APPENDIX REPORT

Project No.	SHT2101003001EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21010030002	Model No.	H60
Start test date	2021-01-14	Finish date	2021-01-14
Temperature	24.2°C	Humidity	20%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

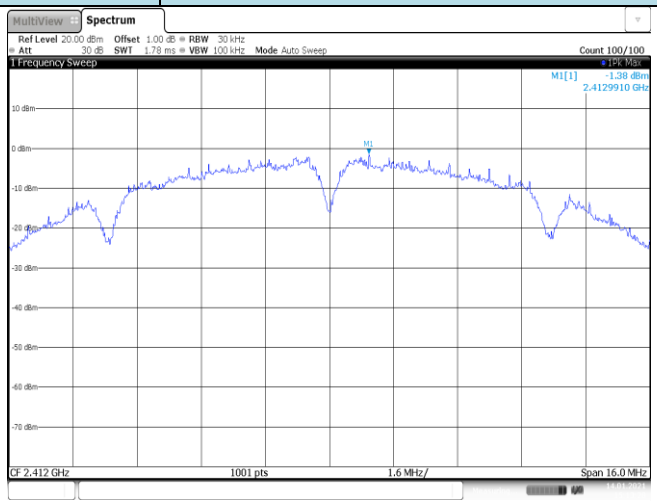
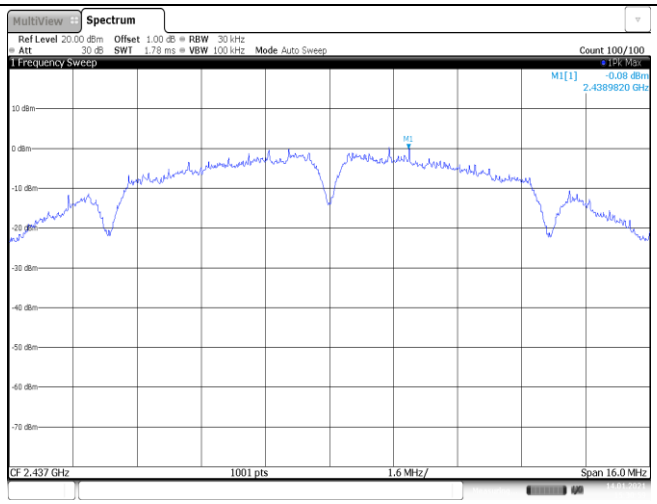
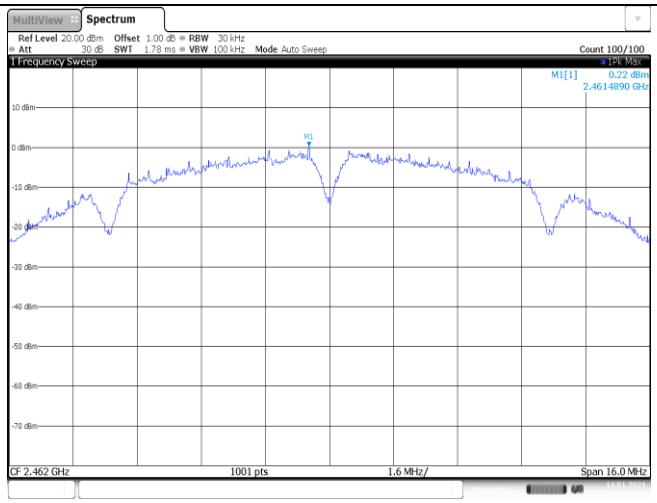
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

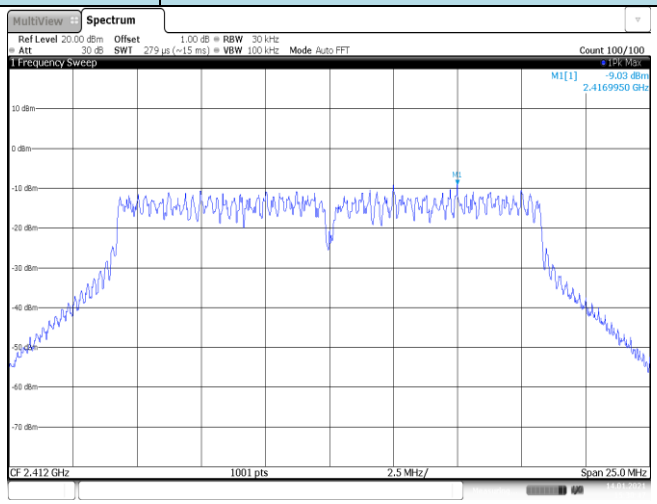
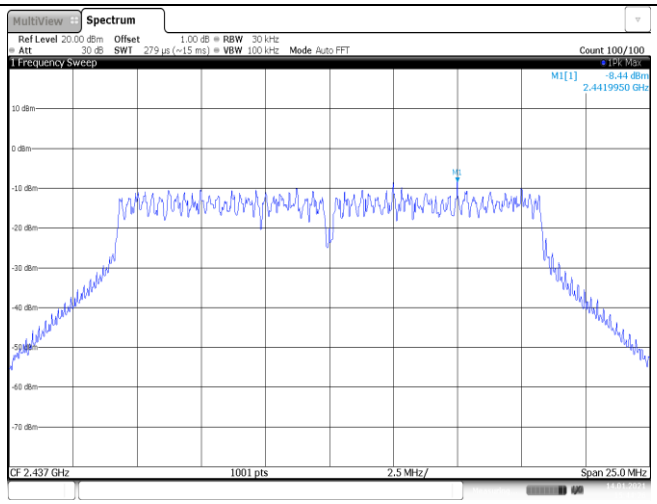
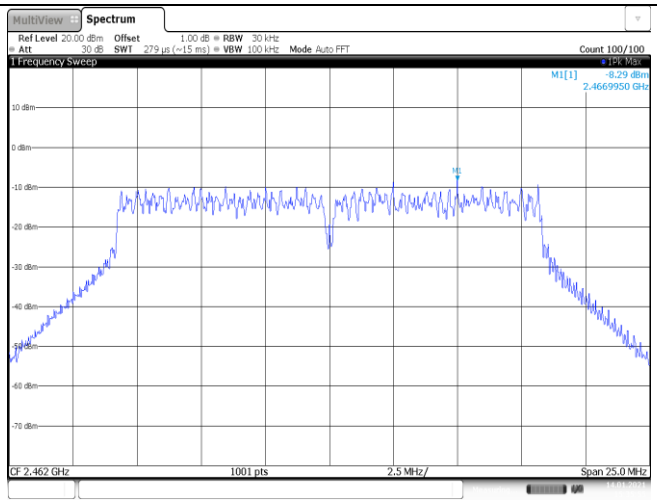
Appendix A: Conducted Peak Output Power

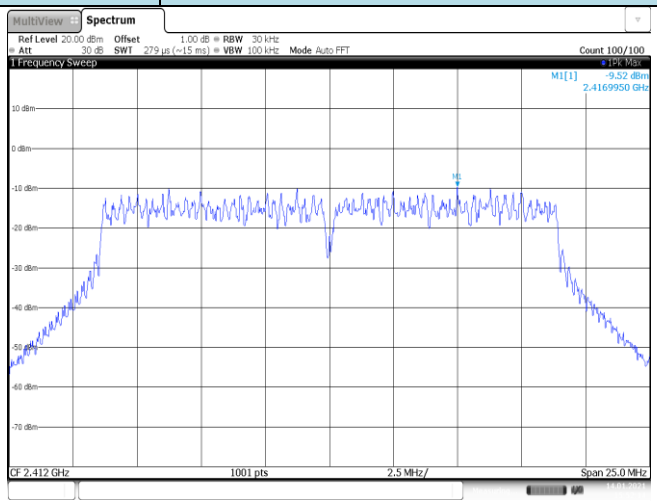
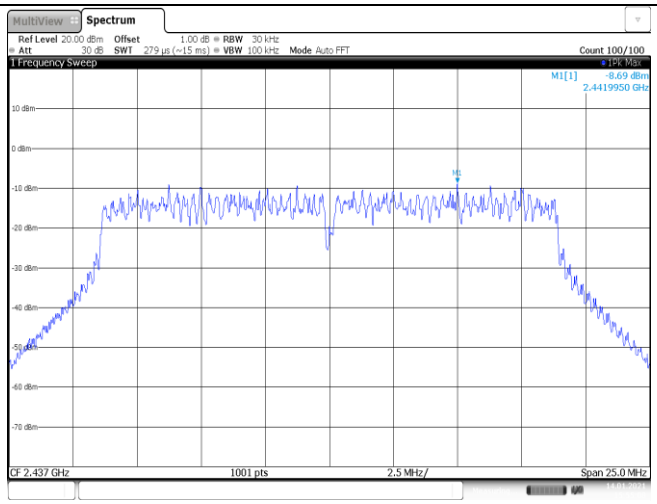
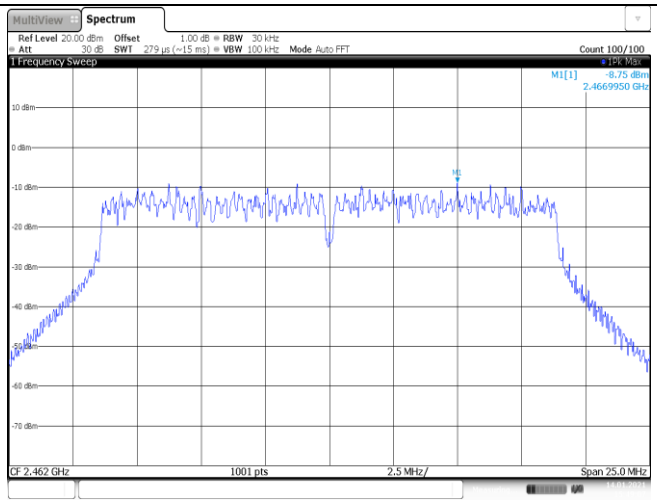
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	14.24	11.69	≤ 30.00	Pass
	06	14.98	11.80		
	11	15.43	12.84		
802.11g	01	14.60	12.48	≤ 30.00	Pass
	06	14.68	12.58		
	11	15.67	13.47		
802.11n (HT20)	01	14.41	12.23	≤ 30.00	Pass
	06	14.64	12.50		
	11	15.47	13.08		
802.11n(HT40)	03	14.58	12.34	≤ 30.00	Pass
	06	14.93	12.69		
	09	15.25	13.11		

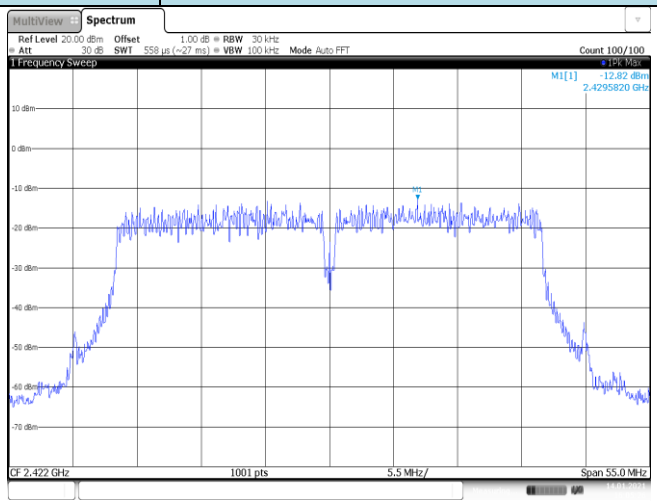
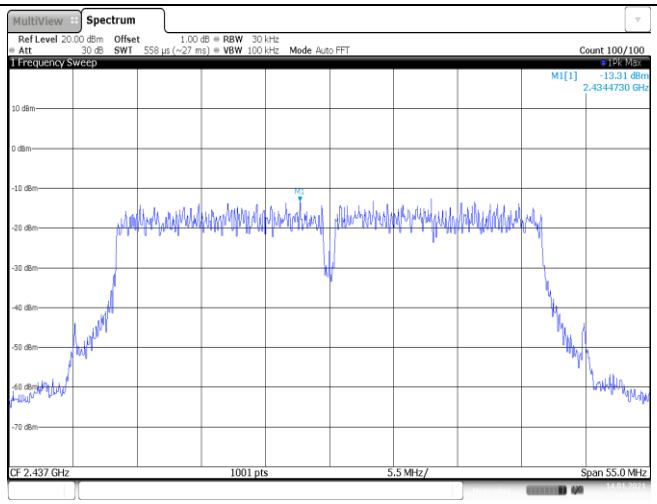
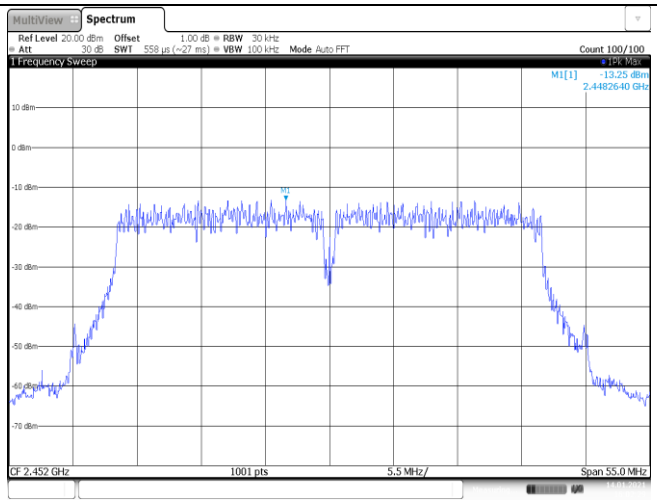
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-1.38	≤8.00	Pass
	06	-0.08		
	11	0.22		
802.11g	01	-9.03	≤8.00	Pass
	06	-8.44		
	11	-8.29		
802.11n(HT20)	01	-9.52	≤8.00	Pass
	06	-8.69		
	11	-8.75		
802.11n(HT40)	03	-12.82	≤8.00	Pass
	06	-13.31		
	09	-13.25		

Type:	802.11 b
CH01	
CH06	
CH11	

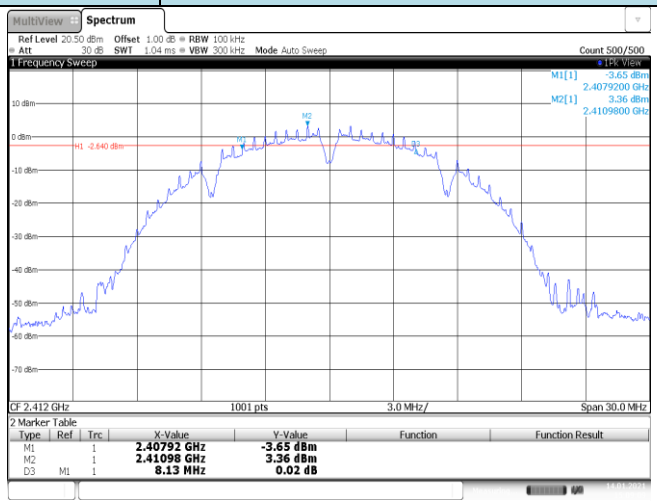
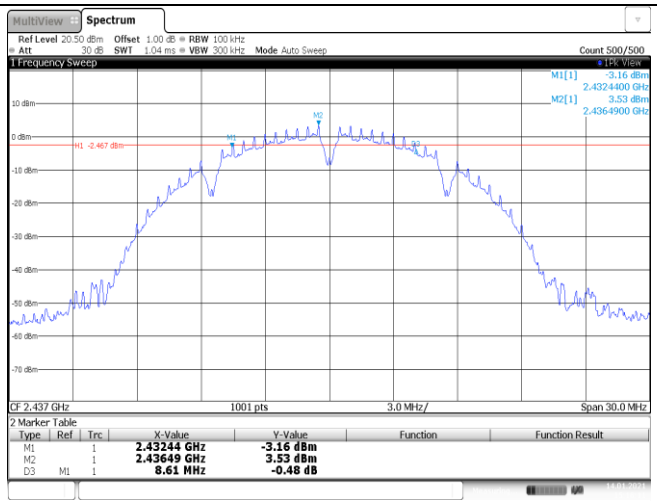
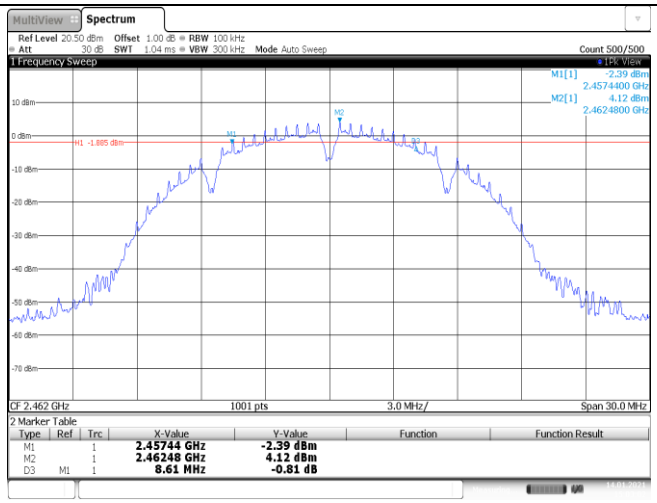
Type:	802.11 g
CH01	
CH06	
CH11	

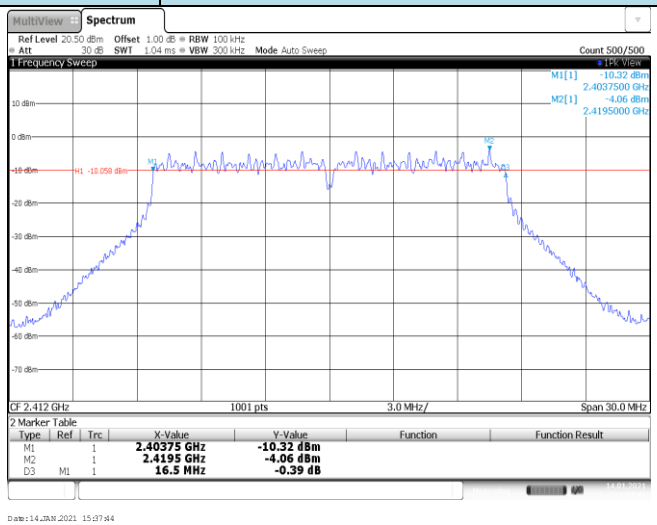
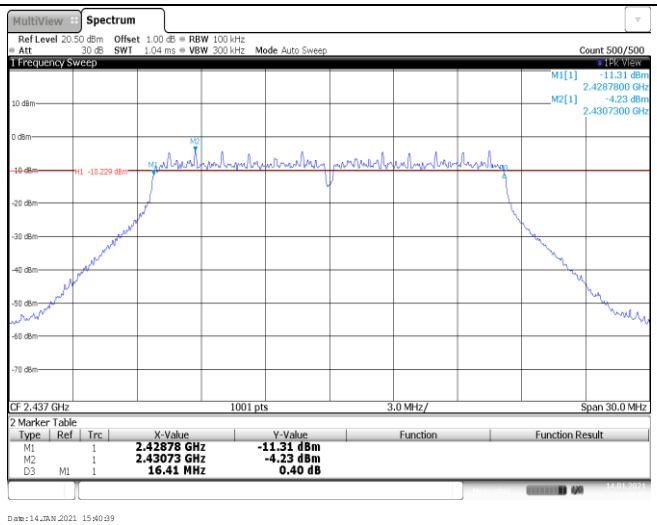
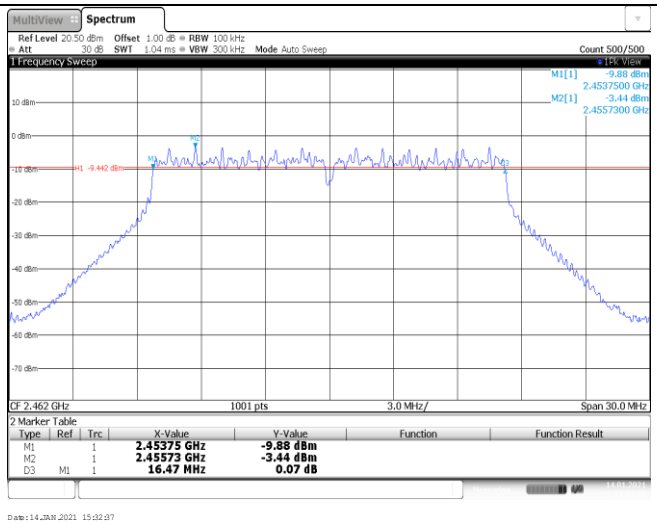
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

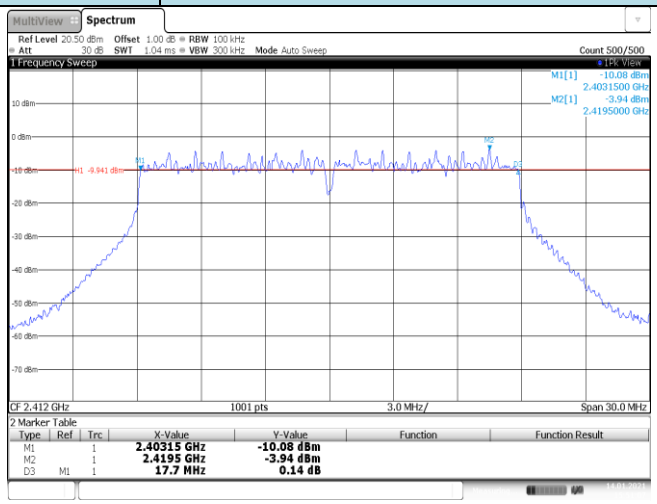
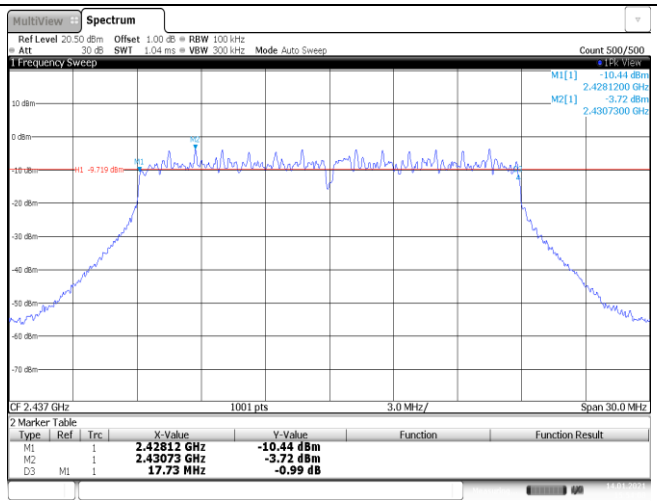
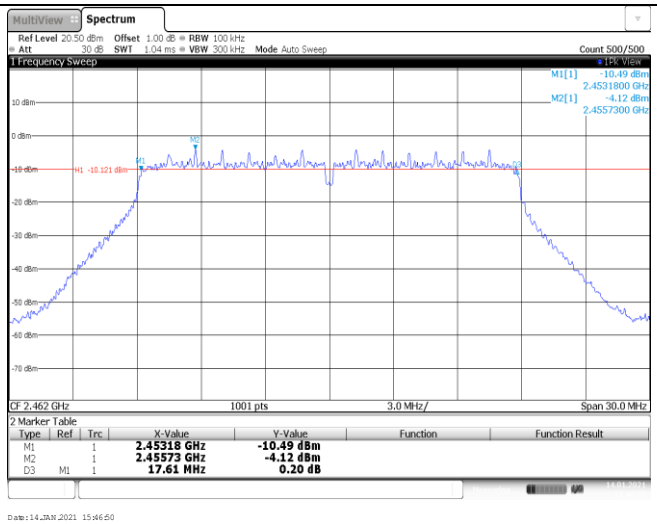
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

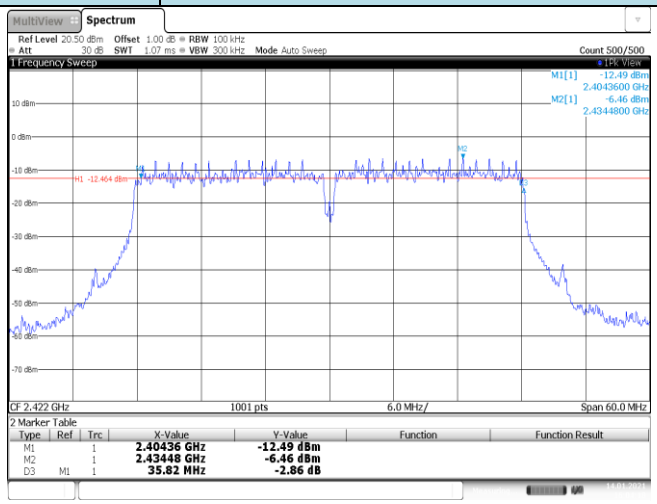
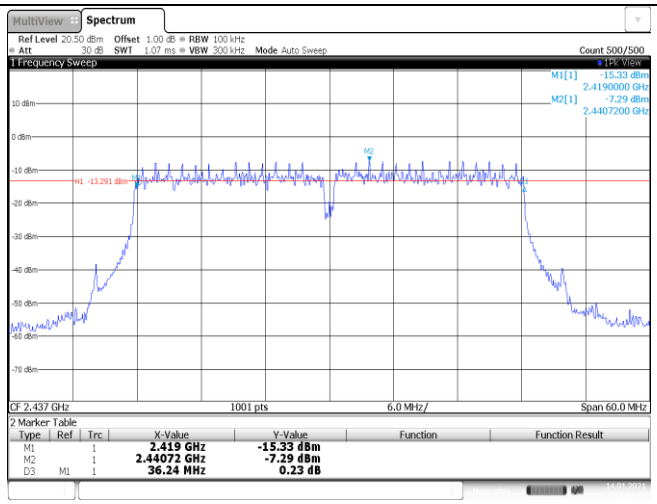
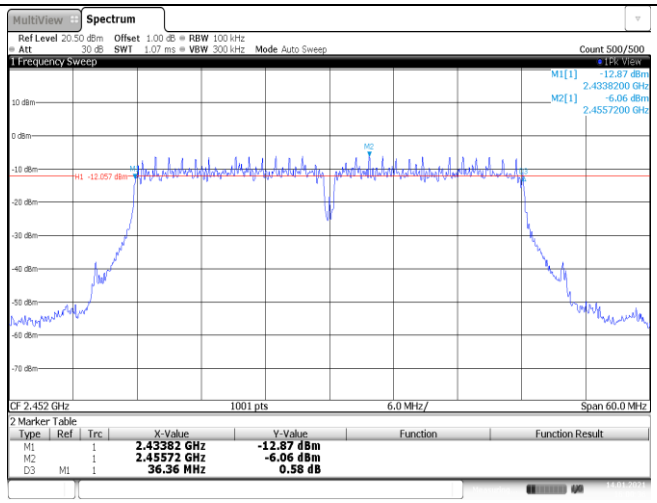
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.13	≥0.5	Pass
	06	8.61		
	11	8.61		
802.11g	01	16.50	≥0.5	Pass
	06	16.41		
	11	16.47		
802.11n(HT20)	01	17.70	≥0.5	Pass
	06	17.73		
	11	17.61		
802.11n(HT40)	03	35.82	≥0.5	Pass
	06	36.24		
	09	36.36		

Type:	802.11 b
CH01	
CH06	
CH11	

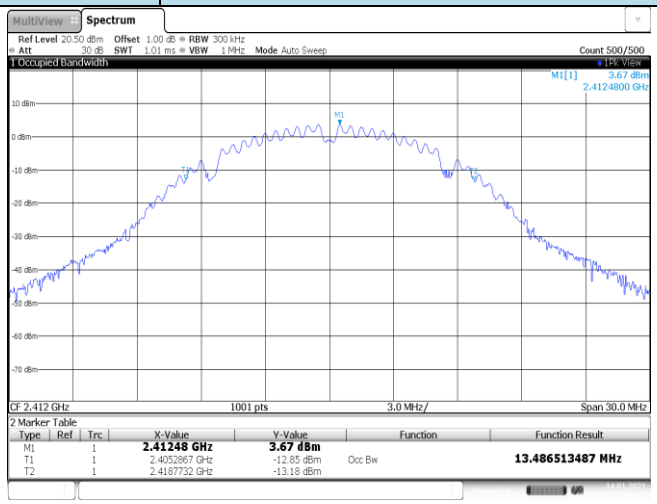
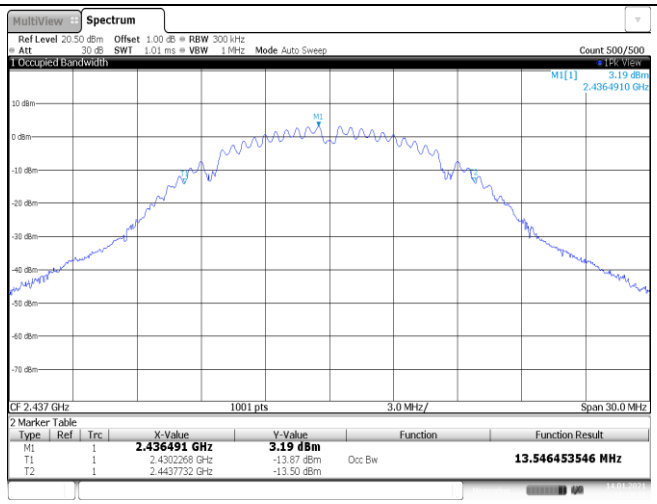
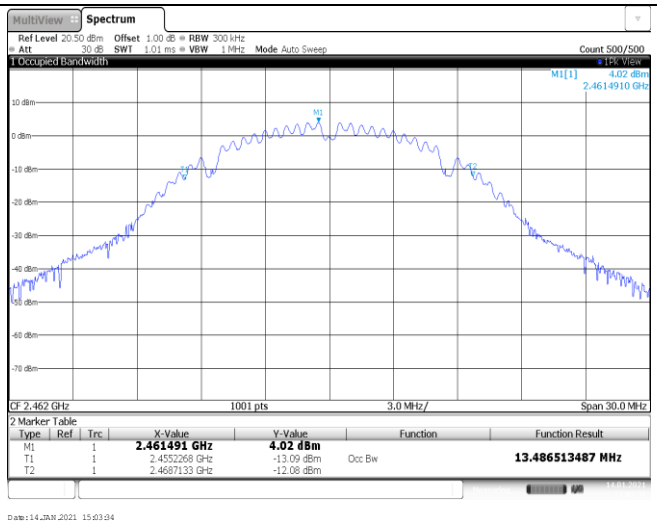
Type:	802.11 g
CH01	
CH06	
CH11	

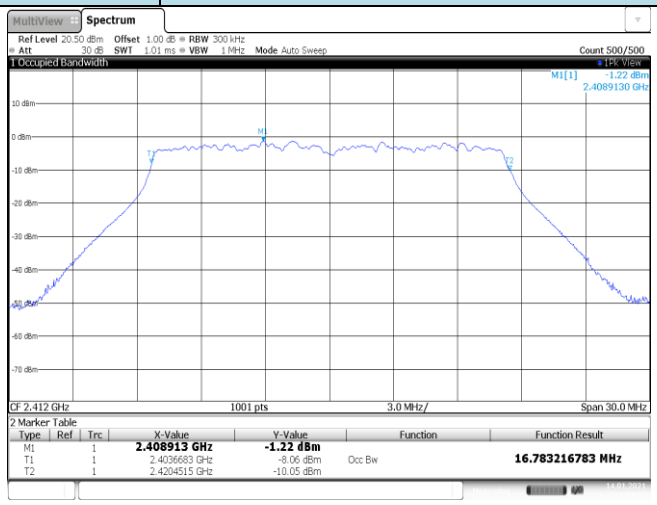
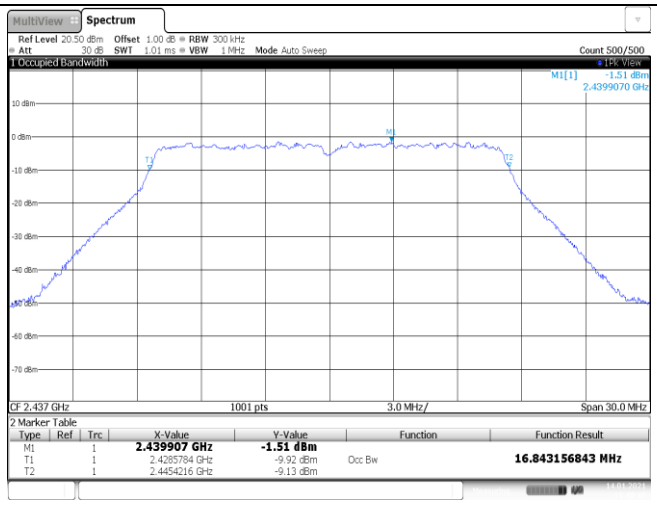
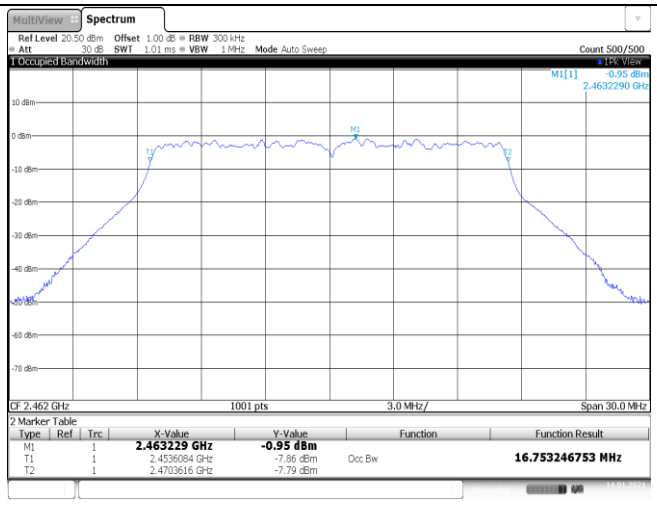
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

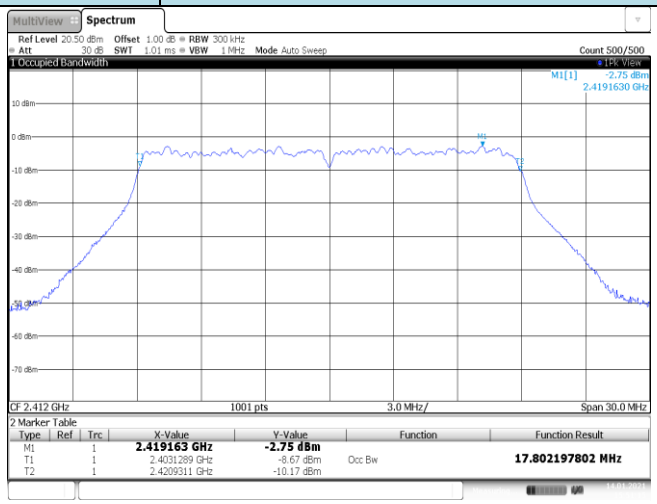
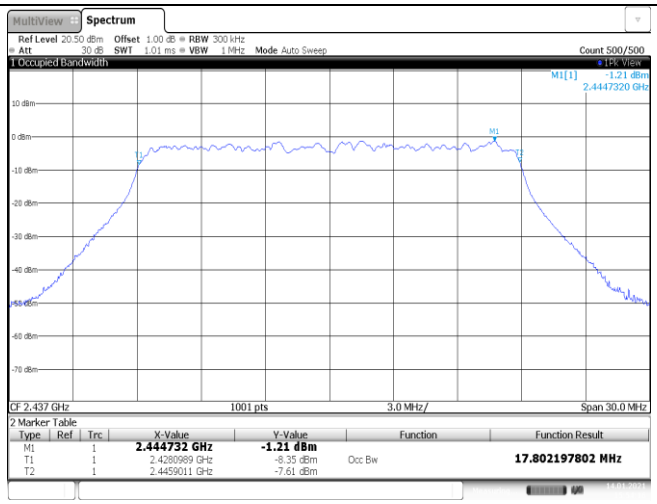
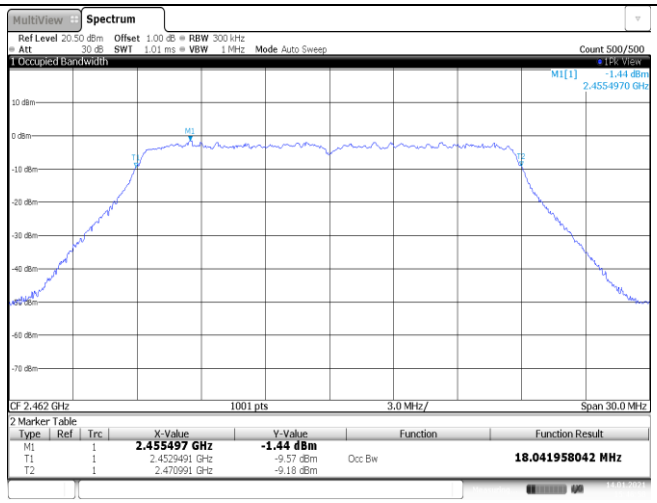
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

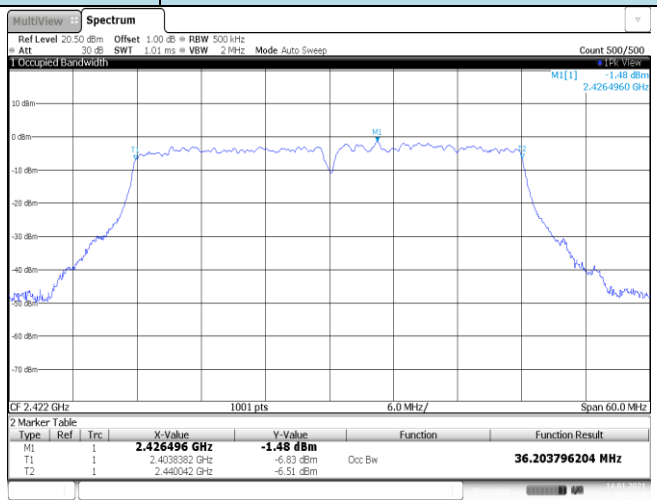
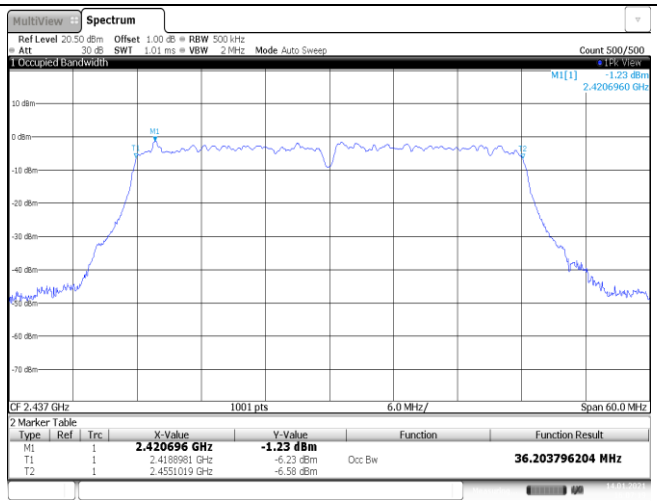
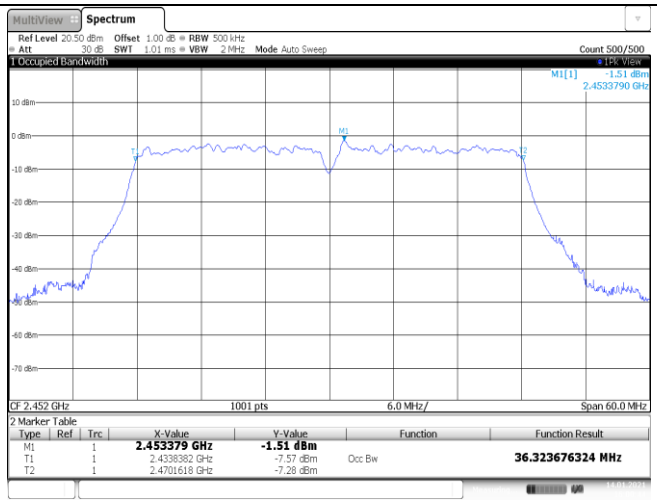
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	13.49	-	Pass
	06	13.55		
	11	13.49		
802.11g	01	16.78	-	Pass
	06	16.84		
	11	16.75		
802.11n(HT20)	01	17.80	-	Pass
	06	17.80		
	11	18.04		
802.11n(HT40)	03	36.20	-	Pass
	06	36.20		
	09	36.32		

Type:	802.11 b
CH01	
CH06	
CH11	

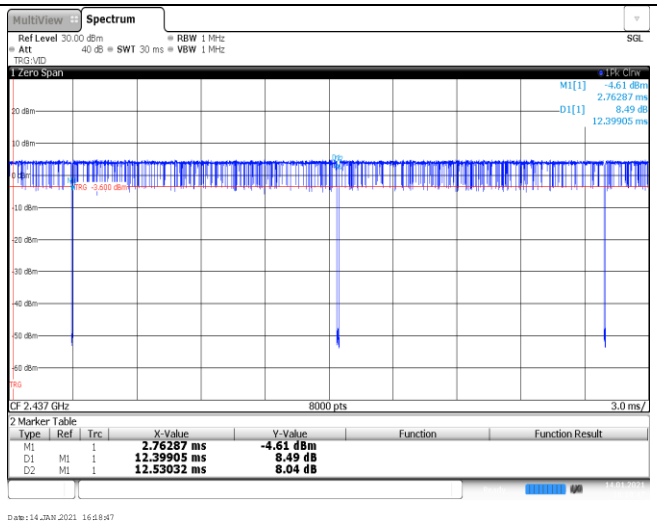
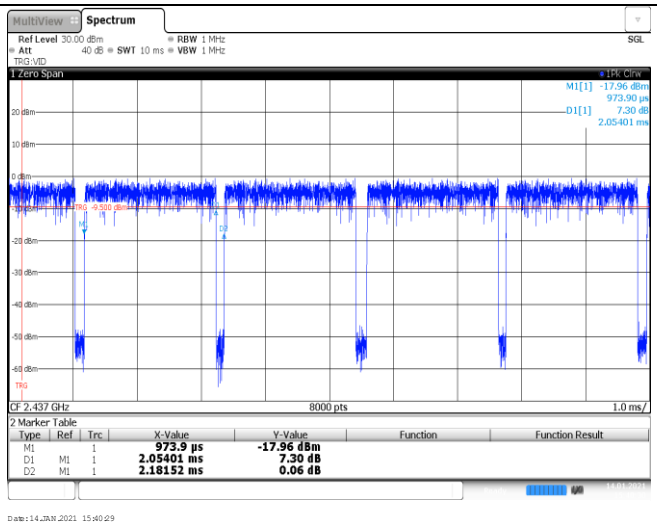
Type:	802.11 g
CH01	
CH06	
CH11	

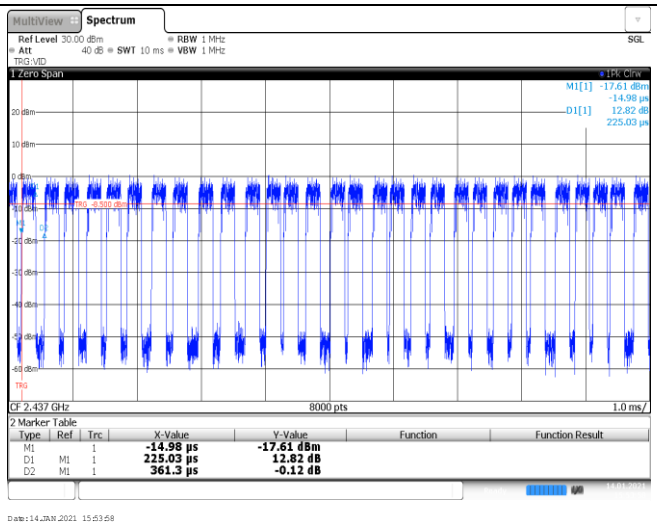
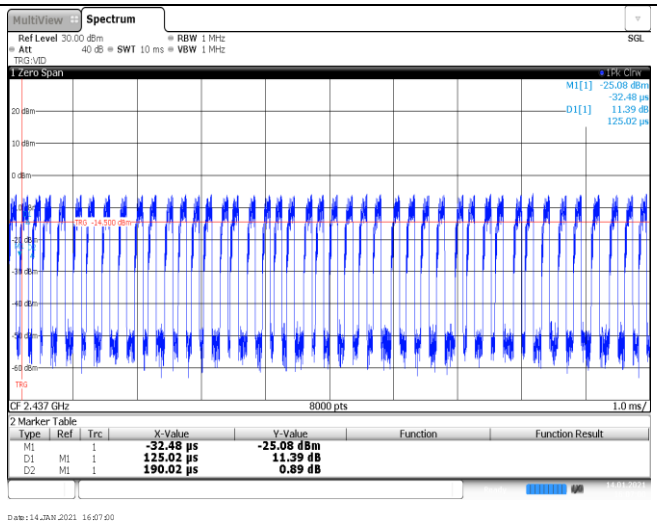
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Type:	802.11n(HT40)
CH03	
CH06	
CH09	

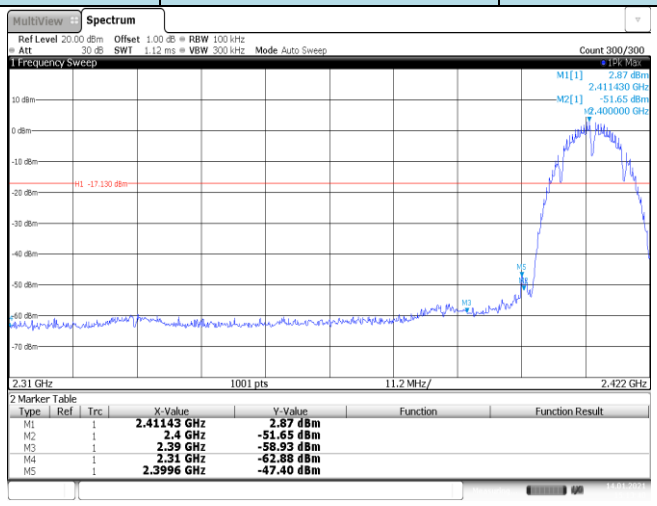
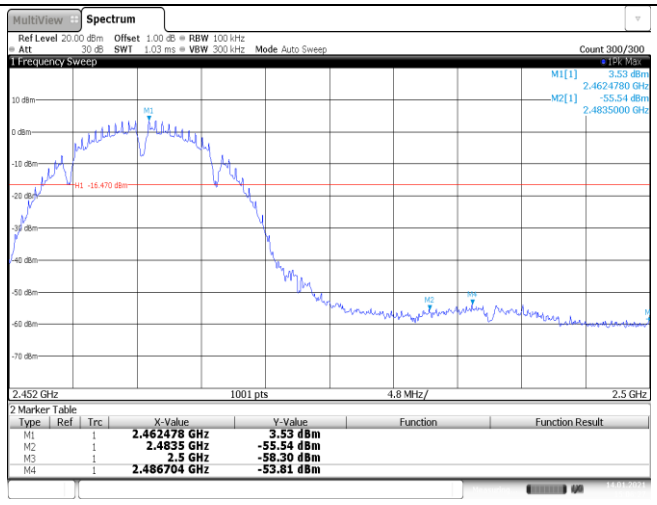
Appendix E：Duty Cycle

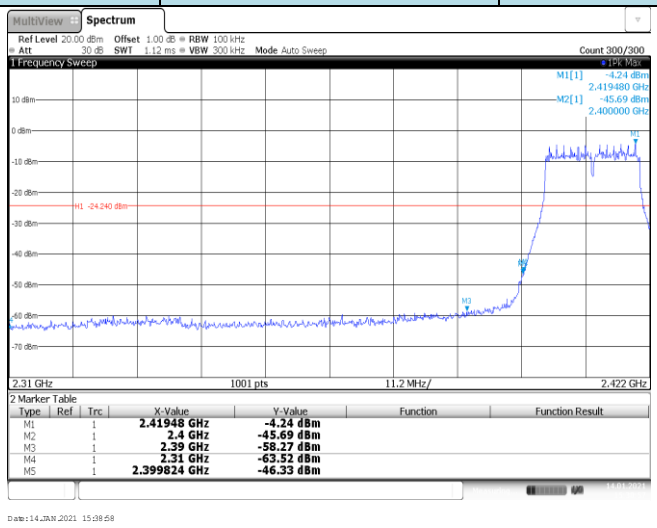
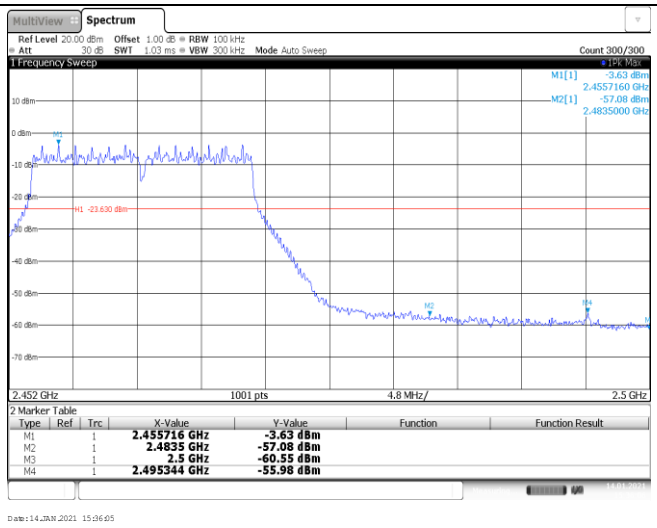
Modulation Type	Test Frequency（MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	12.40	12.47	99.4%	0.1
11g	2437	2.05	2.18	94.0%	0.5
11n20	2437	0.23	0.36	63.9%	4.3
11n40	2437	0.13	0.19	68.4%	7.7

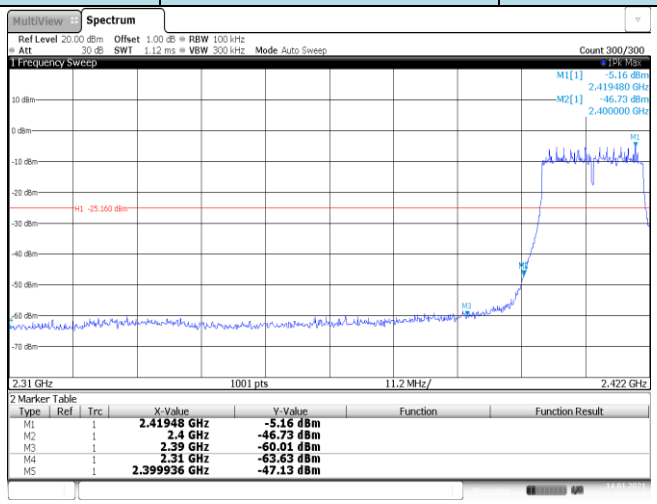
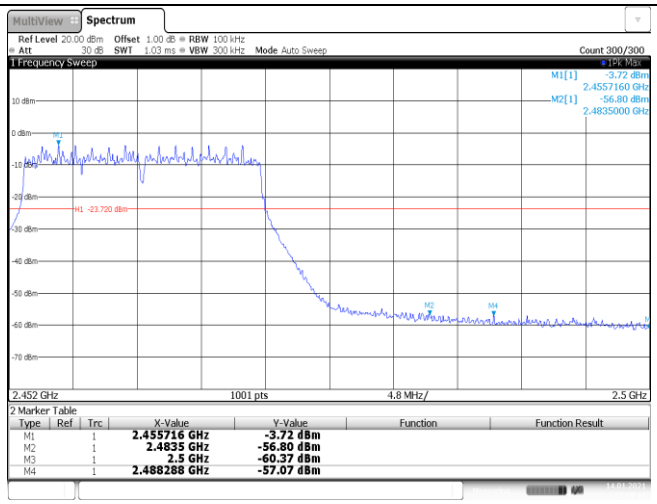
11b	
11g	

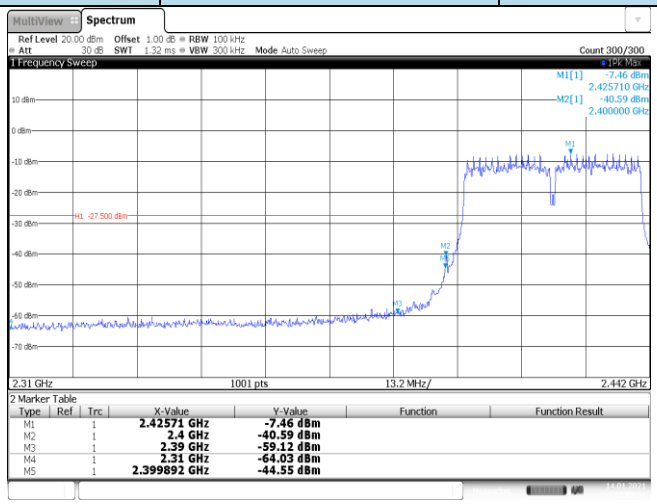
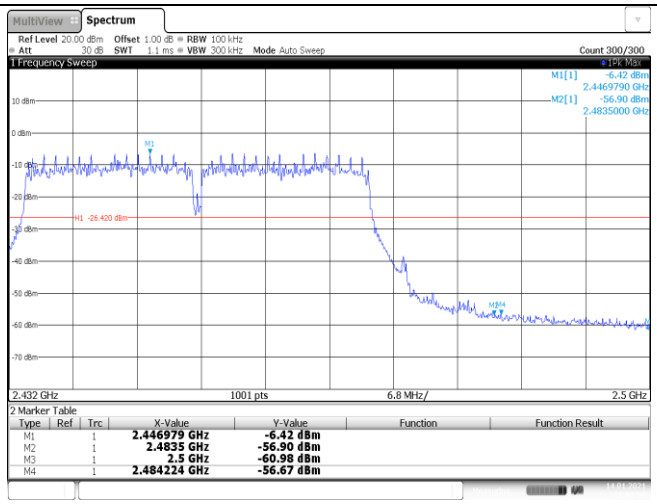
11n20	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz SGL TRG:VID 1 Zero Span 1Pk Clrw M1[1] -17.61 dBm -14.98 µs D1[1] 12.82 dB 225.03 µs CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 -14.98 µs -17.61 dBm D1 M1 1 225.03 µs 12.82 dB D2 M1 1 361.3 µs -0.12 dB Date: 14.JAN.2021 15:53:58
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] -25.08 dBm -32.48 µs D1[1] 11.39 dB 125.02 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 -32.48 µs -25.08 dBm D1 M1 1 125.02 µs 11.39 dB D2 M1 1 190.02 µs 0.89 dB Date: 14.JAN.2021 16:07:00

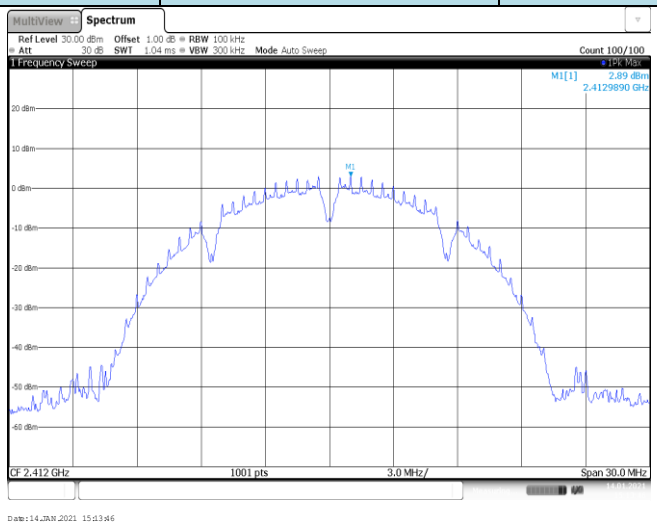
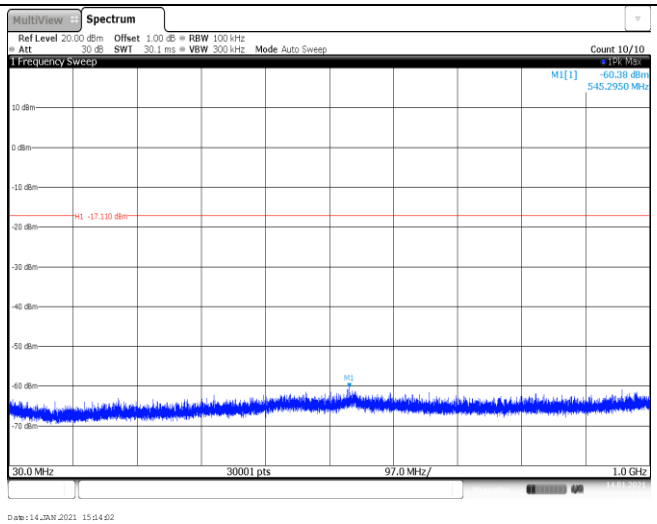
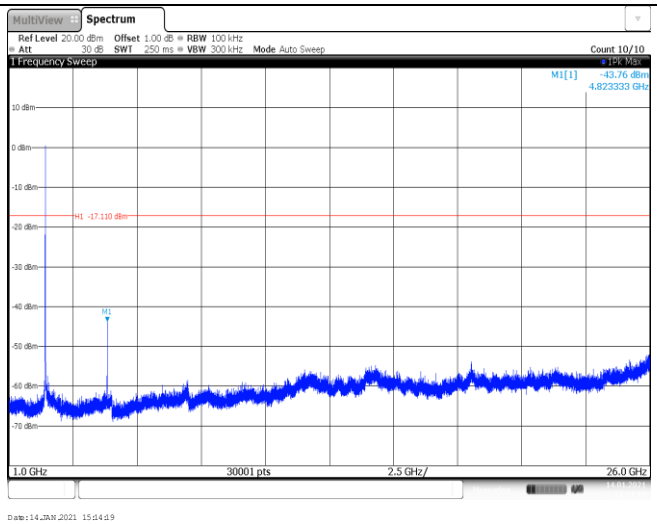
Appendix F：Band edge and Spurious Emissions (conducted)

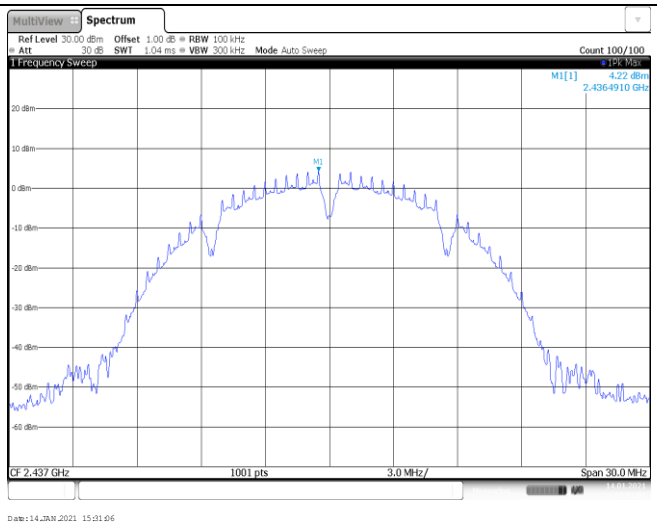
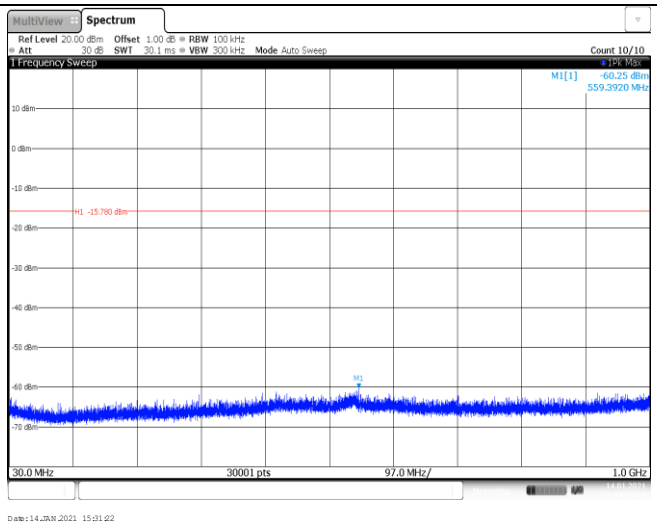
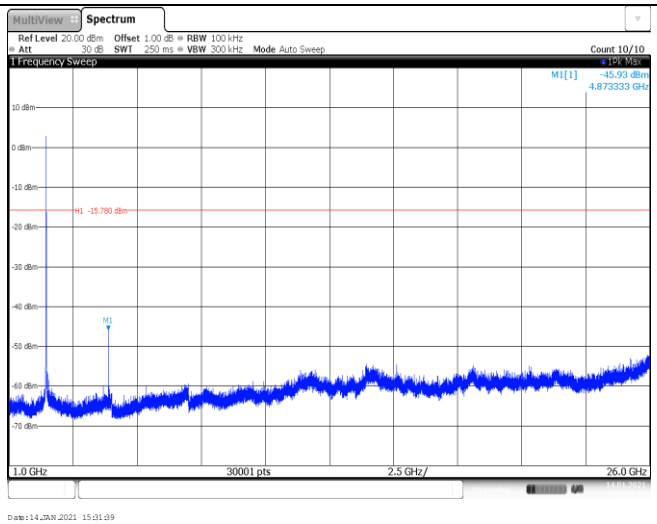
Test Item:	Bandedge	Type:	802.11 b
CH01	
CH11	

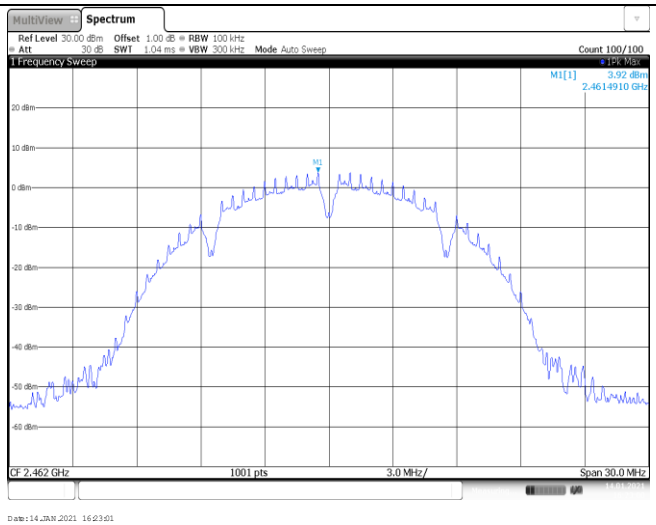
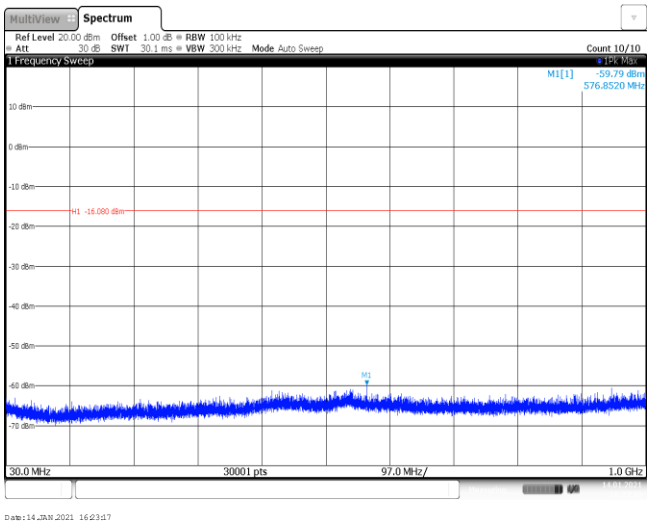
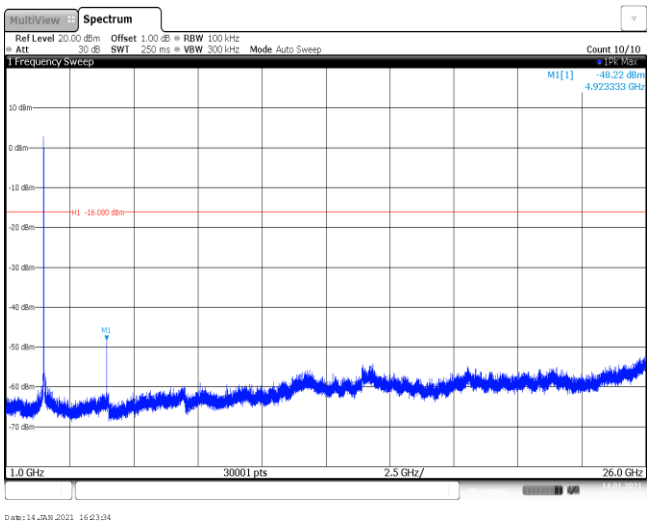
Test Item:	Bandedge	Type:	802.11 g
CH01	
CH11	

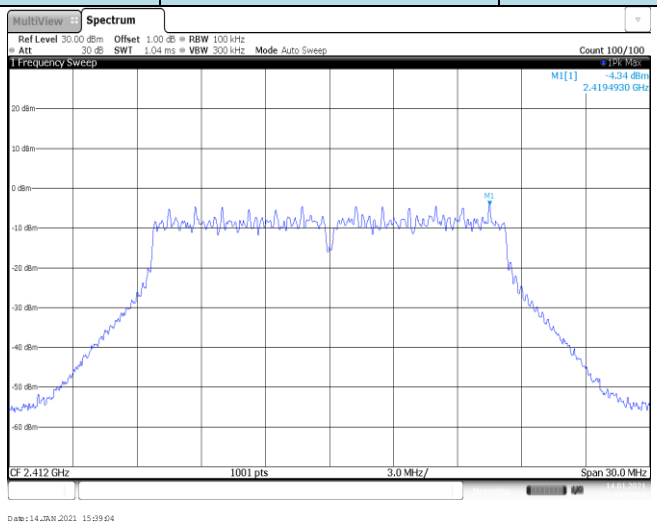
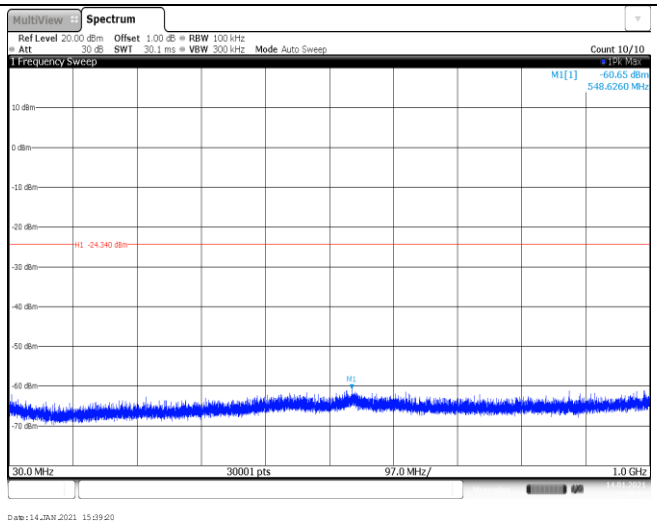
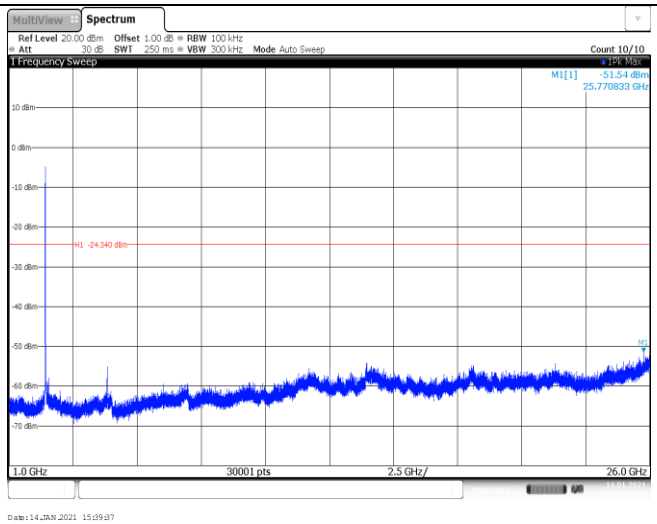
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

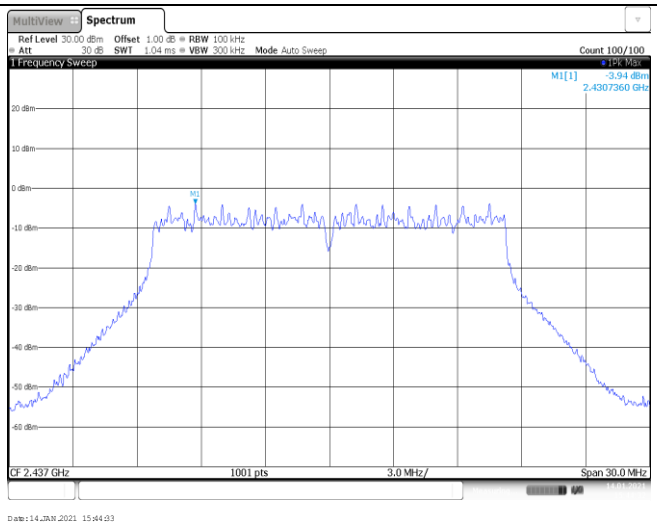
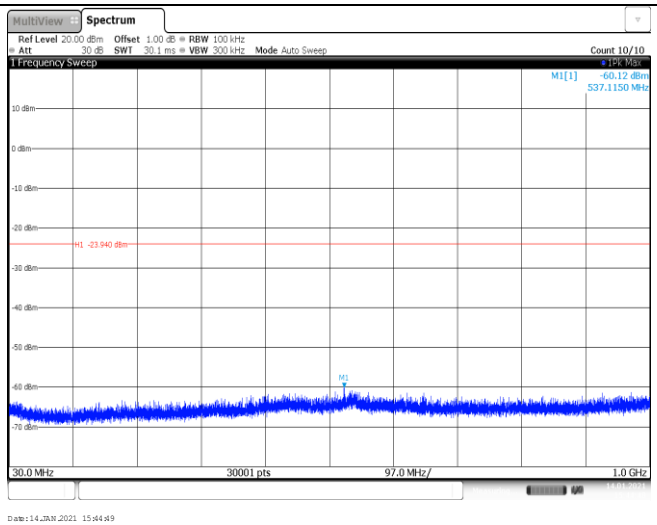
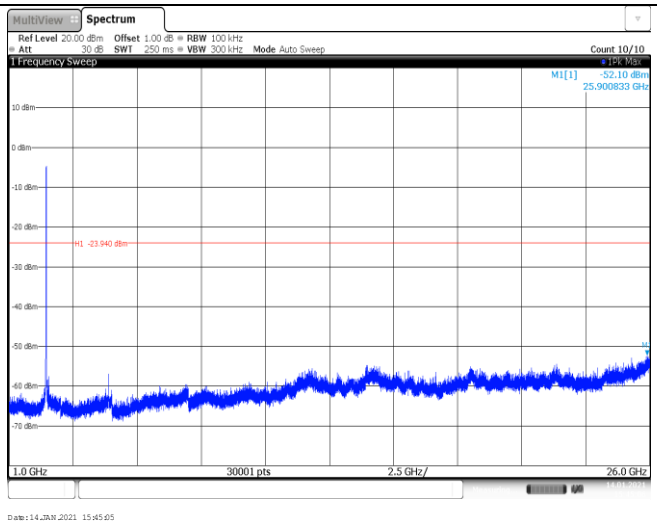
Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

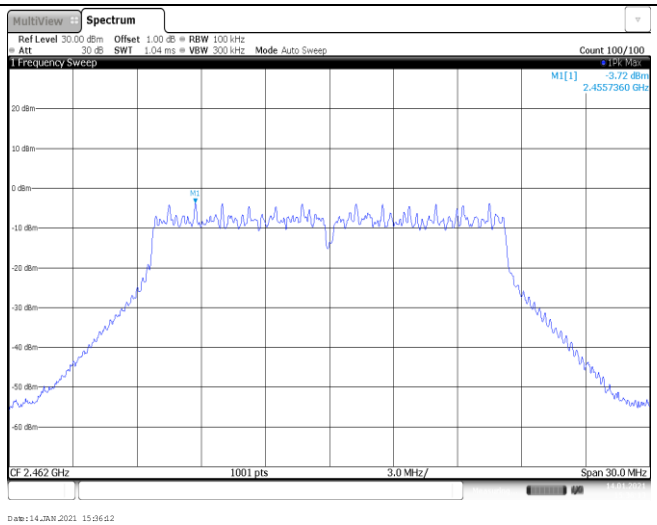
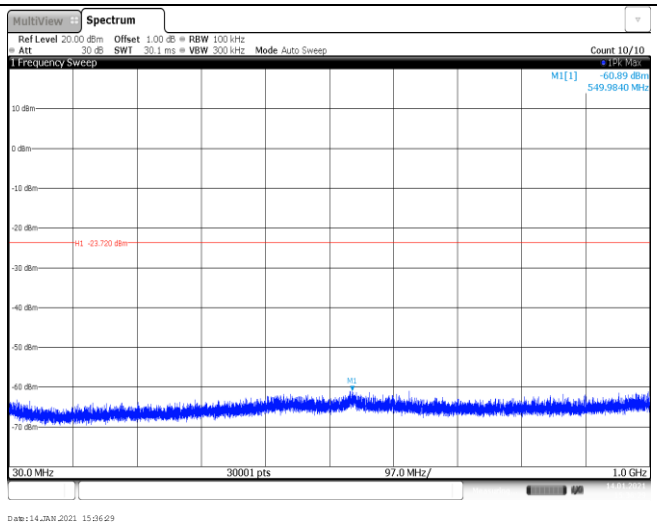
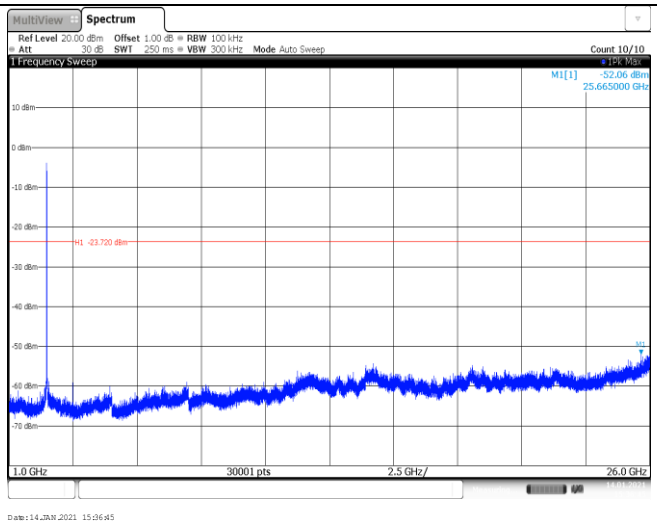
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

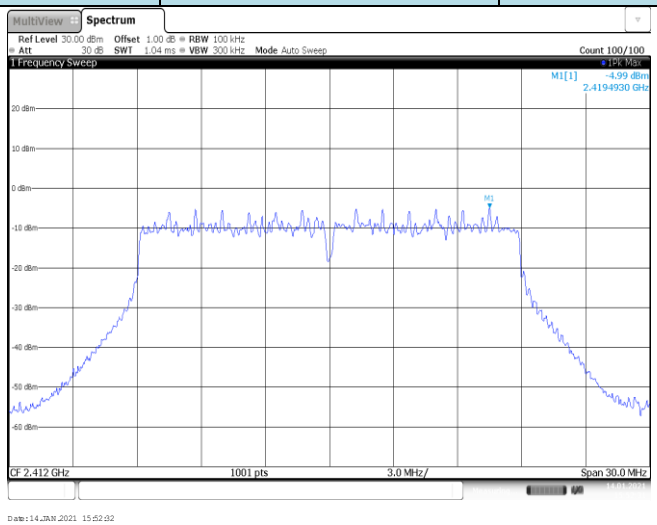
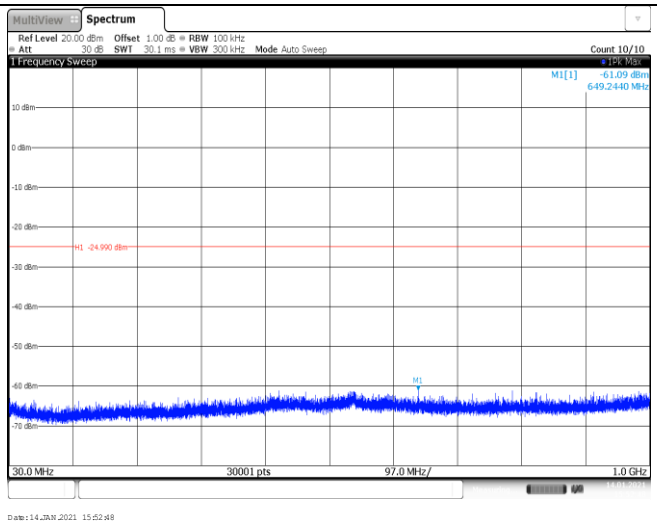
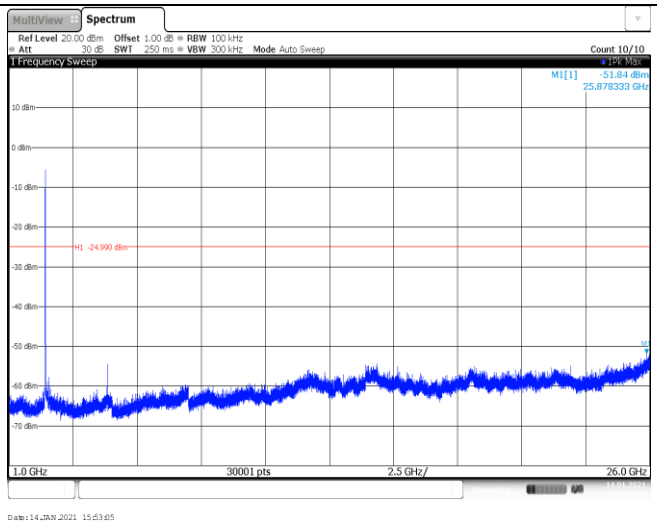
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

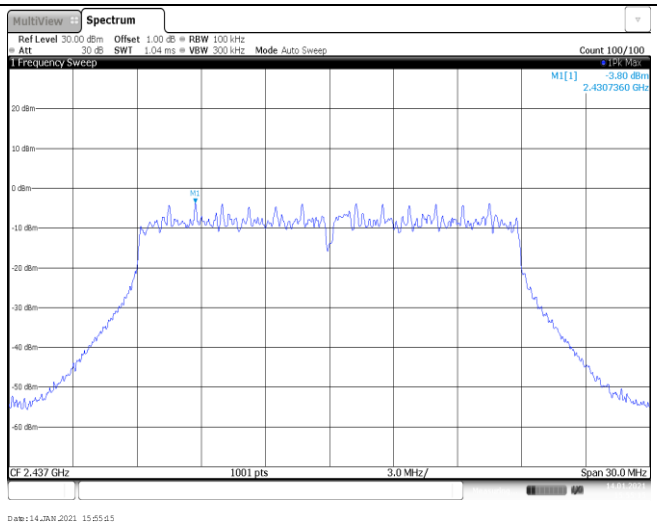
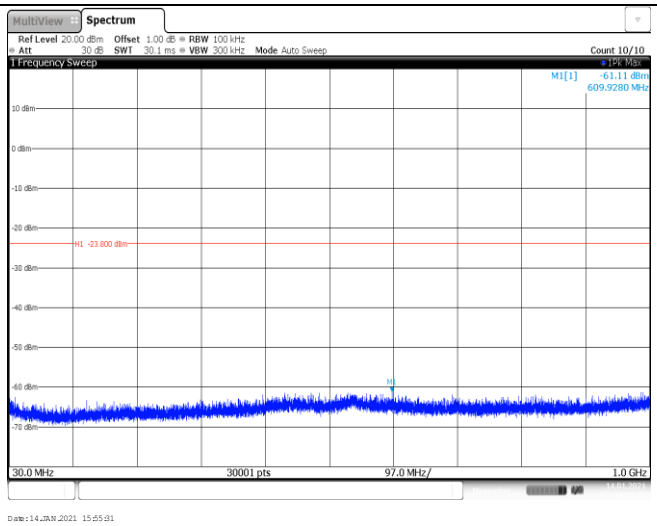
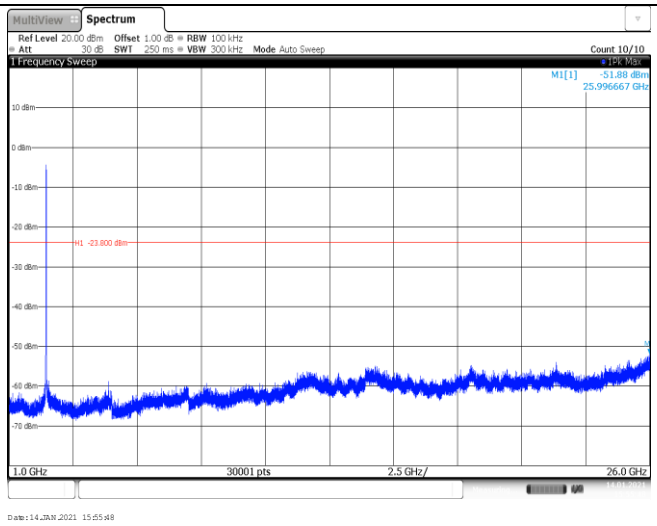
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

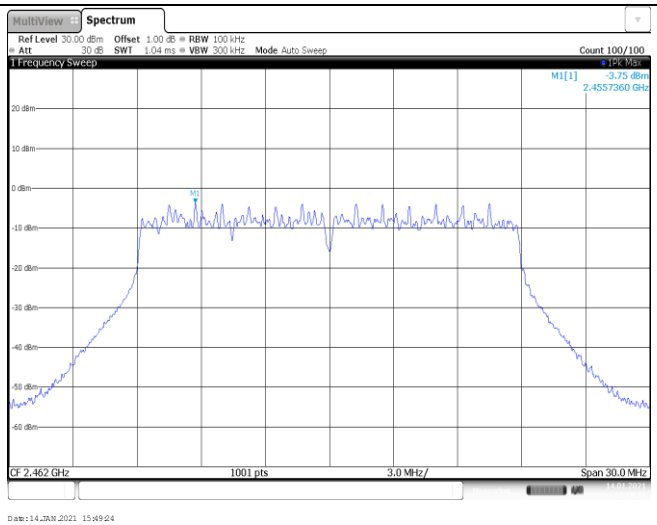
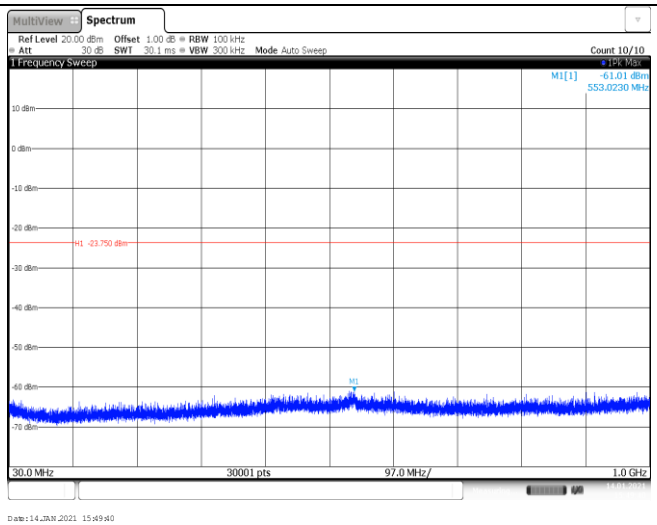
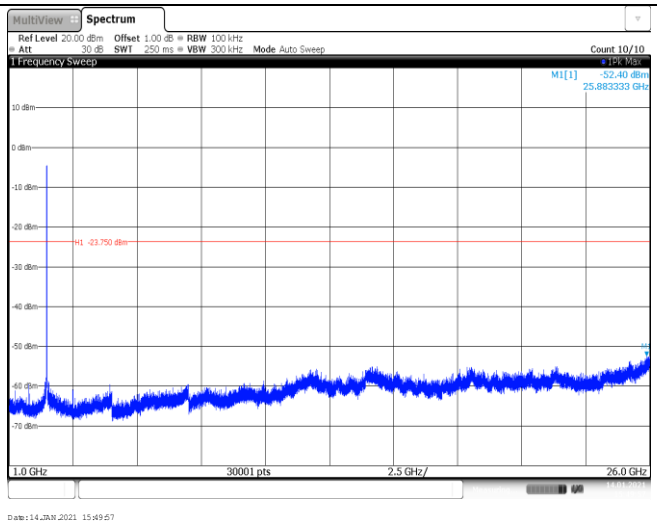
Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

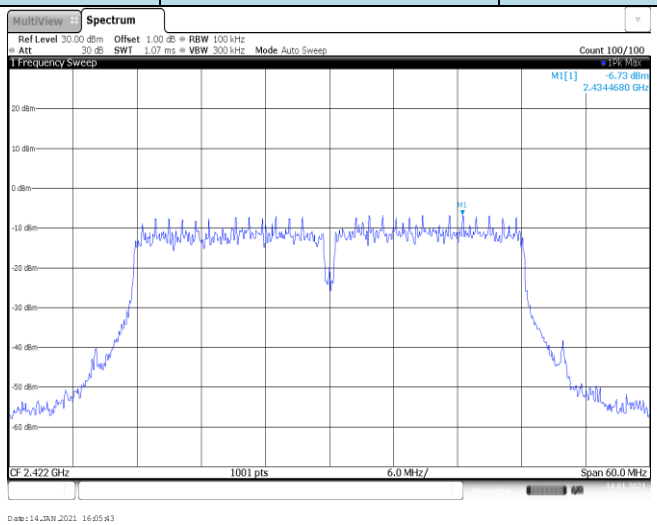
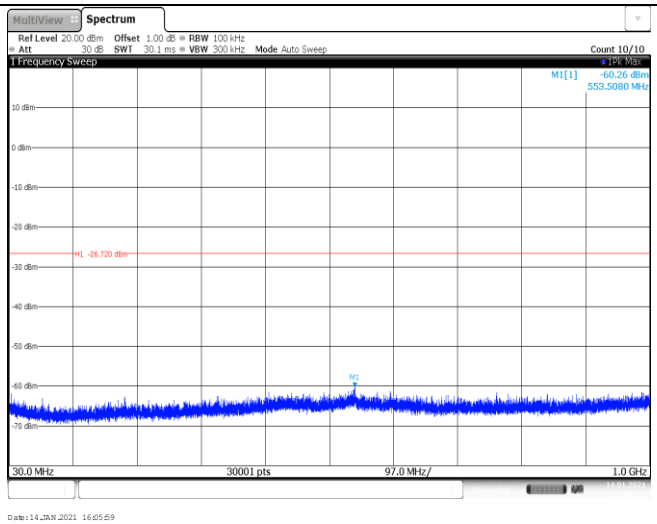
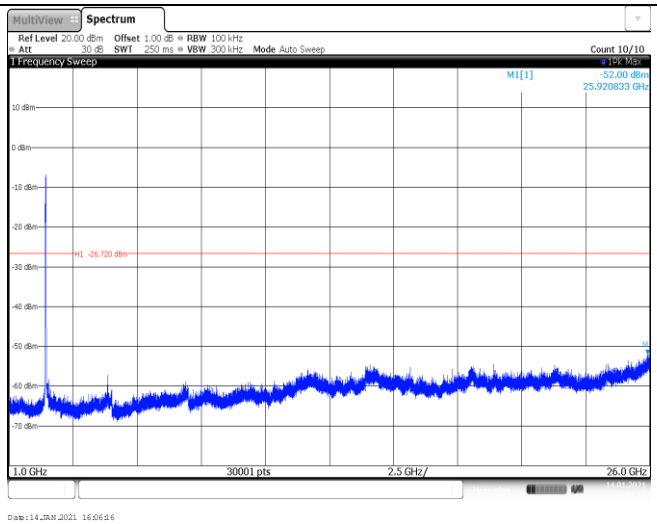
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

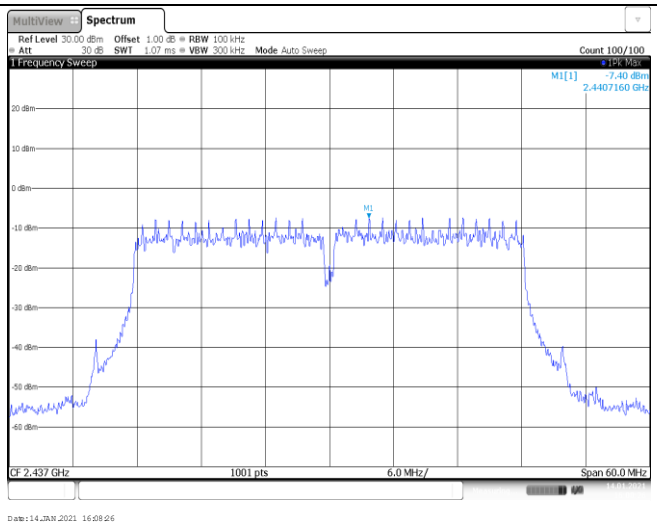
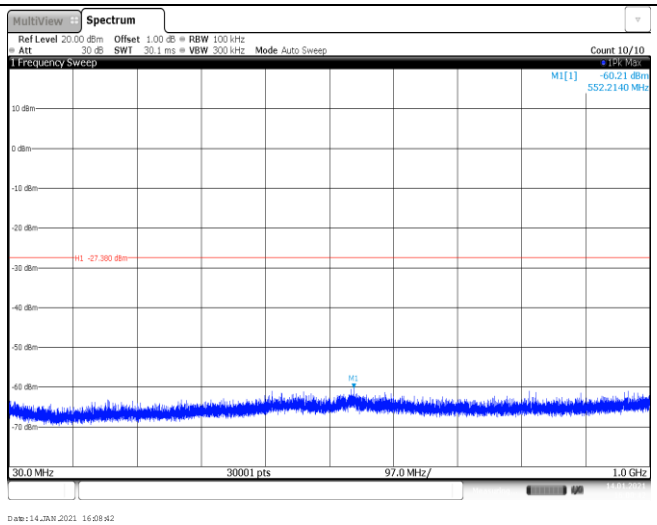
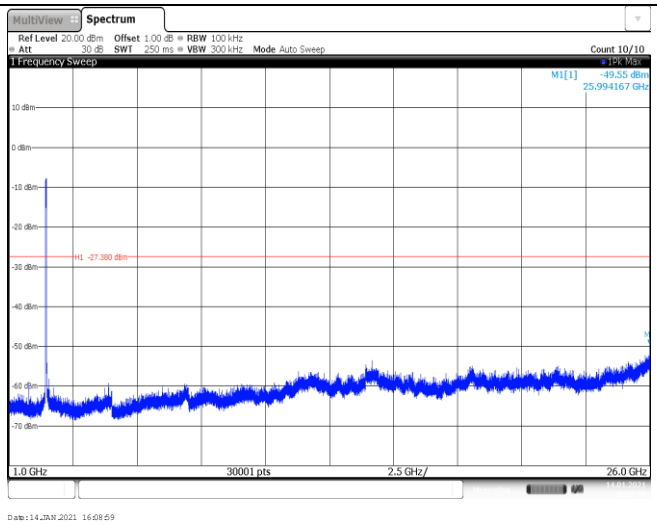
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

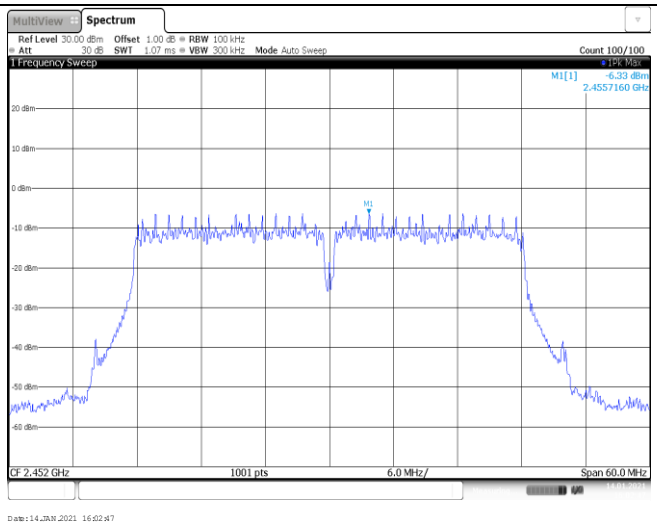
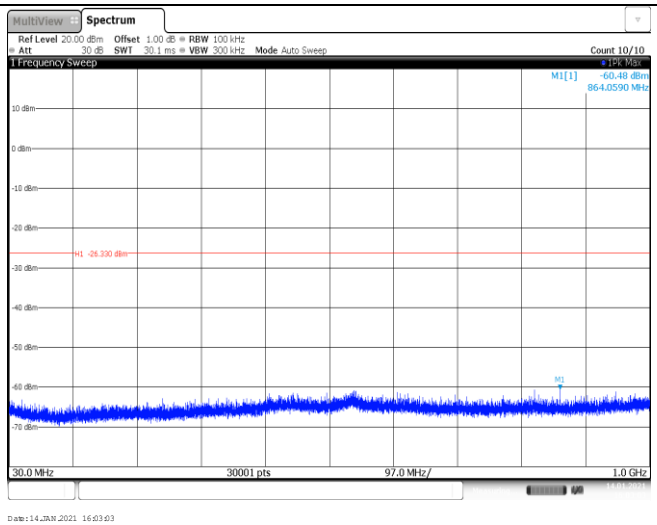
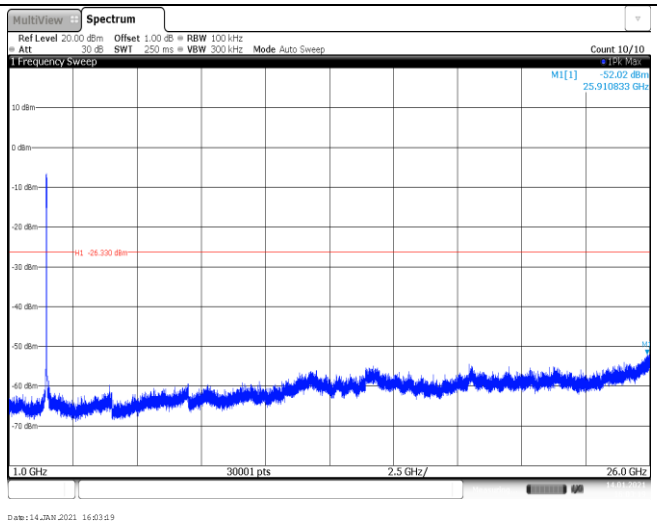
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

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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