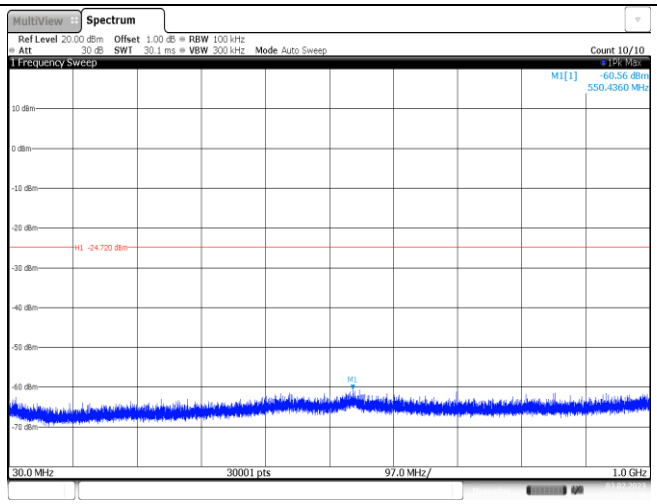
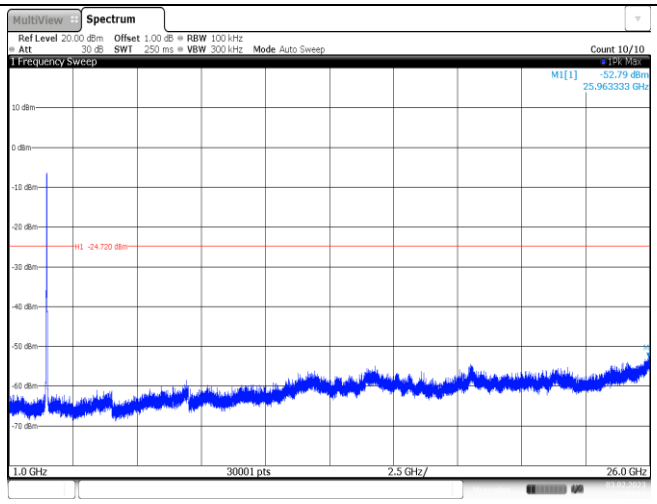
Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

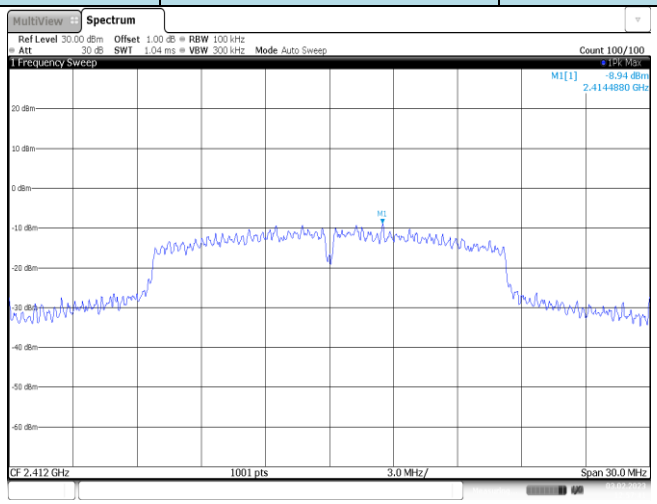
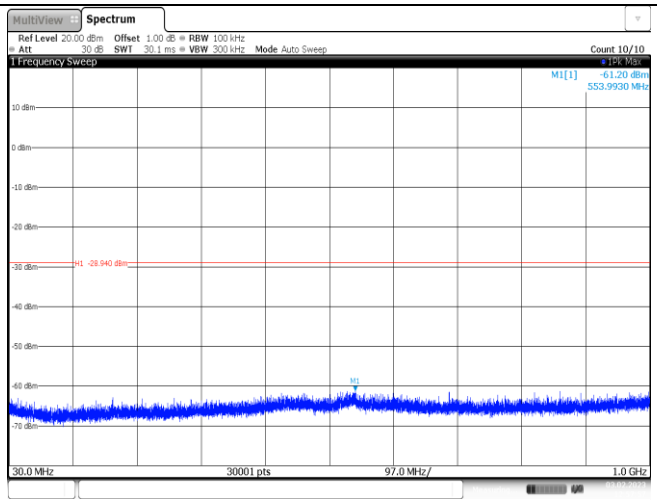
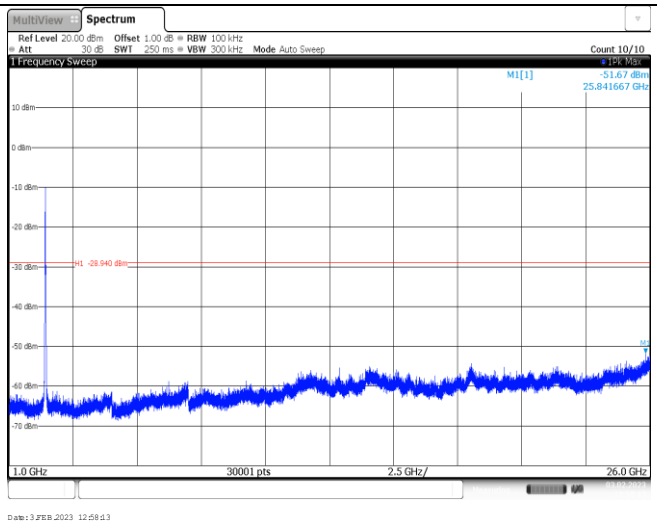
Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

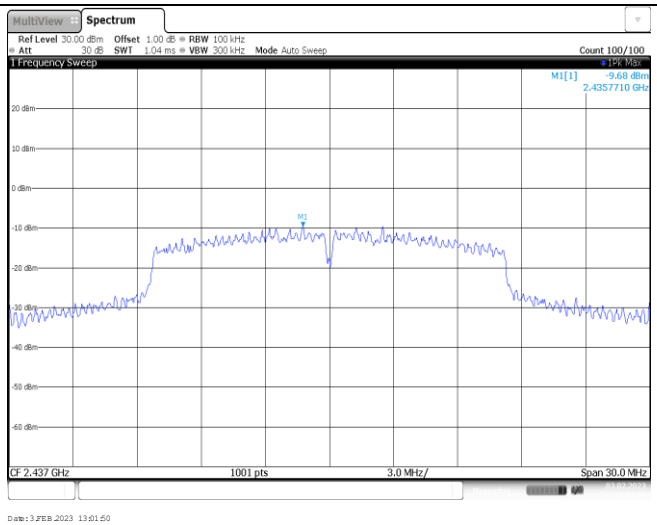
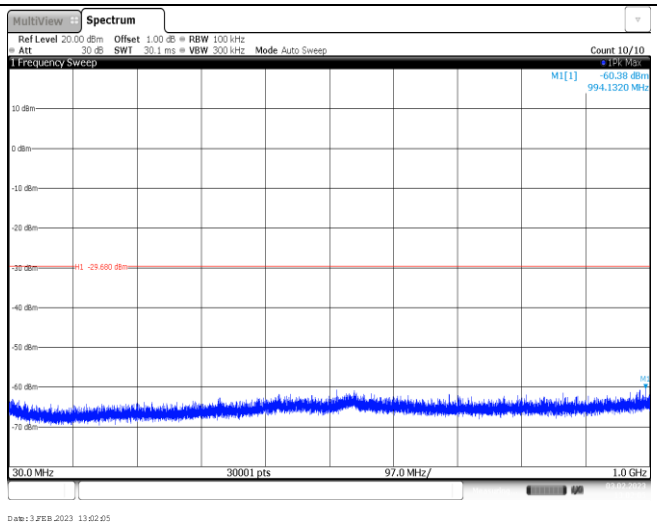
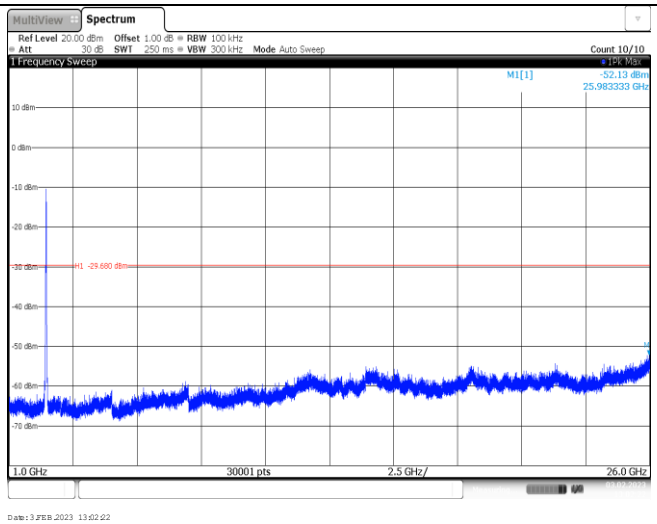
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

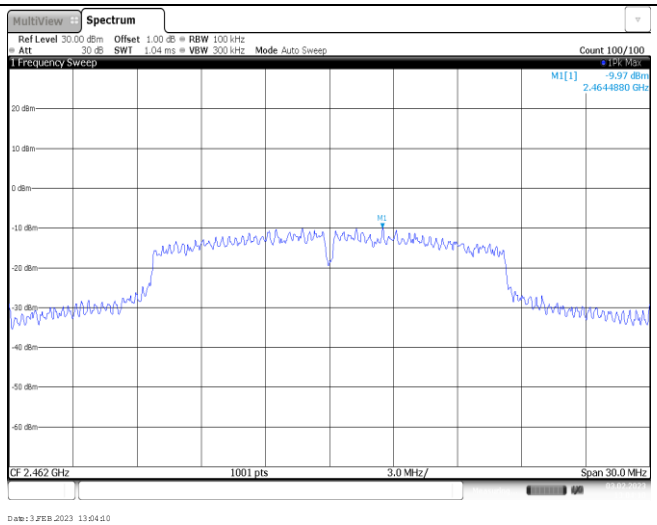
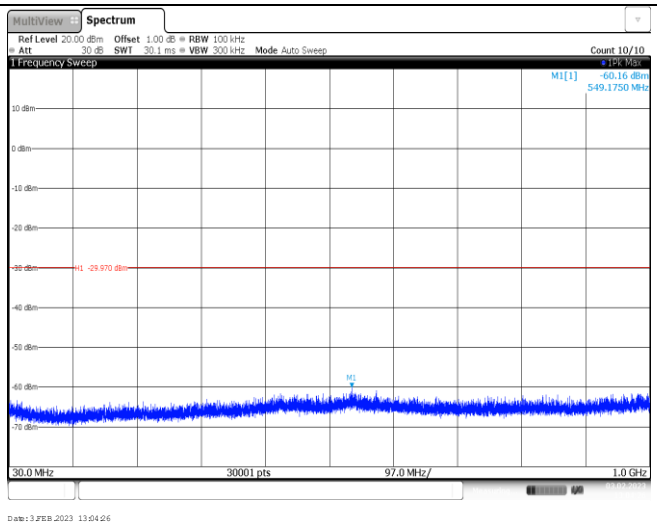
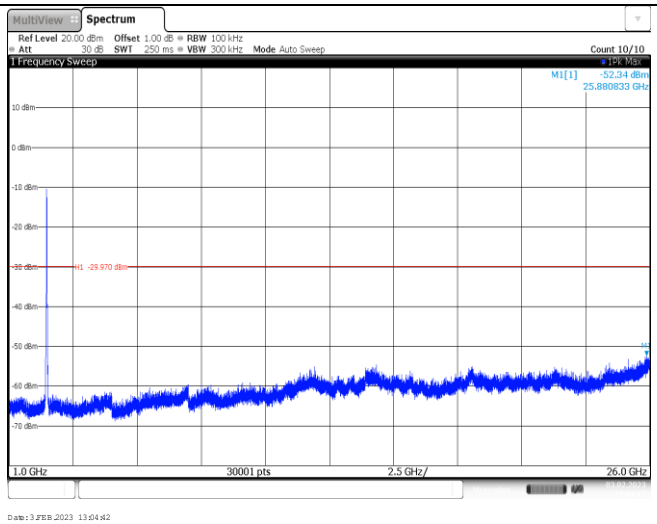
Test Item:	Spurious Emissions	Type:	802.11 b
CH01 Reference level	
CH01 30MHz~1000MHz	
CH01 1GHz~26GHz	

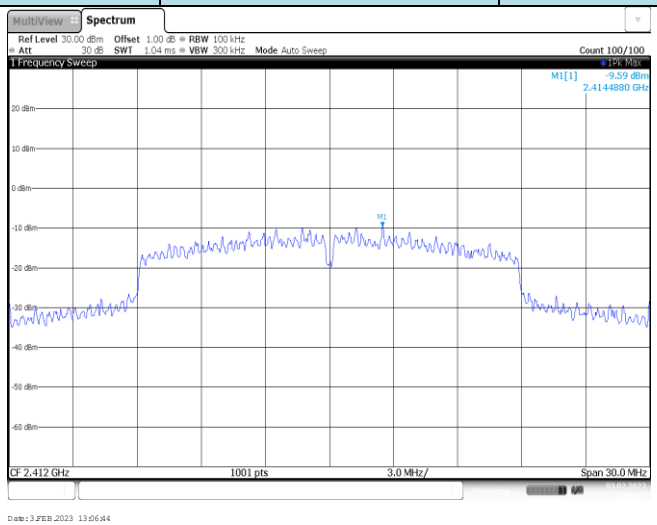
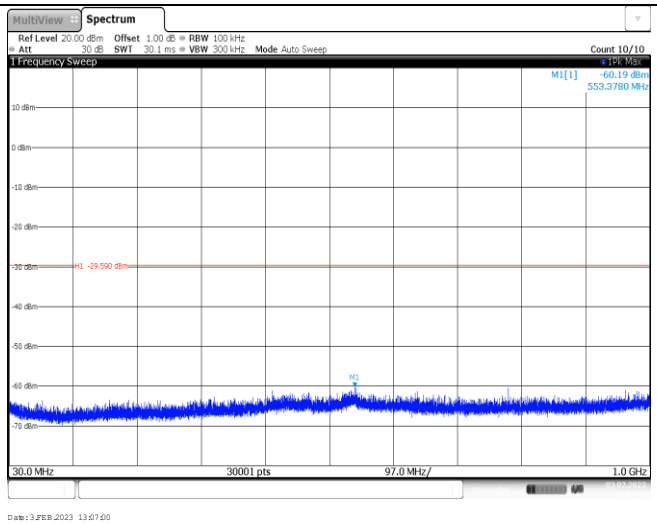
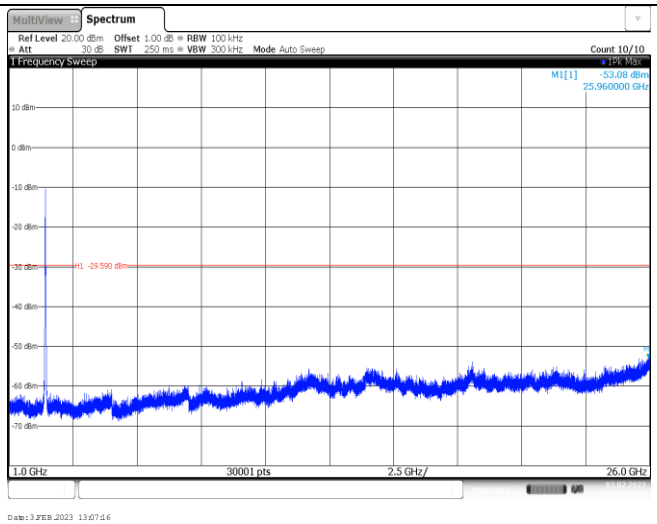
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

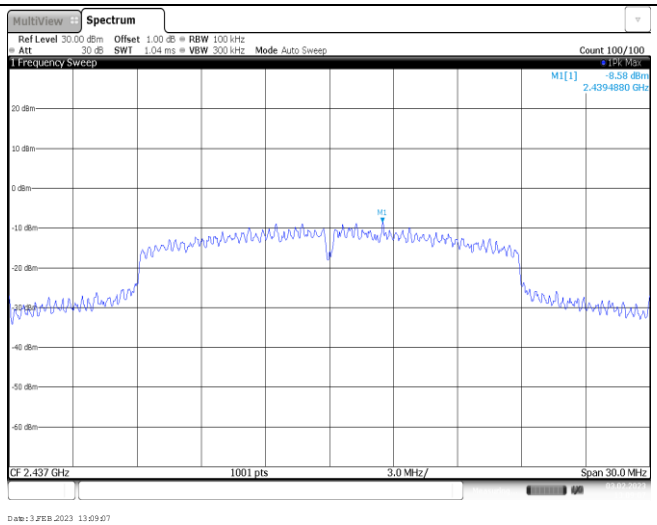
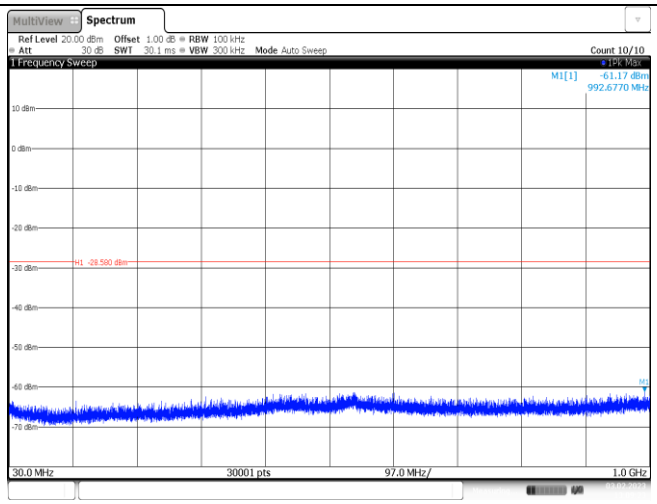
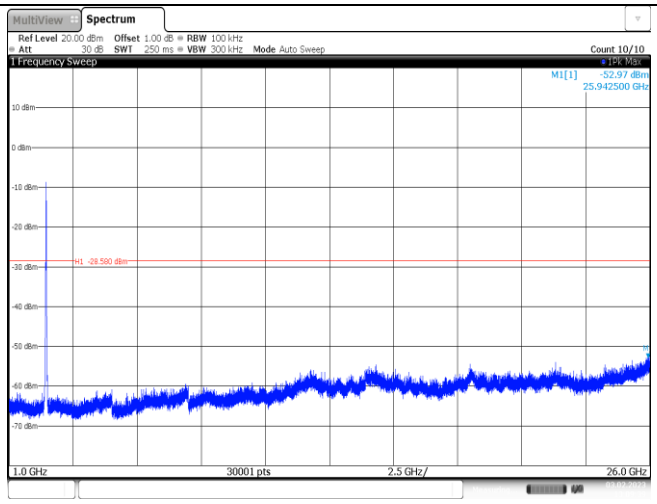
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

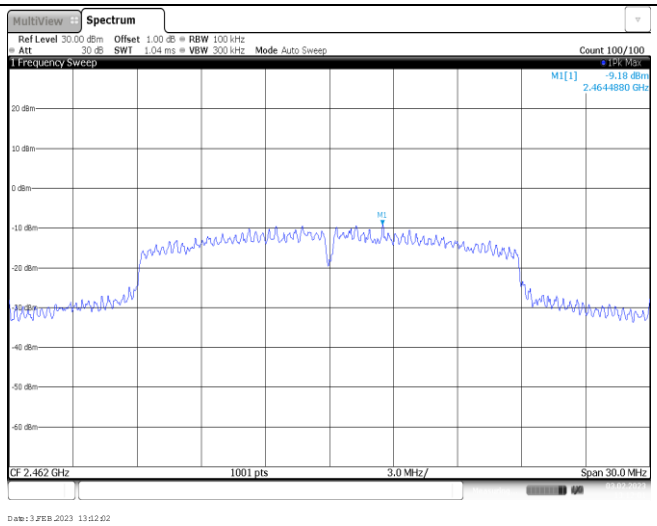
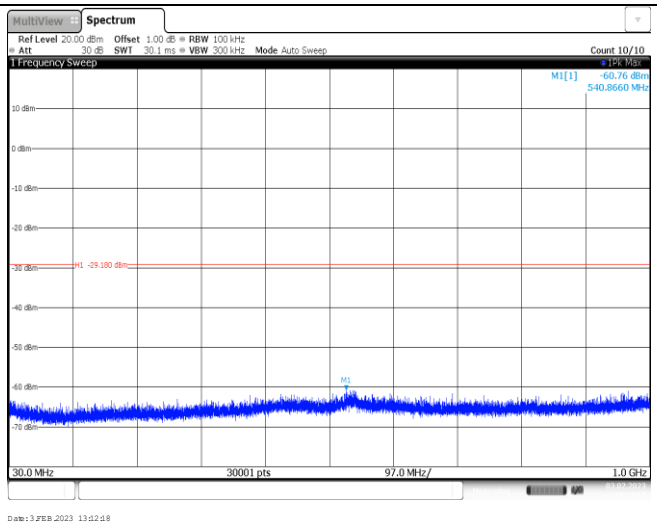
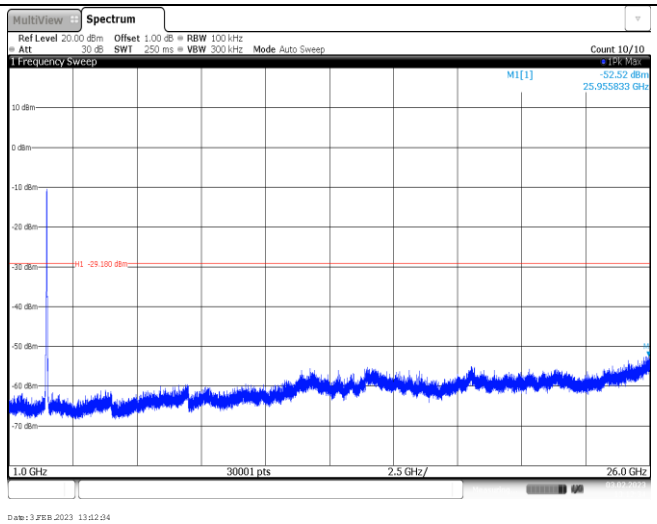
Test Item:	Spurious Emissions	Type:	802.11 g
CH01 Reference level	
CH01 30MHz~1000MHz	
CH01 1GHz~26GHz	

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

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

Test Item:	Spurious Emissions	Type:	802.11 n(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	

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