APPENDIX REPORT

Project No.	SHT2309011206EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT23090112001	Model No.	TM2210-H5
Start test date	2023/10/23	Finish date	2023/10/24
Temperature	24.5℃	Humidity	46%
Test Engineer		Auditor	

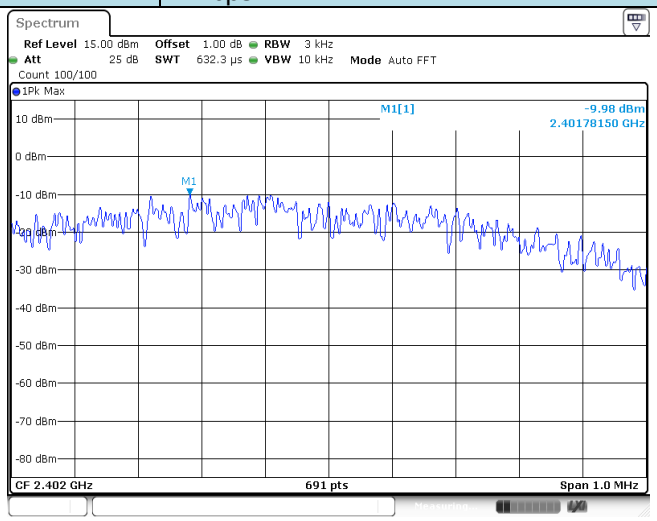
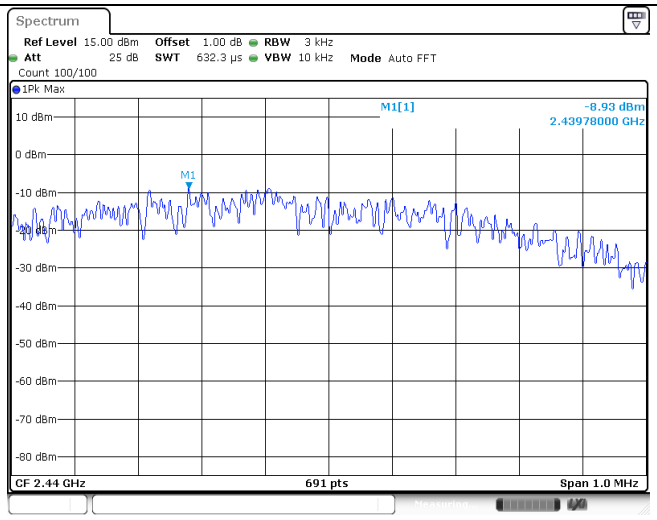
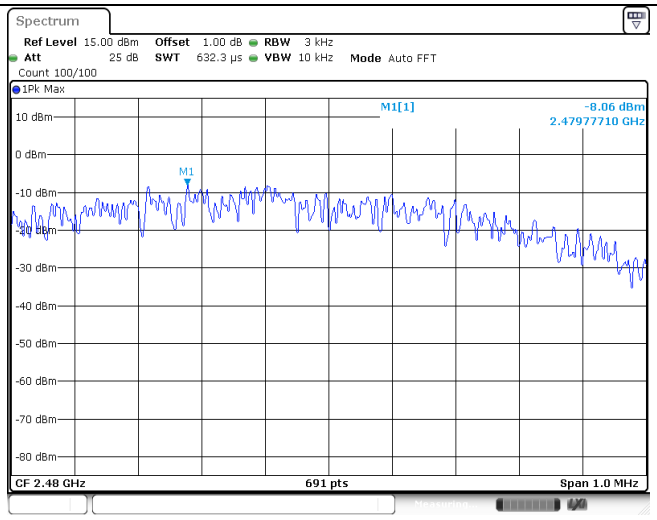
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

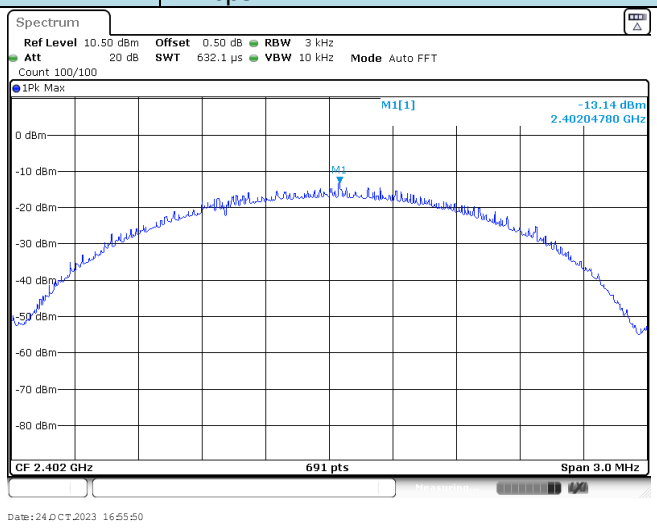
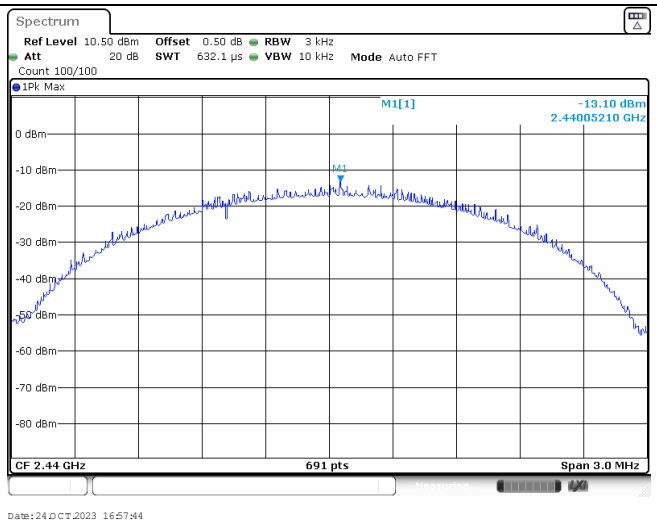
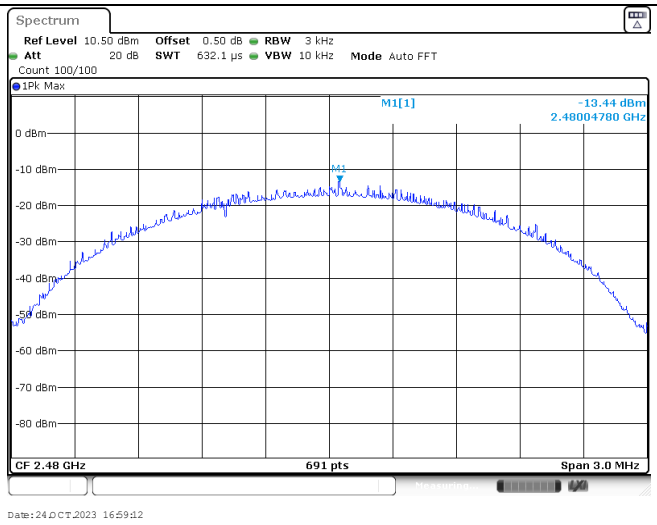
Appendix A：Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Antenna Gain (dBi)	Maximum e.r.i.p. (dBm)	EIRP Limit (dBm)	Result
1Mbps	00	5.86	5.85	≤ 30.00	2.00	7.86	≤ 36.00	Pass
	19	6.89	6.87		2.00	8.89		
	39	7.67	7.64		2.00	9.67		
2Mbps	00	6.42	6.41	≤ 30.00	2.00	8.42	≤ 36.00	Pass
	19	6.49	6.48		2.00	8.49		
	39	6.25	6.23		2.00	8.25		

Appendix B：Power Spectral Density

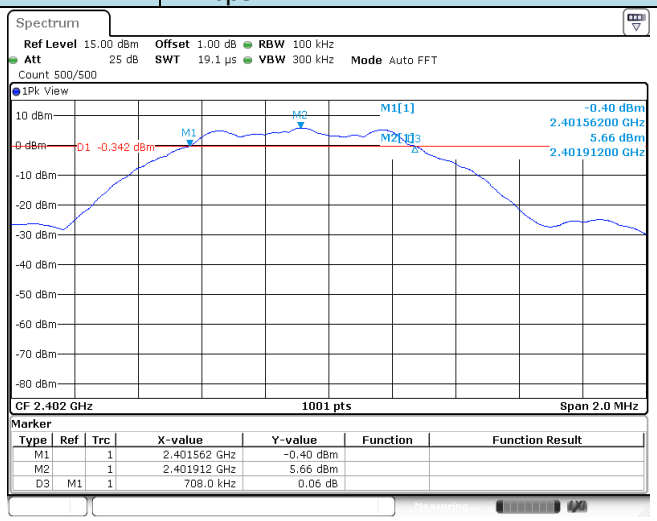
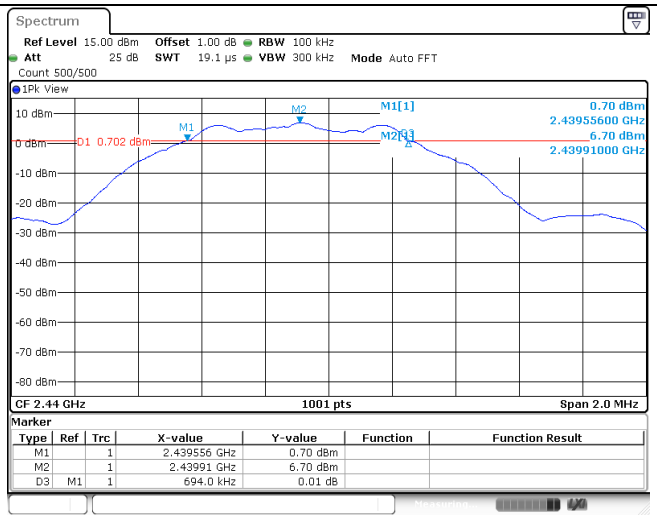
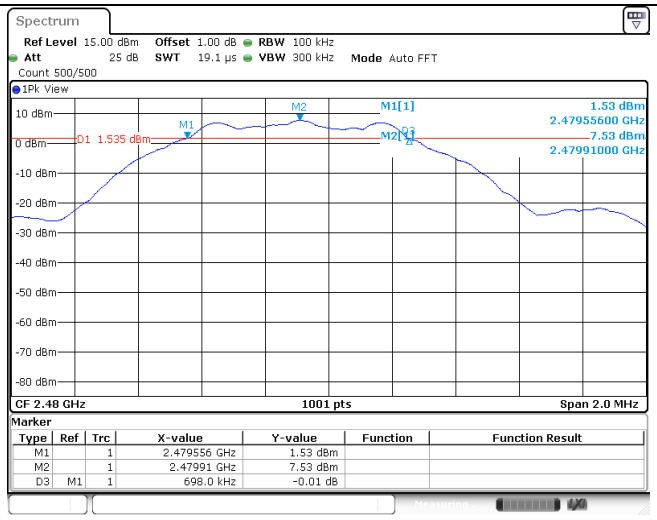
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-9.98	≤8.00	Pass
	19	-8.93		
	39	-8.06		
2Mbps	00	-13.14	≤8.00	Pass
	19	-13.10		
	39	-13.44		

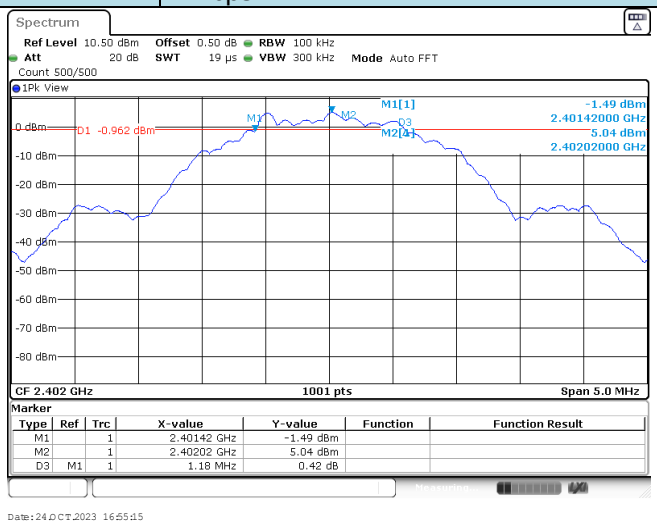
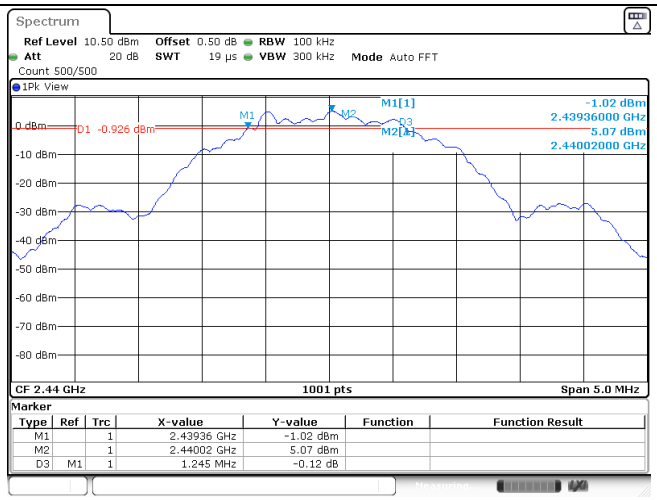
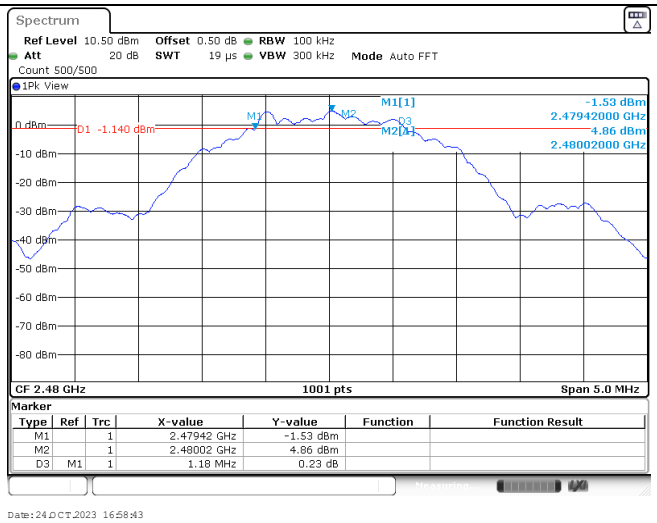
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix C：6dB bandwidth

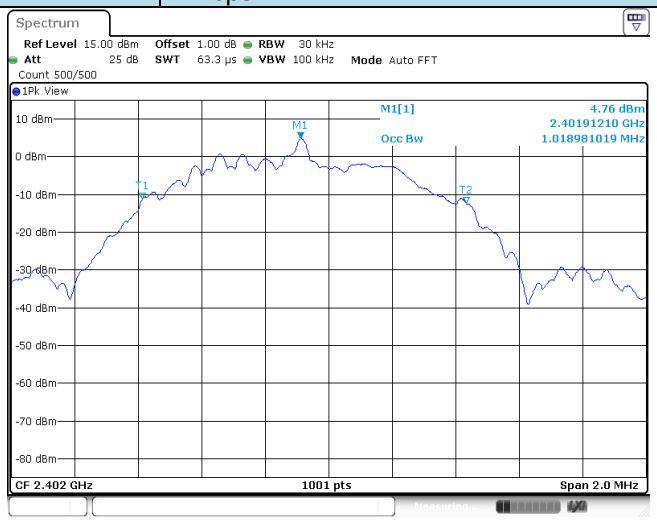
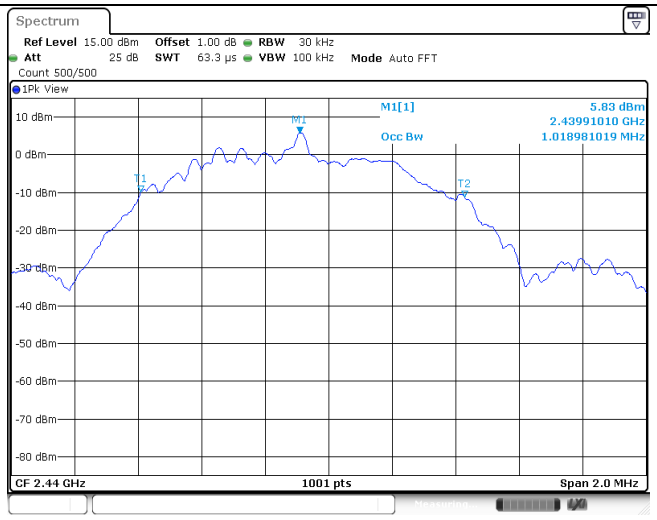
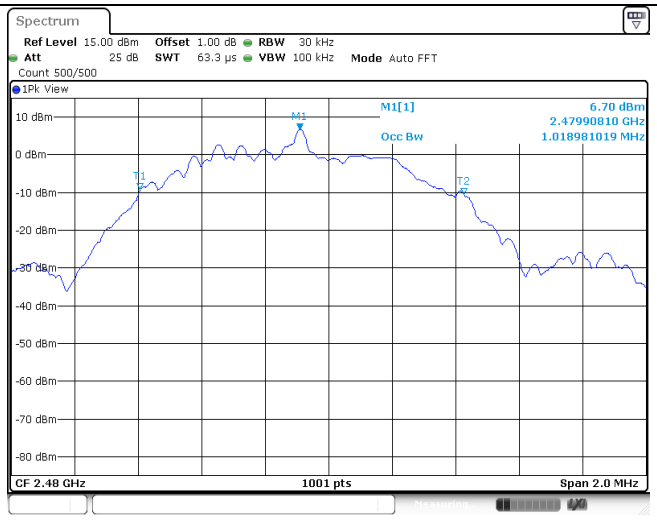
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	710.00	≥500	Pass
	19	690.00		
	39	700.00		
2Mbps	00	1180.00	≥500	Pass
	19	1245.00		
	39	1180.00		

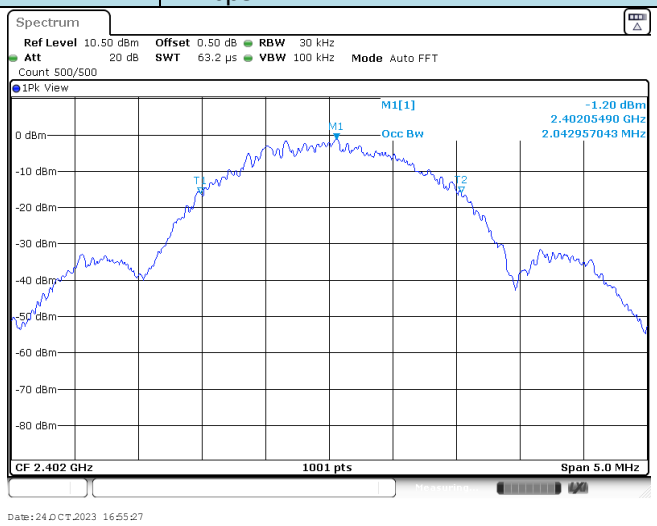
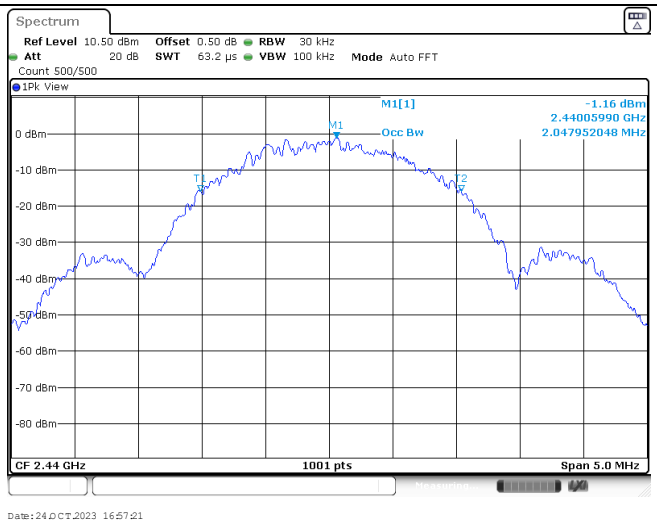
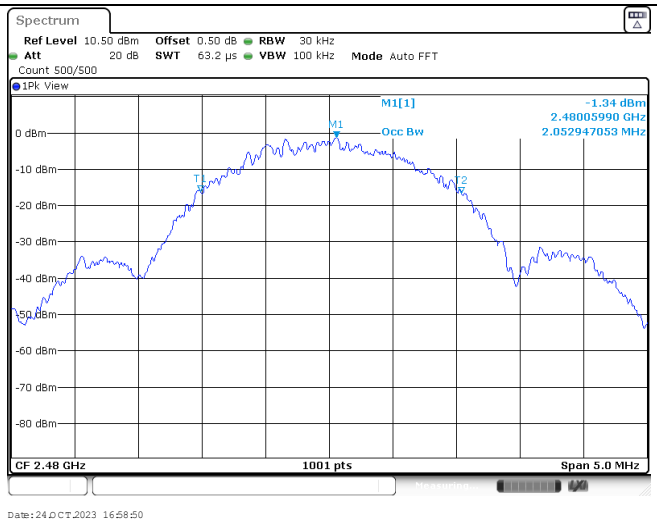
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix D：99% Occupied Bandwidth

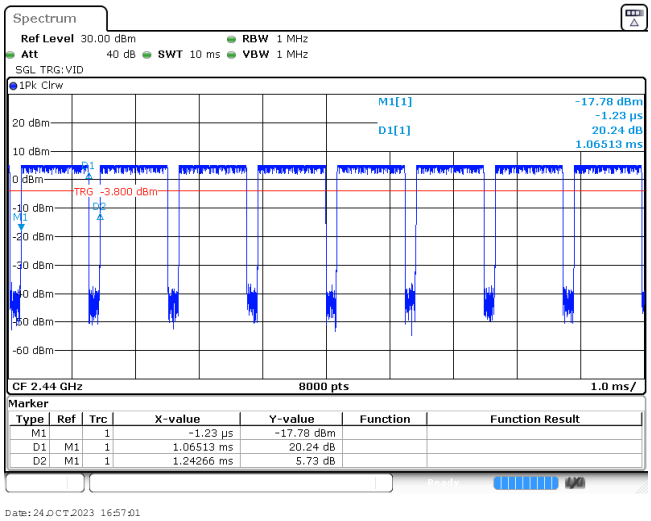
Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.02	-	Pass
	19	1.02		
	39	1.02		
2Mbps	00	2.04	-	Pass
	19	2.05		
	39	2.05		

Test rate:	1Mbps
CH00	
CH19	
CH39	

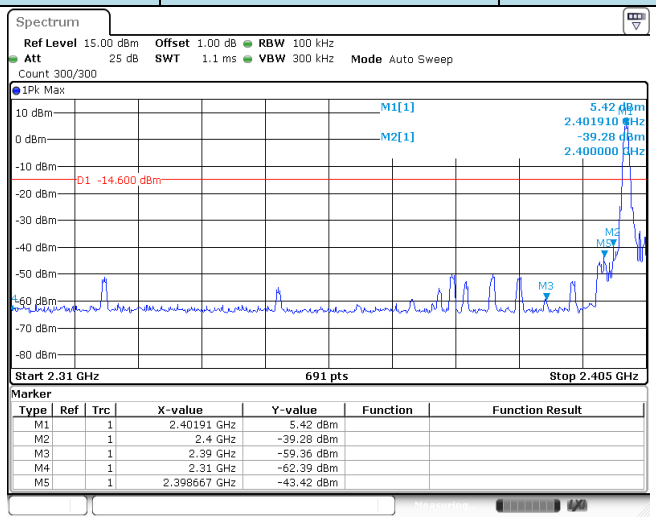
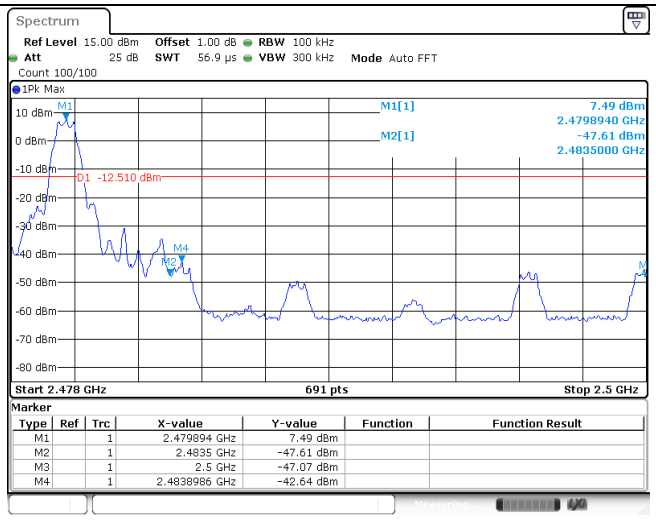
Test rate:	2Mbps
CH00	
CH19	
CH39	

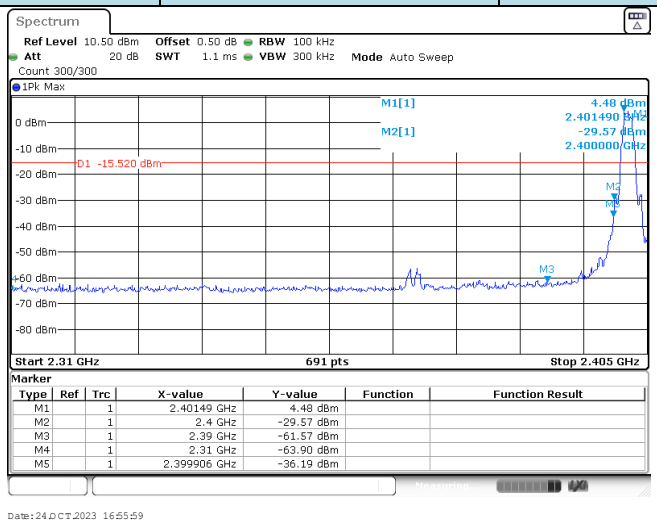
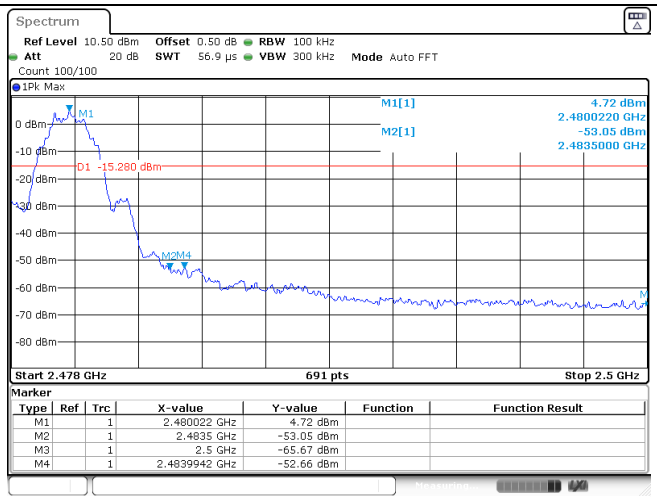
Appendix E：Duty cycle

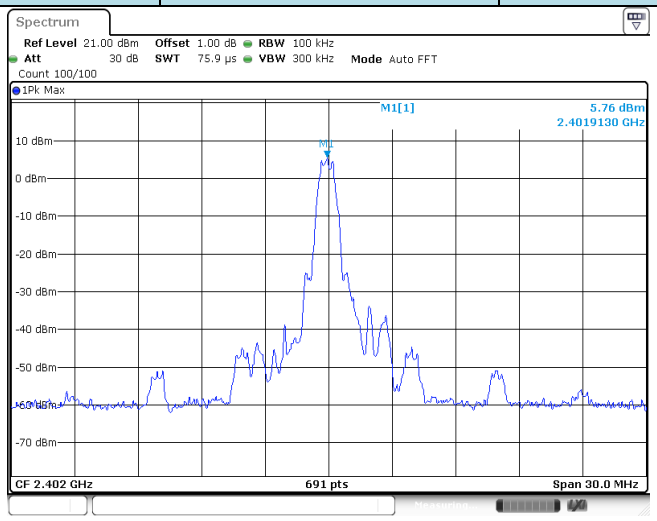
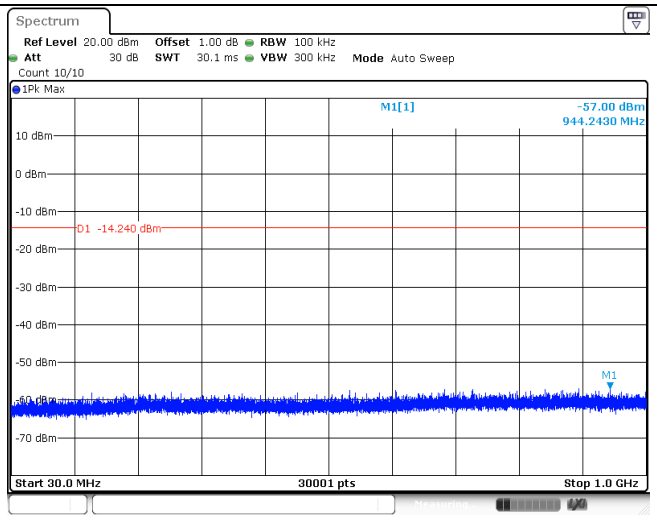
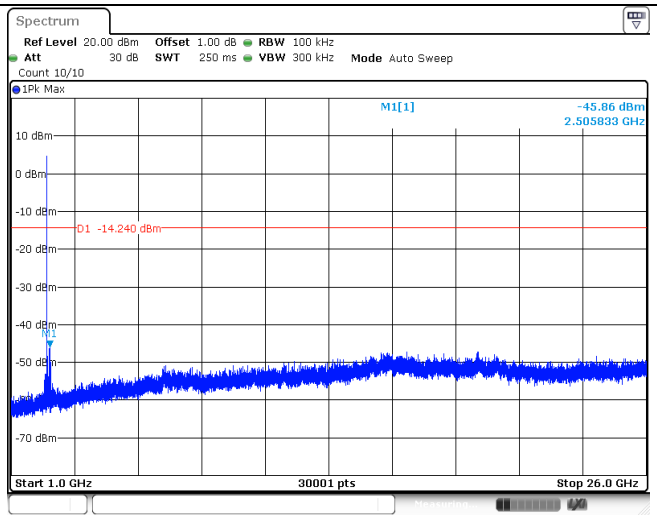
Test Frequency（MHz）	Ton time for single burst (ms)	Tperiod (ms)	Duty cycle	1/Ton time (kHz)
2440	1.07	1.24	0.86	0.93

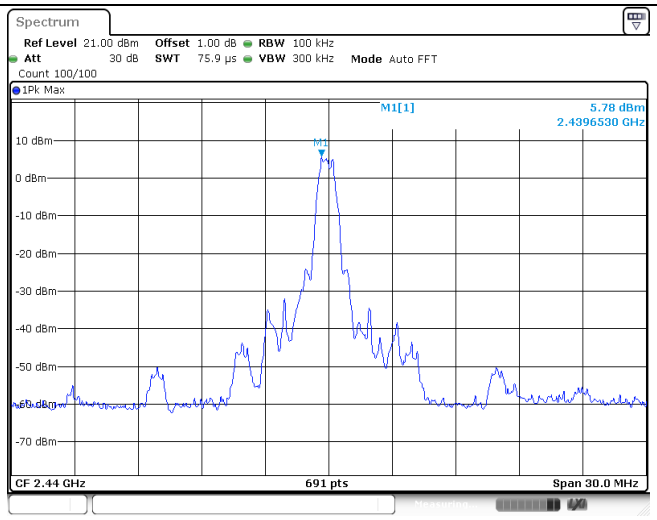
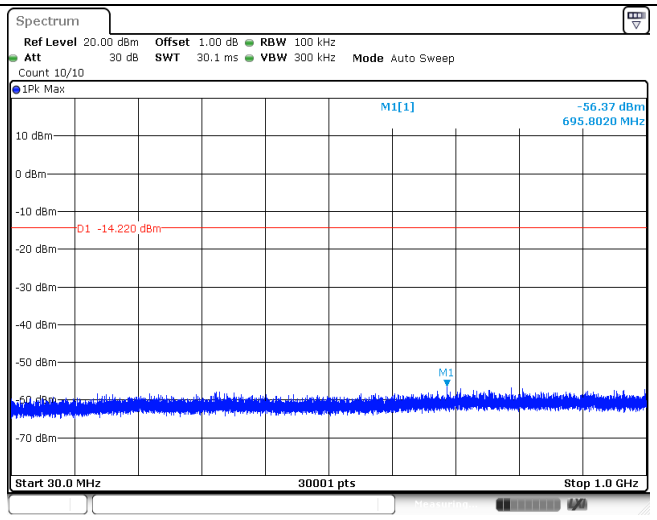
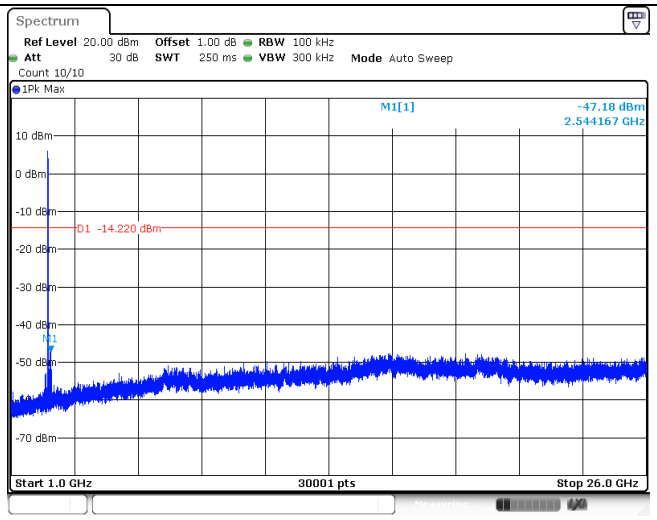


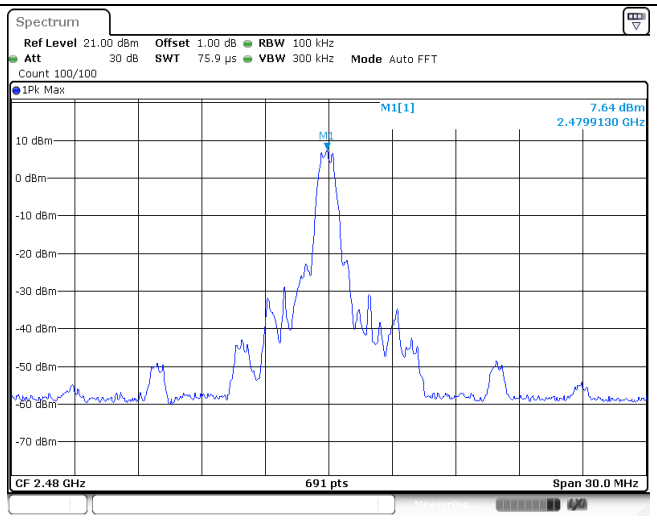
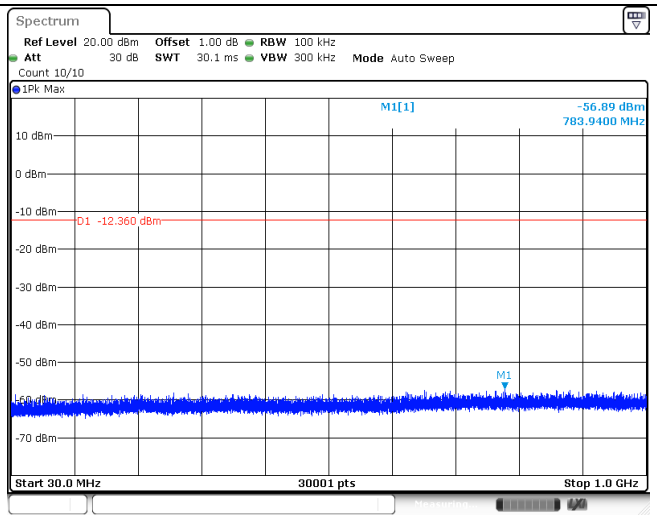
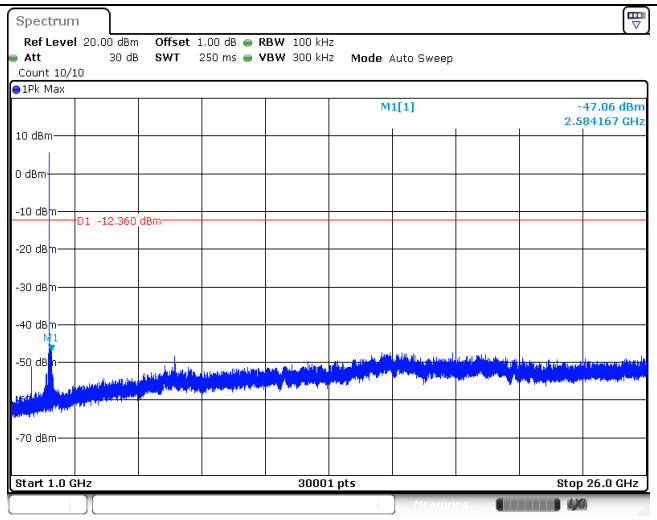
Appendix F：Band edge and Spurious Emissions (conducted)

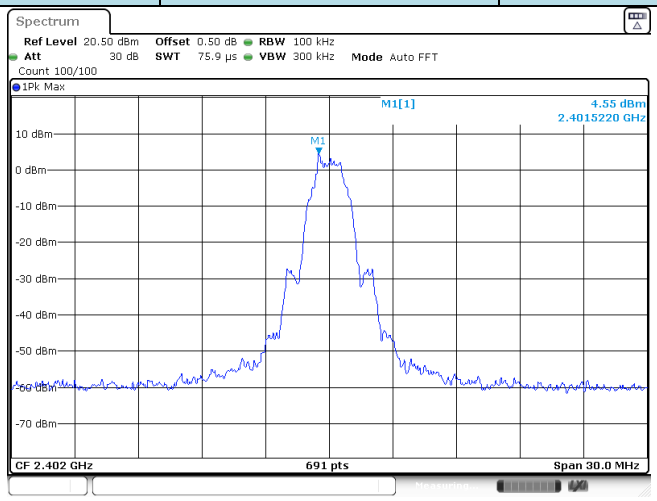
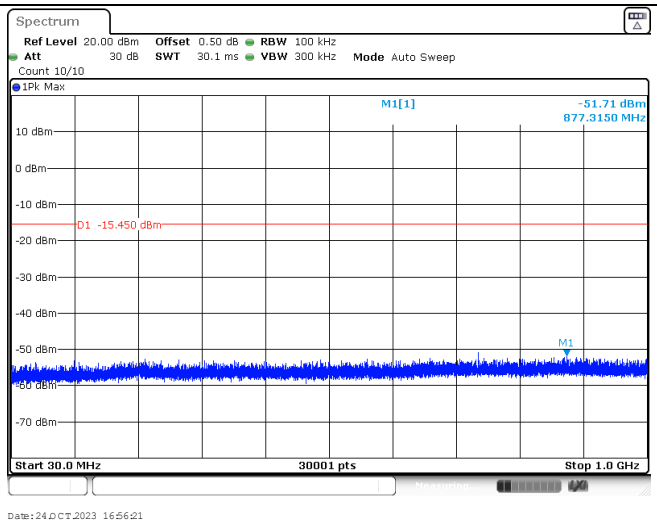
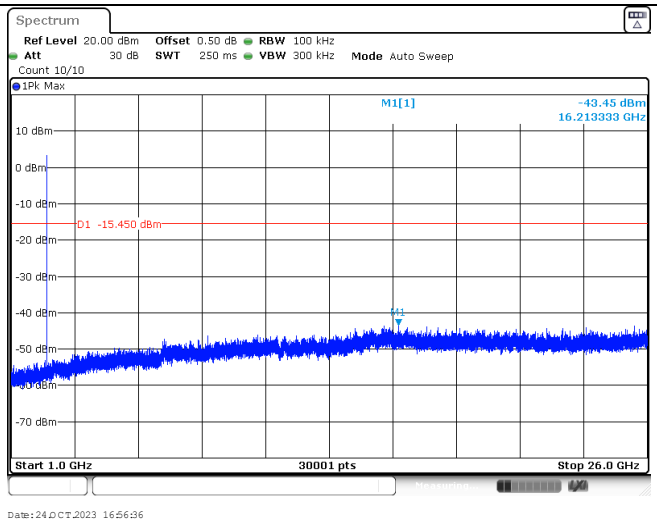
Test Item:	Band edge	Test Rate:	1Mbps
CH00			
CH39			

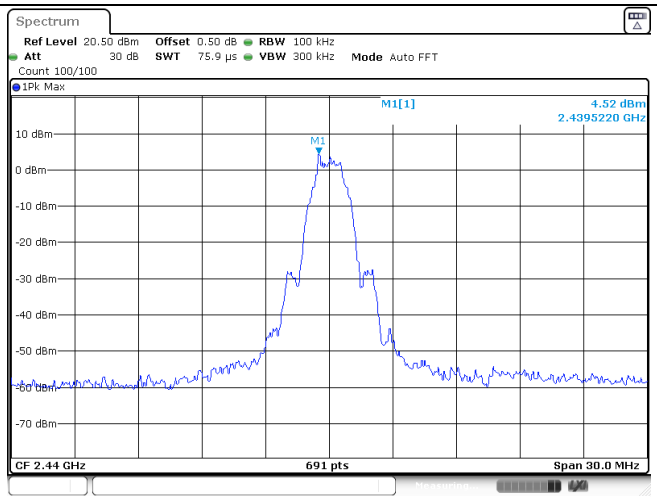
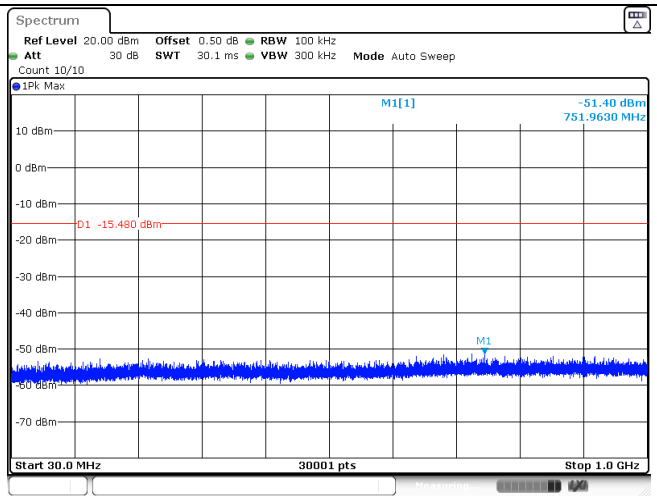
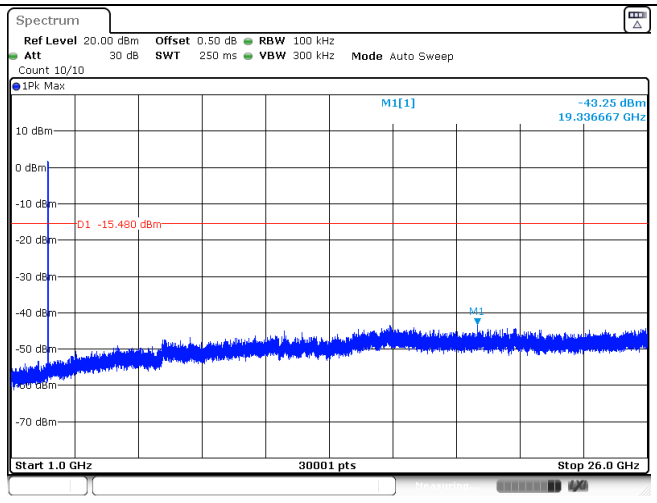
Test Item:	Band edge	Test Rate:	2Mbps
CH00			
CH39			

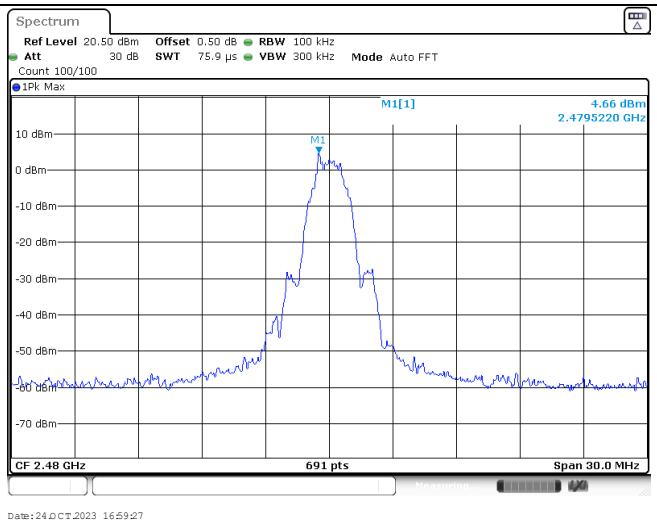
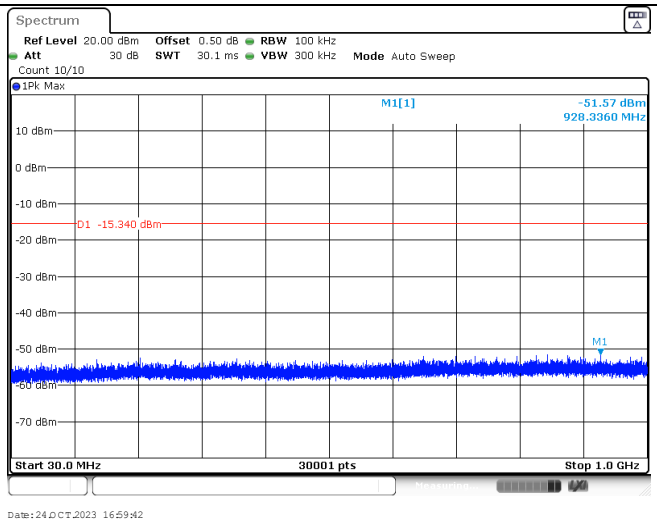
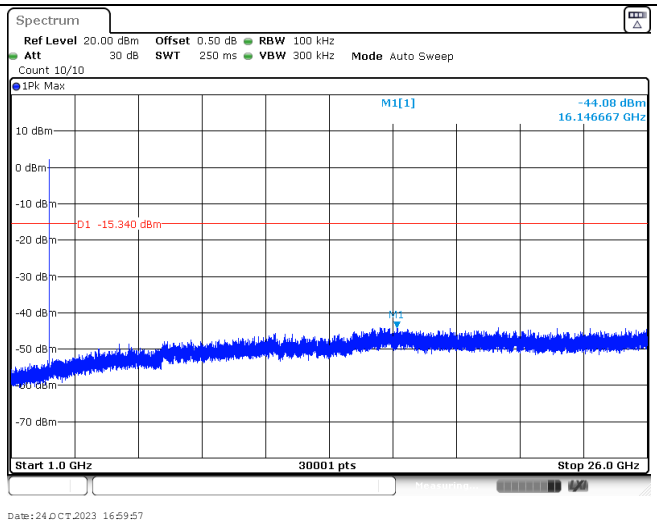
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

Test Item:	SE	Test Rate:	2Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

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