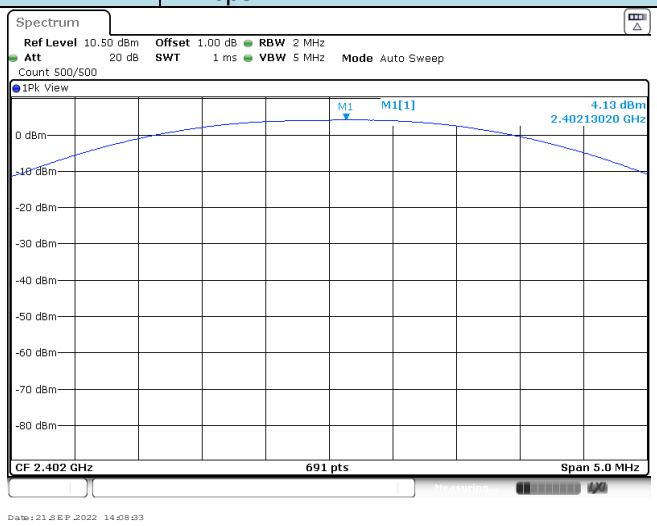
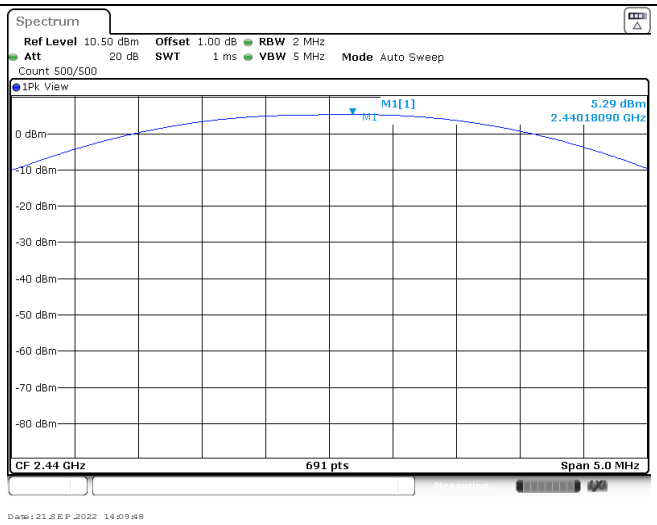
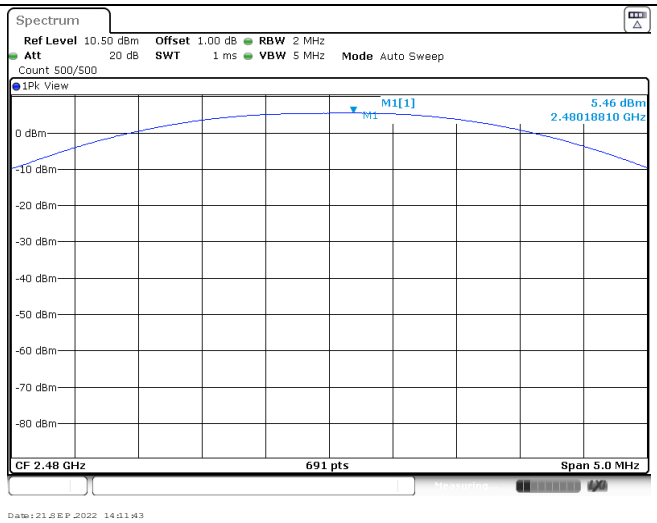
APPENDIX REPORT

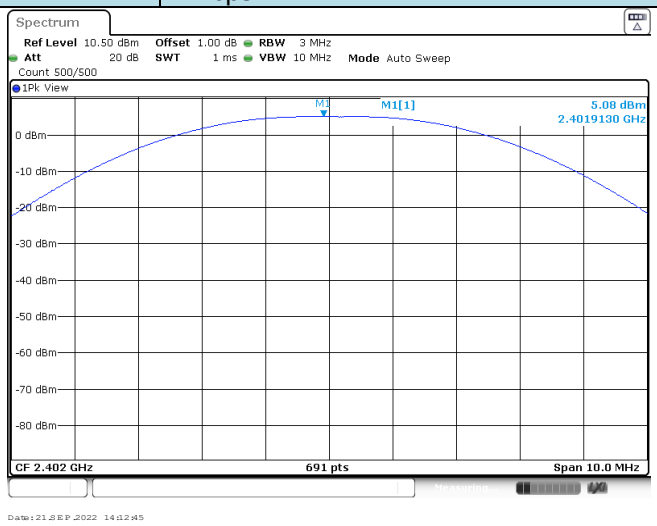
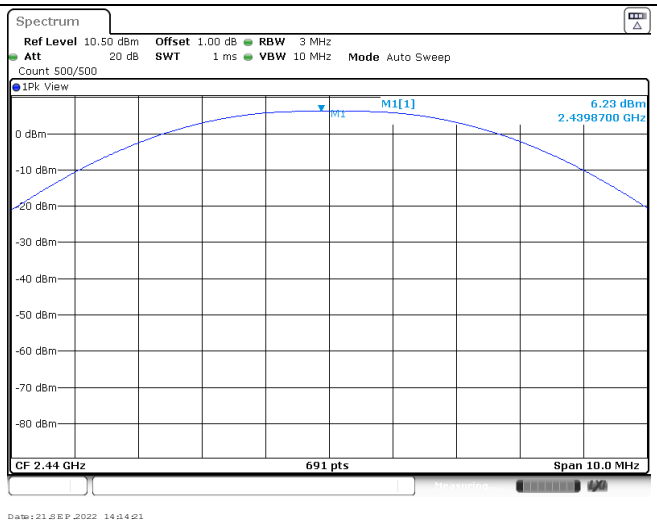
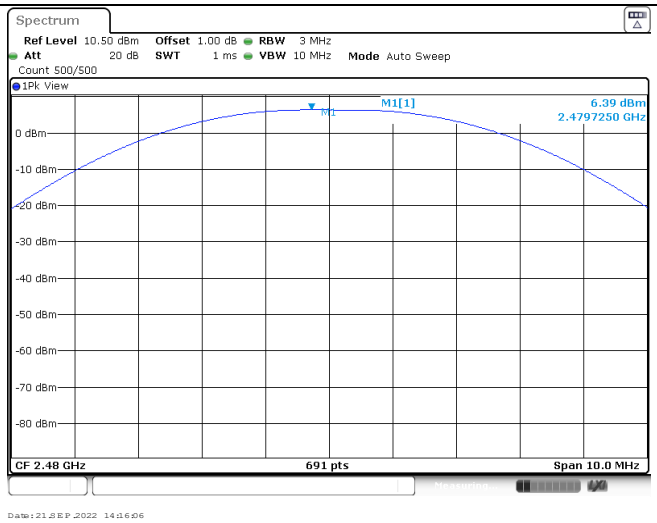
Project No.	SHT2208209602EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22082096001	Model No.	Boom Bike
Start test date	2022-09-21	Finish date	2022-09-22
Temperature	25.9℃	Humidity	31%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhao

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

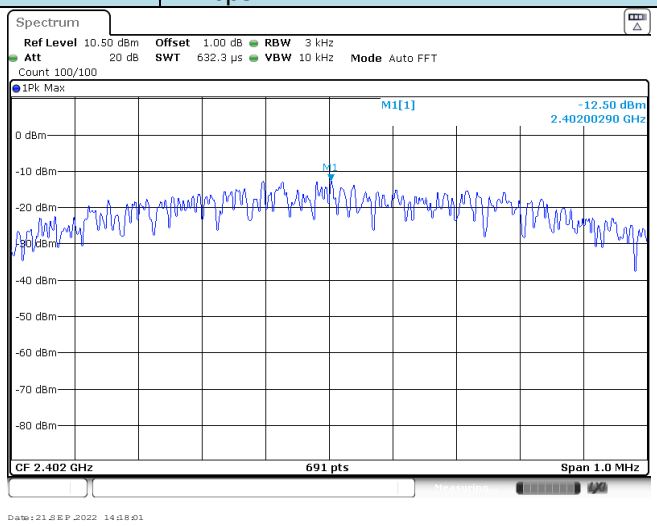
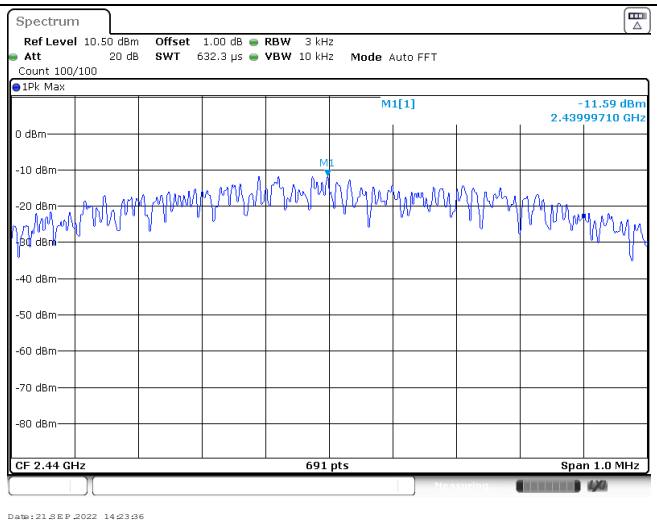
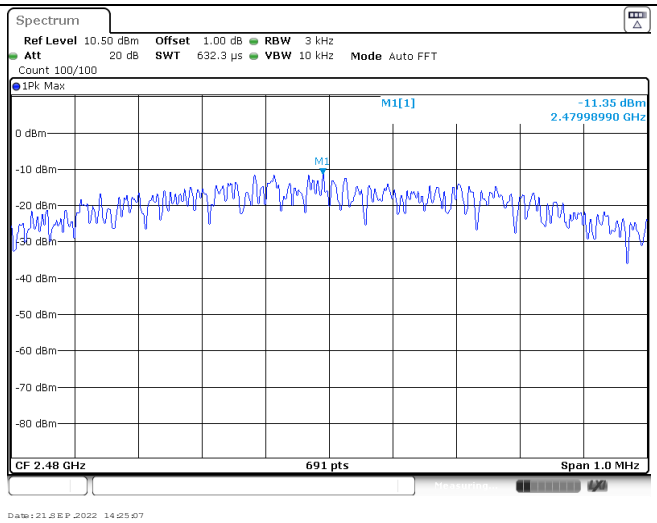
Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	4.13	4.08	≤ 30.00	Pass
	19	5.29	5.24		
	39	5.46	5.43		
2Mbps	00	5.08	5.00	≤ 30.00	Pass
	19	6.23	6.13		
	39	6.39	6.35		

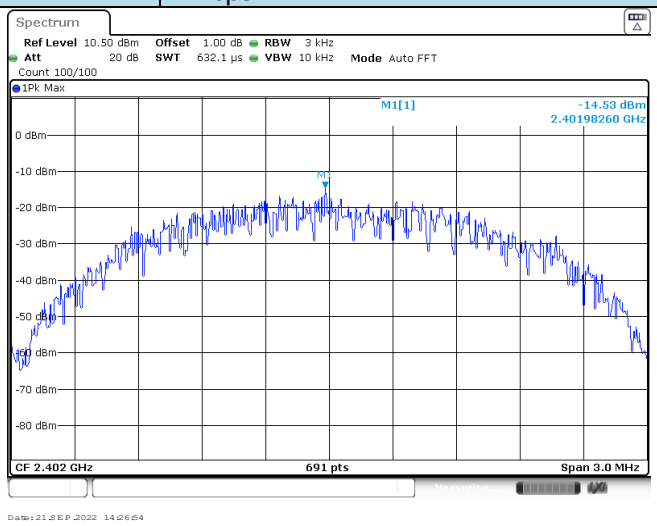
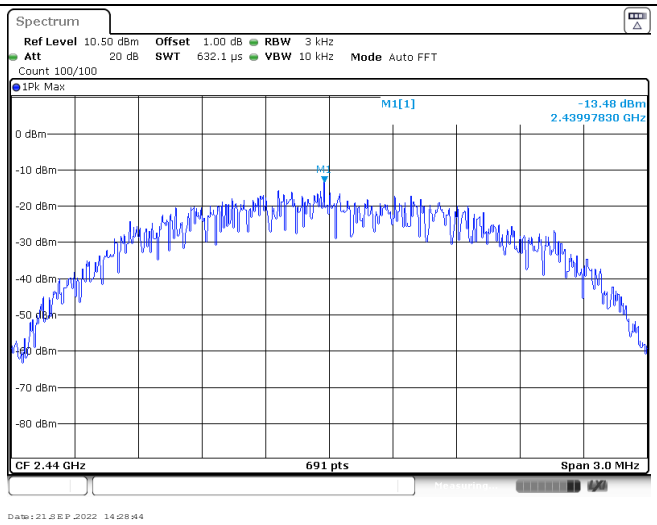
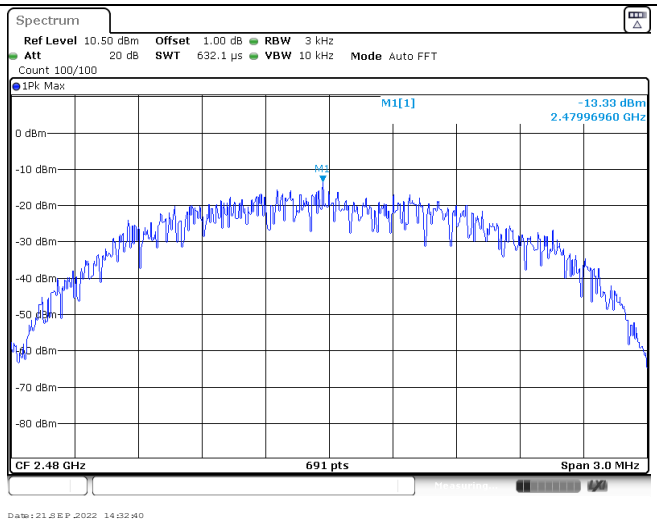
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix B：Power Spectral Density

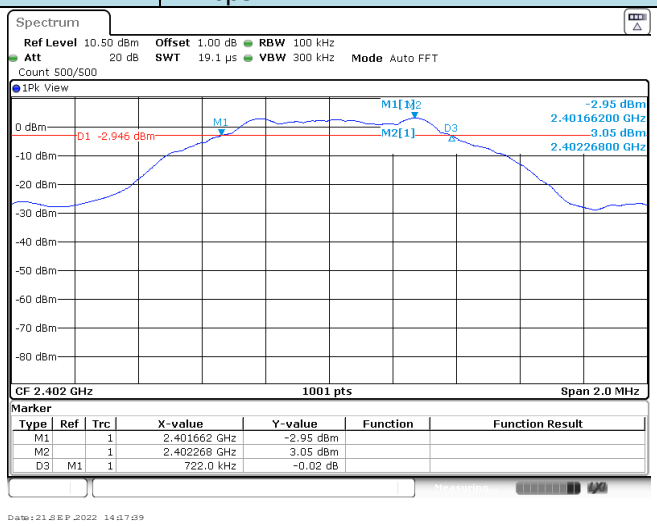
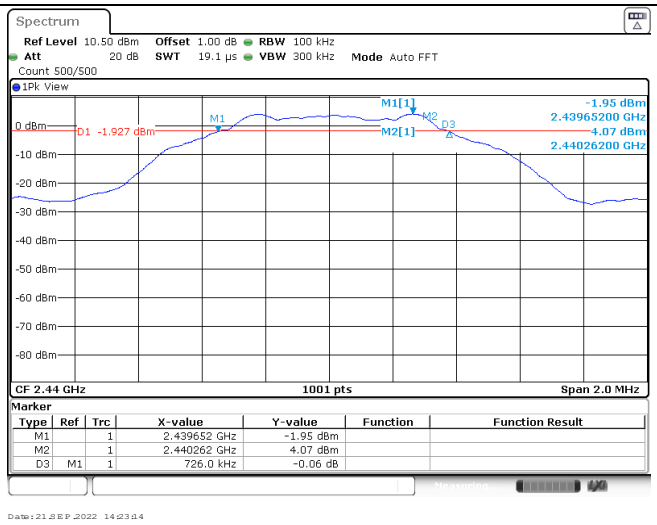
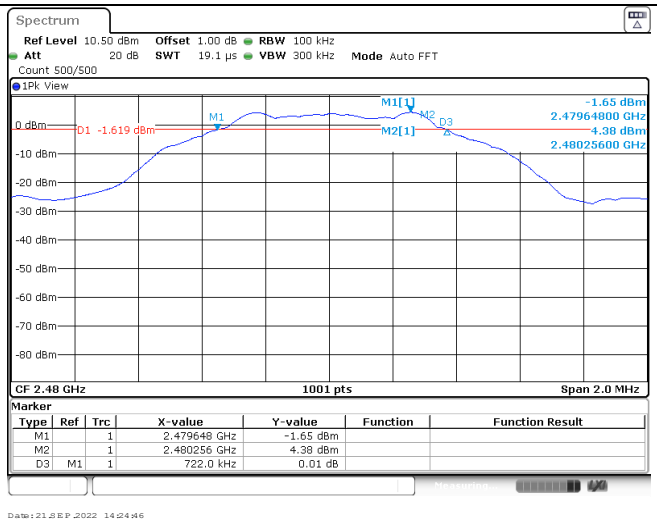
Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-12.50	≤8.00	Pass
	19	-11.59		
	39	-11.35		
2Mbps	00	-14.53	≤8.00	Pass
	19	-13.48		
	39	-13.33		

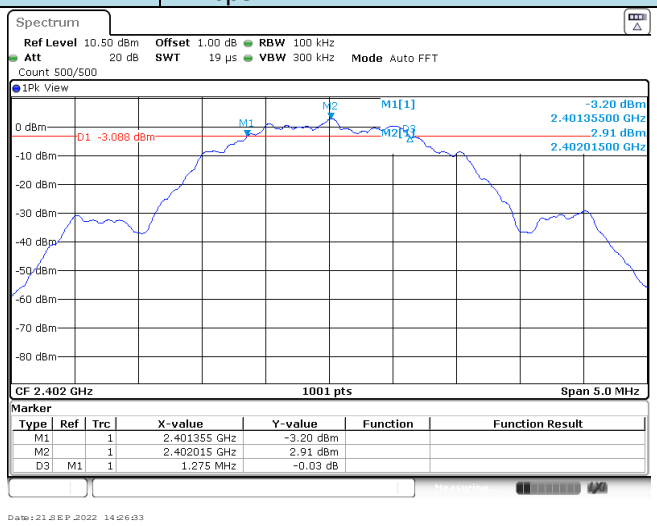
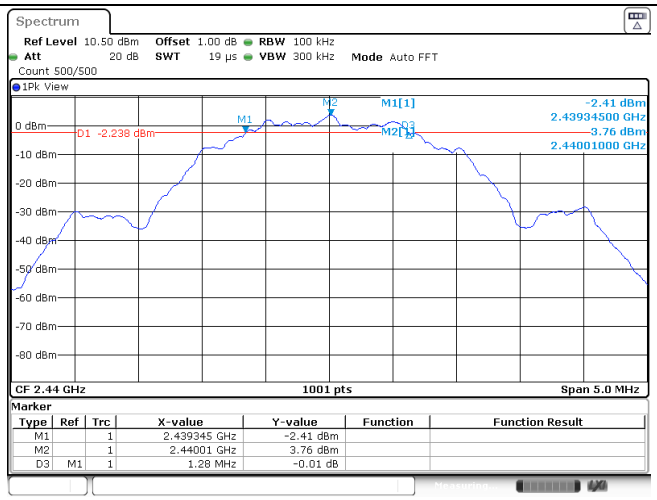
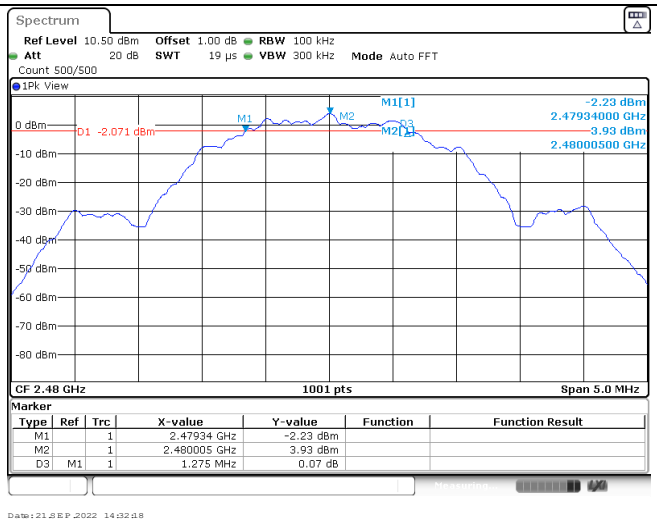
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix C：6dB bandwidth

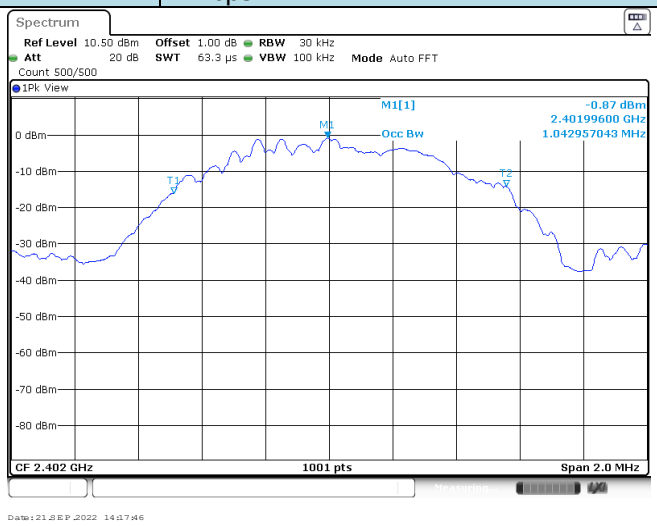
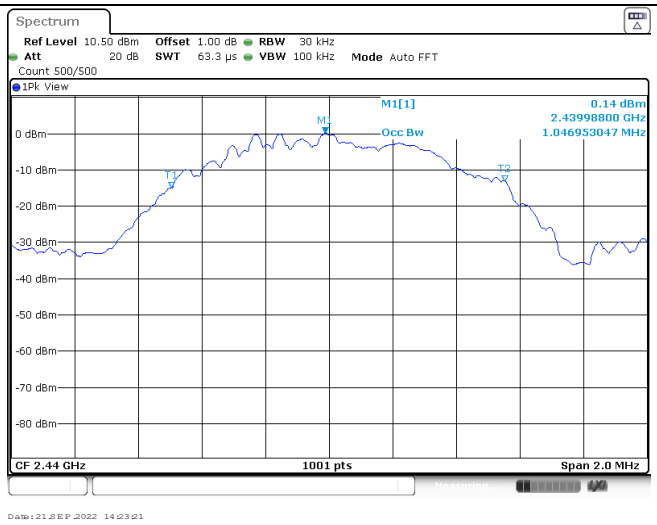
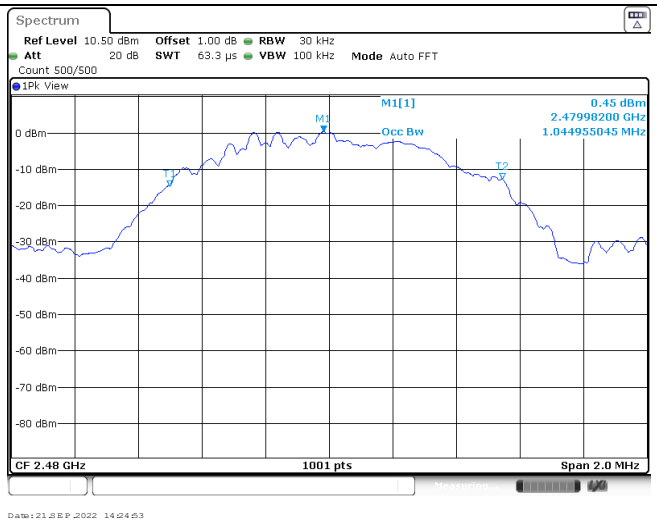
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	722.00	≥500	Pass
	19	726.00		
	39	722.00		
2Mbps	00	1275.00	≥500	Pass
	19	1280.00		
	39	1275.00		

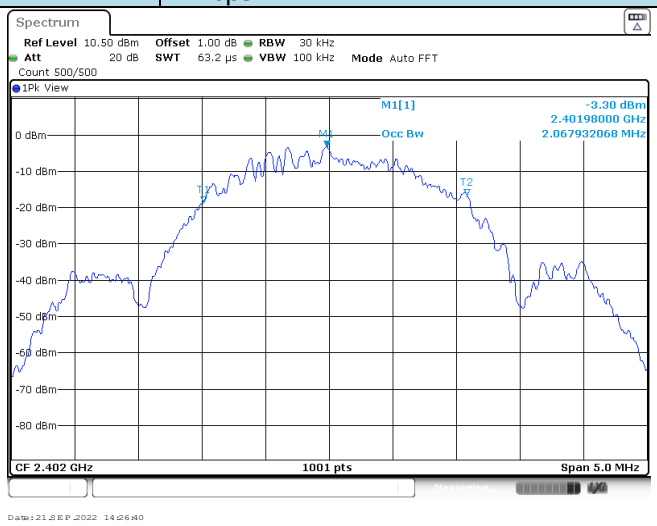
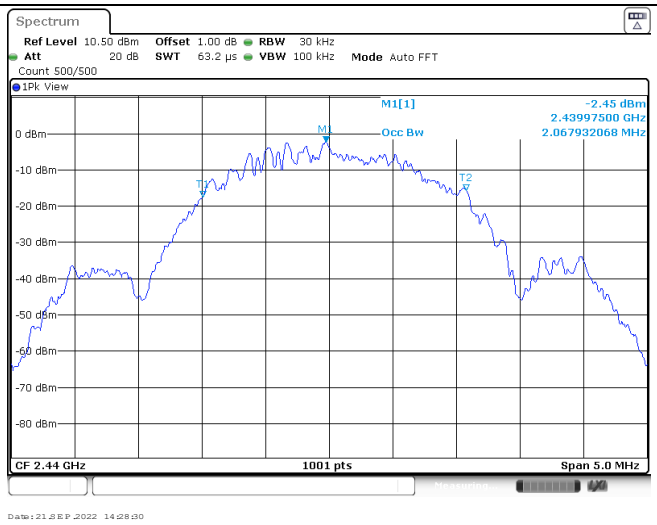
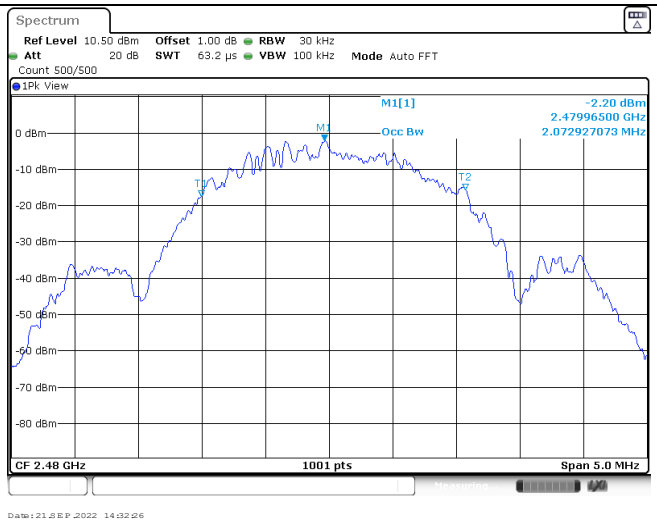
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix D：99% Occupied Bandwidth

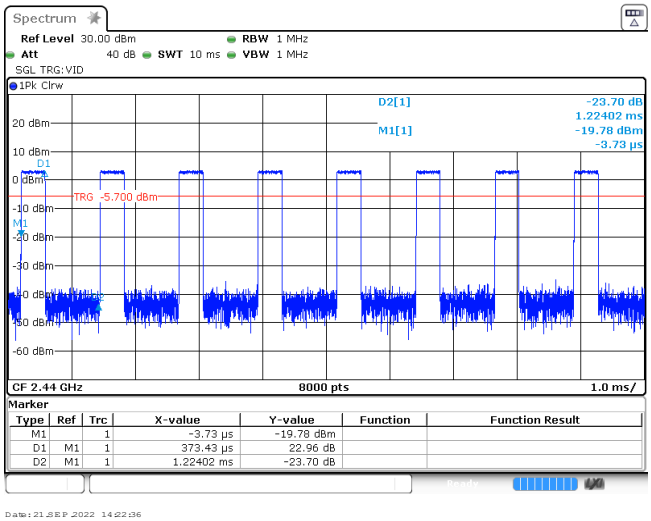
Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.04	-	Pass
	19	1.05		
	39	1.04		
2Mbps	00	2.07	-	Pass
	19	2.07		
	39	2.07		

Test rate:	1Mbps
CH00	
CH19	
CH39	

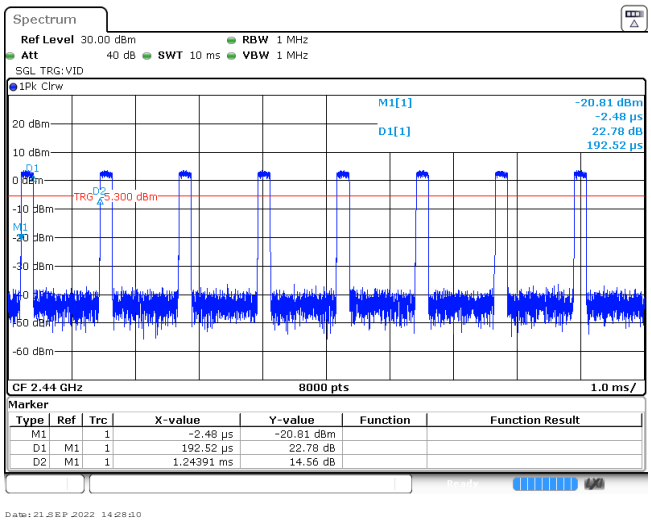
Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix E：Duty cycle

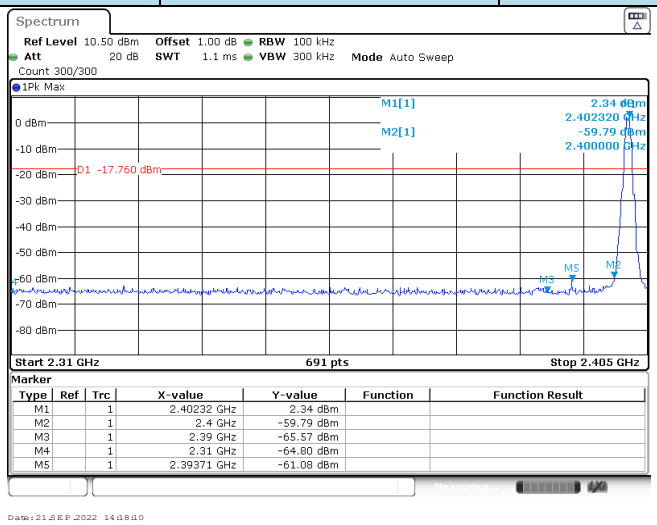
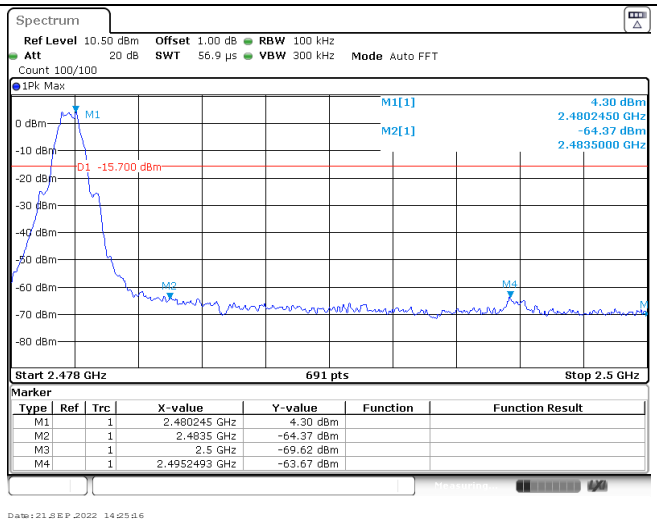
Test Rate:		1Mbps		
Test Frequency（MHz）	Ton time for single burst (ms)	Tperiod (ms)	Duty cycle	1/Ton time (kHz)
2440	0.37	1.22	30.3%	2.7

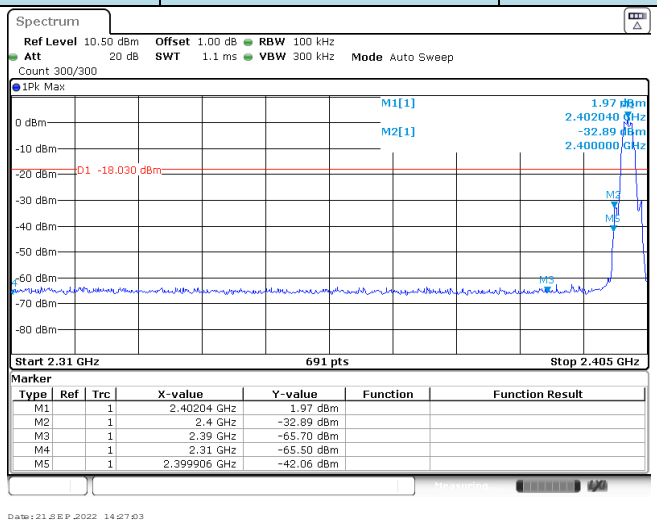
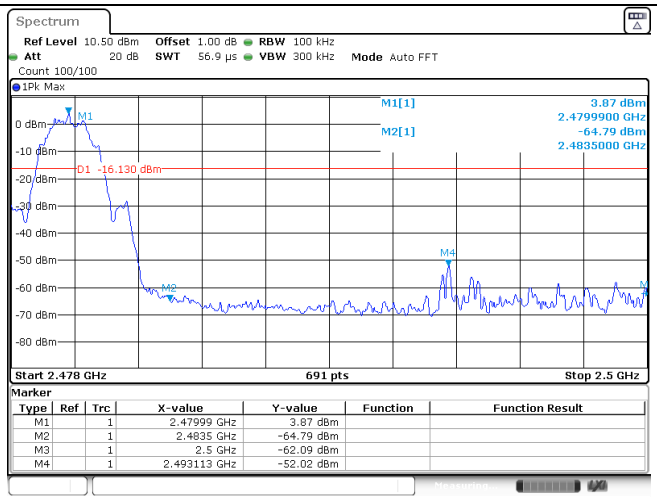


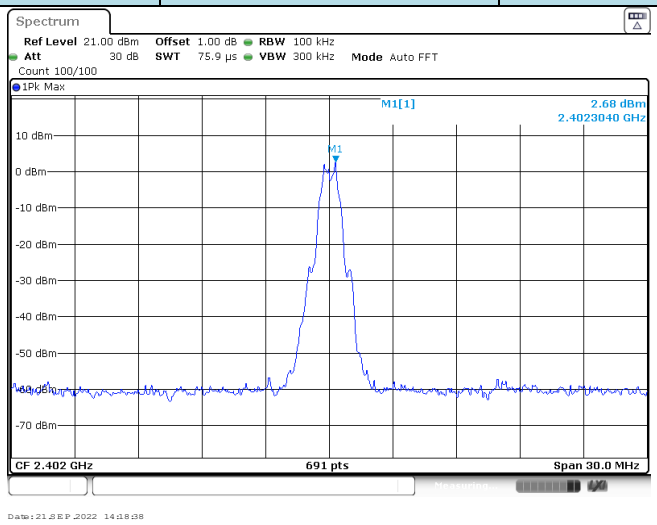
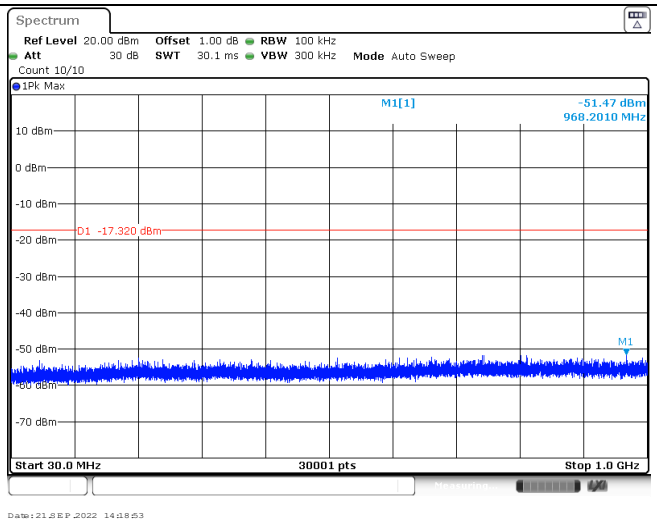
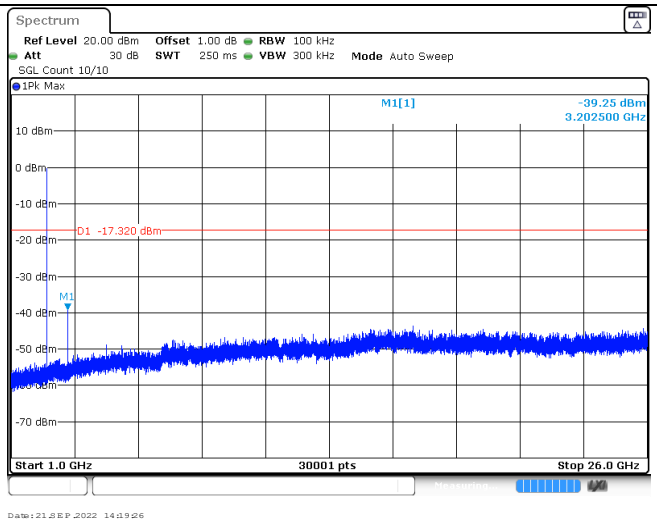
Test Rate:		2Mbps		
Test Frequency（MHz）	Ton time for single burst (ms)	Tperiod (ms)	Duty cycle	1/Ton time (kHz)
2440	0.19	1.24	15.3%	5.3

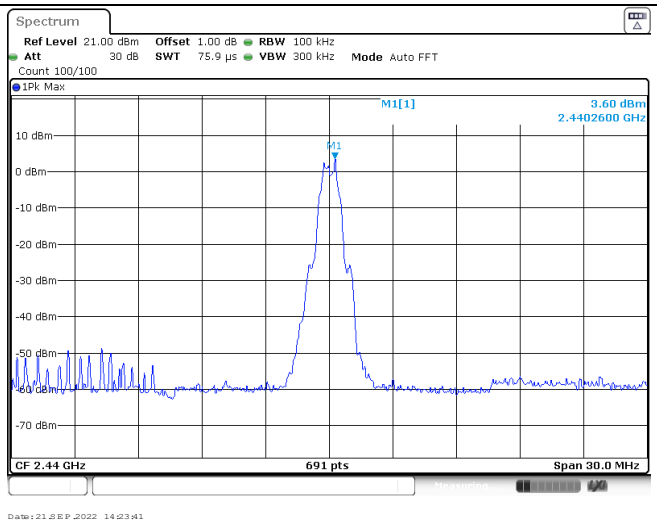
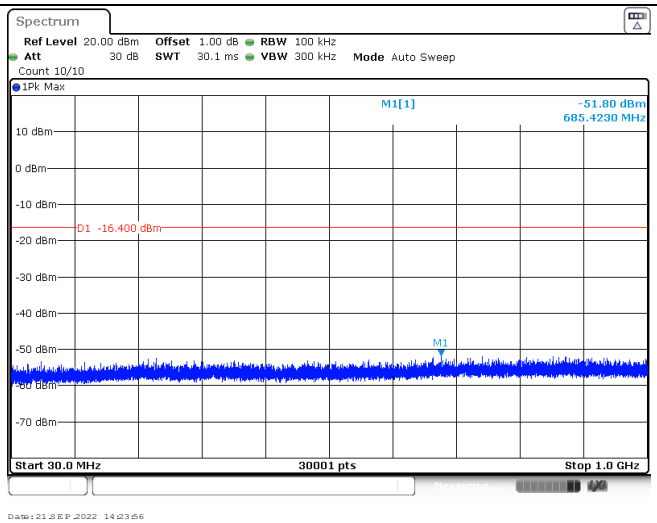
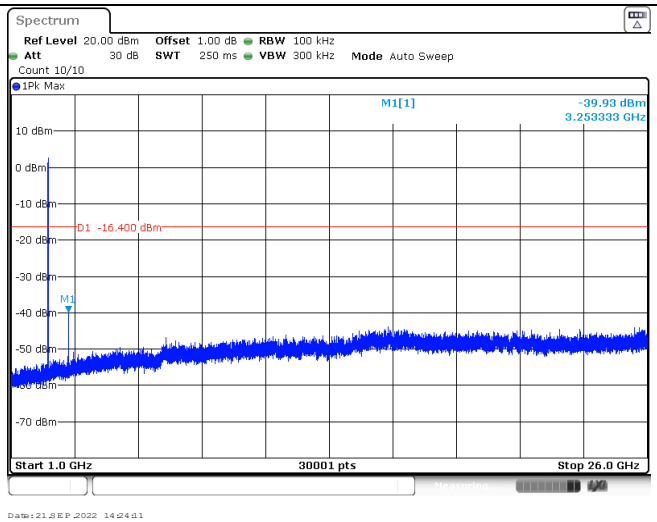


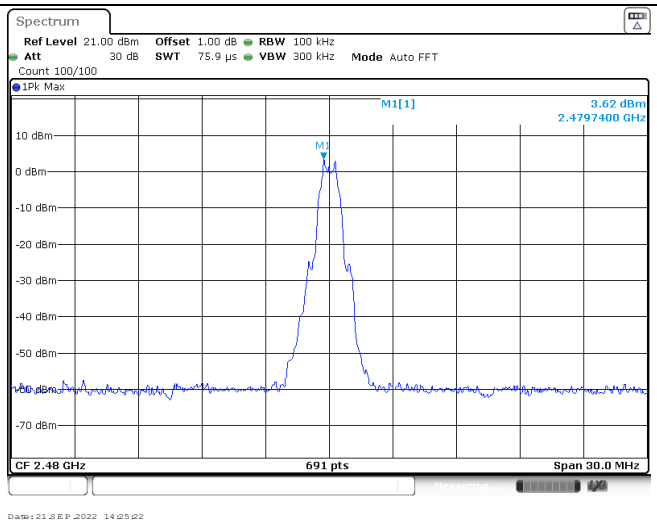
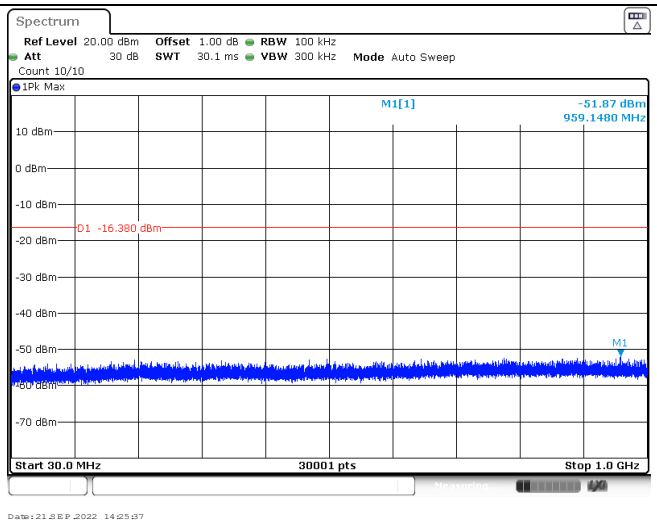
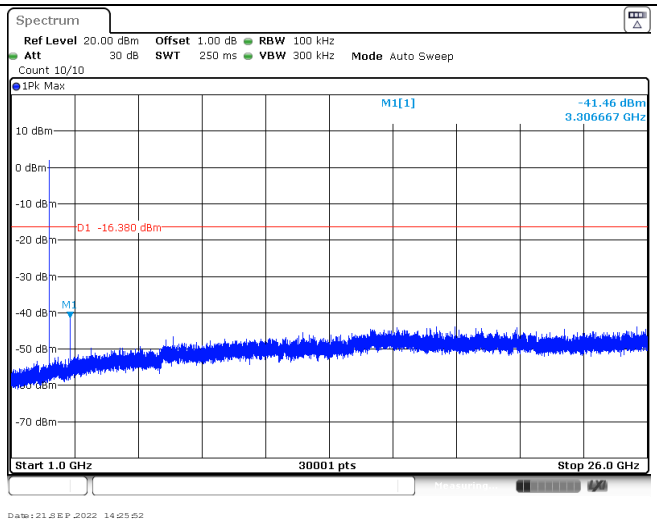
Appendix F：Band edge and Spurious Emissions (conducted)

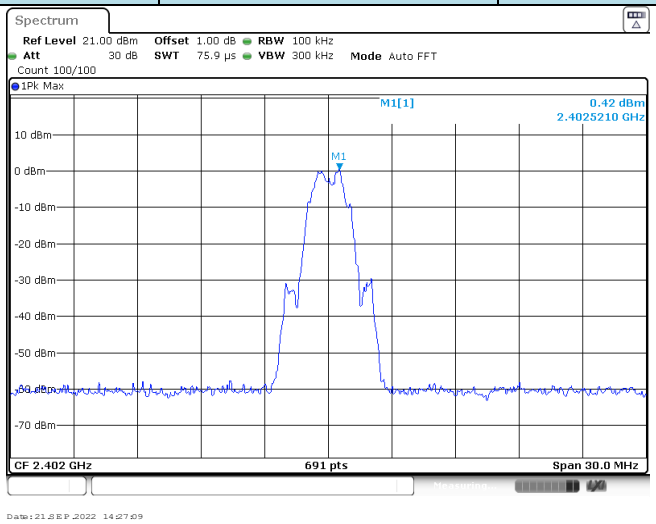
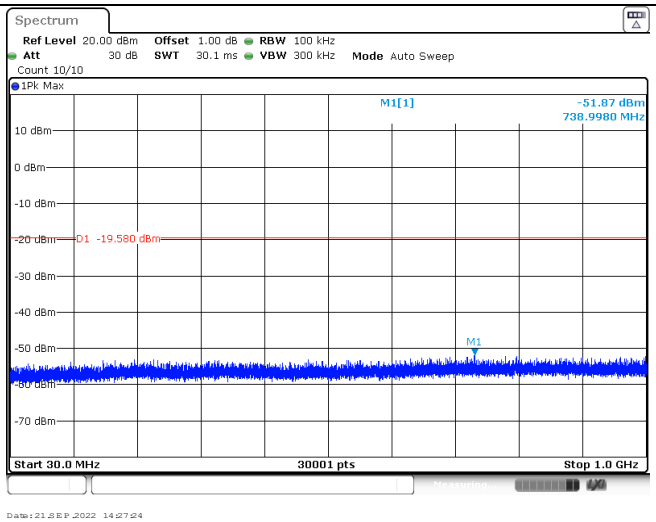
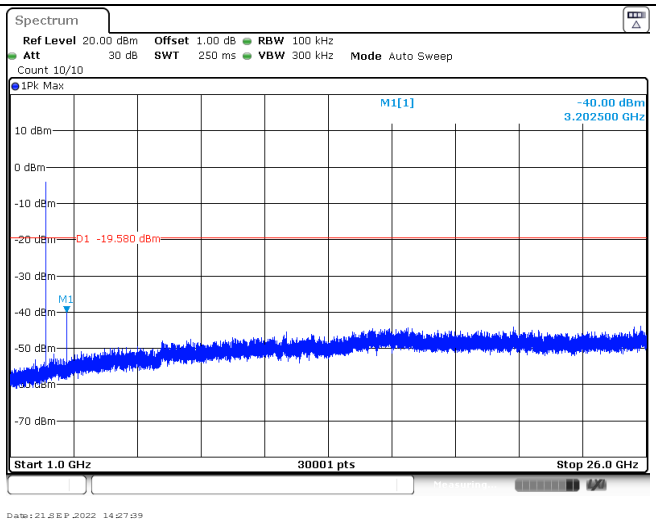
Test Item:	Band edge	Test Rate:	1Mbps
CH00			
CH39			

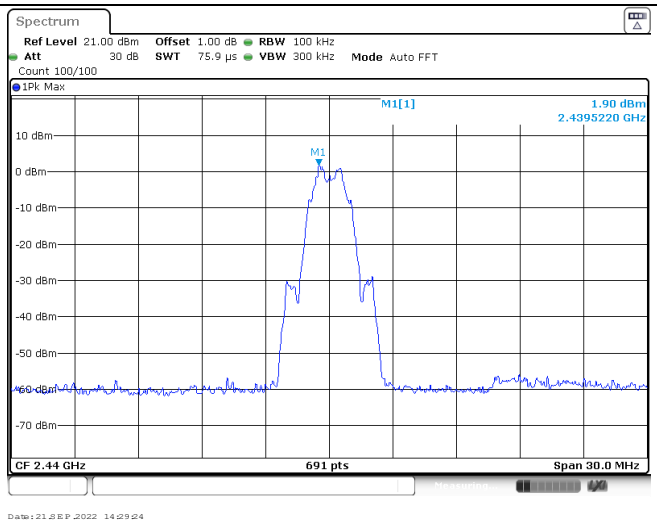
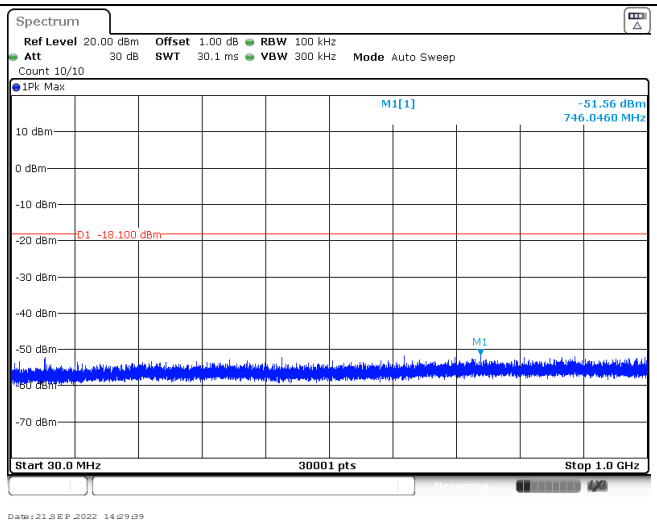
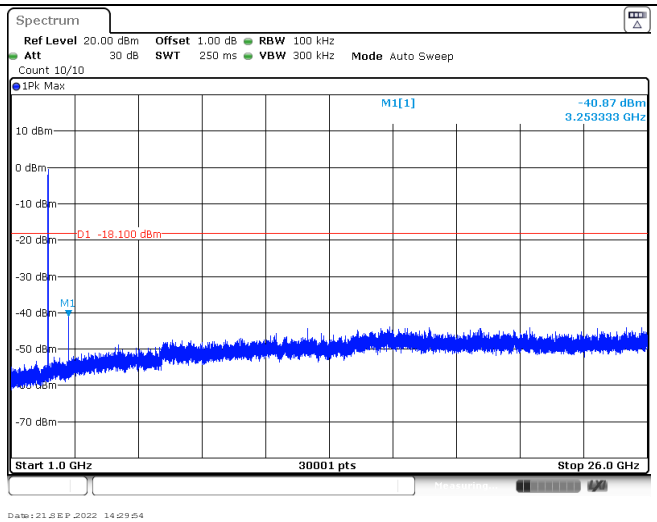
Test Item:	Band edge	Test Rate:	2Mbps
CH00			
CH39			

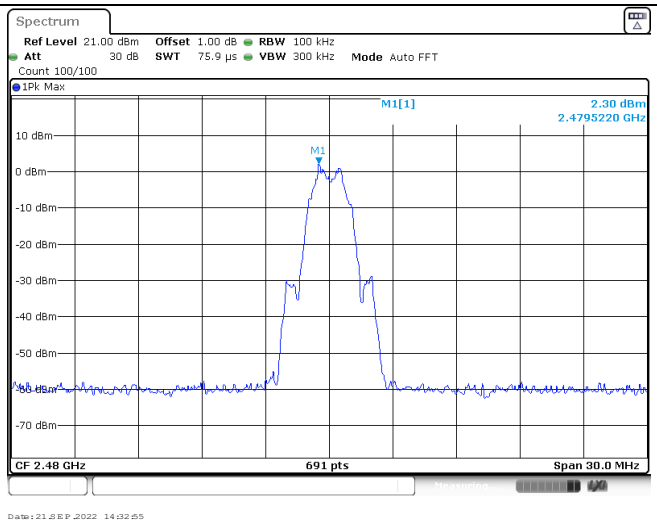
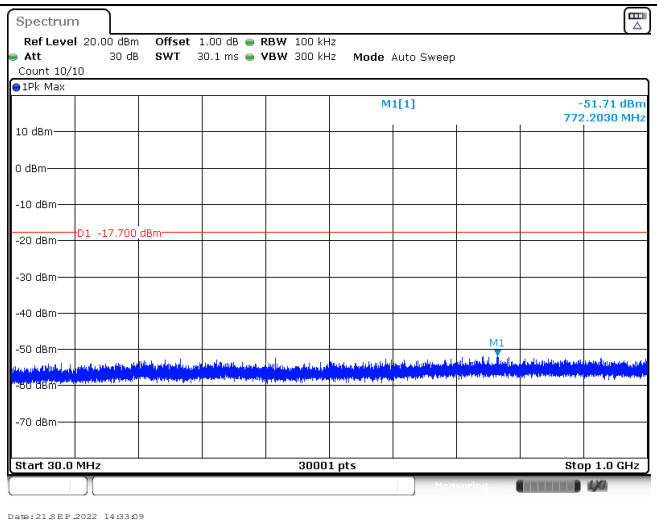
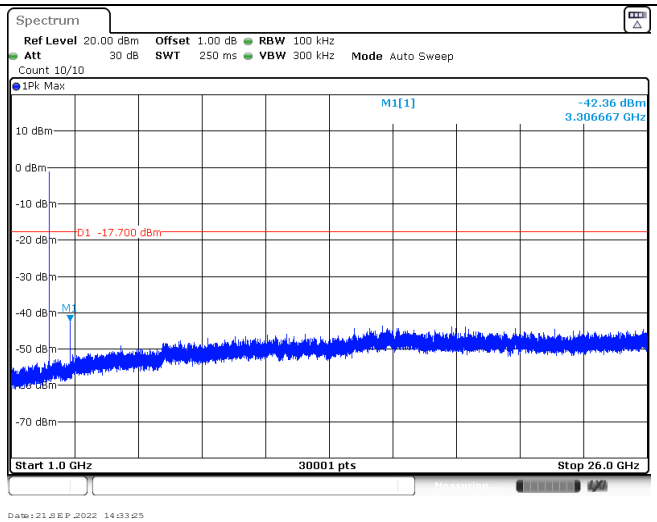
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

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	

--------End of Report--------