APPENDIX REPORT

Project No.	SHT2210104803EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT22101048001	Model No.	FA2000(125KHz)
Start test date	2022-11-25	Finish date	2023-01-12
Temperature	25.6℃	Humidity	39%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhao

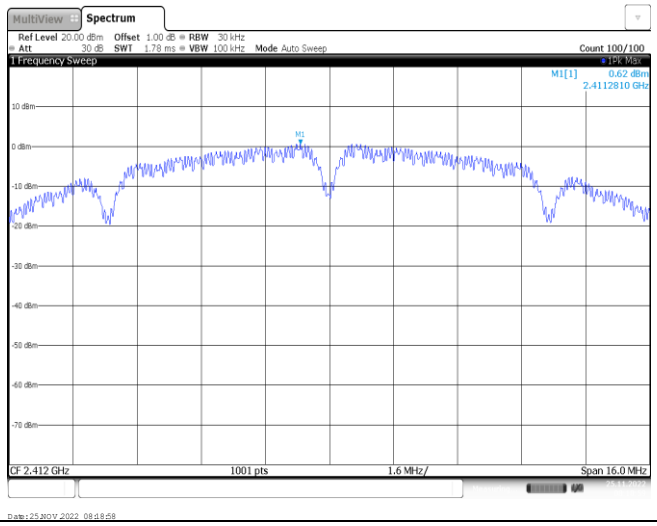
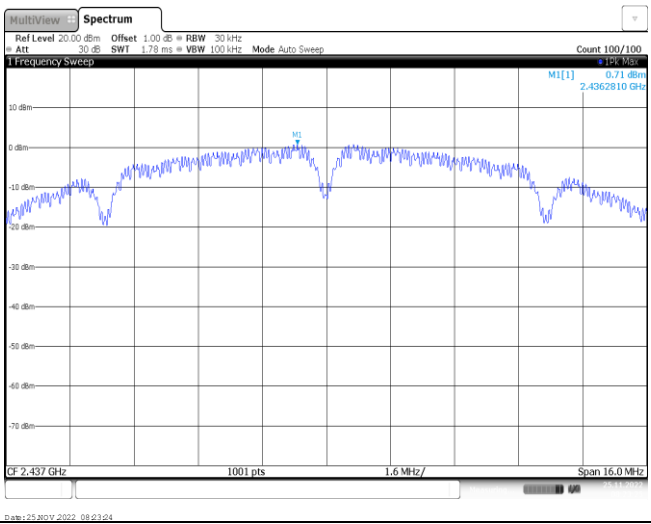
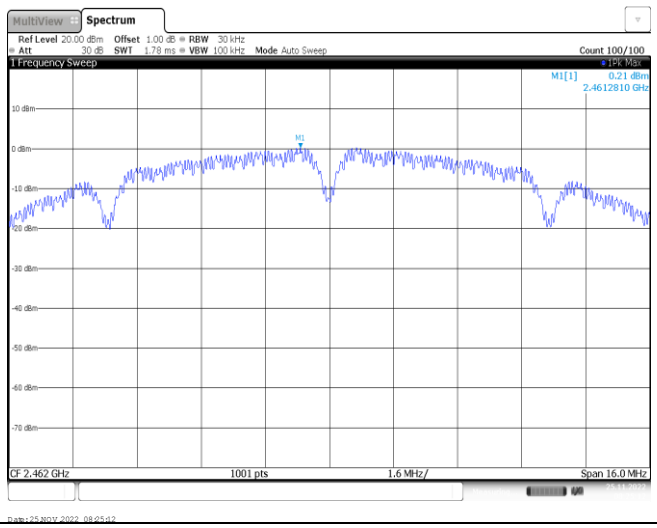
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

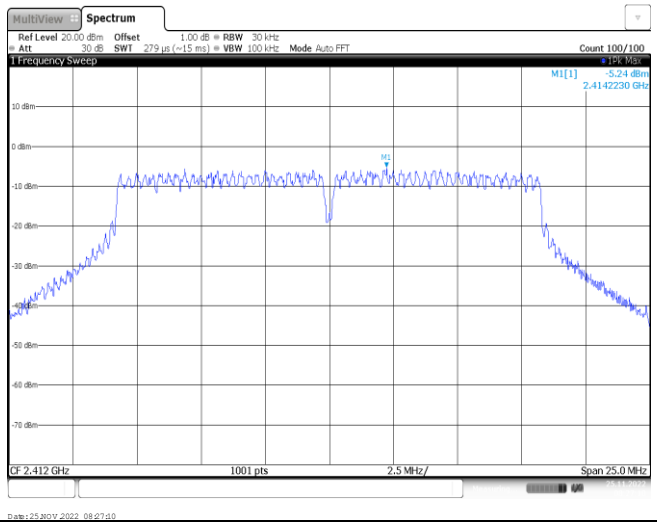
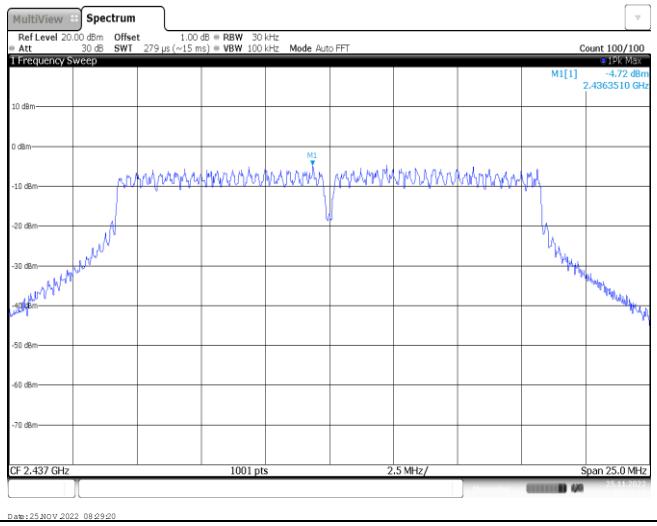
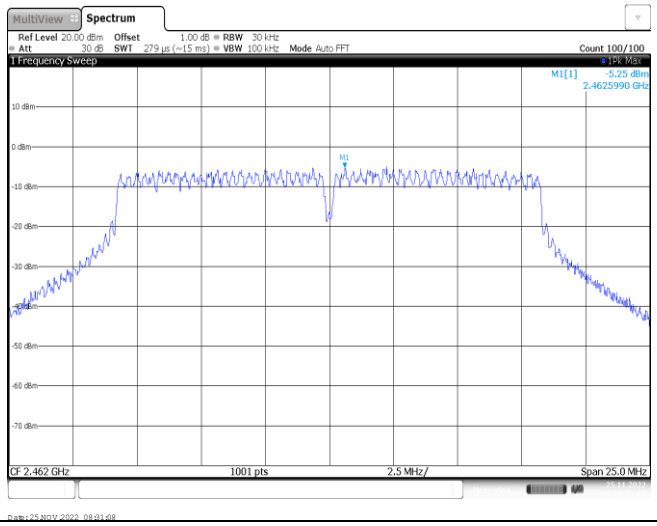
Appendix A: Conducted Peak Output Power

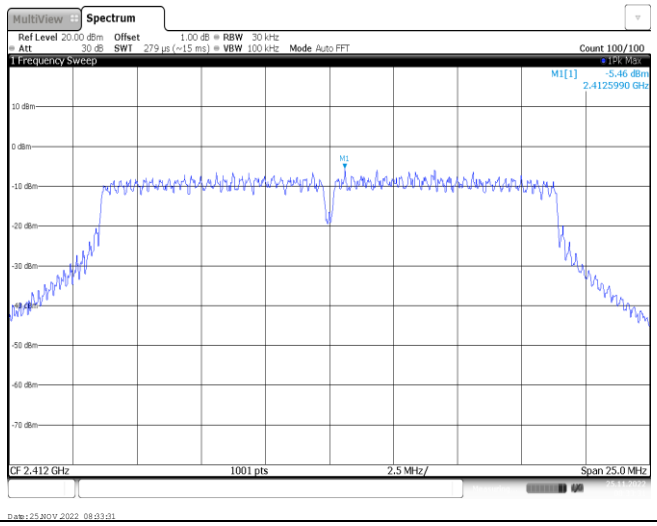
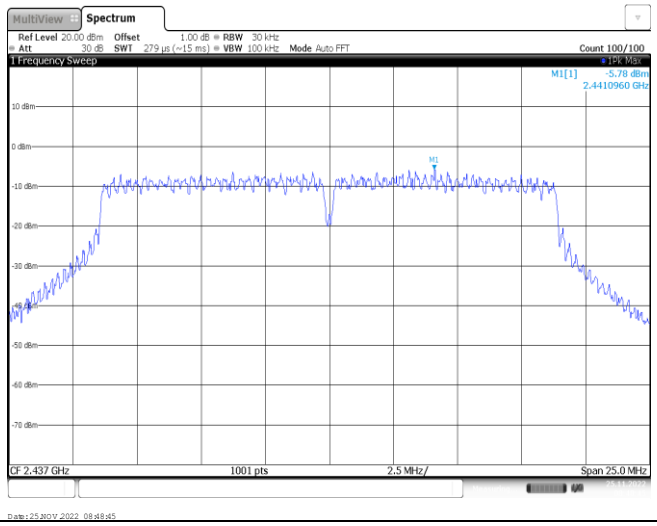
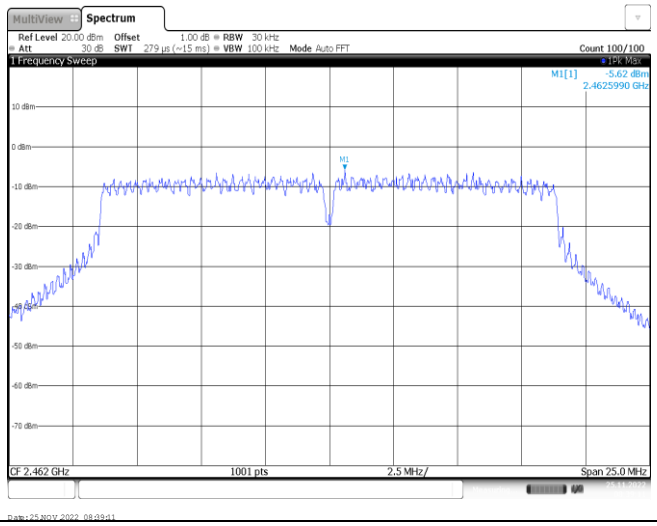
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	19.31	16.30	≤ 30.00	Pass
	06	19.02	16.54		
	11	18.77	16.25		
802.11g	01	20.15	17.08	≤ 30.00	Pass
	06	20.56	17.44		
	11	20.36	17.27		
802.11n (HT20)	01	19.34	16.22	≤ 30.00	Pass
	06	19.67	16.55		
	11	19.52	16.37		
802.11n(HT40)	03	19.64	16.54	≤ 30.00	Pass
	06	19.59	16.71		
	09	19.49	16.62		

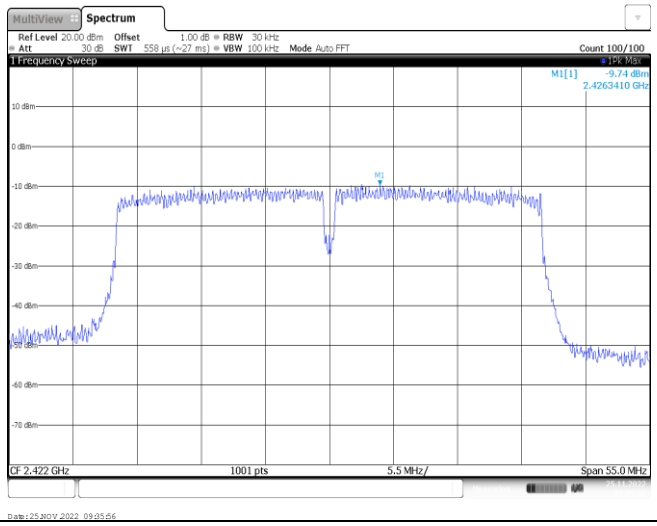
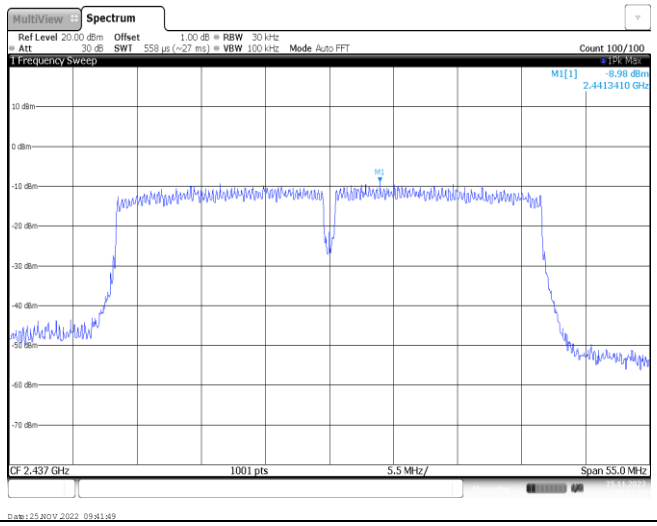
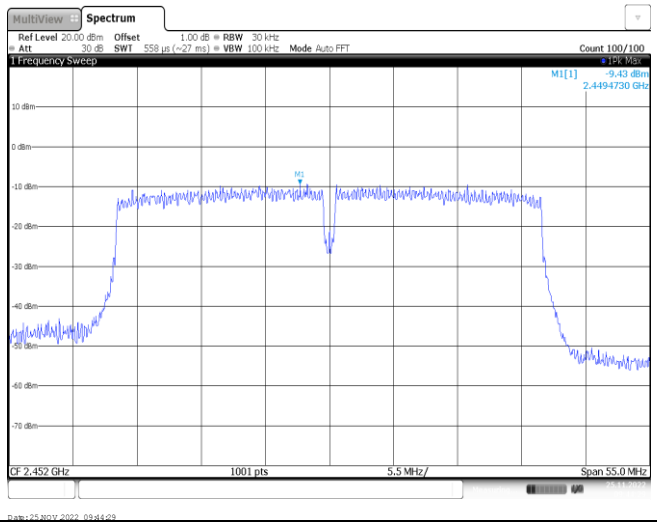
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	0.62	≤8.00	Pass
	06	0.71		
	11	0.21		
802.11g	01	-5.24	≤8.00	Pass
	06	-4.72		
	11	-5.25		
802.11n(HT20)	01	-5.46	≤8.00	Pass
	06	-5.78		
	11	-5.62		
802.11n(HT40)	03	-9.74	≤8.00	Pass
	06	-8.98		
	09	-9.43		

Type:	802.11 b
CH01	
CH06	
CH11	

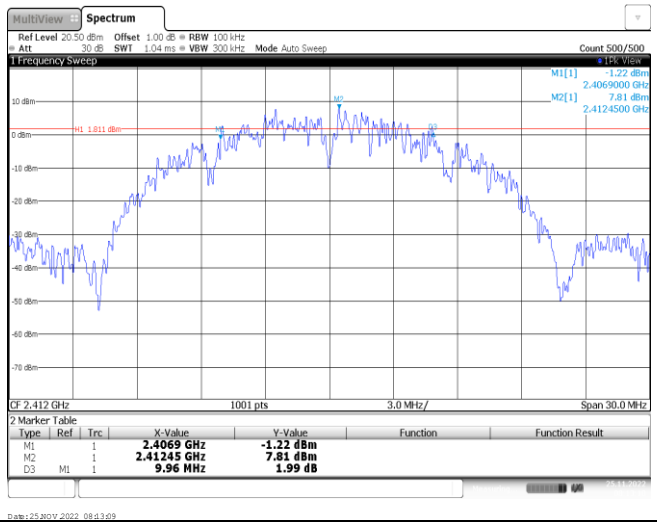
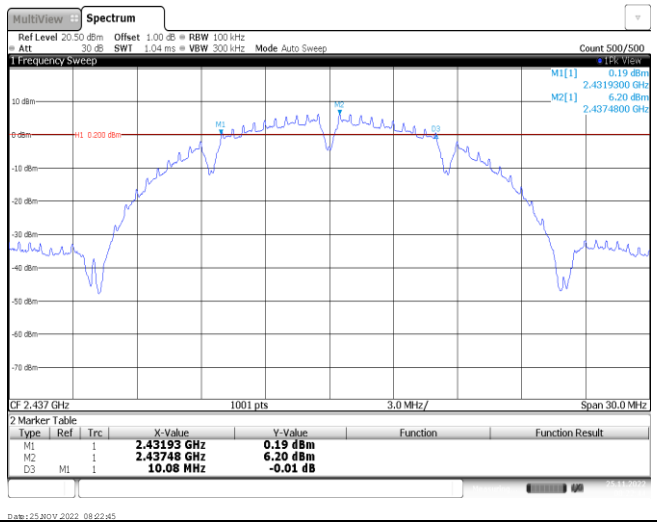
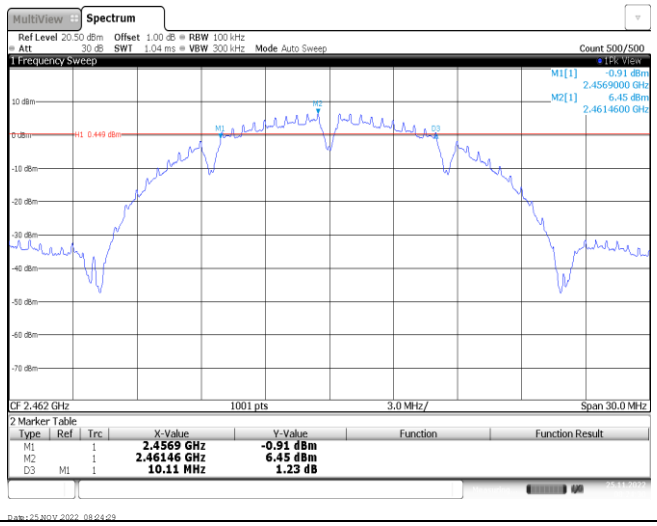
Type:	802.11 g
CH01	
CH06	
CH11	

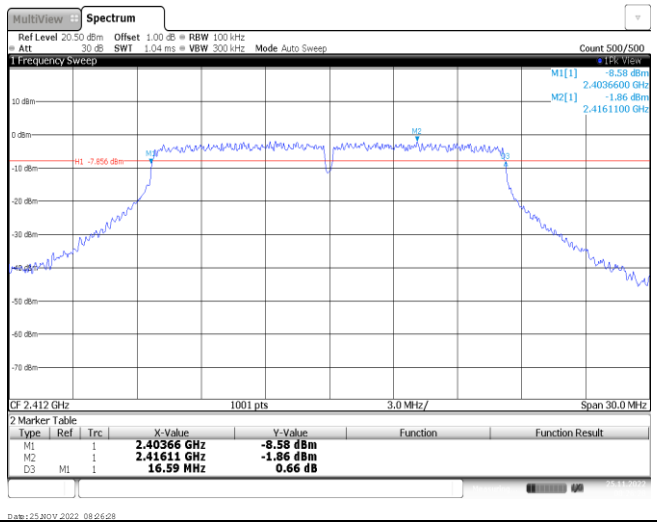
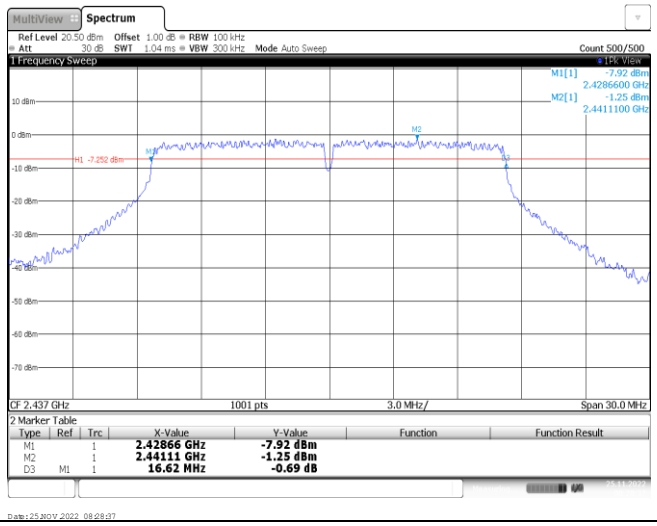
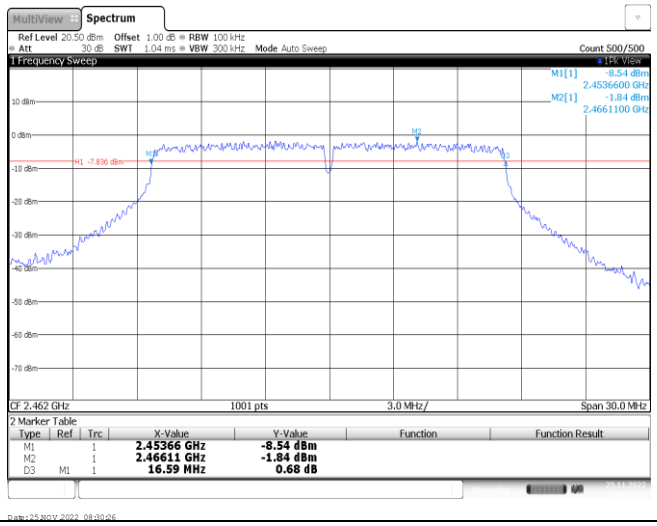
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

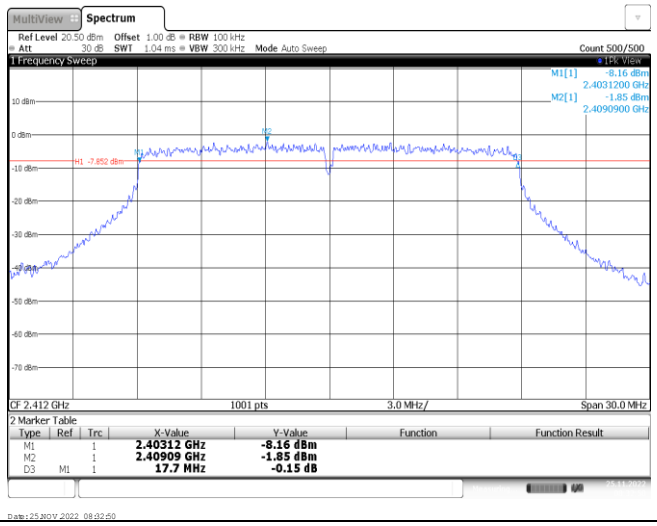
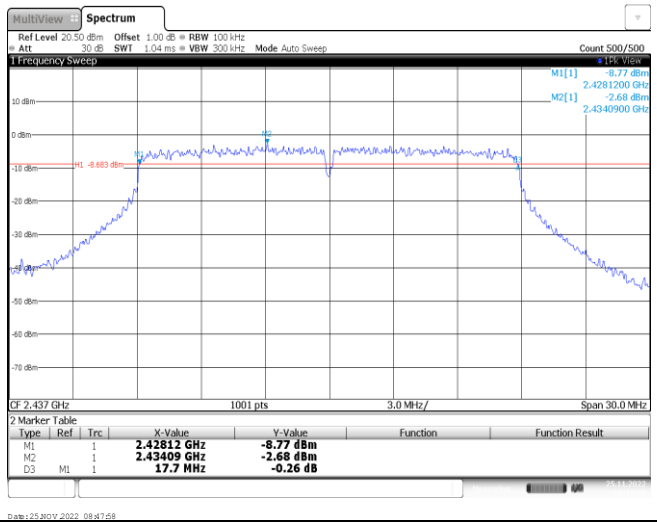
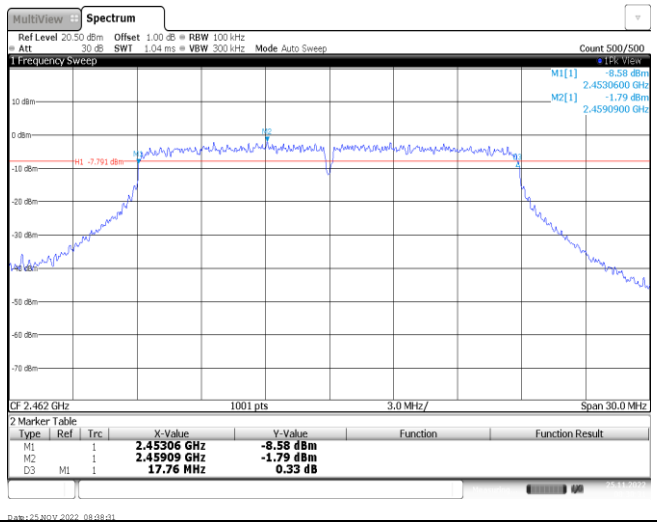
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

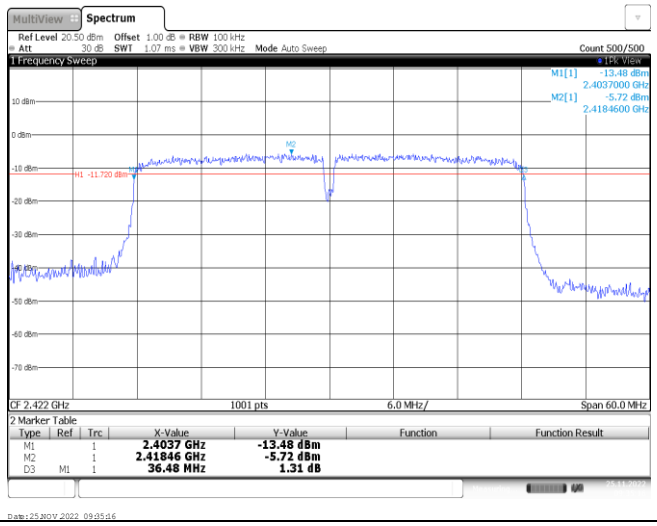
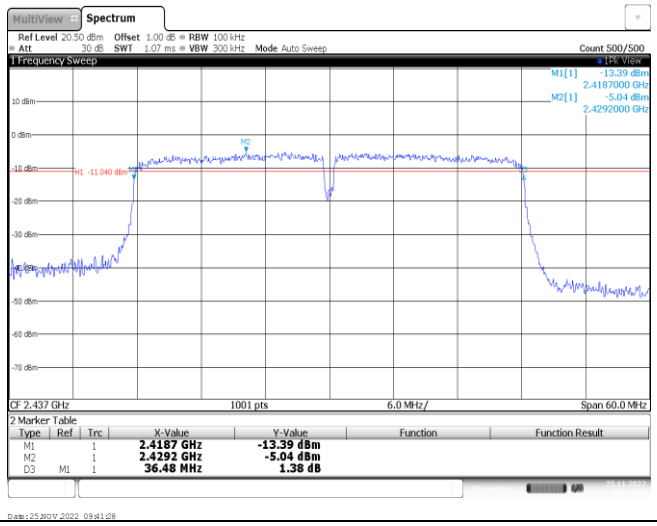
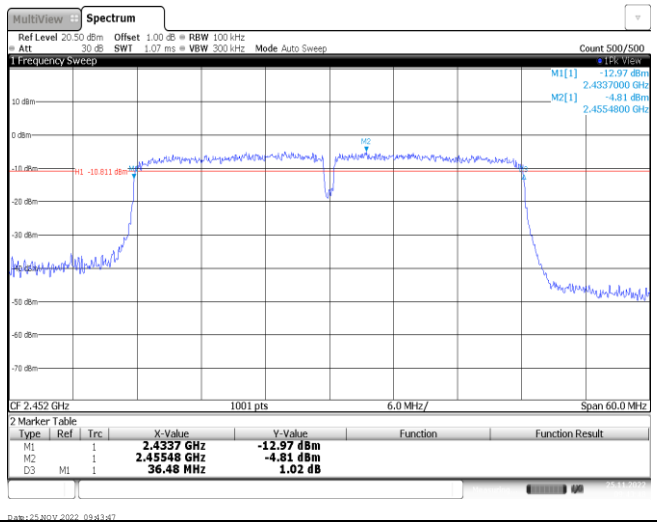
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.96	≥0.5	Pass
	06	10.08		
	11	10.11		
802.11g	01	16.59	≥0.5	Pass
	06	16.62		
	11	16.59		
802.11n(HT20)	01	17.70	≥0.5	Pass
	06	17.70		
	11	17.76		
802.11n(HT40)	03	36.48	≥0.5	Pass
	06	36.48		
	09	36.48		

Type:	802.11 b
CH01	
CH06	
CH11	

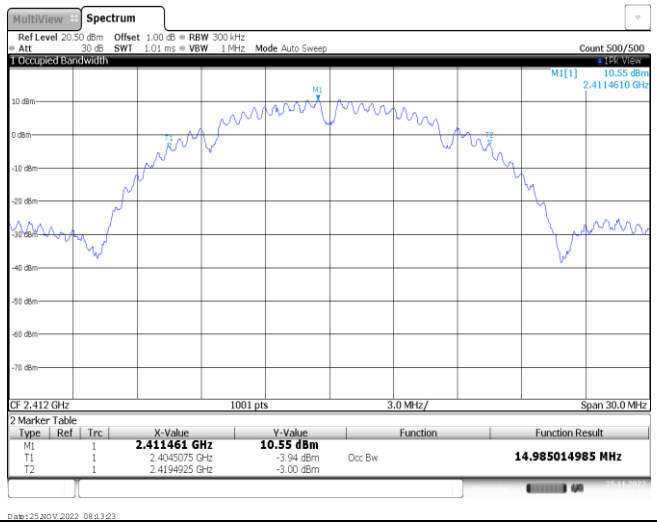
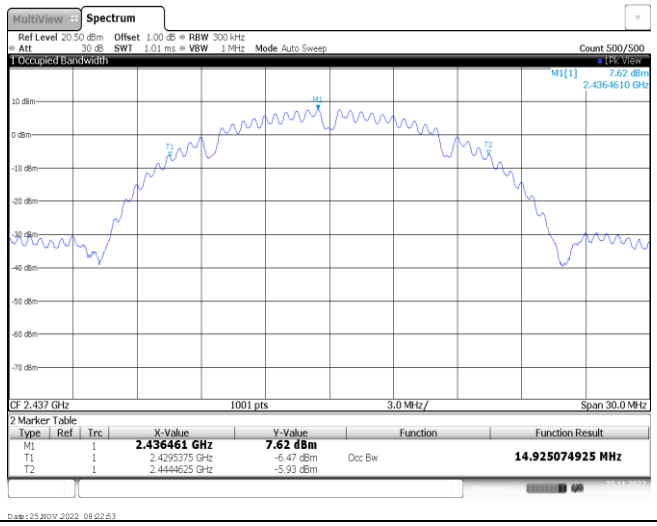
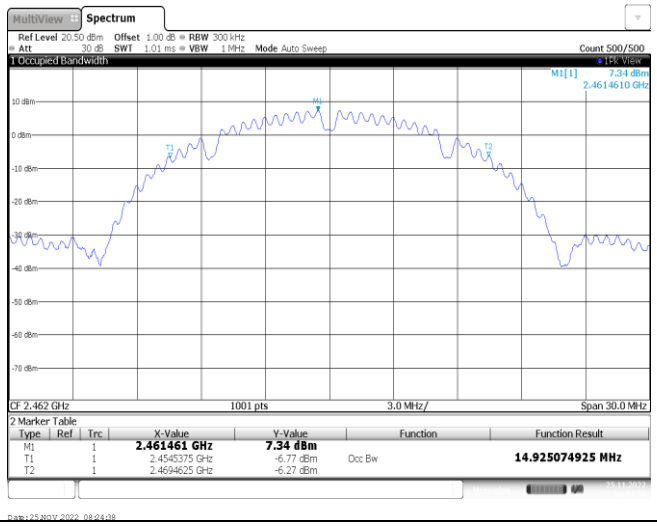
Type:	802.11 g
CH01	
CH06	
CH11	

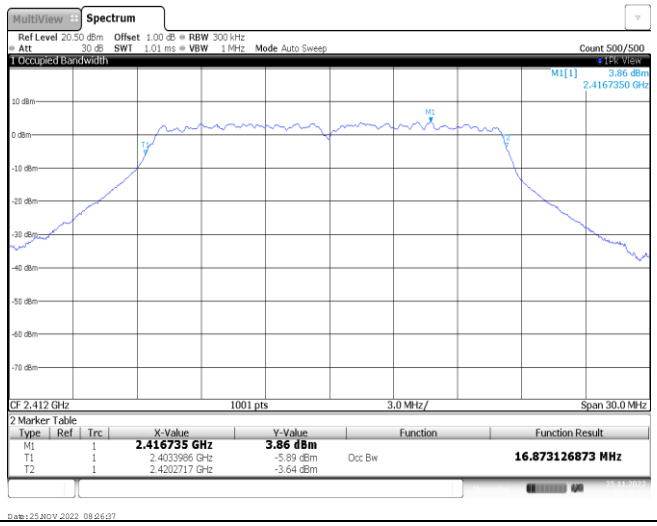
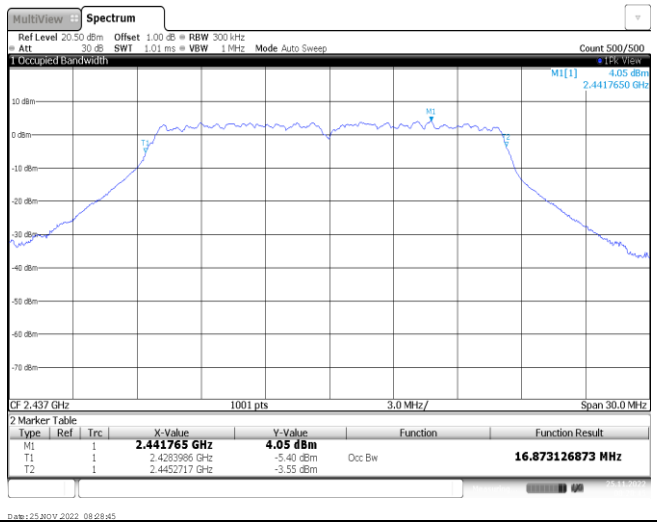
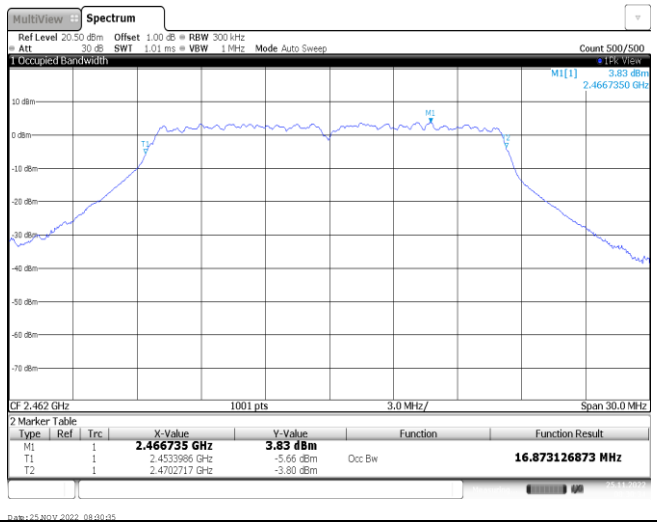
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

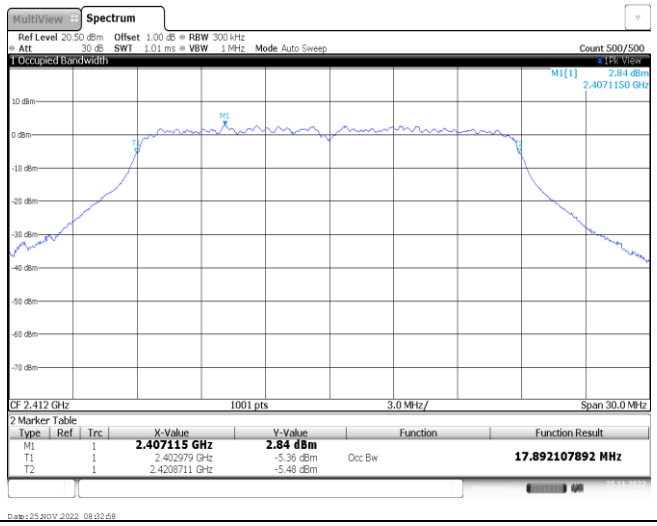
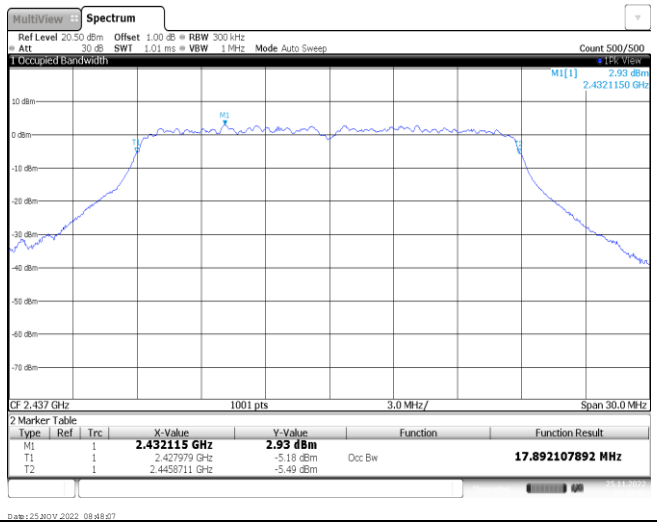
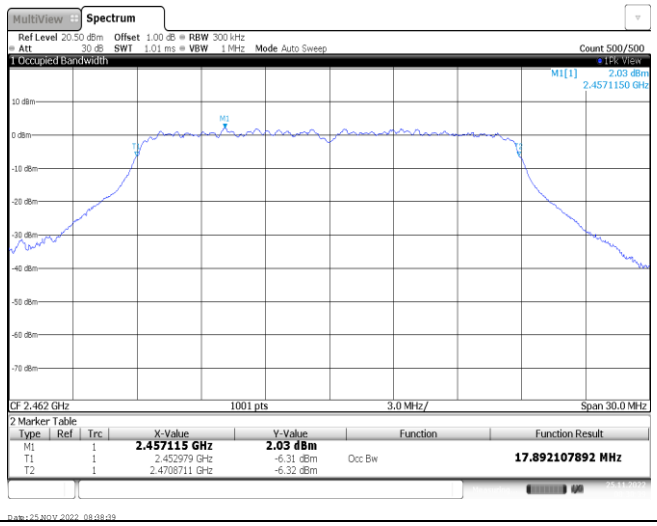
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

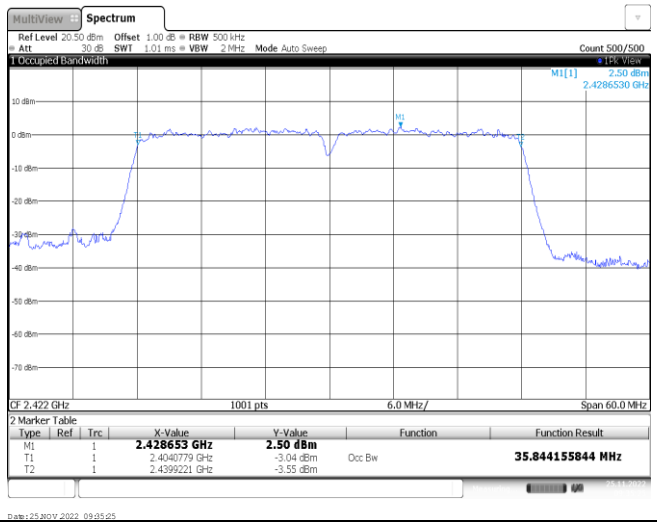
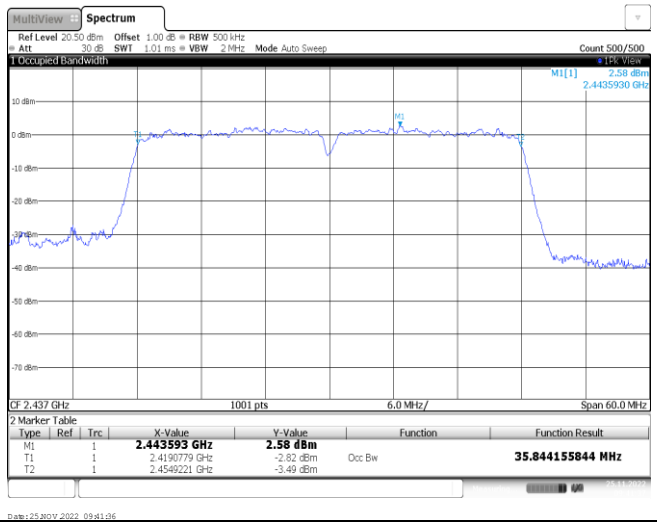
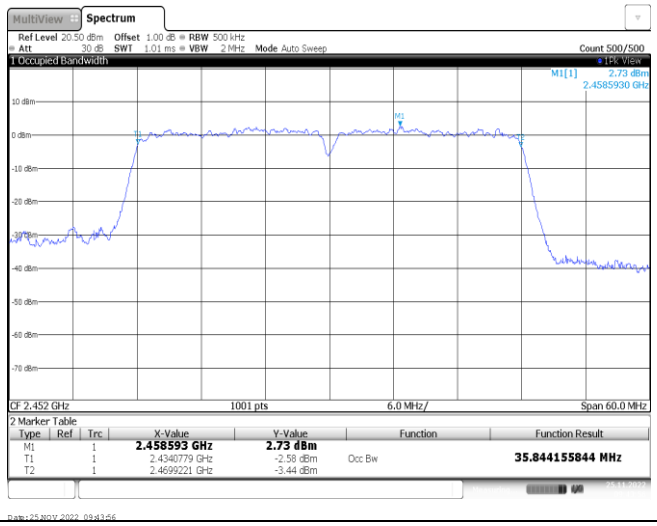
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	14.99	-	Pass
	06	14.93		
	11	14.93		
802.11g	01	16.87	-	Pass
	06	16.87		
	11	16.87		
802.11n(HT20)	01	17.89	-	Pass
	06	17.89		
	11	17.89		
802.11n(HT40)	03	35.84	-	Pass
	06	35.84		
	09	35.84		

Type:	802.11 b
CH01	
CH06	
CH11	

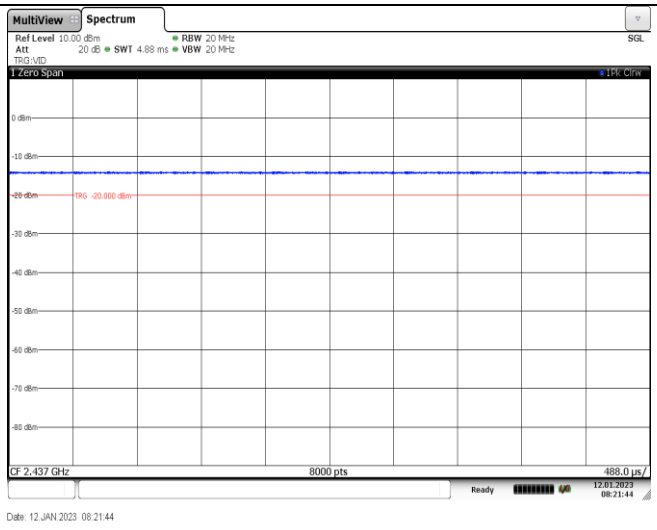
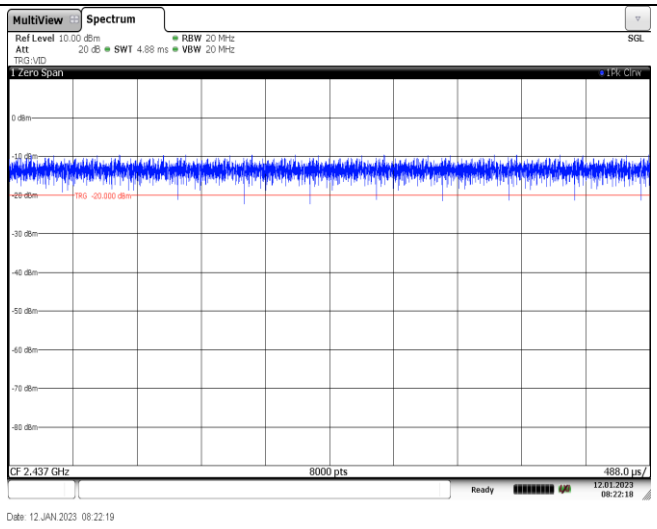
Type:	802.11 g
CH01	
CH06	
CH11	

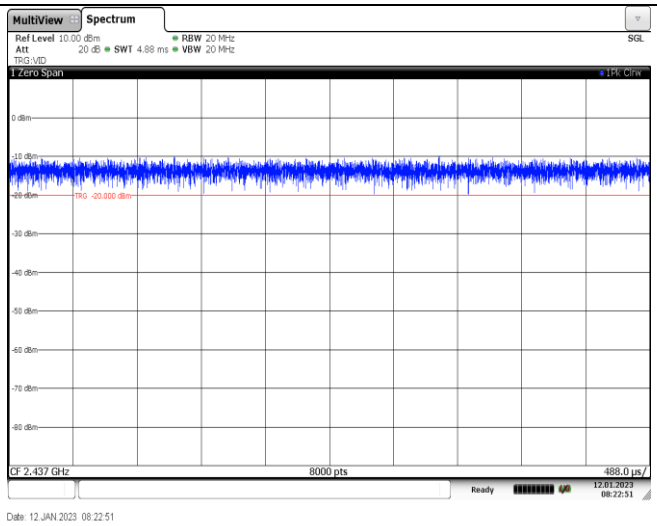
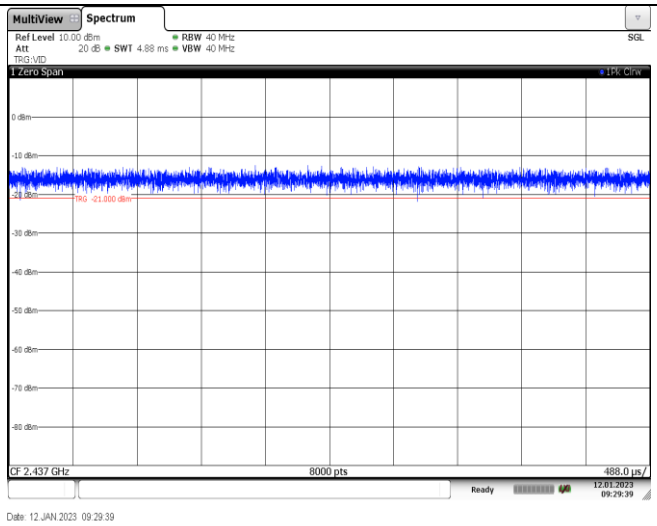
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Type:	802.11n(HT40)
CH03	
CH06	
CH09	

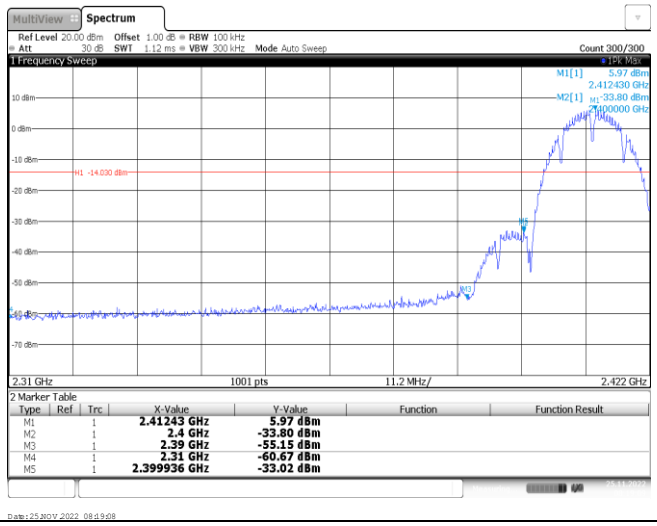
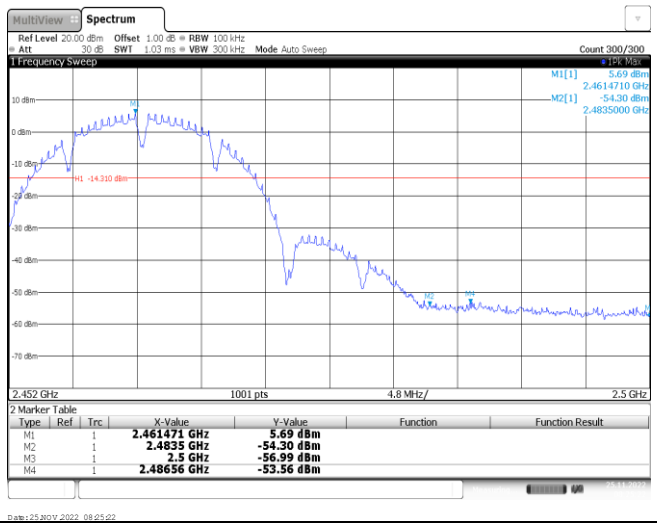
Appendix E：Duty Cycle

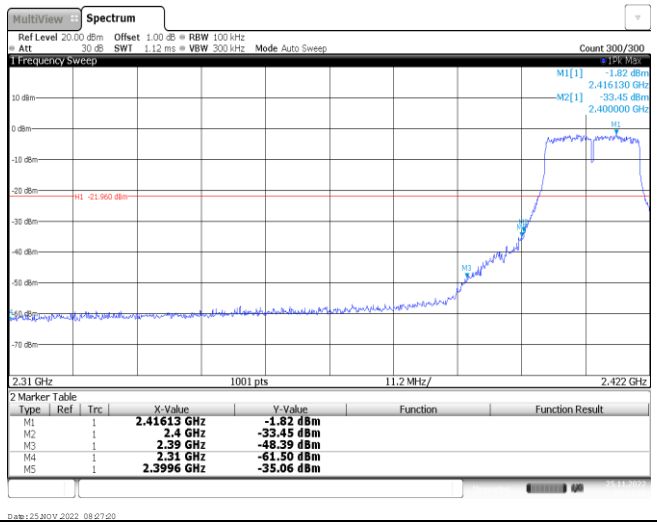
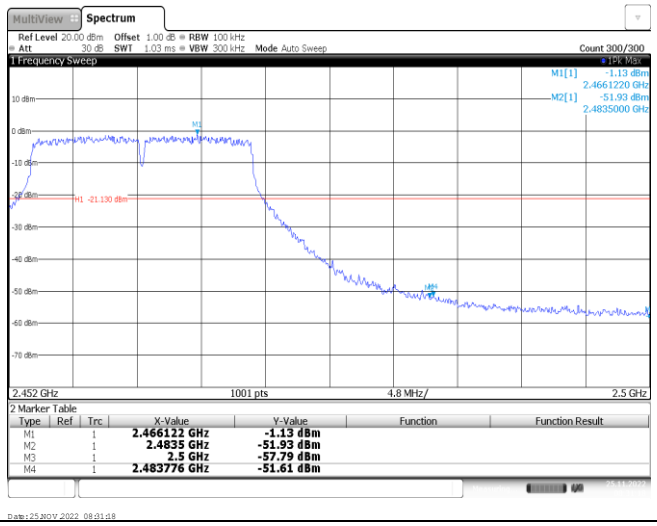
Modulation Type	Test Frequency（MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	1.00	1.00	100%	1
11g	2437	1.00	1.00	100%	1
11n20	2437	1.00	1.00	100%	1
11n40	2437	1.00	1.00	100%	1

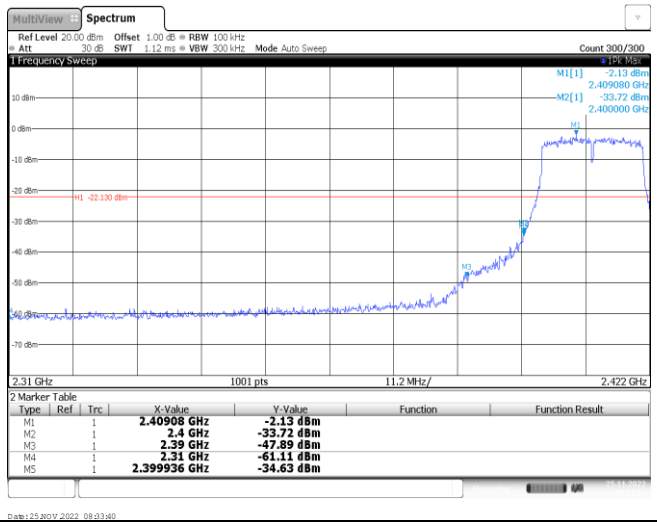
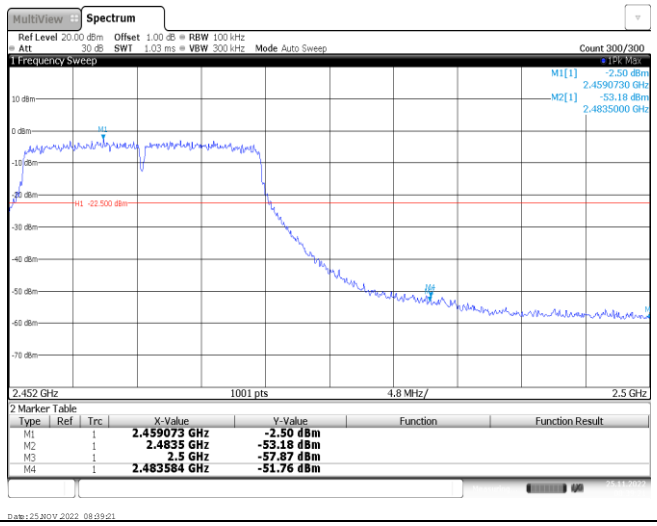
11b	
11g	

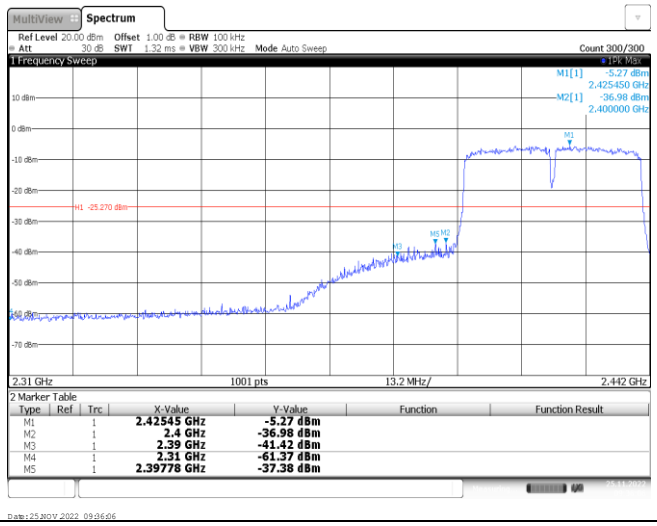
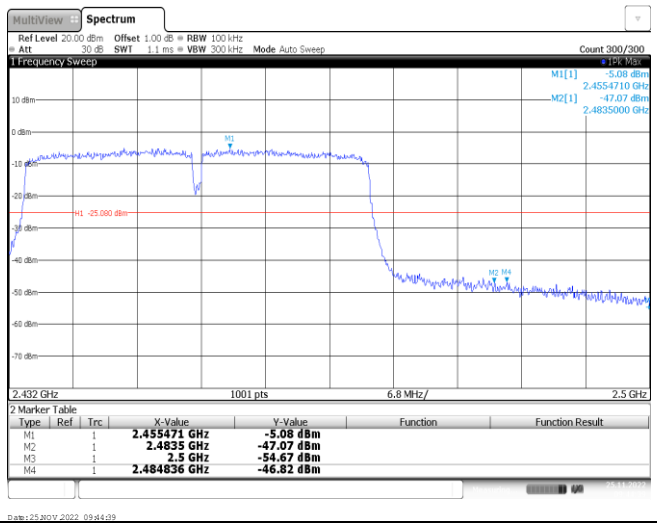
11n20	 MultiView Spectrum Ref Level 10.00 dBm Att 20 dB SWT 4.88 ms RBW 20 MHz VBW 20 MHz SGL TRG:VID 1 Zero Span 1Pk Clrw TRG -20.000 dBm CF 2.437 GHz 8000 pts 488.0 µs/ Ready 12.01.2023 08:22:51 Date: 12.JAN.2023 08:22:51
11n40	 MultiView Spectrum Ref Level 10.00 dBm Att 20 dB SWT 4.88 ms RBW 40 MHz VBW 40 MHz SGL TRG:VID 1 Zero Span 1Pk Clrw TRG -21.000 dBm CF 2.437 GHz 8000 pts 488.0 µs/ Ready 12.01.2023 09:29:39 Date: 12.JAN.2023 09:29:39

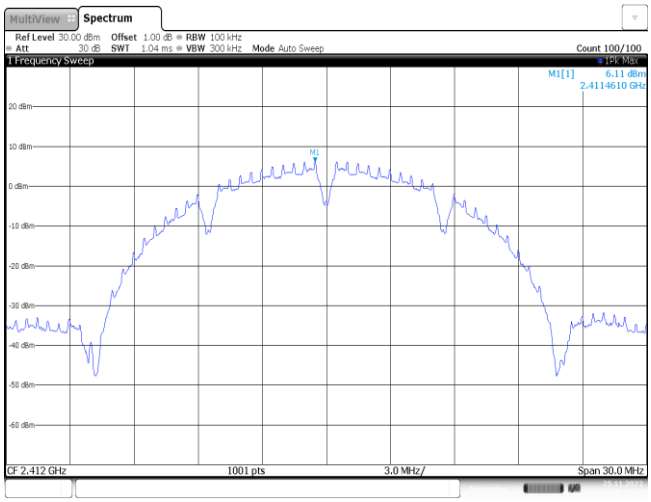
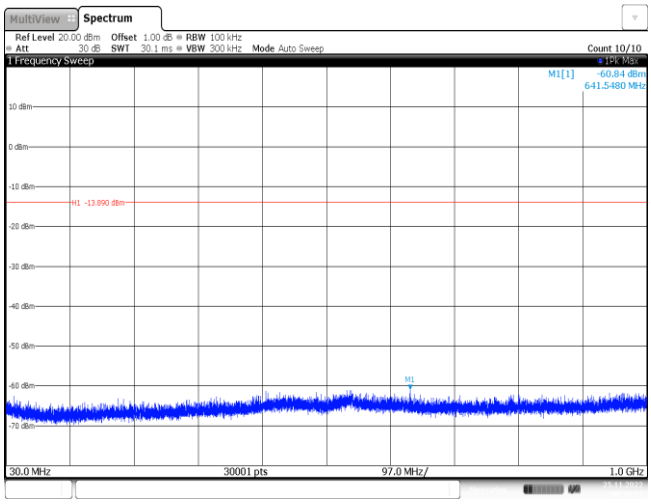
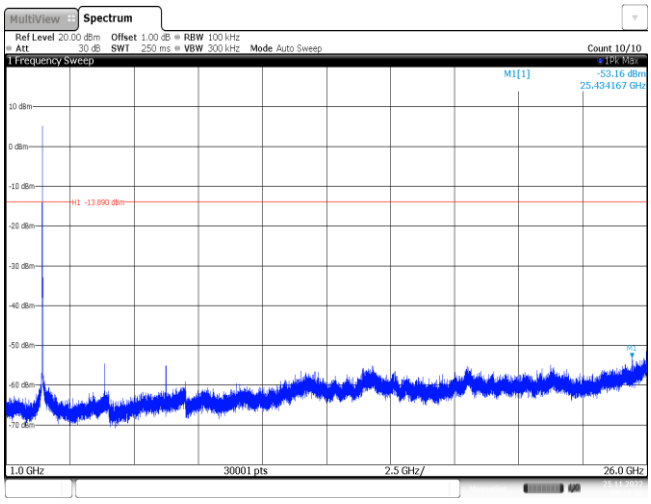
Appendix F：Band edge and Spurious Emissions (conducted)

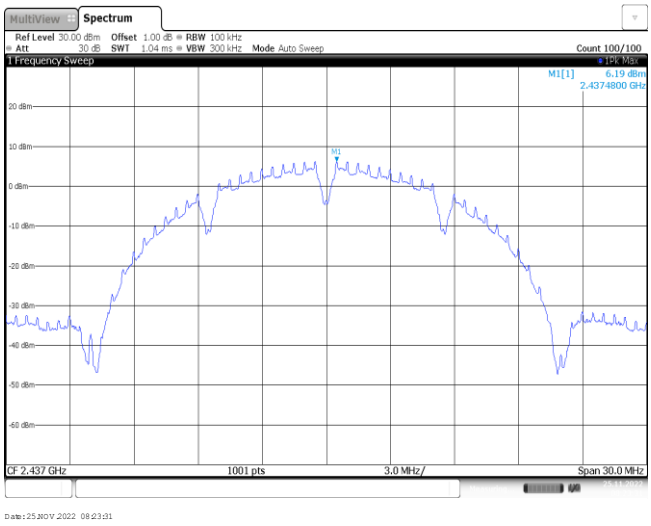
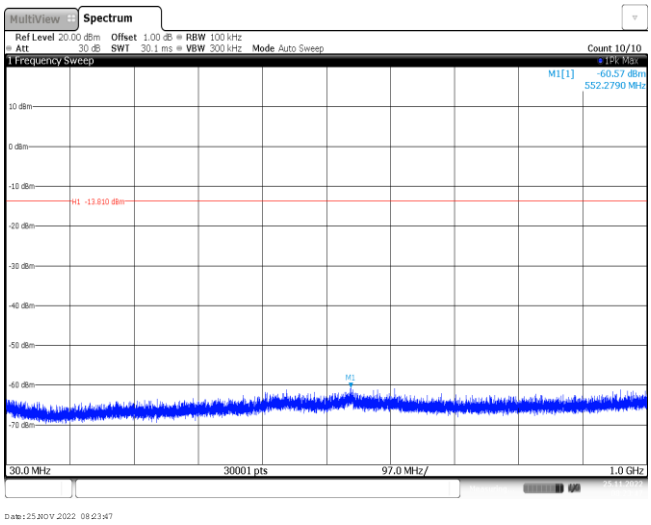
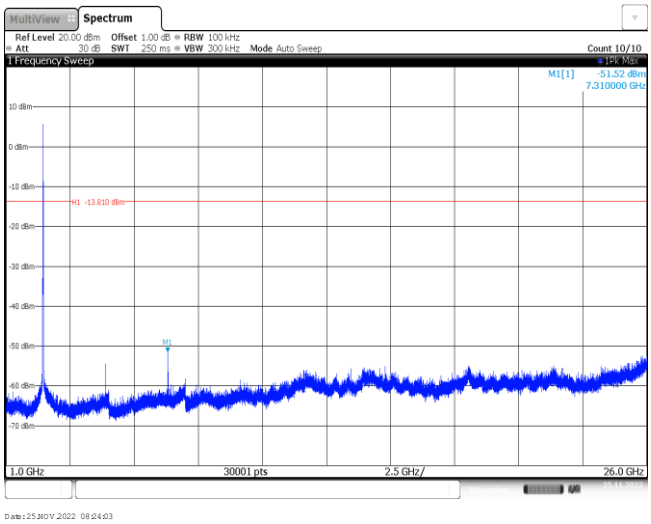
Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

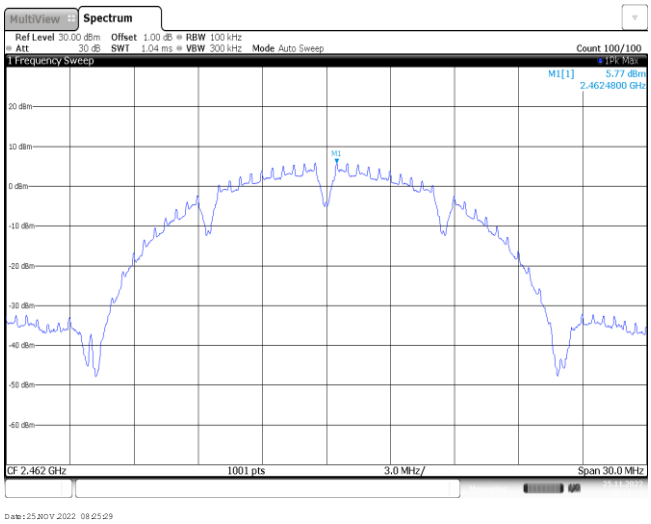
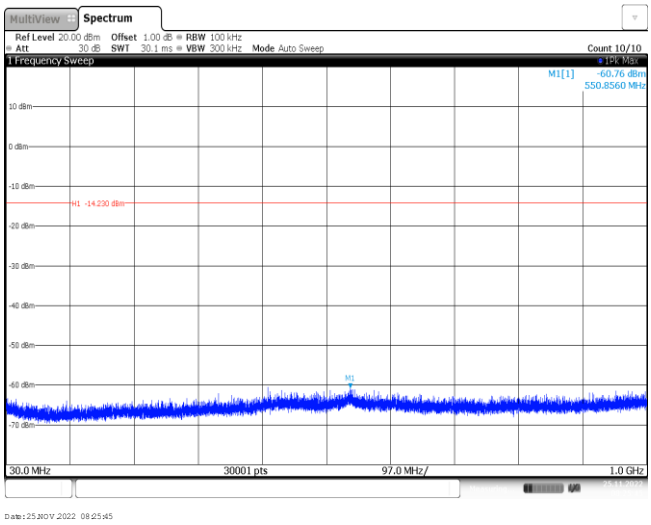
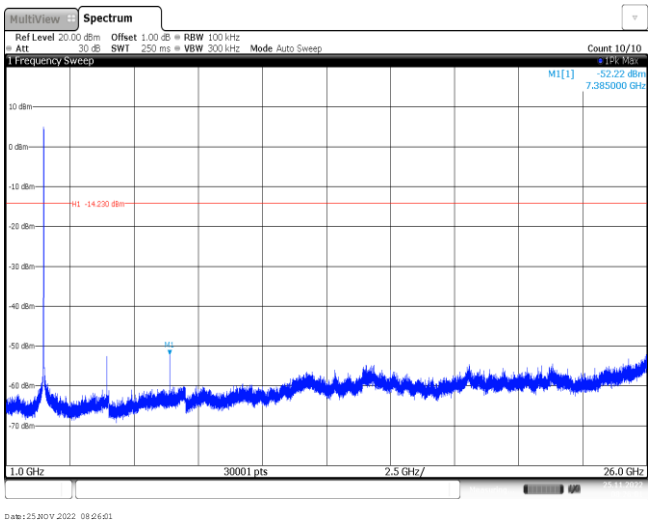
Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

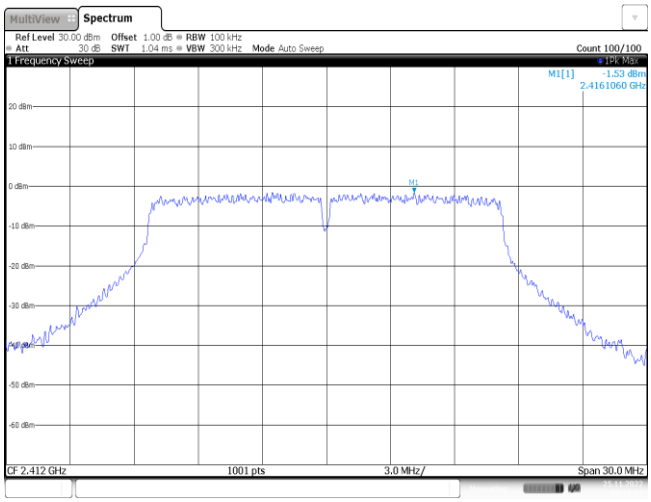
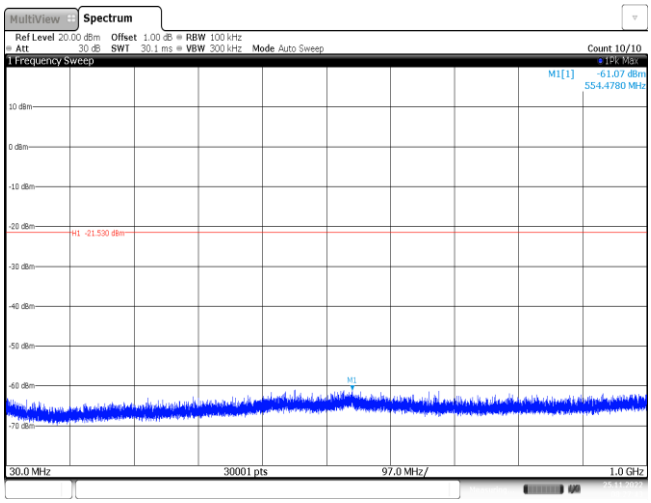
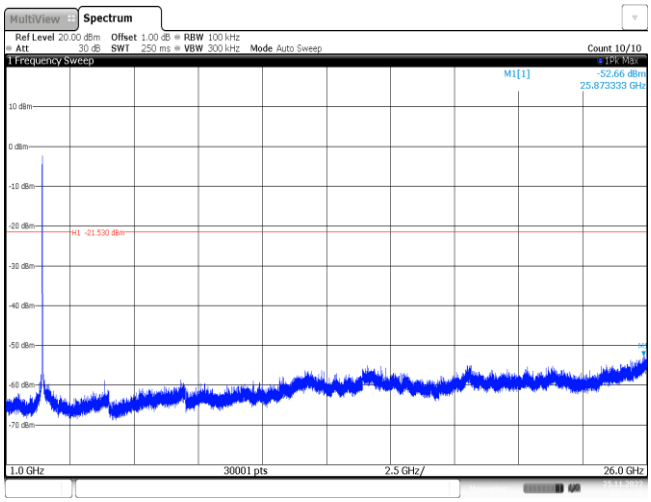
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

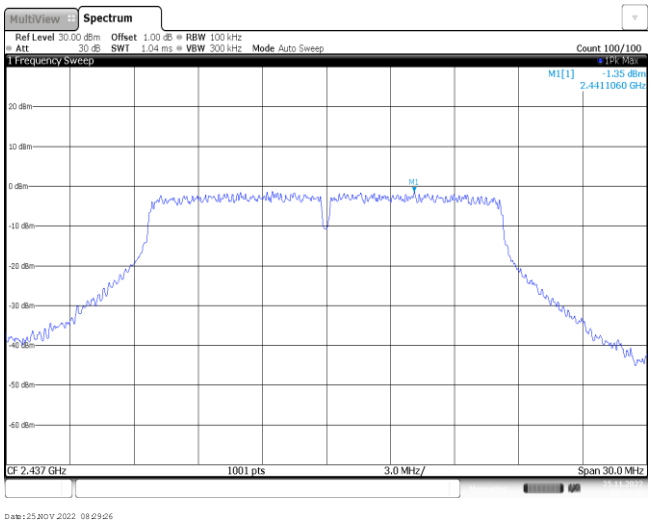
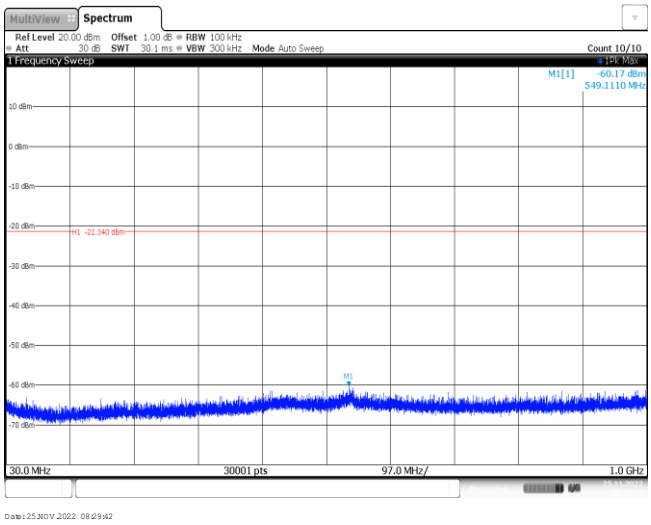
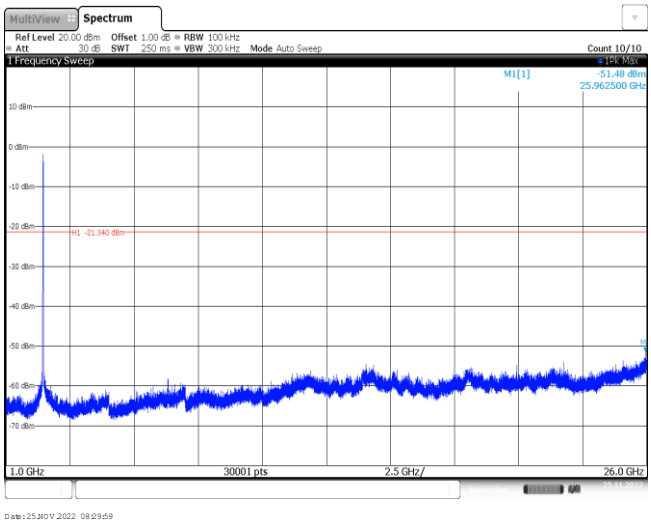
Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

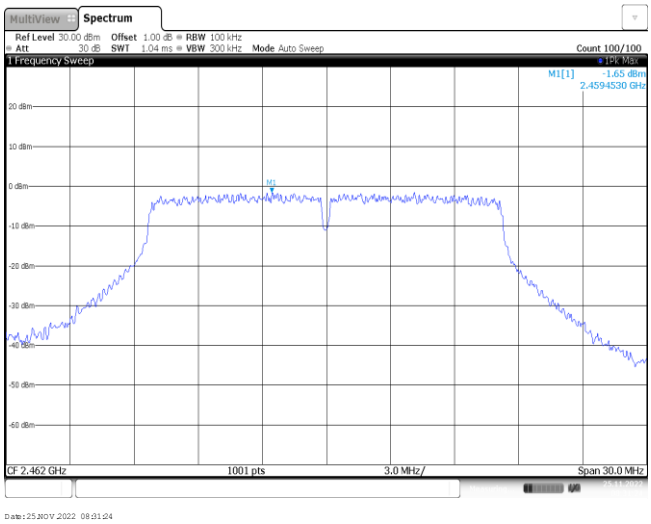
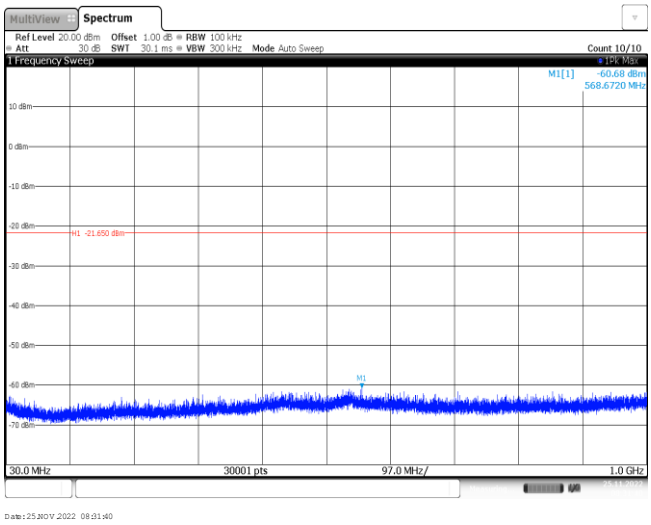
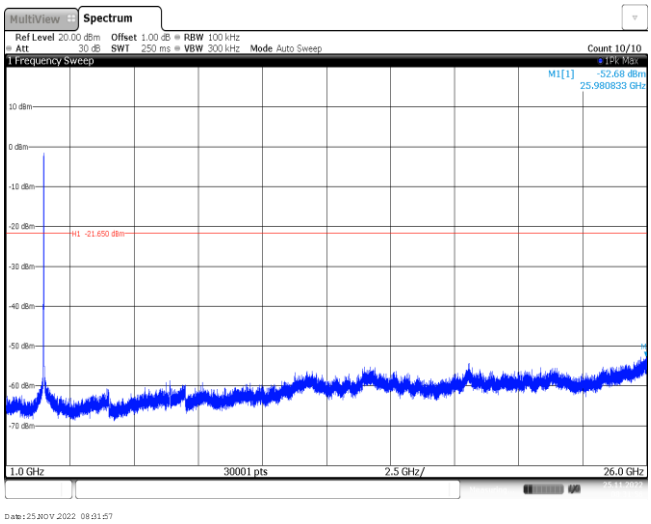
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

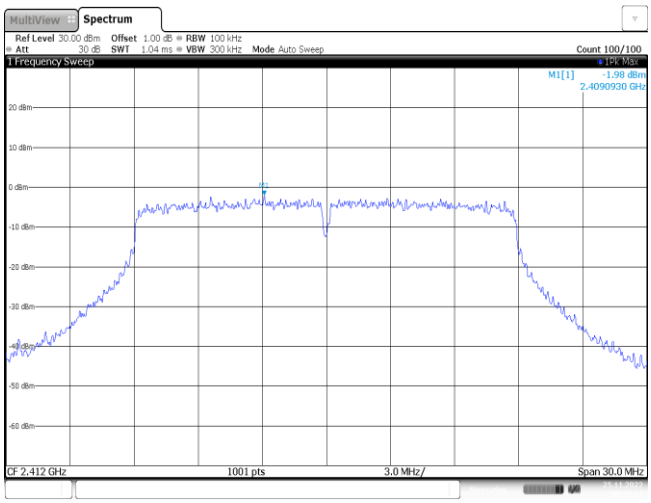
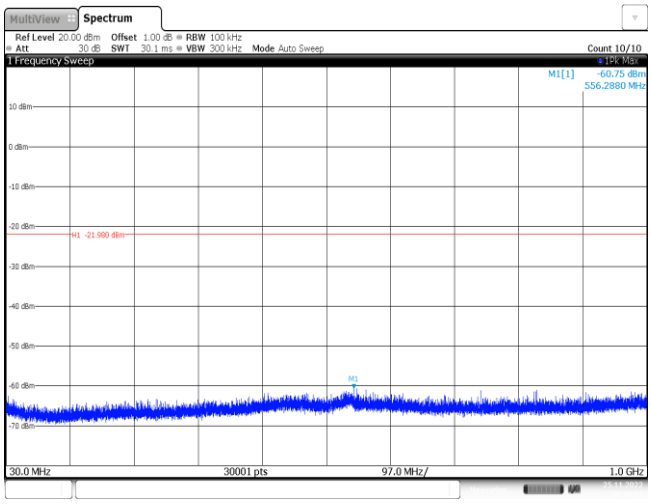
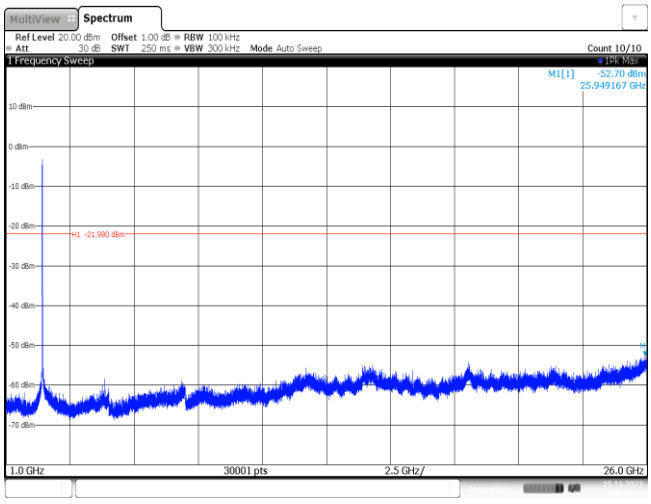
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

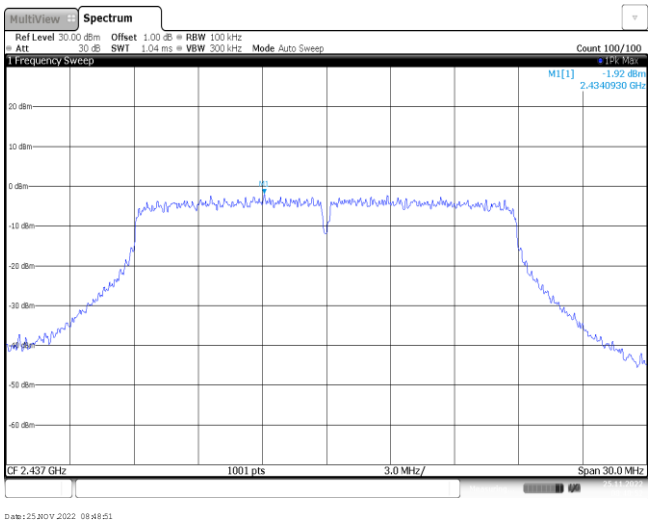
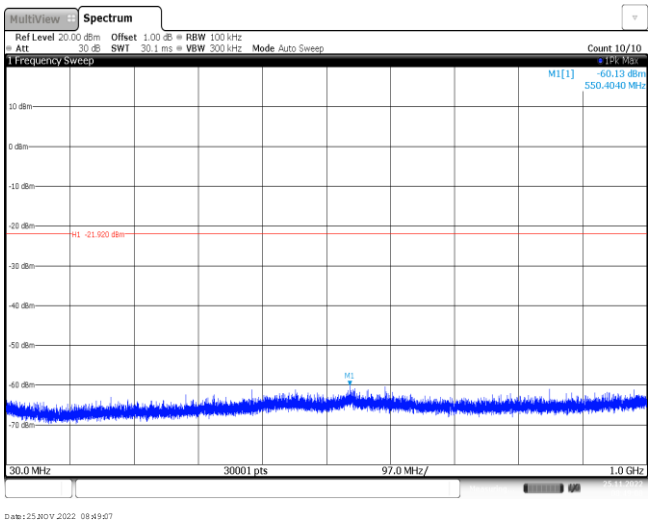
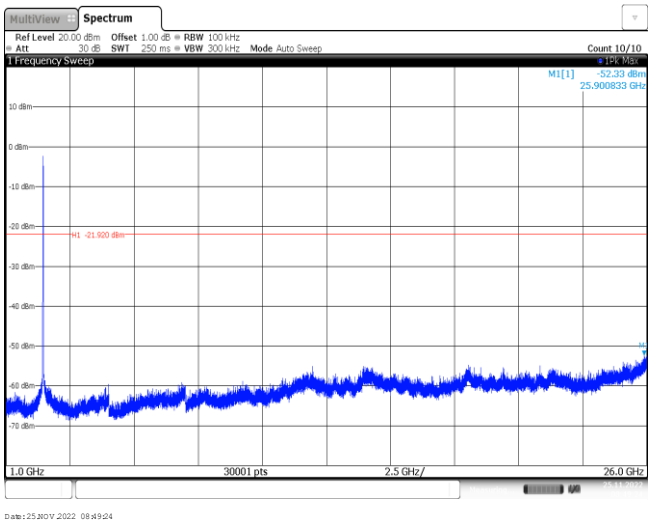
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

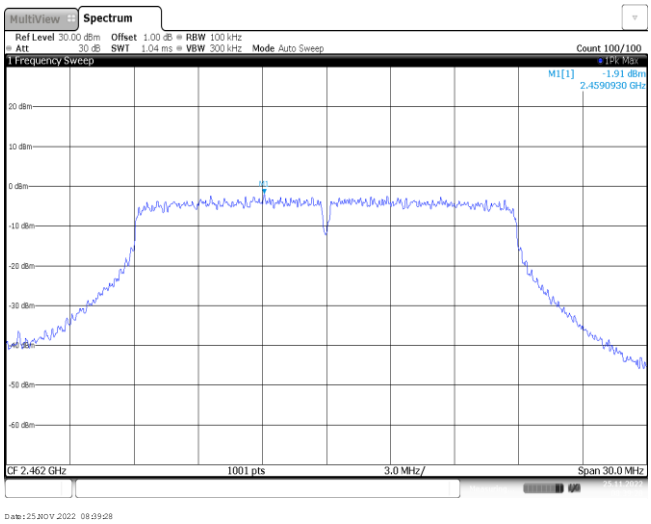
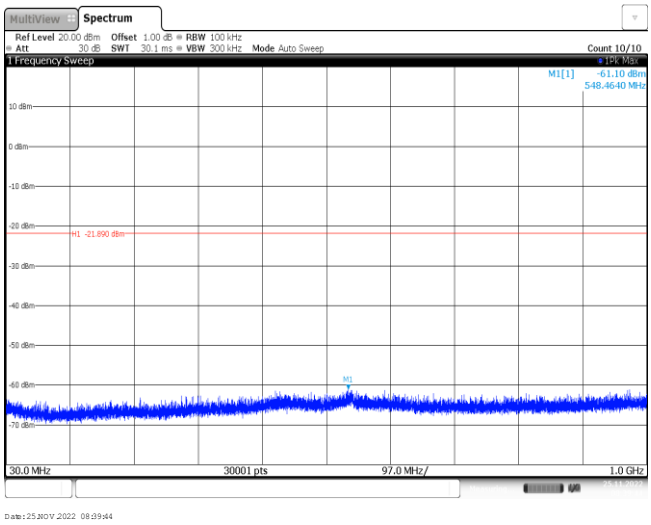
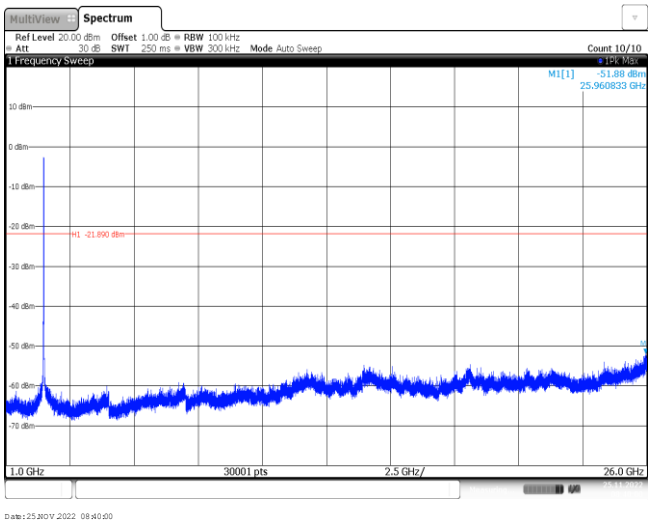
Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

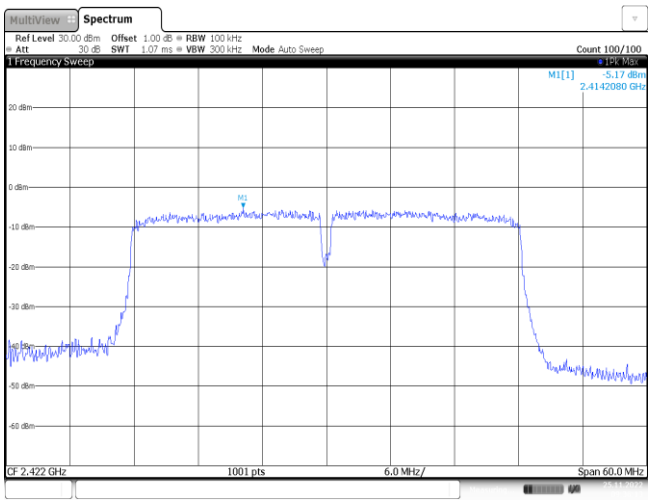
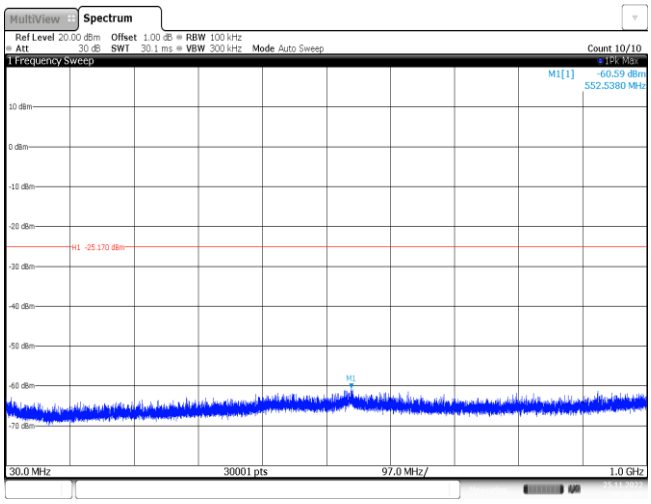
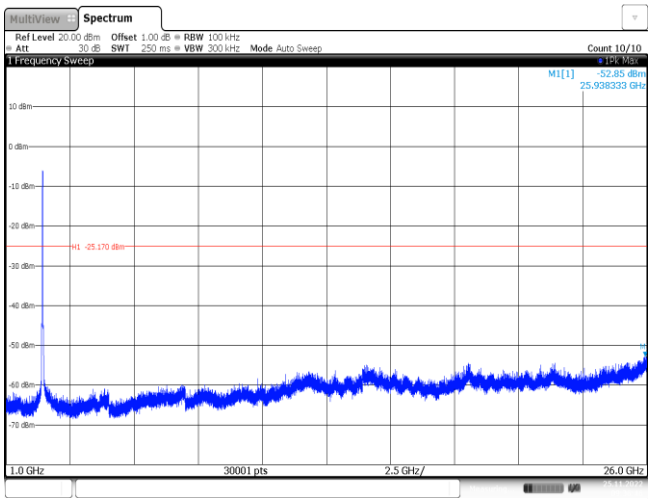
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

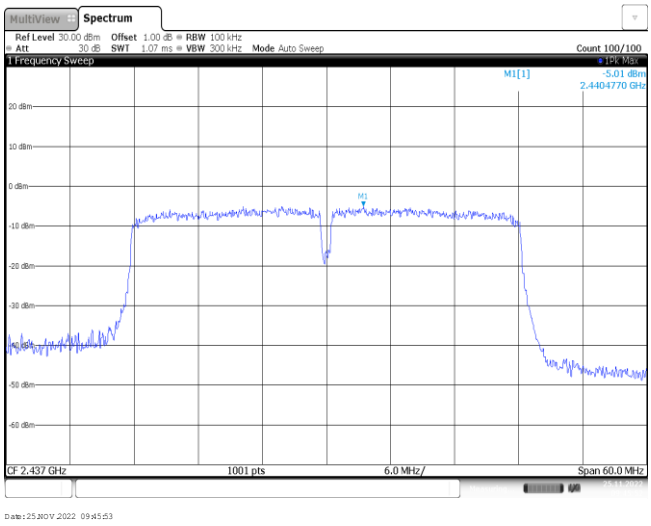
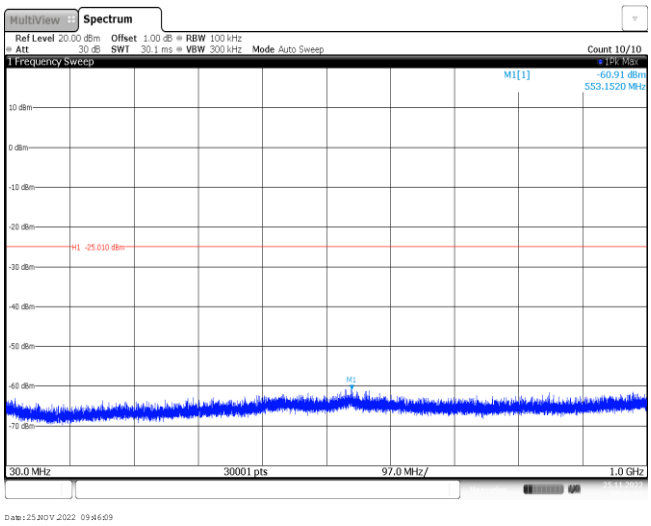
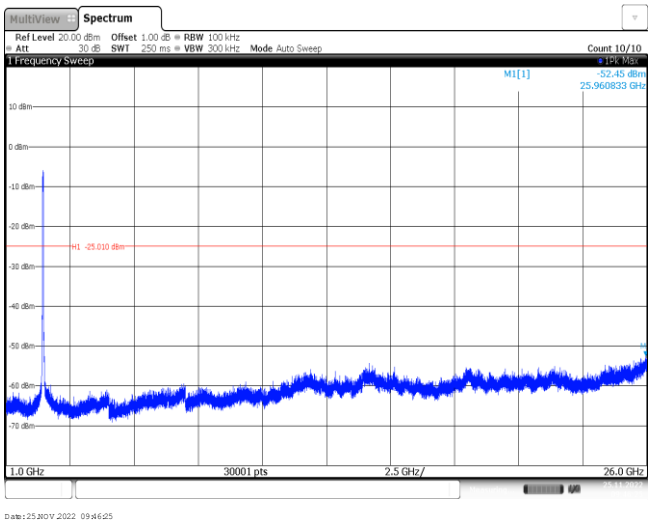
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

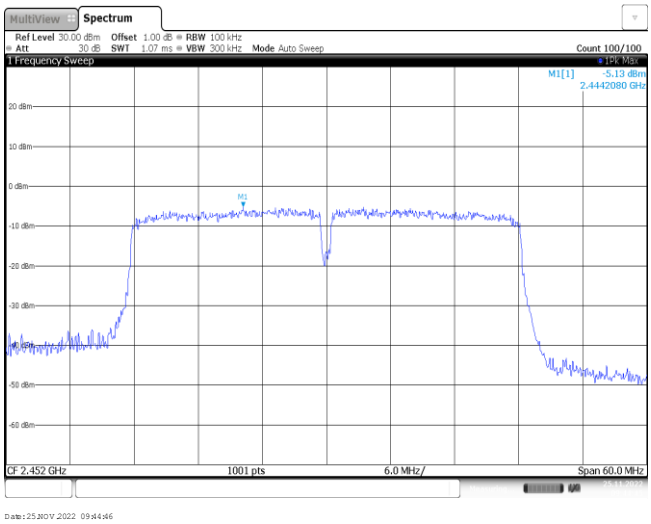
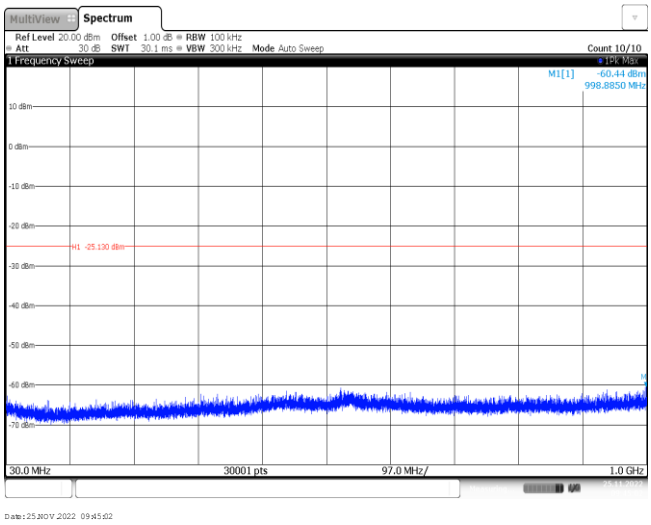
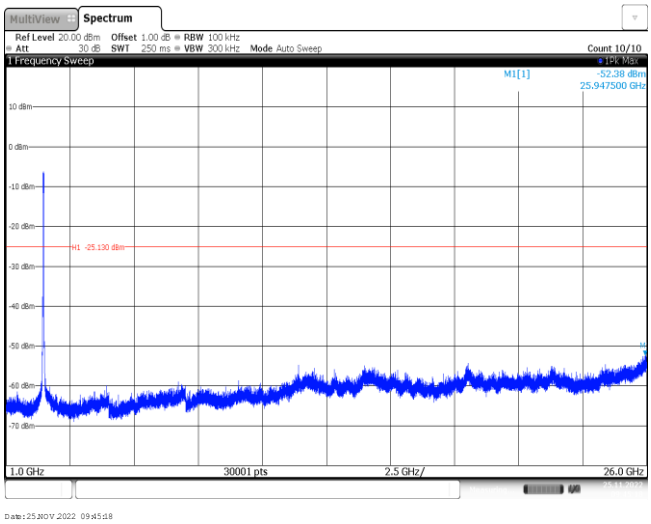
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

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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