APPENDIX REPORT

Project No.	SHT2111009301EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21110093003	Model No.	T60
Start test date	2021-11-18	Finish date	2021-11-19
Temperature	24.6℃	Humidity	34%
Test Engineer	Weiyang Xiang	Auditor	Xiaodong Zhao

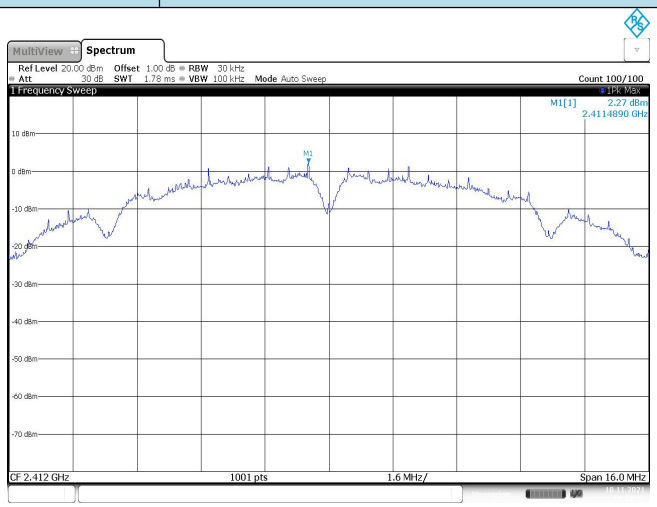
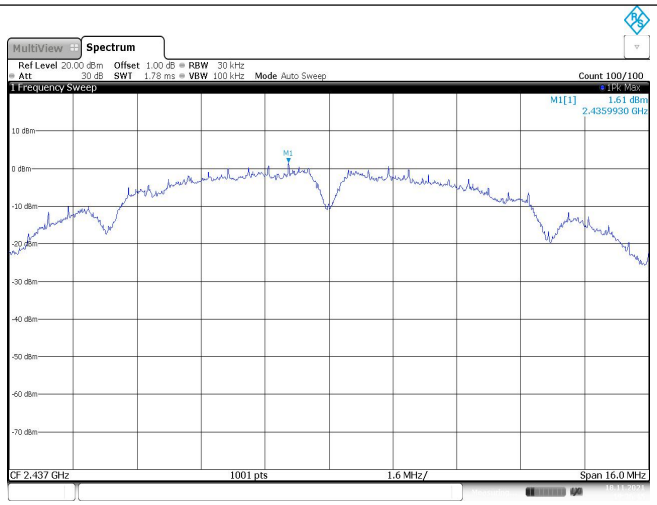
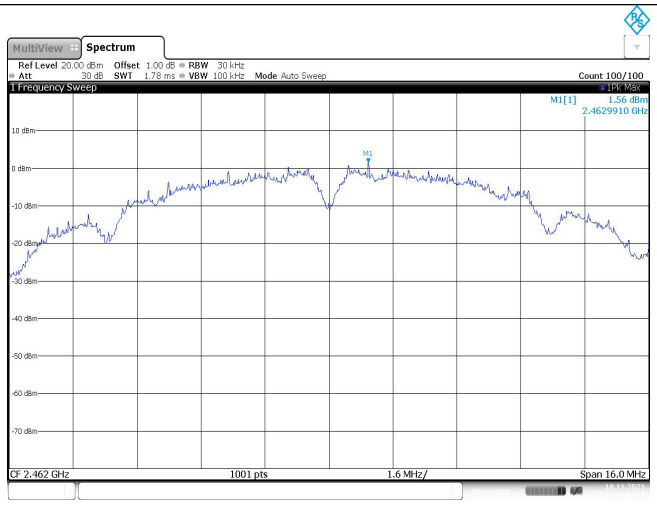
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

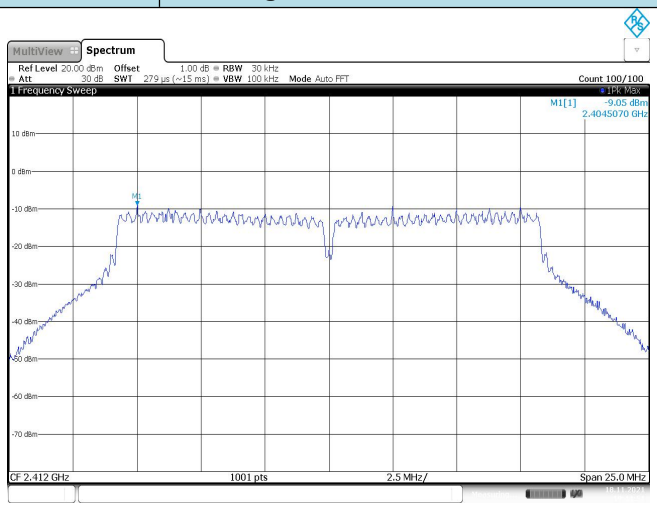
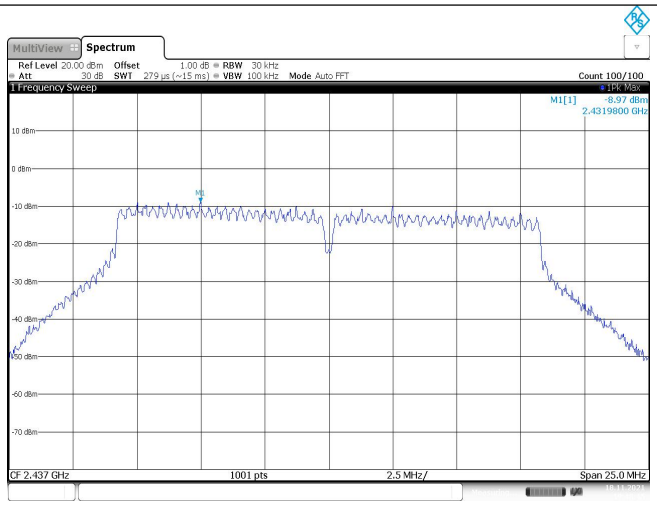
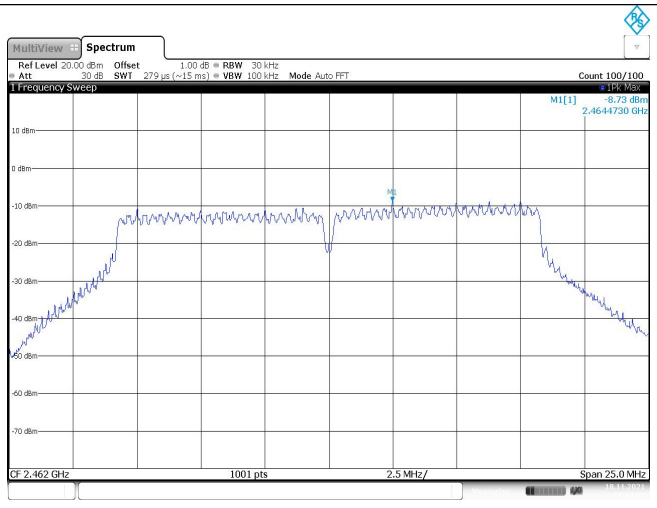
Appendix A：Conducted Peak Output Power

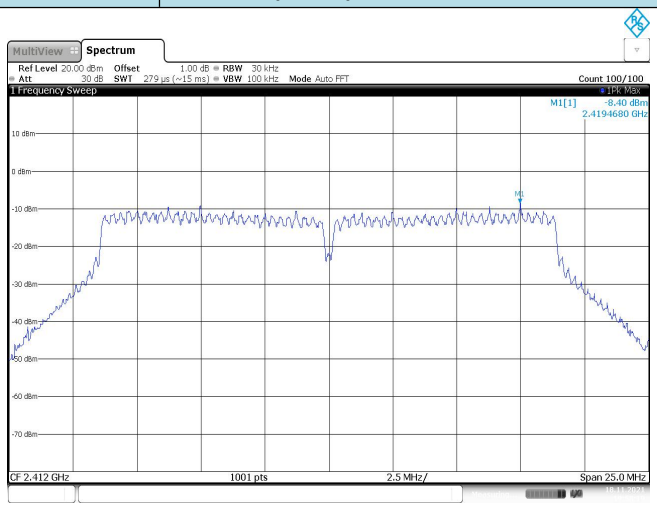
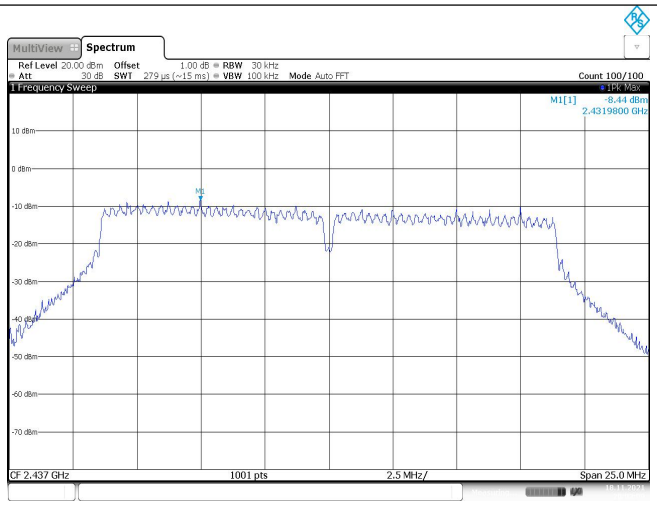
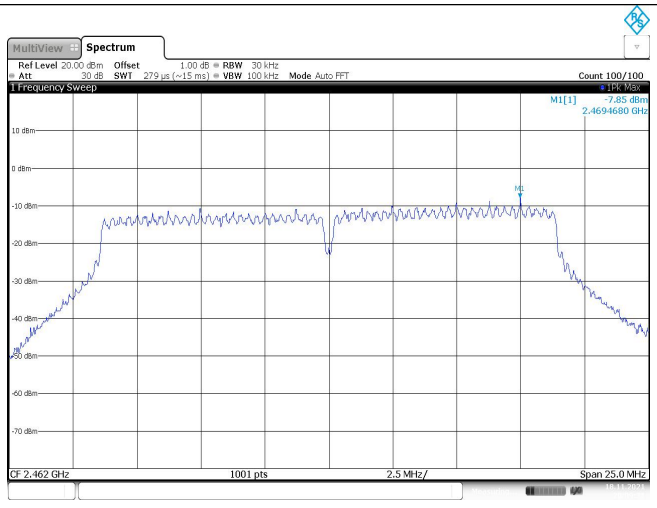
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	14.92	12.48	≤ 30.00	Pass
	06	15.40	12.97		
	11	15.17	12.77		
802.11g	01	15.06	13.09	≤ 30.00	Pass
	06	15.56	13.56		
	11	14.97	12.96		
802.11n (HT20)	01	15.23	13.10	≤ 30.00	Pass
	06	15.50	13.66		
	11	14.99	13.06		
802.11n(HT40)	03	14.72	12.55	≤ 30.00	Pass
	06	14.61	12.43		
	09	15.30	13.13		

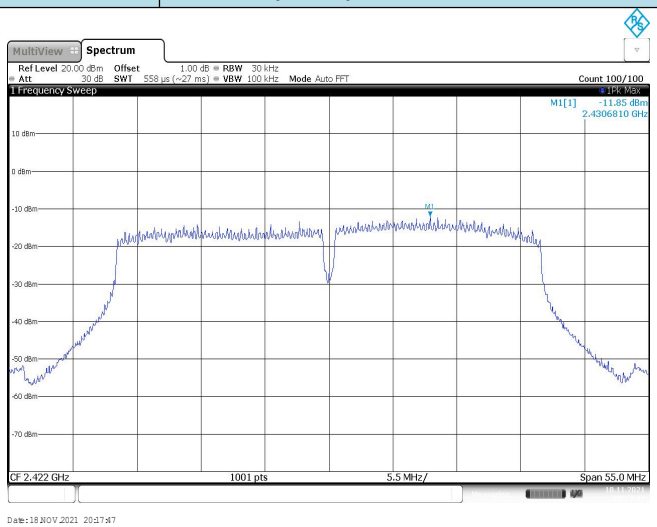
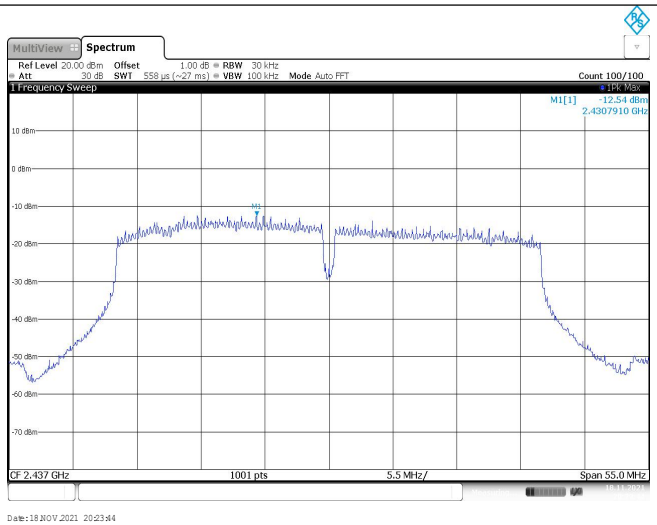
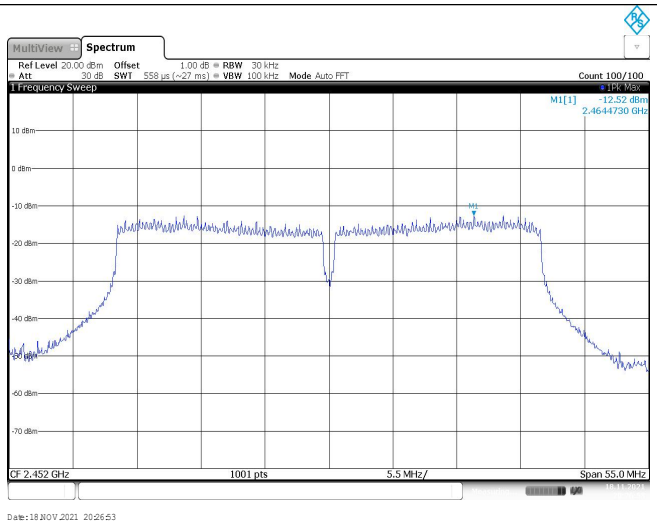
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	2.27	≤8.00	Pass
	06	1.61		
	11	1.56		
802.11g	01	-9.05	≤8.00	Pass
	06	-8.97		
	11	-8.73		
802.11n(HT20)	01	-8.40	≤8.00	Pass
	06	-8.44		
	11	-7.85		
802.11n(HT40)	03	-11.85	≤8.00	Pass
	06	-12.54		
	09	-12.52		

Type:	802.11 b
CH01	
CH06	
CH11	

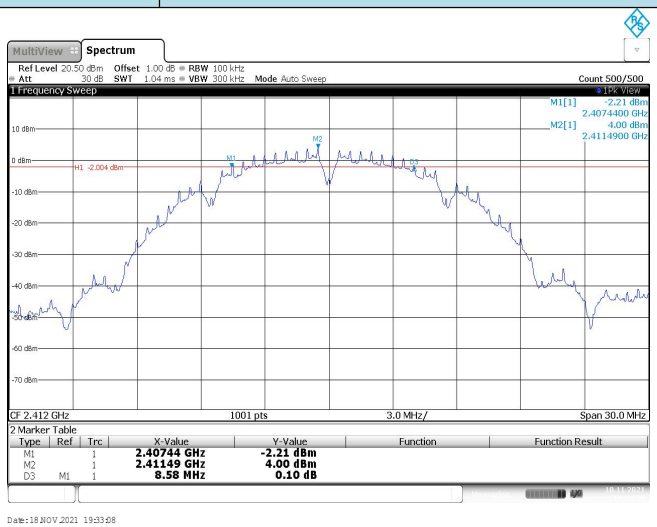
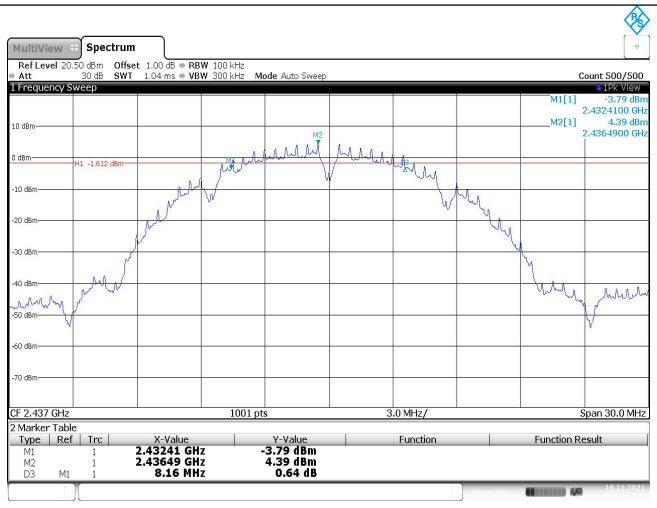
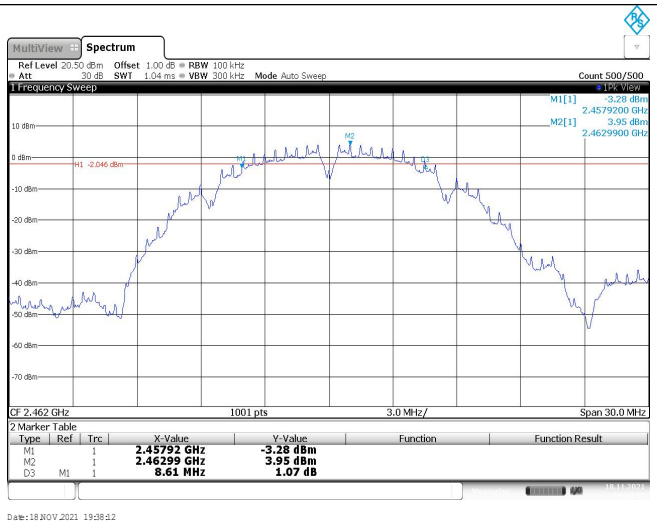
Type:	802.11 g
CH01	
CH06	
CH11	

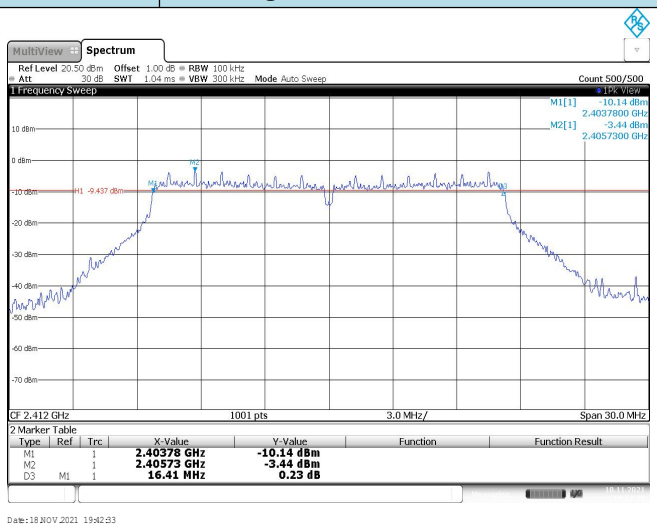
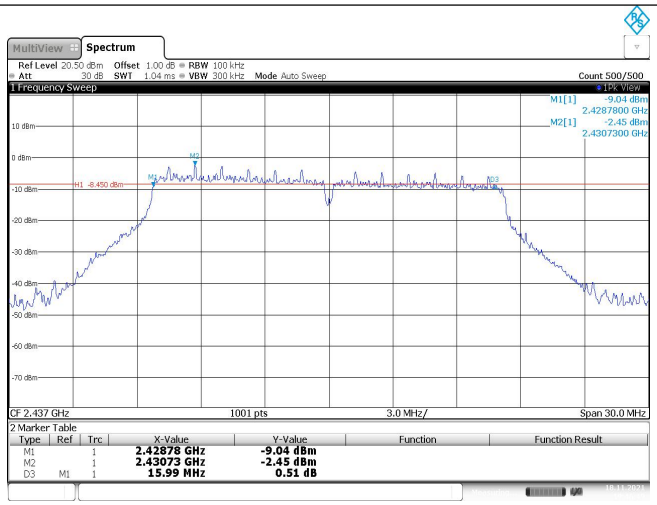
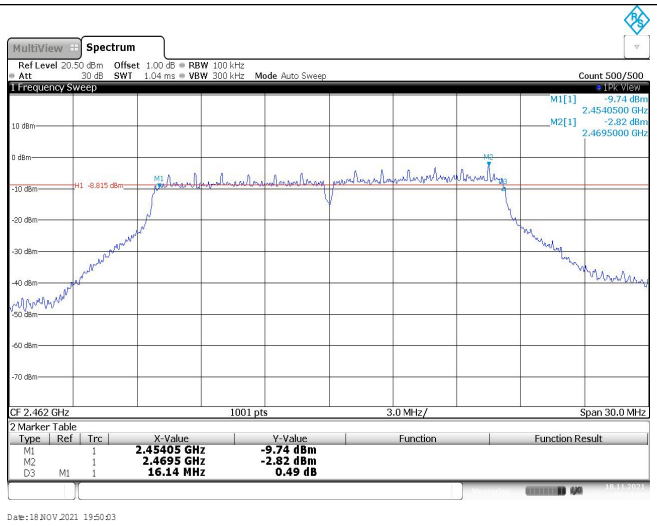
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

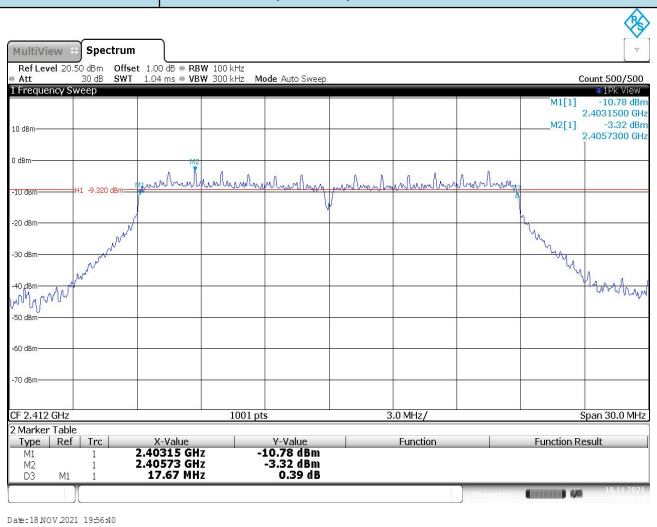
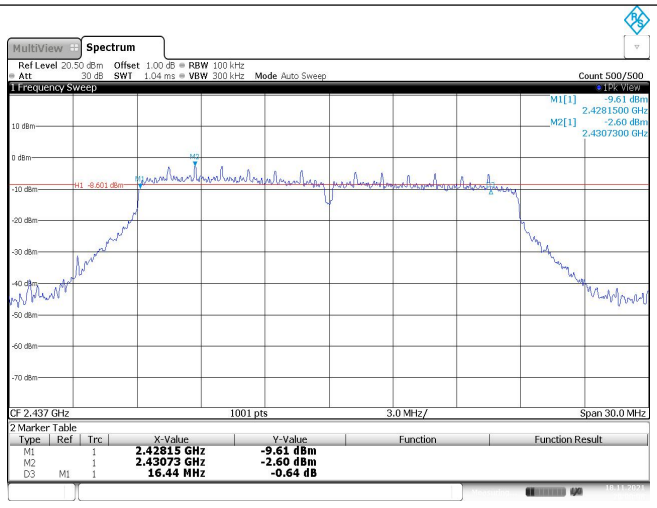
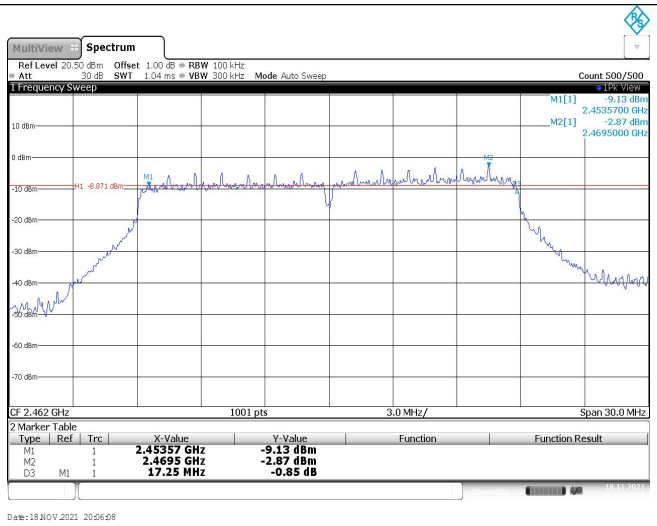
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

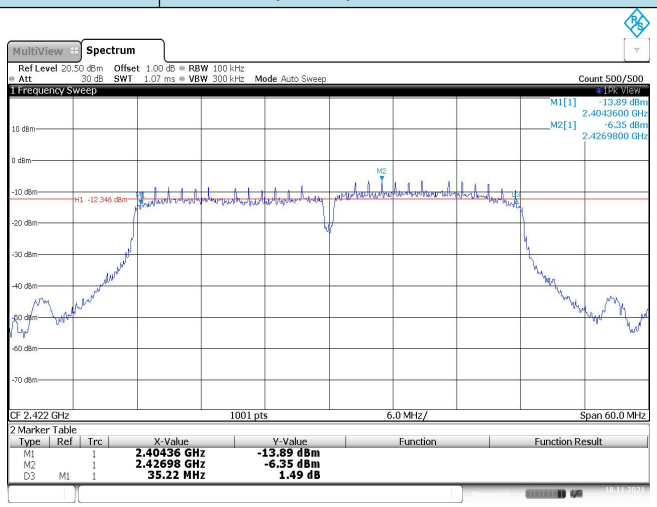
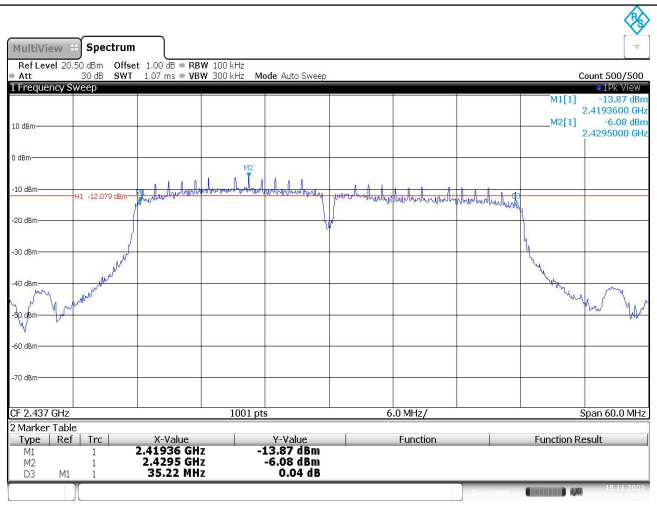
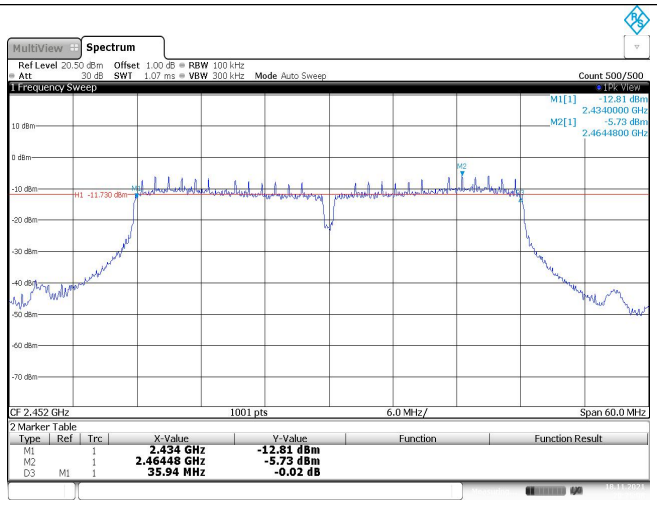
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.58	≥0.5	Pass
	06	8.16		
	11	8.61		
802.11g	01	16.41	≥0.5	Pass
	06	15.99		
	11	16.14		
802.11n(HT20)	01	17.67	≥0.5	Pass
	06	16.44		
	11	17.25		
802.11n(HT40)	03	35.22	≥0.5	Pass
	06	35.22		
	09	35.94		

Type:	802.11 b
CH01	
CH06	
CH11	

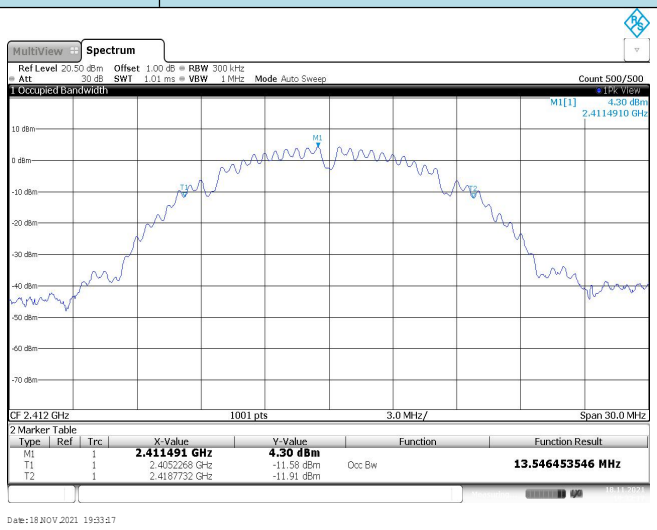
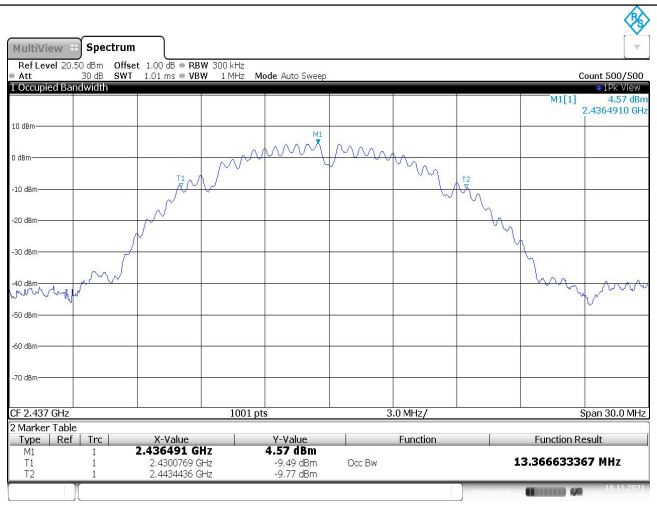
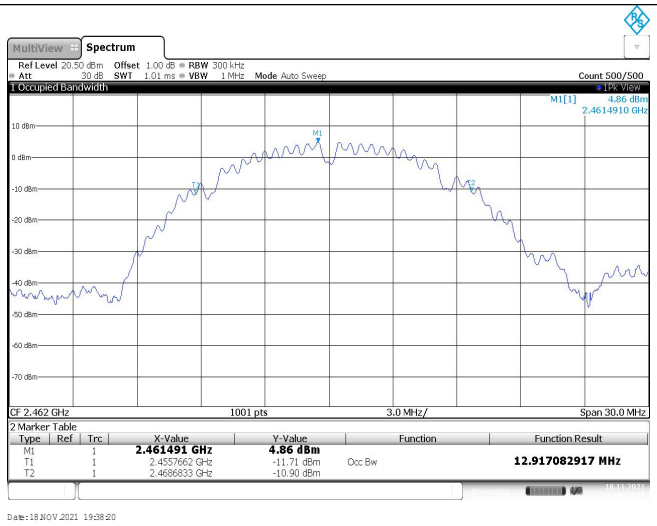
Type:	802.11 g
CH01	
CH06	
CH11	

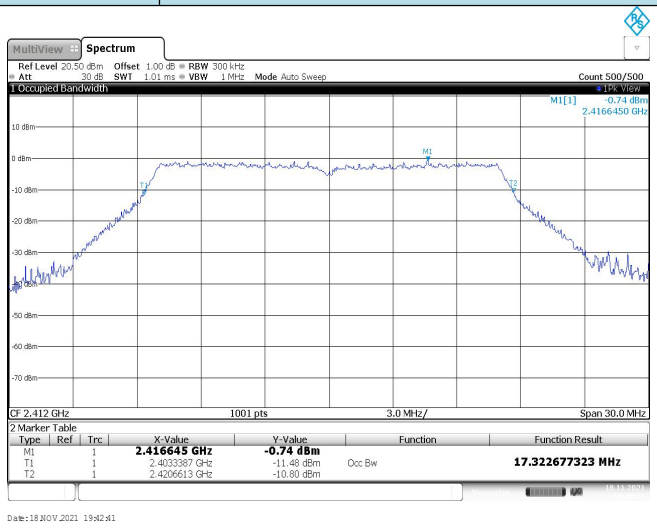
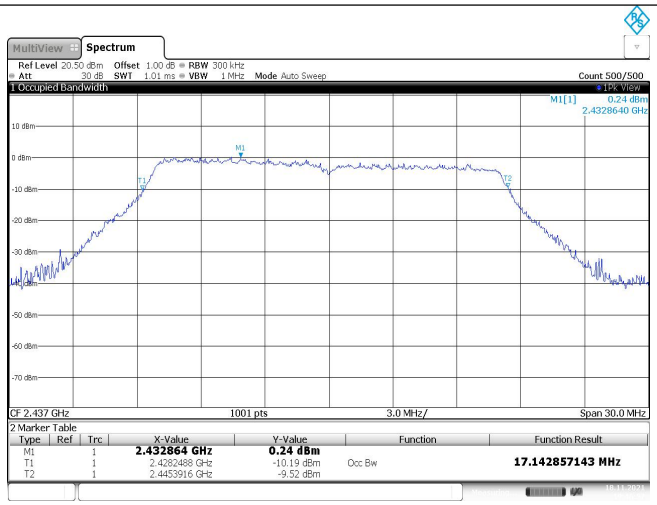
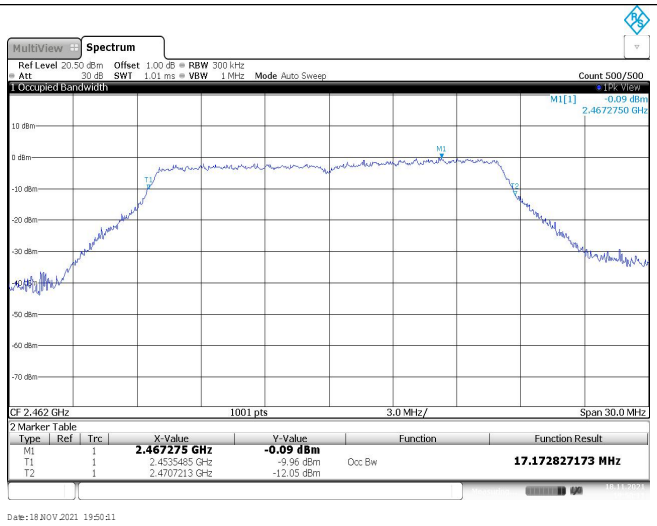
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

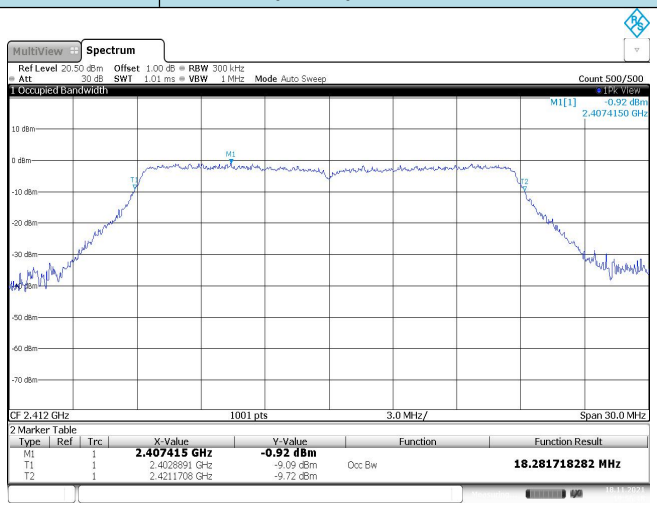
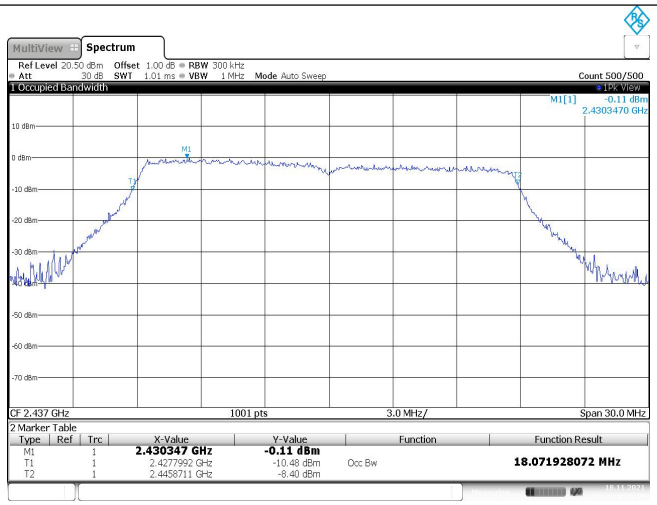
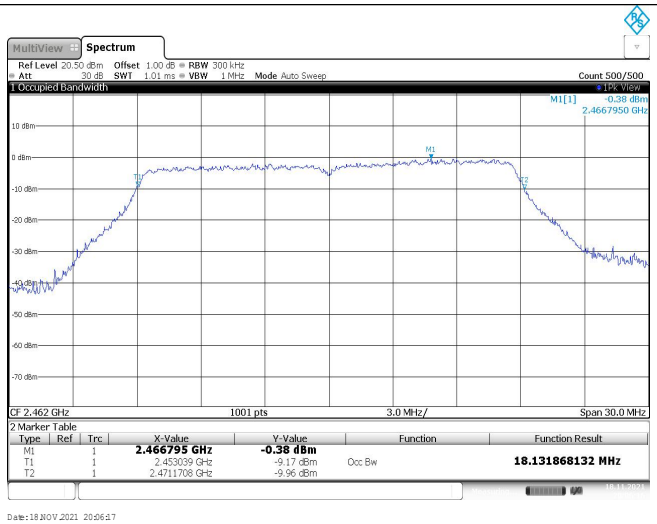
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

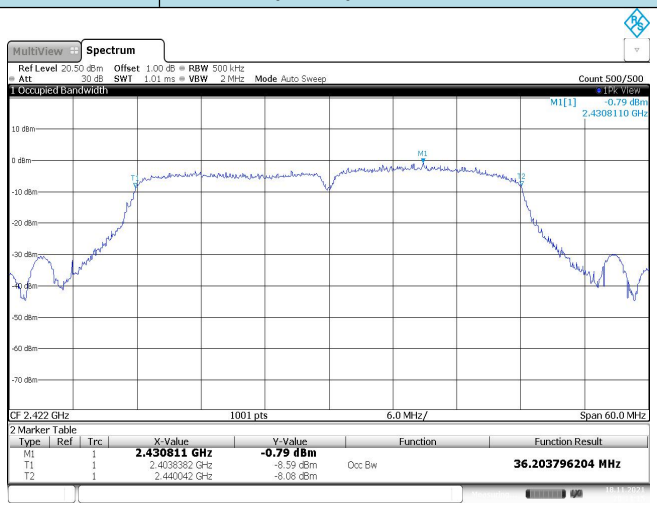
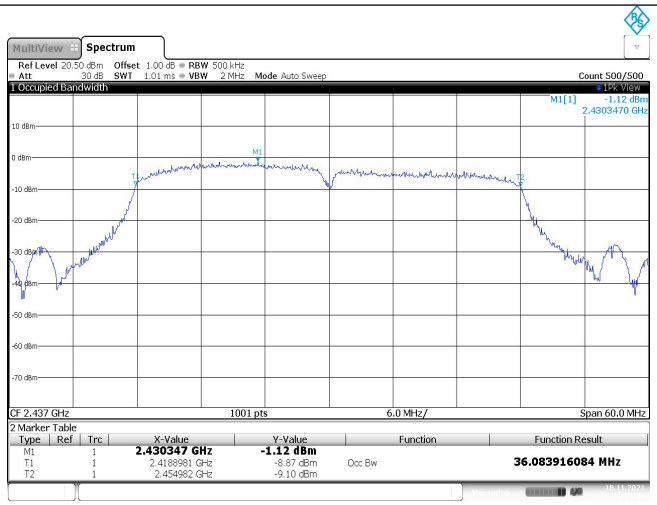
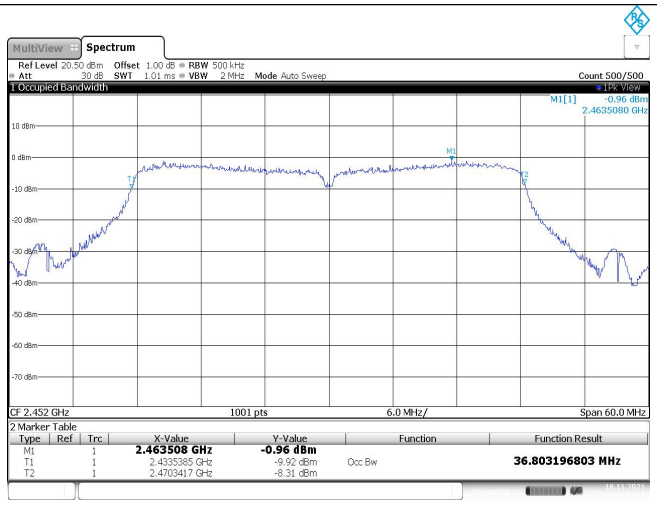
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	13.55	-	Pass
	06	13.37		
	11	12.92		
802.11g	01	17.32	-	Pass
	06	17.14		
	11	17.17		
802.11n(HT20)	01	18.28	-	Pass
	06	18.07		
	11	18.13		
802.11n(HT40)	03	36.20	-	Pass
	06	36.08		
	09	36.80		

Type:	802.11 b
CH01	
CH06	
CH11	

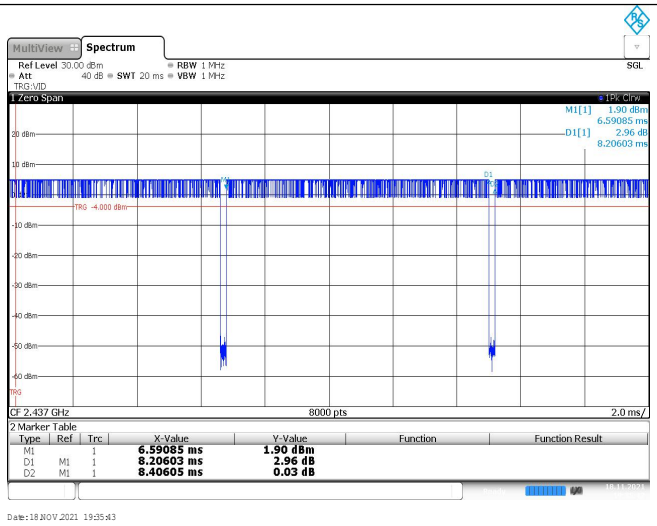
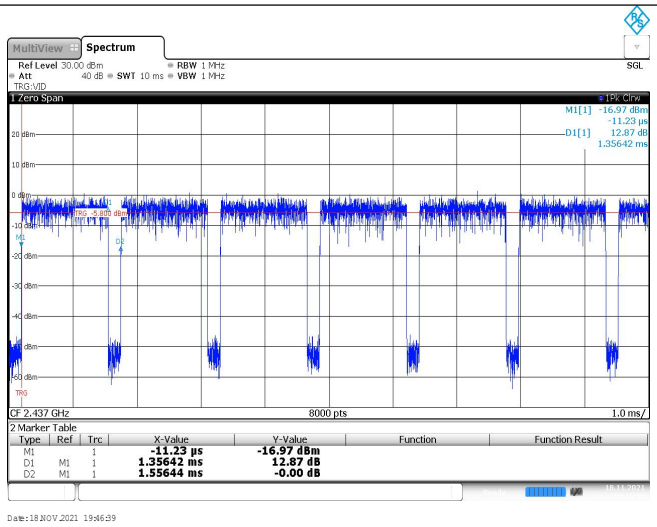
Type:	802.11 g
CH01	
CH06	
CH11	

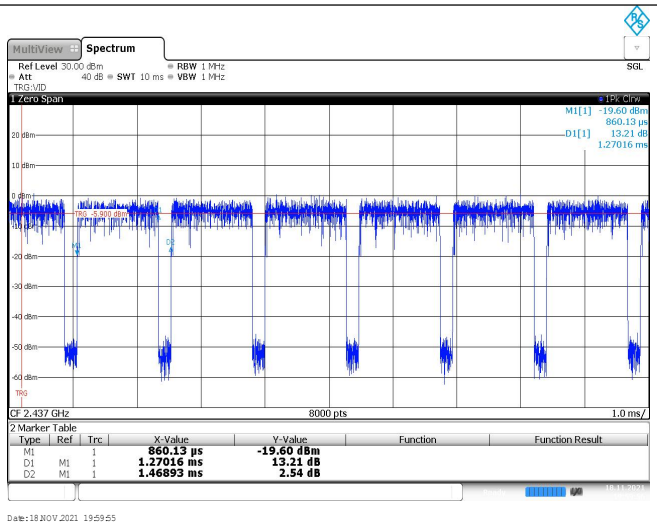
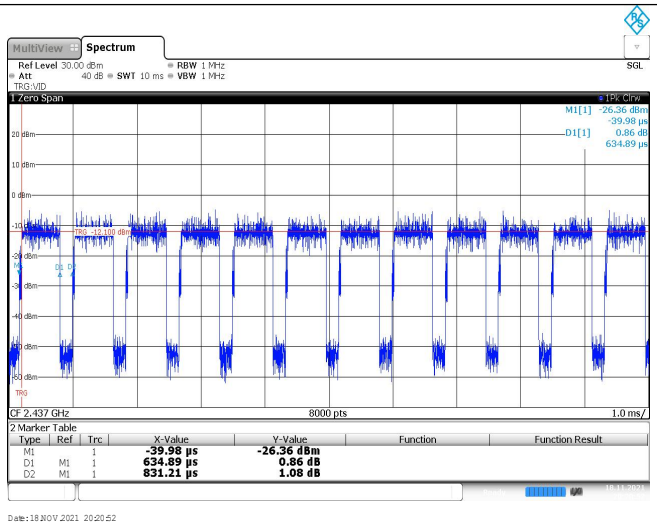
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Type:	802.11n(HT40)
CH03	
CH06	
CH09	

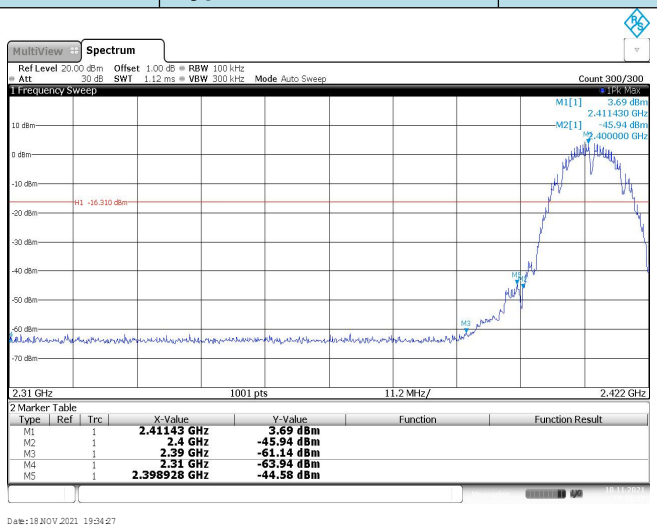
Appendix E：Duty Cycle

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	8.41	97.6%	0.1
11g	2437	1.36	1.56	87.2%	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	 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 M1[1] -19.60 dBm 860.13 µs D1[1] 13.21 dB 1.27016 ms CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 860.13 µs -19.60 dBm D1 M1 1 1.27016 ms 13.21 dB D2 M1 1 1.46893 ms 2.54 dB Date: 18.NOV.2021 19:59:55
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 M1[1] -26.36 dBm -39.98 µs D1[1] 0.86 dB 634.89 µs CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 -39.98 µs -26.36 dBm D1 M1 1 634.89 µs 0.86 dB D2 M1 1 831.21 µs 1.08 dB Date: 18.NOV.2021 20:20:52

Appendix F：Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11